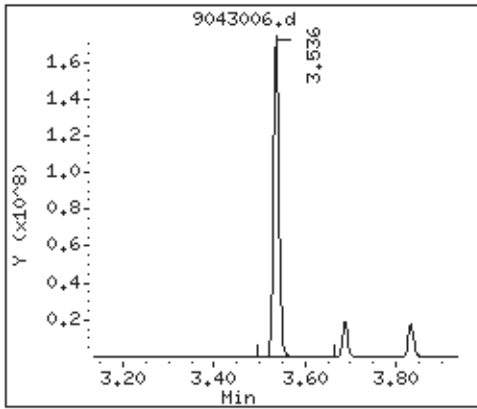
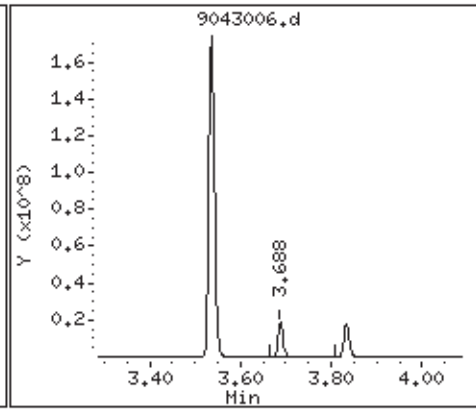


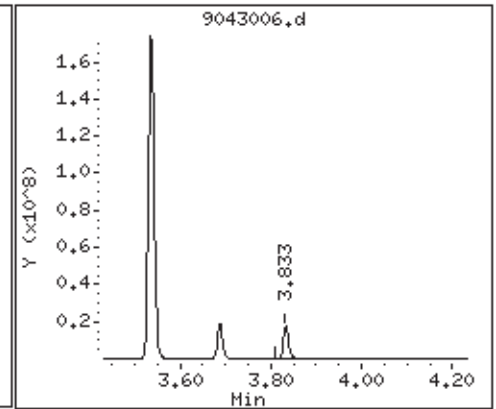
2 Methane



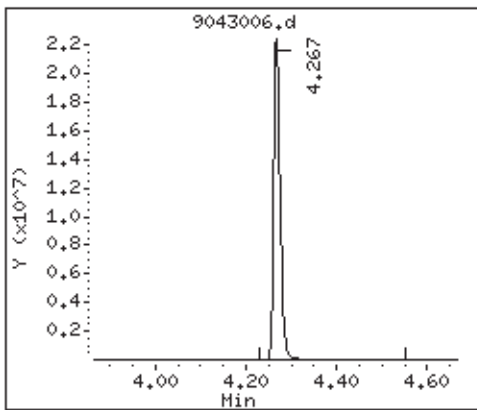
3 ethane



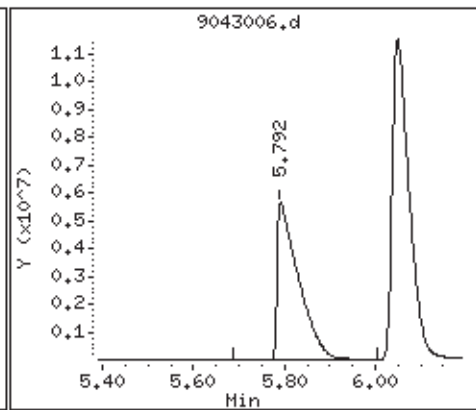
4 ethene



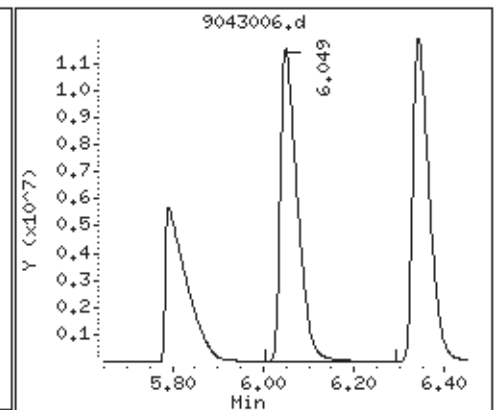
5 propane



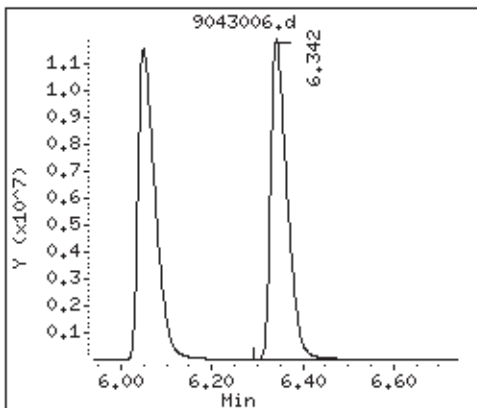
7 acetylene



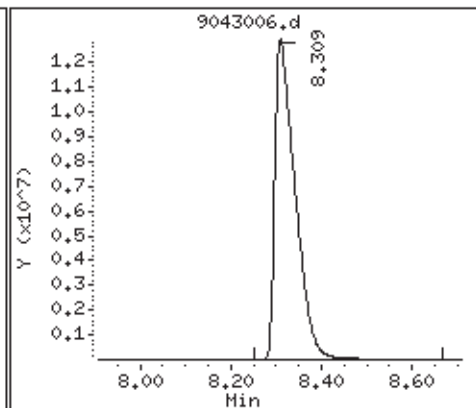
8 iso-butane



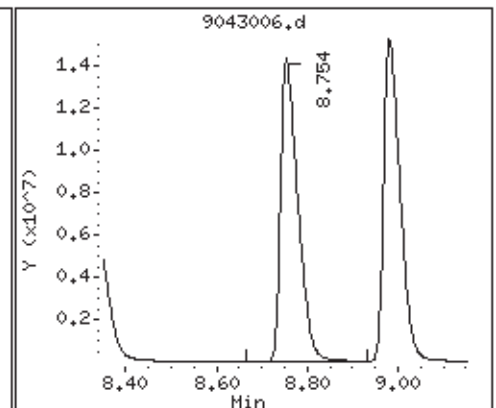
10 n-butane



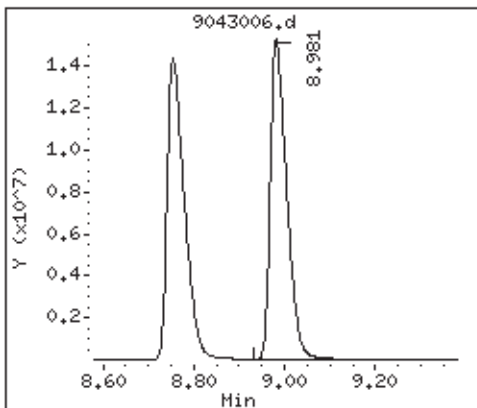
15 neo-pentane



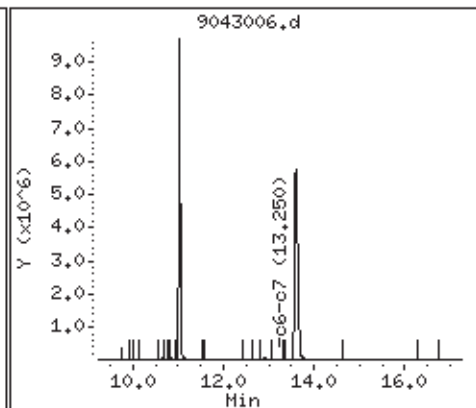
16 isopentane



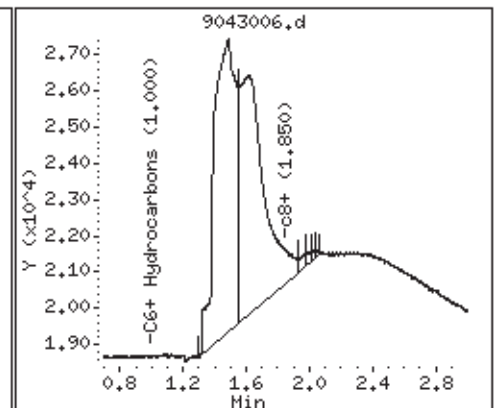
17 pentane



S 22 c6-c7



S 36 c8+



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043015.d
Lab Smp Id: 1476-898 Client Smp ID: Level-6
Inj Date : 30-APR-2010 17:55
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL(5:100),
Misc Info : Isopentane
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 17:55 Cal File: 9043015.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: isopentane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

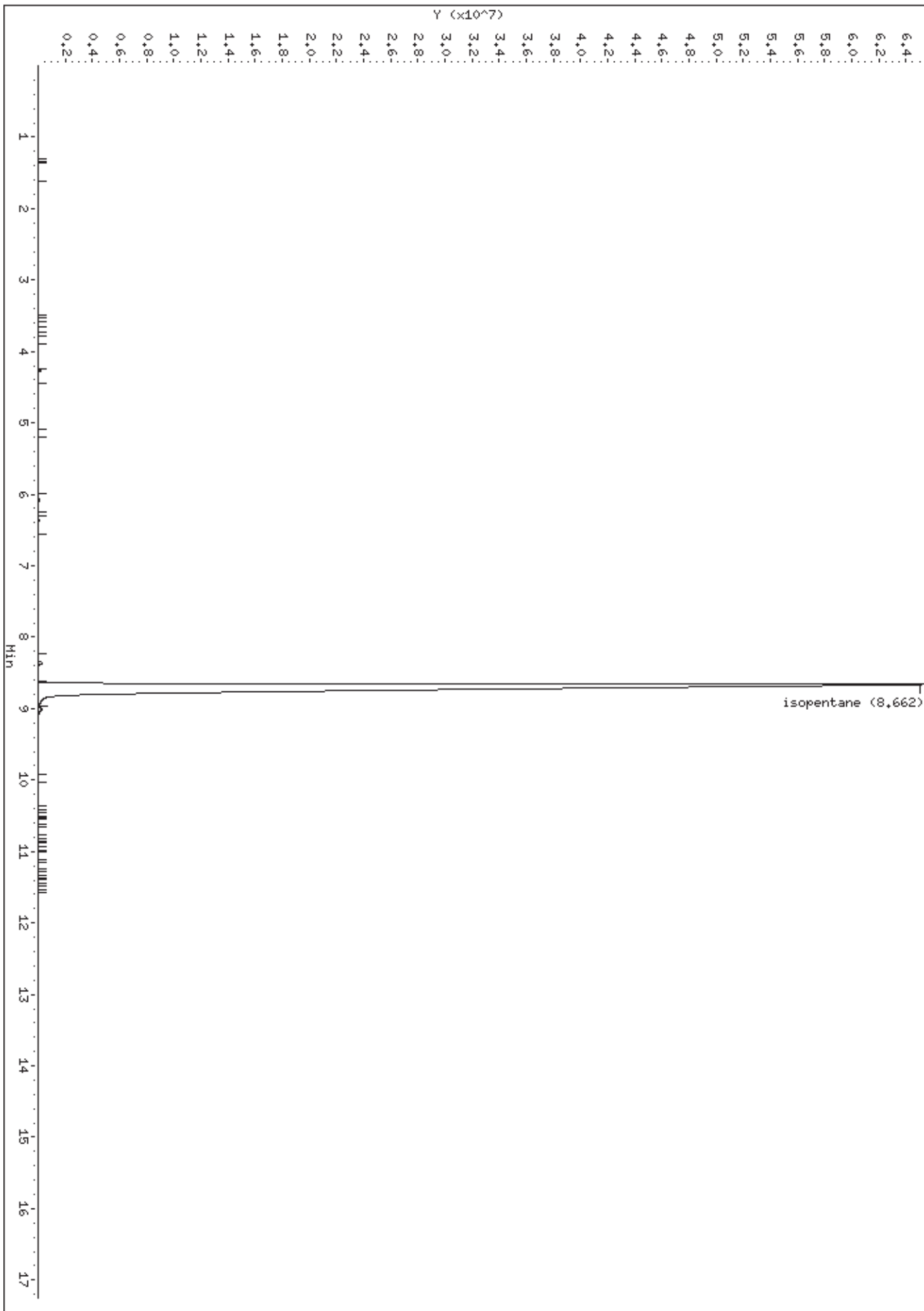
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
16 isopentane	8.662	8.754	-0.092	3298665077	4.95000	4.42(A)

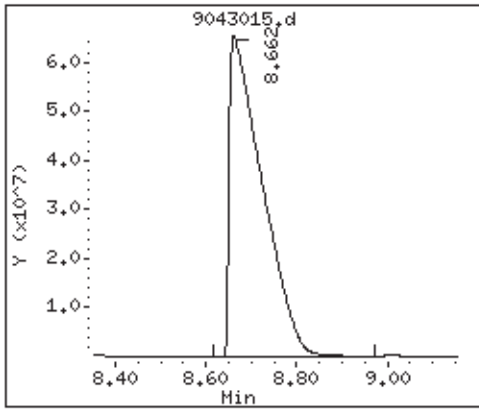
QC Flag Legend

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

/chem/gc9.1/30Apr2010.b/9043015.d



16 isopentane



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043012.d
Lab Smp Id: 1476-897 Client Smp ID: Level-6
Inj Date : 30-APR-2010 15:55
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL(5:50),
Misc Info : Butane
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 15:55 Cal File: 9043012.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: Butane.sub
Target Version: 3.50
Processing Host: eeyore

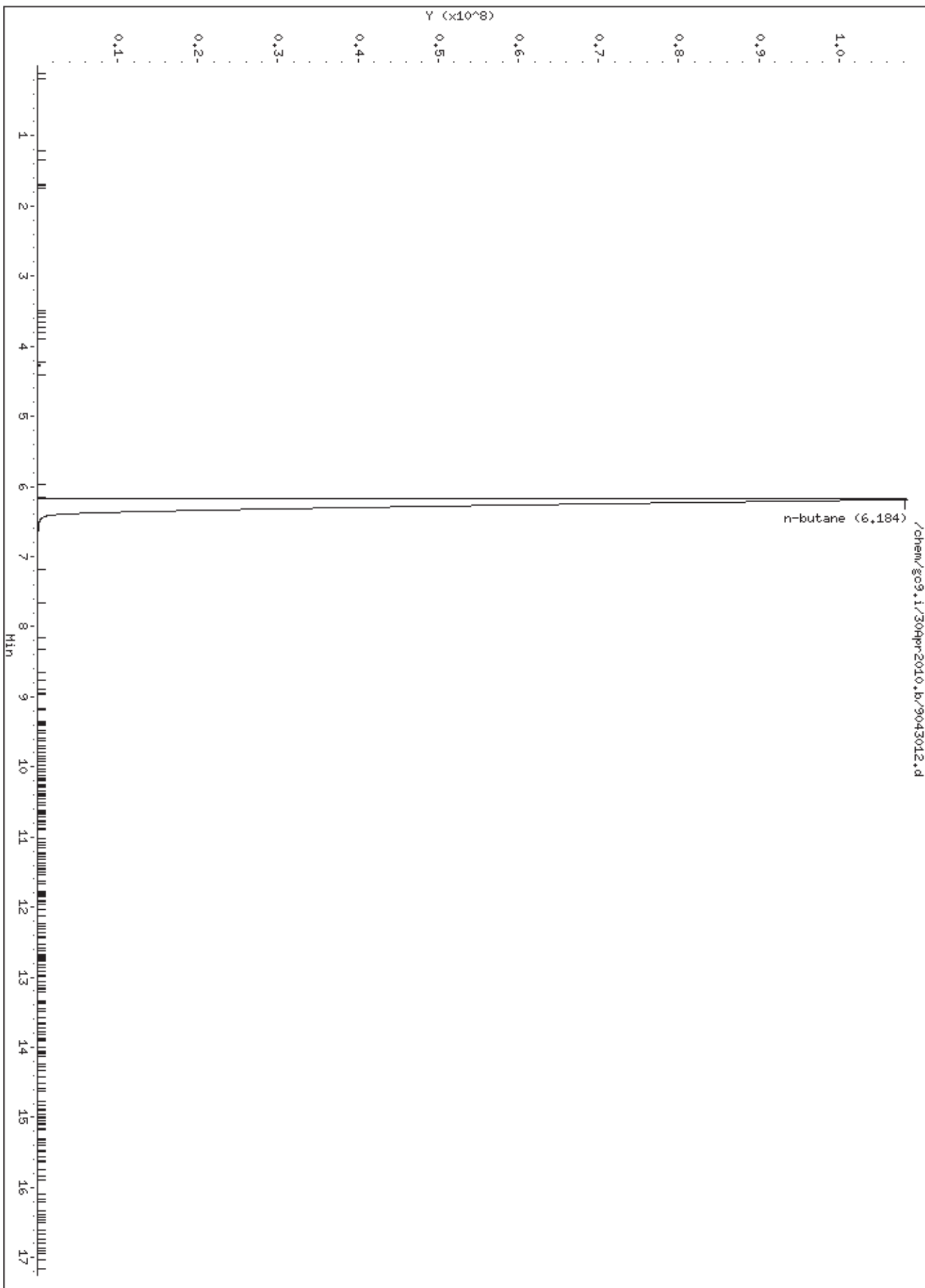
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

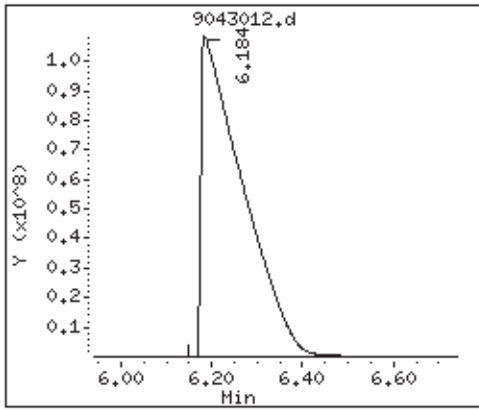
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
10 n-butane	6.184	6.342	-0.158	6972625144	9.99000	11.1(A)

QC Flag Legend

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



10 n-butane



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043011.d
Lab Smp Id: 843-471 Client Smp ID: Level-6
Inj Date : 30-APR-2010 15:29
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL(10:50),
Misc Info : Propane
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 15:29 Cal File: 9043011.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: propane.sub
Target Version: 3.50
Processing Host: eeyore

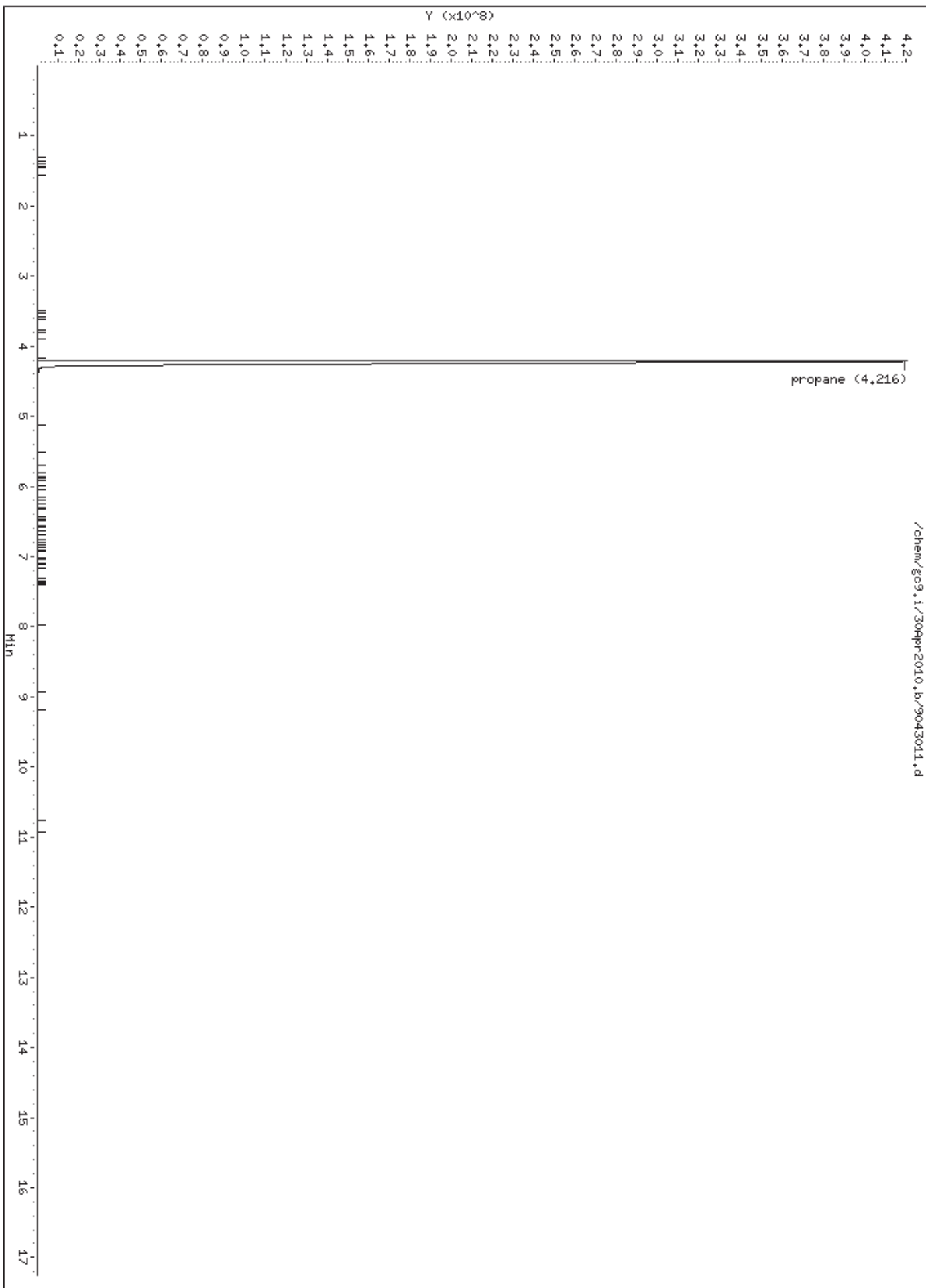
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

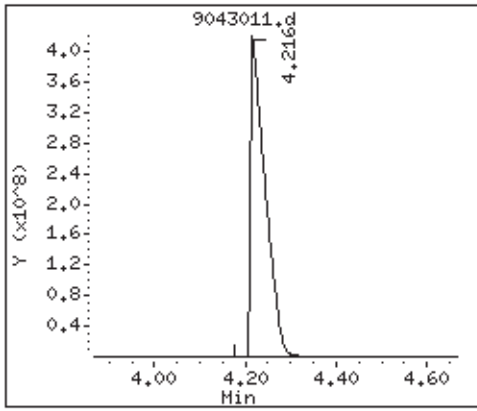
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
5 propane	4.216	4.267	-0.051	9527733099	19.9000	20.6(A)

QC Flag Legend

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



5 propane



Air Toxics Ltd.

