Air Toxics LTD.

Laboratory Services Since 1989

Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-11A

INVENTORY SHEET

Work Order #: 1012041B

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	12/16/10
(Signature)	(Print Name & Title)	(Date)

Air Toxics LTD.
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WORK ORDER #: 1012041B

Work Order Summary

CLIENT:	Mr. Brian Baker Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494	**BILL TO:**	Accounts Payable Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494
PHONE:	800-825-5343	**P.O. #**	17131
FAX:	781-247-4305	**PROJECT #**	17131
DATE RECEIVED:	12/02/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	12/15/2010		

FRACTION #	NAME	TEST
16A	116795	Modified TO-11A
17A	116796	Modified TO-11A
18A	116797	Modified TO-11A
19A	116798	Modified TO-11A
20A	116799	Modified TO-11A
21A	116811	Modified TO-11A
22A	116812	Modified TO-11A
23A	116813	Modified TO-11A
24A	116814	Modified TO-11A
25A	116815	Modified TO-11A
26A	116827	Modified TO-11A
27A	116828	Modified TO-11A
28A	116829	Modified TO-11A
29A	116830	Modified TO-11A
30A	116831	Modified TO-11A
31A	Lab Blank	Modified TO-11A
32A	LCS	Modified TO-11A

Continued on next page

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WORK ORDER #: 1012041B

Work Order Summary

CLIENT:	Mr. Brian Baker Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494	**BILL TO:**	Accounts Payable Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494
PHONE:	800-825-5343	**P.O. #**	17131
FAX:	781-247-4305	**PROJECT #**	17131
DATE RECEIVED:	12/02/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	12/15/2010		

FRACTION #	NAME	TEST
32AA	LCSD	Modified TO-11A

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 12/15/10

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

LABORATORY NARRATIVE
Modified TO-11A
Environmental Health & Engineering, Inc.
Workorder# 1012041B

Fifteen Radiello 165 (Aldehydes) samples were received on December 02, 2010. The laboratory performed analysis via modified Method TO-11A using reverse phase High Pressure Liquid Chromatography (HPLC) with an Ultraviolet (UV) Detector. The method involves eluting the sorbent tubes with acetonitrile using a gravity feed technique. Method modifications taken to run these samples include:

Requirement	***TO-11A***	***ATL Modifications***
ACN Purity Check	Contribution of analytes from ACN determined as described Sections 9.1.1 and 9.1.2 of Compendium TO-11A.	Total contribution of analytes from ACN and cartridge combined is determined.
Initial Calibration Curve (ICAL)	Multi-point using linear regression performed every 6 months; r^2 > 0.999	Multi-point using average Response Factor; % RSD </= 10 %. Re-calibration if daily cal. fails, major maintenance, or column change. Linear regression is performed when requested.
Blank Subtraction	Average blank concentrations calculated. Blank value subtracted from sample result.	One Lab Blank is analyzed per batch; no blank subtraction performed on samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Results were calculated based on 25 deg C without temperature correction. Sampling rates were provided by the manufacturer.

The exposure time for all samples exceeded the method recommended exposure time of 7 days.

The actual exposure time was used to calculate sample concentrations and reporting limits. An exposure time of 21000 minutes was used for the Laboratory Blank.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
116795	1012041B-16A	11/30/2010	12/ 2/2010	12/ 6/2010	6	12/ 8/2010	2	Good
116796	1012041B-17A	11/30/2010	12/ 2/2010	12/ 6/2010	6	12/ 8/2010	2	Good
116797	1012041B-18A	11/30/2010	12/ 2/2010	12/ 6/2010	6	12/ 8/2010	2	Good
116798	1012041B-19A	11/30/2010	12/ 2/2010	12/ 6/2010	6	12/ 7/2010	1	Good
116799	1012041B-20A	NA	12/ 2/2010	12/ 6/2010	NA	12/ 7/2010	1	Good
116811	1012041B-21A	11/30/2010	12/ 2/2010	12/ 6/2010	6	12/ 8/2010	2	Good
116812	1012041B-22A	11/30/2010	12/ 2/2010	12/ 6/2010	6	12/ 8/2010	2	Good
116813	1012041B-23A	11/30/2010	12/ 2/2010	12/ 6/2010	6	12/ 8/2010	2	Good
116814	1012041B-24A	11/30/2010	12/ 2/2010	12/ 6/2010	6	12/ 7/2010	1	Good
116815	1012041B-25A	NA	12/ 2/2010	12/ 6/2010	NA	12/ 7/2010	1	Good
116827	1012041B-26A	11/30/2010	12/ 2/2010	12/ 6/2010	6	12/ 8/2010	2	Good
116828	1012041B-27A	11/30/2010	12/ 2/2010	12/ 6/2010	6	12/ 8/2010	2	Good
116829	1012041B-28A	11/30/2010	12/ 2/2010	12/ 6/2010	6	12/ 8/2010	2	Good
116830	1012041B-29A	11/30/2010	12/ 2/2010	12/ 6/2010	6	12/ 8/2010	2	Good
116831	1012041B-30A	NA	12/ 2/2010	12/ 6/2010	NA	12/ 8/2010	2	Good
Lab Blank	1012041B-31A	NA	NA	12/ 6/2010	NA	12/ 7/2010	1	Good
LCS	1012041B-32A	NA	NA	12/ 6/2010	NA	12/ 7/2010	1	Good
LCSD	1012041B-32AA	NA	NA	12/ 6/2010	NA	12/ 7/2010	1	Good

Sample Results and Raw Data

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116795

Lab ID#: 1012041B-16A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	56	28

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Client Sample ID: 116795

Lab ID#: 1012041B-16A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207056**	**Date of Collection: 11/30/10**
Dil. Factor:	**10.0**	**Date of Analysis: 12/8/10 05:01 AM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	56	28

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207056.d
Lab Smp Id: 1012041B-16A Client Smp ID: 10
Inj Date : 08-DEC-2010 05:01
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-16A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.935	2.941	-0.006	2984294		
2 FORMALDEHYDE	3.742	3.694	0.048	1542362	14.0888	56.4

Data File: /chem/hplcf.i/07Dec2010.b/f1207056.d

Date : 08-DEC-2010 05:01

Client ID: 10

Instrument: hplcf.i

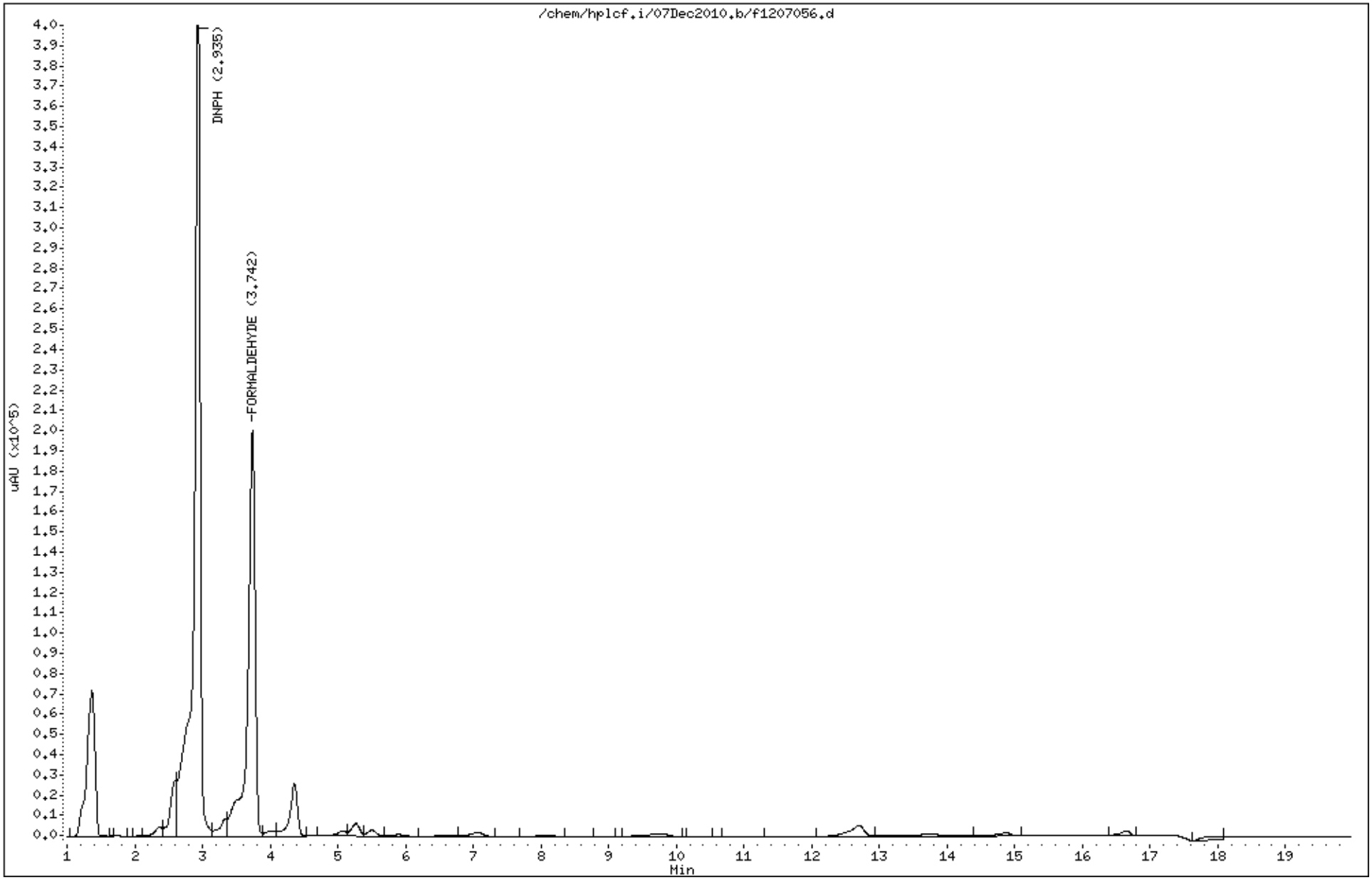
Sample Info: ;1012041B-16A;10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116796

Lab ID#: 1012041B-17A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	58	29

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Client Sample ID: 116796

Lab ID#: 1012041B-17A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207057**	**Date of Collection: 11/30/10**
Dil. Factor:	**10.0**	**Date of Analysis: 12/8/10 05:22 AM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	58	29

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/07Dec2010.b/f1207057.d
Lab Smp Id: 1012041B-17A Client Smp ID: 10
Inj Date : 08-DEC-2010 05:22
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-17A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.934	2.941	-0.007	2678296		
2 FORMALDEHYDE	3.734	3.694	0.040	1594990	14.5695	58.3

Data File: /chem/hplcf.i/07Dec2010.b/f1207057.d

Date : 08-DEC-2010 05:22

Client ID: 10

Instrument: hplcf.i

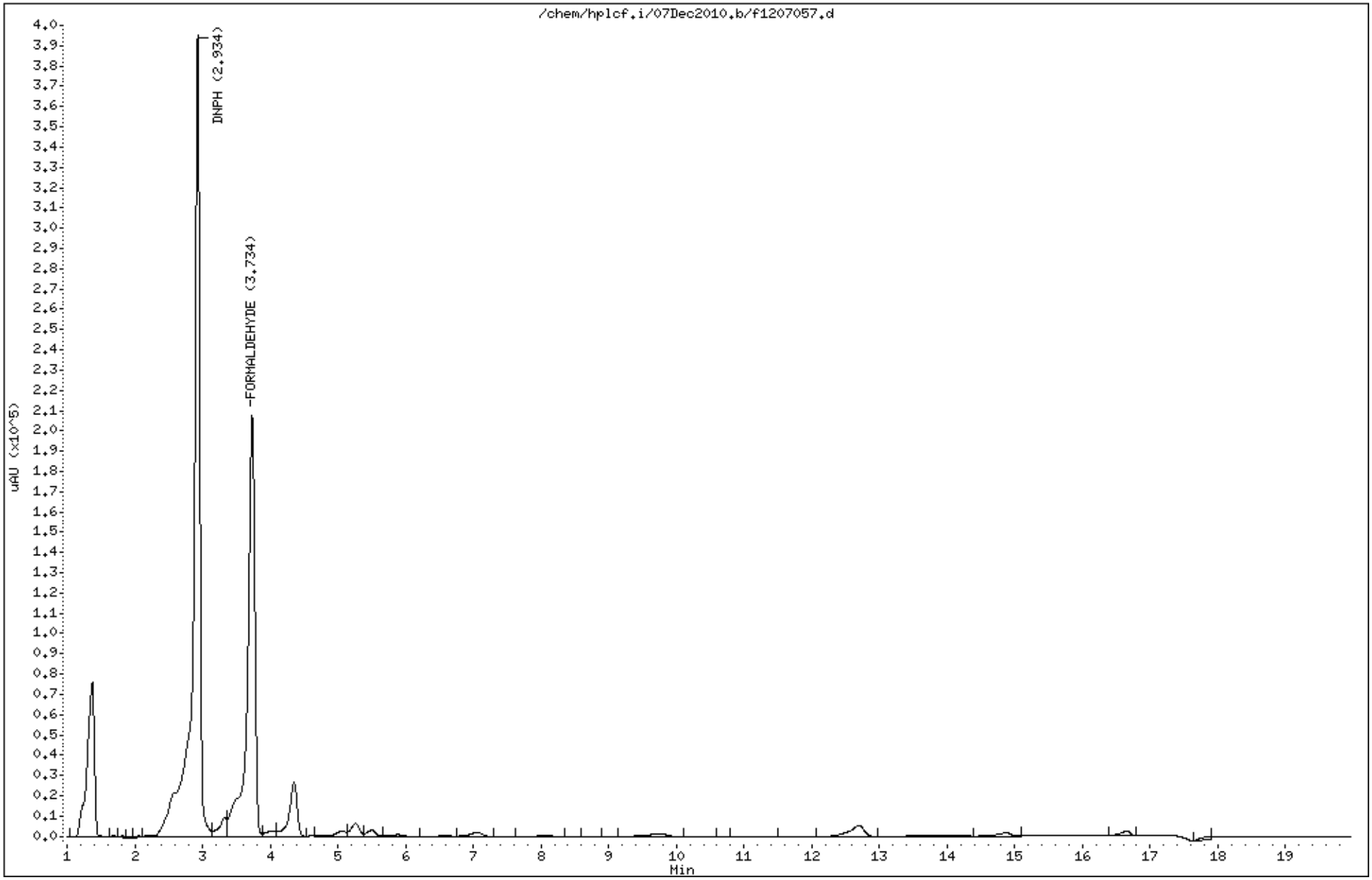
Sample Info: ;1012041B-17A;10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116797

Lab ID#: 1012041B-18A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	59	29

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Client Sample ID: 116797

Lab ID#: 1012041B-18A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207058**	**Date of Collection: 11/30/10**
Dil. Factor:	**10.0**	**Date of Analysis: 12/8/10 05:43 AM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	59	29

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207058.d
Lab Smp Id: 1012041B-18A Client Smp ID: 10
Inj Date : 08-DEC-2010 05:43
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-18A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.933	2.941	-0.008	2954215		
2 FORMALDEHYDE	3.740	3.694	0.046	1610103	14.7076	58.8

Data File: /chem/hplcf.i/07Dec2010.b/f1207058.d

Date : 08-DEC-2010 05:43

Client ID: 10

Instrument: hplcf.i

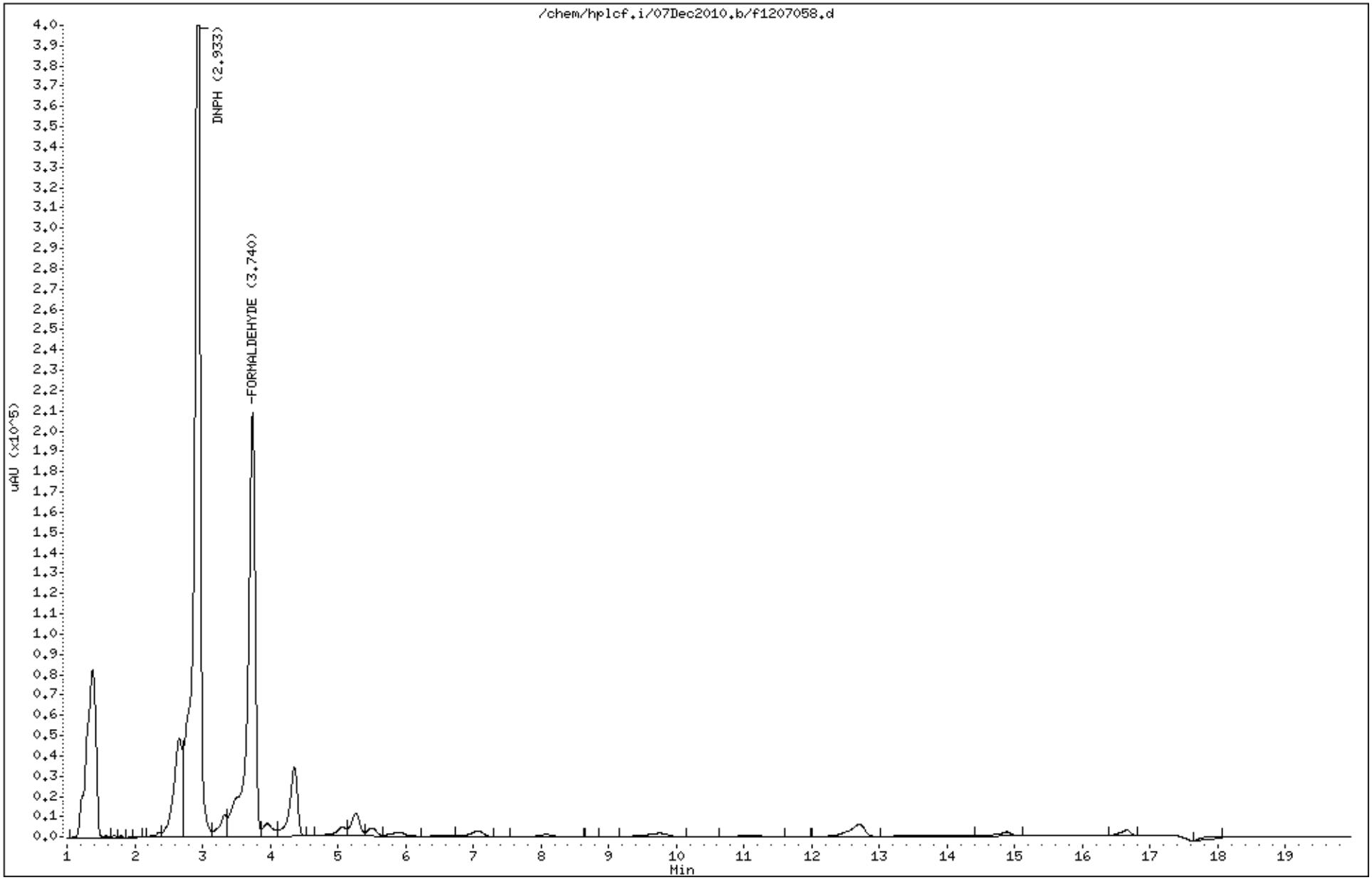
Sample Info: ;1012041B-18A;10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116798

Lab ID#: 1012041B-19A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	1.8	0.89

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Client Sample ID: 116798

Lab ID#: 1012041B-19A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207038**	**Date of Collection: 11/30/10**
Dil. Factor:	**1.00**	**Date of Analysis: 12/7/10 10:45 PM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	1.8	0.89

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/07Dec2010.b/f1207038.d
Lab Smp Id: 1012041B-19A
Inj Date : 07-DEC-2010 22:45
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-19A;
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.938	2.941	-0.003	21017566		
2 FORMALDEHYDE	3.745	3.694	0.051	487209	4.45045	1.78

Data File: /chem/hplcf.i/07Dec2010.b/f1207038.d

Date : 07-DEC-2010 22:45

Client ID:

Instrument: hplcf.i

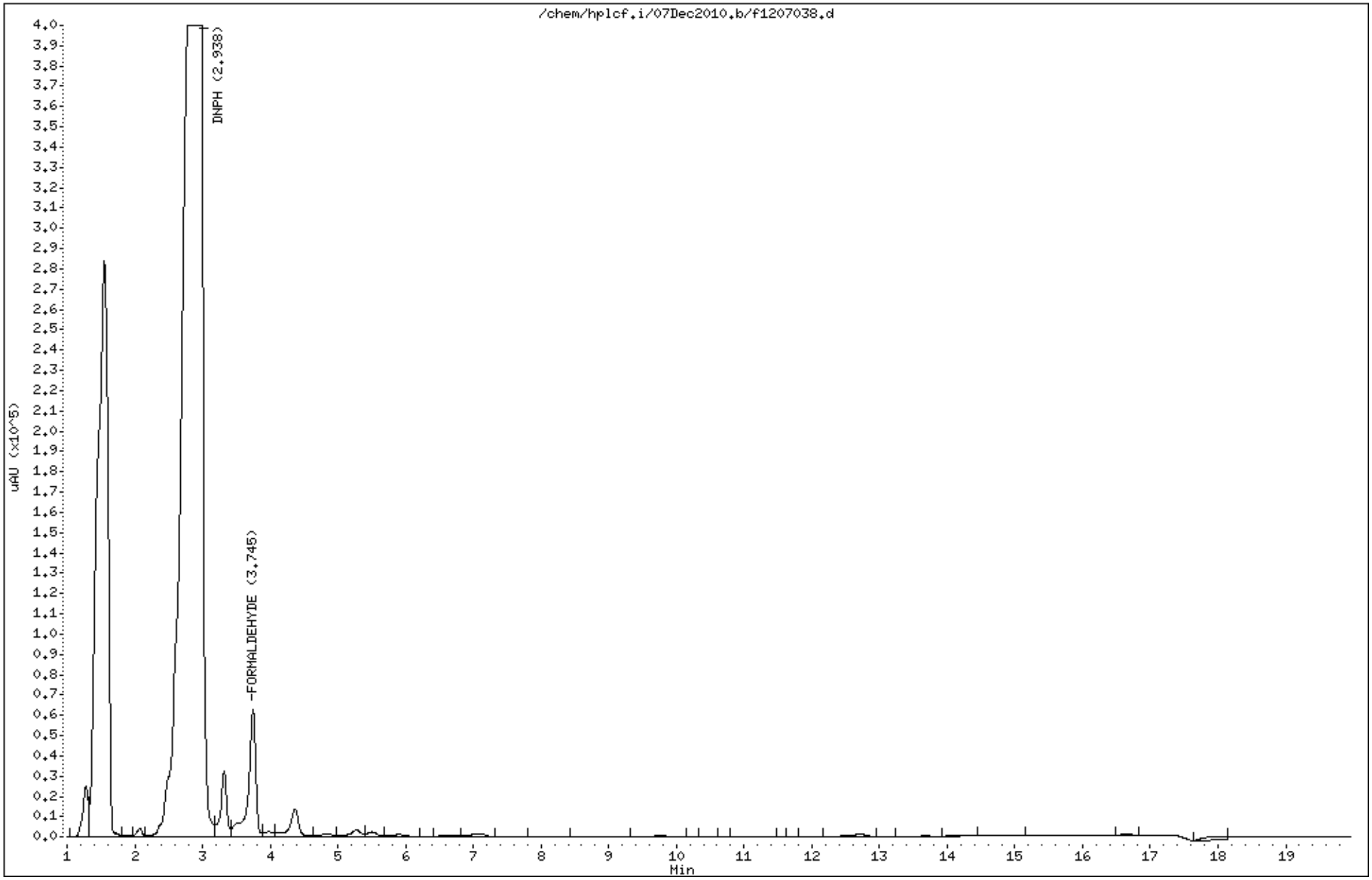
Sample Info: ;1012041B-19A;

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116799

Lab ID#: 1012041B-20A

No Detections Were Found.

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Client Sample ID: 116799

Lab ID#: 1012041B-20A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207039**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/7/10 11:06 PM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.48	Not Detected	Not Detected

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/07Dec2010.b/f1207039.d
Lab Smp Id: 1012041B-20A
Inj Date : 07-DEC-2010 23:06
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-20A;
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.943	2.941	0.002	32523628		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/07Dec2010.b/f1207039.d

Date : 07-DEC-2010 23:06

Client ID:

Instrument: hplcf.i

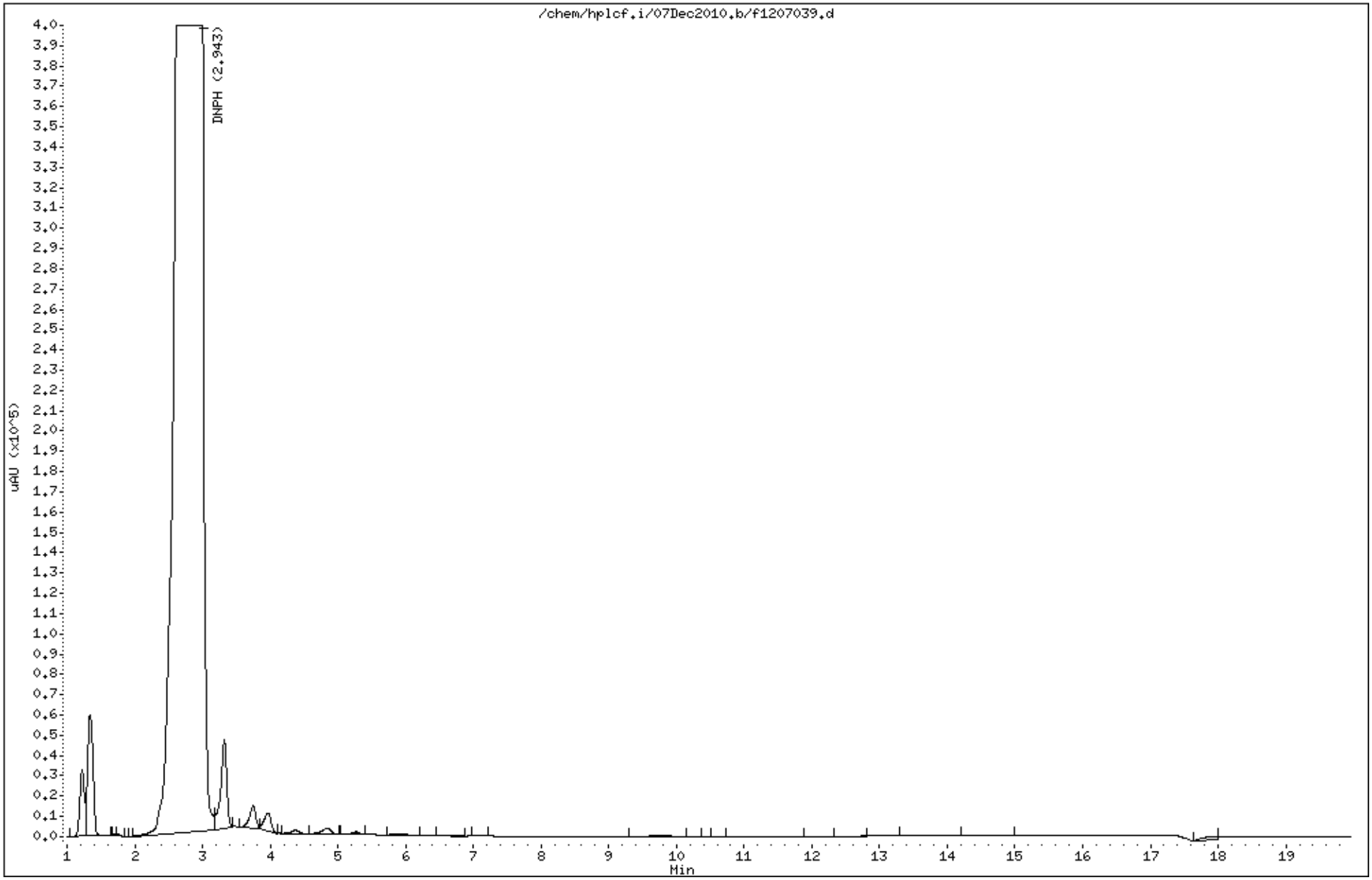
Sample Info: ;1012041B-20A;

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116811

Lab ID#: 1012041B-21A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	75	38

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 116811

Lab ID#: 1012041B-21A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207059**	**Date of Collection: 11/30/10**
Dil. Factor:	**10.0**	**Date of Analysis: 12/8/10 06:04 AM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	75	38

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207059.d
Lab Smp Id: 1012041B-21A Client Smp ID: 10
Inj Date : 08-DEC-2010 06:04
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-21A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.935	2.941	-0.006	2371341		
2 FORMALDEHYDE	3.741	3.694	0.047	2064160	18.8552	75.4

Data File: /chem/hplcf.i/07Dec2010.b/f1207059.d

Date : 08-DEC-2010 06:04

Client ID: 10

Instrument: hplcf.i

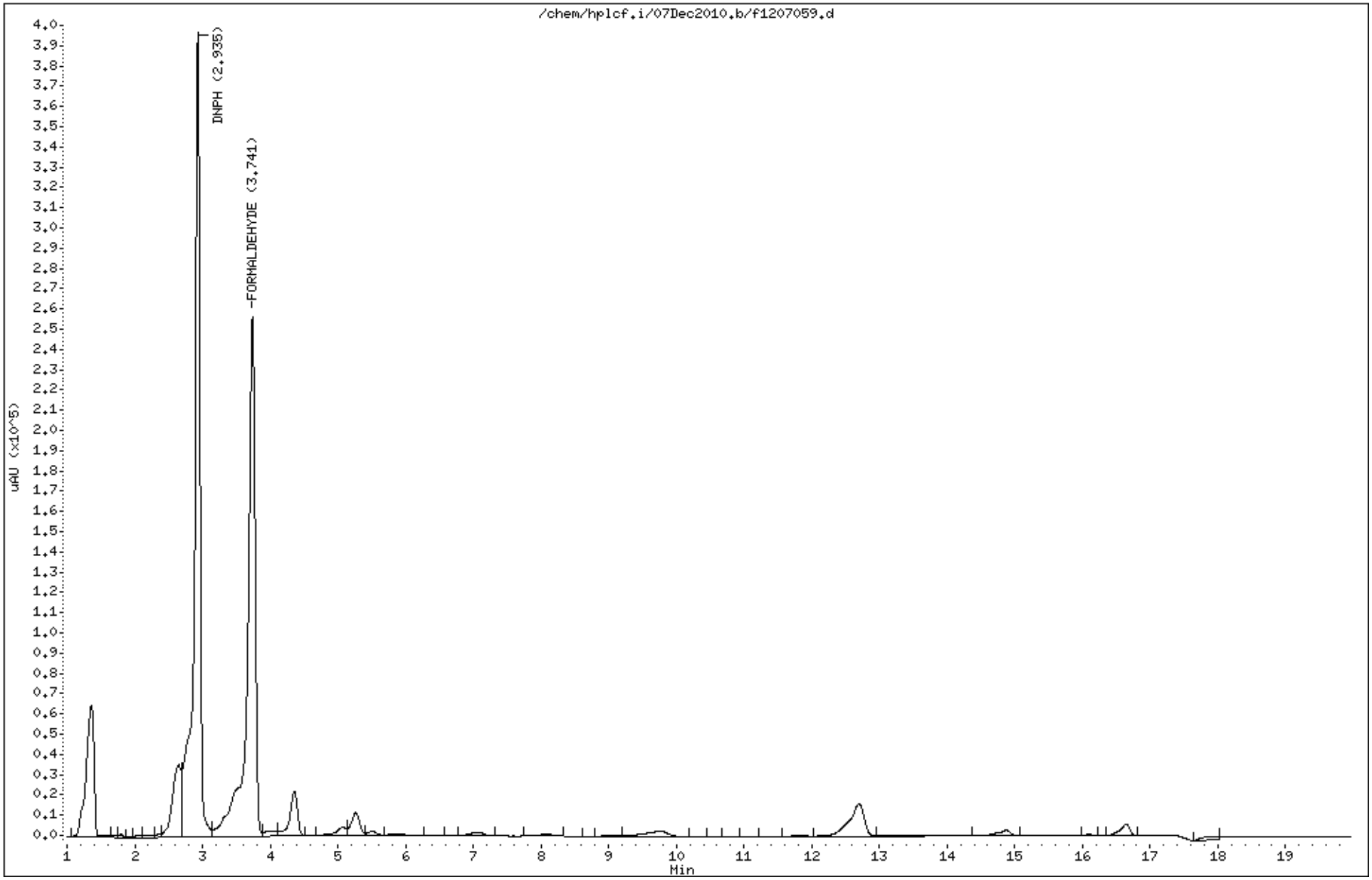
Sample Info: ;1012041B-21A;10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116812

Lab ID#: 1012041B-22A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	62	31

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 116812

Lab ID#: 1012041B-22A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207060**	**Date of Collection: 11/30/10**
Dil. Factor:	**10.0**	**Date of Analysis: 12/8/10 06:25 AM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	62	31

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/07Dec2010.b/f1207060.d
Lab Smp Id: 1012041B-22A Client Smp ID: 10
Inj Date : 08-DEC-2010 06:25
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-22A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.937	2.941	-0.004	2454154		
2 FORMALDEHYDE	3.737	3.694	0.043	1686302	15.4036	61.6

Data File: /chem/hplcf.i/07Dec2010.b/f1207060.d

Date : 08-DEC-2010 06:25

Client ID: 10

Instrument: hplcf.i

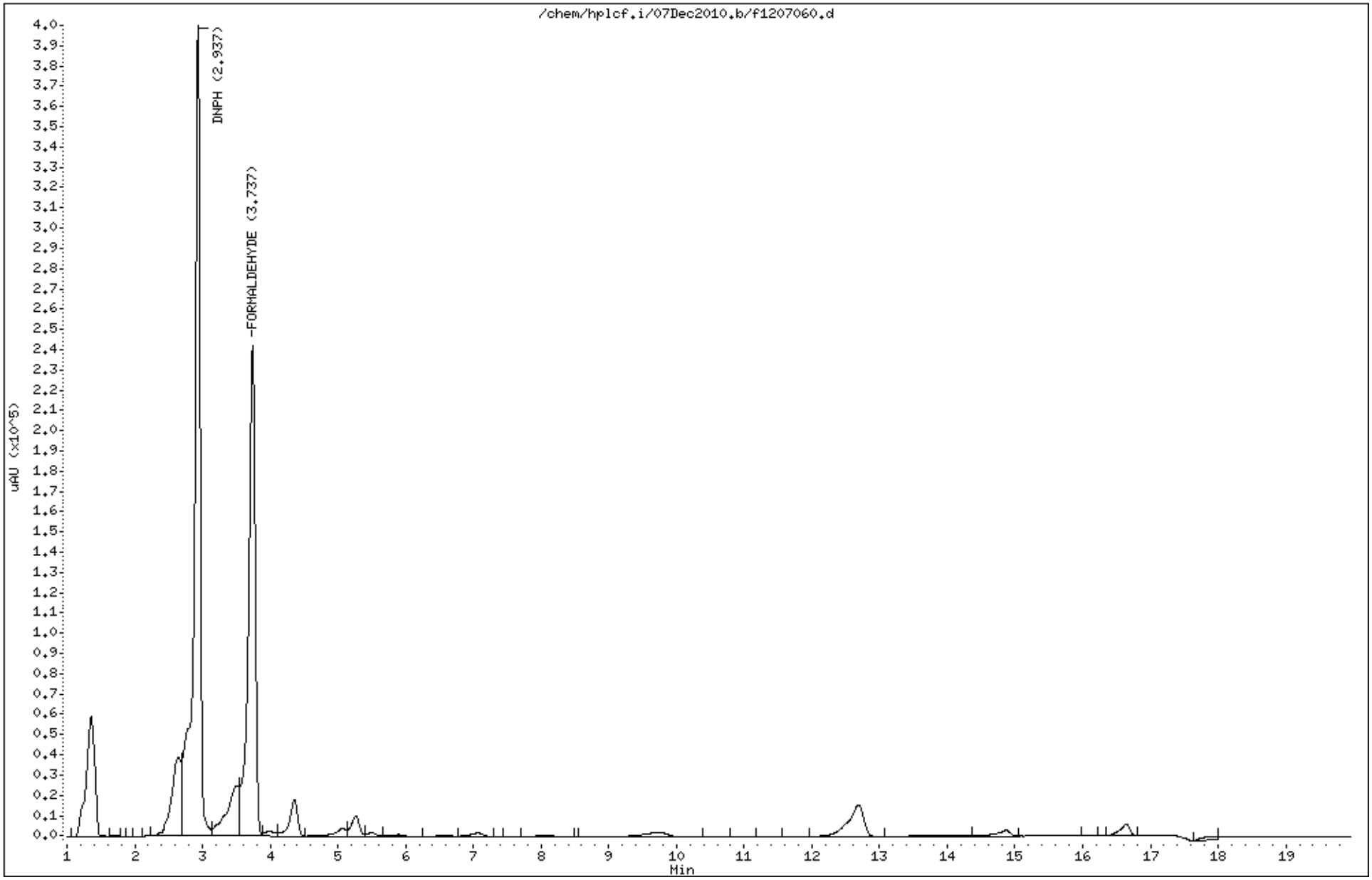
Sample Info: ;1012041B-22A;10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116813

Lab ID#: 1012041B-23A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	72	36

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 116813

Lab ID#: 1012041B-23A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207064**	**Date of Collection: 11/30/10**
Dil. Factor:	**10.0**	**Date of Analysis: 12/8/10 07:49 AM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	72	36

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207064.d
Lab Smp Id: 1012041B-23A Client Smp ID: 10
Inj Date : 08-DEC-2010 07:49
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-23A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.930	2.941	-0.011	2229092		
2 FORMALDEHYDE	3.737	3.694	0.043	1960145	17.9051	71.6

Data File: /chem/hplcf.i/07Dec2010.b/f1207064.d

Date : 08-DEC-2010 07:49

Client ID: 10

Instrument: hplcf.i

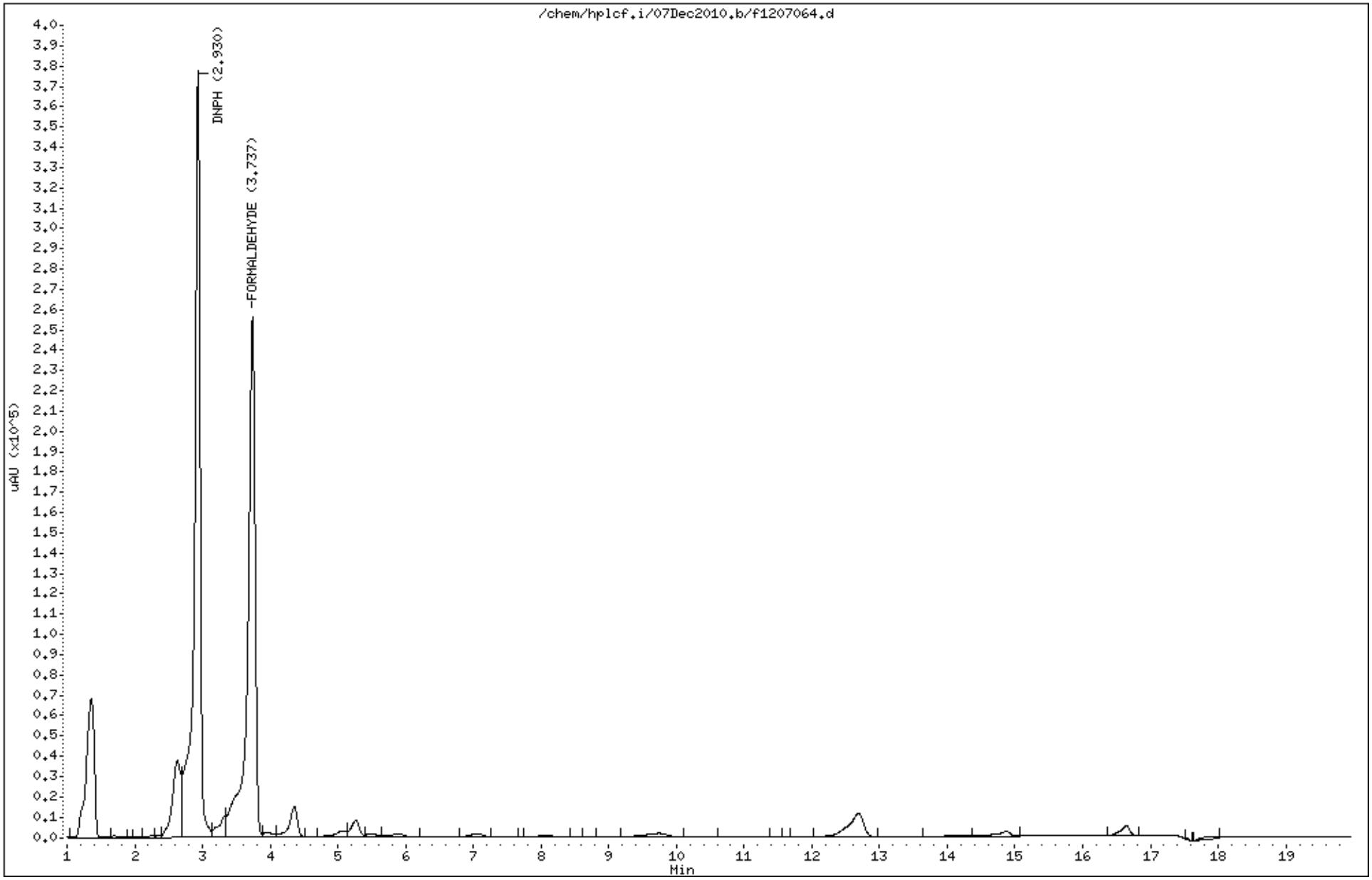
Sample Info: ;1012041B-23A;10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116814

Lab ID#: 1012041B-24A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	1.6	0.78

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 116814

Lab ID#: 1012041B-24A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207040**	**Date of Collection: 11/30/10**
Dil. Factor:	**1.00**	**Date of Analysis: 12/7/10 11:27 PM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	1.6	0.78