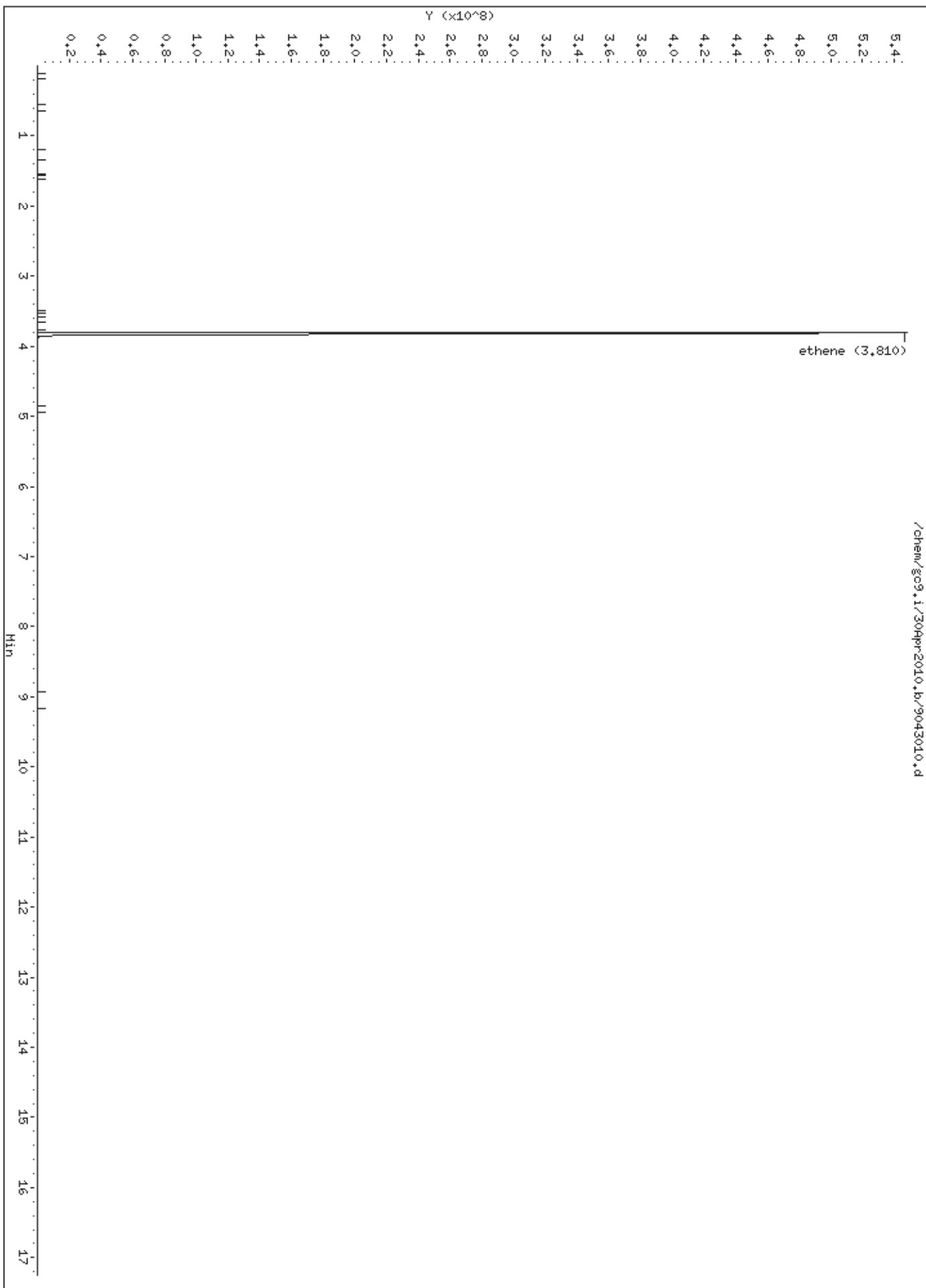
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043010.d
Lab Smp Id: 1476-437 Client Smp ID: Level-6
Inj Date : 30-APR-2010 15:02
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL(12.5:50),
Misc Info : Ethene
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 15:02 Cal File: 9043010.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ehtene.sub
Target Version: 3.50
Processing Host: eeyore

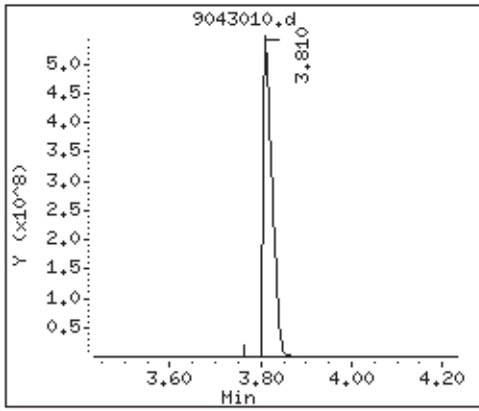
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
===== 4 ethene	3.810	3.833	-0.023	7353764724	24.8750	24.6



4 ethene



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043009.d
Lab Smp Id: 1476-438 Client Smp ID: Level-6:
Inj Date : 30-APR-2010 14:28
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL(12.5:50),
Misc Info : Ethane
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 14:28 Cal File: 9043009.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ehtane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

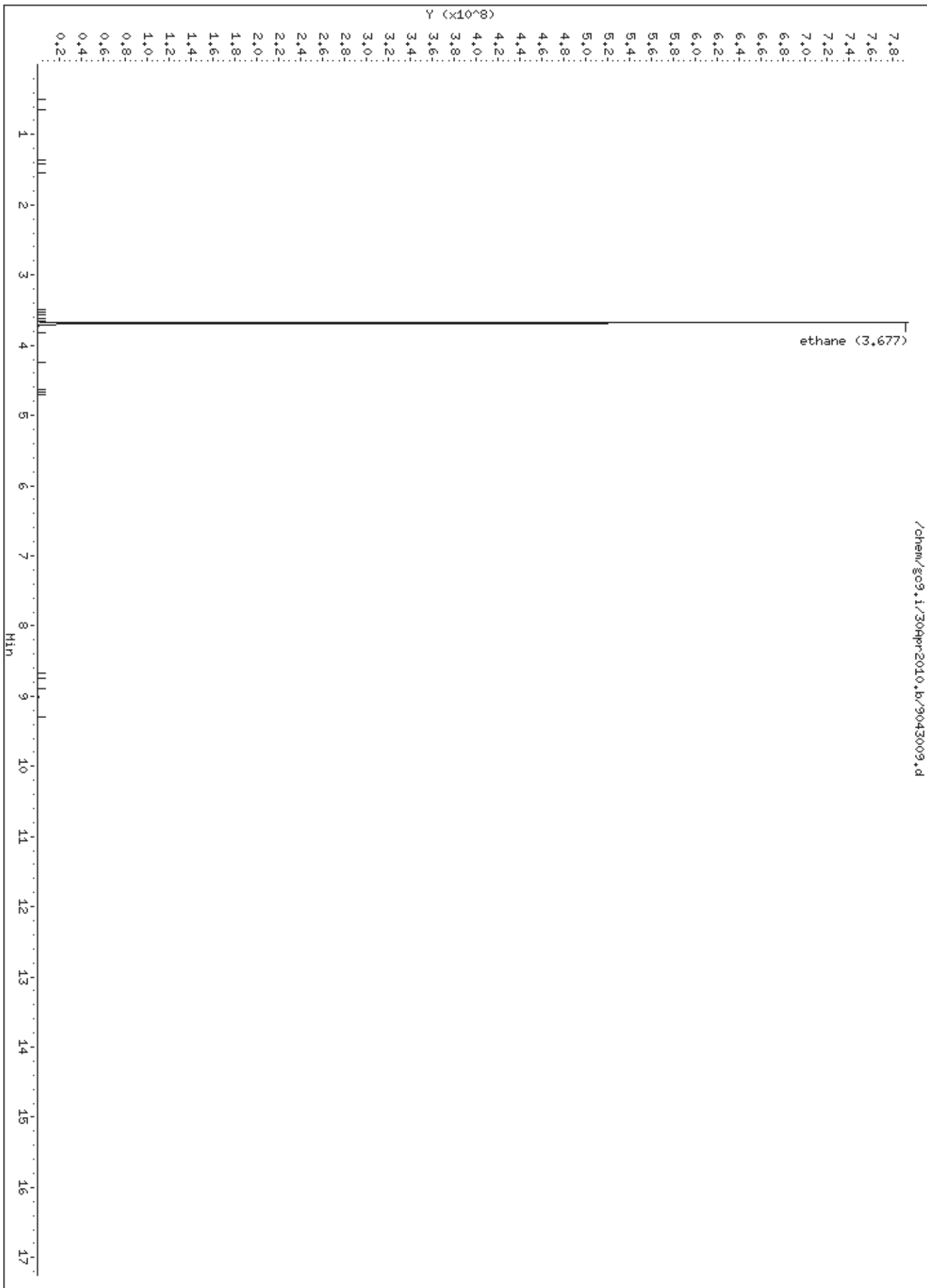
Cpnd Variable

Local Compound Variable

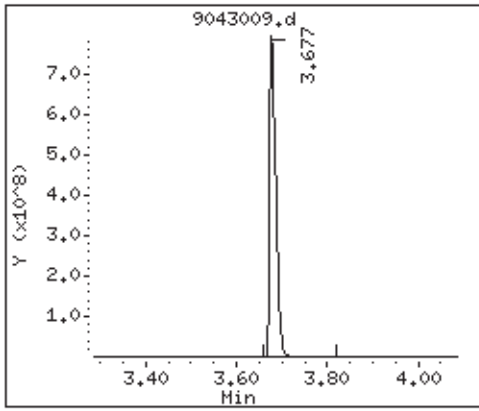
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	
3 ethane	3.677	3.688	-0.011	7661033105	24.9750	25.2(A)

QC Flag Legend

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



3 ethane



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043008.d
Lab Smp Id: 1476-910 Client Smp ID: Level-6:
Inj Date : 30-APR-2010 13:54
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,
Misc Info : Pentane
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 13:54 Cal File: 9043008.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: Pentane.sub
Target Version: 3.50
Processing Host: eeyore

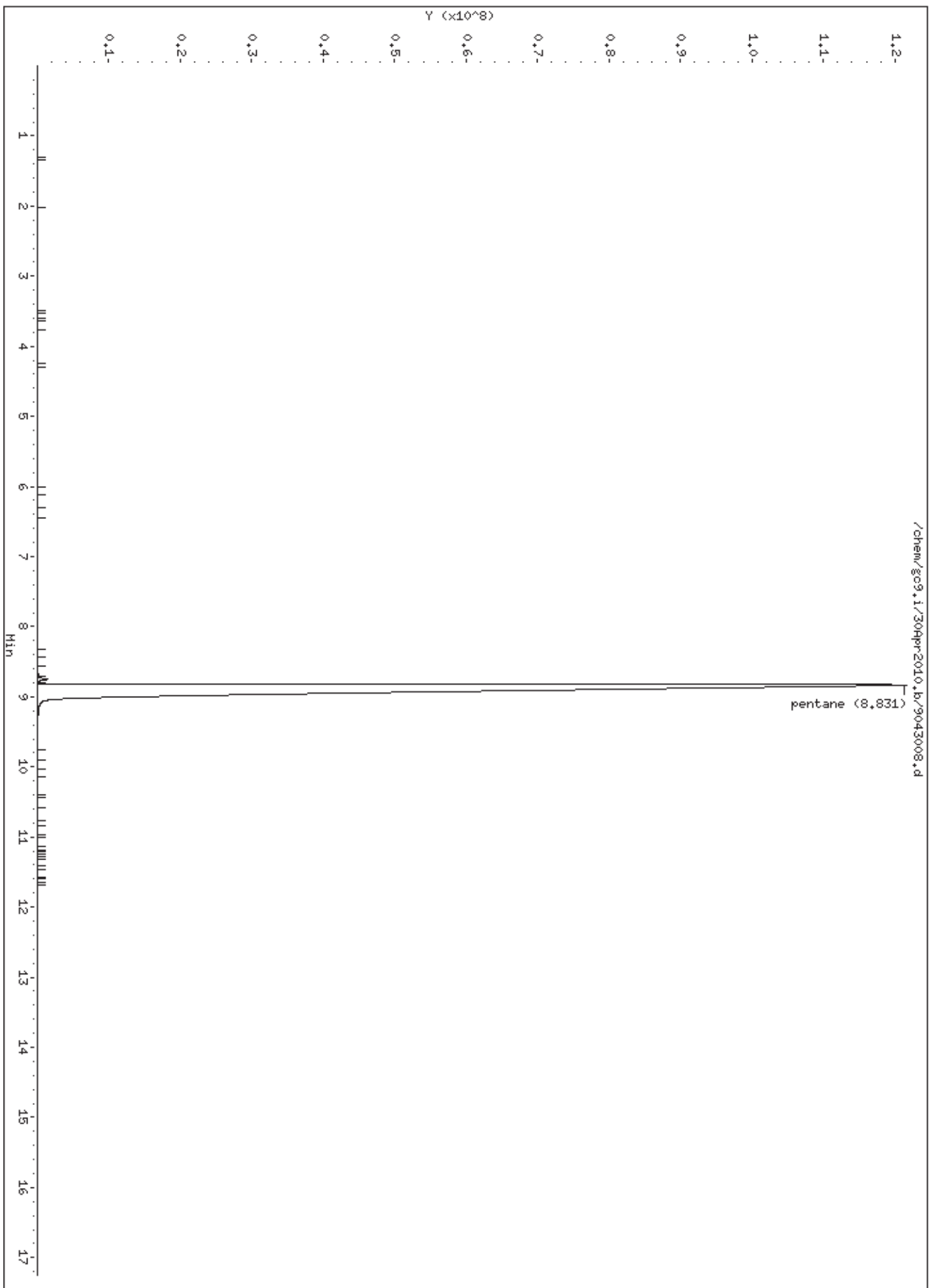
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

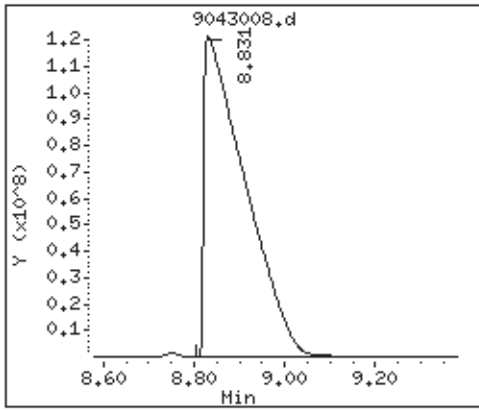
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
17 pentane	8.831	8.981	-0.150	7689887757	9.99000	9.95(A)

QC Flag Legend

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



17 pentane



Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-APR-2010 09:26
 End Cal Date : 17-APR-2010 16:10
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem/gc9.i/17Apr2010.b/910C0417.m
 Cal Date : 19-Apr-2010 10:48 gmash
 Curve Type : Average

Calibration File Names:

Level 1: /chem/gc9.i/17Apr2010.b/9041714b.d
 Level 2: /chem/gc9.i/17Apr2010.b/9041716b.d
 Level 3: /chem/gc9.i/17Apr2010.b/9041718b.d
 Level 4: /chem/gc9.i/17Apr2010.b/9041720b.d
 Level 5: /chem/gc9.i/17Apr2010.b/9041711b.d

Compound	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
1 Helium	67829686	67931134	67110407	64573848	++++	66861269	2.345
2 Hydrogen	98669700	111145755	108640962	101986198	++++	105110654	5.496
3 Carbon Dioxide	658282085	508739099	525547255	519170311	540430994	550433949	11.150
9 Oxygen	321739168	289586327	386868260	311792564	319509160	325899096	11.162
10 Nitrogen	458006131	337845541	349963286	341039571	337598448	364890596	14.331
12 Carbon Monoxide	249181994	252716240	289952941	307142367	318118751	283422459	11.052

Calibration History

Method : /chem/gc9.i/17Apr2010.b/910C0417.m
 Start Cal Date: 17-APR-2010 09:26
 End Cal Date : 17-APR-2010 16:10

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00000		
17-APR-2010 13:45	heh2	/chem/gc9.i/17Apr2010.b/9041714b.d
17-APR-2010 09:26	ngas-H2He	/chem/gc9.i/17Apr2010.b/9041704b.d
Cal Level: 2 , Cal Amount: 0.00000		
17-APR-2010 14:30	h2	/chem/gc9.i/17Apr2010.b/9041716b.d
17-APR-2010 14:07	he	/chem/gc9.i/17Apr2010.b/9041715b.d
17-APR-2010 09:48	ngas-H2He	/chem/gc9.i/17Apr2010.b/9041705b.d
Cal Level: 3 , Cal Amount: 0.00000		
17-APR-2010 15:17	he	/chem/gc9.i/17Apr2010.b/9041718b.d
17-APR-2010 14:53	h2	/chem/gc9.i/17Apr2010.b/9041717b.d
17-APR-2010 10:12	ngas-H2He	/chem/gc9.i/17Apr2010.b/9041706b.d
Cal Level: 4 , Cal Amount: 0.00000		
17-APR-2010 16:10	h2	/chem/gc9.i/17Apr2010.b/9041720b.d
17-APR-2010 15:47	he	/chem/gc9.i/17Apr2010.b/9041719b.d
17-APR-2010 10:34	ngas-H2He	/chem/gc9.i/17Apr2010.b/9041707b.d
Cal Level: 5 , Cal Amount: 0.00000		
17-APR-2010 12:33	co	/chem/gc9.i/17Apr2010.b/9041711b.d
17-APR-2010 12:10	co2	/chem/gc9.i/17Apr2010.b/9041710b.d
17-APR-2010 11:24	O2	/chem/gc9.i/17Apr2010.b/9041709b.d
17-APR-2010 10:58	n2	/chem/gc9.i/17Apr2010.b/9041708b.d

TCD - Curve
GC-9

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-APR-2010 09:26
 End Cal Date : 17-APR-2010 16:10
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem/gc9.i/17Apr2010.b/910C0417.m
 Cal Date : 19-Apr-2010 10:48 gmash
 Curve Type : Average

gm 4/19/10
 or 4/19/10

Calibration File Names:

- Level 1: /chem/gc9.i/17Apr2010.b/9041714b.d
- Level 2: /chem/gc9.i/17Apr2010.b/9041716b.d
- Level 3: /chem/gc9.i/17Apr2010.b/9041718b.d
- Level 4: /chem/gc9.i/17Apr2010.b/9041720b.d
- Level 5: /chem/gc9.i/17Apr2010.b/9041711b.d

Based on a 1-uml loop load.

Compound	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
1 Helium	67829686	67931134	67110407	64573848	++++	66861269	2.345
2 Hydrogen	98669700	111145755	108640962	101986198	++++	105110654	5.496
3 Carbon Dioxide	658282085	508739099	525547255	519170311	540430994	550433949	11.150
9 Oxygen	321739168	289586327	386868260	311792564	319509160	325899096	11.162
10 Nitrogen	458006131	337845541	349963286	341039571	337598448	364890596	14.331
12 Carbon Monoxide	249181994	252716240	289952941	307142367	318118751	283422459	11.052

GC-9 TCD

gm 4/19/10

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Second Source
Helium	0.04935	0.9870	50.0	100	N/A	9041721b
Hydrogen	0.01000	0.4000	2.00	25.0	N/A	9041722b
Carbon Dioxide	0.00988	0.0988	4.00	10.0	69.790	9041712b
Oxygen	0.09860	0.4931	1.000	2.50	29.910	9041712b
Nitrogen	0.09900	0.4950	28.21	70.524	100	9041712b
Carbon Monoxide	0.00983	0.1024	0.404	1.01	9.93	9041712b

ISD	File #	Sample Name/Client ID	Can #	Pressure	Amnt	DF	Date	Time	Review Init.	Comments
1	9041703	System Blank	14019	NA	1.000 NA	1.00 NA	4/17/10	0901	by	
2	04	1830-28	94301		4.417g	1.00		0926		Level -1
3	05	1830-25	14867					0948		-2
4	06	1544-3658	34219		(20:50) 1.000g			1012		-3
5	07				1.000g			1034		-4 /ccv
6	08	1476-1669-N ₂	Bag					1059		-5
7	09	1476-780 O ₂	NA		(15:50) 1.000g			1124		-5
8	10	1476-971 CO ₂	NA		(35:50) 1.000g			1210		-5
9	11	1476-599 CO	NA		(5:50) 1.000g			1233		-5
10	12	1476-1473 N ₂	NA		1.000g			1256		CCS
11	13	N ₂ Lab Blank	33868					1324		
12	14	1830-29 He/H ₂	Bag		He: 0.04955% H ₂ : 0.017%			1345		Level -1
13	15	1544-3658 He	34219		He: 0.987%			1407		-2
14	16	1476-977 H ₂	NA		(10:50) 1.000g			1430		-2
15	17				(40:50) 4.417g 1.000g			1453		-3

Calculation Check: File ID: 9041712 Compound: CO₂ Initials: by

Sample Amt = Area Counts Sample × Dilution Factor = $(5205049331) \times (1.00) = 10.0$
 RF (519170311)

Reported Result: 10.0

Signed: [Signature]

Date: 4/17/10

Method: ASTM 1945/1946

Leak Test: by

IS	File #	Sample Name/Client ID	Can #	Pressure	Amf	DF	Date	Time	Review Init.	Comments
1	✓ 9041318	1476-1675 He	NA	He: 50%	(25:50) 1.000	1.00	4/12/10	1517	by	Level-3
2	✓ 19	He		He 100%	1.000			1547		Level-4
3	✓ 20	1476-1671 He H ₂		H ₂ 25%	(20:40) 1.000			1610		Level-4
4	✓ 21	1476-1477 He N ₂		NR	1.000			1632		Less exp. 15/12
5	✓ 22	1476-1450 He						1656		Less exp. 15/12
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Calculation Check: File ID: 9041318 9041321 Compound: He Initials: by 4/12/10

Sample Amt = Area Counts Sample × Dilution Factor = $(\frac{66926466}{66956060}) \times (RF)$ = 0.971