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/07Dec2010.b/f1207040.d
Lab Smp Id: 1012041B-24A
Inj Date : 07-DEC-2010 23:27
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-24A;
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.938	2.941	-0.003	20604977		
2 FORMALDEHYDE	3.745	3.694	0.051	424920	3.88146	1.55

Data File: /chem/hplcf.i/07Dec2010.b/f1207040.d

Date : 07-DEC-2010 23:27

Client ID:

Instrument: hplcf.i

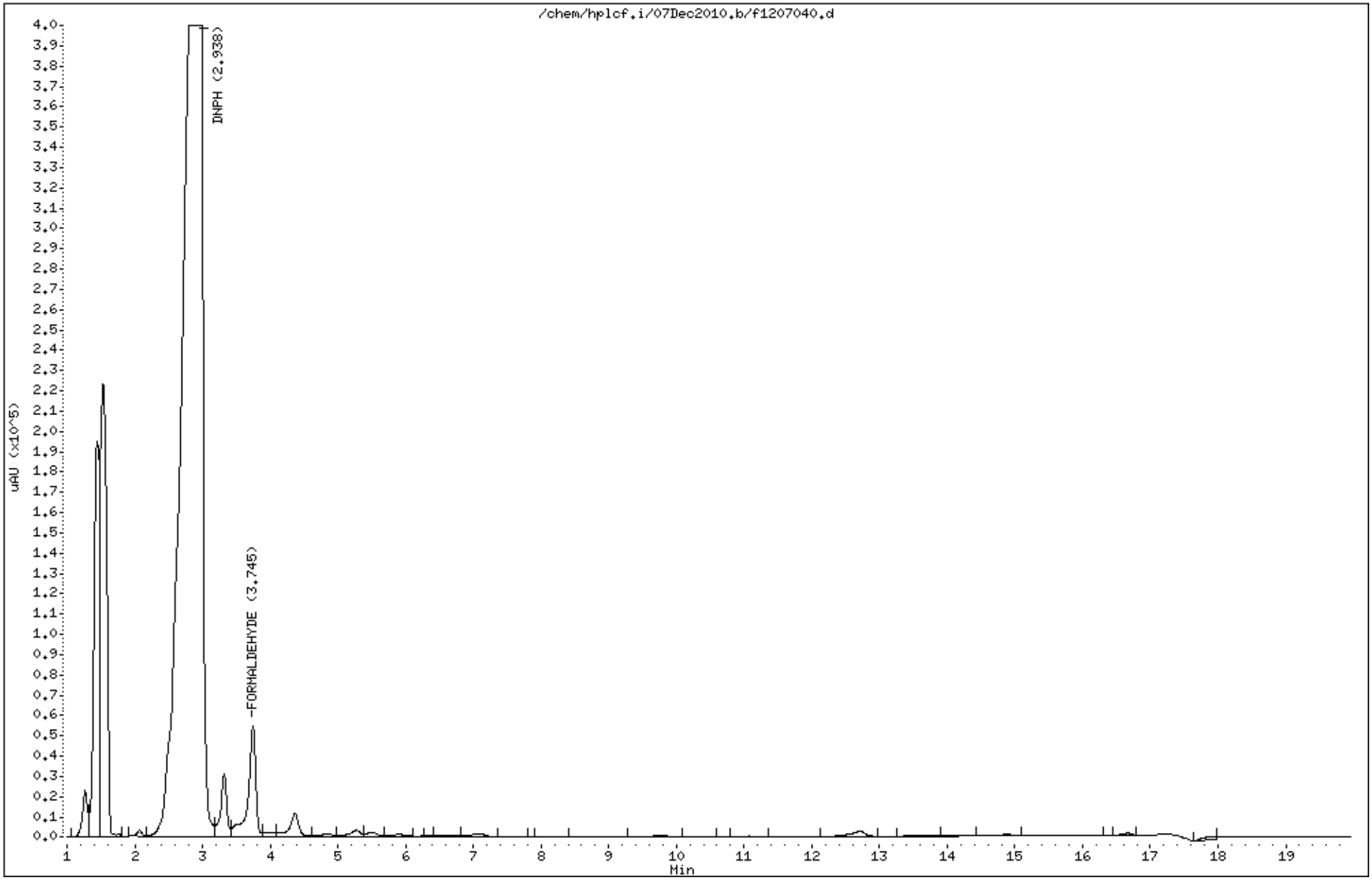
Sample Info: ;1012041B-24A;

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116815

Lab ID#: 1012041B-25A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 116815

Lab ID#: 1012041B-25A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207041**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/7/10 11:48 PM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.48	Not Detected	Not Detected

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/07Dec2010.b/f1207041.d
Lab Smp Id: 1012041B-25A
Inj Date : 07-DEC-2010 23:48
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-25A;
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.941	2.941	0.000	21571352		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/07Dec2010.b/f1207041.d

Page 1

Date : 07-DEC-2010 23:48

Client ID:

Instrument: hplcf.i

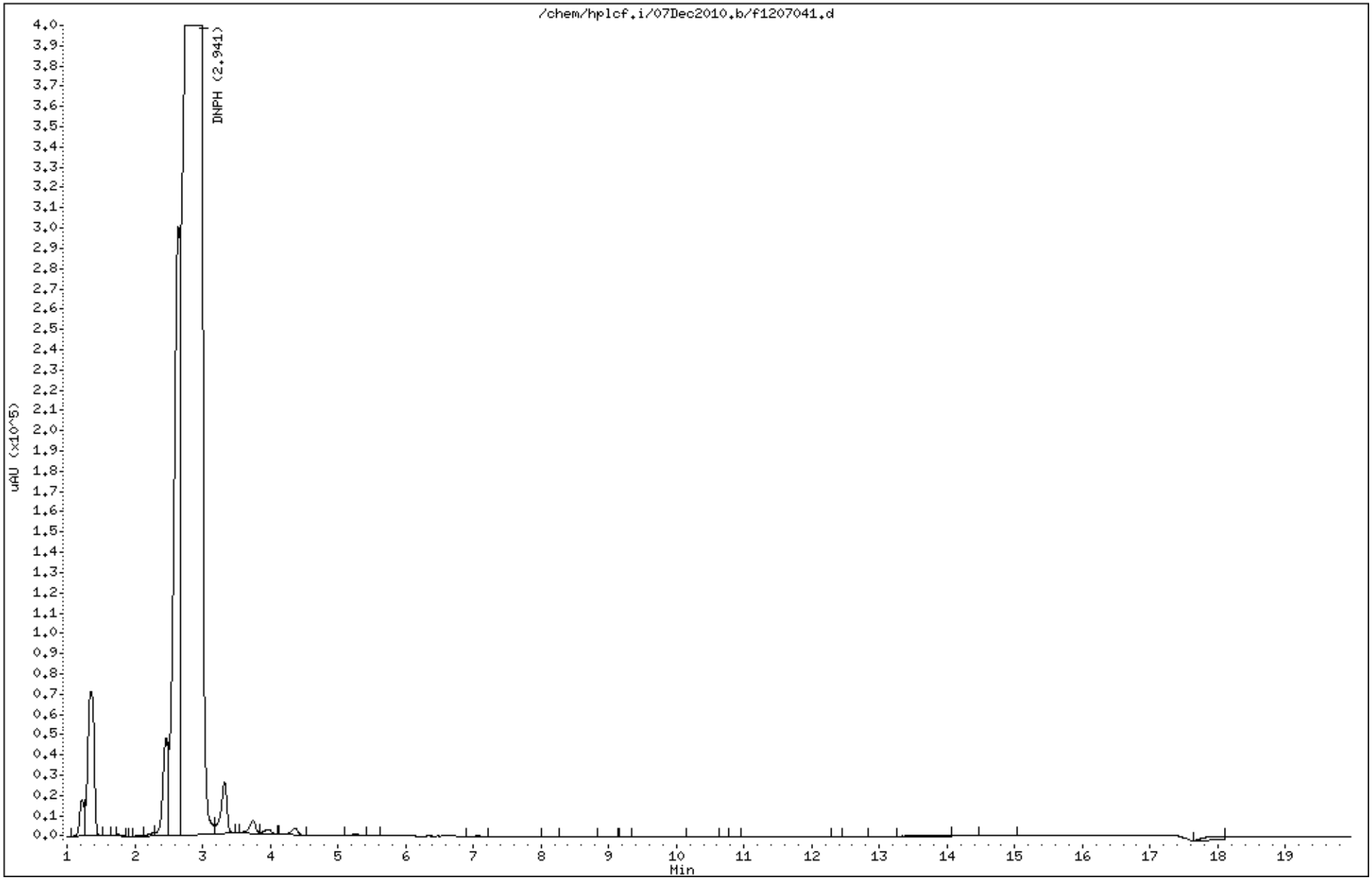
Sample Info: ;1012041B-25A;

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116827

Lab ID#: 1012041B-26A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	150	76

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 116827

Lab ID#: 1012041B-26A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207065**	**Date of Collection: 11/30/10**
Dil. Factor:	**10.0**	**Date of Analysis: 12/8/10 08:09 AM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	150	76

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207065.d
Lab Smp Id: 1012041B-26A Client Smp ID: 10
Inj Date : 08-DEC-2010 08:09
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-26A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.934	2.941	-0.007	1019507		
2 FORMALDEHYDE	3.741	3.694	0.047	4124547	37.6759	151

Data File: /chem/hplcf.i/07Dec2010.b/f1207065.d

Date : 08-DEC-2010 08:09

Client ID: 10

Instrument: hplcf.i

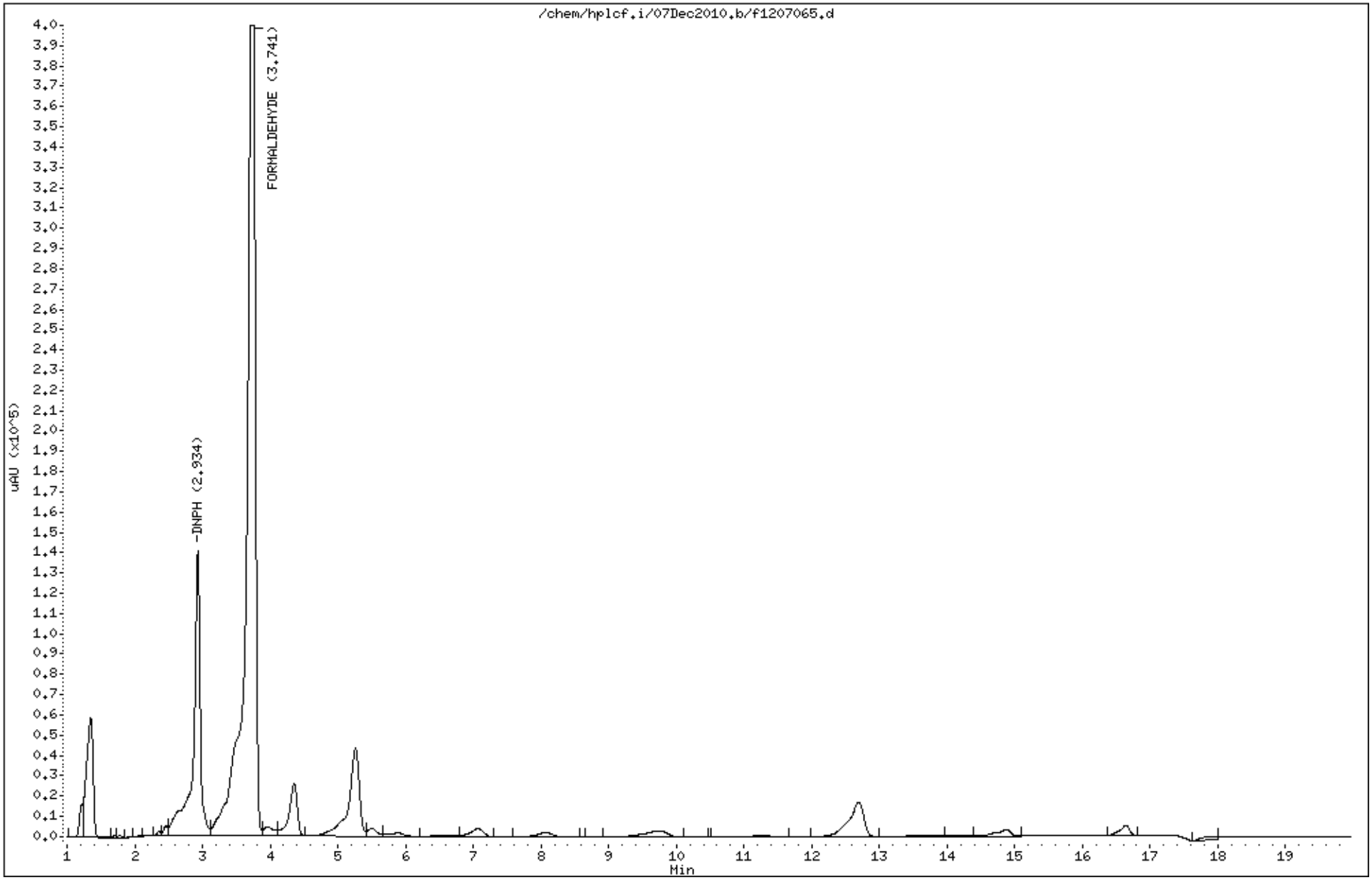
Sample Info: ;1012041B-26A;10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116828

Lab ID#: 1012041B-27A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	140	73

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 116828

Lab ID#: 1012041B-27A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207066**	**Date of Collection: 11/30/10**
Dil. Factor:	**10.0**	**Date of Analysis: 12/8/10 08:30 AM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	140	73

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207066.d
Lab Smp Id: 1012041B-27A Client Smp ID: 10
Inj Date : 08-DEC-2010 08:30
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-27A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.933	2.941	-0.008	980564		
2 FORMALDEHYDE	3.733	3.694	0.039	3965334	36.2216	145

Data File: /chem/hplcf.i/07Dec2010.b/f1207066.d

Date : 08-DEC-2010 08:30

Client ID: 10

Instrument: hplcf.i

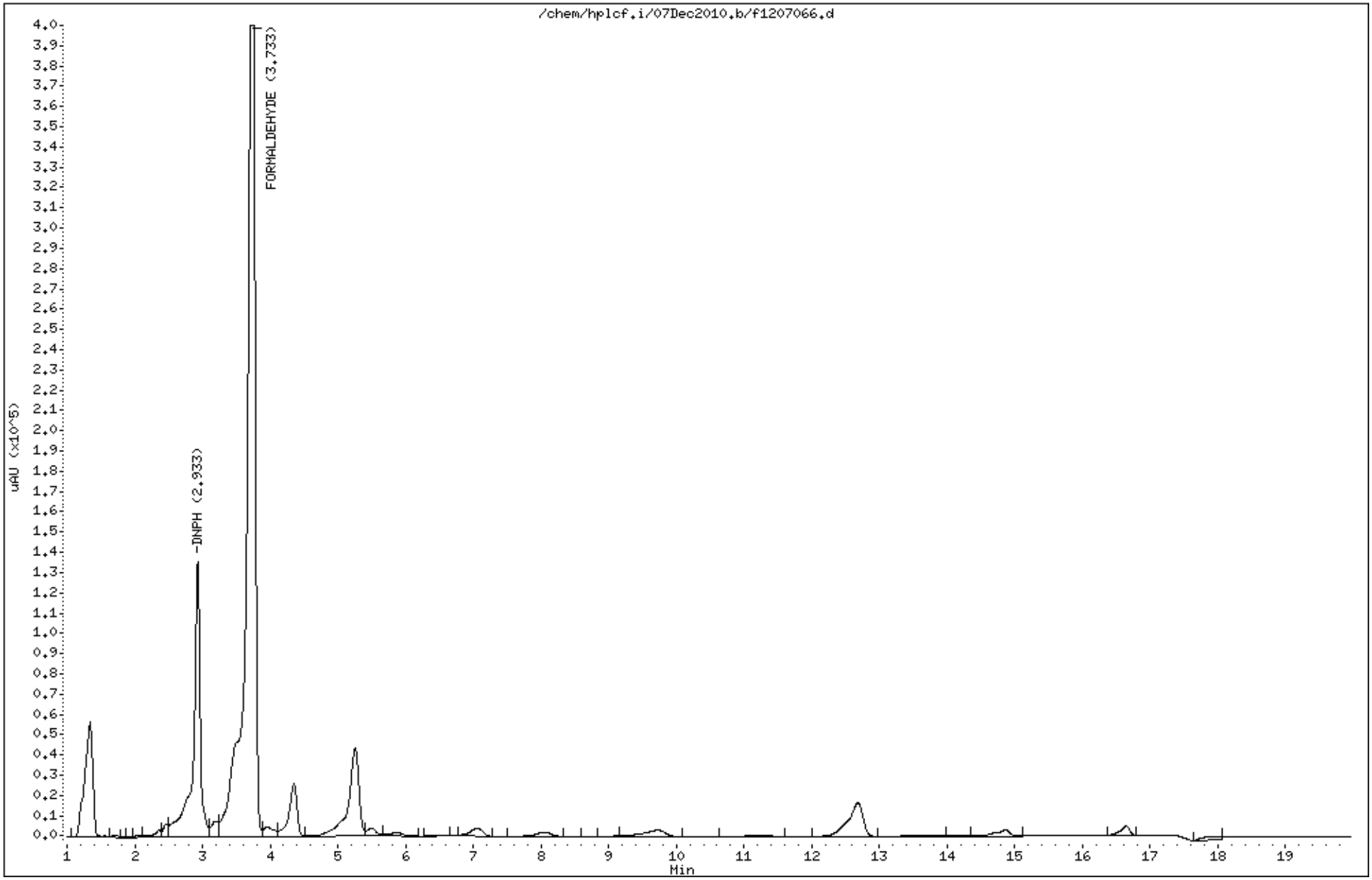
Sample Info: ;1012041B-27A;10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116829

Lab ID#: 1012041B-28A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	150	77

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 116829

Lab ID#: 1012041B-28A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207067**	**Date of Collection: 11/30/10**
Dil. Factor:	**10.0**	**Date of Analysis: 12/8/10 08:51 AM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	150	77

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207067.d
Lab Smp Id: 1012041B-28A Client Smp ID: 10
Inj Date : 08-DEC-2010 08:51
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-28A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.934	2.941	-0.007	1361060		
2 FORMALDEHYDE	3.741	3.694	0.047	4208442	38.4423	154

Data File: /chem/hplcf.i/07Dec2010.b/f1207067.d

Date : 08-DEC-2010 08:51

Client ID: 10

Instrument: hplcf.i

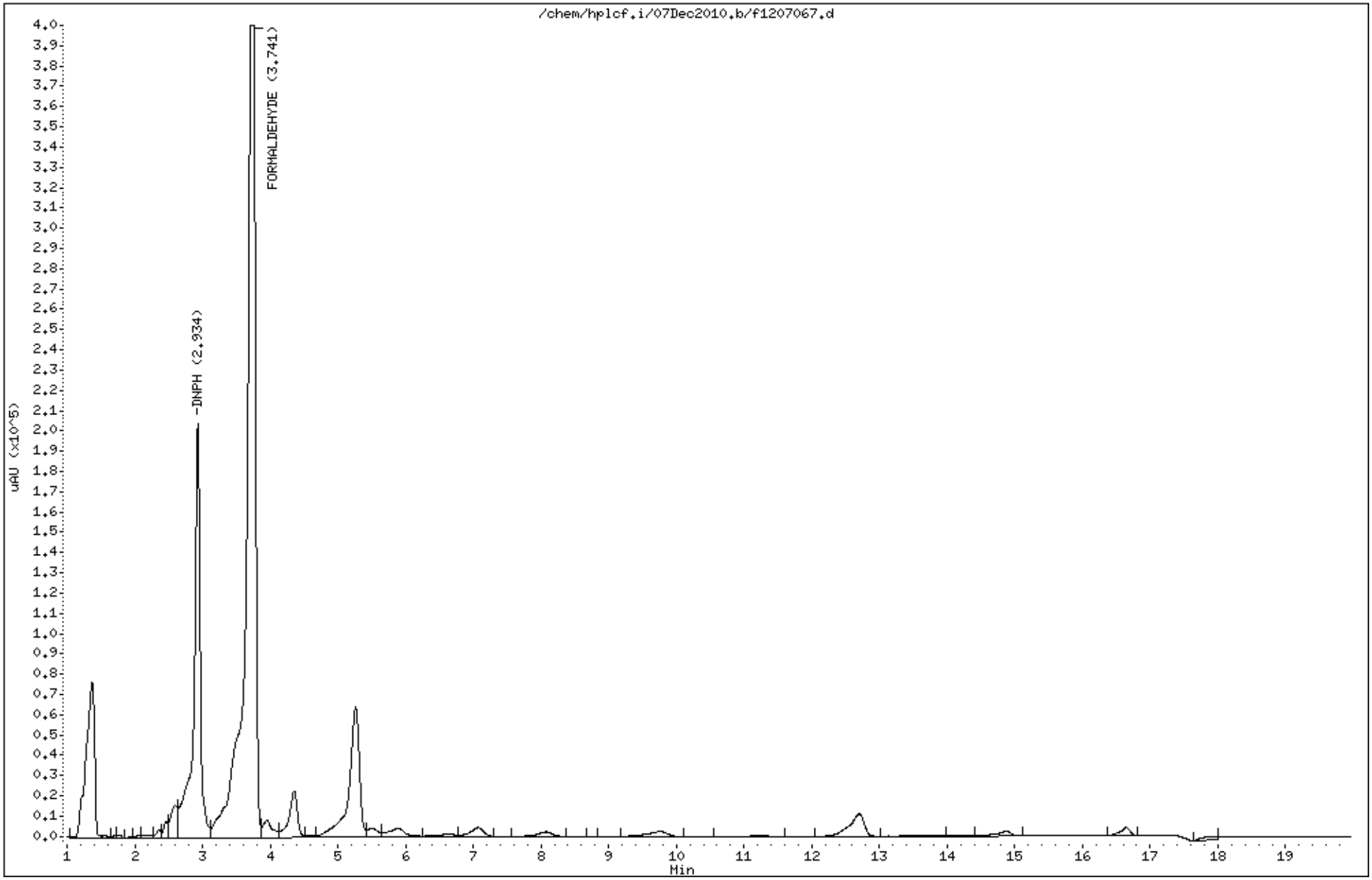
Sample Info: ;1012041B-28A;10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116830

Lab ID#: 1012041B-29A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	1.8	0.90

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 116830

Lab ID#: 1012041B-29A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207042**	**Date of Collection: 11/30/10**
Dil. Factor:	**1.00**	**Date of Analysis: 12/8/10 12:09 AM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	1.8	0.90

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207042.d
Lab Smp Id: 1012041B-29A
Inj Date : 08-DEC-2010 00:09
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-29A;
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.947	2.941	0.006	21748612		
2 FORMALDEHYDE	3.747	3.694	0.053	489000	4.46681	1.79

Data File: /chem/hplcf.i/07Dec2010.b/f1207042.d

Date : 08-DEC-2010 00:09

Client ID:

Instrument: hplcf.i

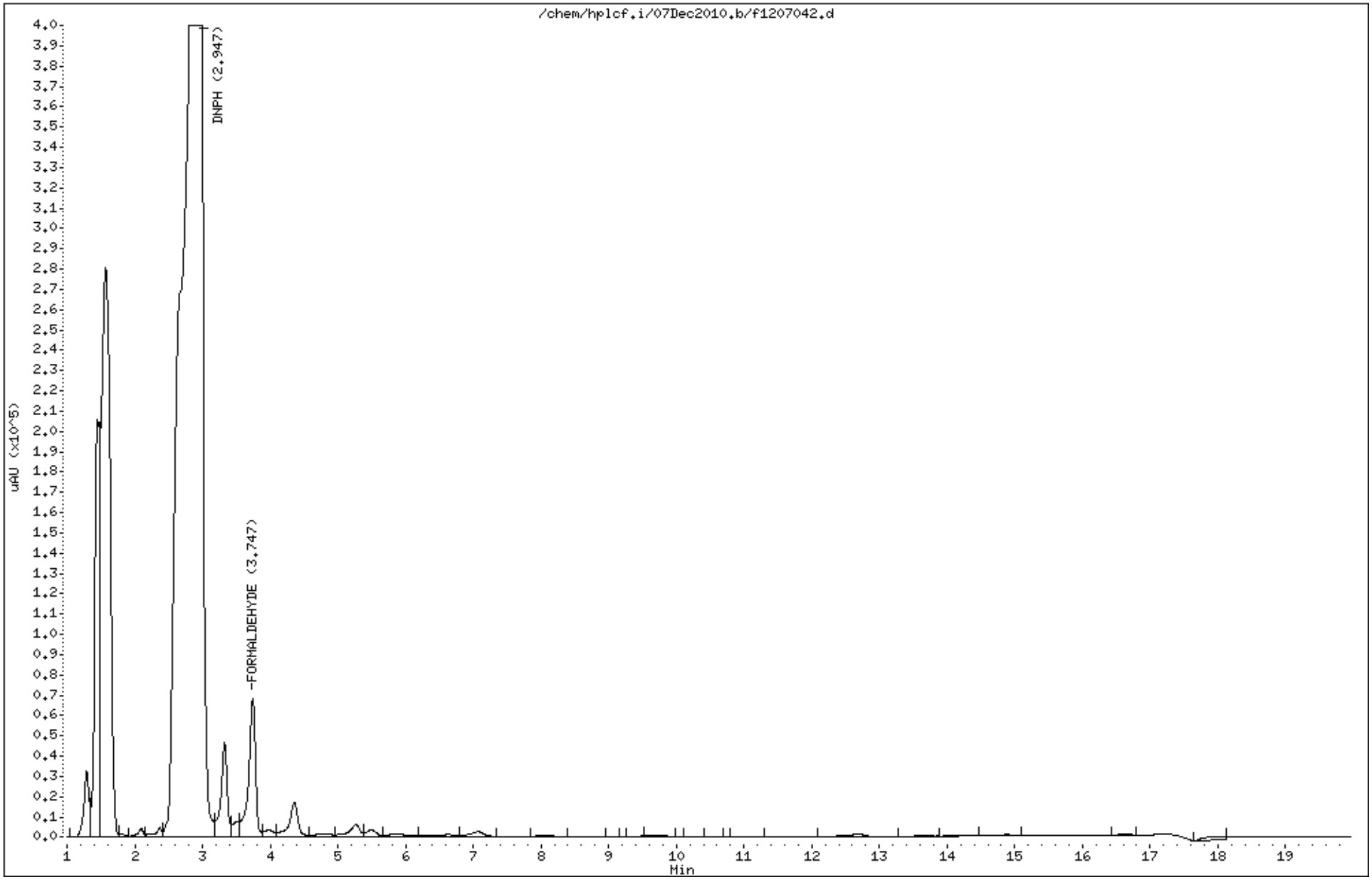
Sample Info: ;1012041B-29A;

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116831

Lab ID#: 1012041B-30A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 116831

Lab ID#: 1012041B-30A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207043**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/8/10 12:30 AM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.48	Not Detected	Not Detected

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/07Dec2010.b/f1207043.d
Lab Smp Id: 1012041B-30A
Inj Date : 08-DEC-2010 00:30
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B-30A;
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.936	2.941	-0.005	30767218		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/07Dec2010.b/f1207043.d

Date : 08-DEC-2010 00:30

Client ID:

Instrument: hplcf.i

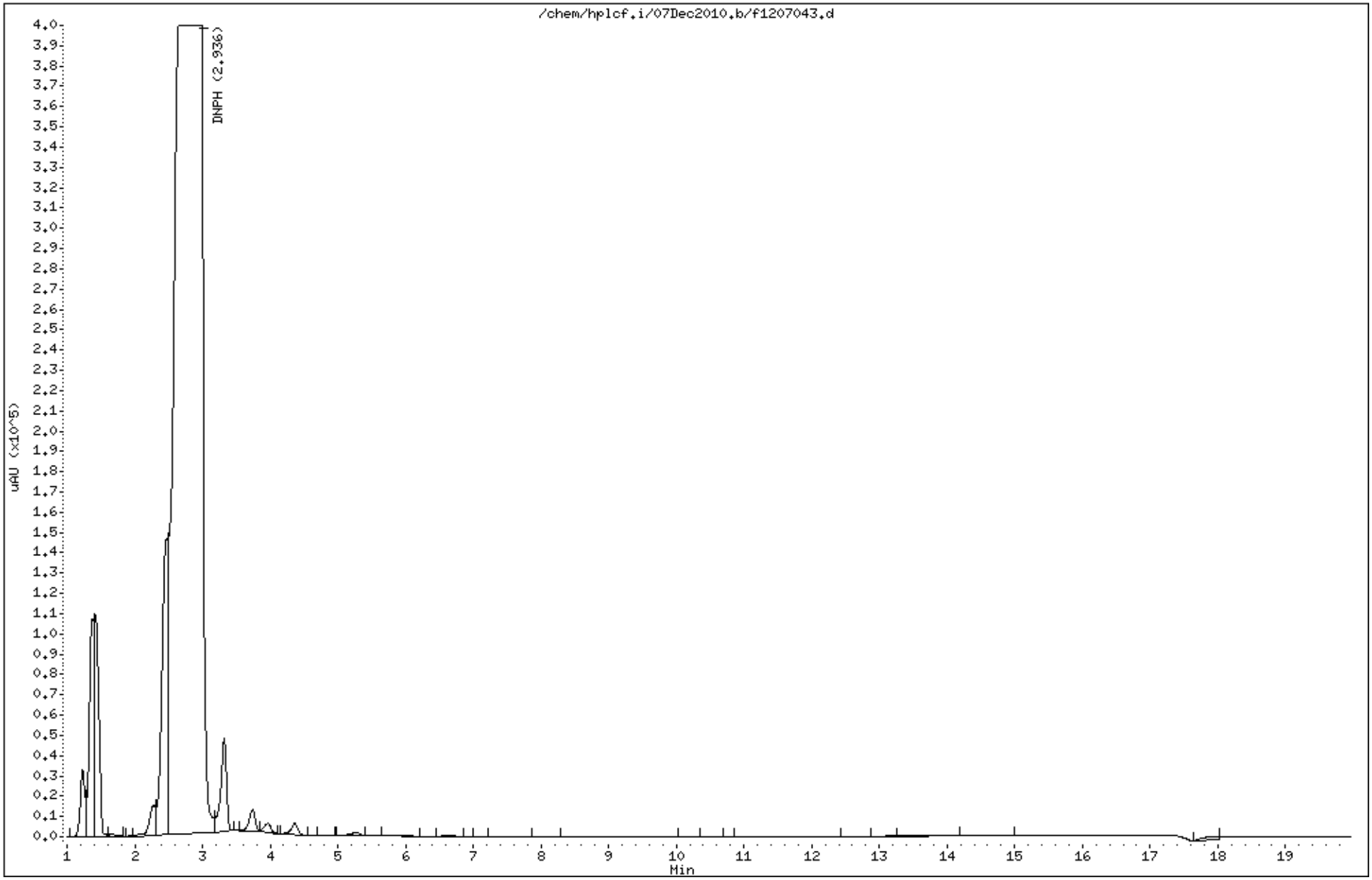
Sample Info: ;1012041B-30A;

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



QC Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1012041B-31A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207024**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/7/10 05:53 PM**
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.48	Not Detected	Not Detected

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/07Dec2010.b/f1207024.d
Lab Smp Id: 1012041B Client Smp ID: LAB BLANK
Inj Date : 07-DEC-2010 17:53
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B;LAB BL
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.937	2.941	-0.004	36166960		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/07Dec2010.b/f1207024.d

Date : 07-DEC-2010 17:53

Client ID: LAB BLANK

Instrument: hplcf.i

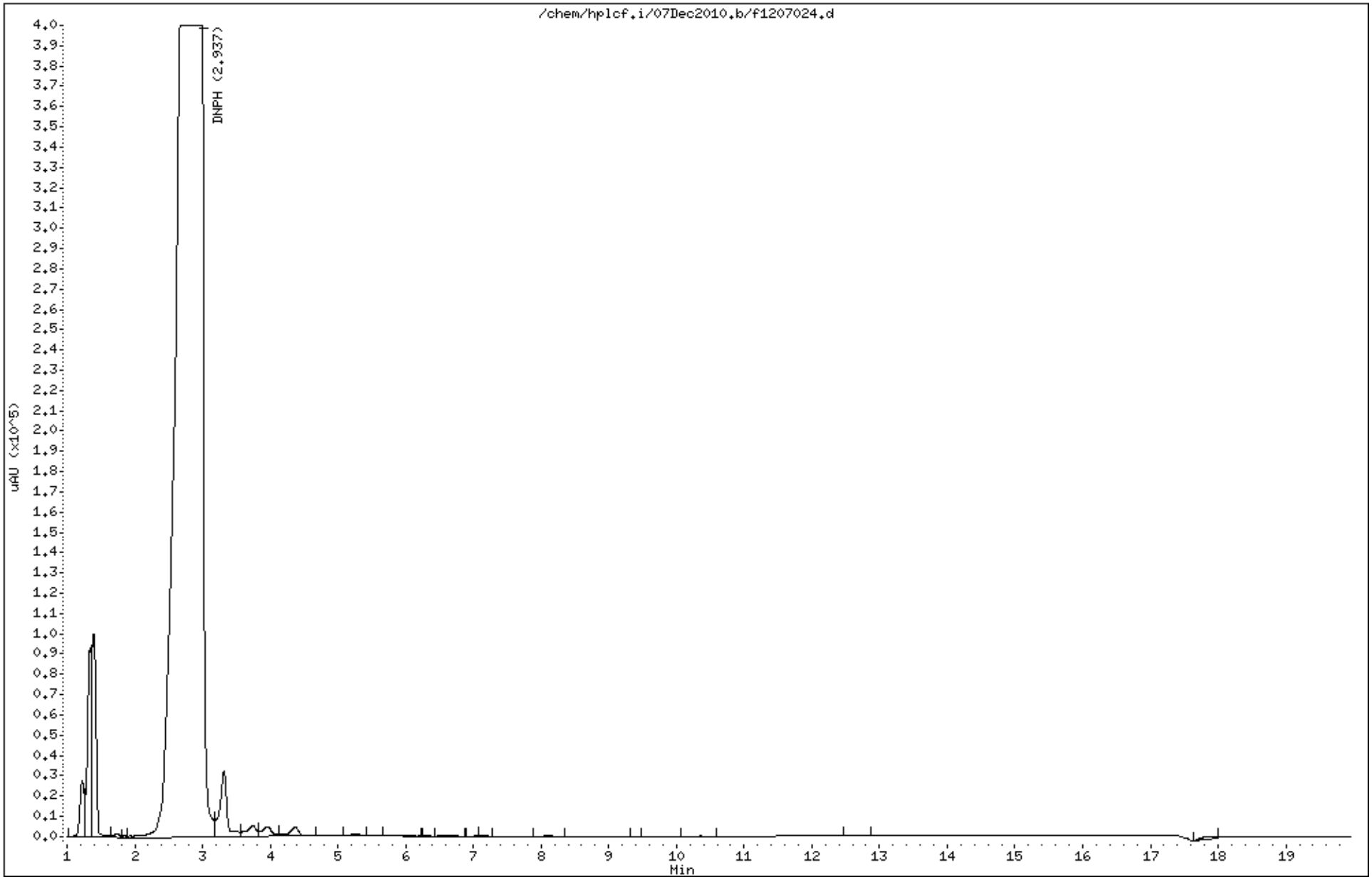
Sample Info: ;1012041B;LAB BL

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: f1207028.d & f1207027.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 12/7/10 & 12/7/10

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
50-00-0	Formaldehyde	106		107		0.94	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 14-SEP-2010 16:46
End Cal Date : 15-SEP-2010 02:52
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Cal Date : 15-Sep-2010 09:40 cleaf
Curve Type : Average

Calibration File Names:
Level 1: /chem/hplcf.i/14Sep2010.b/f0914011.d
Level 2: /chem/hplcf.i/14Sep2010.b/f0914014.d
Level 3: /chem/hplcf.i/14Sep2010.b/f0914017.d
Level 4: /chem/hplcf.i/14Sep2010.b/f0914020.d
Level 5: /chem/hplcf.i/14Sep2010.b/f0914023.d
Level 6: /chem/hplcf.i/14Sep2010.b/f0914026.d
Level 7: /chem/hplcf.i/14Sep2010.b/f0914029.d
Level 8: /chem/hplcf.i/14Sep2010.b/f0914032.d
Level 9: /chem/hplcf.i/14Sep2010.b/f0914035.d
Level 10: /chem/hplcf.i/14Sep2010.b/f0914038.d

Compound	0.05000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	4.000 Level 6	___ RRF	% RSD
	10.000 Level 7	20.000 Level 8	50.000 Level 9	75.000 Level 10				
1 DNPH	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
2 FORMALDEHYDE	123853	105887	102244	90559	105563	112382		
	108702	112707	114514	118333			109474	8.163
3 ACETALDEHYDE	+++++	84153	81685	84358	82946	88016		
	83072	85795	86254	90148			85159	3.051
4 ACROLEIN	+++++	+++++	76745	81228	78019	83736		
	78948	81614	82596	86166			81132	3.696
5 ACETONE	+++++	+++++	60665	62663	60964	63905		
	60075	62505	62587	65230			62324	2.766
6 PROPANAL	+++++	+++++	60604	62370	61076	64615		
	60743	62795	62980	66291			62684	3.112

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 14-SEP-2010 16:46
End Cal Date : 15-SEP-2010 02:52
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Cal Date : 15-Sep-2010 09:40 cleaf
Curve Type : Average

Compound	0.05000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	4.000 Level 6	___ RRF	% RSD
	10.000 Level 7	20.000 Level 8	50.000 Level 9	75.000 Level 10				
7 CROTONAL	+++++	+++++	55455	58038	55288	58300		
	54847	56743	57118	59765			56944	2.948
9 BUTYRALS/MEK	+++++	+++++	50991	54916	52929	55652		
	52447	54263	54682	57186			54133	3.608
10 BENZALDEHYDE	+++++	+++++	37551	37827	36952	39328		
	37138	38317	38582	40377			38259	3.289
11 ISO-PENTANAL	+++++	+++++	43787	45109	43981	46732		
	43928	45776	46097	48239			45456	3.516
12 PENTANAL	+++++	+++++	42595	45053	43361	45852		
	43050	44975	45307	47409			44700	3.561
14 O-TOLUALDEHYDE	+++++	+++++	37437	37216	35100	36651		
	34745	36139	36359	38081			36466	3.147
15 M,P-TOLUALDEHYDE	+++++	+++++	31477	31077	29474	31144		
	29314	30236	30483	31864			30634	3.179
16 HEXANAL	+++++	+++++	42072	41339	39329	40825		
	38336	39490	39729	41553			40334	3.839
17 2,5-Dimethylbenzaldehyde	+++++	+++++	32847	31021	28793	29408		
	27544	28236	28401	29711			29495	5.961

Calibration History

Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Start Cal Date: 14-SEP-2010 16:46
End Cal Date : 15-SEP-2010 02:52

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
14-SEP-2010 17:27	form	/chem/hplcf.i/14Sep2010.b/f0914011.d
14-SEP-2010 17:07	form	/chem/hplcf.i/14Sep2010.b/f0914010.d
14-SEP-2010 16:46	form	/chem/hplcf.i/14Sep2010.b/f0914009.d

Cal Level: 2 , Cal Amount: 0.10000		
14-SEP-2010 18:30	F+A+M,P	/chem/hplcf.i/14Sep2010.b/f0914014.d
14-SEP-2010 18:09	F+A+M,P	/chem/hplcf.i/14Sep2010.b/f0914013.d
14-SEP-2010 17:48	F+A+M,P	/chem/hplcf.i/14Sep2010.b/f0914012.d

Cal Level: 3 , Cal Amount: 0.25000		
14-SEP-2010 19:33	all	/chem/hplcf.i/14Sep2010.b/f0914017.d
14-SEP-2010 19:12	all	/chem/hplcf.i/14Sep2010.b/f0914016.d
14-SEP-2010 18:51	all	/chem/hplcf.i/14Sep2010.b/f0914015.d

Cal Level: 4 , Cal Amount: 0.50000		
14-SEP-2010 20:35	all	/chem/hplcf.i/14Sep2010.b/f0914020.d
14-SEP-2010 20:15	all	/chem/hplcf.i/14Sep2010.b/f0914019.d
14-SEP-2010 19:54	all	/chem/hplcf.i/14Sep2010.b/f0914018.d

Cal Level: 5 , Cal Amount: 1.00000		
14-SEP-2010 21:38	all	/chem/hplcf.i/14Sep2010.b/f0914023.d
14-SEP-2010 21:17	all	/chem/hplcf.i/14Sep2010.b/f0914022.d
14-SEP-2010 20:56	all	/chem/hplcf.i/14Sep2010.b/f0914021.d

Cal Level: 6 , Cal Amount: 4.00000		
14-SEP-2010 22:41	all	/chem/hplcf.i/14Sep2010.b/f0914026.d
14-SEP-2010 22:20	all	/chem/hplcf.i/14Sep2010.b/f0914025.d
14-SEP-2010 21:59	all	/chem/hplcf.i/14Sep2010.b/f0914024.d

Cal Level: 7 , Cal Amount: 10.00000		
14-SEP-2010 23:44	all	/chem/hplcf.i/14Sep2010.b/f0914029.d
14-SEP-2010 23:23	all	/chem/hplcf.i/14Sep2010.b/f0914028.d
14-SEP-2010 23:02	all	/chem/hplcf.i/14Sep2010.b/f0914027.d

Cal Level: 8 , Cal Amount: 20.00000		
15-SEP-2010 00:46	all	/chem/hplcf.i/14Sep2010.b/f0914032.d
15-SEP-2010 00:25	all	/chem/hplcf.i/14Sep2010.b/f0914031.d
15-SEP-2010 00:04	all	/chem/hplcf.i/14Sep2010.b/f0914030.d

Cal Level: 9 , Cal Amount: 50.00000		
15-SEP-2010 01:49	all	/chem/hplcf.i/14Sep2010.b/f0914035.d
15-SEP-2010 01:28	all	/chem/hplcf.i/14Sep2010.b/f0914034.d
15-SEP-2010 01:07	all	/chem/hplcf.i/14Sep2010.b/f0914033.d