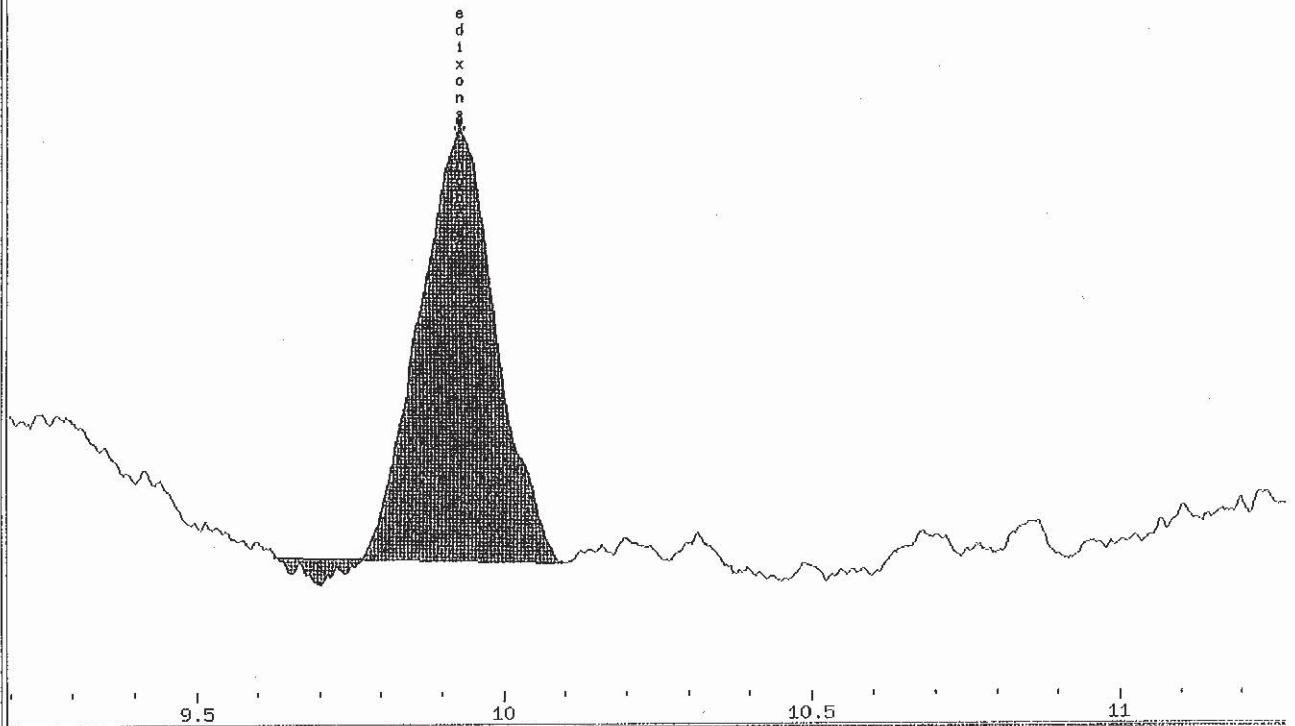
Reported Result: 0.971

Signed: [Signature]

Date: 4/12/10

Sample: 1830-26 Type: CALIB_1 Inj.Date: 17-APR-2010 09:26 Col: 1 mol\porapak

- + 3 Carbon Dioxide
- + 9 Oxygen
- + 10 Nitrogen
- + 12 Carbon Monoxide



- 9041704b.d
- 9041705b.d
- 9041706b.d
- 9041707b.d
- 9041708b.d
- 9041709b.d
- 9041710b.d
- 9041711b.d
- 9041714b.d
- 9041715b.d
- 9041716b.d
- 9041717b.d
- 9041718b.d
- 9041719b.d
- 9041720b.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
------	---------	----------	--------	------	-------	-------	---------

1	9.929	2209805	0.00983	0.00983	100	a	- Mark Carbon Monoxide Undetected.
---	-------	---------	---------	---------	-----	---	------------------------------------

*Before
gm
4/19/10*

Sample: 1830-26 Type: CALIB_1 Inj.Date: 17-APR-2010 09:26 Col: 1 mol\porapak

- + 3 Carbon Dioxide
- + 9 Oxygen
- + 10 Nitrogen
- + 12 Carbon Monoxide

Manual Int

Time: [9.926]

Done

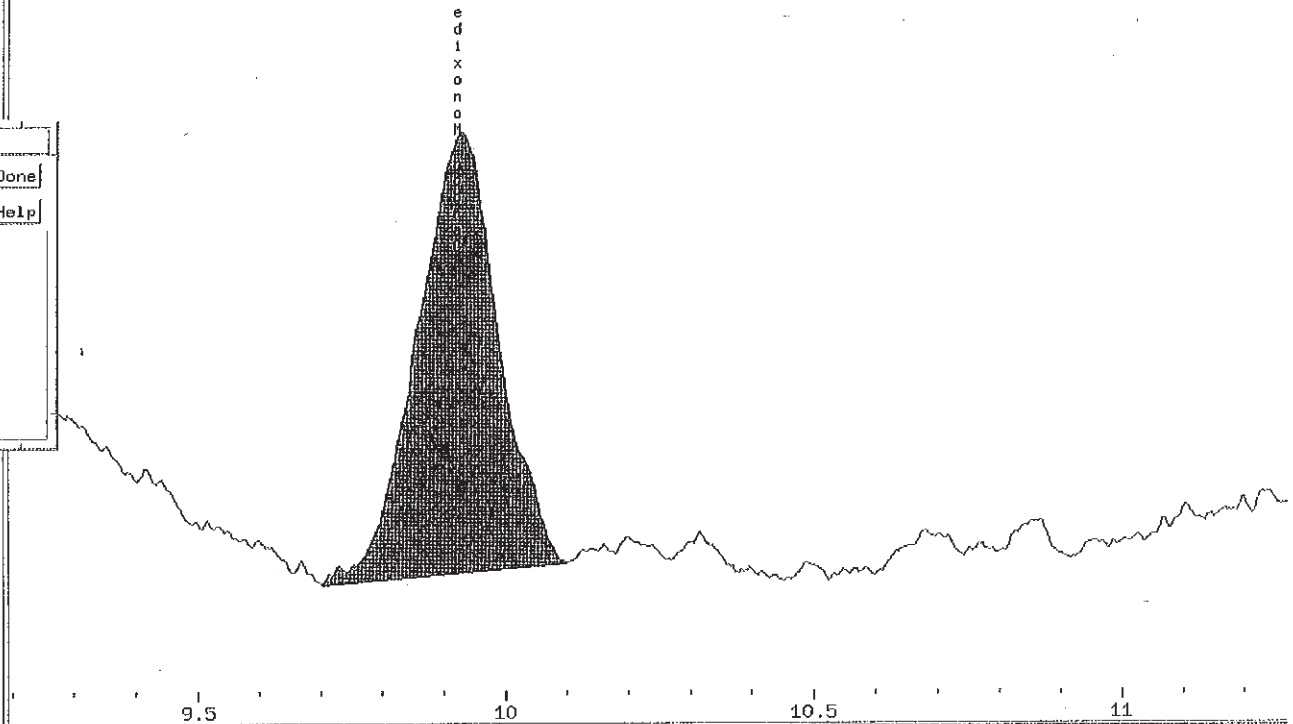
Area: [2449459]

Help

Height: [53464]

- Snap to Data
- Snap to Int Marks
- Overlap Peaks
- Assign Baseline
- Split Peak

- 9041704b.d
- 9041705b.d
- 9041706b.d
- 9041707b.d
- 9041708b.d
- 9041709b.d
- 9041710b.d
- 9041711b.d
- 9041714b.d
- 9041715b.d
- 9041716b.d
- 9041717b.d
- 9041718b.d
- 9041719b.d
- 9041720b.d



Hit# RT(min) Response Amount Conc Ratio Flags Report:

1 9.926 2449459 0.00864 0.00864 100 aH

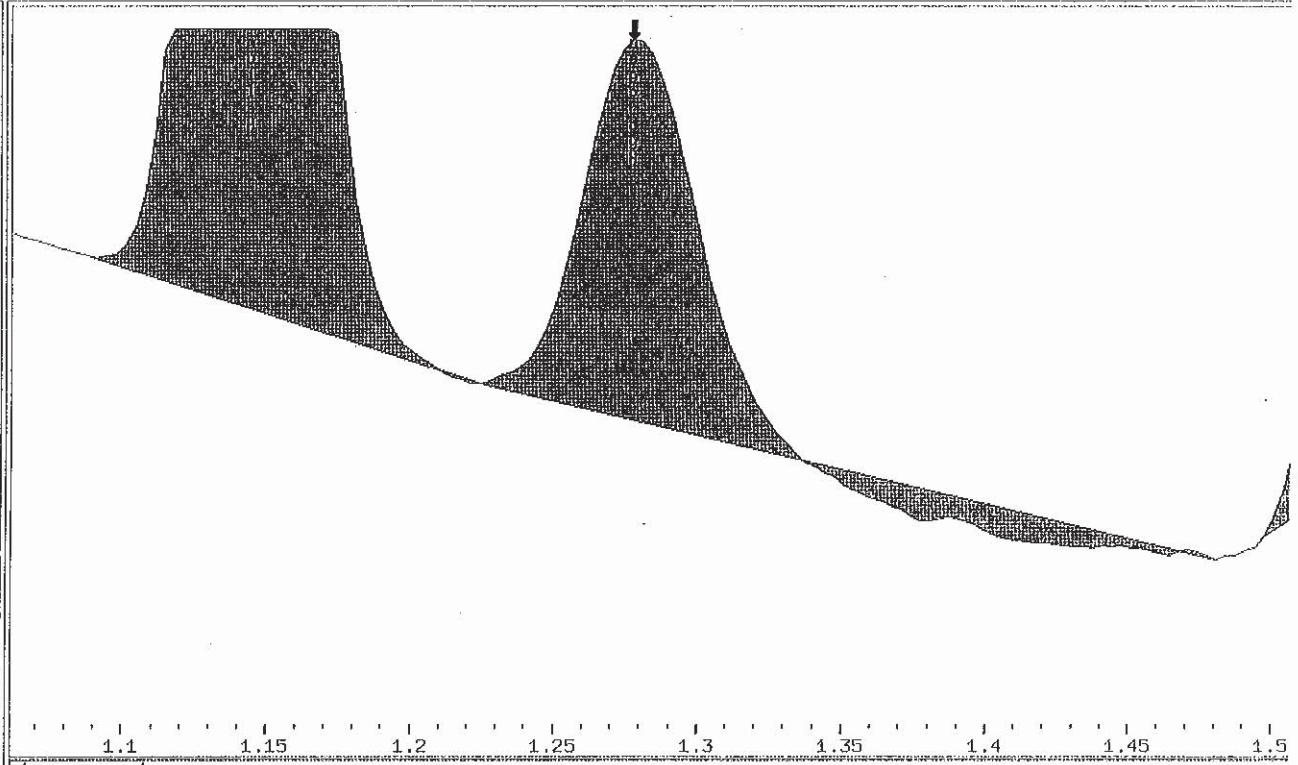
- Mark Carbon Monoxide Undetected.

After

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

Jm
4/19/10
Mr
4/19/10

- + 1 Helium
- + 2 Hydrogen



- 9041707.d
- 9041707b.d
- 9041707ba.d
- 9041708.d
- 9041708b.d
- 9041709.d
- 9041709b.d
- 9041710.d
- 9041710b.d
- 9041711.d
- 9041711b.d
- 9041712.d
- 9041712b.d
- 9041713.d
- 9041713b.d
- 9041714.d
- 9041714b.d
- 9041715.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	1.278	825656	0.00817	0.00817	100	a	
- Mark Hydrogen Undetected.							

Before
gm
4/19/10

Sample: 1830-29 Type: CALIB_1 Inj.Date: 17-APR-2010 13:45 Col: 1 mol\porapak

- + 1 Helium
- + 2 Hydrogen

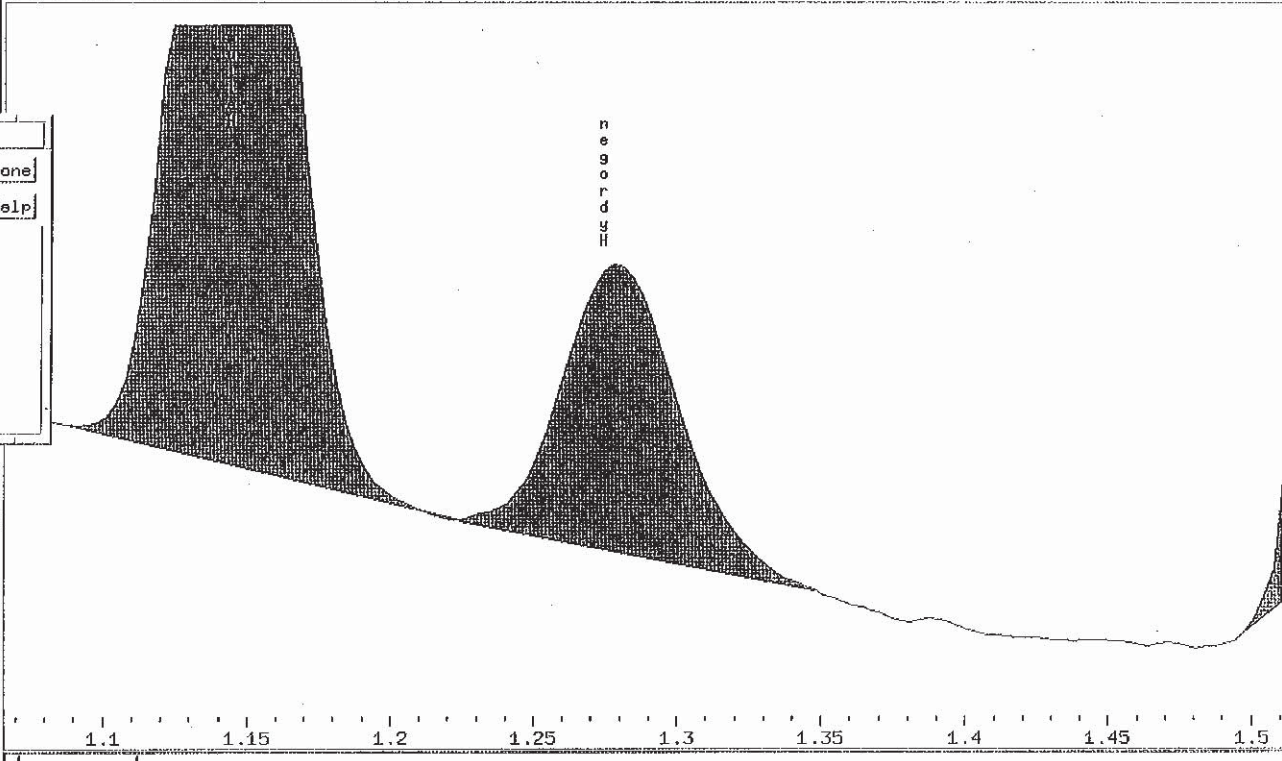
Manual Int

Time: | 1.278 | Done

Area: | 986697 | Help

Height: | 69204

- Snap to Data
- Snap to Int Marks
- Overlap Peaks
- Assign Baseline
- Split Peak



9041714b.d

Hit#	RT (min)	Response	Amount	Conc	Ratio	Flags	Report:
1	1.278	986697	0.00939	0.00939	100	all	

- Mark Hydrogen Undetected.

After

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

gm
4/19/10

Mr
4/19/10

Air Toxics Ltd.

Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041712b.d
Lab Smp Id: 1476-1477 Ngas Client Smp ID: LCS
Inj Date : 17-APR-2010 12:56
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml,;1476-1477 Ngas;LCS;
Misc Info : LCS
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:55 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 13:45 Cal File: 9041714b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas-H2He.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

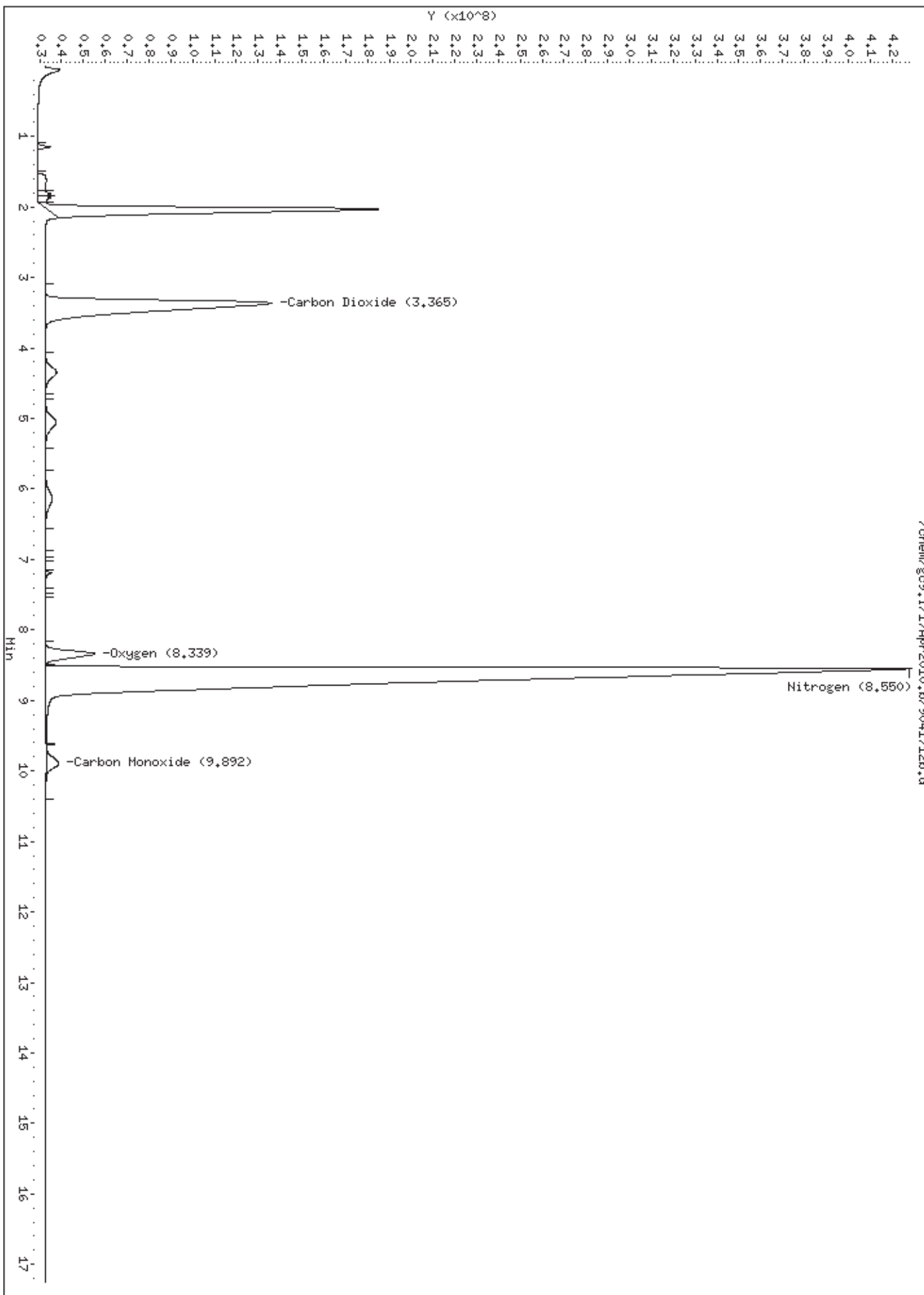
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (%)	FINAL (%)
3 Carbon Dioxide	3.365	3.376	-0.011	5205049331	9.45627	9.46
9 Oxygen	8.339	8.340	-0.001	766371728	2.35156	2.35
10 Nitrogen	8.550	8.555	-0.005	24090602022	66.0214	66.0
12 Carbon Monoxide	9.892	9.902	-0.010	310059257	1.09398	1.09

Air Toxics Ltd.

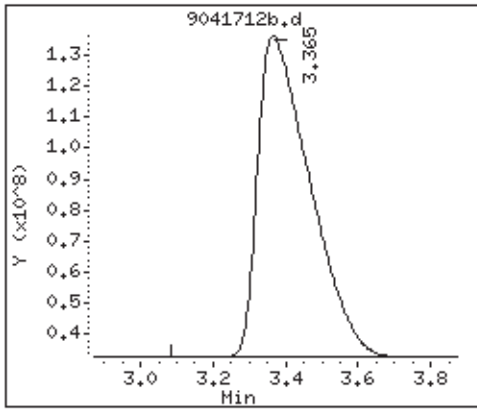
RECOVERY REPORT

Client Name: Client SDG: 17Apr2010
Sample Matrix: GAS Fraction: Atm Gas
Lab Smp Id: 1476-1477 Ngas Client Smp ID: LCS
Level: LOW Operator: ly
Data Type: GC DATA SampleType: LCS
SpikeList File: 1476-1477-He.spk Quant Type: ESTD
Sublist File: ngas-H2He.sub
Method File: /chem/gc9.i/17Apr2010.b/910C0417.m
Misc Info: LCS

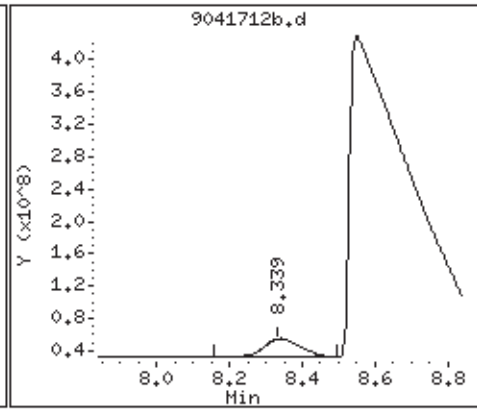
SPIKE COMPOUND	CONC ADDED %	CONC RECOVERED %	% RECOVERED	LIMITS
3 Carbon Dioxide	9.98	9.46	94.75	85-115
9 Oxygen	2.49	2.35	94.44	85-115
10 Nitrogen	70.5	66.0	93.65	85-115
12 Carbon Monoxide	1.00	1.09	109.40	85-115



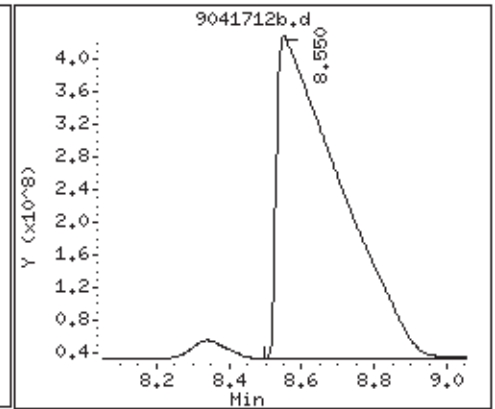
3 Carbon Dioxide



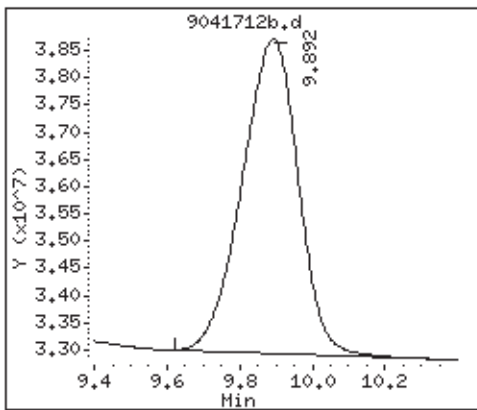
9 Oxygen



10 Nitrogen



12 Carbon Monoxide



Air Toxics Ltd.

Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041721b.d
Lab Smp Id: 1476-1477 Client Smp ID: LCS
Inj Date : 17-APR-2010 16:32
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml;1476-1477;LCS;
Misc Info : He
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:55 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 13:45 Cal File: 9041714b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: he.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

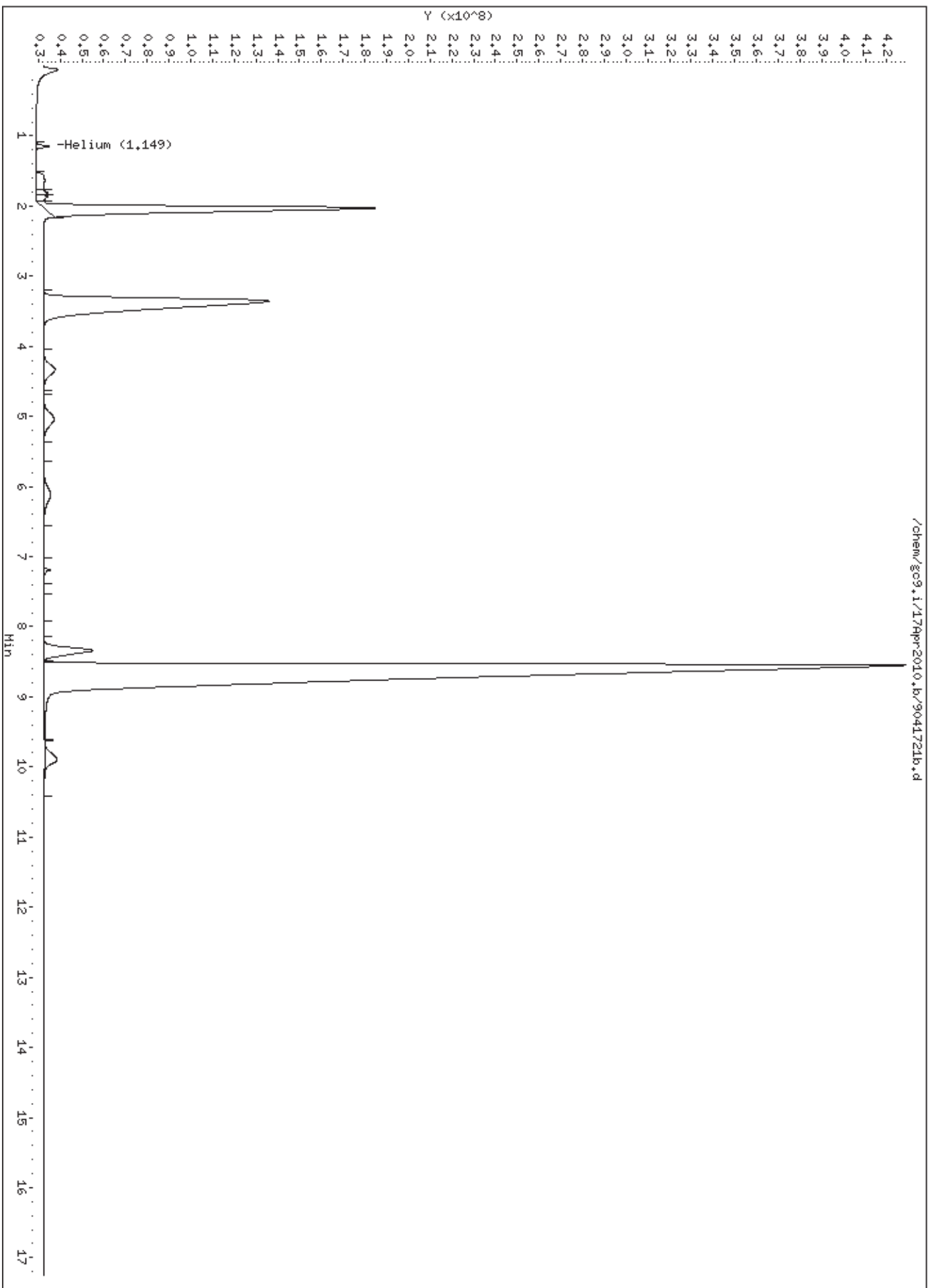
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (%)	FINAL (%)
=====	==	=====	=====	=====	=====	=====
1 Helium	1.149	1.149	0.000	65754918	0.98345	0.983

Air Toxics Ltd.

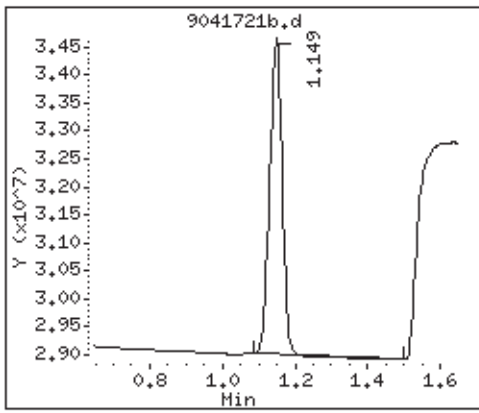
RECOVERY REPORT

Client Name: Client SDG: 17Apr2010
Sample Matrix: GAS Fraction: Atm Gas
Lab Smp Id: 1476-1477 Client Smp ID: LCS
Level: LOW Operator: ly
Data Type: GC DATA SampleType: LCS
SpikeList File: 0.998%He.spk Quant Type: ESTD
Sublist File: he.sub
Method File: /chem/gc9.i/17Apr2010.b/910C0417.m
Misc Info: He

SPIKE COMPOUND	CONC ADDED %	CONC RECOVERED %	% RECOVERED	LIMITS
1 Helium	0.998	0.983	98.54	85-115



1 Helium



Air Toxics Ltd.

Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041722b.d
Lab Smp Id: 1476-1450 Client Smp ID: LCS
Inj Date : 17-APR-2010 16:56
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml;1476-1450;LCS;
Misc Info : H2
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:55 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 13:45 Cal File: 9041714b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: h2.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

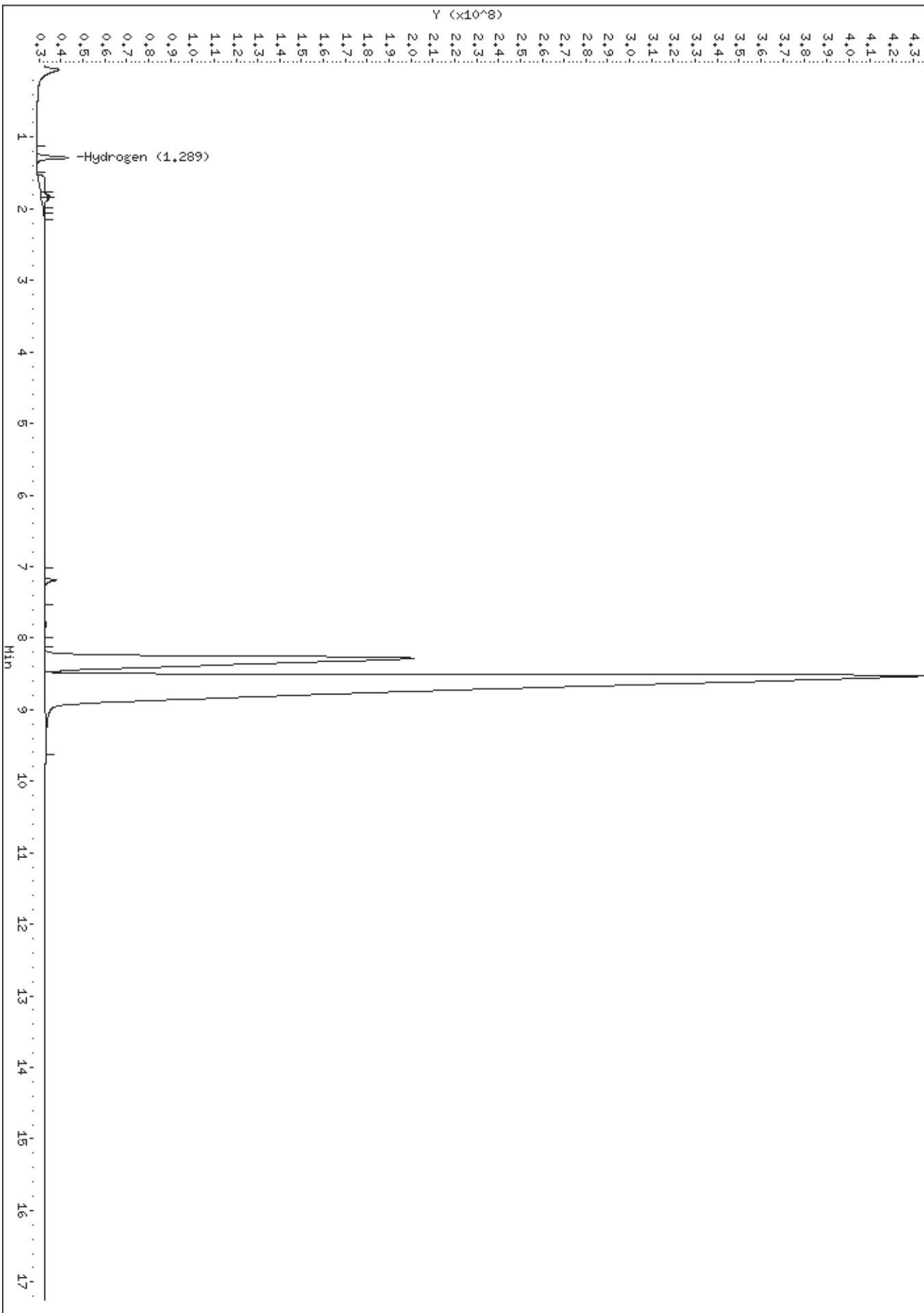
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (%)	FINAL (%)
=====	==	=====	=====	=====	=====	
2 Hydrogen	1.289	1.288	0.001	217194805	2.06634	2.07

Air Toxics Ltd.

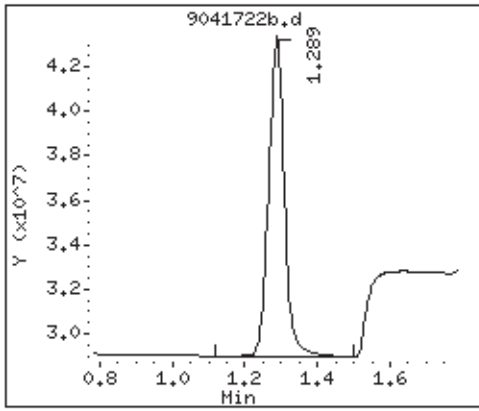
RECOVERY REPORT

Client Name: Client SDG: 17Apr2010
Sample Matrix: GAS Fraction: Atm Gas
Lab Smp Id: 1476-1450 Client Smp ID: LCS
Level: LOW Operator: ly
Data Type: GC DATA SampleType: LCS
SpikeList File: 2.0%H2.spk Quant Type: ESTD
Sublist File: h2.sub
Method File: /chem/gc9.i/17Apr2010.b/910C0417.m
Misc Info: H2

SPIKE COMPOUND	CONC ADDED %	CONC RECOVERED %	% RECOVERED	LIMITS
2 Hydrogen	2.00	2.07	103.52	85-115



2 Hydrogen



Air Toxics Ltd.

Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041714b.d
Lab Smp Id: 1830-29 Client Smp ID: Level-1
Inj Date : 17-APR-2010 13:45
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml, Bag; 1830-29; Level-1;
Misc Info : H2He
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:48 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 13:45 Cal File: 9041714b.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: heh2.sub
Target Version: 3.50
Processing Host: eeyore

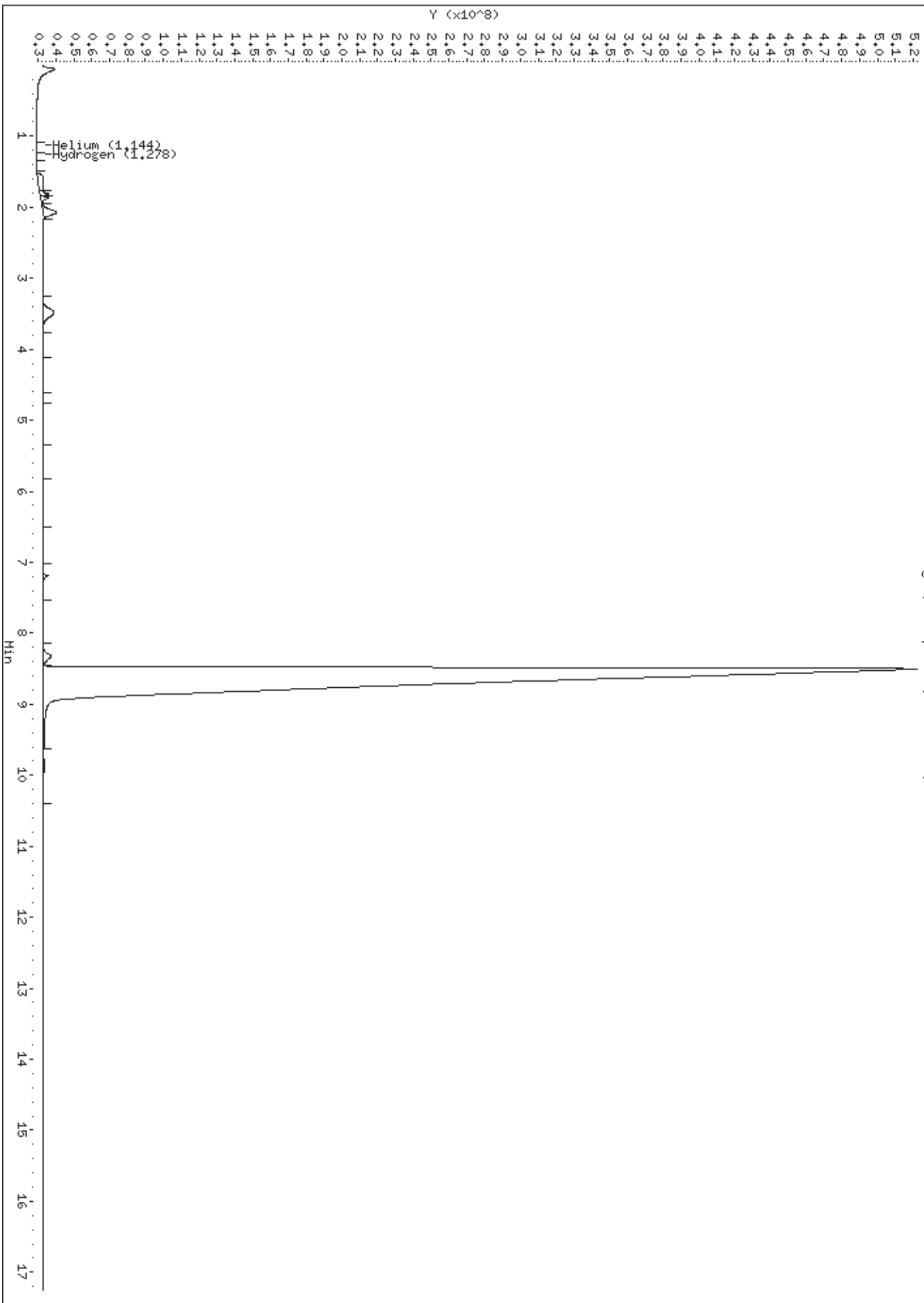
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
1 Helium	1.144	1.149	-0.005	3347395	0.04935	0.0501
2 Hydrogen	1.278	1.288	-0.010	986697	0.01000	0.00939 (aM)

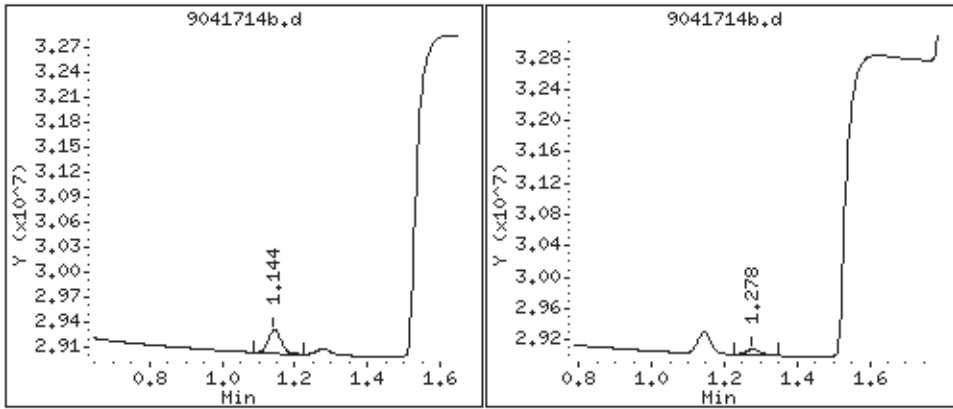
QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.



1 Helium

2 Hydrogen



Air Toxics Ltd.

Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041704b.d
Lab Smp Id: 1830-26 Client Smp ID: Level-1
Inj Date : 17-APR-2010 09:26
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml,94301;1830-26;Level-1;
Misc Info : Level-1
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:43 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 13:45 Cal File: 9041714b.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas-H2He.sub
Target Version: 3.50
Processing Host: eeyore

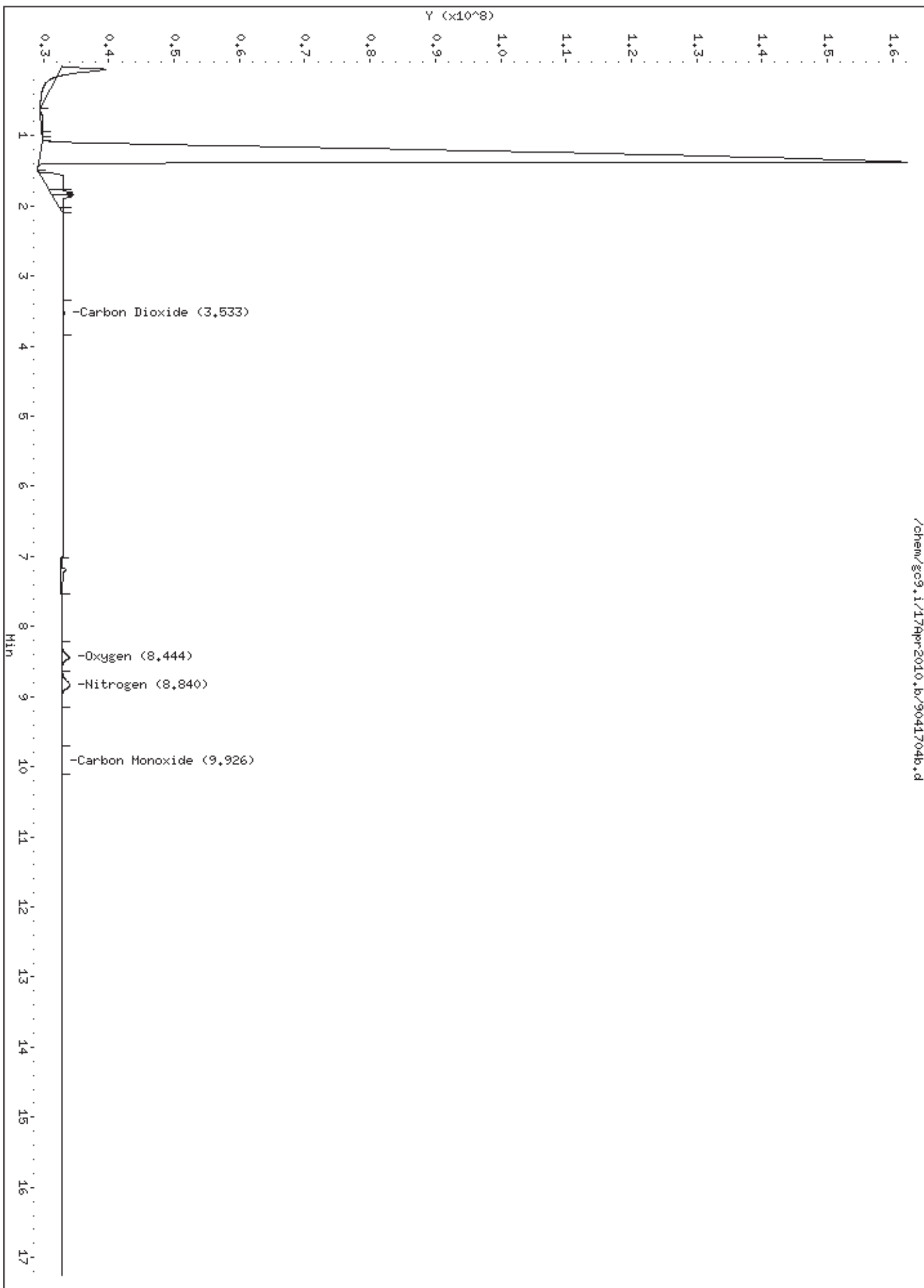
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

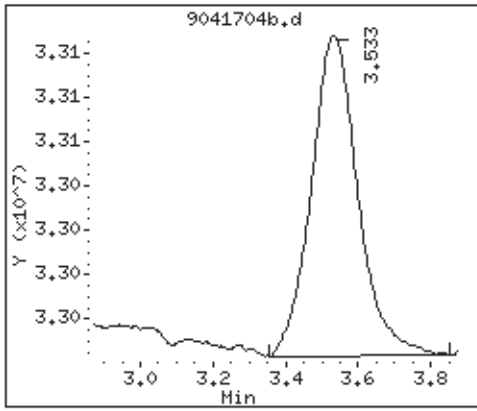
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
3 Carbon Dioxide	3.533	3.376	0.157	6503827	0.00988	0.0118
9 Oxygen	8.444	8.340	0.104	31723482	0.09860	0.0973(a)
10 Nitrogen	8.840	8.555	0.285	45342607	0.09900	0.124
12 Carbon Monoxide	9.926	9.902	0.024	2449459	0.00983	0.00864(aM)

QC Flag Legend

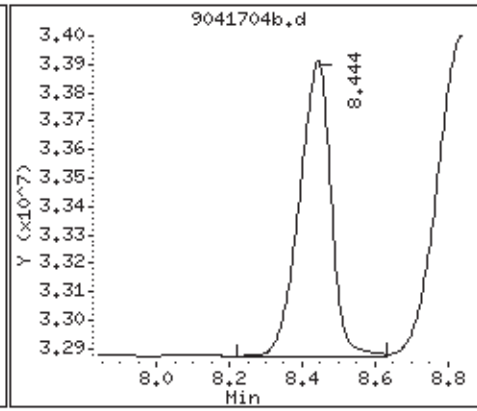
- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.



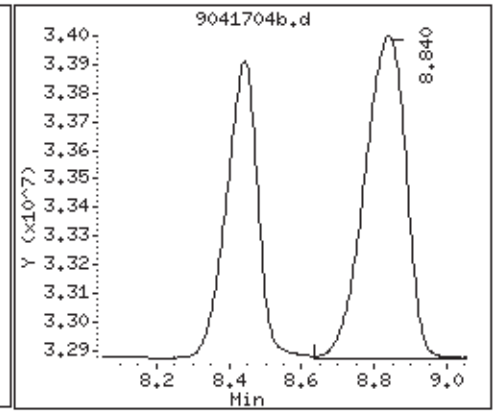
3 Carbon Dioxide



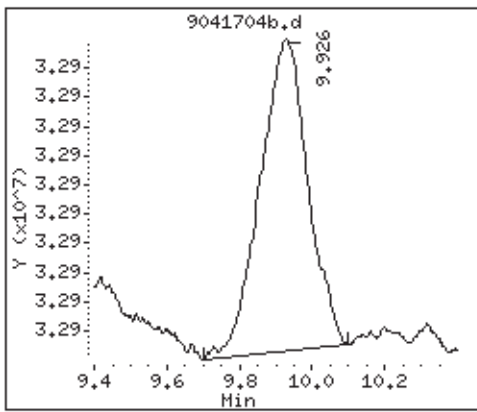
9 Oxygen



10 Nitrogen



12 Carbon Monoxide



Air Toxics Ltd.

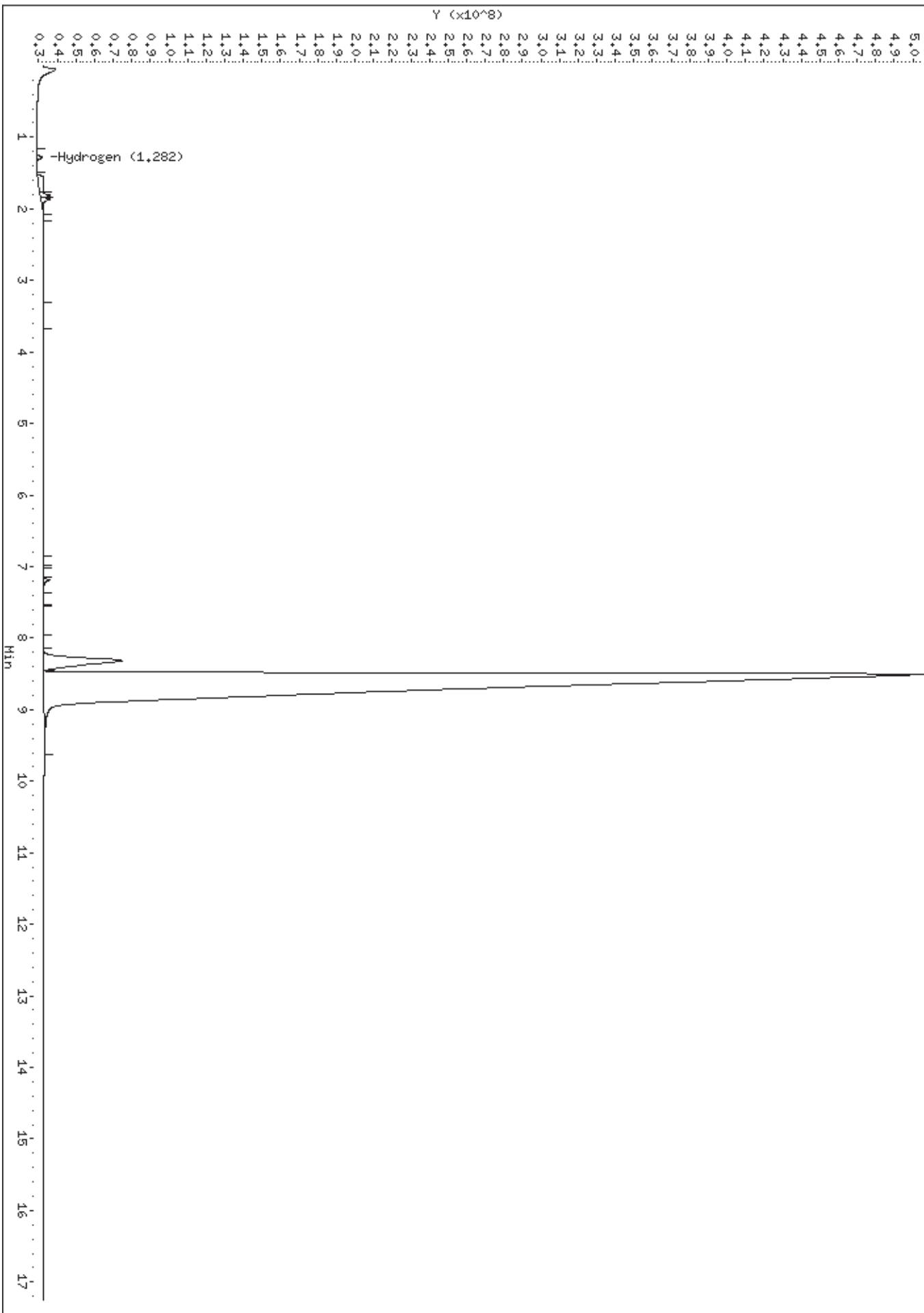
Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041716b.d
Lab Smp Id: 1476-977 H2 Client Smp ID: Level-2
Inj Date : 17-APR-2010 14:30
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml(10:50);1476-977 H2;Level-2;
Misc Info : H2
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:44 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 14:30 Cal File: 9041716b.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: h2.sub
Target Version: 3.50
Processing Host: eeyore

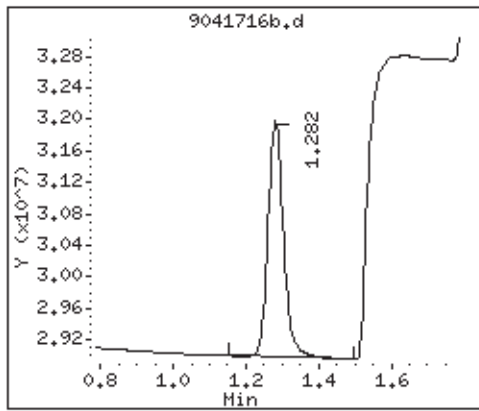
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
2 Hydrogen	1.282	1.288	-0.006	44458302	0.40000	0.440



2 Hydrogen



Air Toxics Ltd.

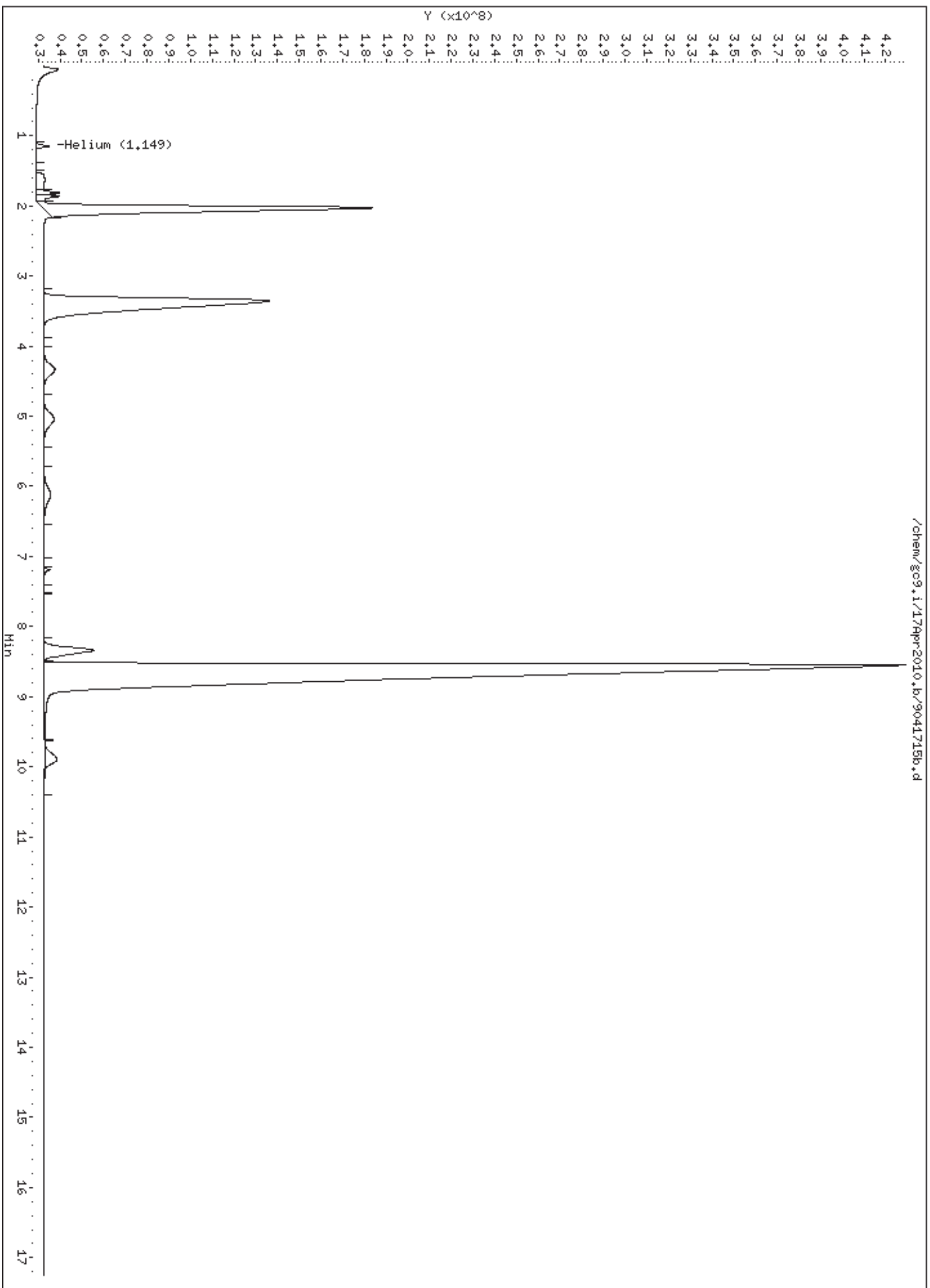
Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041715b.d
Lab Smp Id: 1544-365B Client Smp ID: Level-2
Inj Date : 17-APR-2010 14:07
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml,34219;1544-365B;Level-2;
Misc Info : He
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:44 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 14:30 Cal File: 9041716b.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: he.sub
Target Version: 3.50
Processing Host: eeyore

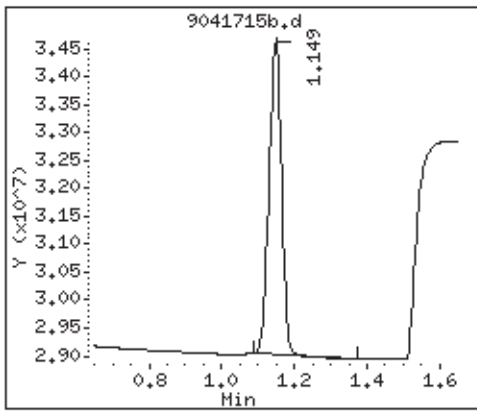
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
1 Helium	1.149	1.149	0.000	67048029	0.98700	1.00



1 Helium



Air Toxics Ltd.

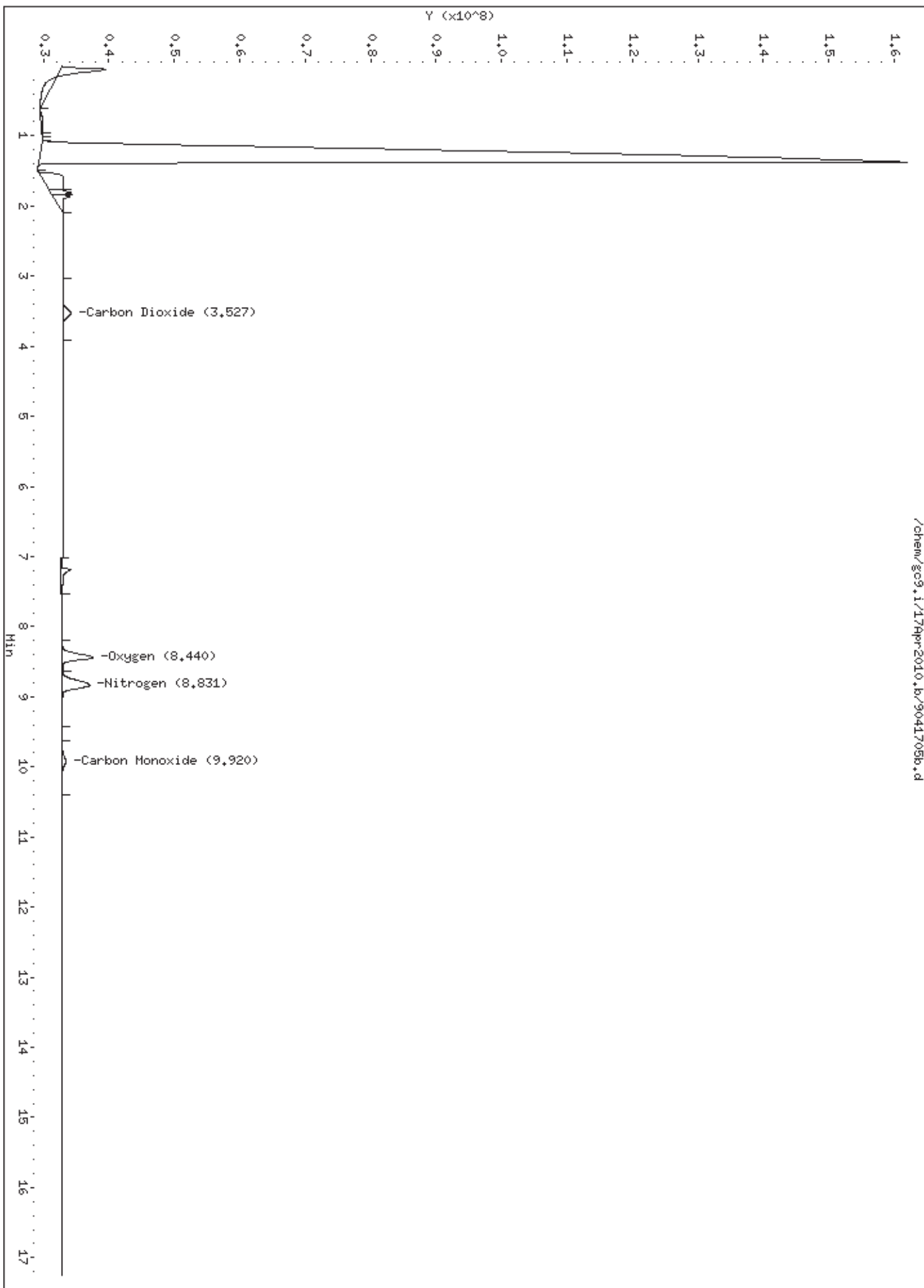
Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041705b.d
Lab Smp Id: 1830-25 Client Smp ID: Level-2
Inj Date : 17-APR-2010 09:48
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml,14867;1830-25;Level-2;
Misc Info : Level-2
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:43 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 14:30 Cal File: 9041716b.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas-H2He.sub
Target Version: 3.50
Processing Host: eeyore

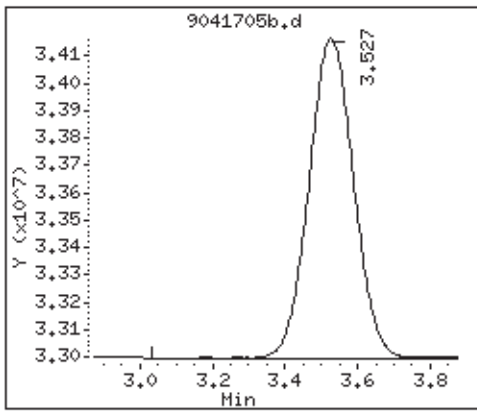
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

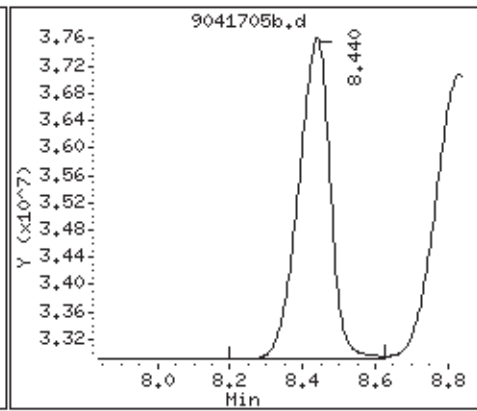
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
3 Carbon Dioxide	3.527	3.376	0.151	50263423	0.09880	0.0913
9 Oxygen	8.440	8.340	0.100	142795018	0.49310	0.438
10 Nitrogen	8.831	8.555	0.276	167233543	0.49500	0.458
12 Carbon Monoxide	9.920	9.902	0.018	25878143	0.10240	0.0913



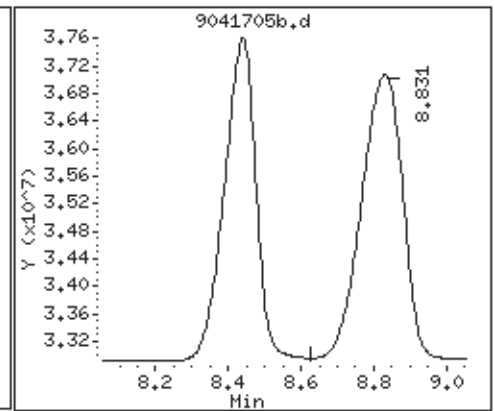
3 Carbon Dioxide



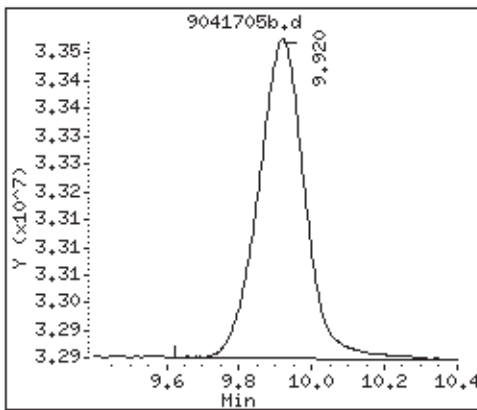
9 Oxygen



10 Nitrogen



12 Carbon Monoxide



Air Toxics Ltd.

Modified ASTM D-1945

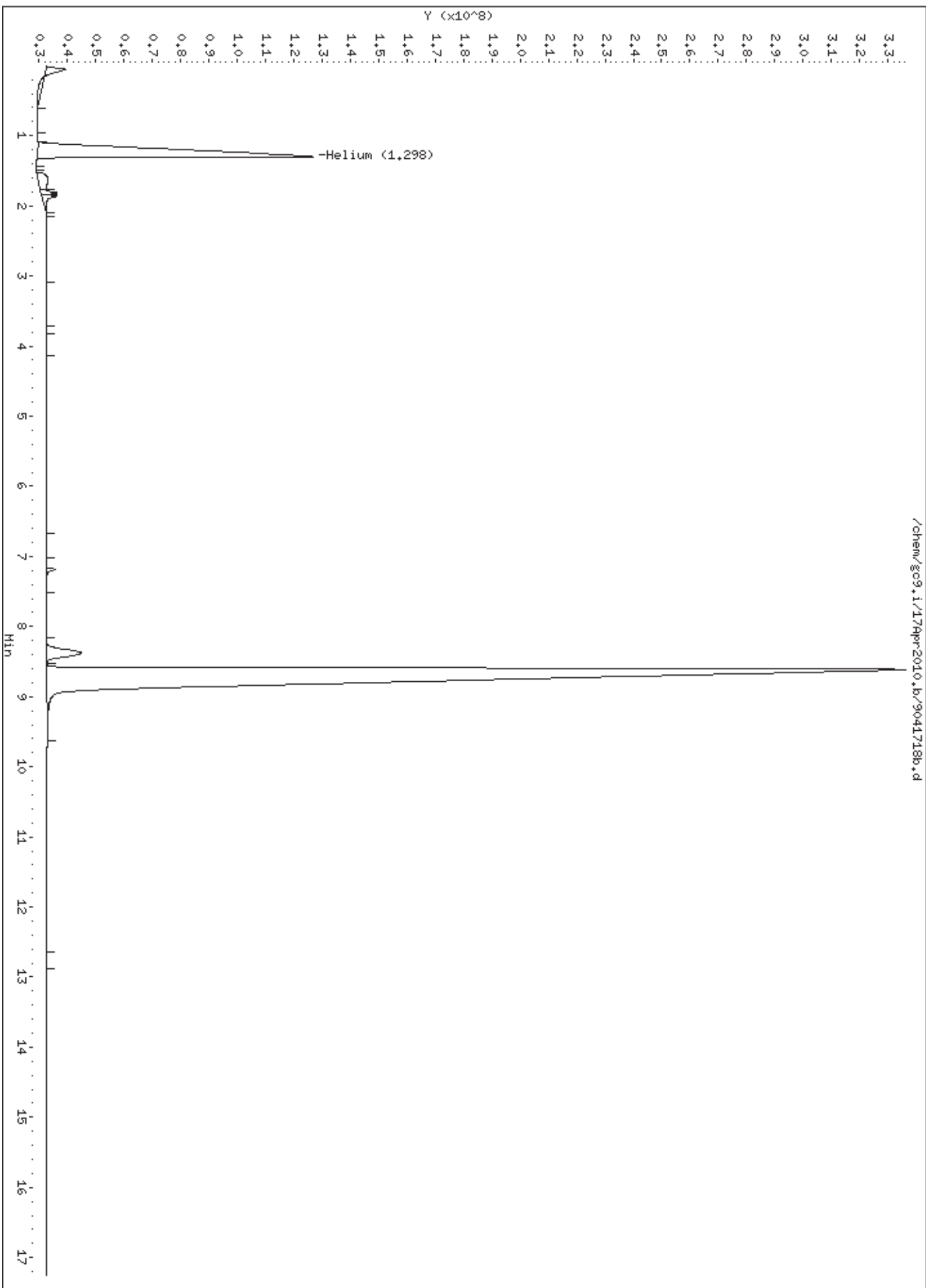
Data file : /chem/gc9.i/17Apr2010.b/9041718b.d
Lab Smp Id: 1476-1670 Client Smp ID: Level-4
Inj Date : 17-APR-2010 15:17
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml(25:50);1476-1670;Level-4;
Misc Info : He
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:44 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 15:17 Cal File: 9041718b.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: he.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

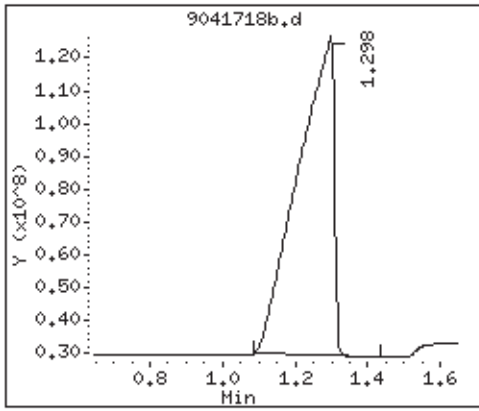
Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	
1 Helium	1.298	1.149	0.149	3355520328	50.0000	50.2



1 Helium



Air Toxics Ltd.