Cal Level: 10, Cal Amount: 75.00000		
15-SEP-2010 02:52	all	/chem/hplcf.i/14Sep2010.b/f0914038.d
15-SEP-2010 02:31	all	/chem/hplcf.i/14Sep2010.b/f0914037.d
15-SEP-2010 02:10	all	/chem/hplcf.i/14Sep2010.b/f0914036.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 4.00		
14-SEP-2010 22:41	all	/chem/hplcf.i/14Sep2010.b/f0914026.d
Ccal Level: 6 , Ccal Amount: 4.00		
14-SEP-2010 22:20	all	/chem/hplcf.i/14Sep2010.b/f0914025.d
Ccal Level: 6 , Ccal Amount: 4.00		
14-SEP-2010 21:59	all	/chem/hplcf.i/14Sep2010.b/f0914024.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 14-SEP-2010 16:46
End Cal Date : 15-SEP-2010 02:52
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Cal Date : 15-Sep-2010 09:40 cleaf
Curve Type : Average

Cary Leaf 9/20/10

2nd source : f0914040.d

Calibration File Names:
Level 1: /chem/hplcf.i/14Sep2010.b/f0914011.d
Level 2: /chem/hplcf.i/14Sep2010.b/f0914014.d
Level 3: /chem/hplcf.i/14Sep2010.b/f0914017.d
Level 4: /chem/hplcf.i/14Sep2010.b/f0914020.d
Level 5: /chem/hplcf.i/14Sep2010.b/f0914023.d
Level 6: /chem/hplcf.i/14Sep2010.b/f0914026.d
Level 7: /chem/hplcf.i/14Sep2010.b/f0914029.d
Level 8: /chem/hplcf.i/14Sep2010.b/f0914032.d
Level 9: /chem/hplcf.i/14Sep2010.b/f0914035.d
Level 10: /chem/hplcf.i/14Sep2010.b/f0914038.d

See history

Based on a 20ul injection 9/21/10

Compound	0.05000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	4.000 Level 6	RRF	% RSD
	10.000 Level 7	20.000 Level 8	50.000 Level 9	75.000 Level 10				
ug/5mL								
1 DNPH	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
2 FORMALDEHYDE	123853	105887	102244	90559	105563	112382		
	108702	112707	114514	118333			109474	8.163
3 ACETALDEHYDE	+++++	84153	81685	84358	82946	88016		
	83072	85795	86254	90148			85159	3.051
4 ACROLEIN	+++++	+++++	76745	81228	78019	83736		
	78948	81614	82596	86166			81132	3.696
5 ACETONE	+++++	+++++	60665	62663	60964	63905		
	60075	62505	62587	65230			62324	2.766
6 PROPANAL	+++++	+++++	60604	62370	61076	64615		
	60743	62795	62980	66291			62684	3.112

CRM 9/20/10

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 14-SEP-2010 16:46
End Cal Date : 15-SEP-2010 02:52
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Cal Date : 15-Sep-2010 09:40 cleaf
Curve Type : Average

Compound	0.05000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	4.000 Level 6	RRF	% RSD
	10.000 Level 7	20.000 Level 8	50.000 Level 9	75.000 Level 10				
7 CROTONAL	+++++	+++++	55455	58038	55288	58300		
	54847	56743	57118	59765			56944	2.948
9 BUTYRALS/MEK	+++++	+++++	50991	54916	52929	55652		
	52447	54263	54682	57186			54133	3.608
10 BENZALDEHYDE	+++++	+++++	37551	37827	36952	39328		
	37138	38317	38582	40377			38259	3.289
11 ISO-PENTANAL	+++++	+++++	43787	45109	43981	46732		
	43928	45776	46097	48239			45456	3.516
12 PENTANAL	+++++	+++++	42595	45053	43361	45852		
	43050	44975	45307	47409			44700	3.561
14 O-TOLUALDEHYDE	+++++	+++++	37437	37216	35100	36651		
	34745	36139	36359	38081			36466	3.147
15 M,P-TOLUALDEHYDE	+++++	+++++	31477	31077	29474	31144		
	29314	30236	30483	31864			30634	3.179
16 HEXANAL	+++++	+++++	42072	41339	39329	40825		
	38336	39490	39729	41553			40334	3.839
17 2,5-Dimethylbenzaldehyde	+++++	+++++	32847	31021	28793	29408		
	27544	28236	28401	29711			29495	5.961

HPLC-F Run Logbook **@Air Toxics Ltd.** **Logbook Book #: 1956**

Method: All Methods (DNPH) Pressure: 87 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	f0914008	ACN WASH	1.00	CRL	9/14/10	1625	CRL	equilibrating system
✓	9	1838-34-0.05				~~1625~~ 1646		level 1
✓	10					1707		
✓	11					1727		
✓	12	1838-34-0.1				1748		level 2
✓	13					1809		
✓	14					1830		
✓	15	1838-34-0.25				1851		level 3
✓	16					1912		
✓	17					1933		
✓	18	1838-34-0.50				1954		level 4
✓	19					2015		
✓	20					2035		
✓	21	1838-34-1.0				2056		level 5
✓	22					2117		
✓	23					2138		
✓	24	1838-32-4.0				2159		level 6
✓	25					2220		
✓	26					2241		
✓	27	1838-34-10.0				2302		level 7
✓	28					2323		
✓	29					2344		
✓	30	1838-34-20.0			9/15/10	0004		level 8
✓	31					0025		
✓	32					0046		
✓	33	1838-34-50.0				0107		level 9
✓	34					0128		
✓	35					0149		

Calculation Check:

File ID: f0914024.d Compound: Crotonal Initials: CRL

Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}}$ × DF = $\frac{(232736)}{(56944)}$ × (1.00) = 4.09

Reported Result: 4.00

Carey Leaf 9/15/10

Signed Date

HPLC-F Run Logbook **@Air Toxics Ltd.** **Logbook Book #: 1956**

Method: All DNPH methods Pressure: 87 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	f0914036	1838-34-75.0	1.00	CRL	9/15/10	0210	CRL	level 10
✓	37	↓	↓	↓	↓	0231	↓	↓
✓	38	↓	↓	↓	↓	0252	↓	↓
✓	39	ACN WASH	↓	↓	↓	0312	↓	
✓	40	1838-30-4.0 LCS	↓	↓	↓	0333	↓	LCS

Calculation Check:

File ID:_____ Compound:_____ Initials:_____

Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}} \times \text{DF} = \frac{(\quad)}{(\quad)} \times (\quad) =$ [redacted]

Reported Result: [redacted]

CRL 9/15/10

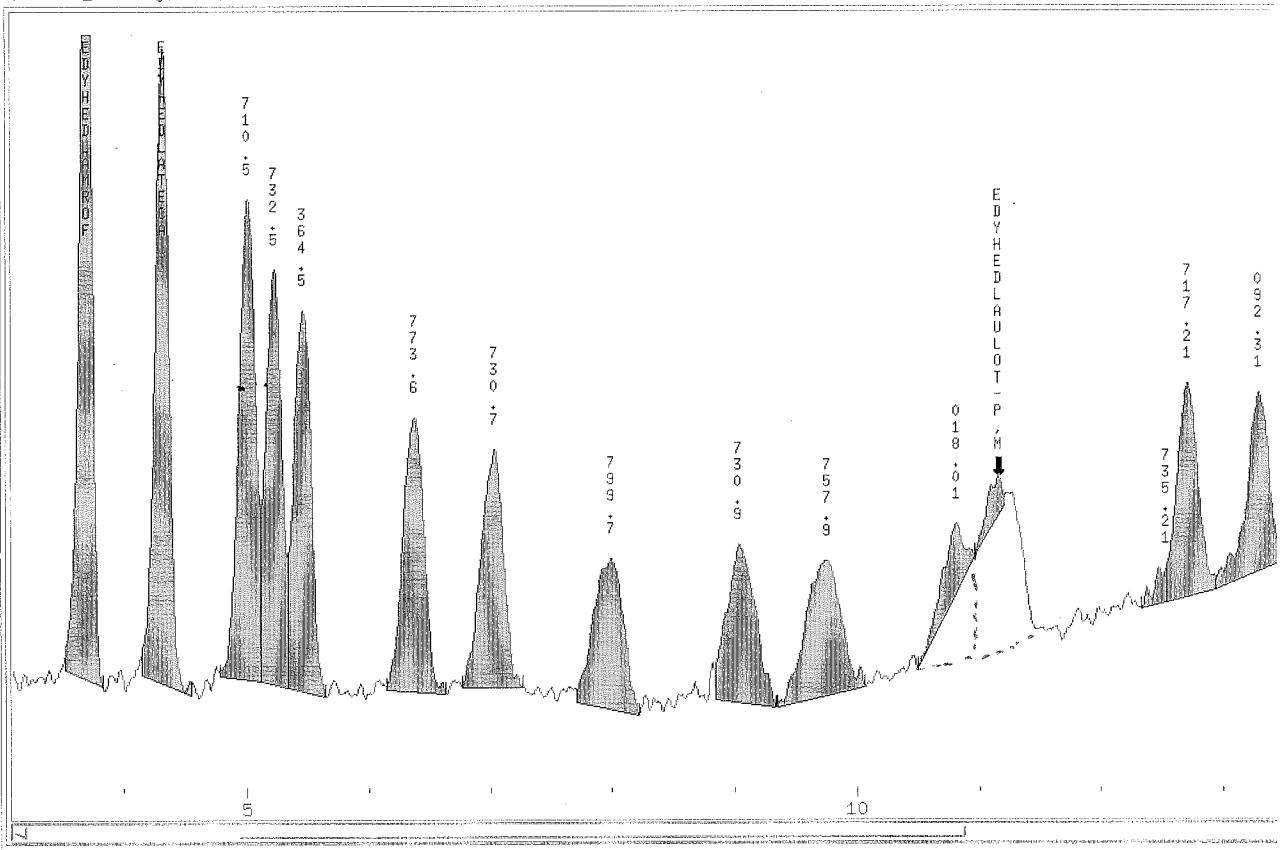
Casey Leaf 9/15/10

Signed Date

File Security Edit Display Process Help

Sample: 1838-34-0.1 Type: CALIB_2 Inj.Date: 14-SEP-2010 18:30 Col: 1 C-18 REVERSE PHASE

1 DNPH
\+ 2 FORMALDEHYDE
\+ 3 ACETALDEHYDE
\+ 15 M,P-TOLUALDEHY



f0914011.d
f0914012.d
f0914013.d
f0914014.d
f0914015.d
f0914016.d
f0914017.d
f0914018.d
f0914019.d
f0914020.d
f0914021.d
f0914022.d
f0914023.d
f0914027.d
f0914028.d
f0914029.d
f0914030.d
f0914031.d
f0914032.d
f0914033.d
f0914034.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	11.165	15167	0.490	0.490	100		

\- Mark M,P-TOLUALDEHYDE Undetected.

Before: Assign baseline and split peak

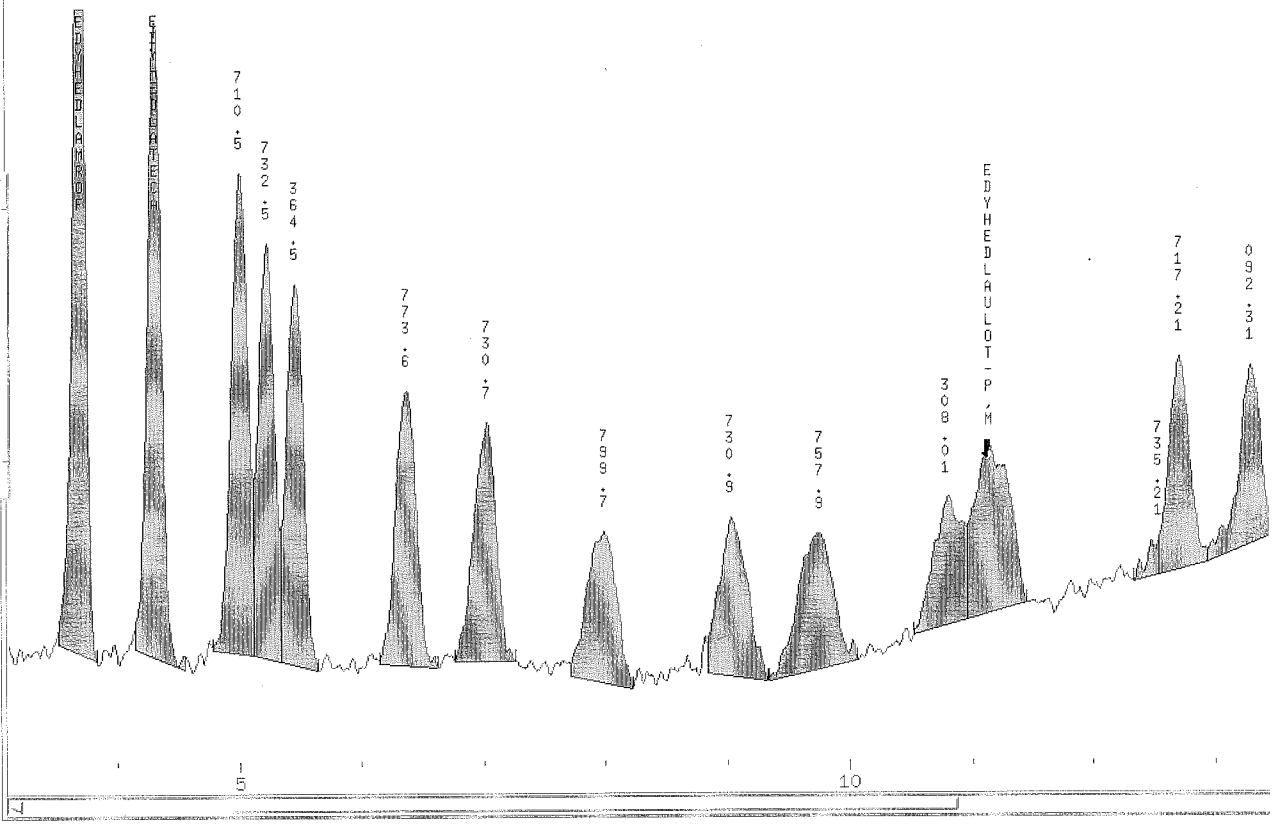
aw 9/15/10

Sample: 1838-34-0.1 Type: CALIB_2 Inj.Date: 14-SEP-2010 18:30 Col: 1 C-18 REVERSE PHASE

1 DNPH
\+ 2 FORMALDEHYDE
\+ 3 ACETALDEHYDE
\+ 15 M,P-TOLUALDEHY

Compound: M,P-TOLUAL
Update Method Expecte
Time New Time
11.157
Done Apply Una

f0914011.d
f0914012.d
f0914013.d
f0914014.d
f0914015.d
f0914016.d
f0914017.d
f0914018.d
f0914019.d
f0914020.d
f0914021.d
f0914022.d
f0914023.d
f0914027.d
f0914028.d
f0914029.d
f0914030.d
f0914031.d
f0914032.d
f0914033.d
f0914034.d



Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	11.157	5452	0.178	0.178	100	M	

\- Mark M,P-TOLUALDEHYDE Undetected.

After

ca 9/15/10

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

9/15/10

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914040.d
Lab Smp Id: 1838-36-4.0 Client Smp ID: LCS
Inj Date : 15-SEP-2010 03:33
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-36-4.0;LCS
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:54 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG)	FINAL (ug)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.741	3.703	0.038	459327	4.19575	4.20
3 ACETALDEHYDE	4.375	4.323	0.052	346792	4.07232	4.07
4 ACROLEIN	5.095	5.093	0.002	321649	3.96455	3.96
5 ACETONE	5.301	5.300	0.001	259469	4.16321	4.16
6 PROPANAL	5.542	5.546	-0.004	253071	4.03724	4.04
7 CROTONAL	6.488	6.480	0.008	235642	4.13814	4.14
9 BUTYRALS/MEK	7.141	7.146	-0.005	218369	4.03393	4.03
10 BENZALDEHYDE	8.175	8.166	0.009	157886	4.12678	4.13
11 ISO-PENTANAL	9.281	9.260	0.021	183154	4.02926	4.03
12 PENTANAL	9.955	9.946	0.009	174549	3.90489	3.90
14 O-TOLUALDEHYDE	11.035	11.026	0.009	143736	3.94165	3.94
15 M,P-TOLUALDEHYDE	11.341	11.157	0.184	251412	8.20703	8.21
16 HEXANAL	12.861	12.853	0.008	157763	3.91141	3.91
17 2,5-Dimethylbenzaldehyde	13.455	13.453	0.002	115179	3.90508	3.90

Report Date: 15-Sep-2010 09:55

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1838-36-4.0
Level: MED
Data Type: LC DATA
SpikeList File: 4ug2nd.spk
Sublist File: all.sub
Method File: /chem/hplcf.i/14Sep2010.b/F10D0914.m
Misc Info:

Client SDG: 14Sep2010
Fraction: OTHER
Client Smp ID: LCS
Operator: CRL
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	4.00	4.20	104.89	85-115
3 ACETALDEHYDE	4.00	4.07	101.81	85-115
4 ACROLEIN	4.00	3.96	99.11	85-115
5 ACETONE	4.00	4.16	104.08	85-115
6 PROPANAL	4.00	4.04	100.93	85-115
7 CROTONAL	4.00	4.14	103.45	85-115
9 BUTYRALS/MEK	4.00	4.03	100.85	85-115
10 BENZALDEHYDE	4.00	4.13	103.17	85-115
11 ISO-PENTANAL	4.00	4.03	100.73	85-115
12 PENTANAL	4.00	3.90	97.62	85-115
14 O-TOLUALDEHYDE	4.00	3.94	98.54	85-115
15 M,P-TOLUALDEHYDE	8.00	8.21	102.59	85-115
16 HEXANAL	4.00	3.91	97.79	85-115
17 2,5-Dimethylbenzal	4.00	3.90	97.63	85-115

Data File: /chem/hplcf.i/14Sep2010.b/f0914040.d

Date : 15-SEP-2010 03:33

Client ID: LCS

Instrument: hplcf.i

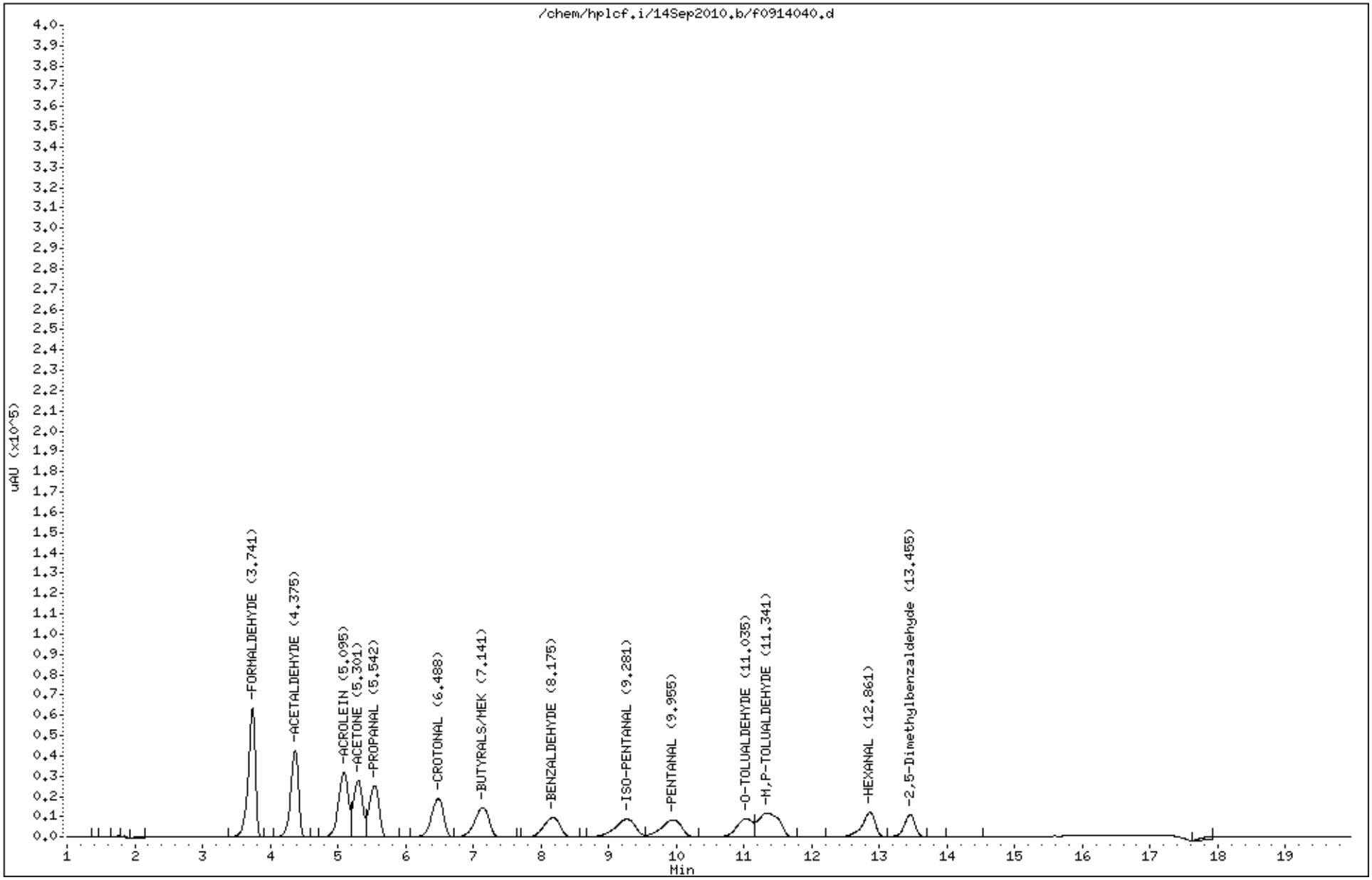
Sample Info: ;1838-36-4.0;LCS

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914011.d
Lab Smp Id: 1838-34-0.05 Client Smp ID: 1
Inj Date : 14-SEP-2010 17:27
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.05;1
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 17:27 Cal File: f0914011.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.680	3.680	0.000	6159	0.05000	0.0521

Data File: /chem/hplcf.i/14Sep2010.b/f0914011.d

Date : 14-SEP-2010 17:27

Client ID: 1

Instrument: hplcf.i

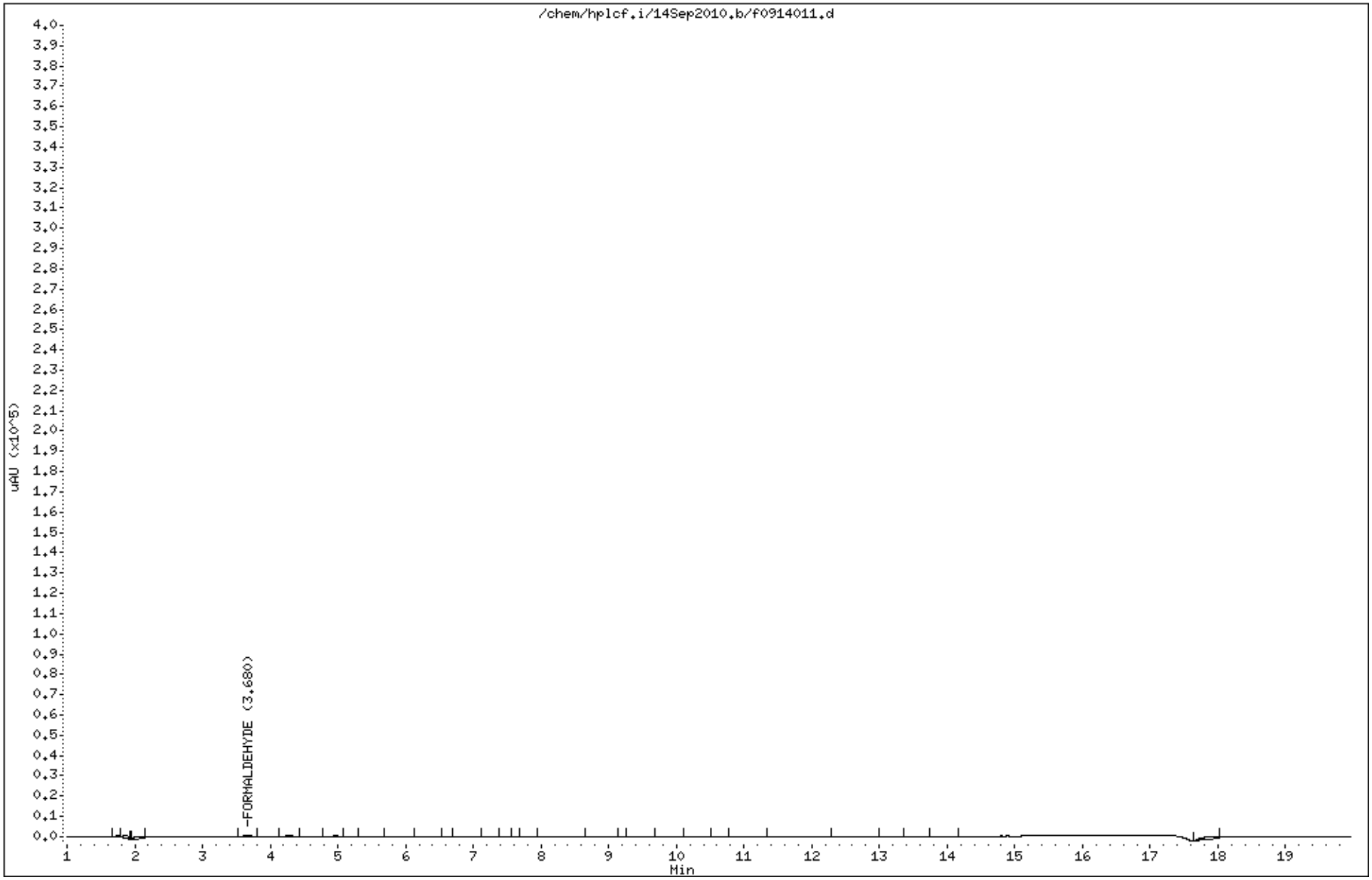
Sample Info: ;1838-34-0.05;1

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914010.d
Lab Smp Id: 1838-34-0.05 Client Smp ID: 1
Inj Date : 14-SEP-2010 17:07
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.05;1
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 17:07 Cal File: f0914010.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.673	3.673	0.000	6217	0.05000	0.0531

Data File: /chem/hplcf.i/14Sep2010.b/f0914010.d

Date : 14-SEP-2010 17:07

Client ID: 1

Instrument: hplcf.i

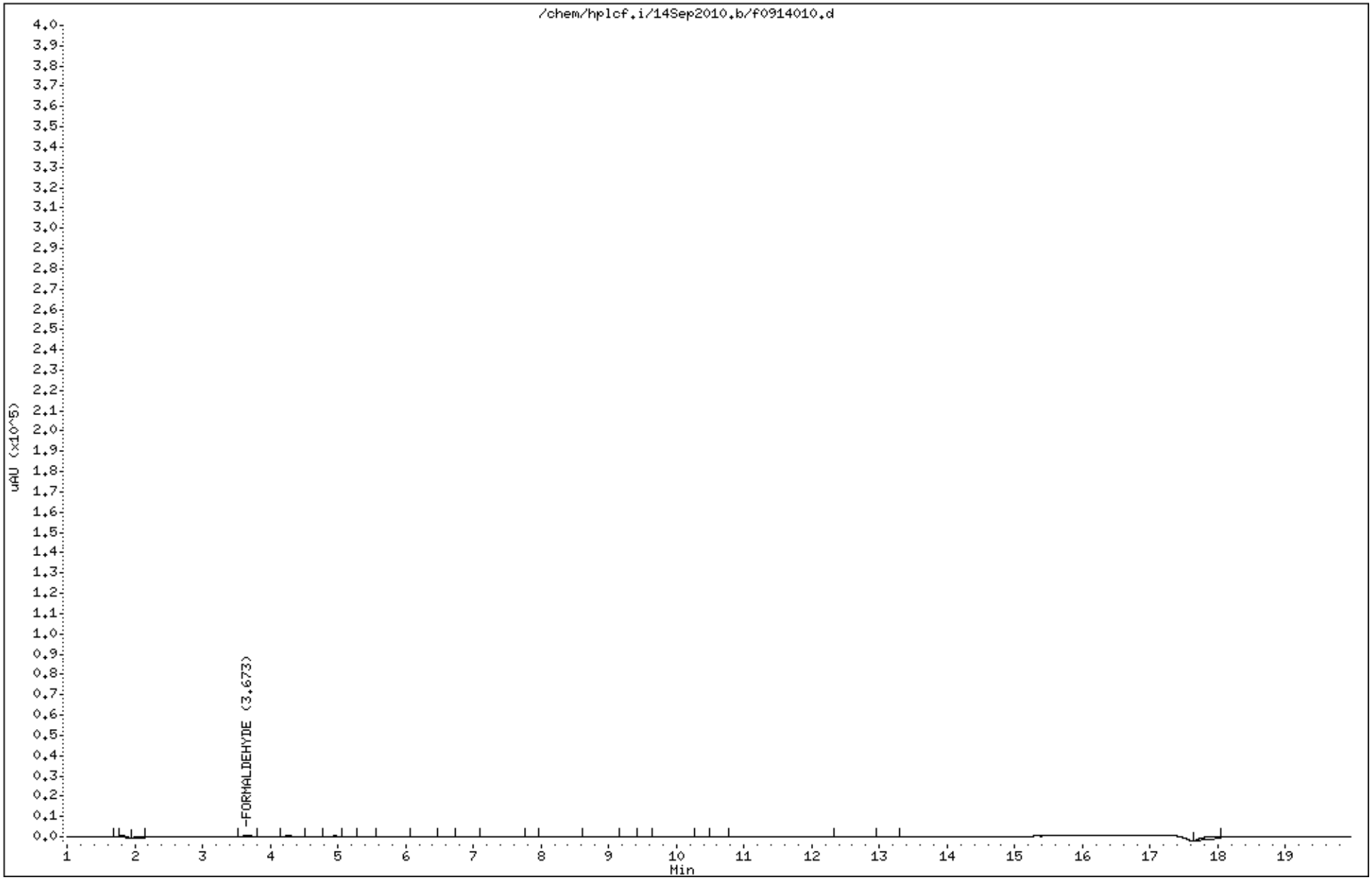
Sample Info: ;1838-34-0.05;1

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914009.d
Lab Smp Id: 1838-34-0.05 Client Smp ID: 1
Inj Date : 14-SEP-2010 16:46
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.05;1
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 16:46 Cal File: f0914009.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.669	3.669	0.000	6202	0.05000	0.0538

Data File: /chem/hplcf.i/14Sep2010.b/f0914009.d

Date : 14-SEP-2010 16:46

Client ID: 1

Instrument: hplcf.i

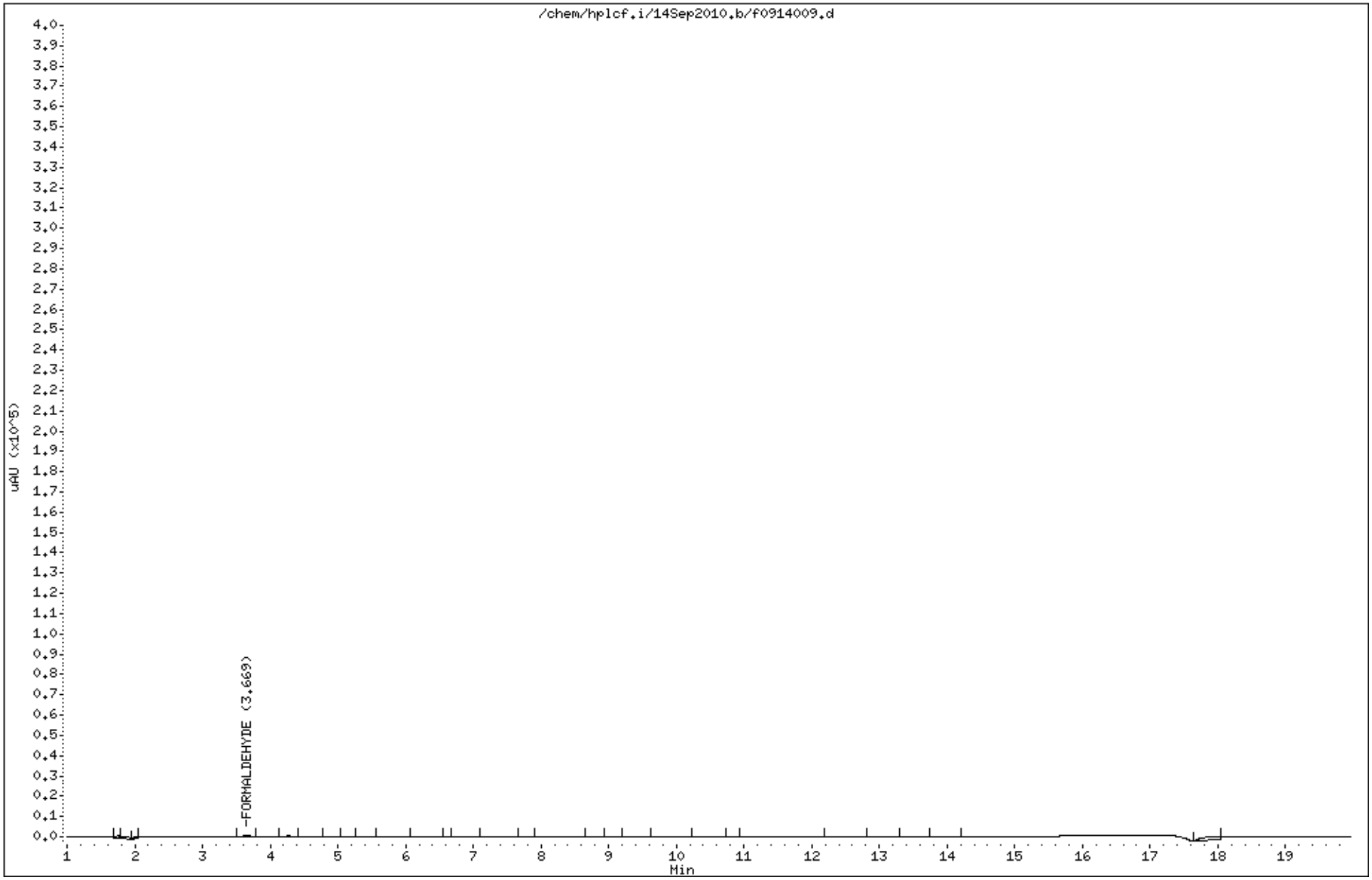
Sample Info: ;1838-34-0.05;1

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914014.d
Lab Smp Id: 1838-34-0.1 Client Smp ID: 2
Inj Date : 14-SEP-2010 18:30
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.1;2
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: F+A+M,P.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.703	3.740	-0.037	10562	0.10000	0.0965
3 ACETALDEHYDE	4.323	4.373	-0.050	8338	0.10000	0.0979
15 M,P-TOLUALDEHYDE	11.157	11.333	-0.176	5452	0.20000	0.178(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/hplcf.i/14Sep2010.b/f0914014.d

Date : 14-SEP-2010 18:30

Client ID: 2

Instrument: hplcf.i

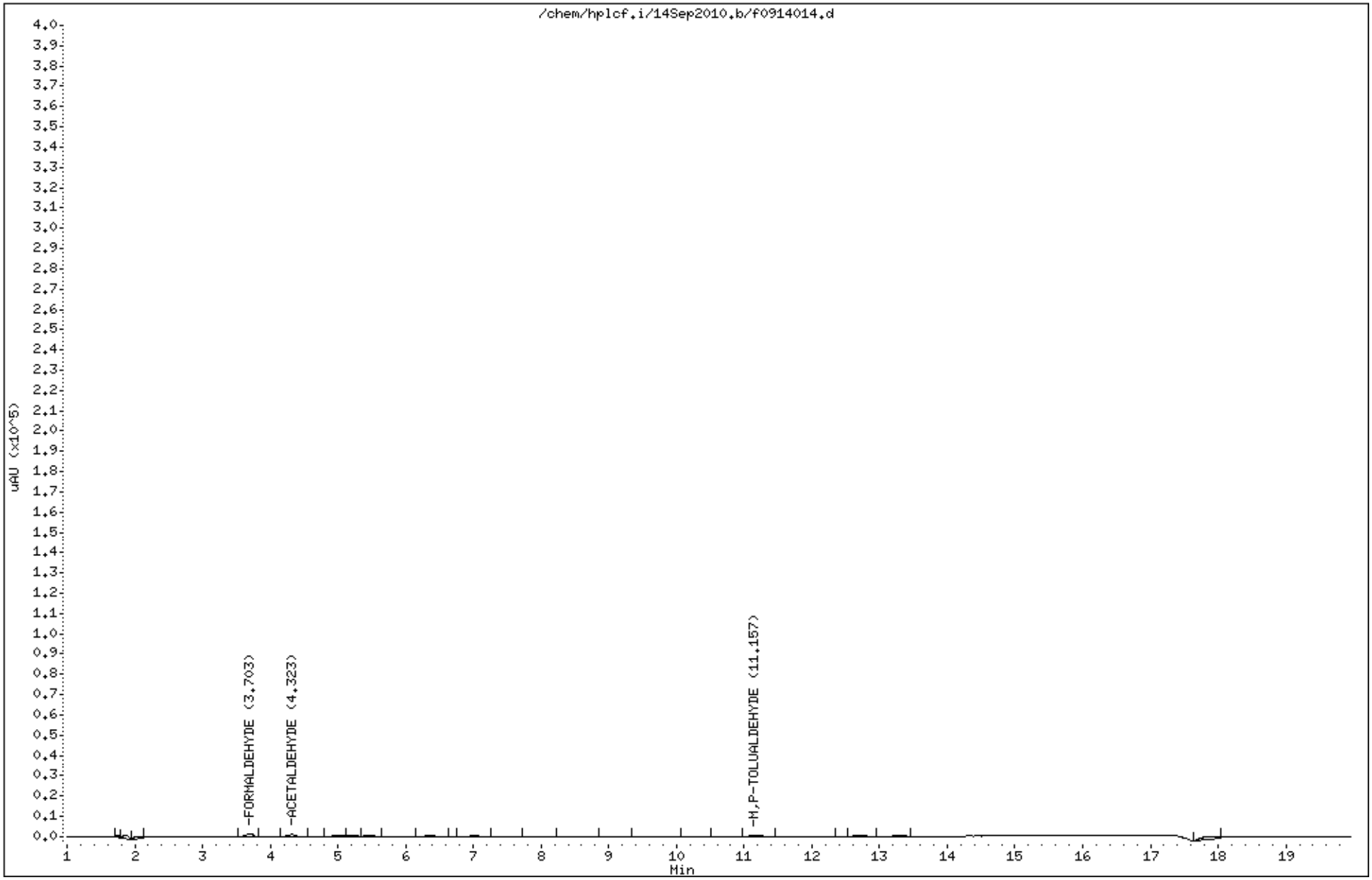
Sample Info: ;1838-34-0.1;2

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914013.d
Lab Smp Id: 1838-34-0.1 Client Smp ID: 2
Inj Date : 14-SEP-2010 18:09
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.1;2
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:09 Cal File: f0914013.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: F+A+M,P.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.704	3.704	0.000	10430	0.10000	0.0906
3 ACETALDEHYDE	4.324	4.324	0.000	8491	0.10000	0.0980
15 M,P-TOLUALDEHYDE	11.124	11.124	0.000	7199	0.20000	0.231

Data File: /chem/hplcf.i/14Sep2010.b/f0914013.d

Date : 14-SEP-2010 18:09

Client ID: 2

Instrument: hplcf.i

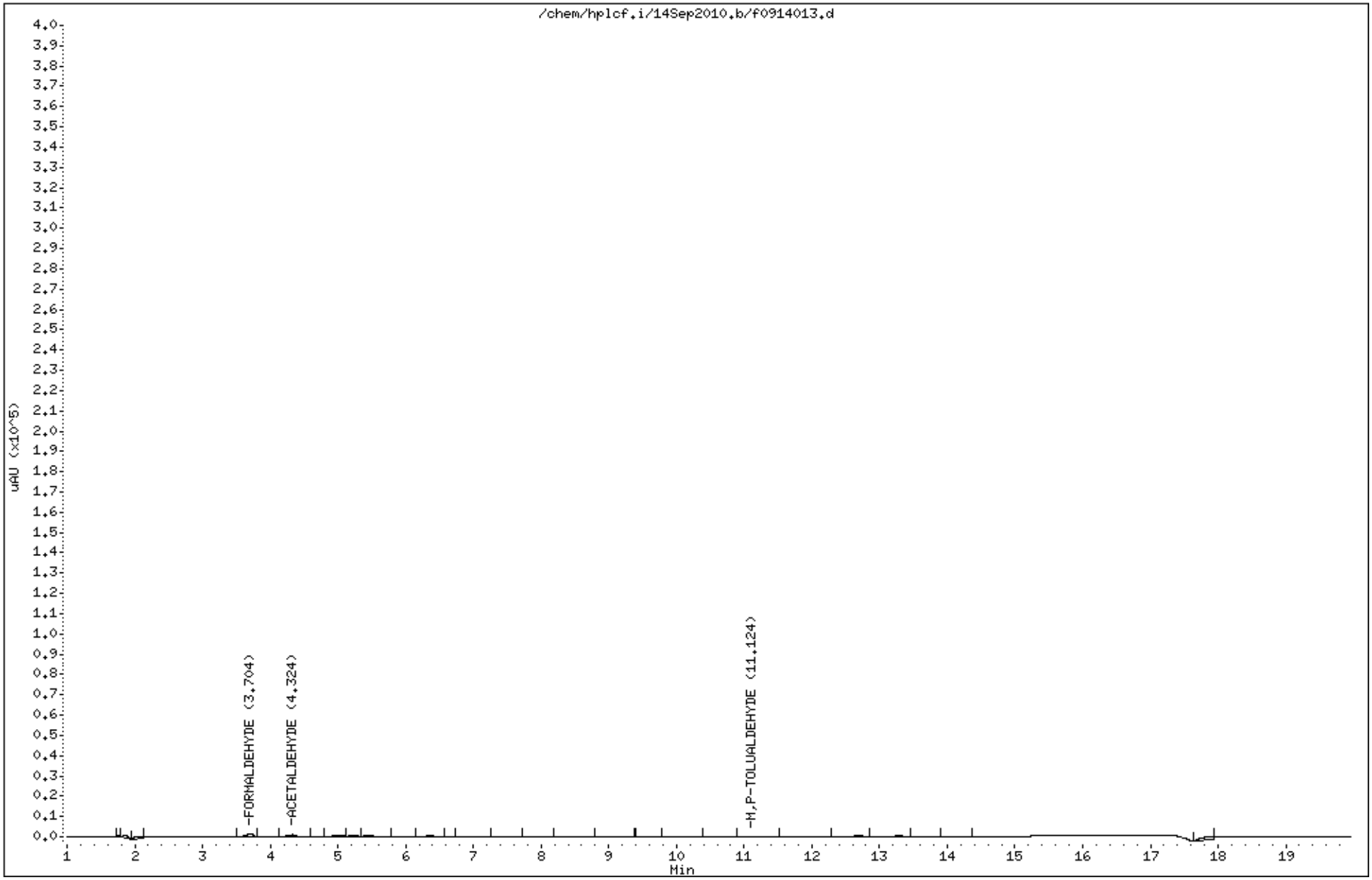
Sample Info: ;1838-34-0.1;2

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914012.d
Lab Smp Id: 1838-34-0.1 Client Smp ID: 2
Inj Date : 14-SEP-2010 17:48
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.1;2
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 17:48 Cal File: f0914012.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: F+A+M,P.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.688	3.688	0.000	10774	0.10000	0.0924
3 ACETALDEHYDE	4.301	4.301	0.000	8417	0.10000	0.0967
15 M,P-TOLUALDEHYDE	11.094	11.094	0.000	7091	0.20000	0.228