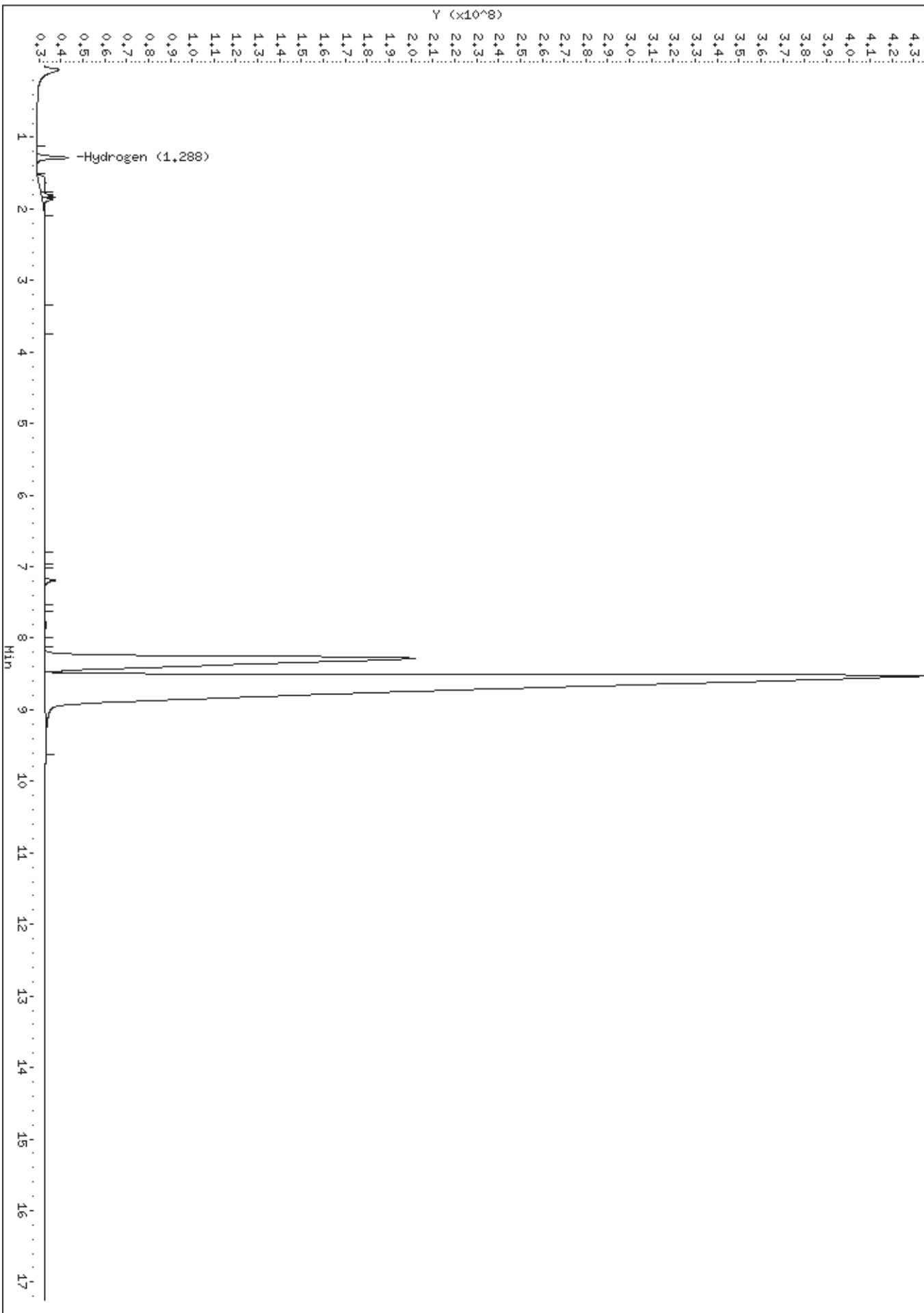
Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041717b.d
Lab Smp Id: 1476-977 H2 Client Smp ID: Level-3
Inj Date : 17-APR-2010 14:53
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml;1476-977 H2;Level-3;
Misc Info : H2
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:44 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 15:17 Cal File: 9041718b.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: h2.sub
Target Version: 3.50
Processing Host: eeyore

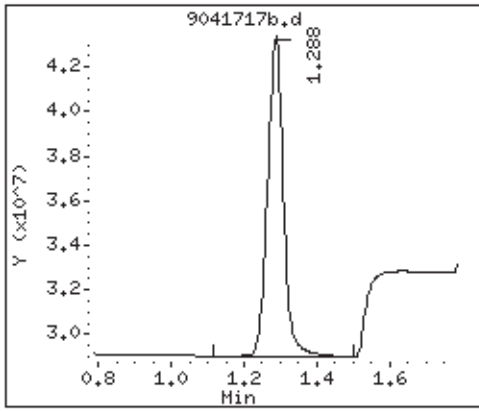
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
2 Hydrogen	1.288	1.288	0.000	217281925	2.00000	2.15



2 Hydrogen



Air Toxics Ltd.

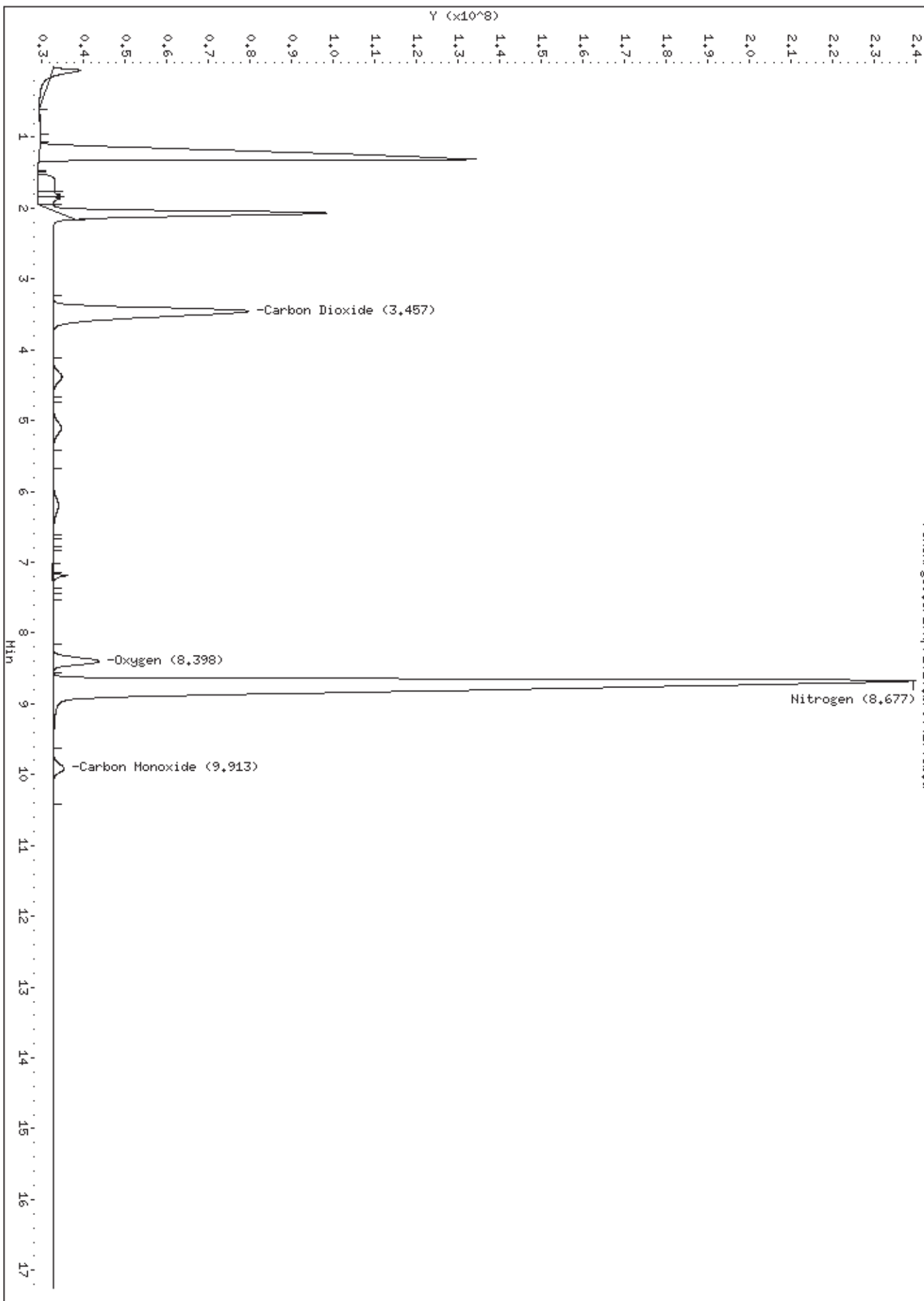
Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041706b.d
Lab Smp Id: 1544-365B Client Smp ID: Level-3
Inj Date : 17-APR-2010 10:12
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml,34219;1544-365B;Level-3;
Misc Info : Level-3
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:43 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 15:17 Cal File: 9041718b.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas-H2He.sub
Target Version: 3.50
Processing Host: eeyore

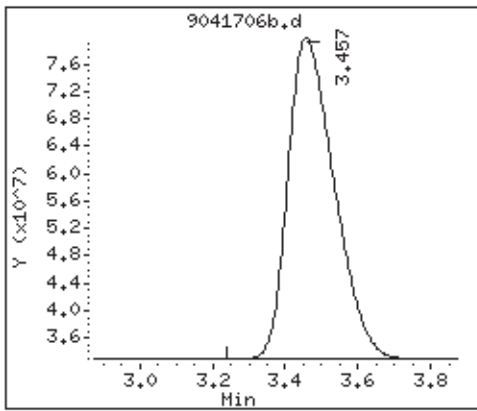
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

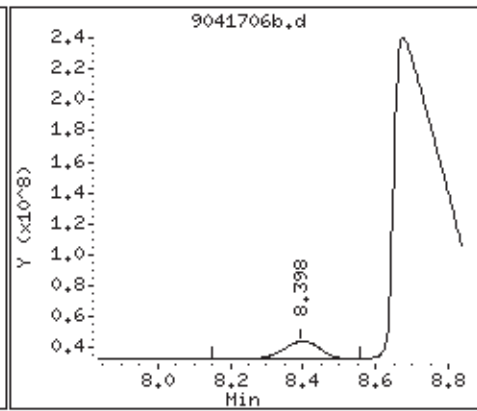
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
3 Carbon Dioxide	3.457	3.376	0.081	2102189021	4.00000	3.82
9 Oxygen	8.398	8.340	0.058	386868260	1.00000	1.19
10 Nitrogen	8.677	8.555	0.122	9872464302	28.2100	27.0
12 Carbon Monoxide	9.913	9.902	0.011	117140988	0.40400	0.413



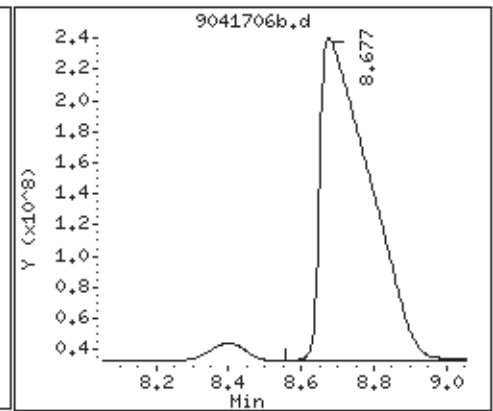
3 Carbon Dioxide



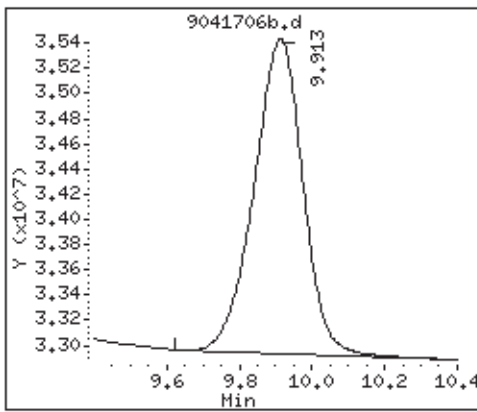
9 Oxygen



10 Nitrogen



12 Carbon Monoxide



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Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041720b.d
Lab Smp Id: 1476-1671 Client Smp ID: Level-4
Inj Date : 17-APR-2010 16:10
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml;1476-1671;Level-4;
Misc Info : H2
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:44 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 16:10 Cal File: 9041720b.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: h2.sub
Target Version: 3.50
Processing Host: eeyore

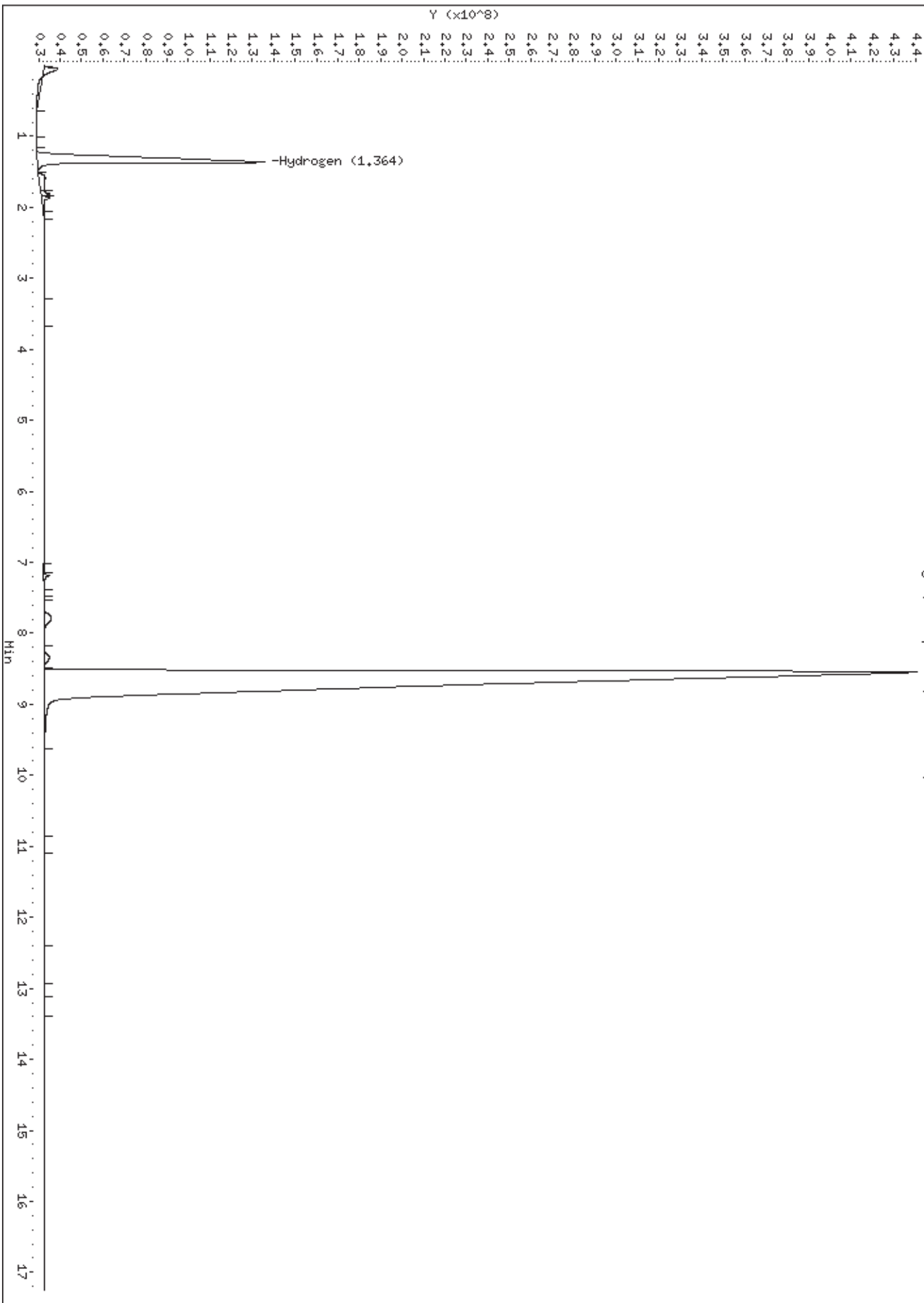
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

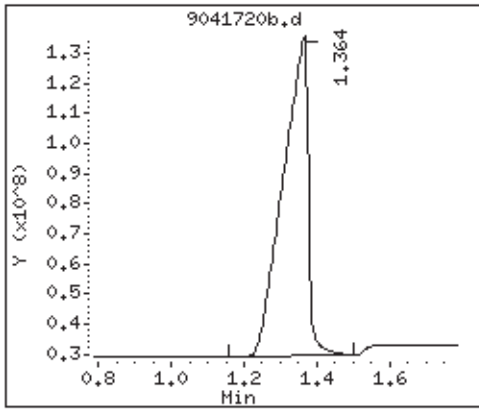
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
2 Hydrogen	1.364	1.288	0.076	2549654950	25.0000	25.2(A)

QC Flag Legend

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



2 Hydrogen



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Modified ASTM D-1945

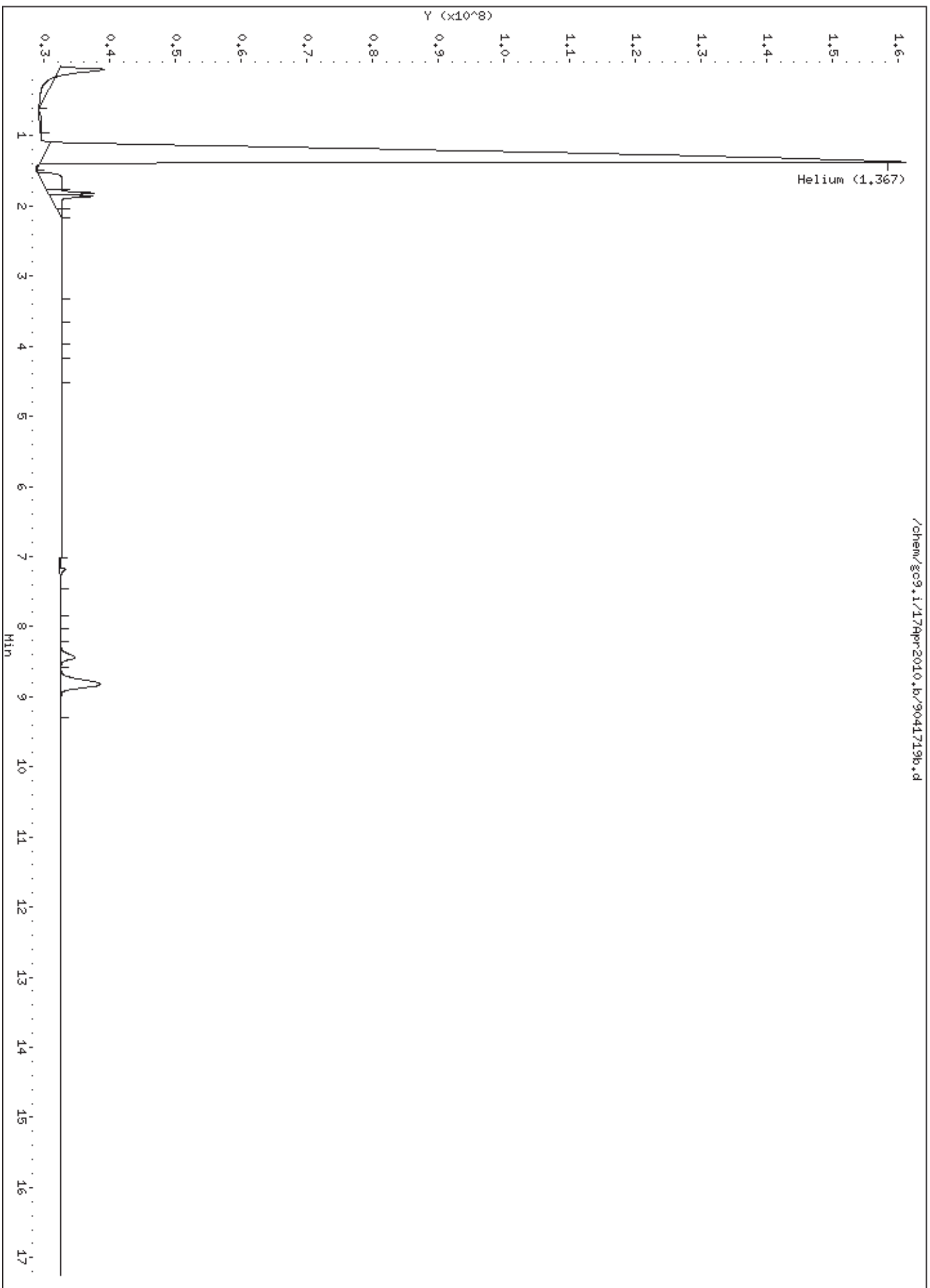
Data file : /chem/gc9.i/17Apr2010.b/9041719b.d
Lab Smp Id: 1476-1670 Client Smp ID: Level-4
Inj Date : 17-APR-2010 15:47
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml;1476-1670;Level-4;
Misc Info : He
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:44 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 16:10 Cal File: 9041720b.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: he.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