Data File: /chem/hplcf.i/14Sep2010.b/f0914012.d

Date : 14-SEP-2010 17:48

Client ID: 2

Instrument: hplcf.i

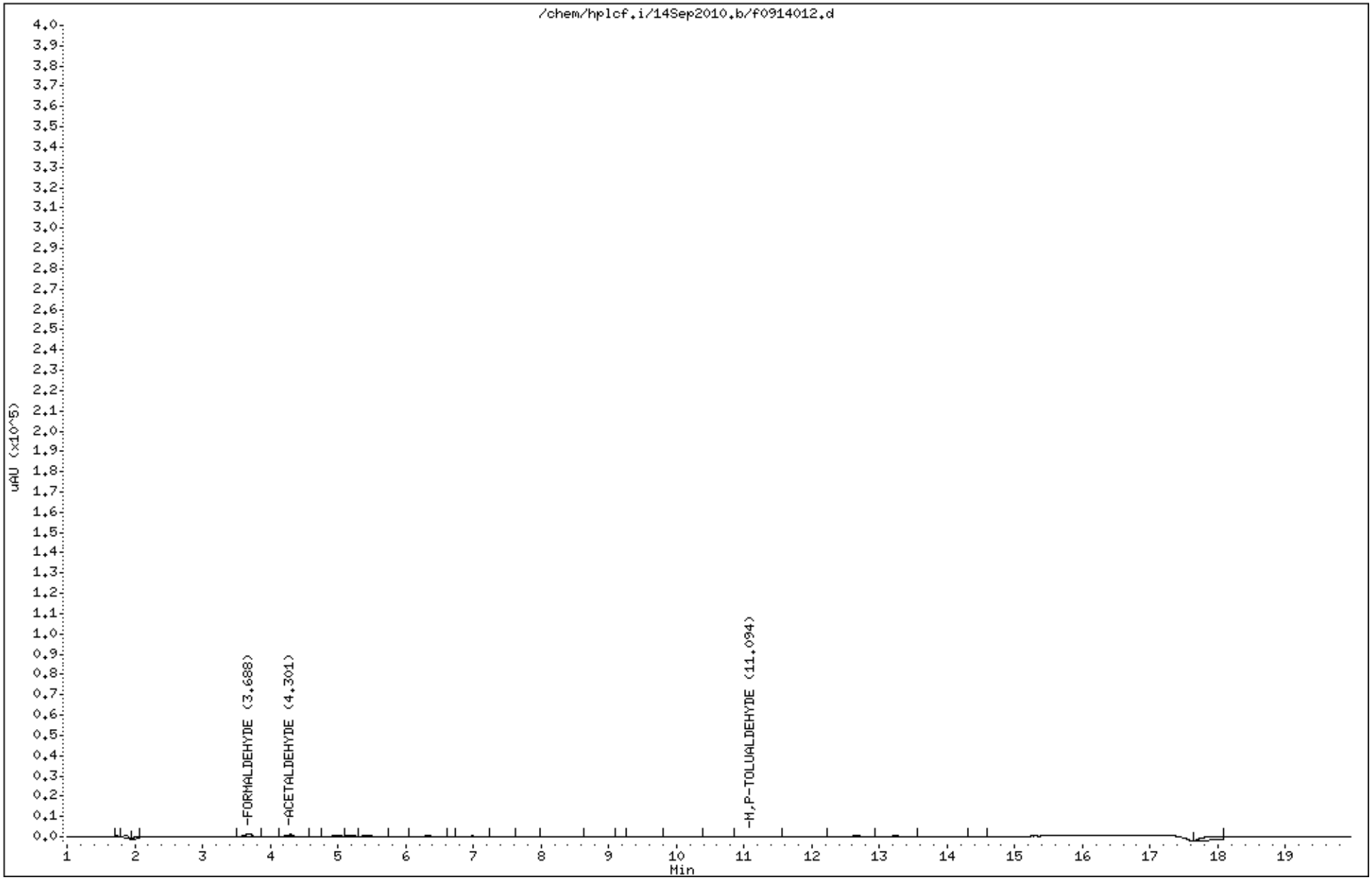
Sample Info: ;1838-34-0.1;2

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914017.d
Lab Smp Id: 1838-34-0.25 Client Smp ID: 3
Inj Date : 14-SEP-2010 19:33
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.25;3
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 19:33 Cal File: f0914017.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.721	3.721	0.000	25225	0.25000	0.227
3 ACETALDEHYDE	4.341	4.341	0.000	20405	0.25000	0.241
4 ACROLEIN	5.055	5.055	0.000	19200	0.25000	0.239
5 ACETONE	5.261	5.261	0.000	15302	0.25000	0.246
6 PROPANAL	5.508	5.508	0.000	15417	0.25000	0.246
7 CROTONAL	6.428	6.428	0.000	14175	0.25000	0.249
9 BUTYRALS/MEK	7.095	7.095	0.000	12963	0.25000	0.243
10 BENZALDEHYDE	8.108	8.108	0.000	9855	0.25000	0.256
11 ISO-PENTANAL	9.188	9.188	0.000	11199	0.25000	0.247
12 PENTANAL	9.868	9.868	0.000	10971	0.25000	0.248
14 O-TOLUALDEHYDE	10.908	10.908	0.000	9254	0.25000	0.250
15 M,P-TOLUALDEHYDE	11.241	11.241	0.000	15634	0.50000	0.499
16 HEXANAL	12.801	12.801	0.000	10836	0.25000	0.261
17 2,5-Dimethylbenzaldehyde	13.388	13.388	0.000	8638	0.25000	0.278

Data File: /chem/hplcf.i/14Sep2010.b/f0914017.d

Date : 14-SEP-2010 19:33

Client ID: 3

Instrument: hplcf.i

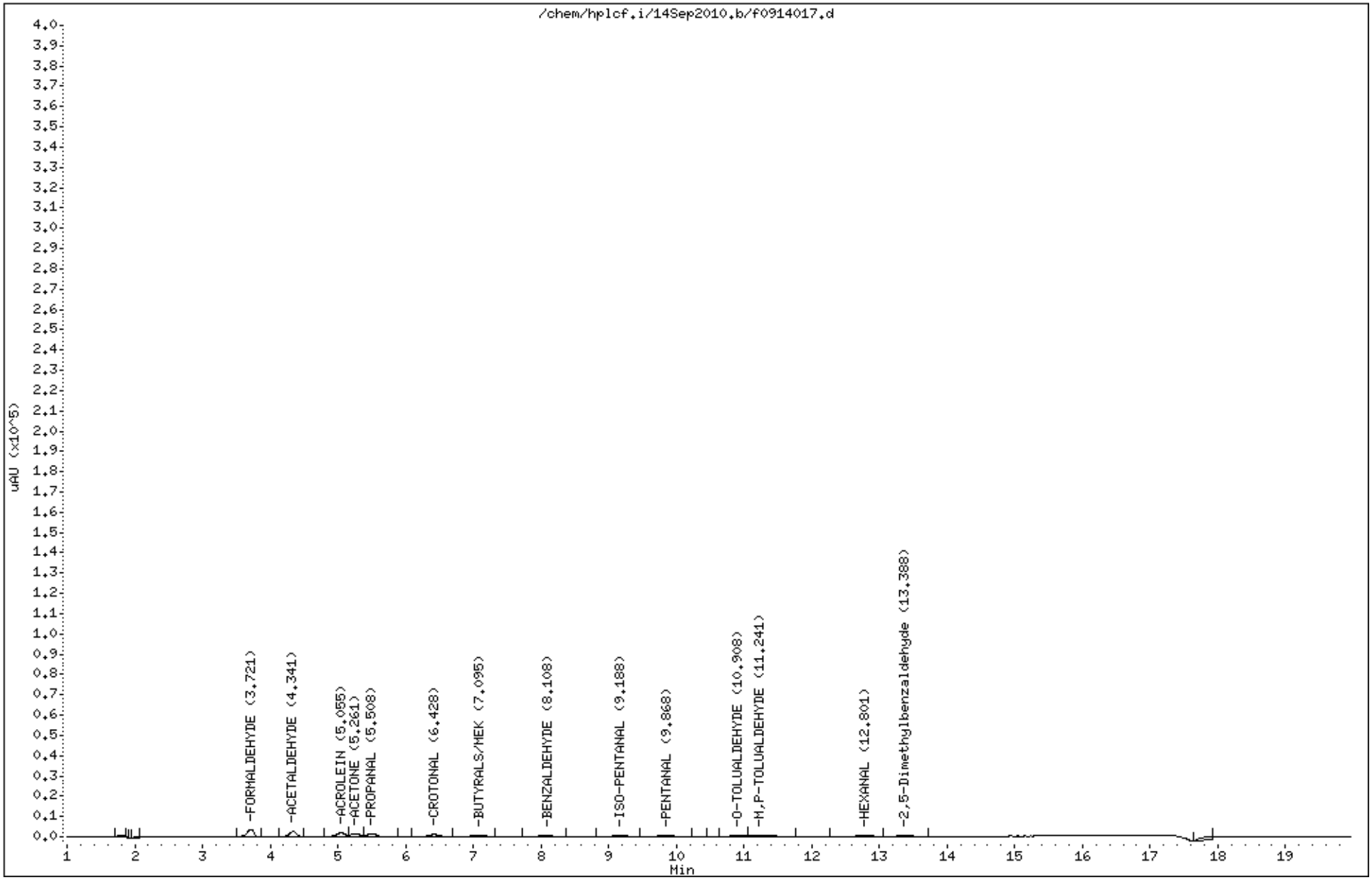
Sample Info: ;1838-34-0.25;3

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914016.d
Lab Smp Id: 1838-34-0.25 Client Smp ID: 3
Inj Date : 14-SEP-2010 19:12
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.25;3
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 19:12 Cal File: f0914016.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.715	3.715	0.000	25598	0.25000	0.228
3 ACETALDEHYDE	4.335	4.335	0.000	20381	0.25000	0.240
4 ACROLEIN	5.041	5.041	0.000	19129	0.25000	0.236
5 ACETONE	5.255	5.255	0.000	14931	0.25000	0.239
6 PROPANAL	5.495	5.495	0.000	15091	0.25000	0.240
7 CROTONAL	6.408	6.408	0.000	13736	0.25000	0.241
9 BUTYRALS/MEK	7.061	7.061	0.000	12498	0.25000	0.233
10 BENZALDEHYDE	8.061	8.061	0.000	9441	0.25000	0.247
11 ISO-PENTANAL	9.148	9.148	0.000	10500	0.25000	0.232
12 PENTANAL	9.821	9.821	0.000	10423	0.25000	0.235
14 O-TOLUALDEHYDE	10.874	10.874	0.000	9638	0.25000	0.260
15 M,P-TOLUALDEHYDE	11.188	11.188	0.000	16415	0.50000	0.524
16 HEXANAL	12.768	12.768	0.000	11060	0.25000	0.269
17 2,5-Dimethylbenzaldehyde	13.354	13.354	0.000	8339	0.25000	0.274

Data File: /chem/hplcf.i/14Sep2010.b/f0914016.d

Date : 14-SEP-2010 19:12

Client ID: 3

Instrument: hplcf.i

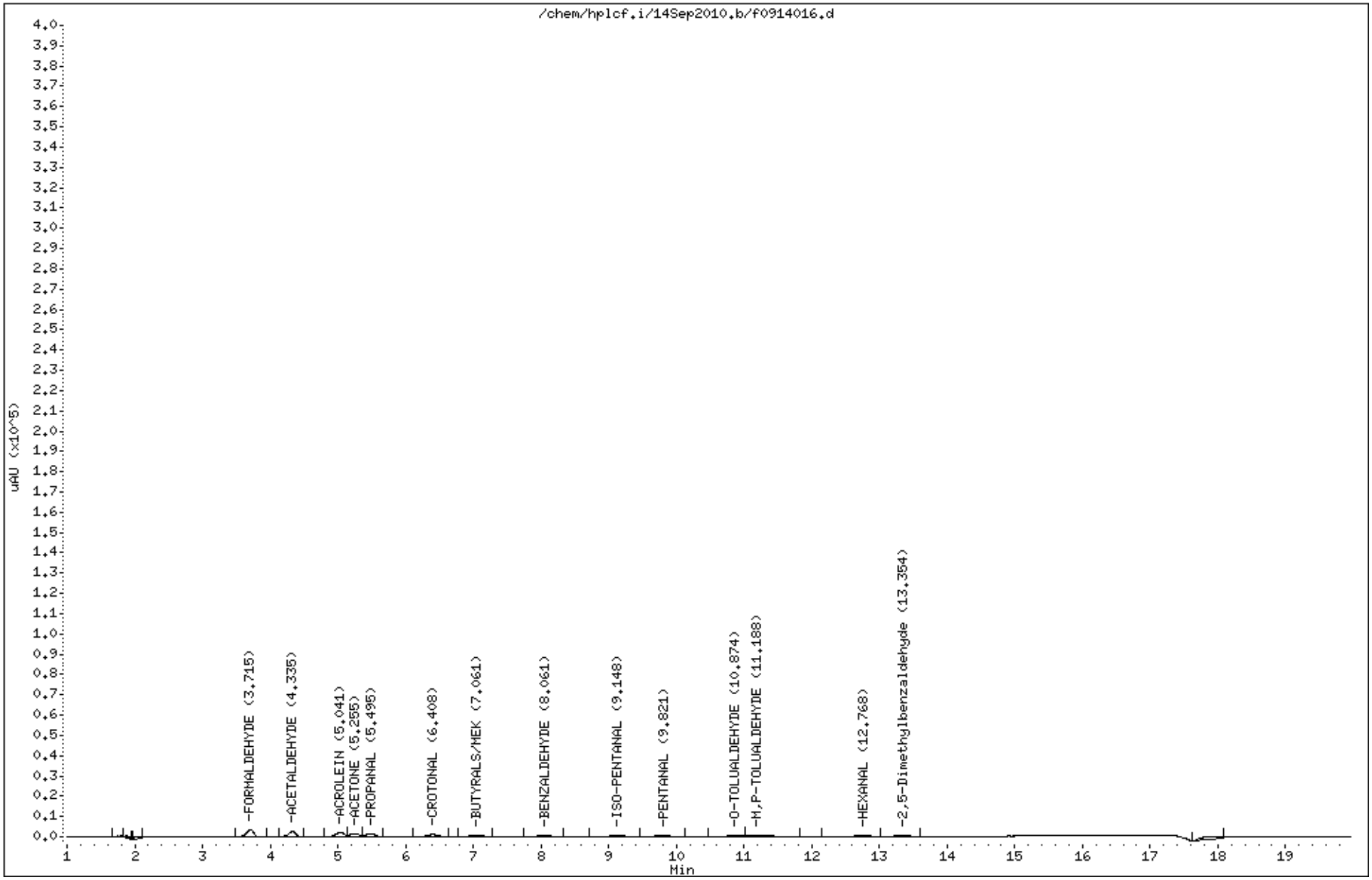
Sample Info: ;1838-34-0.25;3

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914015.d
Lab Smp Id: 1838-34-0.25 Client Smp ID: 3
Inj Date : 14-SEP-2010 18:51
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.25;3
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:51 Cal File: f0914015.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.705	3.705	0.000	25860	0.25000	0.229
3 ACETALDEHYDE	4.325	4.325	0.000	20478	0.25000	0.240
4 ACROLEIN	5.025	5.025	0.000	19230	0.25000	0.234
5 ACETONE	5.238	5.238	0.000	15266	0.25000	0.242
6 PROPANAL	5.472	5.472	0.000	14945	0.25000	0.236
7 CROTONAL	6.385	6.385	0.000	13680	0.25000	0.238
9 BUTYRALS/MEK	7.032	7.032	0.000	12782	0.25000	0.234
10 BENZALDEHYDE	8.005	8.005	0.000	8867	0.25000	0.231
11 ISO-PENTANAL	9.085	9.085	0.000	11141	0.25000	0.241
12 PENTANAL	9.745	9.745	0.000	10552	0.25000	0.235
14 O-TOLUALDEHYDE	10.865	10.865	0.000	9186	0.25000	0.250
15 M,P-TOLUALDEHYDE	11.165	11.165	0.000	15167	0.50000	0.490
16 HEXANAL	12.725	12.725	0.000	9658	0.25000	0.240
17 2,5-Dimethylbenzaldehyde	13.318	13.318	0.000	7658	0.25000	0.258

Data File: /chem/hplcf.i/14Sep2010.b/f0914015.d

Date : 14-SEP-2010 18:51

Client ID: 3

Instrument: hplcf.i

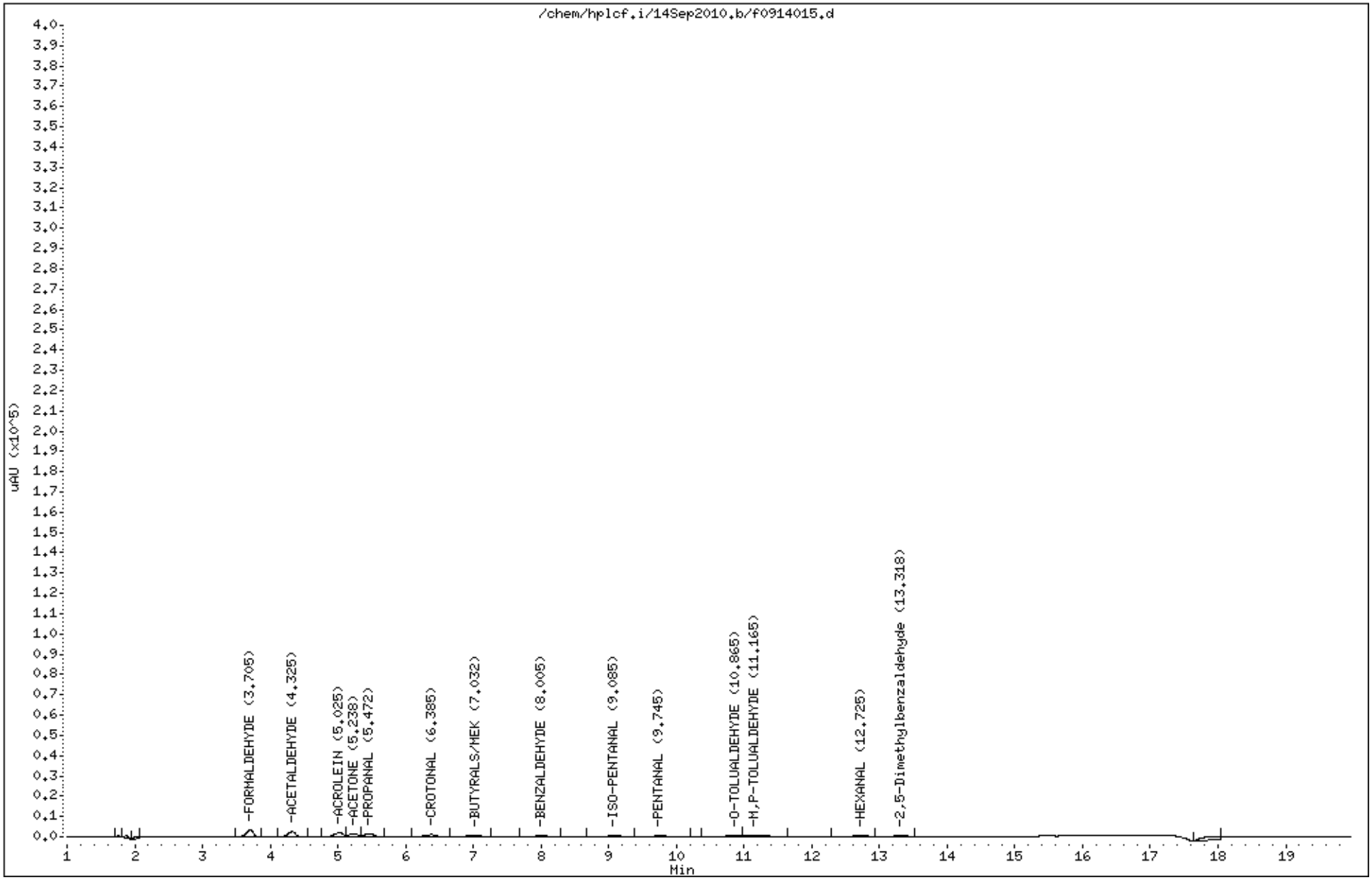
Sample Info: ;1838-34-0.25;3

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914020.d
Lab Smp Id: 1838-34-0.5 Client Smp ID: 4
Inj Date : 14-SEP-2010 20:35
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.5;4
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 20:35 Cal File: f0914020.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.745	3.745	0.000	44981	0.50000	0.420
3 ACETALDEHYDE	4.378	4.378	0.000	42208	0.50000	0.499
4 ACROLEIN	5.098	5.098	0.000	40725	0.50000	0.505
5 ACETONE	5.305	5.305	0.000	31112	0.50000	0.498
6 PROPANAL	5.545	5.545	0.000	31593	0.50000	0.505
7 CROTONAL	6.492	6.492	0.000	28714	0.50000	0.501
9 BUTYRALS/MEK	7.159	7.159	0.000	26645	0.50000	0.495
10 BENZALDEHYDE	8.165	8.165	0.000	18778	0.50000	0.491
11 ISO-PENTANAL	9.285	9.285	0.000	22133	0.50000	0.490
12 PENTANAL	9.979	9.979	0.000	22290	0.50000	0.501
14 O-TOLUALDEHYDE	11.039	11.039	0.000	18580	0.50000	0.501
15 M,P-TOLUALDEHYDE	11.338	11.338	0.000	30599	1.00000	0.980
16 HEXANAL	12.872	12.872	0.000	20818	0.50000	0.503
17 2,5-Dimethylbenzaldehyde	13.465	13.465	0.000	15377	0.50000	0.494

Data File: /chem/hplcf.i/14Sep2010.b/f0914020.d

Date : 14-SEP-2010 20:35

Client ID: 4

Instrument: hplcf.i

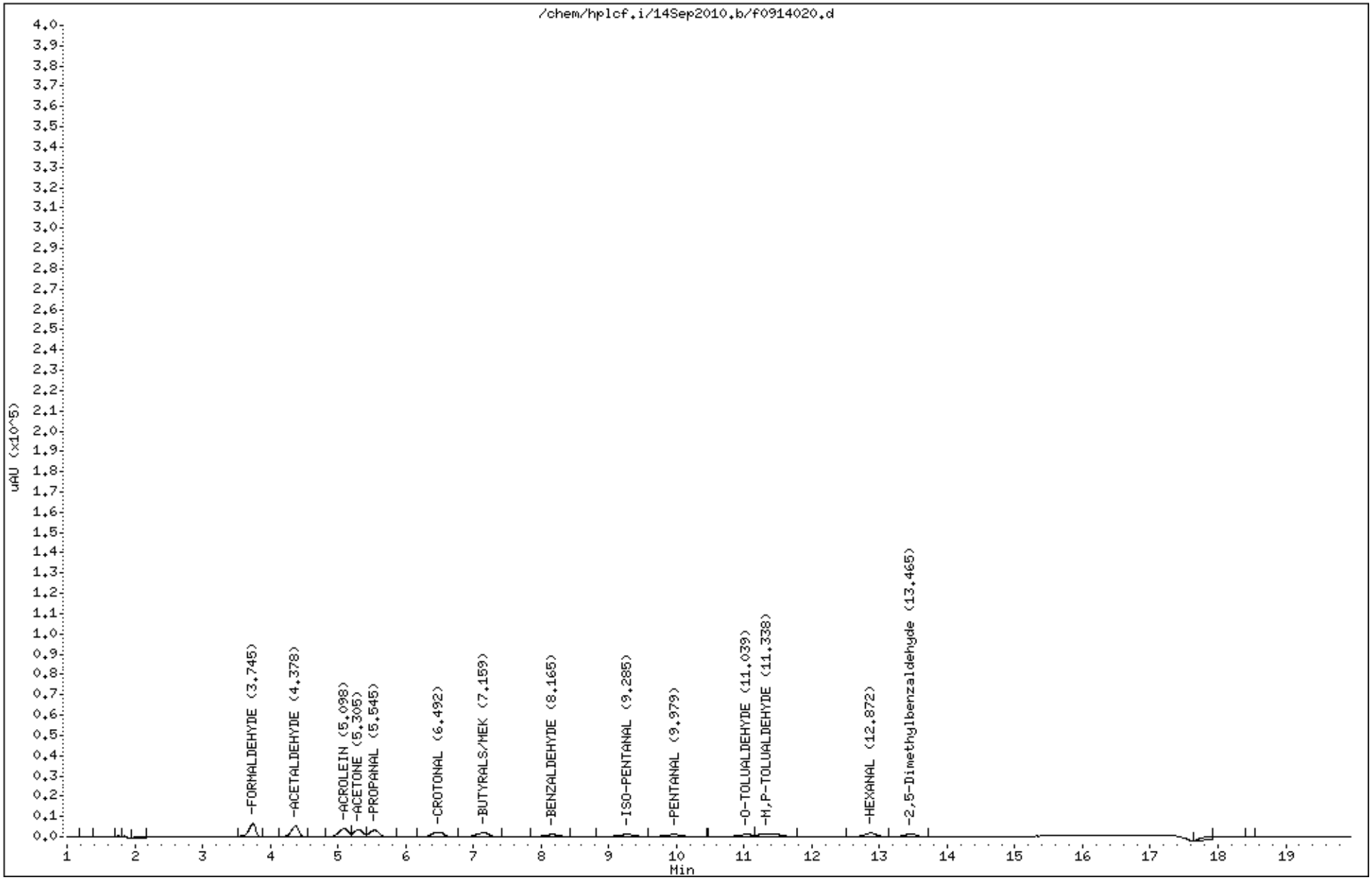
Sample Info: ;1838-34-0.5;4

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914019.d
Lab Smp Id: 1838-34-0.5 Client Smp ID: 4
Inj Date : 14-SEP-2010 20:15
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.5;4
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 20:15 Cal File: f0914019.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.734	3.734	0.000	45340	0.50000	0.419
3 ACETALDEHYDE	4.367	4.367	0.000	41778	0.50000	0.494
4 ACROLEIN	5.081	5.081	0.000	40776	0.50000	0.507
5 ACETONE	5.287	5.287	0.000	31381	0.50000	0.503
6 PROPANAL	5.534	5.534	0.000	31039	0.50000	0.497
7 CROTONAL	6.468	6.468	0.000	29363	0.50000	0.513
9 BUTYRALS/MEK	7.128	7.128	0.000	28301	0.50000	0.525
10 BENZALDEHYDE	8.141	8.141	0.000	18877	0.50000	0.493
11 ISO-PENTANAL	9.241	9.241	0.000	22567	0.50000	0.498
12 PENTANAL	9.921	9.921	0.000	22543	0.50000	0.507
14 O-TOLUALDEHYDE	10.988	10.988	0.000	18387	0.50000	0.496
15 M,P-TOLUALDEHYDE	11.307	11.307	0.000	31335	1.00000	1.00
16 HEXANAL	12.848	12.848	0.000	20238	0.50000	0.489
17 2,5-Dimethylbenzaldehyde	13.434	13.434	0.000	15337	0.50000	0.493

Data File: /chem/hplcf.i/14Sep2010.b/f0914019.d

Date : 14-SEP-2010 20:15

Client ID: 4

Instrument: hplcf.i

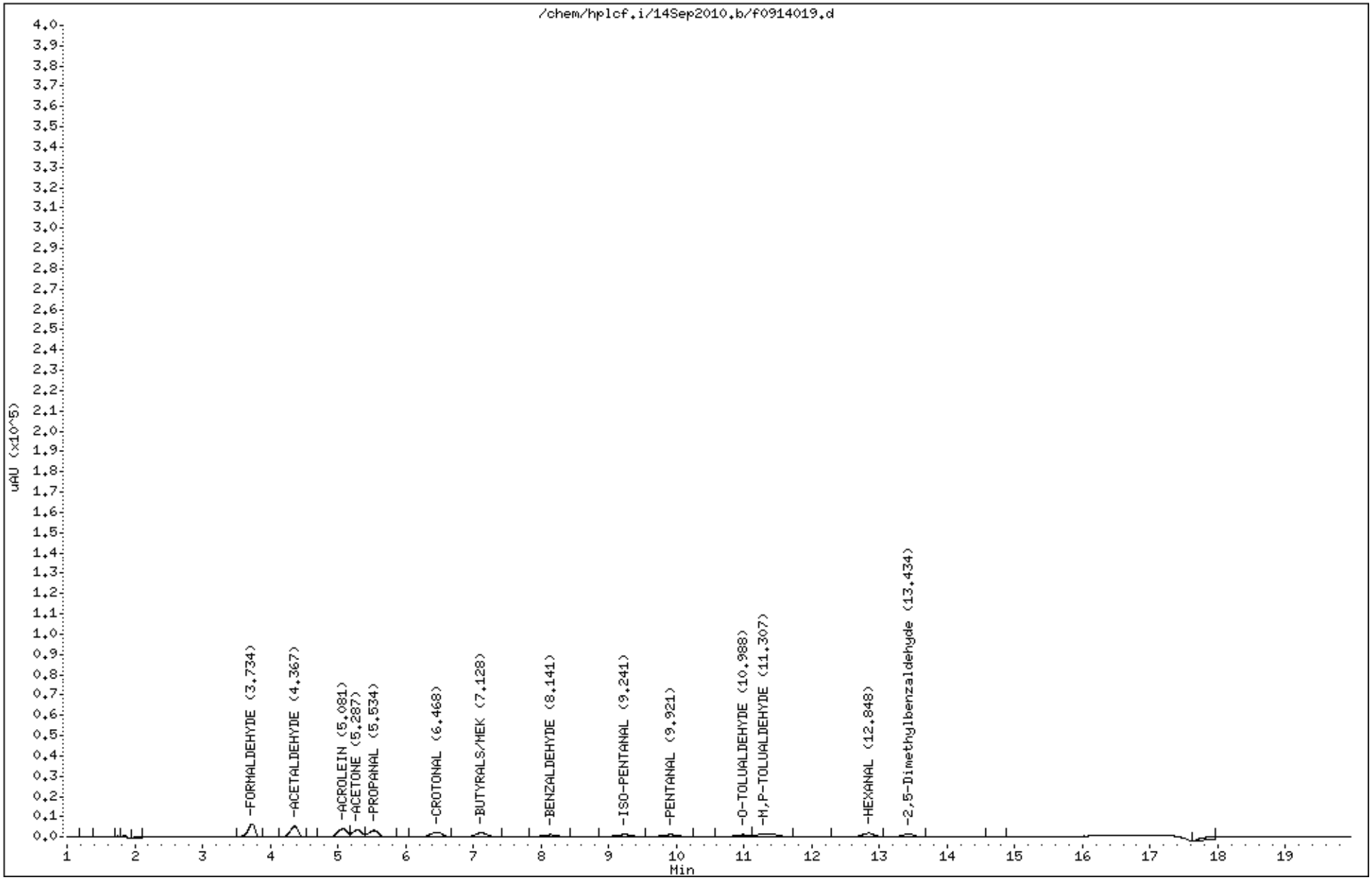
Sample Info: ;1838-34-0.5;4

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914018.d
Lab Smp Id: 1838-34-0.5 Client Smp ID: 4
Inj Date : 14-SEP-2010 19:54
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.5;4
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 19:54 Cal File: f0914018.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.734	3.734	0.000	45518	0.50000	0.416
3 ACETALDEHYDE	4.361	4.361	0.000	42551	0.50000	0.502
4 ACROLEIN	5.081	5.081	0.000	40341	0.50000	0.502
5 ACETONE	5.287	5.287	0.000	31502	0.50000	0.505
6 PROPANAL	5.534	5.534	0.000	30923	0.50000	0.495
7 CROTONAL	6.467	6.467	0.000	28980	0.50000	0.508
9 BUTYRALS/MEK	7.127	7.127	0.000	27428	0.50000	0.512
10 BENZALDEHYDE	8.127	8.127	0.000	19085	0.50000	0.497
11 ISO-PENTANAL	9.227	9.227	0.000	22964	0.50000	0.506
12 PENTANAL	9.907	9.907	0.000	22746	0.50000	0.512
14 O-TOLUALDEHYDE	10.987	10.987	0.000	18857	0.50000	0.508
15 M,P-TOLUALDEHYDE	11.307	11.307	0.000	31298	1.00000	1.000
16 HEXANAL	12.834	12.834	0.000	20952	0.50000	0.505
17 2,5-Dimethylbenzaldehyde	13.421	13.421	0.000	15817	0.50000	0.507

Data File: /chem/hplcf.i/14Sep2010.b/f0914018.d

Date : 14-SEP-2010 19:54

Client ID: 4

Instrument: hplcf.i

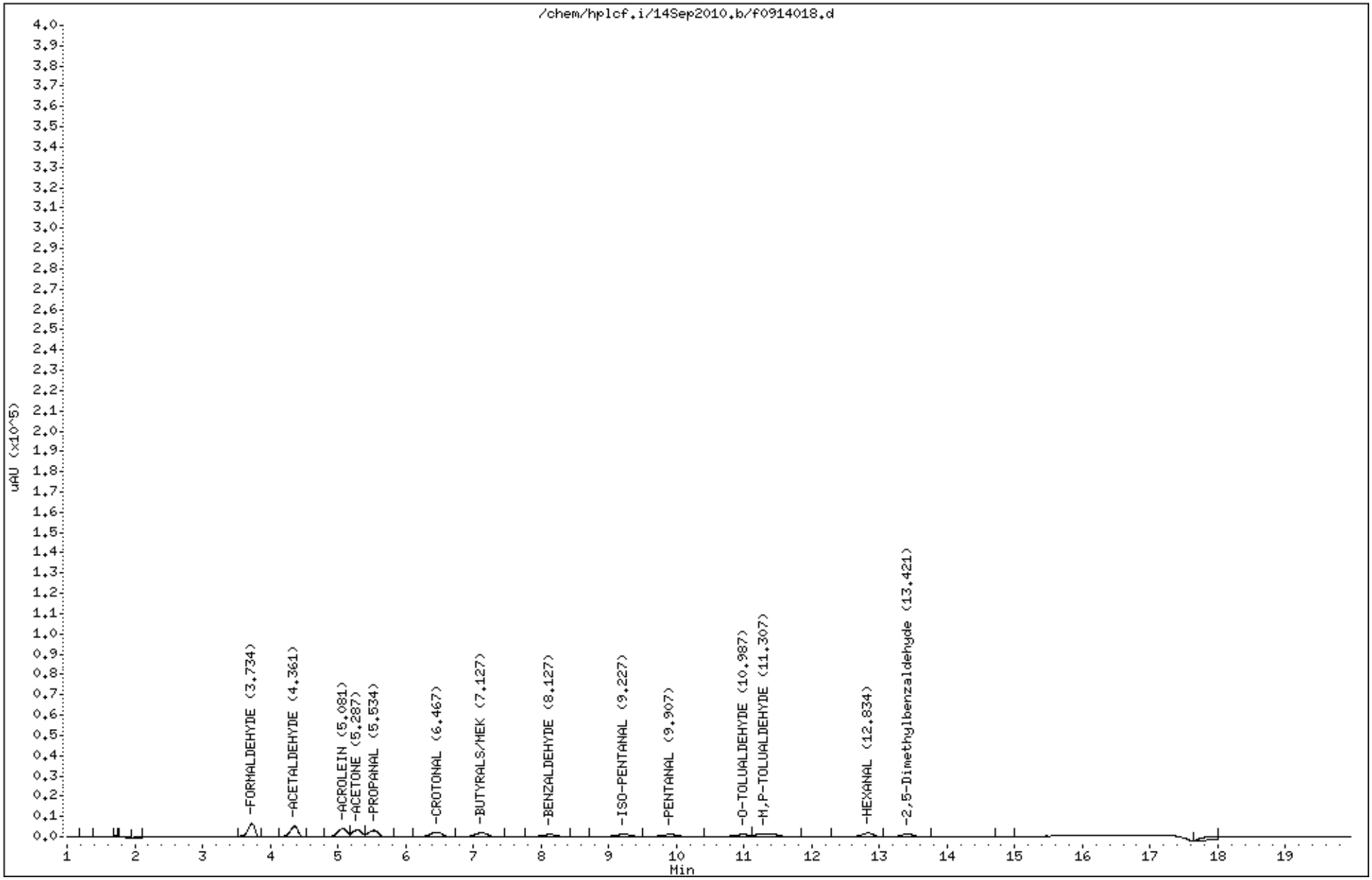
Sample Info: ;1838-34-0.5;4

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914023.d
Lab Smp Id: 1838-34-1.0 Client Smp ID: 5
Inj Date : 14-SEP-2010 21:38
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-1.0;5
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 21:38 Cal File: f0914023.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.739	3.739	0.000	105489	1.00000	0.988
3 ACETALDEHYDE	4.365	4.365	0.000	82932	1.00000	0.984
4 ACROLEIN	5.085	5.085	0.000	78338	1.00000	0.980
5 ACETONE	5.292	5.292	0.000	60890	1.00000	0.981
6 PROPANAL	5.539	5.539	0.000	61135	1.00000	0.983
7 CROTONAL	6.472	6.472	0.000	55126	1.00000	0.971
9 BUTYRALS/MEK	7.139	7.139	0.000	52870	1.00000	0.986
10 BENZALDEHYDE	8.159	8.159	0.000	36794	1.00000	0.970
11 ISO-PENTANAL	9.265	9.265	0.000	44316	1.00000	0.987
12 PENTANAL	9.939	9.939	0.000	43634	1.00000	0.987
14 O-TOLUALDEHYDE	11.019	11.019	0.000	35016	1.00000	0.957
15 M,P-TOLUALDEHYDE	11.325	11.325	0.000	59329	2.00000	1.93
16 HEXANAL	12.852	12.852	0.000	39118	1.00000	0.957
17 2,5-Dimethylbenzaldehyde	13.445	13.445	0.000	28339	1.00000	0.929

Data File: /chem/hplcf.i/14Sep2010.b/f0914023.d

Date : 14-SEP-2010 21:38

Client ID: 5

Instrument: hplcf.i

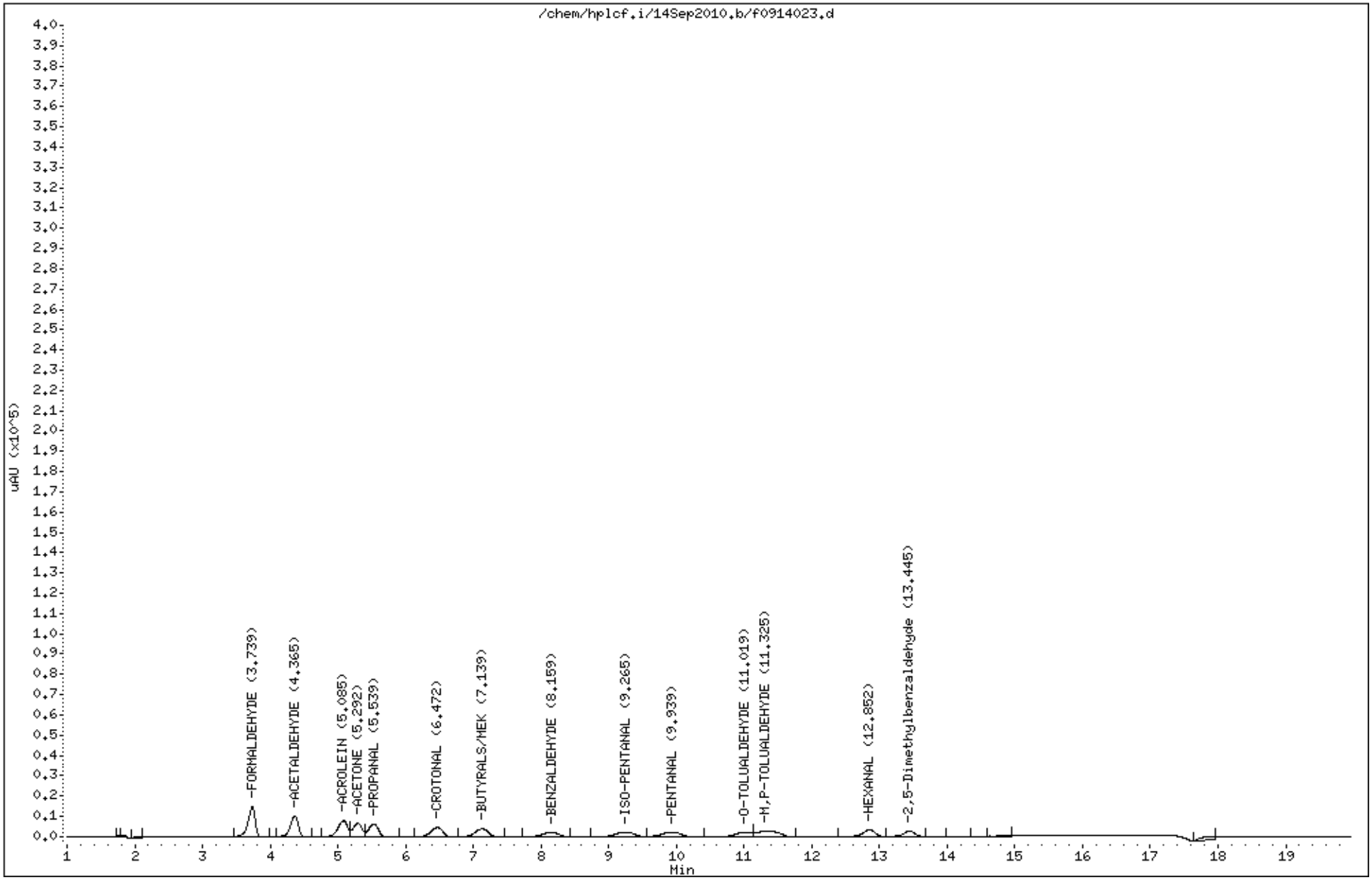
Sample Info: ;1838-34-1.0;5

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914022.d
Lab Smp Id: 1838-34-1.0 Client Smp ID: 5
Inj Date : 14-SEP-2010 21:17
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-1.0;5
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 21:17 Cal File: f0914022.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.747	3.747	0.000	105394	1.00000	0.987
3 ACETALDEHYDE	4.373	4.373	0.000	83089	1.00000	0.985
4 ACROLEIN	5.093	5.093	0.000	77739	1.00000	0.971
5 ACETONE	5.306	5.306	0.000	61069	1.00000	0.982
6 PROPANAL	5.546	5.546	0.000	61304	1.00000	0.985
7 CROTONAL	6.487	6.487	0.000	55721	1.00000	0.979
9 BUTYRALS/MEK	7.153	7.153	0.000	52676	1.00000	0.981
10 BENZALDEHYDE	8.180	8.180	0.000	37230	1.00000	0.979
11 ISO-PENTANAL	9.273	9.273	0.000	43396	1.00000	0.965
12 PENTANAL	9.960	9.960	0.000	42834	1.00000	0.968
14 O-TOLUALDEHYDE	11.027	11.027	0.000	35079	1.00000	0.955
15 M,P-TOLUALDEHYDE	11.340	11.340	0.000	58406	2.00000	1.89
16 HEXANAL	12.867	12.867	0.000	39102	1.00000	0.952
17 2,5-Dimethylbenzaldehyde	13.453	13.453	0.000	29132	1.00000	0.948

Data File: /chem/hplcf.i/14Sep2010.b/f0914022.d

Date : 14-SEP-2010 21:17

Client ID: 5

Instrument: hplcf.i

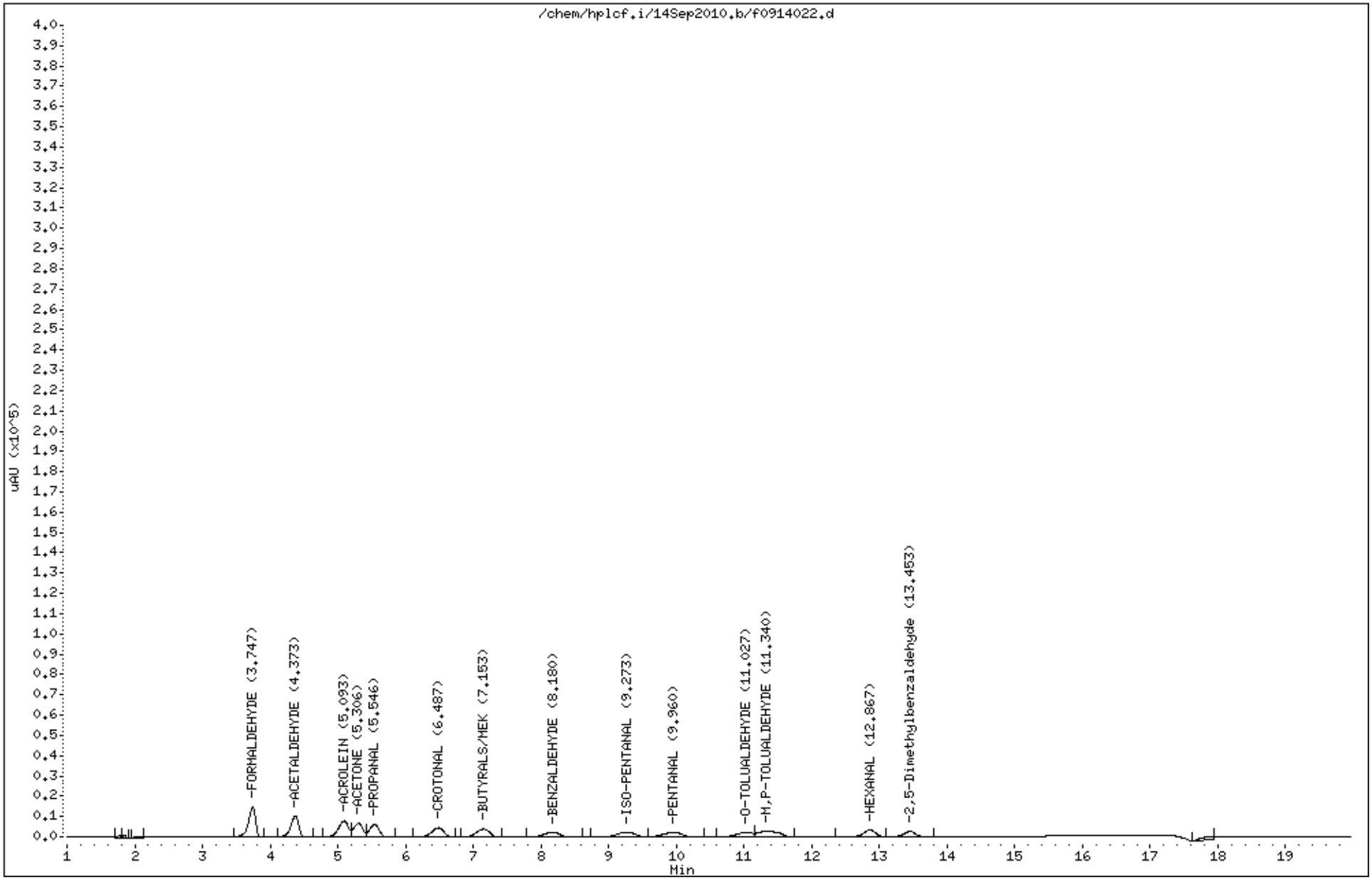
Sample Info: ;1838-34-1.0;5

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914021.d
Lab Smp Id: 1838-34-1.0 Client Smp ID: 5
Inj Date : 14-SEP-2010 20:56
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-1.0;5
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 20:56 Cal File: f0914021.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.740	3.740	0.000	105805	1.00000	0.990
3 ACETALDEHYDE	4.374	4.374	0.000	82817	1.00000	0.981
4 ACROLEIN	5.094	5.094	0.000	77980	1.00000	0.971
5 ACETONE	5.301	5.301	0.000	60932	1.00000	0.979
6 PROPANAL	5.547	5.547	0.000	60789	1.00000	0.975
7 CROTONAL	6.487	6.487	0.000	55018	1.00000	0.964
9 BUTYRALS/MEK	7.147	7.147	0.000	53240	1.00000	0.990
10 BENZALDEHYDE	8.161	8.161	0.000	36832	1.00000	0.967
11 ISO-PENTANAL	9.274	9.274	0.000	44231	1.00000	0.980
12 PENTANAL	9.960	9.960	0.000	43614	1.00000	0.982
14 O-TOLUALDEHYDE	11.021	11.021	0.000	35206	1.00000	0.954
15 M,P-TOLUALDEHYDE	11.334	11.334	0.000	59111	2.00000	1.90
16 HEXANAL	12.860	12.860	0.000	39766	1.00000	0.964
17 2,5-Dimethylbenzaldehyde	13.447	13.447	0.000	28909	1.00000	0.936

Data File: /chem/hplcf.i/14Sep2010.b/f0914021.d

Date : 14-SEP-2010 20:56

Client ID: 5

Instrument: hplcf.i

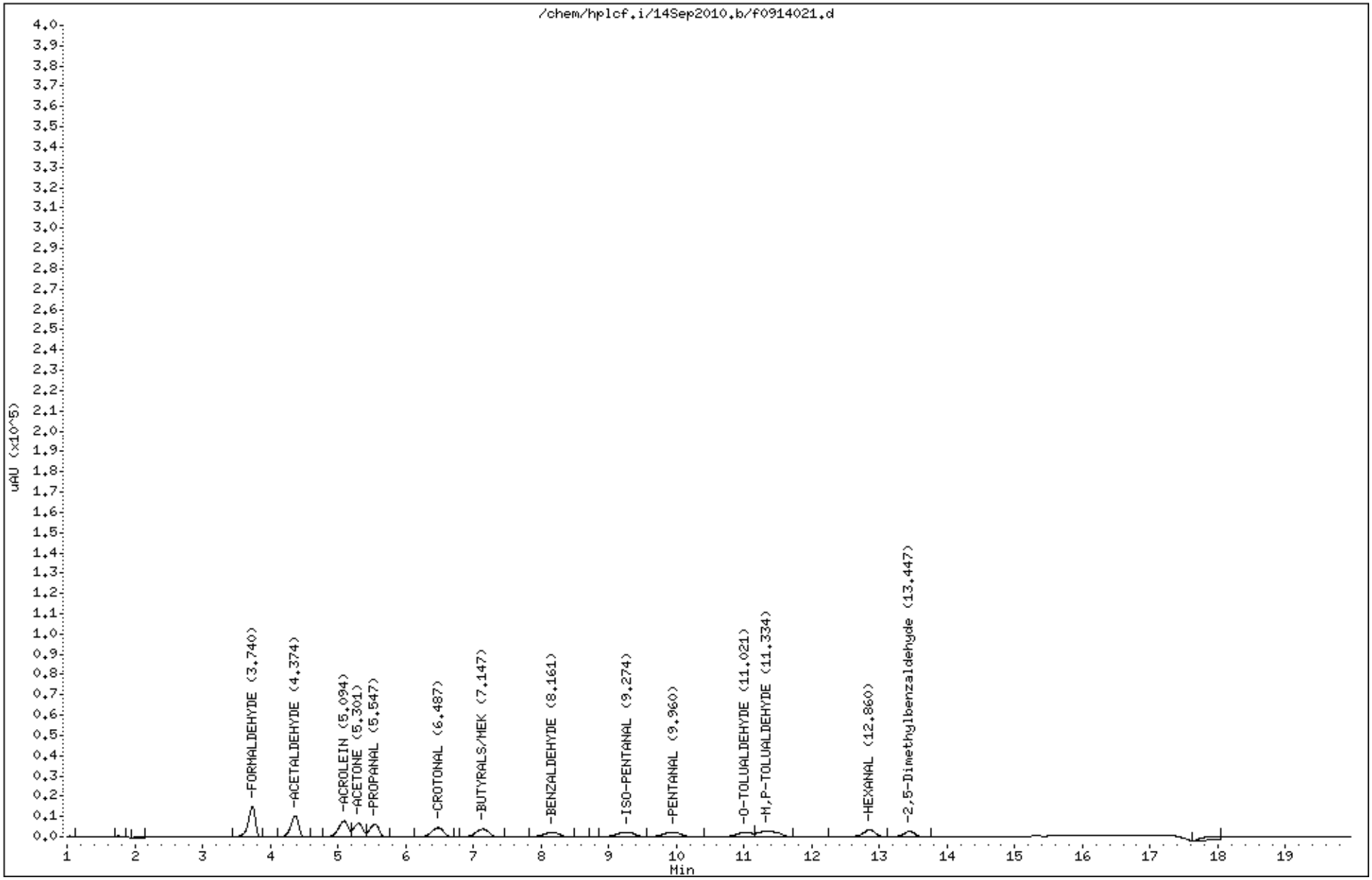
Sample Info: ;1838-34-1.0;5

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914026.d
Lab Smp Id: 1838-32-4.0 Client Smp ID: 6
Inj Date : 14-SEP-2010 22:41
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-32-4.0;6
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:29 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 22:41 Cal File: f0914026.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.737	3.737	0.000	450621	4.00000	4.01
3 ACETALDEHYDE	4.371	4.371	0.000	352416	4.00000	4.00
4 ACROLEIN	5.091	5.091	0.000	335424	4.00000	4.00
5 ACETONE	5.298	5.298	0.000	258255	4.00000	4.04
6 PROPANAL	5.537	5.537	0.000	256942	4.00000	3.98
7 CROTONAL	6.478	6.478	0.000	233257	4.00000	4.00
9 BUTYRALS/MEK	7.144	7.144	0.000	222115	4.00000	3.99
10 BENZALDEHYDE	8.158	8.158	0.000	157668	4.00000	4.01
11 ISO-PENTANAL	9.258	9.258	0.000	187027	4.00000	4.00
12 PENTANAL	9.938	9.938	0.000	182923	4.00000	3.99
14 O-TOLUALDEHYDE	11.011	11.011	0.000	147236	4.00000	4.02
15 M,P-TOLUALDEHYDE	11.324	11.324	0.000	248923	8.00000	7.99
16 HEXANAL	12.851	12.851	0.000	163558	4.00000	4.01
17 2,5-Dimethylbenzaldehyde	13.444	13.444	0.000	117296	4.00000	3.99

Data File: /chem/hplcf.i/14Sep2010.b/f0914026.d

Date : 14-SEP-2010 22:41

Client ID: 6

Instrument: hplcf.i

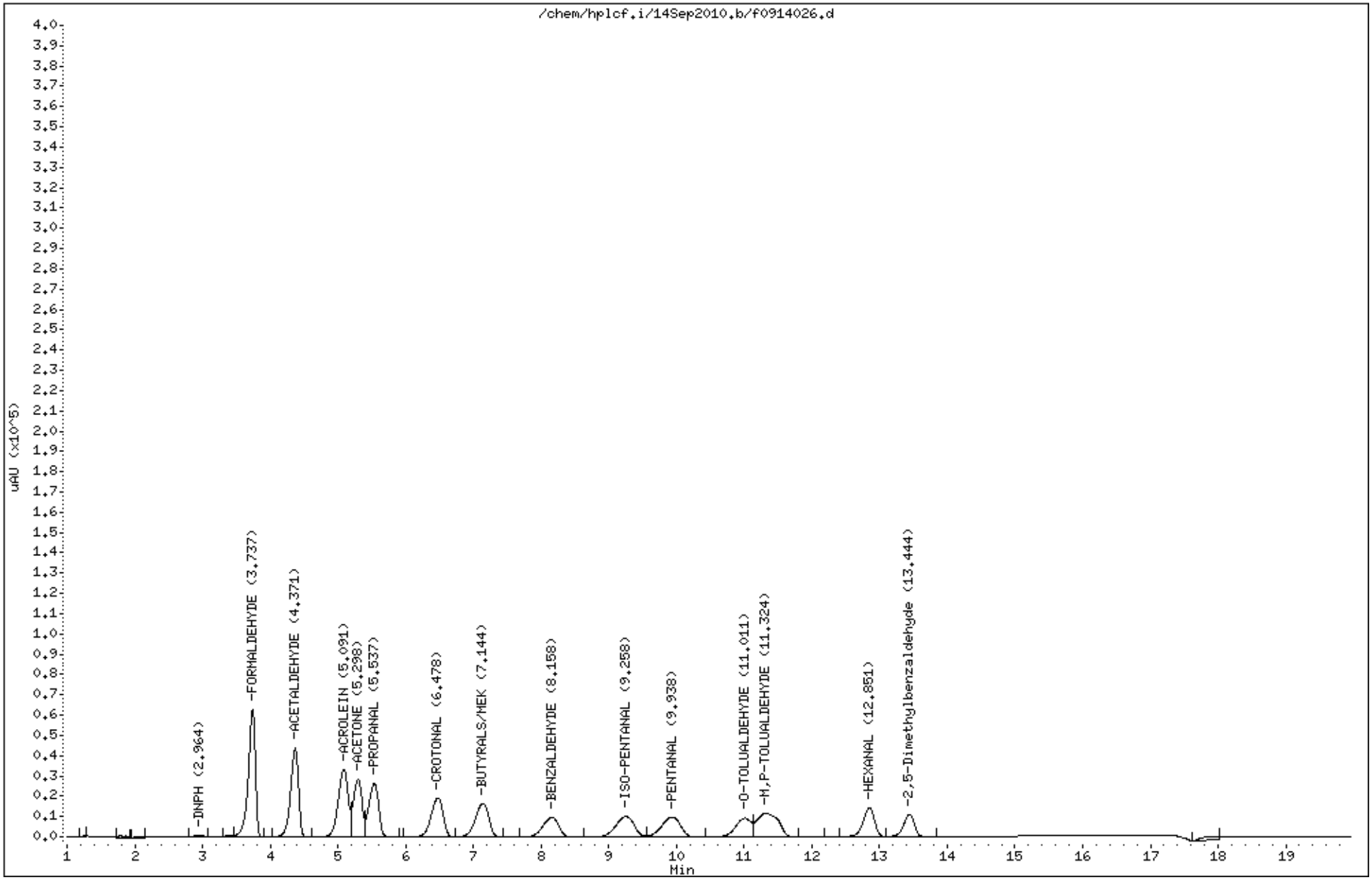
Sample Info: ;1838-32-4.0;6

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914025.d
Lab Smp Id: 1838-32-4.0 Client Smp ID: 6
Inj Date : 14-SEP-2010 22:20
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-32-4.0;6
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:29 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 22:20 Cal File: f0914025.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.742	3.742	0.000	449099	4.00000	4.00
3 ACETALDEHYDE	4.375	4.375	0.000	352551	4.00000	4.01
4 ACROLEIN	5.095	5.095	0.000	334904	4.00000	4.00
5 ACETONE	5.302	5.302	0.000	254054	4.00000	4.00
6 PROPANAL	5.542	5.542	0.000	258747	4.00000	3.99
7 CROTONAL	6.482	6.482	0.000	233603	4.00000	4.01
9 BUTYRALS/MEK	7.142	7.142	0.000	223717	4.00000	4.02
10 BENZALDEHYDE	8.162	8.162	0.000	157371	4.00000	4.01
11 ISO-PENTANAL	9.262	9.262	0.000	185991	4.00000	3.98
12 PENTANAL	9.942	9.942	0.000	182460	4.00000	3.97
14 O-TOLUALDEHYDE	11.009	11.009	0.000	145838	4.00000	3.99
15 M,P-TOLUALDEHYDE	11.322	11.322	0.000	249513	8.00000	8.01
16 HEXANAL	12.849	12.849	0.000	163297	4.00000	4.00
17 2,5-Dimethylbenzaldehyde	13.442	13.442	0.000	117509	4.00000	3.99

Data File: /chem/hplcf.i/14Sep2010.b/f0914025.d

Date : 14-SEP-2010 22:20

Client ID: 6

Instrument: hplcf.i

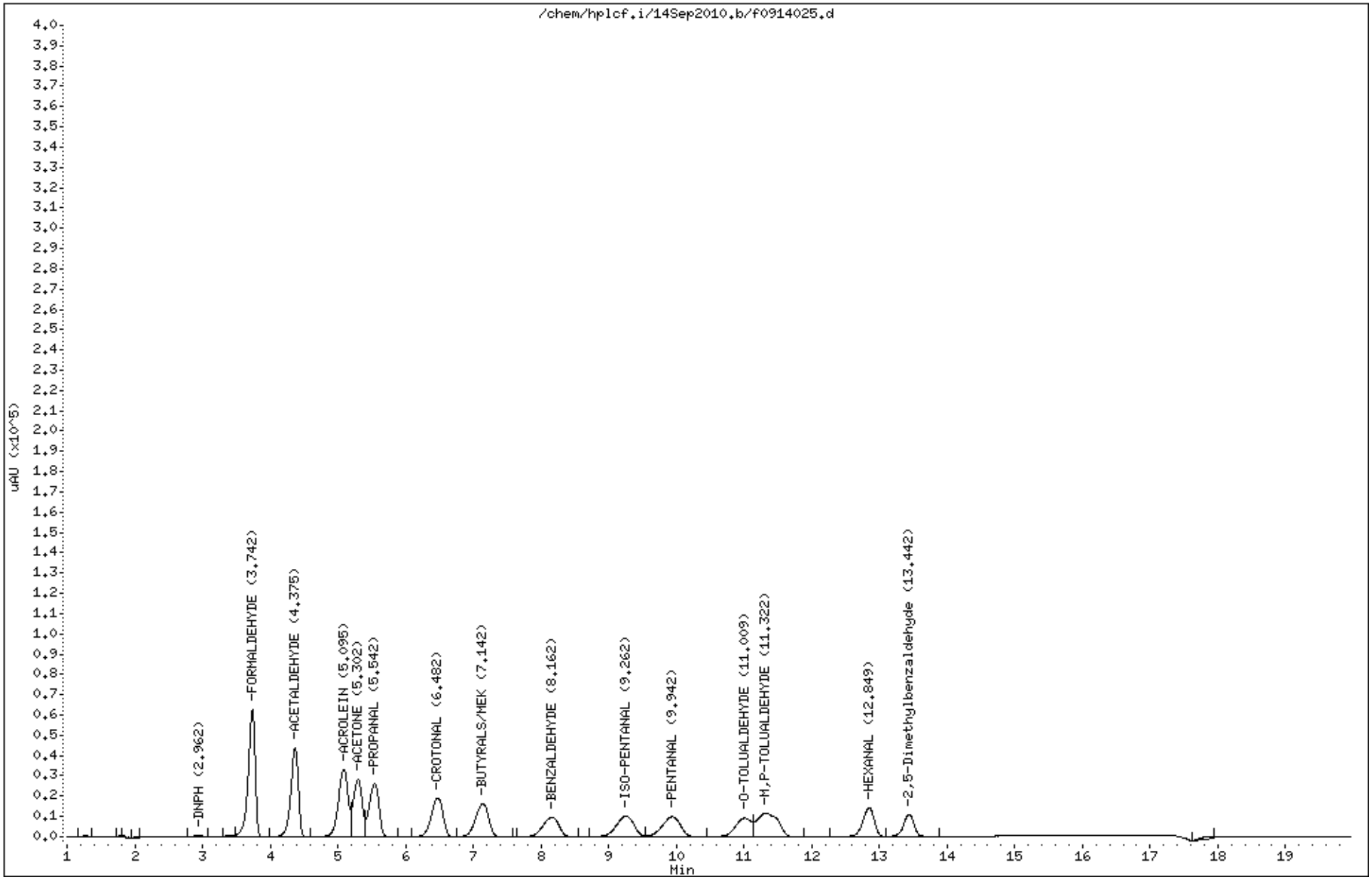
Sample Info: ;1838-32-4.0;6

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914024.d
Lab Smp Id: 1838-32-4.0 Client Smp ID: 6
Inj Date : 14-SEP-2010 21:59
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-32-4.0;6
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:29 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 21:59 Cal File: f0914024.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.742	3.742	0.000	448858	4.00000	4.00
3 ACETALDEHYDE	4.375	4.375	0.000	351227	4.00000	4.00
4 ACROLEIN	5.096	5.096	0.000	334499	4.00000	4.00
5 ACETONE	5.302	5.302	0.000	254555	4.00000	4.00
6 PROPANAL	5.542	5.542	0.000	259688	4.00000	4.00
7 CROTONAL	6.482	6.482	0.000	232736	4.00000	4.00
9 BUTYRALS/MEK	7.142	7.142	0.000	221997	4.00000	4.00
10 BENZALDEHYDE	8.162	8.162	0.000	156893	4.00000	4.00
11 ISO-PENTANAL	9.269	9.269	0.000	187764	4.00000	4.00
12 PENTANAL	9.956	9.956	0.000	184847	4.00000	4.00
14 O-TOLUALDEHYDE	11.022	11.022	0.000	146742	4.00000	4.00
15 M,P-TOLUALDEHYDE	11.335	11.335	0.000	249029	8.00000	8.00
16 HEXANAL	12.855	12.855	0.000	163040	4.00000	4.00
17 2,5-Dimethylbenzaldehyde	13.449	13.449	0.000	118085	4.00000	4.00

Data File: /chem/hplcf.i/14Sep2010.b/f0914024.d

Date : 14-SEP-2010 21:59

Client ID: 6

Instrument: hplcf.i

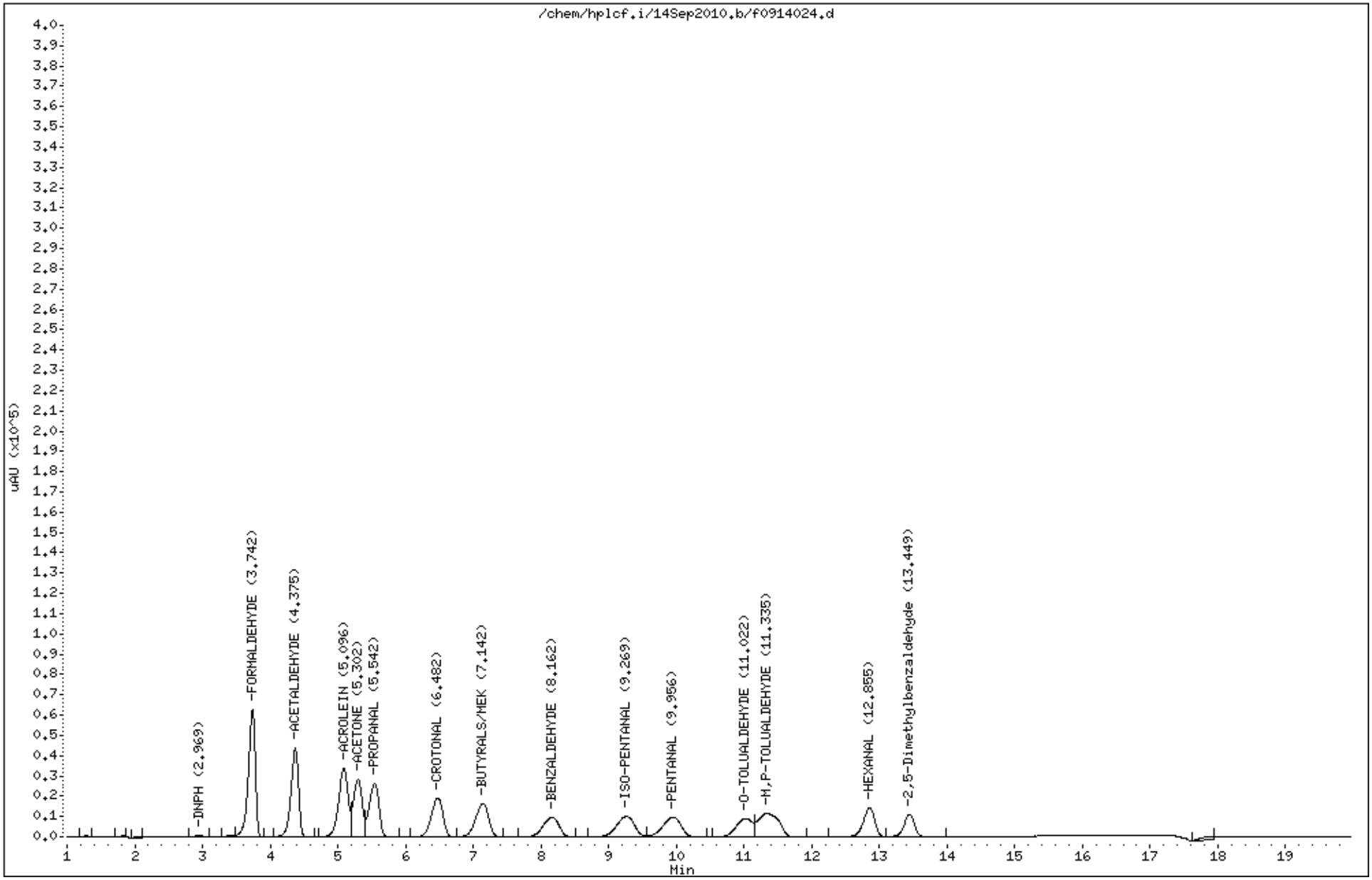
Sample Info: ;1838-32-4.0;6

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914029.d
Lab Smp Id: 1838-34-10.0 Client Smp ID: 7
Inj Date : 14-SEP-2010 23:44
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-10.0;7
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 23:44 Cal File: f0914029.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.737	3.737	0.000	1086878	10.0000	10.2
3 ACETALDEHYDE	4.370	4.370	0.000	830306	10.0000	9.88
4 ACROLEIN	5.090	5.090	0.000	787034	10.0000	9.87
5 ACETONE	5.297	5.297	0.000	598880	10.0000	9.71
6 PROPANAL	5.537	5.537	0.000	611548	10.0000	9.88
7 CROTONAL	6.477	6.477	0.000	548148	10.0000	9.72
9 BUTYRALS/MEK	7.137	7.137	0.000	524094	10.0000	9.82
10 BENZALDEHYDE	8.157	8.157	0.000	371534	10.0000	9.84
11 ISO-PENTANAL	9.250	9.250	0.000	438929	10.0000	9.82
12 PENTANAL	9.937	9.937	0.000	430061	10.0000	9.78
14 O-TOLUALDEHYDE	11.010	11.010	0.000	347525	10.0000	9.59
15 M,P-TOLUALDEHYDE	11.323	11.323	0.000	585343	20.0000	19.2
16 HEXANAL	12.850	12.850	0.000	383168	10.0000	9.49
17 2,5-Dimethylbenzaldehyde	13.443	13.443	0.000	275222	10.0000	9.20

Data File: /chem/hplcf.i/14Sep2010.b/f0914029.d

Date : 14-SEP-2010 23:44

Client ID: 7

Instrument: hplcf.i

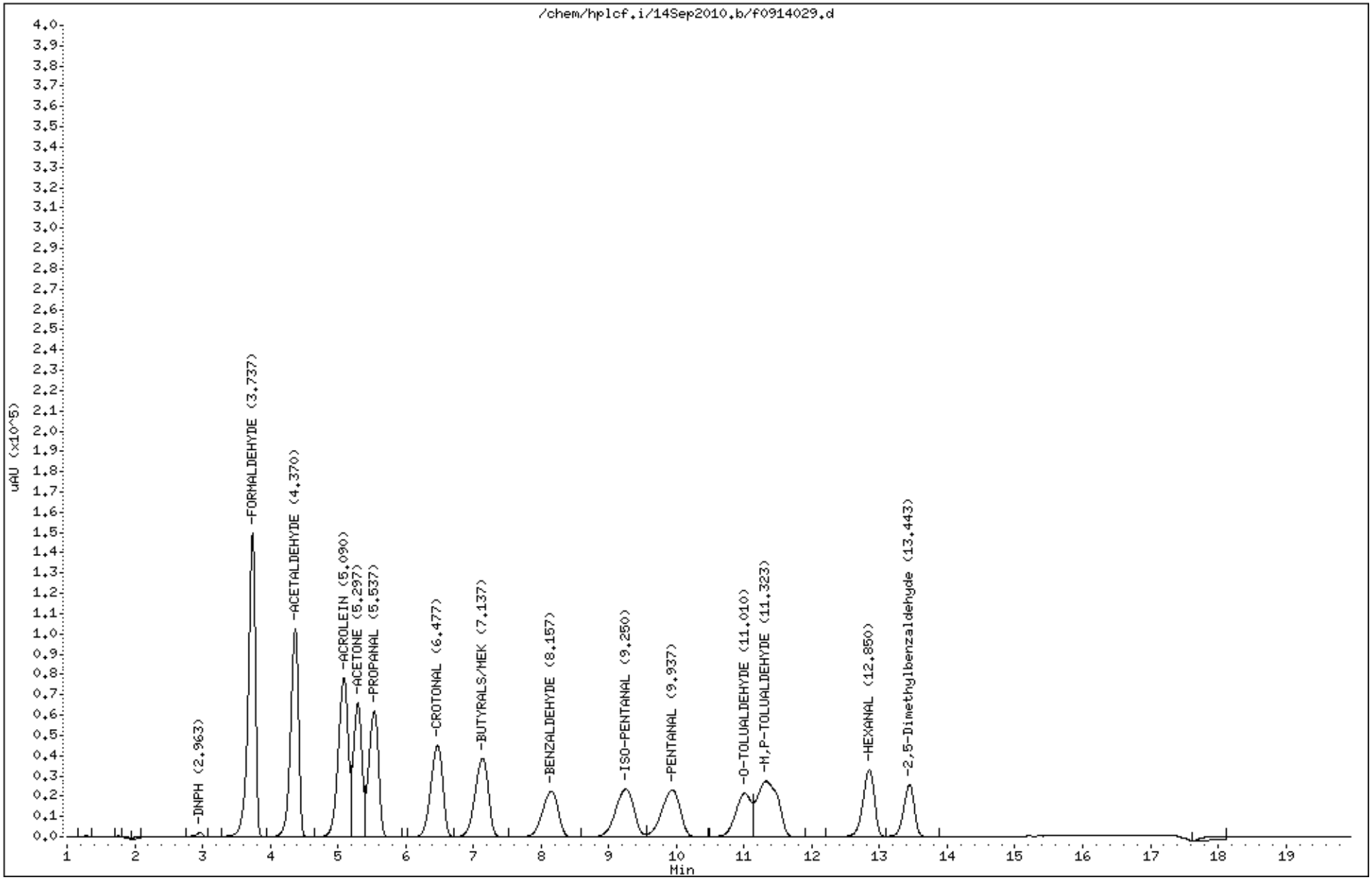
Sample Info: ;1838-34-10.0;7

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914028.d
Lab Smp Id: 1838-34-10.0 Client Smp ID: 7
Inj Date : 14-SEP-2010 23:23
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-10.0;7
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 23:23 Cal File: f0914028.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.738	3.738	0.000	1087253	10.0000	10.2
3 ACETALDEHYDE	4.372	4.372	0.000	831049	10.0000	9.88
4 ACROLEIN	5.092	5.092	0.000	792573	10.0000	9.93
5 ACETONE	5.298	5.298	0.000	597052	10.0000	9.66
6 PROPANAL	5.538	5.538	0.000	607745	10.0000	9.81
7 CROTONAL	6.478	6.478	0.000	548708	10.0000	9.71
9 BUTYRALS/MEK	7.138	7.138	0.000	524621	10.0000	9.81
10 BENZALDEHYDE	8.158	8.158	0.000	371558	10.0000	9.83
11 ISO-PENTANAL	9.258	9.258	0.000	439003	10.0000	9.81
12 PENTANAL	9.945	9.945	0.000	430505	10.0000	9.77
14 O-TOLUALDEHYDE	11.012	11.012	0.000	346558	10.0000	9.54
15 M,P-TOLUALDEHYDE	11.325	11.325	0.000	588014	20.0000	19.2
16 HEXANAL	12.852	12.852	0.000	383202	10.0000	9.46
17 2,5-Dimethylbenzaldehyde	13.445	13.445	0.000	275778	10.0000	9.16

Data File: /chem/hplcf.i/14Sep2010.b/f0914028.d

Date : 14-SEP-2010 23:23

Client ID: 7

Instrument: hplcf.i

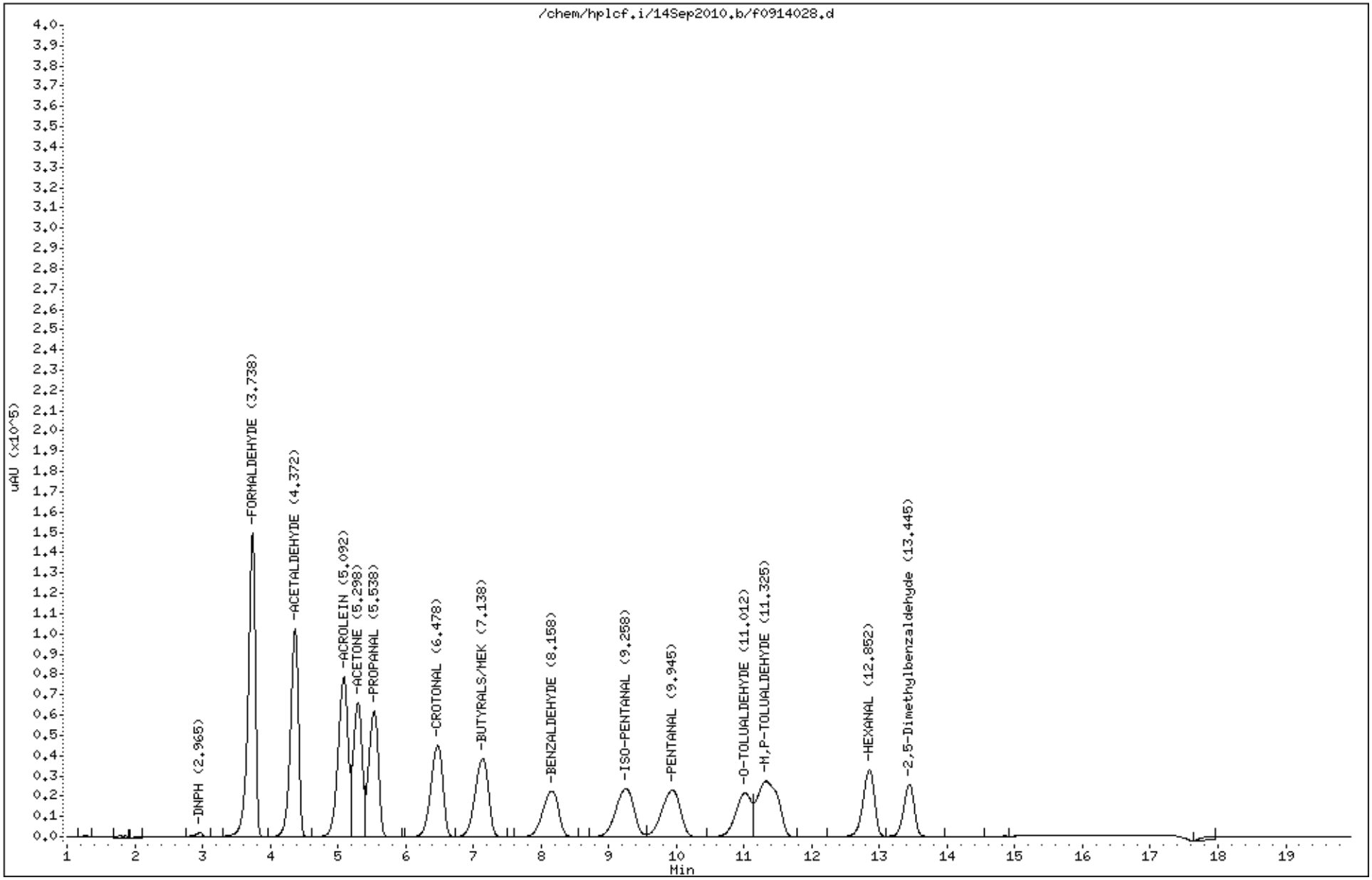
Sample Info: ;1838-34-10.0;7

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914027.d
Lab Smp Id: 1838-34-10.0 Client Smp ID: 7
Inj Date : 14-SEP-2010 23:02
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-10.0;7
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 23:02 Cal File: f0914027.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.738	3.738	0.000	1086932	10.0000	10.2
3 ACETALDEHYDE	4.371	4.371	0.000	830813	10.0000	9.87
4 ACROLEIN	5.091	5.091	0.000	788842	10.0000	9.88
5 ACETONE	5.298	5.298	0.000	606307	10.0000	9.79
6 PROPANAL	5.544	5.544	0.000	602991	10.0000	9.72
7 CROTONAL	6.478	6.478	0.000	548541	10.0000	9.69
9 BUTYRALS/MEK	7.144	7.144	0.000	524696	10.0000	9.80
10 BENZALDEHYDE	8.164	8.164	0.000	371046	10.0000	9.80
11 ISO-PENTANAL	9.264	9.264	0.000	439896	10.0000	9.81
12 PENTANAL	9.944	9.944	0.000	430942	10.0000	9.76
14 O-TOLUALDEHYDE	11.018	11.018	0.000	348270	10.0000	9.55
15 M,P-TOLUALDEHYDE	11.331	11.331	0.000	585512	20.0000	19.1
16 HEXANAL	12.851	12.851	0.000	383719	10.0000	9.43
17 2,5-Dimethylbenzaldehyde	13.444	13.444	0.000	275329	10.0000	9.09