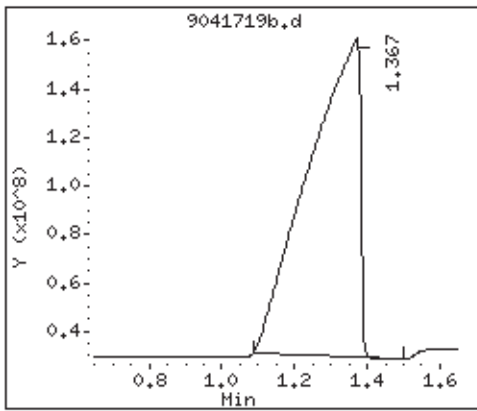
Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
1 Helium	1.367	1.149	0.218	6457384801	100.000	96.6



1 Helium



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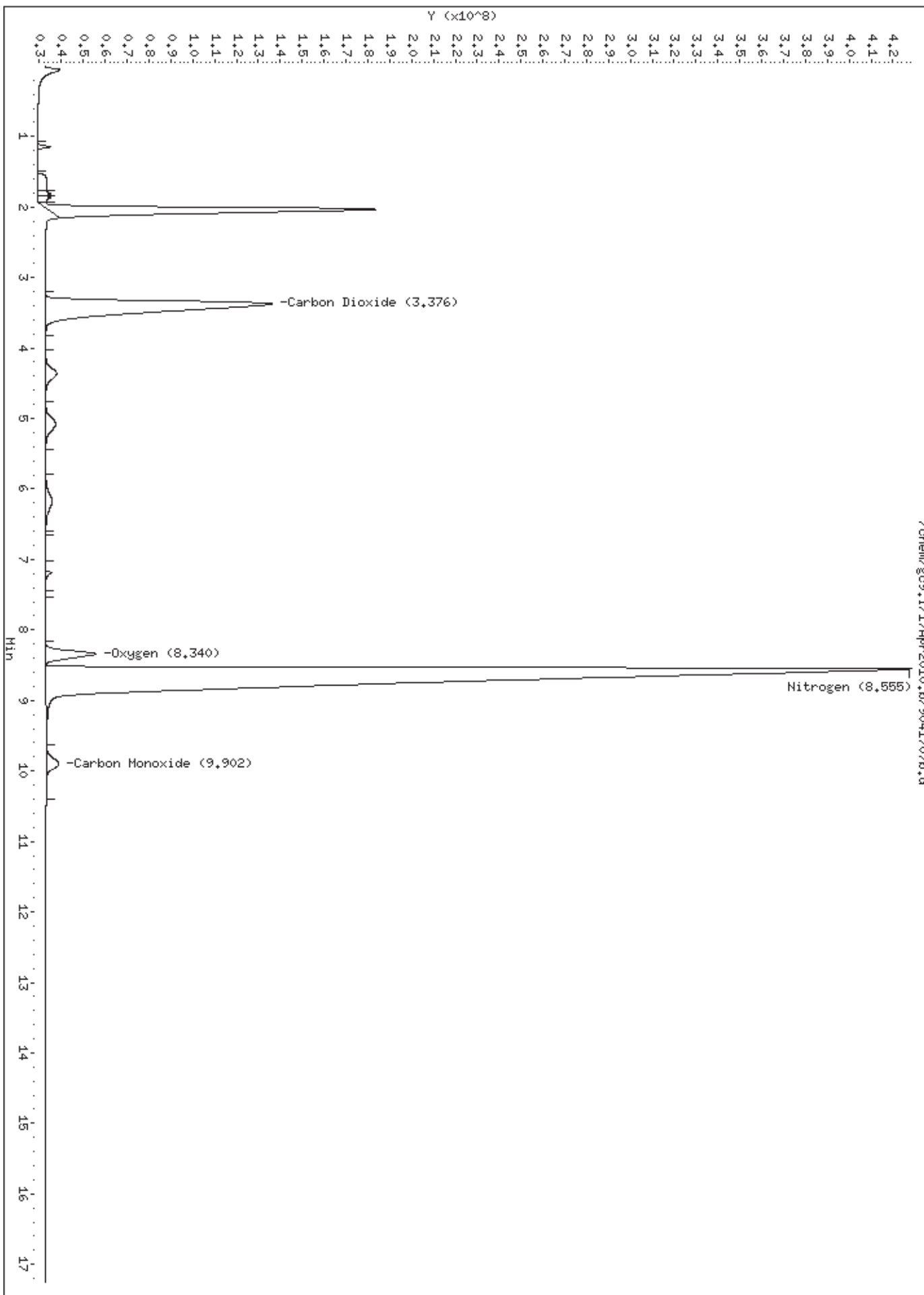
Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041707b.d
Lab Smp Id: 1544-365B Client Smp ID: Level-4
Inj Date : 17-APR-2010 10:34
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml,34219;1544-365B;Level-4;
Misc Info : Level-4
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:43 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 16:10 Cal File: 9041720b.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas-H2He.sub
Target Version: 3.50
Processing Host: eeyore

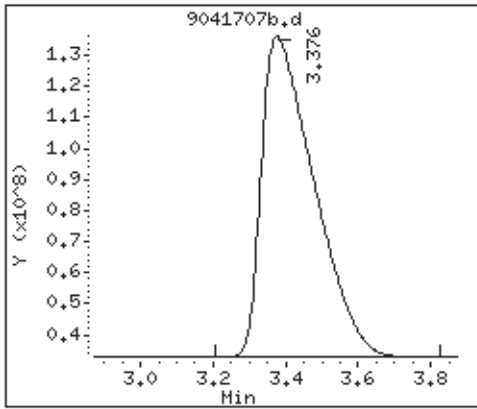
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

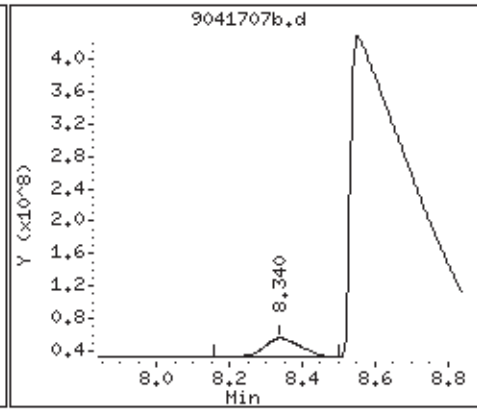
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
3 Carbon Dioxide	3.376	3.376	0.000	5191703107	10.0000	9.43
9 Oxygen	8.340	8.340	0.000	779481410	2.50000	2.39
10 Nitrogen	8.555	8.555	0.000	24051474674	70.5240	65.9
12 Carbon Monoxide	9.902	9.902	0.000	310213791	1.01000	1.09



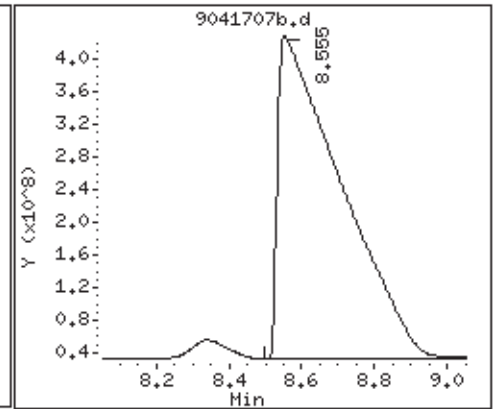
3 Carbon Dioxide



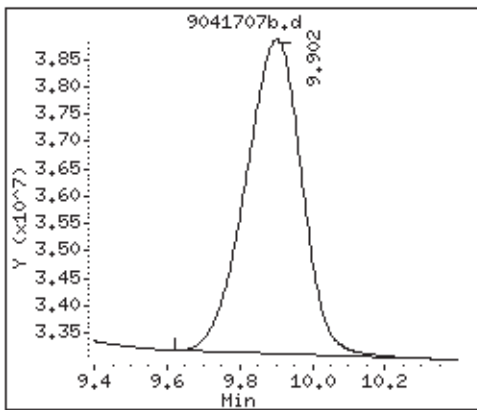
9 Oxygen



10 Nitrogen



12 Carbon Monoxide



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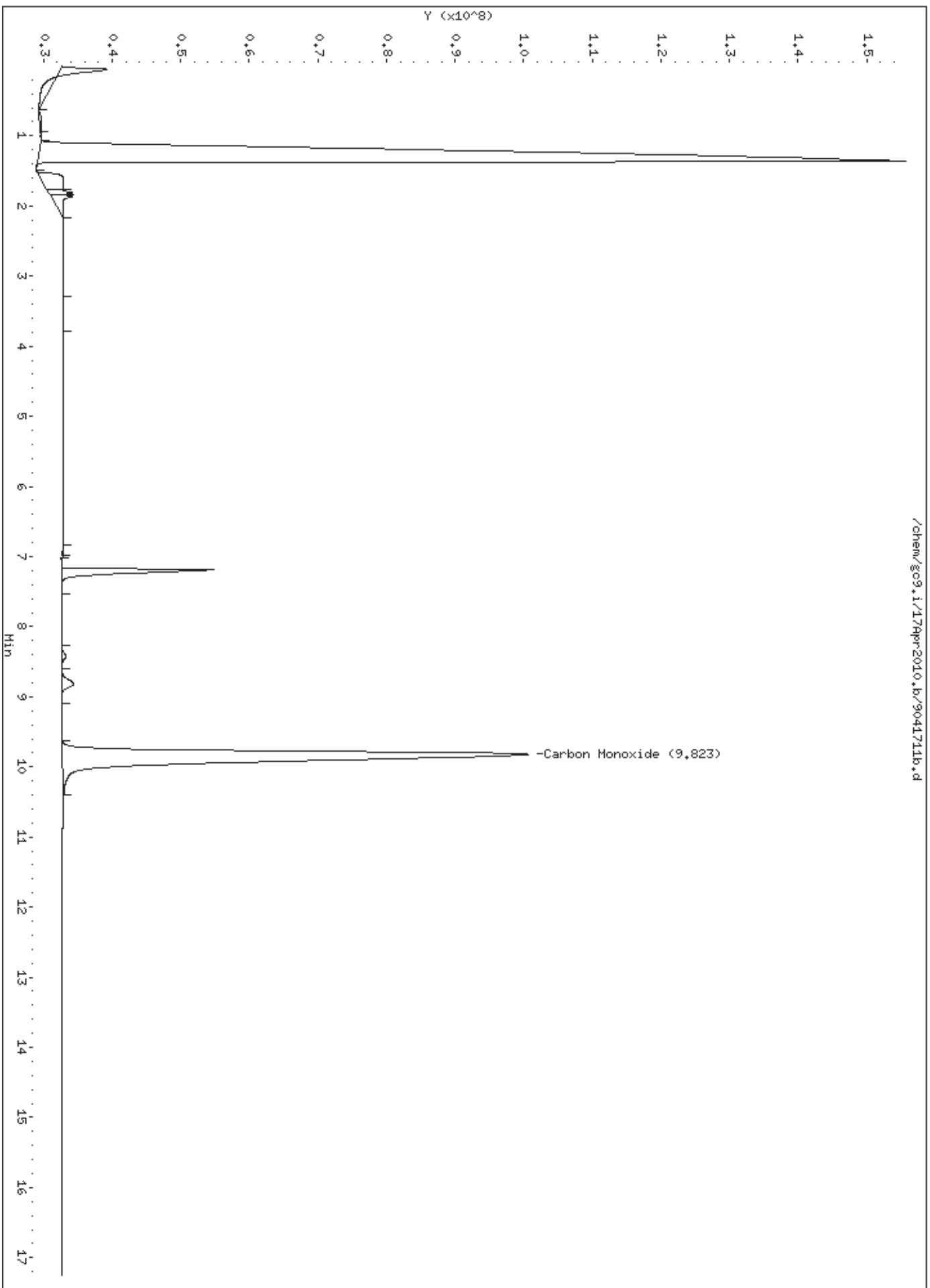
Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041711b.d
Lab Smp Id: 1476-599 Client Smp ID: Level-5
Inj Date : 17-APR-2010 12:33
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml(5:50),;1476-599;Level-5;
Misc Info : CO
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:43 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 12:33 Cal File: 9041711b.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: co.sub
Target Version: 3.50
Processing Host: eeyore

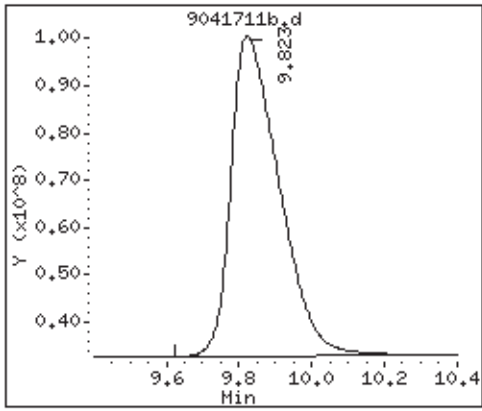
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
12 Carbon Monoxide	9.823	9.902	-0.079	3158919196	9.93000	11.1



12 Carbon Monoxide



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Modified ASTM D-1945

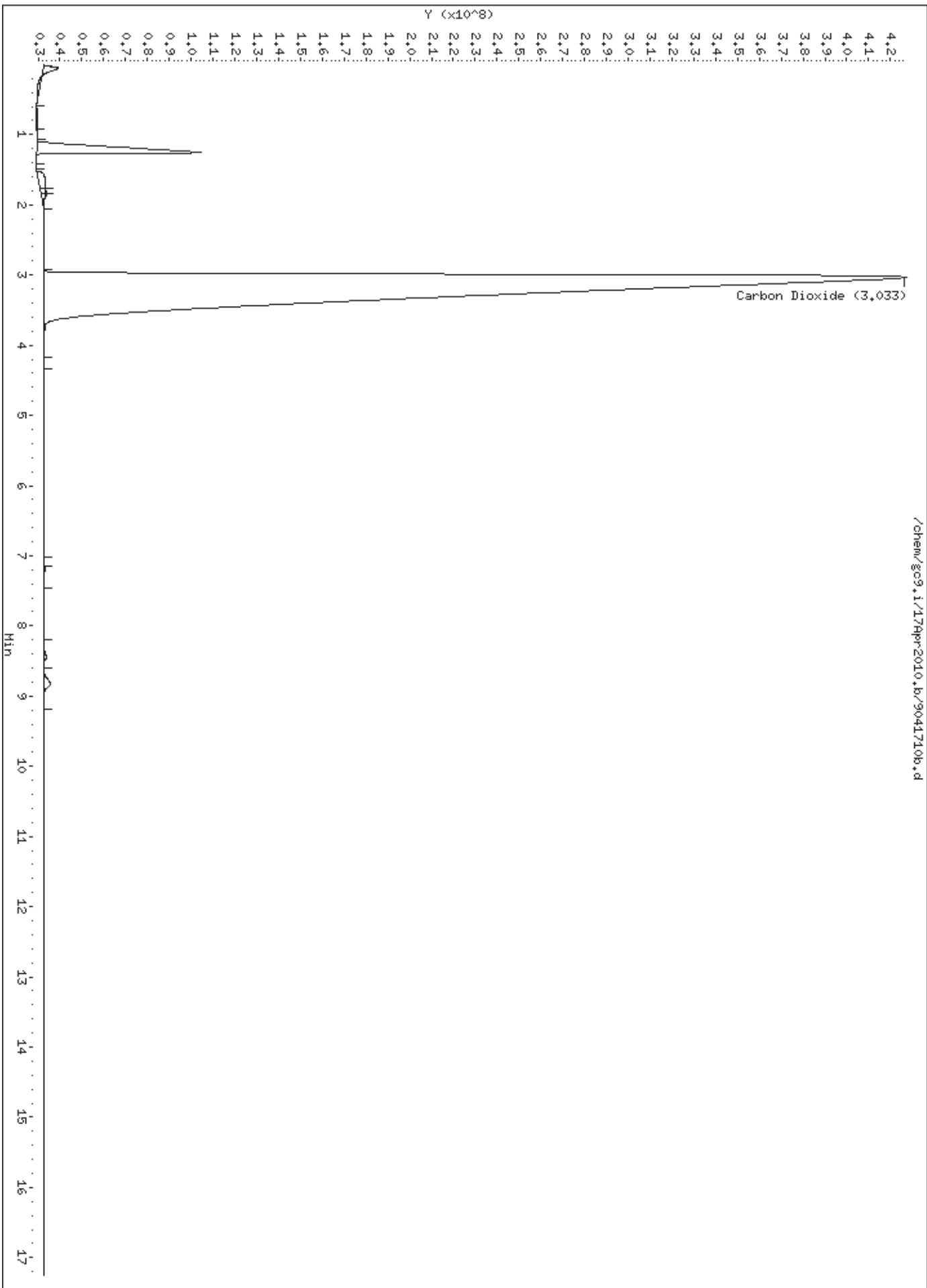
Data file : /chem/gc9.i/17Apr2010.b/9041710b.d
Lab Smp Id: 1476-971 Client Smp ID: Level-5
Inj Date : 17-APR-2010 12:10
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml(35:50),;1476-971;Level-5;
Misc Info : CO2
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:43 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 12:33 Cal File: 9041711b.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: co2.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

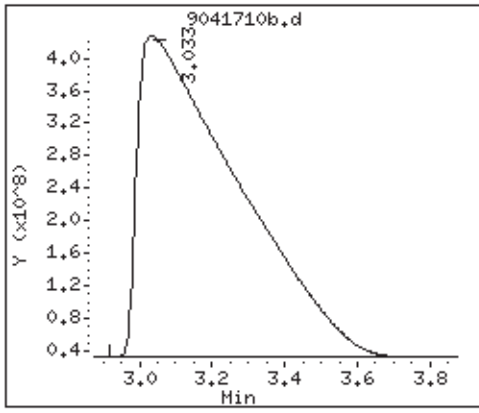
Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
3 Carbon Dioxide	3.033	3.376	-0.343	37716679096	69.7900	68.5



3 Carbon Dioxide



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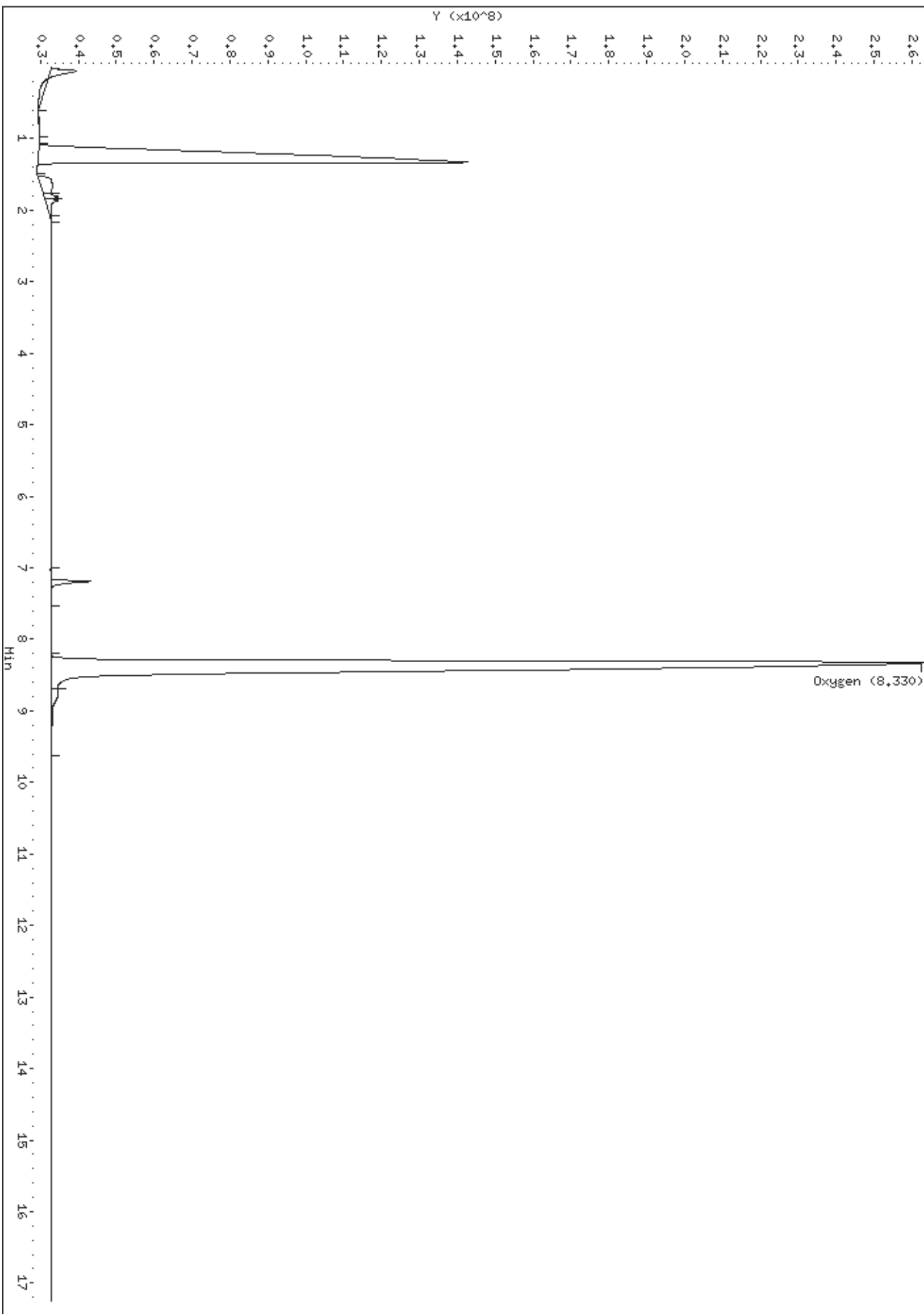
Modified ASTM D-1945

Data file : /chem/gc9.i/17Apr2010.b/9041709b.d
Lab Smp Id: 1476-750 Client Smp ID: Level-5
Inj Date : 17-APR-2010 11:24
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml(15:50),;1476-750;Level-5;
Misc Info : O2
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:43 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 12:33 Cal File: 9041711b.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: O2.sub
Target Version: 3.50
Processing Host: eeyore

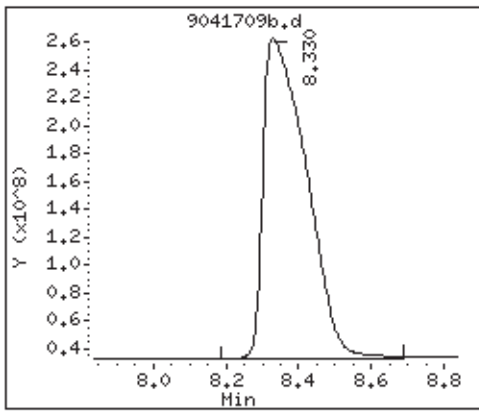
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
9 Oxygen	8.330	8.340	-0.010	9556518978	29.9100	29.3



9 Oxygen



Air Toxics Ltd.