Data File: /chem/hplcf.i/14Sep2010.b/f0914027.d

Date : 14-SEP-2010 23:02

Client ID: 7

Instrument: hplcf.i

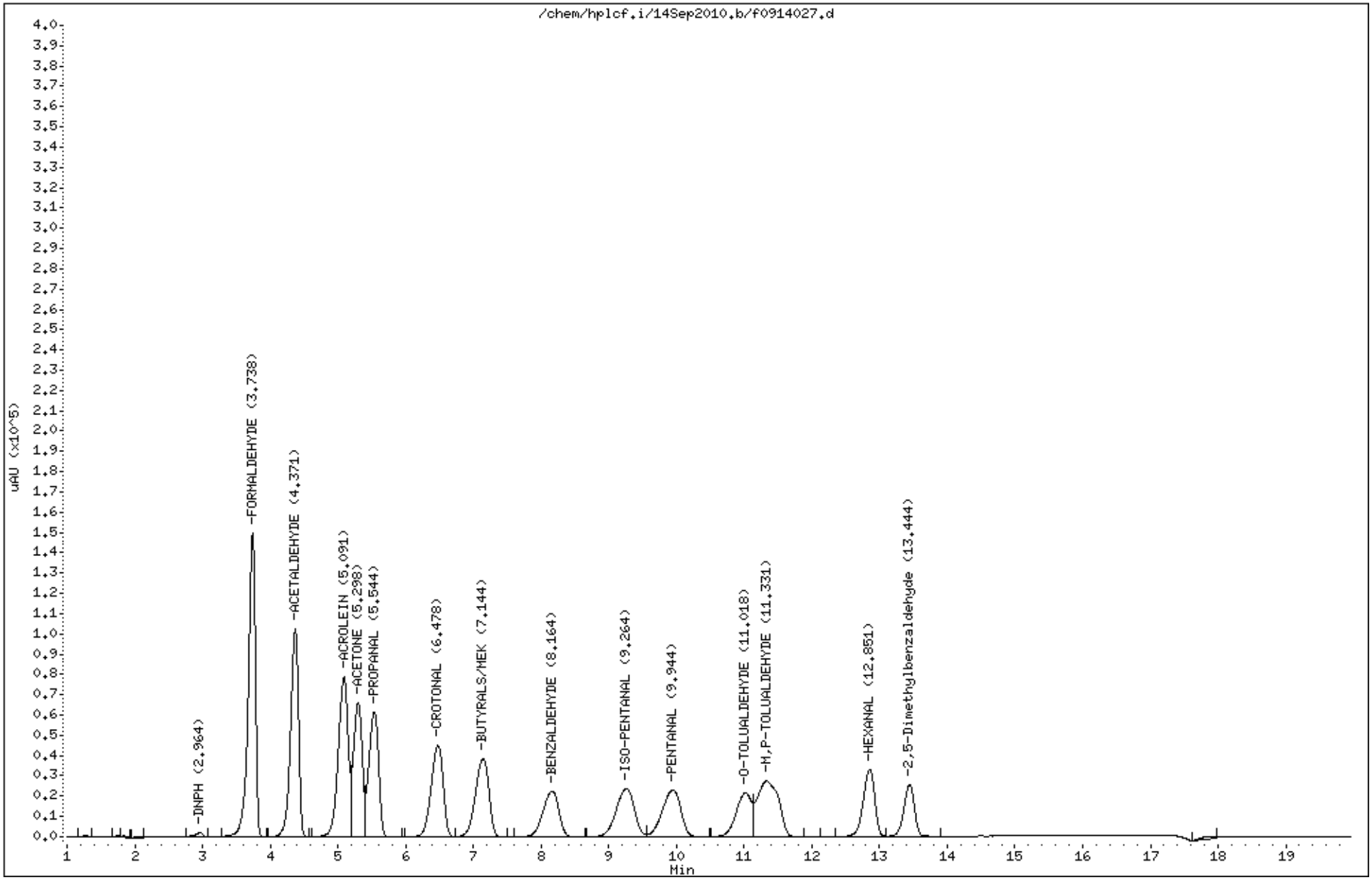
Sample Info: ;1838-34-10.0;7

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914032.d
Lab Smp Id: 1838-34-20.0 Client Smp ID: 8
Inj Date : 15-SEP-2010 00:46
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-20.0;8
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 00:46 Cal File: f0914032.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.744	3.744	0.000	2254108	20.0000	20.9
3 ACETALDEHYDE	4.371	4.371	0.000	1715969	20.0000	20.4
4 ACROLEIN	5.091	5.091	0.000	1648845	20.0000	20.6
5 ACETONE	5.297	5.297	0.000	1232915	20.0000	20.0
6 PROPANAL	5.544	5.544	0.000	1256858	20.0000	20.3
7 CROTONAL	6.484	6.484	0.000	1134806	20.0000	20.1
9 BUTYRALS/MEK	7.151	7.151	0.000	1085507	20.0000	20.3
10 BENZALDEHYDE	8.171	8.171	0.000	766541	20.0000	20.2
11 ISO-PENTANAL	9.271	9.271	0.000	915740	20.0000	20.4
12 PENTANAL	9.957	9.957	0.000	898851	20.0000	20.4
14 O-TOLUALDEHYDE	11.024	11.024	0.000	718581	20.0000	19.8
15 M,P-TOLUALDEHYDE	11.337	11.337	0.000	1214005	40.0000	39.9
16 HEXANAL	12.864	12.864	0.000	789706	20.0000	19.6
17 2,5-Dimethylbenzaldehyde	13.457	13.457	0.000	565128	20.0000	19.1

Data File: /chem/hplcf.i/14Sep2010.b/f0914032.d

Date : 15-SEP-2010 00:46

Client ID: 8

Instrument: hplcf.i

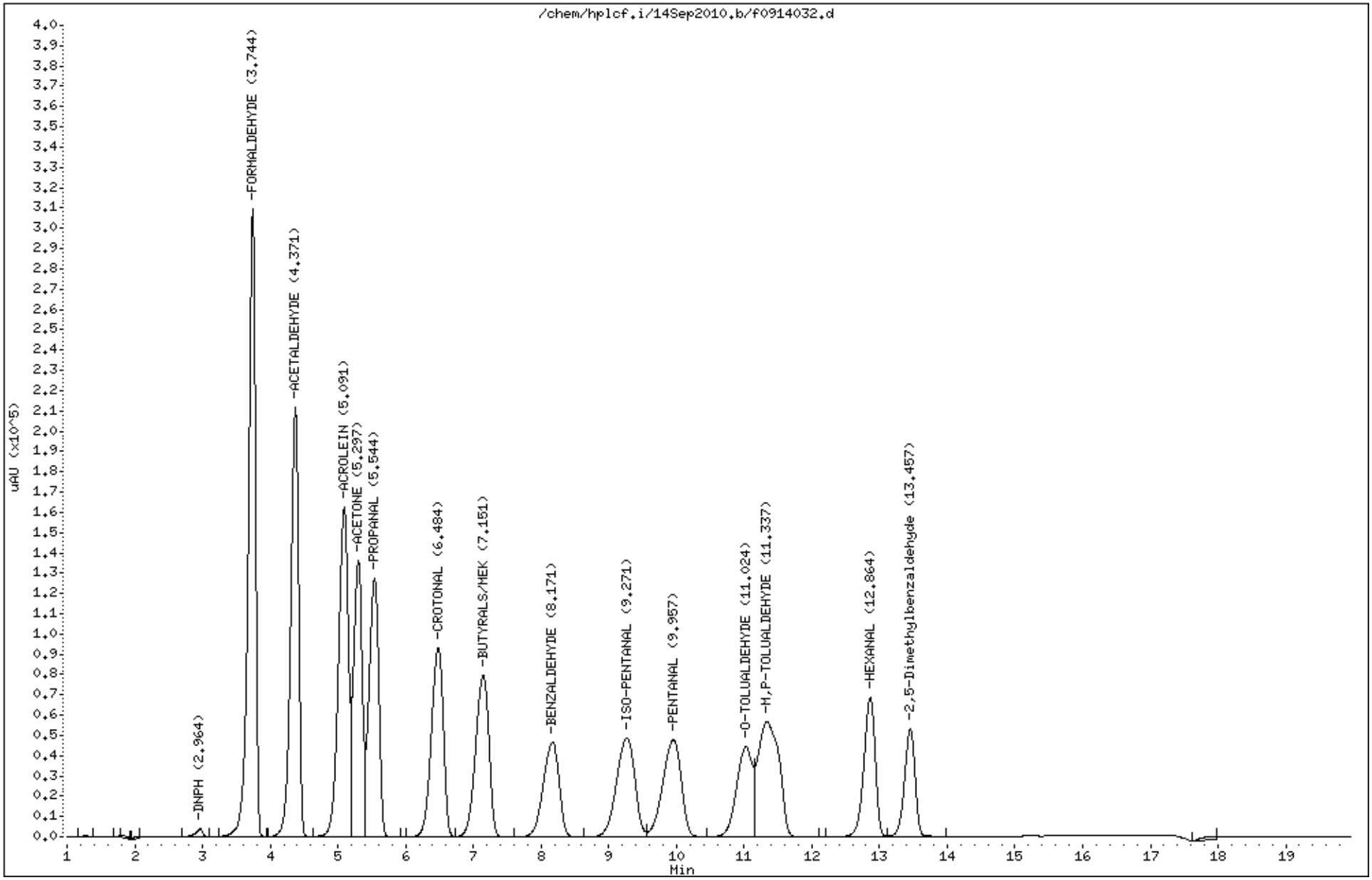
Sample Info: ;1838-34-20.0;8

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914031.d
Lab Smp Id: 1838-34-20.0 Client Smp ID: 8
Inj Date : 15-SEP-2010 00:25
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-20.0;8
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 00:25 Cal File: f0914031.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.737	3.737	0.000	2253426	20.0000	21.0
3 ACETALDEHYDE	4.370	4.370	0.000	1715704	20.0000	20.4
4 ACROLEIN	5.090	5.090	0.000	1623561	20.0000	20.3
5 ACETONE	5.297	5.297	0.000	1258750	20.0000	20.4
6 PROPANAL	5.544	5.544	0.000	1256634	20.0000	20.3
7 CROTONAL	6.484	6.484	0.000	1135155	20.0000	20.1
9 BUTYRALS/MEK	7.144	7.144	0.000	1084977	20.0000	20.3
10 BENZALDEHYDE	8.164	8.164	0.000	766094	20.0000	20.2
11 ISO-PENTANAL	9.257	9.257	0.000	914971	20.0000	20.4
12 PENTANAL	9.944	9.944	0.000	899656	20.0000	20.4
14 O-TOLUALDEHYDE	11.017	11.017	0.000	725384	20.0000	20.0
15 M,P-TOLUALDEHYDE	11.324	11.324	0.000	1206012	40.0000	39.6
16 HEXANAL	12.850	12.850	0.000	789496	20.0000	19.6
17 2,5-Dimethylbenzaldehyde	13.444	13.444	0.000	564585	20.0000	19.0

Data File: /chem/hplcf.i/14Sep2010.b/f0914031.d

Date : 15-SEP-2010 00:25

Client ID: 8

Instrument: hplcf.i

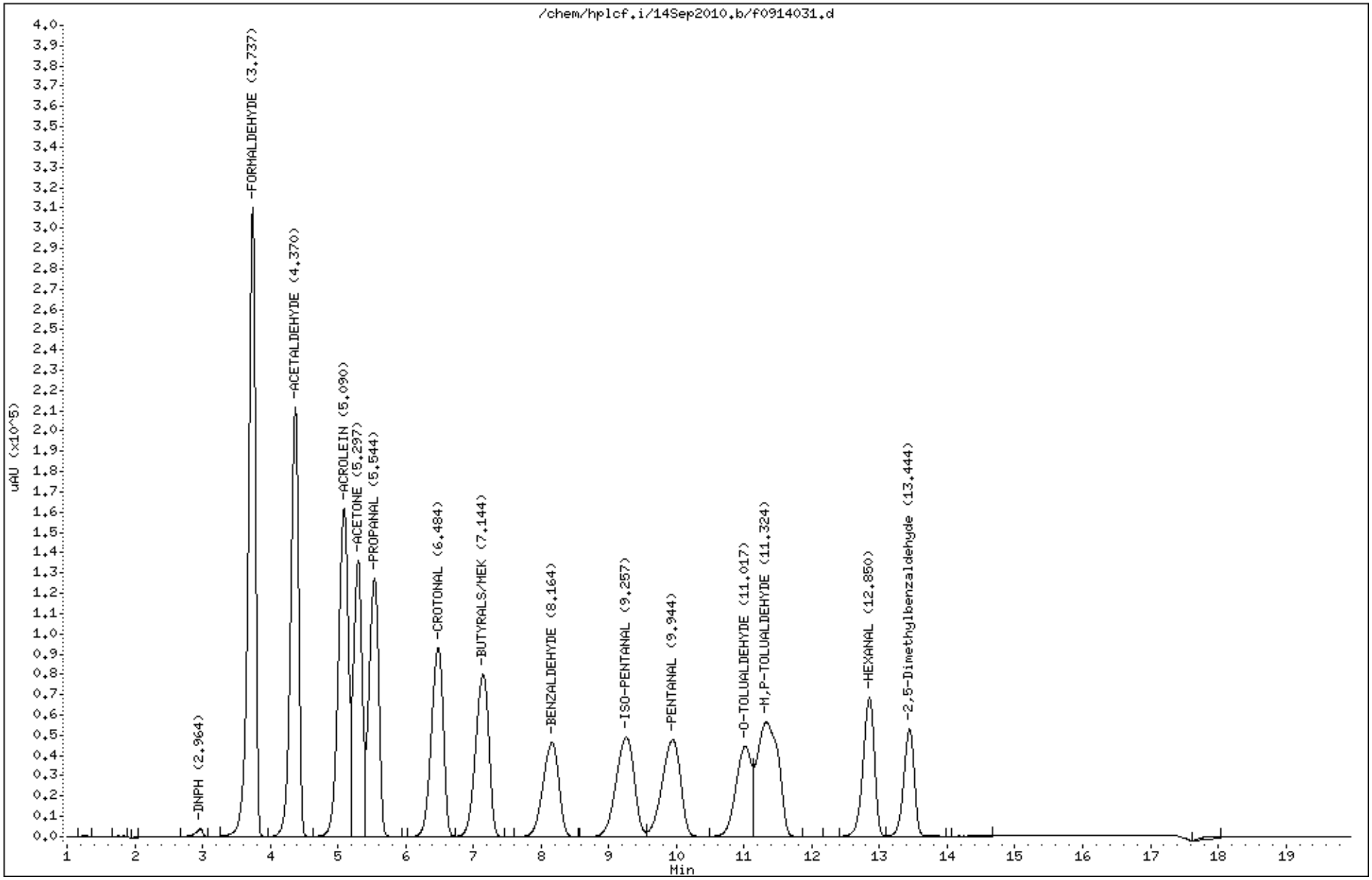
Sample Info: ;1838-34-20.0;8

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914030.d
Lab Smp Id: 1838-34-20.0 Client Smp ID: 8
Inj Date : 15-SEP-2010 00:04
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-20.0;8
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 00:04 Cal File: f0914030.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.740	3.740	0.000	2254897	20.0000	21.0
3 ACETALDEHYDE	4.367	4.367	0.000	1716022	20.0000	20.4
4 ACROLEIN	5.087	5.087	0.000	1624451	20.0000	20.3
5 ACETONE	5.294	5.294	0.000	1258629	20.0000	20.4
6 PROPANAL	5.540	5.540	0.000	1254219	20.0000	20.2
7 CROTONAL	6.481	6.481	0.000	1134607	20.0000	20.1
9 BUTYRALS/MEK	7.141	7.141	0.000	1085317	20.0000	20.3
10 BENZALDEHYDE	8.161	8.161	0.000	766359	20.0000	20.3
11 ISO-PENTANAL	9.254	9.254	0.000	915854	20.0000	20.4
12 PENTANAL	9.941	9.941	0.000	899974	20.0000	20.4
14 O-TOLUALDEHYDE	11.014	11.014	0.000	724371	20.0000	20.0
15 M,P-TOLUALDEHYDE	11.327	11.327	0.000	1208247	40.0000	39.6
16 HEXANAL	12.854	12.854	0.000	790179	20.0000	19.6
17 2,5-Dimethylbenzaldehyde	13.447	13.447	0.000	564439	20.0000	18.9

Data File: /chem/hplcf.i/14Sep2010.b/f0914030.d

Date : 15-SEP-2010 00:04

Client ID: 8

Instrument: hplcf.i

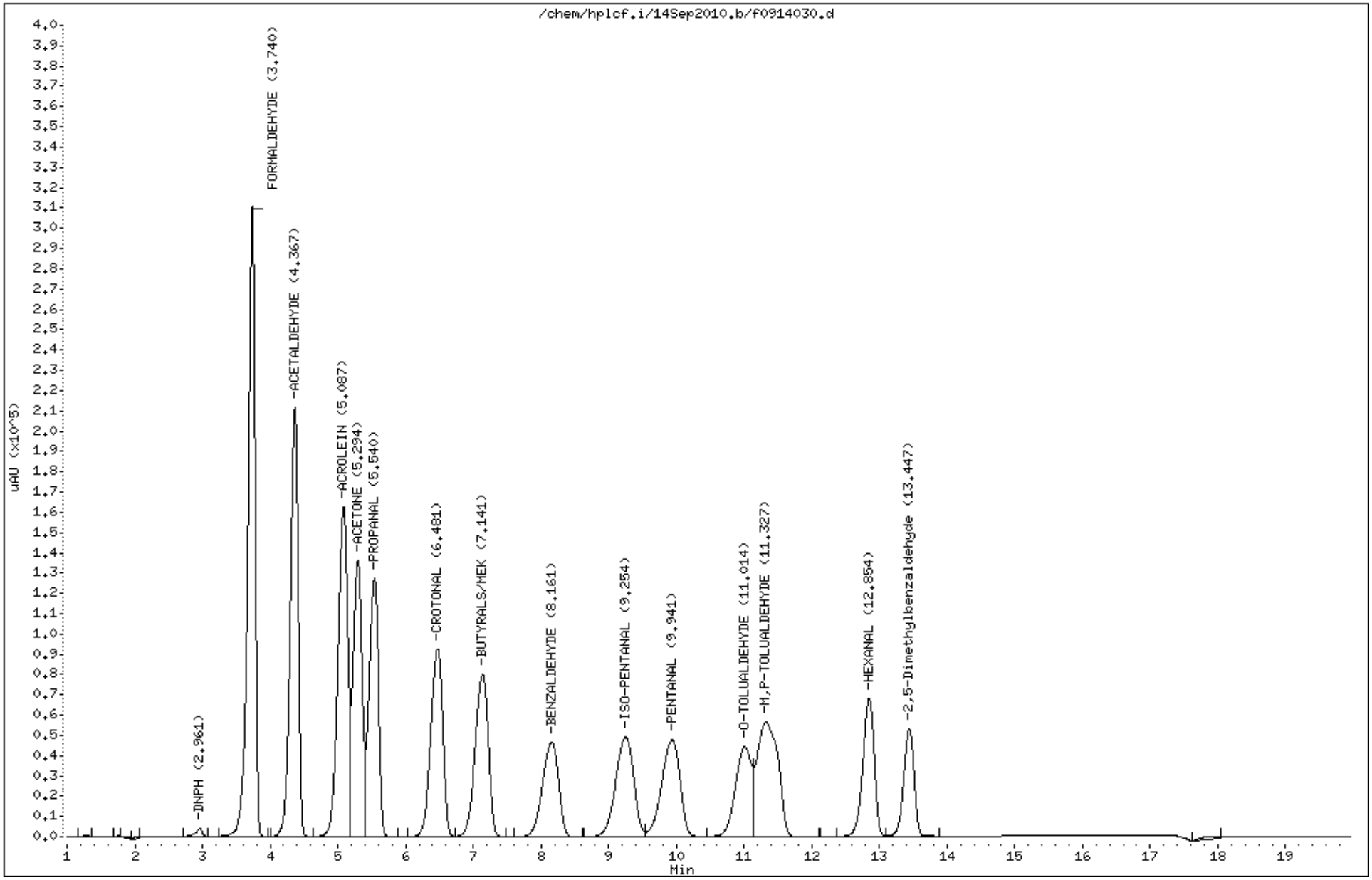
Sample Info: ;1838-34-20.0;8

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914035.d
Lab Smp Id: 1838-34-50.0 Client Smp ID: 9
Inj Date : 15-SEP-2010 01:49
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-50.0;9
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 01:49 Cal File: f0914035.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.744	3.744	0.000	5735655	50.0000	52.9
3 ACETALDEHYDE	4.378	4.378	0.000	4320919	50.0000	51.1
4 ACROLEIN	5.104	5.104	0.000	4122815	50.0000	51.3
5 ACETONE	5.311	5.311	0.000	3151407	50.0000	50.9
6 PROPANAL	5.558	5.558	0.000	3149158	50.0000	50.6
7 CROTONAL	6.498	6.498	0.000	2859994	50.0000	50.6
9 BUTYRALS/MEK	7.171	7.171	0.000	2736122	50.0000	51.0
10 BENZALDEHYDE	8.191	8.191	0.000	1932493	50.0000	50.9
11 ISO-PENTANAL	9.298	9.298	0.000	2308391	50.0000	51.2
12 PENTANAL	9.984	9.984	0.000	2269288	50.0000	51.2
14 O-TOLUALDEHYDE	11.058	11.058	0.000	1813745	50.0000	50.0
15 M,P-TOLUALDEHYDE	11.364	11.364	0.000	3063405	100.000	100
16 HEXANAL	12.878	12.878	0.000	1989961	50.0000	49.6
17 2,5-Dimethylbenzaldehyde	13.478	13.478	0.000	1422785	50.0000	48.3

Data File: /chem/hplcf.i/14Sep2010.b/f0914035.d

Date : 15-SEP-2010 01:49

Client ID: 9

Sample Info: ;1838-34-50.0;9

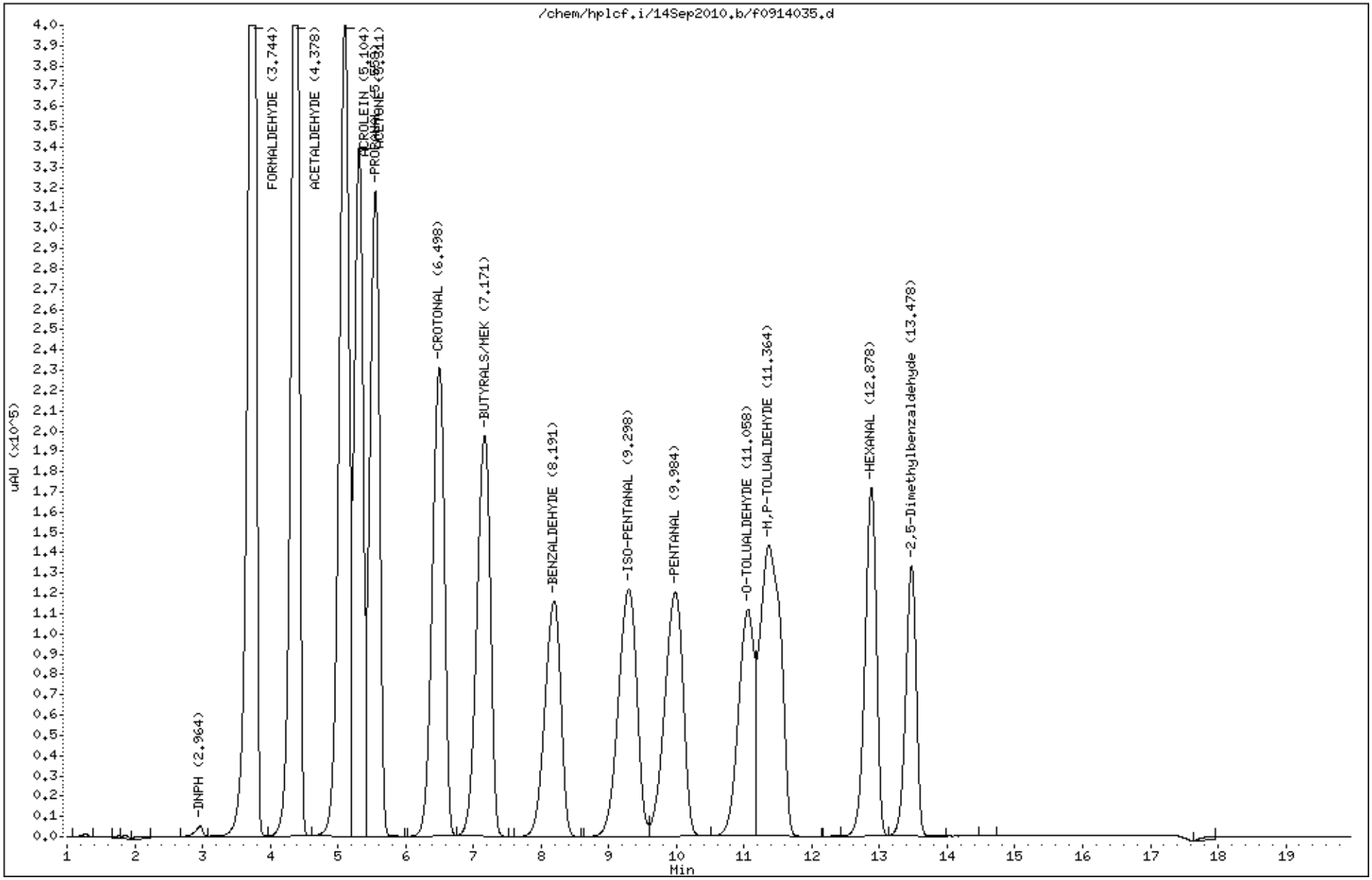
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hplcf.i

Operator: CRL

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914034.d
Lab Smp Id: 1838-34-50.0 Client Smp ID: 9
Inj Date : 15-SEP-2010 01:28
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-50.0;9
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 01:28 Cal File: f0914034.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.741	3.741	0.000	5712516	50.0000	52.8
3 ACETALDEHYDE	4.375	4.375	0.000	4302015	50.0000	50.9
4 ACROLEIN	5.101	5.101	0.000	4126536	50.0000	51.4
5 ACETONE	5.308	5.308	0.000	3139620	50.0000	50.8
6 PROPANAL	5.555	5.555	0.000	3117295	50.0000	50.2
7 CROTONAL	6.495	6.495	0.000	2849453	50.0000	50.4
9 BUTYRALS/MEK	7.168	7.168	0.000	2731639	50.0000	50.9
10 BENZALDEHYDE	8.195	8.195	0.000	1923200	50.0000	50.7
11 ISO-PENTANAL	9.301	9.301	0.000	2299225	50.0000	51.1
12 PENTANAL	9.995	9.995	0.000	2257589	50.0000	51.0
14 O-TOLUALDEHYDE	11.075	11.075	0.000	1841301	50.0000	50.8
15 M,P-TOLUALDEHYDE	11.381	11.381	0.000	3009648	100.000	98.8
16 HEXANAL	12.888	12.888	0.000	1981435	50.0000	49.3
17 2,5-Dimethylbenzaldehyde	13.481	13.481	0.000	1415893	50.0000	48.0

Data File: /chem/hplcf.i/14Sep2010.b/f0914034.d

Page 1

Date : 15-SEP-2010 01:28

Client ID: 9

Instrument: hplcf.i

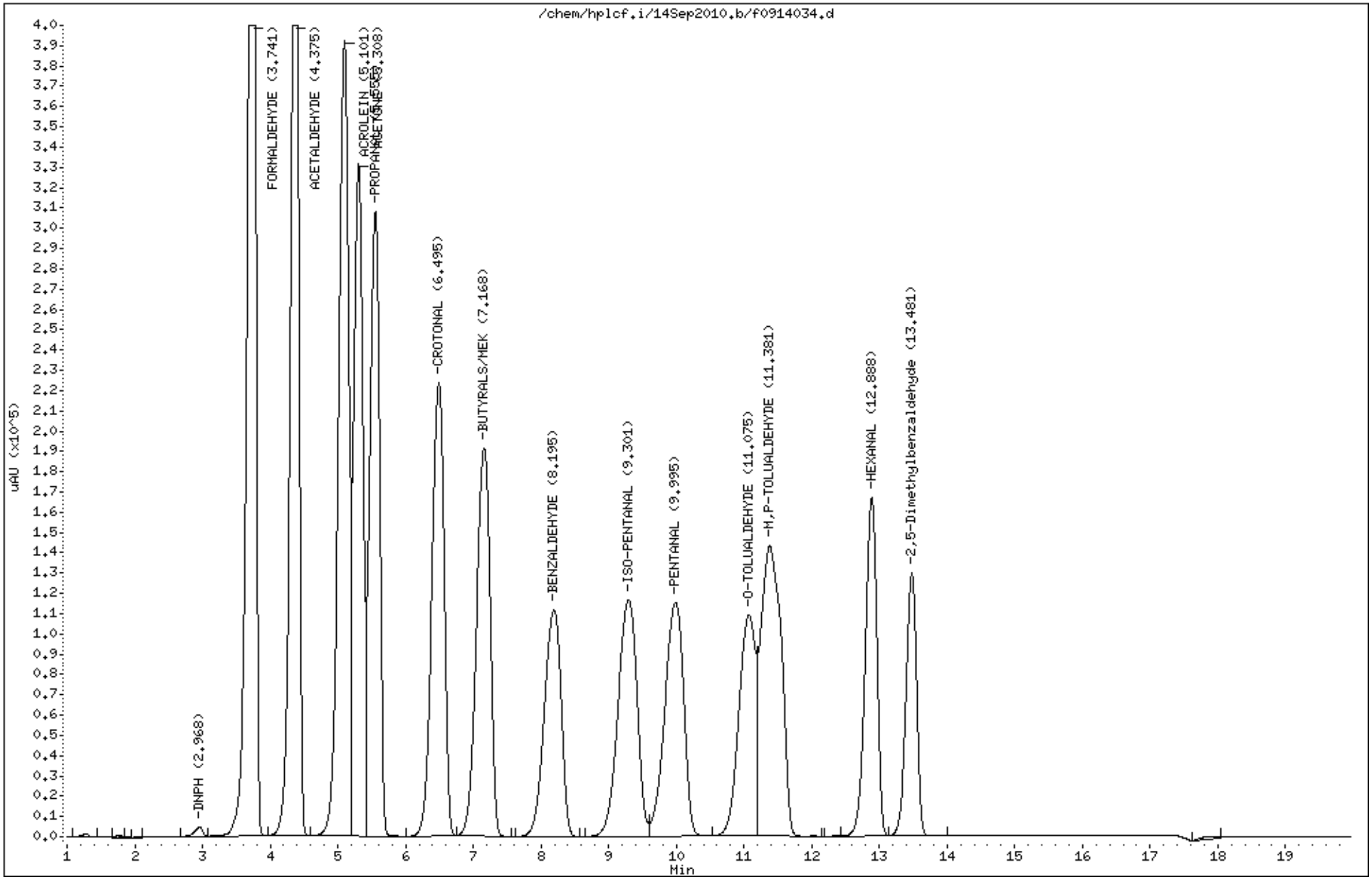
Sample Info: ;1838-34-50.0;9

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914033.d
Lab Smp Id: 1838-34-50.0 Client Smp ID: 9
Inj Date : 15-SEP-2010 01:07
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-50.0;9
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 01:07 Cal File: f0914033.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.746	3.746	0.000	5728855	50.0000	53.0
3 ACETALDEHYDE	4.379	4.379	0.000	4315096	50.0000	51.1
4 ACROLEIN	5.106	5.106	0.000	4140018	50.0000	51.6
5 ACETONE	5.312	5.312	0.000	3097047	50.0000	50.1
6 PROPANAL	5.553	5.553	0.000	3180515	50.0000	51.2
7 CROTONAL	6.499	6.499	0.000	2858190	50.0000	50.6
9 BUTYRALS/MEK	7.166	7.166	0.000	2734583	50.0000	51.0
10 BENZALDEHYDE	8.193	8.193	0.000	1931644	50.0000	51.0
11 ISO-PENTANAL	9.293	9.293	0.000	2306912	50.0000	51.3
12 PENTANAL	9.986	9.986	0.000	2269239	50.0000	51.3
14 O-TOLUALDEHYDE	11.053	11.053	0.000	1798798	50.0000	49.7
15 M,P-TOLUALDEHYDE	11.359	11.359	0.000	3071841	100.000	101
16 HEXANAL	12.879	12.879	0.000	1987958	50.0000	49.4
17 2,5-Dimethylbenzaldehyde	13.473	13.473	0.000	1421423	50.0000	48.0

Data File: /chem/hplcf.i/14Sep2010.b/f0914033.d

Page 1

Date : 15-SEP-2010 01:07

Client ID: 9

Instrument: hplcf.i

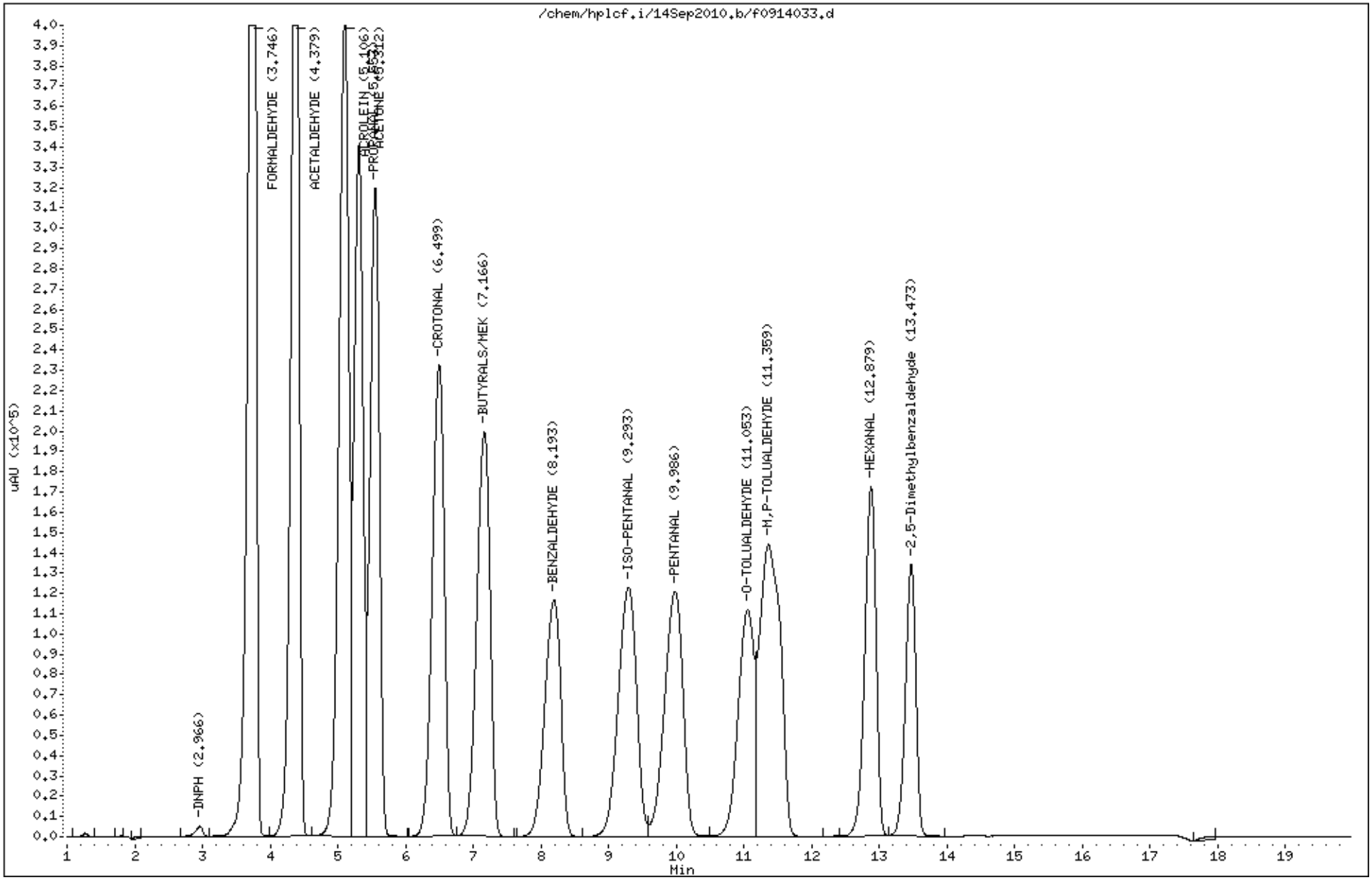
Sample Info: ;1838-34-50.0;9

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914038.d
Lab Smp Id: 1838-34-75.0 Client Smp ID: 10
Inj Date : 15-SEP-2010 02:52
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-75.0;10
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 02:52 Cal File: f0914038.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.740	3.740	0.000	8877830	75.0000	81.1(A)
3 ACETALDEHYDE	4.373	4.373	0.000	6766583	75.0000	79.4(A)
4 ACROLEIN	5.093	5.093	0.000	6437988	75.0000	79.4(A)
5 ACETONE	5.300	5.300	0.000	4958940	75.0000	79.6(A)
6 PROPANAL	5.546	5.546	0.000	4945549	75.0000	78.9(A)
7 CROTONAL	6.480	6.480	0.000	4483386	75.0000	78.7(A)
9 BUTYRALS/MEK	7.146	7.146	0.000	4290345	75.0000	79.2(A)
10 BENZALDEHYDE	8.166	8.166	0.000	3033347	75.0000	79.3(A)
11 ISO-PENTANAL	9.260	9.260	0.000	3618335	75.0000	79.6(A)
12 PENTANAL	9.946	9.946	0.000	3558158	75.0000	79.6(A)
14 O-TOLUALDEHYDE	11.026	11.026	0.000	2834077	75.0000	77.7(A)
15 M,P-TOLUALDEHYDE	11.333	11.333	0.000	4808540	150.000	157(A)
16 HEXANAL	12.853	12.853	0.000	3118236	75.0000	77.3(A)
17 2,5-Dimethylbenzaldehyde	13.453	13.453	0.000	2231351	75.0000	75.6(A)

QC Flag Legend

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

Data File: /chem/hplcf.i/14Sep2010.b/f0914038.d

Page 1

Date : 15-SEP-2010 02:52

Client ID: 10

Instrument: hplcf.i

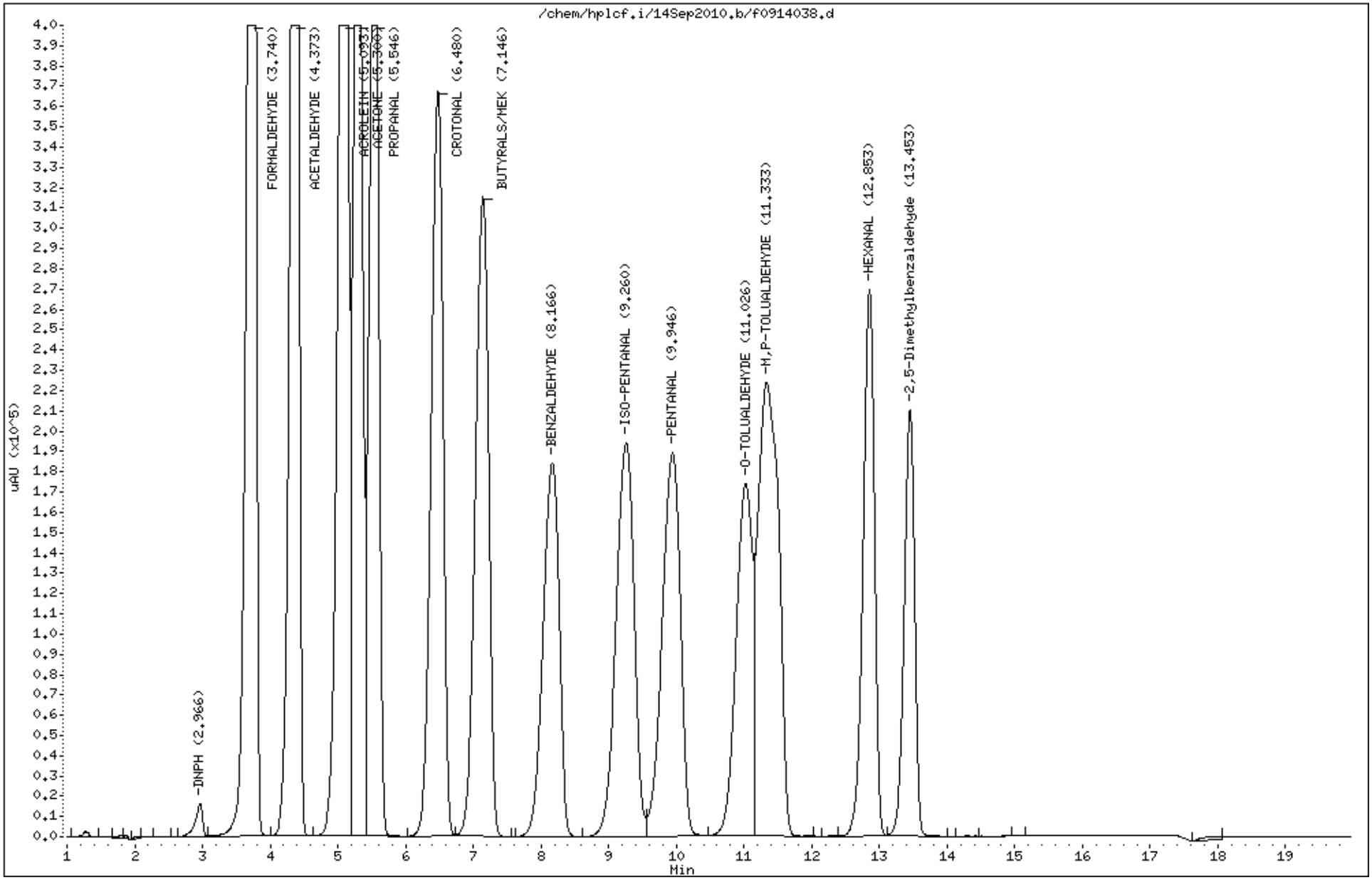
Sample Info: ;1838-34-75.0;10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914037.d
Lab Smp Id: 1838-34-75.0 Client Smp ID: 10
Inj Date : 15-SEP-2010 02:31
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-75.0;10
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 02:31 Cal File: f0914037.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.743	3.743	0.000	8874471	75.0000	81.3(A)
3 ACETALDEHYDE	4.376	4.376	0.000	6764082	75.0000	79.6(A)
4 ACROLEIN	5.103	5.103	0.000	6468876	75.0000	79.9(A)
5 ACETONE	5.310	5.310	0.000	4877086	75.0000	78.5(A)
6 PROPANAL	5.550	5.550	0.000	4992133	75.0000	79.8(A)
7 CROTONAL	6.496	6.496	0.000	4481980	75.0000	78.9(A)
9 BUTYRALS/MEK	7.163	7.163	0.000	4289038	75.0000	79.4(A)
10 BENZALDEHYDE	8.183	8.183	0.000	3028322	75.0000	79.4(A)
11 ISO-PENTANAL	9.283	9.283	0.000	3619020	75.0000	79.8(A)
12 PENTANAL	9.970	9.970	0.000	3557001	75.0000	79.8(A)
14 O-TOLUALDEHYDE	11.043	11.043	0.000	2868309	75.0000	78.8(A)
15 M,P-TOLUALDEHYDE	11.356	11.356	0.000	4770723	150.000	156(A)
16 HEXANAL	12.870	12.870	0.000	3117337	75.0000	77.4(A)
17 2,5-Dimethylbenzaldehyde	13.470	13.470	0.000	2229525	75.0000	75.6(A)

QC Flag Legend

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

Data File: /chem/hplcf.i/14Sep2010.b/f0914037.d

Page 1

Date : 15-SEP-2010 02:31

Client ID: 10

Instrument: hplcf.i

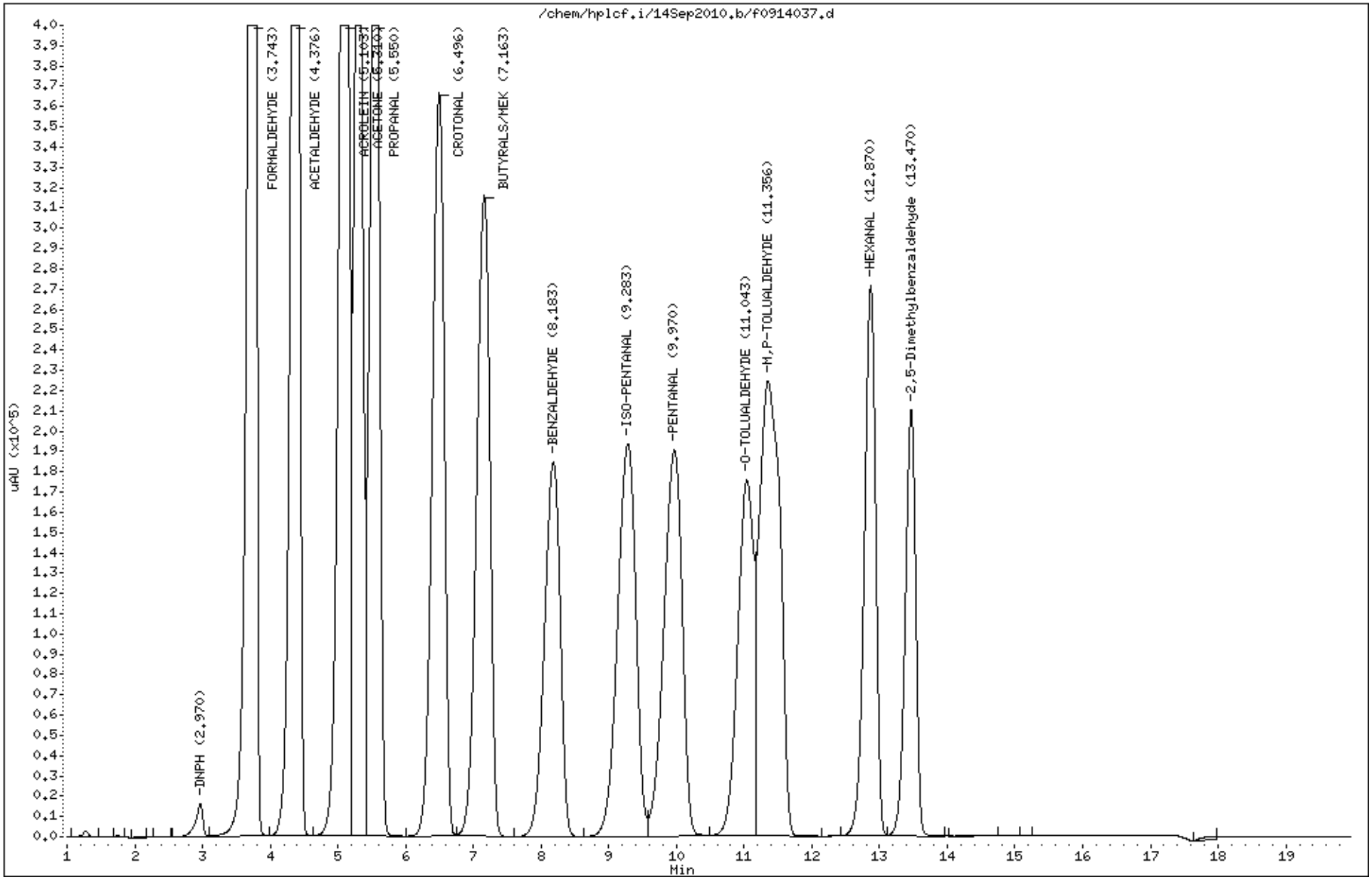
Sample Info: ;1838-34-75.0;10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914036.d
Lab Smp Id: 1838-34-75.0 Client Smp ID: 10
Inj Date : 15-SEP-2010 02:10
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-75.0;10
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 02:10 Cal File: f0914036.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.758	3.758	0.000	8872541	75.0000	81.5(A)
3 ACETALDEHYDE	4.391	4.391	0.000	6752657	75.0000	79.7(A)
4 ACROLEIN	5.125	5.125	0.000	6480467	75.0000	80.3(A)
5 ACETONE	5.332	5.332	0.000	4840692	75.0000	78.0(A)
6 PROPANAL	5.578	5.578	0.000	4977690	75.0000	79.8(A)
7 CROTONAL	6.525	6.525	0.000	4481850	75.0000	79.1(A)
9 BUTYRALS/MEK	7.198	7.198	0.000	4287442	75.0000	79.6(A)
10 BENZALDEHYDE	8.238	8.238	0.000	3023220	75.0000	79.4(A)
11 ISO-PENTANAL	9.345	9.345	0.000	3616516	75.0000	80.0(A)
12 PENTANAL	10.038	10.038	0.000	3551905	75.0000	79.9(A)
14 O-TOLUALDEHYDE	11.098	11.098	0.000	2865895	75.0000	78.9(A)
15 M,P-TOLUALDEHYDE	11.405	11.405	0.000	4759434	150.000	156(A)
16 HEXANAL	12.912	12.912	0.000	3113906	75.0000	77.4(A)
17 2,5-Dimethylbenzaldehyde	13.505	13.505	0.000	2224010	75.0000	75.4(A)

QC Flag Legend

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

Data File: /chem/hplcf.i/14Sep2010.b/f0914036.d

Date : 15-SEP-2010 02:10

Client ID: 10

Sample Info: ;1838-34-75.0;10

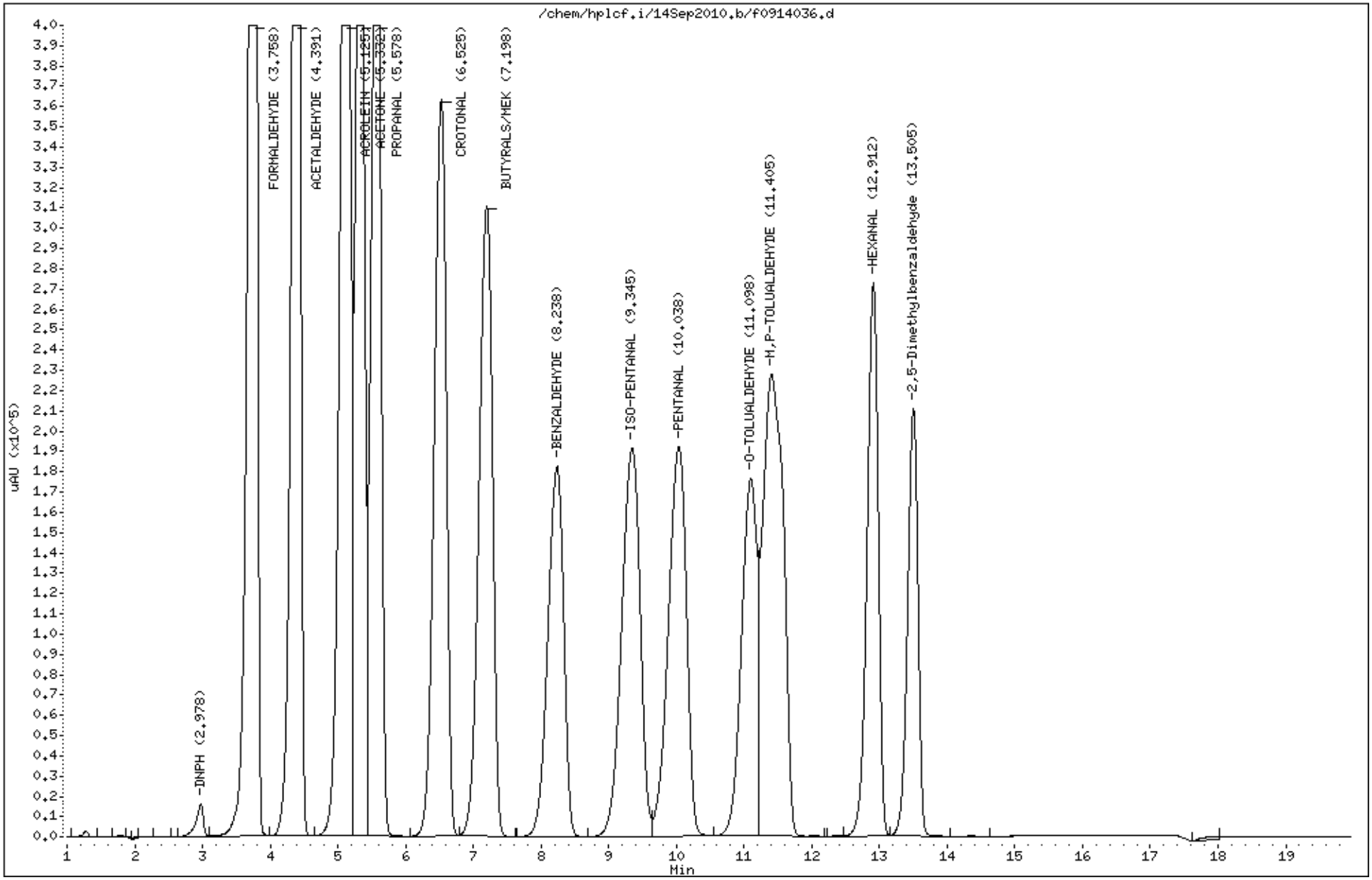
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hplcf.i

Operator: CRL

Column diameter: 2.00



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplcf.i Injection Date: 07-DEC-2010 11:14
Lab File ID: f1207004.d Init. Cal. Date(s): 14-SEP-2010 15-SEP-2010
Analysis Type: AIR Init. Cal. Times: 16:46 02:52
Lab Sample ID: 1838-41-10 Quant Type: ESTD
Method: /chem/hplcf.i/07Dec2010.b/F10D0914.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 DNPH	++++	708	0.100	++++	10.00000	Averaged	<-
2 FORMALDEHYDE	109474	114544	0.010	-4.63096	10.00000	Averaged	
3 ACETALDEHYDE	85159	86152	0.010	-1.16603	10.00000	Averaged	
5 ACETONE	62324	61180	0.010	1.83649	10.00000	Averaged	
6 PROPANAL	62684	57108	0.010	8.89624	10.00000	Averaged	
7 CROTONAL	56944	58347	0.010	-2.46324	10.00000	Averaged	
9 BUTYRALS/MEK	54133	52580	0.010	2.86919	10.00000	Averaged	
10 BENZALDEHYDE	38259	36412	0.010	4.82811	10.00000	Averaged	
11 ISO-PENTANAL	45456	45377	0.010	0.17401	10.00000	Averaged	
12 PENTANAL	44700	41467	0.010	7.23320	10.00000	Averaged	
14 O-TOLUALDEHYDE	36466	38790	0.010	-6.37288	10.00000	Averaged	
15 M,P-TOLUALDEHYDE	30634	28482	0.010	7.02384	10.00000	Averaged	
16 HEXANAL	40334	40431	0.010	-0.24019	10.00000	Averaged	
17 2,5-Dimethylbenzaldehyde	29495	28806	0.010	2.33549	10.00000	Averaged	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/07Dec2010.b/f1207004.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 07-DEC-2010 11:14
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:31 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TO-11+17.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
1 DNPH	2.976	2.976	0.000	7080	10.0000	
2 FORMALDEHYDE	3.742	3.742	0.000	1145440	10.0000	10.5
3 ACETALDEHYDE	4.369	4.369	0.000	861516	10.0000	10.1
5 ACETONE	5.276	5.276	0.000	611797	10.0000	9.82
6 PROPANAL	5.522	5.522	0.000	571076	10.0000	9.11
7 CROTONAL	6.442	6.442	0.000	583468	10.0000	10.2
9 BUTYRALS/MEK	7.089	7.089	0.000	525801	10.0000	9.71
10 BENZALDEHYDE	8.102	8.102	0.000	364117	10.0000	9.52
11 ISO-PENTANAL	9.136	9.136	0.000	453770	10.0000	9.98
12 PENTANAL	9.802	9.802	0.000	414670	10.0000	9.28
14 O-TOLUALDEHYDE	10.922	10.922	0.000	387901	10.0000	10.6
15 M,P-TOLUALDEHYDE	11.216	11.216	0.000	569642	20.0000	18.6
16 HEXANAL	12.736	12.736	0.000	404309	10.0000	10.0
17 2,5-Dimethylbenzaldehyde	13.342	13.342	0.000	288061	10.0000	9.77

Data File: /chem/hplcf.i/07Dec2010.b/f1207004.d

Date : 07-DEC-2010 11:14

Client ID: CCV

Instrument: hplcf.i

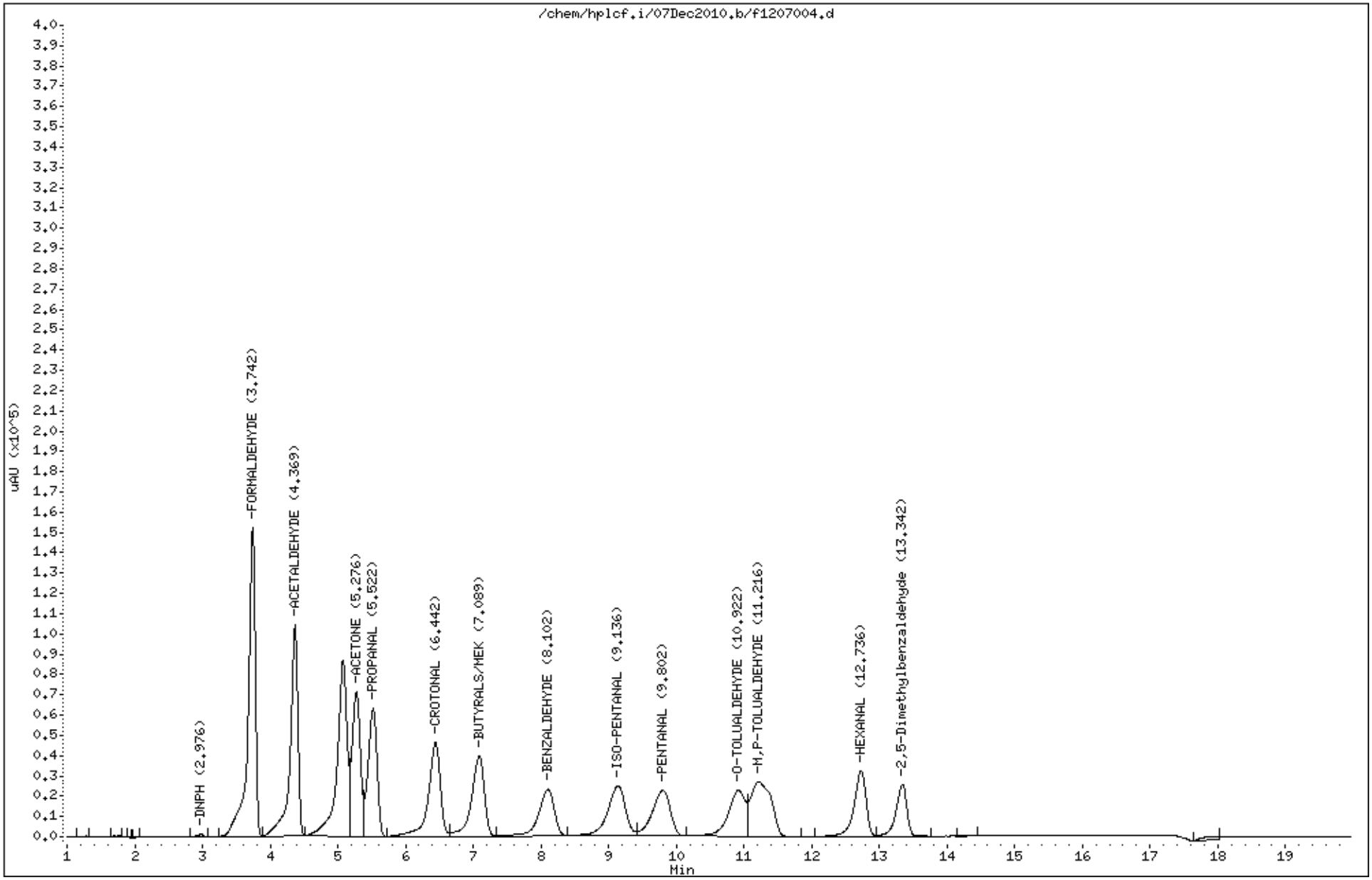
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/07Dec2010.b/f1206005.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 07-DEC-2010 11:35
Operator : LZ Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 07-Dec-2010 11:41 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TO-11+17.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	Compound Not Detected.					
3 ACETALDEHYDE	Compound Not Detected.					
5 ACETONE	Compound Not Detected.					
6 PROPANAL	Compound Not Detected.					
7 CROTONAL	Compound Not Detected.					
9 BUTYRALS/MEK	Compound Not Detected.					
10 BENZALDEHYDE	Compound Not Detected.					
11 ISO-PENTANAL	Compound Not Detected.					
12 PENTANAL	Compound Not Detected.					
14 O-TOLUALDEHYDE	Compound Not Detected.					
15 M,P-TOLUALDEHYDE	Compound Not Detected.					
16 HEXANAL	Compound Not Detected.					
17 2,5-Dimethylbenzaldehyde	Compound Not Detected.					

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

Data File: /chem/hplcf.i/07Dec2010.b/f1207005.d

Date : 07-DEC-2010 11:35

Client ID: LAB BLANK

Instrument: hplcf.i

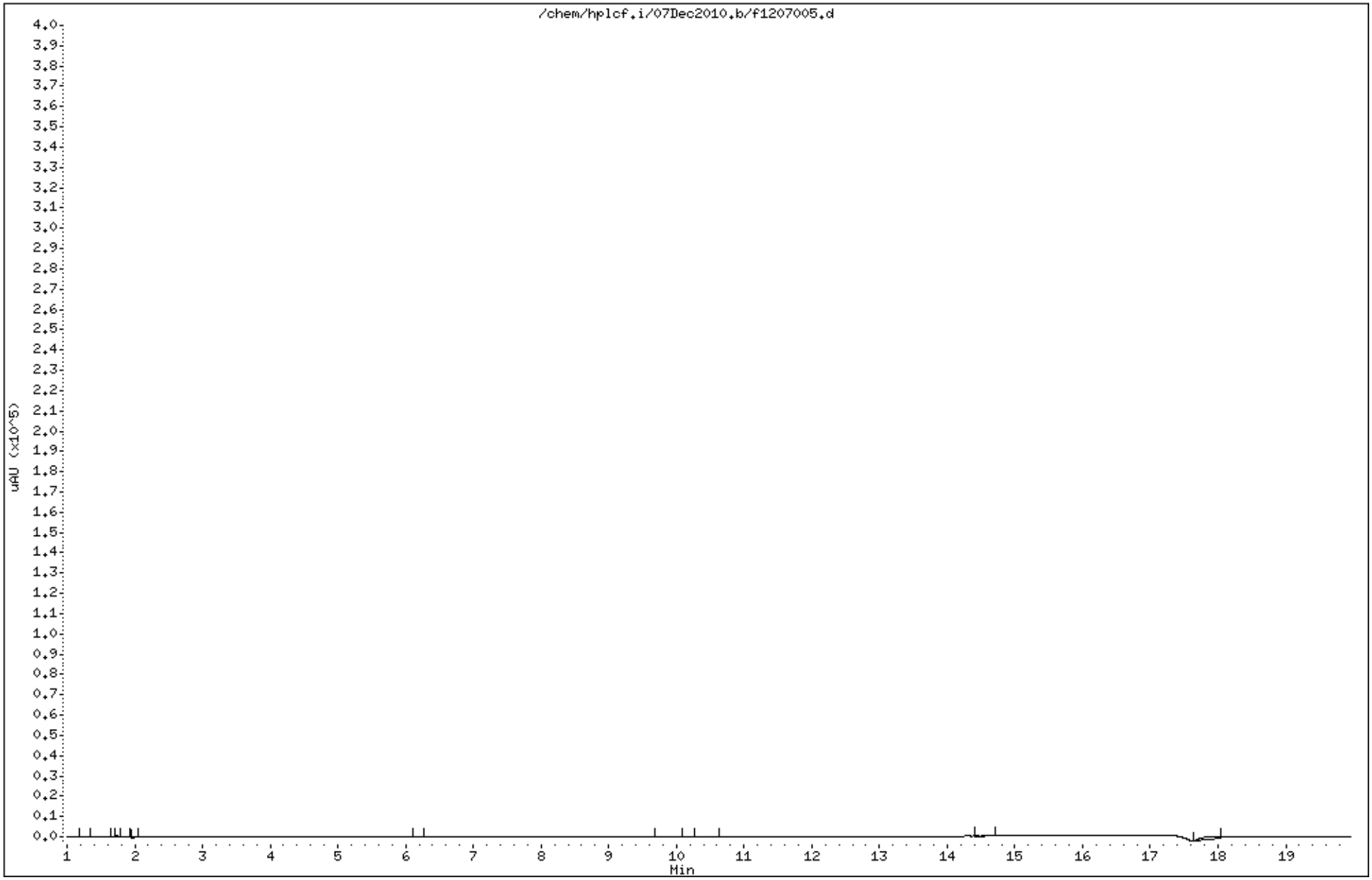
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207020.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 07-DEC-2010 16:29
Operator : LZ Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 07-Dec-2010 12:20 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TO-11.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	Compound Not Detected.					
3 ACETALDEHYDE	Compound Not Detected.					
5 ACETONE	Compound Not Detected.					
6 PROPANAL	Compound Not Detected.					
7 CROTONAL	Compound Not Detected.					
9 BUTYRALS/MEK	Compound Not Detected.					
10 BENZALDEHYDE	Compound Not Detected.					
11 ISO-PENTANAL	Compound Not Detected.					
12 PENTANAL	Compound Not Detected.					
14 O-TOLUALDEHYDE	Compound Not Detected.					
15 M,P-TOLUALDEHYDE	Compound Not Detected.					
16 HEXANAL	Compound Not Detected.					

Data File: /chem/hplcf.i/07Dec2010.b/f1207020.d

Date : 07-DEC-2010 16:29

Client ID: LAB BLANK

Instrument: hplcf.i

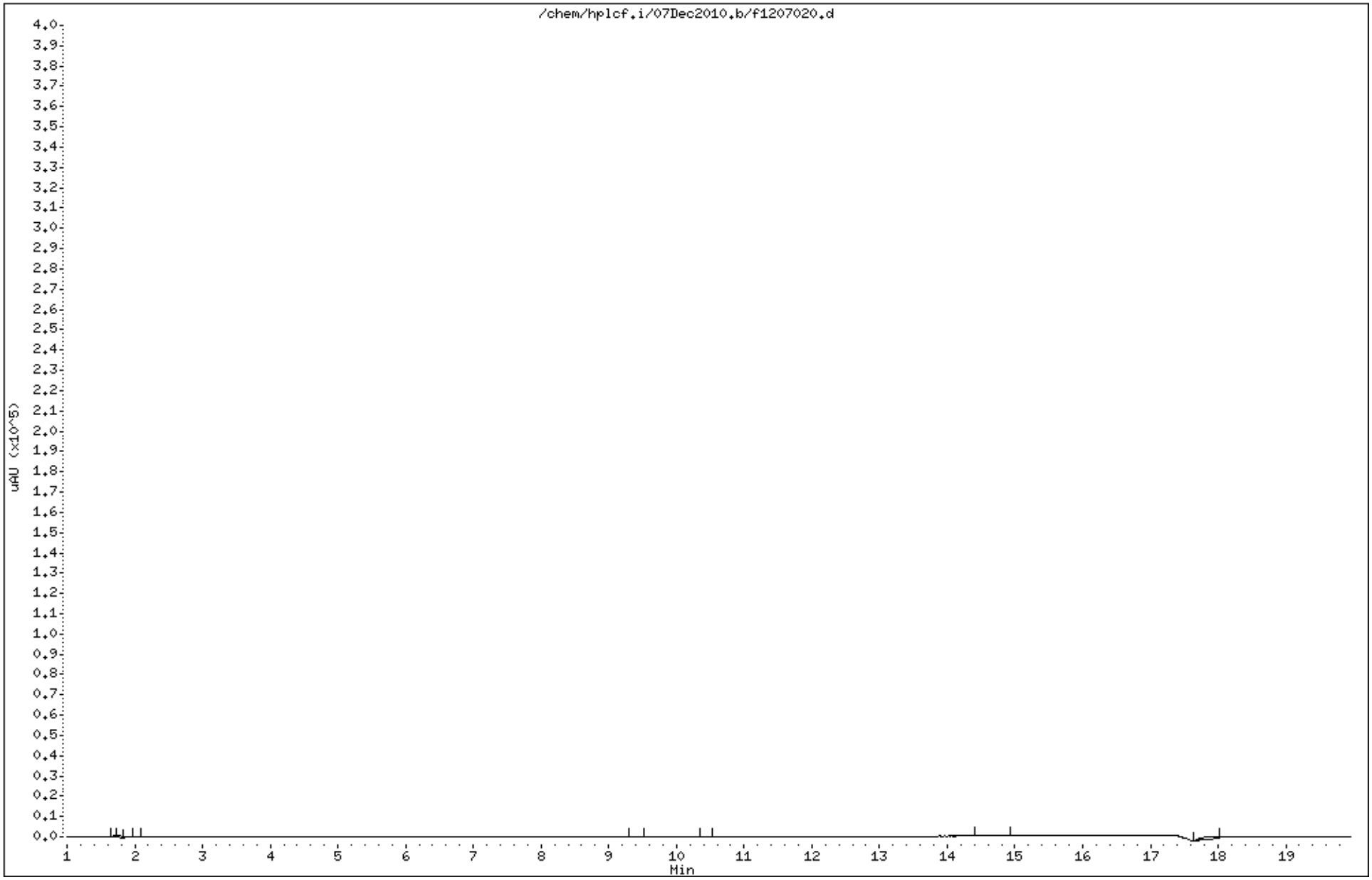
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1838-41-10
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type: OTHER
Data Type: LC DATA
Misc Info:

Client SDG: 07Dec2010
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ESTD
Level: MED
Operator: LZ

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.5	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207021.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 07-DEC-2010 16:50
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.982	2.941	0.041	6121		
2 FORMALDEHYDE	3.756	3.694	0.062	1151000	10.5139	10.5

Report Date: 08-Dec-2010 12:02

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 07Dec2010
Sample Matrix: LIQUID
Fraction: OTHER
Lab Smp Id: 1838-41-10
Client Smp ID: CCV
Level: MED
Operator: LZ
Data Type: LC DATA
SampleType: METHSPIKE
SpikeList File: 4fug.spk
Quant Type: ESTD
Sublist File: form.sub
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.5	105.14	90-110

Data File: /chem/hplcf.i/07Dec2010.b/f1207021.d

Date : 07-DEC-2010 16:50

Client ID: CCV

Instrument: hplcf.i

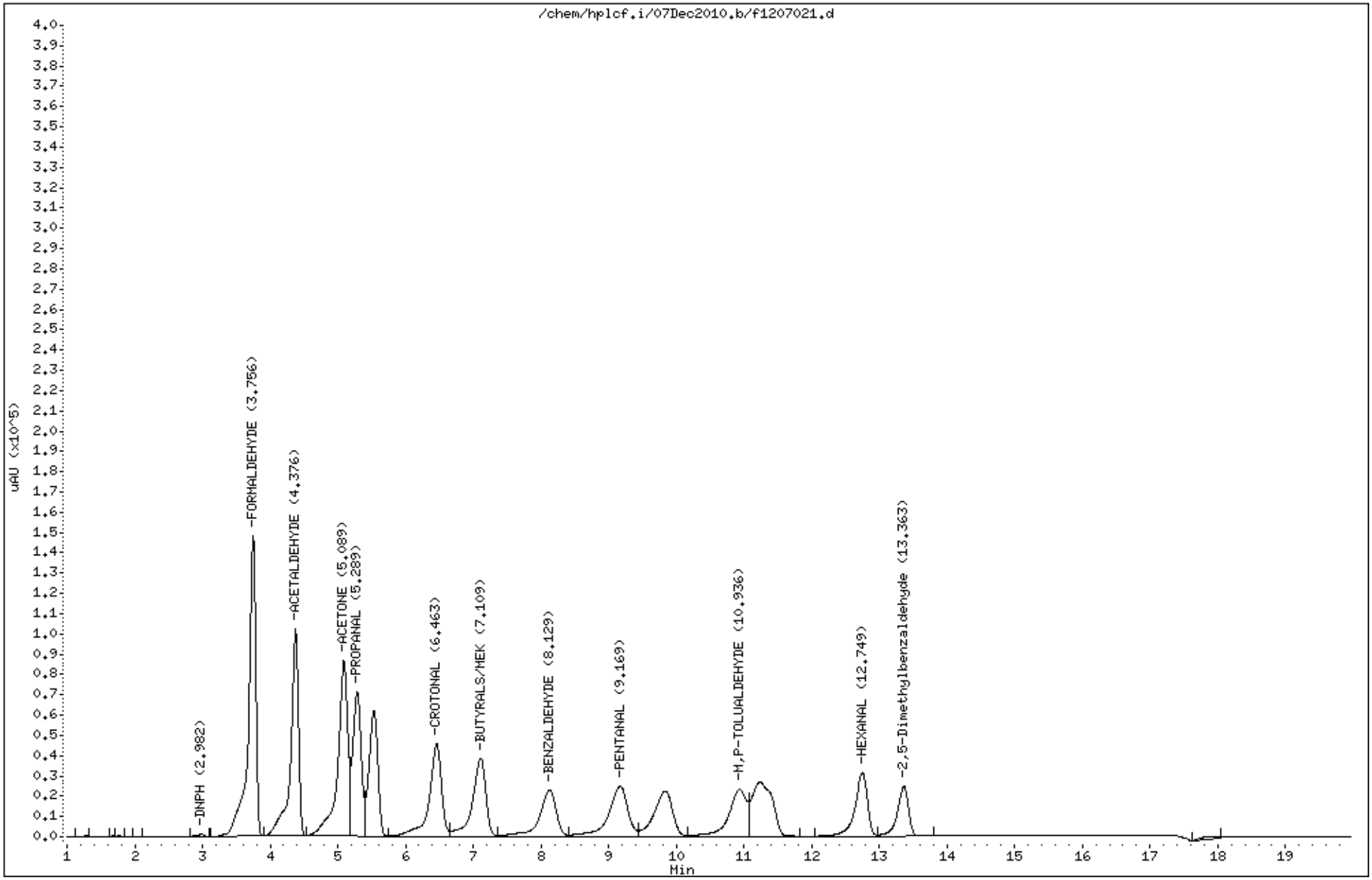
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1838-41-10
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type: OTHER
Data Type: LC DATA
Misc Info:

Client SDG: 07Dec2010
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ESTD
Level: MED
Operator: LZ

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.6	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207036.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 07-DEC-2010 22:04
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.982	2.941	0.041	6094		
2 FORMALDEHYDE	3.748	3.694	0.054	1155252	10.5527	10.6

Report Date: 08-Dec-2010 11:55

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 07Dec2010
Sample Matrix: LIQUID
Fraction: OTHER
Lab Smp Id: 1838-41-10
Client Smp ID: CCV
Level: MED
Operator: LZ
Data Type: LC DATA
SampleType: METHSPIKE
SpikeList File: 4fug.spk
Quant Type: ESTD
Sublist File: form.sub
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.6	105.53	90-110

Data File: /chem/hplcf.i/07Dec2010.b/f1207036.d

Date : 07-DEC-2010 22:04

Client ID: CCV

Instrument: hplcf.i

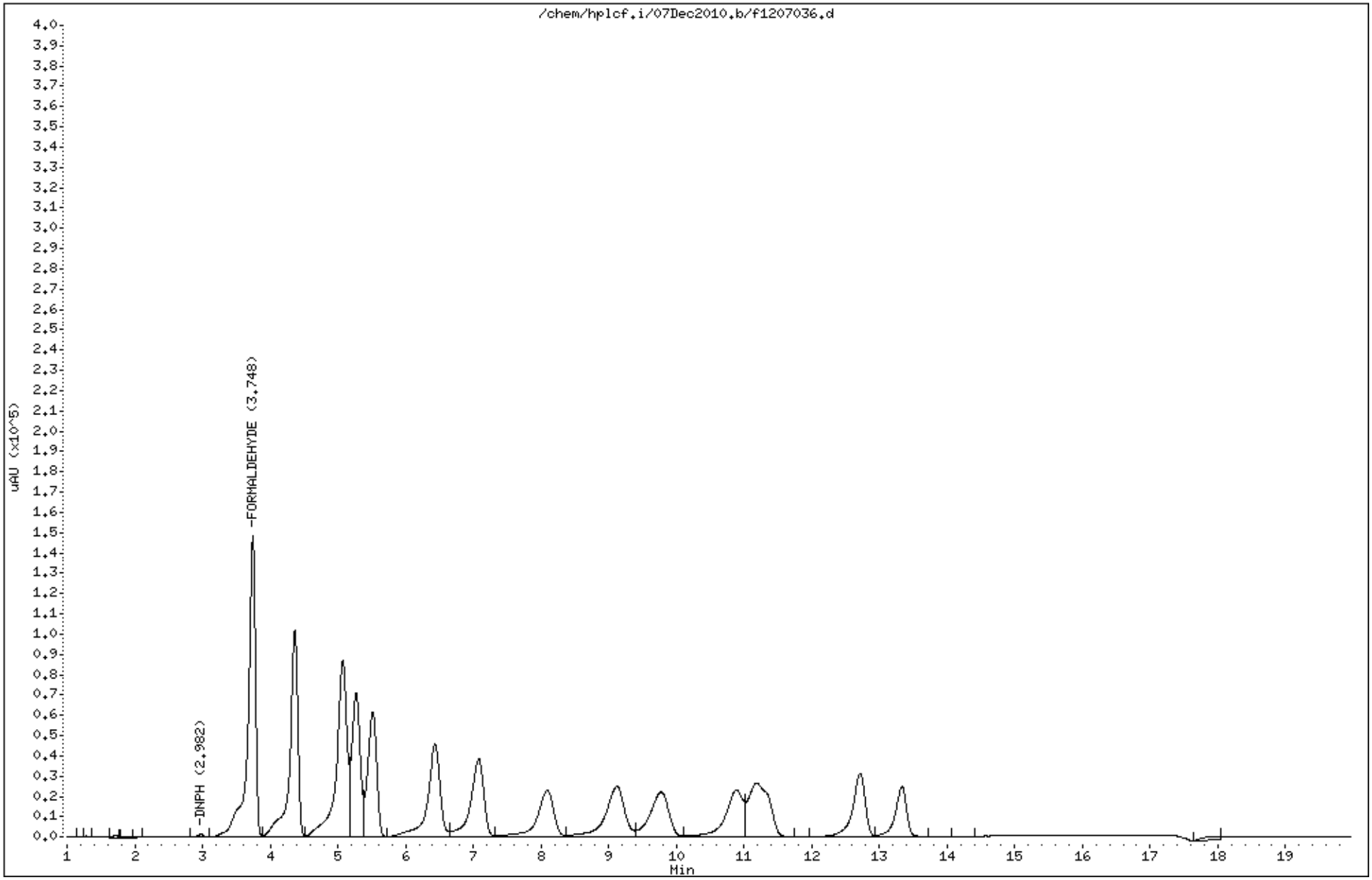
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207037.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 07-DEC-2010 22:24
Operator : LZ Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.946	2.941	0.005	1364		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/07Dec2010.b/f1207037.d

Date : 07-DEC-2010 22:24

Client ID: LAB BLANK

Instrument: hplcf.i

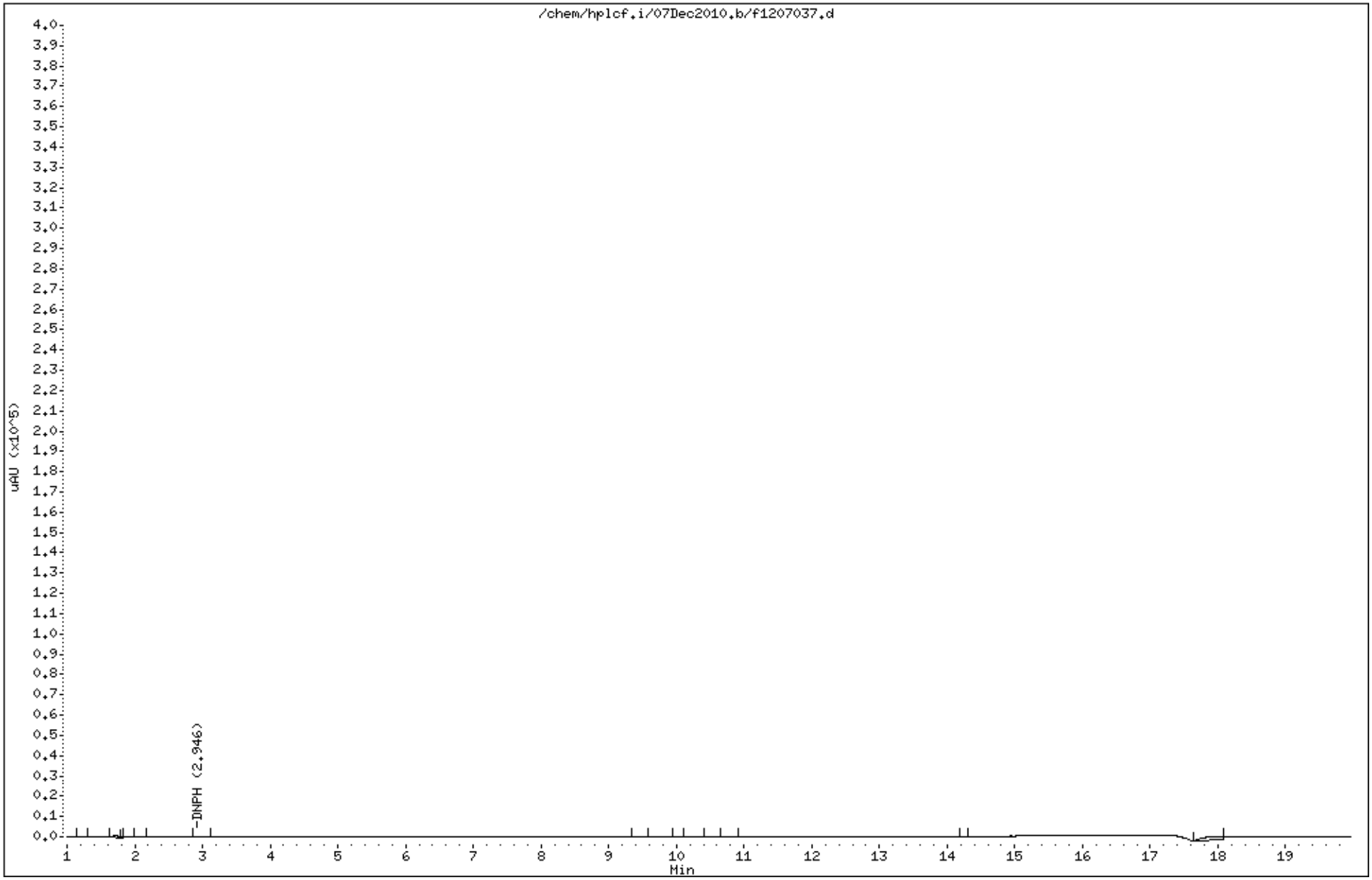
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Report Date: 08-Dec-2010 11:55

Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1838-41-10
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type: OTHER
Data Type: LC DATA
Misc Info:

Client SDG: 07Dec2010
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ESTD
Level: MED
Operator: LZ

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.6	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207049.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 08-DEC-2010 02:35
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.981	2.941	0.040	6116		
2 FORMALDEHYDE	3.741	3.694	0.047	1156614	10.5652	10.6

Report Date: 08-Dec-2010 11:55

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 07Dec2010
Sample Matrix: LIQUID
Fraction: OTHER
Lab Smp Id: 1838-41-10
Client Smp ID: CCV
Level: MED
Operator: LZ
Data Type: LC DATA
SampleType: METHSPIKE
SpikeList File: 4fug.spk
Quant Type: ESTD
Sublist File: form.sub
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.6	105.65	90-110

Data File: /chem/hplcf.i/07Dec2010.b/f1207049.d

Date : 08-DEC-2010 02:35

Client ID: CCV

Instrument: hplcf.i

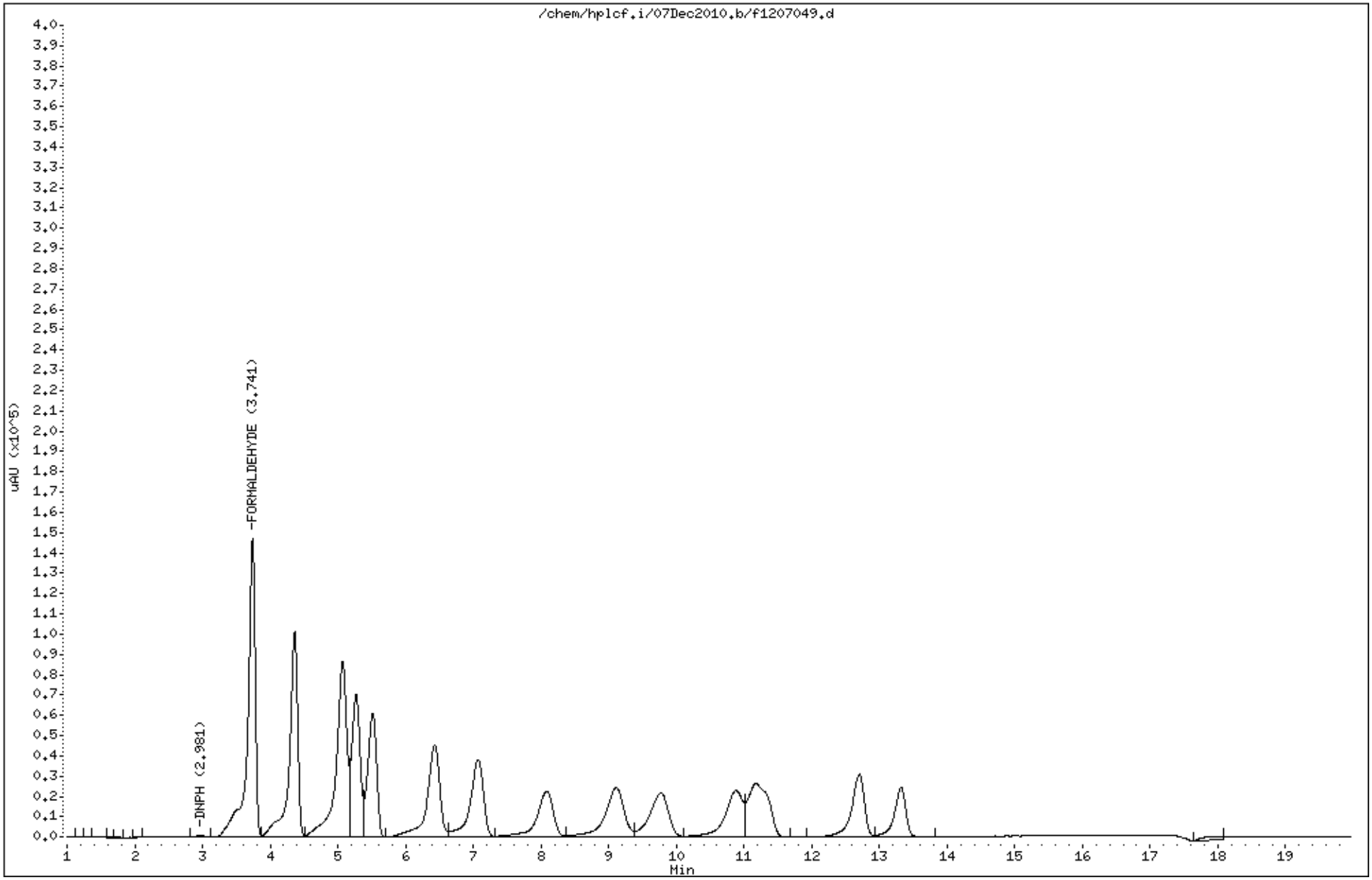
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207050.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 08-DEC-2010 02:56
Operator : LZ Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.933	2.941	-0.008	1378		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/07Dec2010.b/f1207050.d

Date : 08-DEC-2010 02:56

Client ID: LAB BLANK

Instrument: hplcf.i

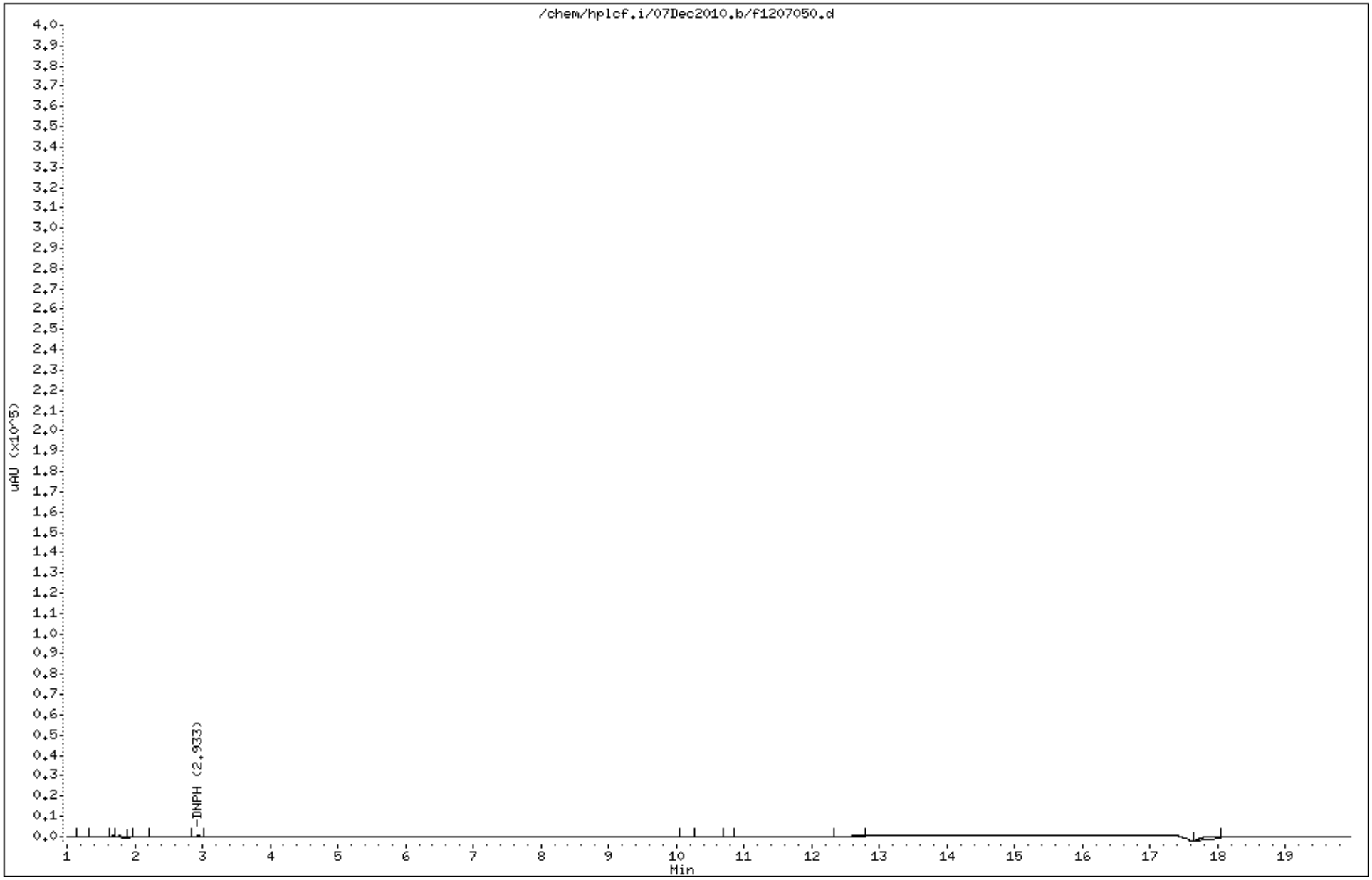
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1838-41-10
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type: OTHER
Data Type: LC DATA
Misc Info:

Client SDG: 07Dec2010
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ESTD
Level: MED
Operator: LZ

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.6	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207062.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 08-DEC-2010 07:07
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.974	2.941	0.033	5918		
2 FORMALDEHYDE	3.741	3.694	0.047	1158636	10.5836	10.6

Report Date: 08-Dec-2010 11:56

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 07Dec2010
Sample Matrix: LIQUID
Fraction: OTHER
Lab Smp Id: 1838-41-10
Client Smp ID: CCV
Level: MED
Operator: LZ
Data Type: LC DATA
SampleType: METHSPIKE
SpikeList File: 4fug.spk
Quant Type: ESTD
Sublist File: form.sub
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.6	105.84	90-110

Data File: /chem/hplcf.i/07Dec2010.b/f1207062.d

Date : 08-DEC-2010 07:07

Client ID: CCV

Instrument: hplcf.i

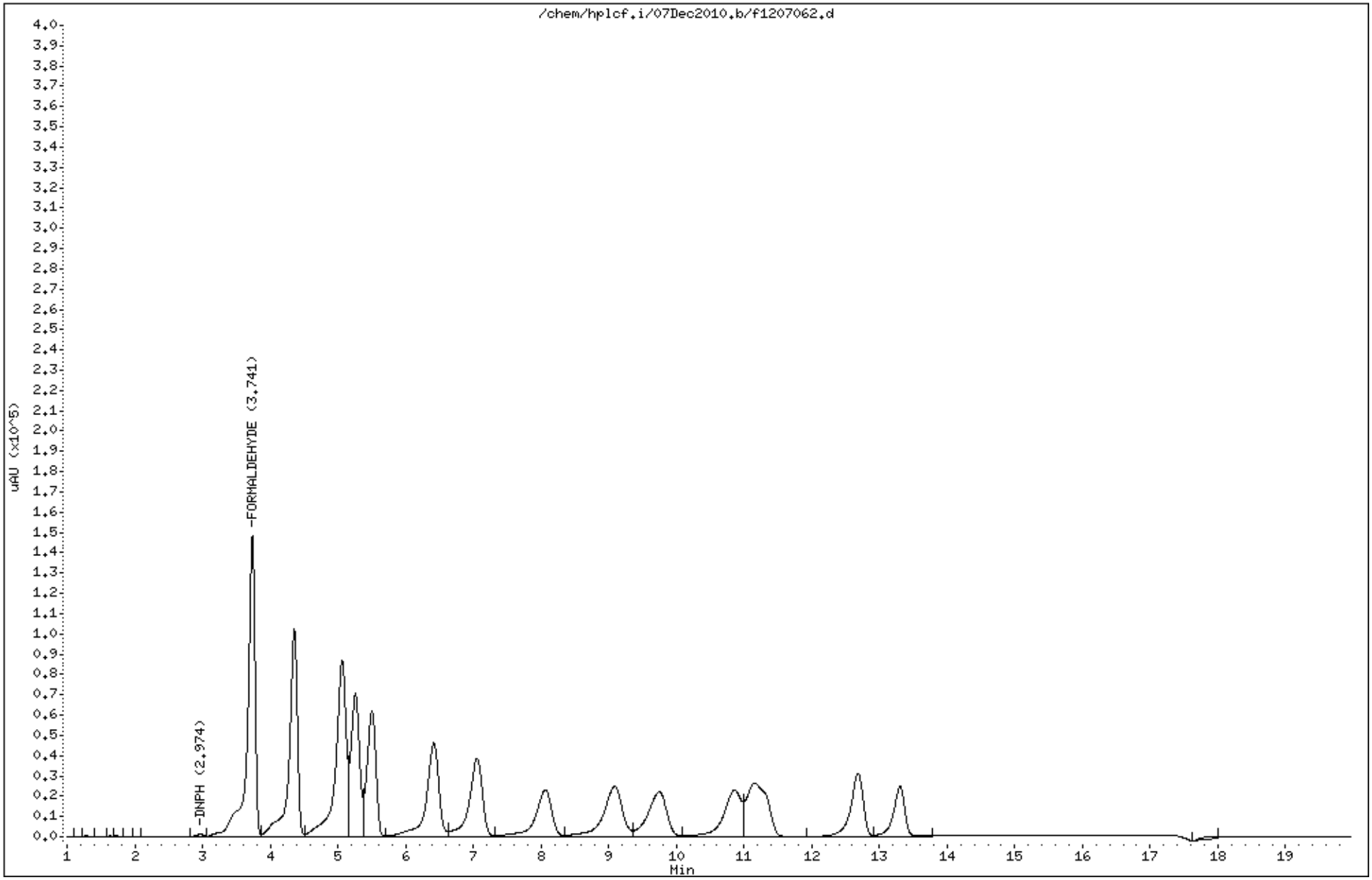
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207063.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 08-DEC-2010 07:28
Operator : LZ Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.932	2.941	-0.009	1401		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/07Dec2010.b/f1207063.d

Date : 08-DEC-2010 07:28

Client ID: LAB BLANK

Instrument: hplcf.i

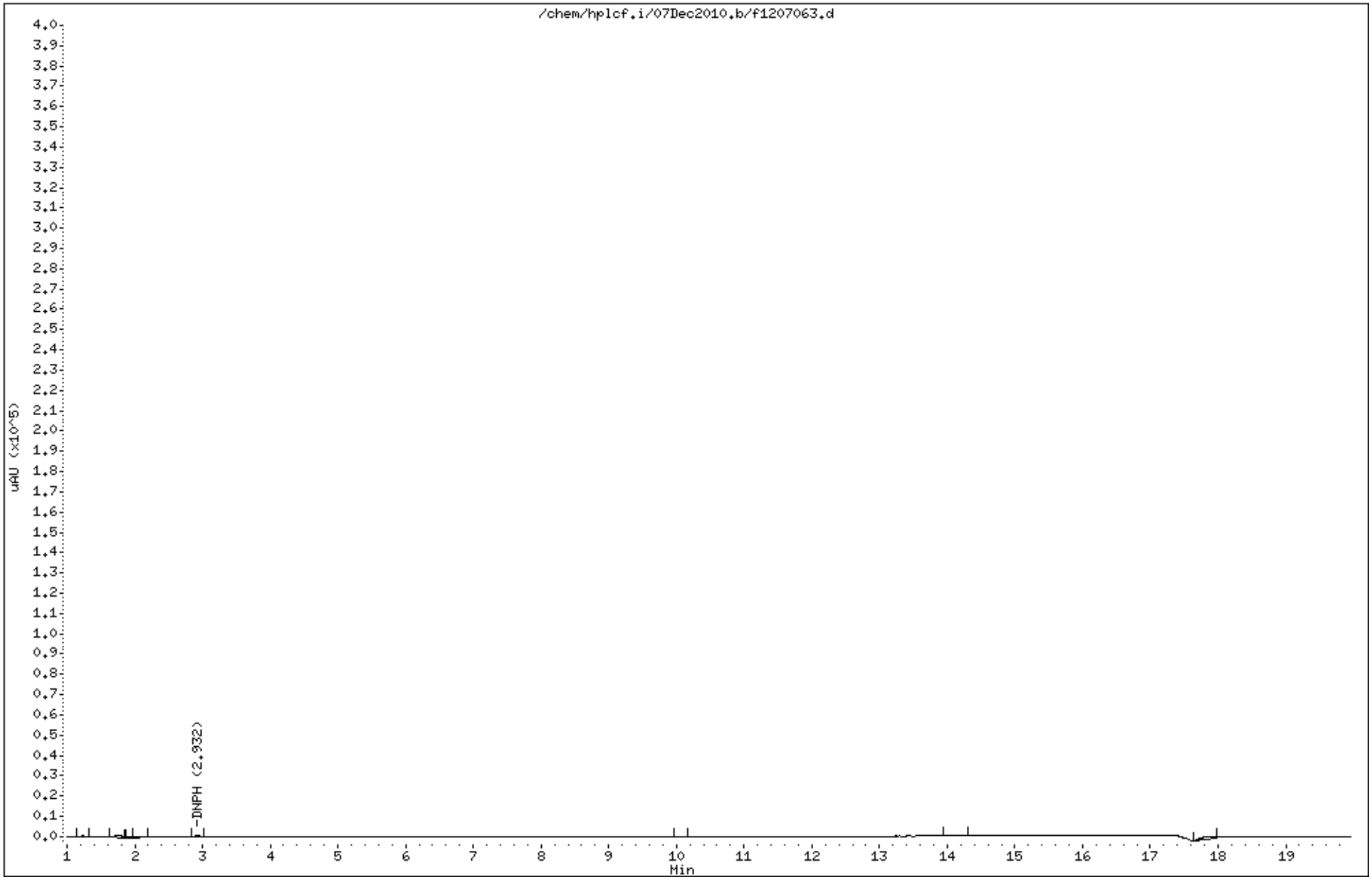
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Report Date: 08-Dec-2010 11:57

Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1838-41-10
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type: OTHER
Data Type: LC DATA
Misc Info:

Client SDG: 07Dec2010
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ESTD
Level: MED
Operator: LZ

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.3	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/07Dec2010.b/f1207069.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 08-DEC-2010 09:33
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.974	2.941	0.033	5181		
2 FORMALDEHYDE	3.740	3.694	0.046	1131231	10.3333	10.3

Report Date: 08-Dec-2010 11:57

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 07Dec2010
Sample Matrix: LIQUID
Fraction: OTHER
Lab Smp Id: 1838-41-10
Client Smp ID: CCV
Level: MED
Operator: LZ
Data Type: LC DATA
SampleType: METHSPIKE
SpikeList File: 4fug.spk
Quant Type: ESTD
Sublist File: form.sub
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.3	103.33	90-110

Data File: /chem/hplcf.i/07Dec2010.b/f1207069.d

Date : 08-DEC-2010 09:33

Client ID: CCV

Instrument: hplcf.i

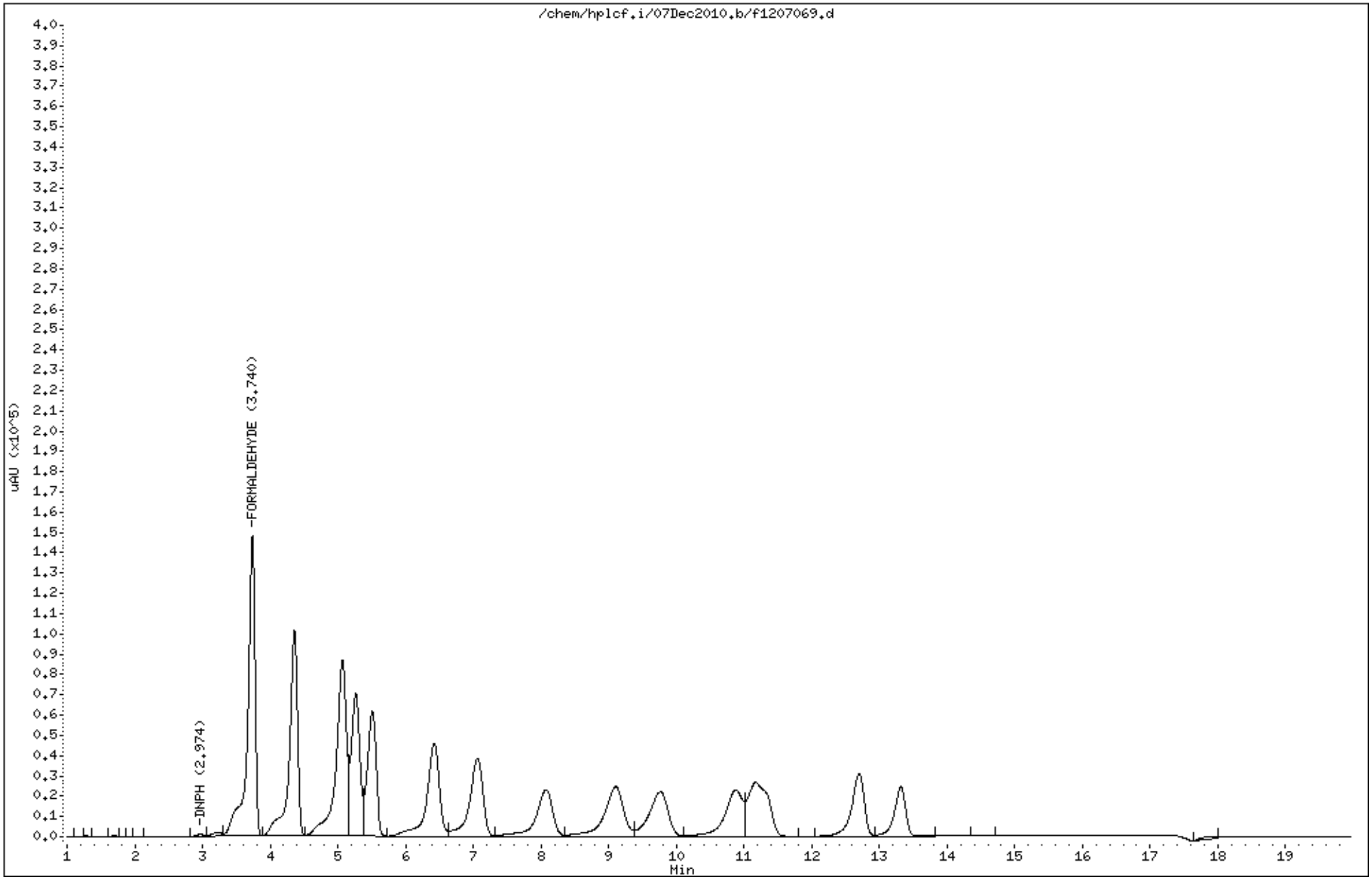
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1012041B-32A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207027**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/7/10 06:56 PM**
		Date of Extraction: 12/6/10

Compound	**%Recovery**
Formaldehyde	106

Container Type: Radiello 165 (Aldehydes)

Report Date: 08-Dec-2010 11:54

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 07Dec2010
Sample Matrix: LIQUID
Fraction: OTHER
Lab Smp Id: 1012041B
Client Smp ID: LCS
Level: MED
Operator: LZ
Data Type: LC DATA
SampleType: LCS
SpikeList File: Form15TO11.spk
Quant Type: ESTD
Sublist File: form.sub
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	15.0	15.9	106.18	85-115

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207027.d
Lab Smp Id: 1012041B Client Smp ID: LCS
Inj Date : 07-DEC-2010 18:56
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B;LCS
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.939	2.941	-0.002	37279055		
2 FORMALDEHYDE	3.746	3.694	0.052	4358854	39.8162	15.9

Data File: /chem/hplcf.i/07Dec2010.b/f1207027.d

Date : 07-DEC-2010 18:56

Client ID: LCS

Instrument: hplcf.i

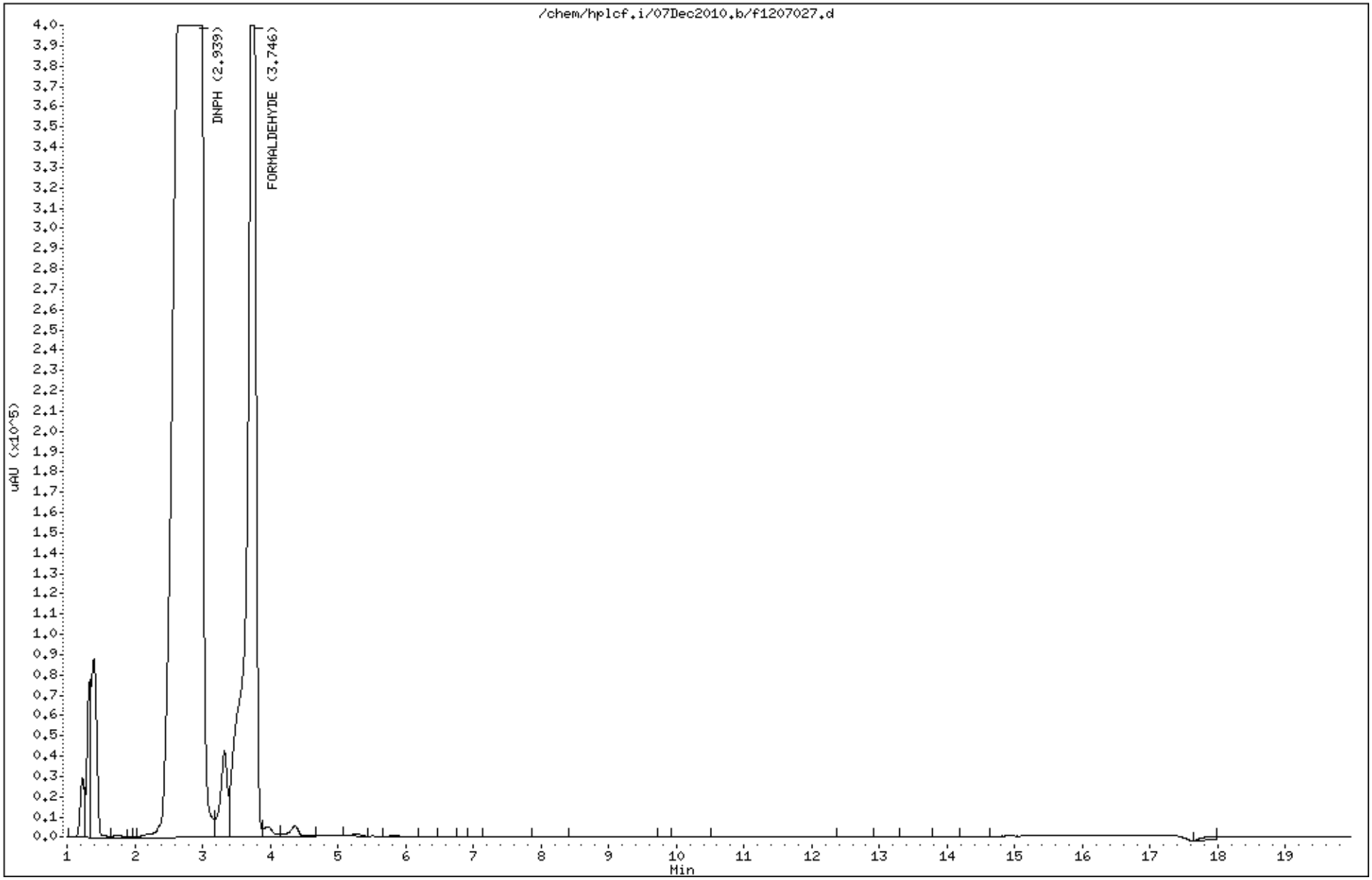
Sample Info: ;1012041B;LCS

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1012041B-32AA

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1207028**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/7/10 07:16 PM**
		Date of Extraction: 12/6/10

Compound	**%Recovery**
Formaldehyde	107

Container Type: Radiello 165 (Aldehydes)

Report Date: 08-Dec-2010 11:54

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 07Dec2010
Sample Matrix: LIQUID
Fraction: OTHER
Lab Smp Id: 1012041B
Client Smp ID: LCSD
Level: MED
Operator: LZ
Data Type: LC DATA
SampleType: LCSD
SpikeList File: Form15TO11.spk
Quant Type: ESTD
Sublist File: form.sub
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	15.0	16.0	106.92	85-115

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207028.d
Lab Smp Id: 1012041B Client Smp ID: LCSD
Inj Date : 07-DEC-2010 19:16
Operator : LZ Inst ID: hplcf.i
Smp Info : ;1012041B;LCSD
Misc Info :
Comment :
Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m
Meth Date : 08-Dec-2010 11:37 lzhang Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.937	2.941	-0.004	35242121		
2 FORMALDEHYDE	3.744	3.694	0.050	4389548	40.0966	16.0

Data File: /chem/hplcf.i/07Dec2010.b/f1207028.d

Date : 07-DEC-2010 19:16

Client ID: LCSD

Instrument: hplcf.i

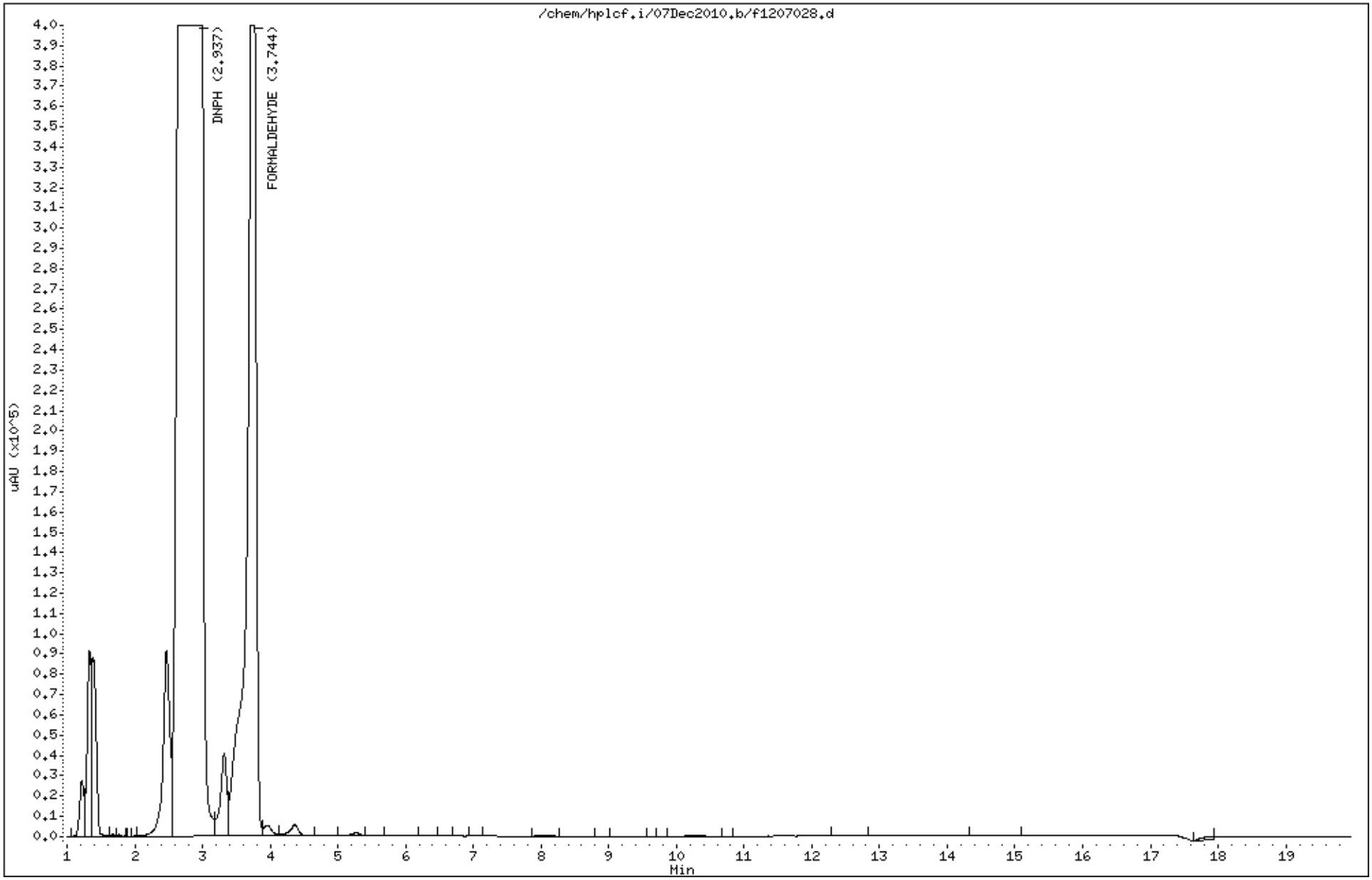
Sample Info: ;1012041B;LCSD

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



TO-11 Extraction Logbook

@Air Toxics Ltd.

Log Book #: 2010

ATL Work Order # 1012041B
Date Extracted 12/6/10

Final Solvent: ACN
Spike I.D.: 1476-1963-50ng
Spike Witness: MJS

Solvent Lot #: DB251
Spiked By: Fm

ATL Fraction	Clients I.D. #	Cartridge type & size	Final Volume (ml)	Spike Amount (ul)	Comments
1012041B-16A	116795	Rad 165	2	NA	
-17A	96				
-18A	97				
-19A	98				
-20A	99				
-21A	116811				
-22A	12				
-23A	13				
-24A	14				
-25A	15				
-26A	27				
-27A	28				
-28A	29				
-29A	30				
-30A	31				
-BLK	NA	Rad 165 Lot# 10204			
-LCS		10048		30	

Comments:

Fm 12/9/10

Signed: Fm

Date: 12/9/10

HPLC-F Run Logbook **@Air Toxics Ltd.** **Logbook Book #: 1956**

Method: TO-11 / Radiell 165 Pressure: 101 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	f1207004	1838-41-10 CCV	1.00	W	12/7/10	1114	W	
✓	5	CCB	1.00	|	|	1135	|	
X	6	NA					→	Not injected.
✓	7	1011653/1012012-lab Blk	1.00	W	12/7/10	1158	W	
✓	8	-LCS	|	|	|	1219	|	old from previous
✓	9	-LCSD	|	|	|	1240	|	Re-alig.
X	10	1011653 -04A	|	|	|	1300	|	
X	11	-01A	|	|	|	1321	CW	
X	12	-02A	|	|	|	1342	|	
X	13	1011653/1012012 -LCS	|	|	|	1403	|	Re-alig.
X	14	1011653 -03A	|	|	|	1424	|	
X	15	1012012 -01A	|	|	|	1445	|	
X	16	-02A	|	|	|	1506	|	
X	17	-03A	|	|	|	1527	|	
X	18	AEN Wash	|	|	|	1548	|	
X	19	1838-41-10 CCV	|	|	|	1608	|	Propanol only
✓	20	CCB	|	|	|	1629	|	
✓	21	1838-41-10 CCV	|	|	|	1650	|	Formaldehyde only Propanol out ✓
✓	22	CCB	|	|	|	1711	|	
✓	23	1012041A-Lab Blk	|	|	|	1732	|	
✓	24	B-Lab Blk	|	|	|	1753	|	
✓	25	A-LCS	|	|	|	1814	|	
✓	26	A-LCSD	|	|	|	1835	|	
✓	27	B-LCS	|	|	|	1856	|	
✓	28	B-LCSD	|	|	|	1916	|	
✓	29	A-04A	|	|	|	1937	|	
✓	30	A-05A	|	|	|	1958	|	
✓	31	A-09A	|	|	|	2019	↓	

Calculation Check:

File ID: f1207015.d Compound: Formaldehyde Initials: CW

$$\text{Sample Amt} = \frac{\text{Area Counts Sample}}{\text{RF}} \times \text{DF} = \frac{(1275713)}{(109474)} \times (1.00) = 11.6$$

Reported Result: 11.6

Cassy Leaf 12/8/10

Signed Date

HPLC-F Run Logbook **@Air Toxics Ltd.** **Logbook Book #: 1956**

Method: To-11 / Radiello 165 Pressure: 100 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	f1207032	1012041A-10A	1.00	W	12/7/10	2040	W	
✓	33	A-14A				2101	CW	
✓	34	A-15A				2122		
✓	35	CCB-AeN				2143		
✓	36	1838-41-10 CCV				2204		
✓	37	CCB				2224		
✓	38	1012041B-19A				2245		
✓	39	-20A				2306		
✓	40	-24A				2327		
✓	41	-25A				2348		
✓	42	-29A			12/8/10	0009		
✓	43	-30A				0030		
✓	44	1012041A-01A	10.0			0051		
✓	45	-02A				0112		
✓	46	-03A				0133		
✓	47	-06A				0153		
✓	48	AeN Wash ~~-07A~~	1.00			0214		
✓	49	1838-41-10 CCV ~~08A~~ W 12/7/10				0235		
✓	50	CCB				0256		
✓	51	1012041A-07A	W 12/7/10 10.0			0317		
✓	~~52~~ W 12/7/10	-08A	10.0			0338		
✓	53	-11A				0359		
✓	54	-12A				0420		
✓	55	-13A				0441		
✓	56	1012041B-16A				0501		
✓	57	-17A				0522		
✓	58	-18A				0543		
✓	59	-21A				0604	✓	

~~**Calculation Check:**~~

File ID:_____ Compound:_____ Initials:_____

Sample Amt = Area Counts Sample × DF = ( ) × ( ) = [redacted]
RF ( )

~~Reported Result:~~ [redacted]

CW 12/8/10

Cary Leal Signed 12/8/10 Date

HPLC-F Run Logbook **@Air Toxics Ltd.** **Logbook Book #: 1956**

Method: TO-11 / Radiello 165 Pressure: 100 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	f1207060	1012041B-22A	10.0	W	12/8/10	0625	CW	
✓	61	Acn Wash	1.00			0646		
✓	62	1838-41-10 ccv				0707		
✓	63	CCB				0728		
✓	64	1012041B-23A	10.0			0749		
✓	65	-26A				0809		
✓	66	-27A				0830		
✓	67	-28A				0851		
✓	68	Acn Wash	1.00			0912		
✓	69	1838-41-10 ccv				0933		

Calculation Check:

File ID:_____ Compound:_____ Initials:_____

Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}}$ × DF = $\frac{(\quad)}{(\quad)}$ × ( ) = [redacted]

Reported Result: [redacted]

CW 12/8/10

Campbell 12/8/10

Signed Date

Shipping/ Receiving Documents

Air Toxics LTD.
Laboratory Services Since 1989

Air Toxics Ltd. Sample Receipt Confirmation Cover Page

Thank you for choosing Air Toxics Ltd. We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for

For corrections ca **Ausha Scott at 916-985-1000**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the Chain of Custody (COC) will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 1 DEC 10

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

1012041B

TO: AIR TOXICS

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17131

The cost of this analysis will be covered by EH&E Purchase Order # 17131

For EH & E Data Coordinator - URGENT DATA ☐

	SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
16A	116795	AIR/PASSIVE	FORMALDEHYDE ANALYSIS 11/16/10 - 11/30/10	13D 23H 40M
17A	116796			
18A	116797			
19A	116798			
20A	116799			Ø
21A	116811		11/16/10-11/30/10	14D 25M
22A	116812			
23A	116813			
24A	116814			
25A	116815			Ø
26A	116827		11/16/10-11/30/10	13D 23H 10M
27A	116828			
28A	116829			
29A	116830			
30A	116831			Ø

Special instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

☐ **RETURN SAMPLES** ☒ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient bbuker@eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: _____ of Environmental Health & Engineering, Inc. Date: 12/1/10

Received by: Brian Whittaker of (company name) ATL Date: 12/2/10

Relinquished by: _____ of (company name) Fedex Date: _____

Received by: _____ of (company name) _____ Date: _____

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Page 2 of 2

WHITE-EH&E FILE COPY YELLOW-LAB COPY PINK-PROJECT MANAGER COPY GOLD-DATA COORDINATOR COPY

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 1012041B

Client

Mr. Brian Baker
Environmental Health &
Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Sales Rep: TL

Phone

800-825-5343

Fax

781-247-4305

Date Promised: 12/16/10
Date Completed: 12/15/10
Date Received: 12/2/10
PO#: 17131
Project#: 17131

Total $: $ 1,425.00
Logged By: AW

Fraction	Sample #	Analysis	Collected	Amount$
16A	116795	Modified TO-11A	11/30/2010	$90.00
17A	116796	Modified TO-11A	11/30/2010	$90.00
18A	116797	Modified TO-11A	11/30/2010	$90.00
19A	116798	Modified TO-11A	11/30/2010	$90.00
20A	116799	Modified TO-11A	NA	$90.00
21A	116811	Modified TO-11A	11/30/2010	$90.00
22A	116812	Modified TO-11A	11/30/2010	$90.00
23A	116813	Modified TO-11A	11/30/2010	$90.00
24A	116814	Modified TO-11A	11/30/2010	$90.00
25A	116815	Modified TO-11A	NA	$90.00
26A	116827	Modified TO-11A	11/30/2010	$90.00
27A	116828	Modified TO-11A	11/30/2010	$90.00
28A	116829	Modified TO-11A	11/30/2010	$90.00
29A	116830	Modified TO-11A	11/30/2010	$90.00
30A	116831	Modified TO-11A	NA	$90.00
31A	Lab Blank	Modified TO-11A	NA	$0.00
32A	LCS	Modified TO-11A	NA	$0.00
32AA	LCSD	Modified TO-11A	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#: CPSC/14482

BILL TO: Accounts Payable
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Analysis Code: HPLC

TERMS:

Reporting Method: Modified TO-11A Passive-Radiello 165 (Sh)-Form only

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY Continued

Client

Mr. Brian Baker
Environmental Health &
Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Sales Rep:

Phone

800-825-5343

Fax

781-247-4305

Date Promised:
Date Completed: 12/15/10
Date Received: 12/2/10
PO#: 17131
Project#: 17131

Total $: $ 1,425.00
Logged By: AW

Fraction	Sample #	Analysis	Collected	Amount$
Misc. Charges	eCVP (15) @ $5.00 each.			$75.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: CPSC/14482

BILL TO: Accounts Payable
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Analysis Code: HPLC

TERMS:

Reporting Method: Modified TO-11A Passive-Radiello 165 (Sh)-Form only

Other Records

Compound List

Modified TO-11A Passive-Radiello 165 (Sh)-Form only

CAS Number	Compound	Detection Limit ug	Type
50-00-0	Formaldehyde	1.0	

DATA REVIEW CHECKLIST

Work Order #: 1012041B

A_1	A_2	W	T	R	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.
☐	☐	NA				Non-Standard sublist printed/verified, LOQ and LOD verified
		☑	☐	☐	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
		NA	☐	☐	☐	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
		NA	☐	☐	☐	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, %RSD Recalculation
		☑	☐		☐	At least one result per sample is verified against the target quant sheets/raw data
☐	☐	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☐	☐	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
		NA	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		☐	☐			TICs resemble reference spectra
		☑	☐			TICs between duplicate samples are consistent
☐	☐	☑	☐	☐	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☐	☐	NA	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		☑	☐			Special units for all samples in the final report are correctly calculated
		☑	☐			Manually entered results checked (i.e. TPH/NMOC)
☐	☐	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☑				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody
☐	☐	☑				Date MDL(s) performed per instrument(s) 10/19/10
☐	☐	NA				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☐	☐	☐				Final pressure consistent with canister size (6L vs. 1L) RAD165
☐	☐	☐				Verify receipt pressures
☐	☐	☑				Verify canister ID #'s
		☑	☐	☐		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
		☑	☐	☐		Final PDF report reviewed for correctness

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

A/R: 1) Dup-LCS/LCSD 2) FB = 20A, 25A, 30A [illegible] 3) Client sampled more than 7days 4) Client provided ~~air vol~~ canister to sampling duration = (16A – 19A) [illegible] 13 days 23 hours, 40min = 20140min (21A-24A) 14 days 25 min = 20185 minutes (26A-29A) 13 days, 23 hours, 10min = 20110 minutes

T/Q:

A_1/A_2 (Analytical Review/Date)	W/T (Write-up/Tech Review/Date)	R* (Report Review/Date)	Q (QA Review/Date)
A_1:	W: Cory Leaf 12/15/10	R:	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.
Note (2): Report reviewer and write-up reviewer must be separate individuals for DoD & Client Specific projects.

Not Applicable