Modified ASTM D-1945

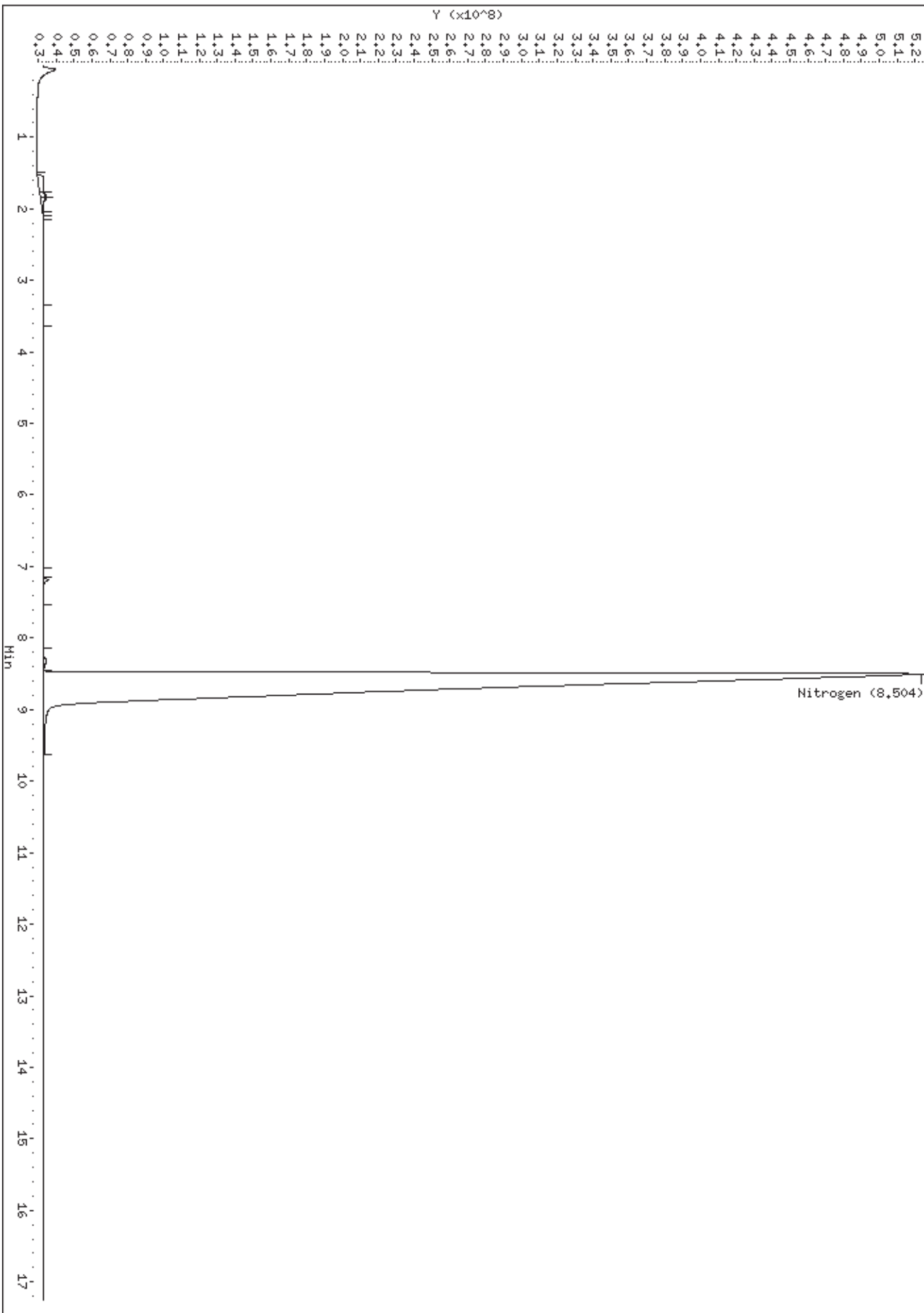
Data file : /chem/gc9.i/17Apr2010.b/9041708b.d
Lab Smp Id: 1830-N2 Client Smp ID: Level-5
Inj Date : 17-APR-2010 10:58
Operator : ly Inst ID: gc9.i
Smp Info : 1.0ml, Bag; 1830-N2; Level-5;
Misc Info : N2
Comment : GC/TCD
Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Meth Date : 19-Apr-2010 10:43 gmash Quant Type: ESTD
Cal Date : 17-APR-2010 12:33 Cal File: 9041711b.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: n2.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

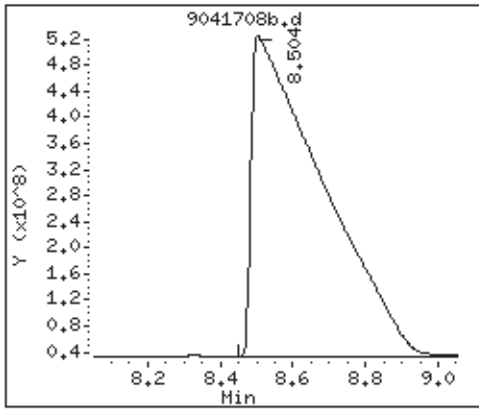
Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	
10 Nitrogen	8.504	8.555	-0.051	33759844822	100.000	92.5



10 Nitrogen



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc9.i Injection Date: 01-JUN-2010 07:39
 Lab File ID: 9060101.d Init. Cal. Date(s): 30-APR-2010 30-APR-2010
 Analysis Type: AIR Init. Cal. Times: 09:54 17:55
 Lab Sample ID: 1544-365B, Ngas Quant Type: ESTD
 Method: /chem/gc9.i/01Jun2010.b/910n0430.m

COMPOUND	RF0.000		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RRF	%D / %DRIFT	%D / %DRIFT	%D / %DRIFT	%D / %DRIFT	
2 Methane	165565421	151506245	0.010	8.49161	15.00000	Averaged	
3 ethane	304581453	296451600	0.010	2.66919	15.00000	Averaged	
4 ethene	298927340	292500758	0.010	2.14988	15.00000	Averaged	
5 propane	462210877	448229645	0.010	3.02486	15.00000	Averaged	
7 acetylene	373659611	369320765	0.010	1.16118	15.00000	Averaged	
8 iso-butane	608569261	597230747	0.010	1.86314	15.00000	Averaged	
10 n-butane	627463688	600366774	0.010	4.31848	15.00000	Averaged	
15 neo-pentane	809133482	791523961	0.010	2.17634	15.00000	Averaged	
16 isopentane	746501171	748686207	0.010	-0.29270	15.00000	Averaged	
17 pentane	773098274	758340395	0.010	1.90893	15.00000	Averaged	
M 37 C6+ Hydrocarbons	1.021e+09	996076709	0.010	2.45135	15.00000	Averaged	
S 22 c6-c7	1.021e+09	993604728	0.010	2.69344	15.00000	Averaged	
S 36 c8+	1.021e+09	++++	0.010	++++	15.00000	Averaged <-	

Air Toxics Ltd.

Modified ASTM-1945 Analysis

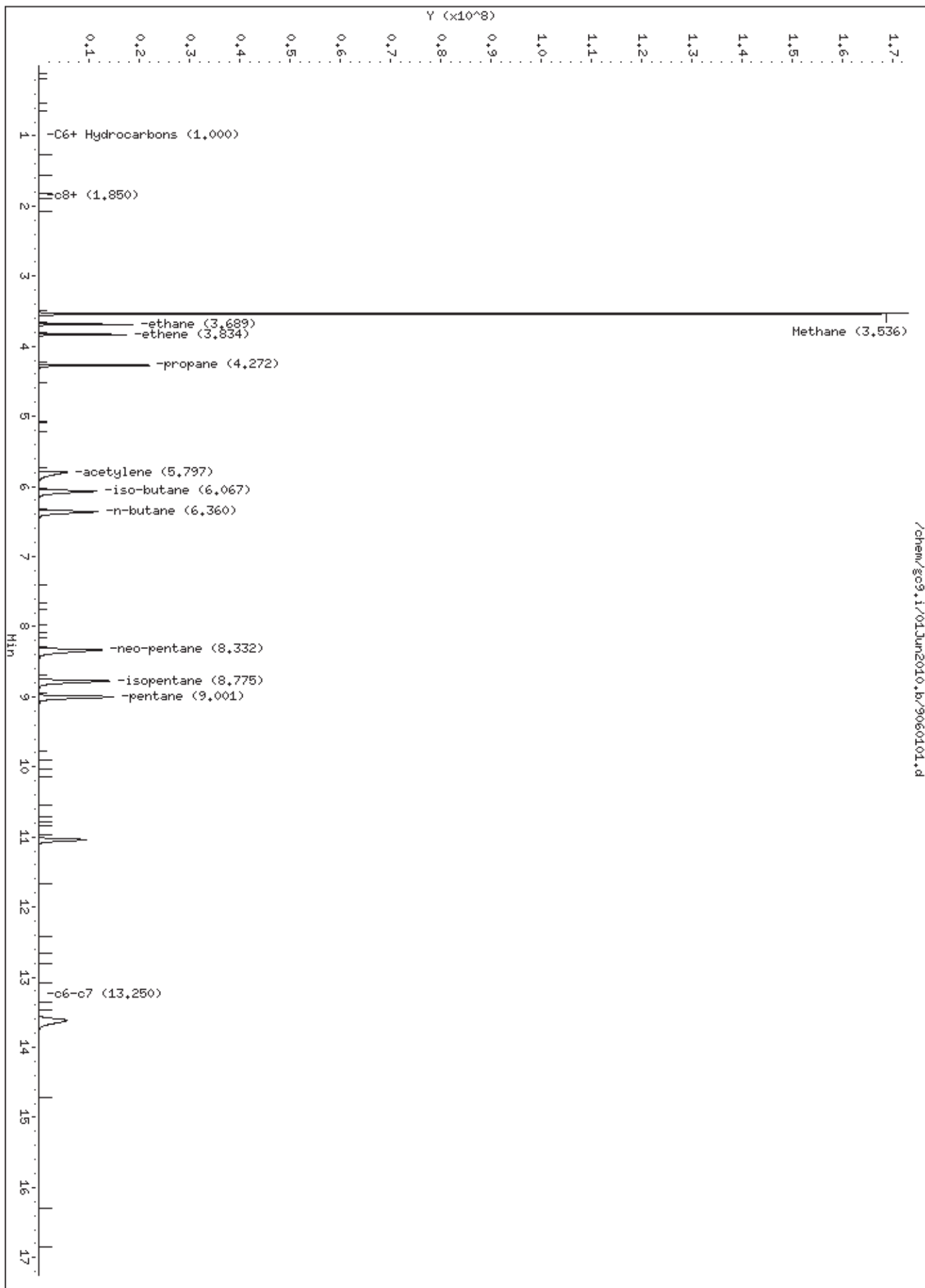
Data file : /chem/gc9.i/01Jun2010.b/9060101.d
 Lab Smp Id: 1544-365B, Ngas Client Smp ID: CCV
 Inj Date : 01-JUN-2010 07:39
 Operator : ly Inst ID: gc9.i
 Smp Info : 1.0mL,34219
 Misc Info : CCV
 Comment : GC FID
 Method : /chem/gc9.i/01Jun2010.b/910n0430.m
 Meth Date : 01-Jun-2010 08:01 lyohanne Quant Type: ESTD
 Cal Date : 01-JUN-2010 07:39 Cal File: 9060101.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ngas.sub
 Target Version: 3.50
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

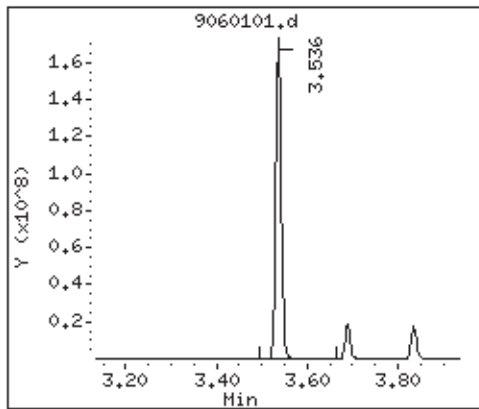
Cpnd Variable

Local Compound Variable

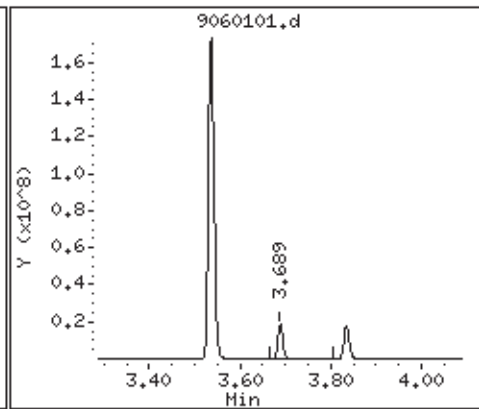
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
2 Methane	3.536	3.536	0.000	1507487138	9.95000	9.10
3 ethane	3.689	3.689	0.000	147336445	0.49700	0.484
4 ethene	3.834	3.834	0.000	146250379	0.50000	0.489
5 propane	4.272	4.272	0.000	225907741	0.50400	0.489
7 acetylene	5.797	5.797	0.000	185029703	0.50100	0.495
8 iso-butane	6.067	6.067	0.000	298615373	0.50000	0.491
10 n-butane	6.360	6.360	0.000	300183387	0.50000	0.478
15 neo-pentane	8.332	8.332	0.000	399719600	0.50500	0.494
16 isopentane	8.775	8.775	0.000	378086534	0.50500	0.506
17 pentane	9.001	9.001	0.000	382961899	0.50500	0.495
M 37 C6+ Hydrocarbons				509991274	0.51200	0.499
S 22 c6-c7	9.250-17.250			508725620	0.51200	0.498
S 36 c8+	0.700-3.000			1265654	0.00000	0.00124



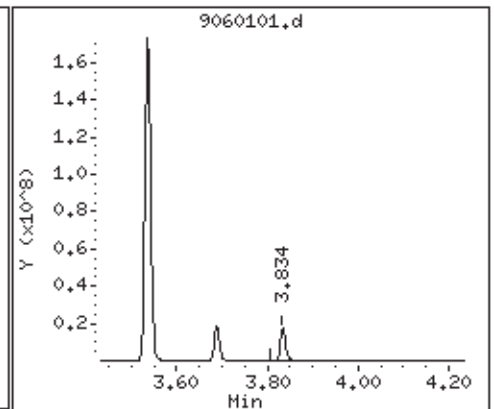
2 Methane



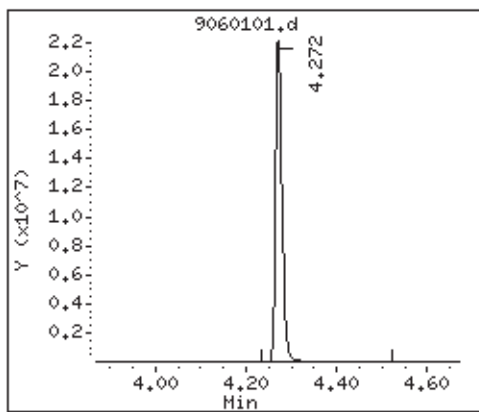
3 ethane



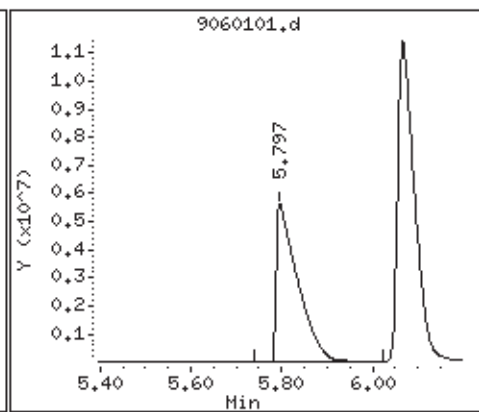
4 ethene



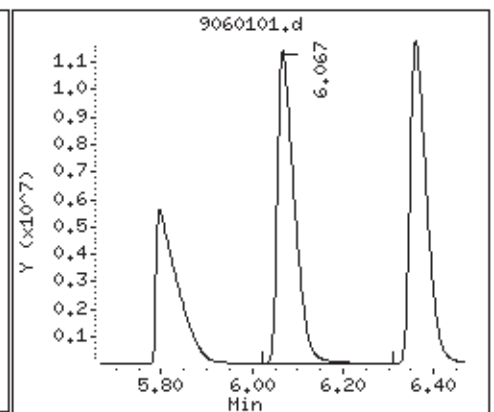
5 propane



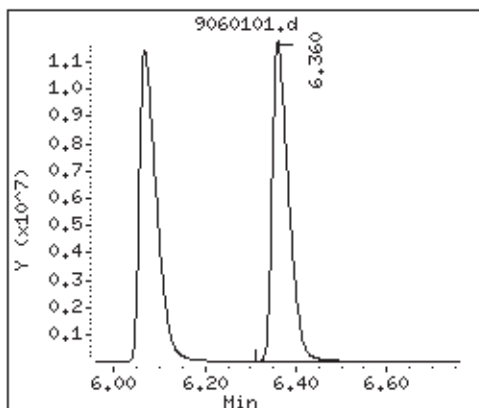
7 acetylene



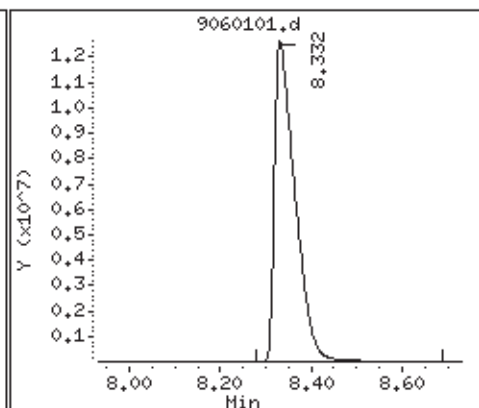
8 iso-butane



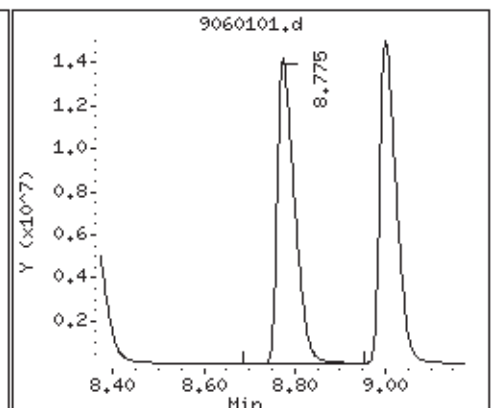
10 n-butane



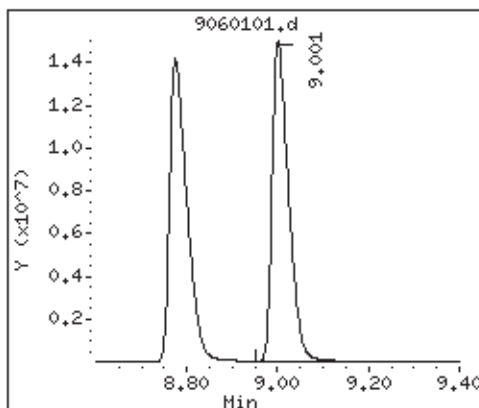
15 neo-pentane



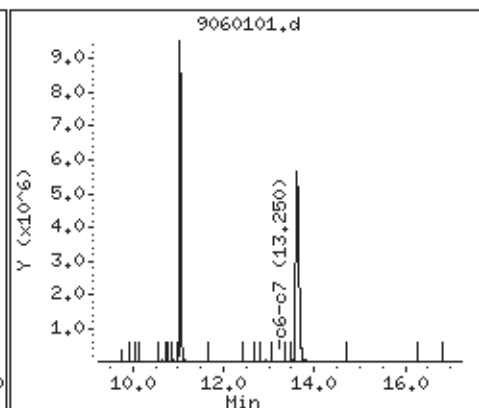
16 isopentane



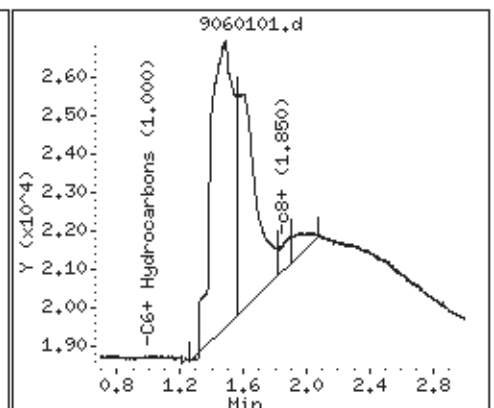
17 pentane



S 22 c6-c7



S 36 c8+



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc9.i Injection Date: 01-JUN-2010 07:39
Lab File ID: 9060101b.d Init. Cal. Date(s): 17-APR-2010 17-APR-2010
Analysis Type: AIR Init. Cal. Times: 09:26 16:10
Lab Sample ID: 1544-365B, Ngas Quant Type: ESTD
Method: /chem/gc9.i/01Jun2010.b/910n0430.m/910C0417.m

COMPOUND	RRF / AMOUNT	RF0.000	RRF	%D / %DRIFT	MAX	CURVE TYPE
3 Carbon Dioxide	550433949	508357283	0.010	7.64427	15.00000	Averaged
1 Helium	66861269	65911627	0.010	1.42032	15.00000	Averaged
9 Oxygen	325899096	311880992	0.010	4.30136	15.00000	Averaged
10 Nitrogen	364890596	340127983	0.010	6.78631	15.00000	Averaged
12 Carbon Monoxide	283422459	309350990	0.010	-9.14837	15.00000	Averaged

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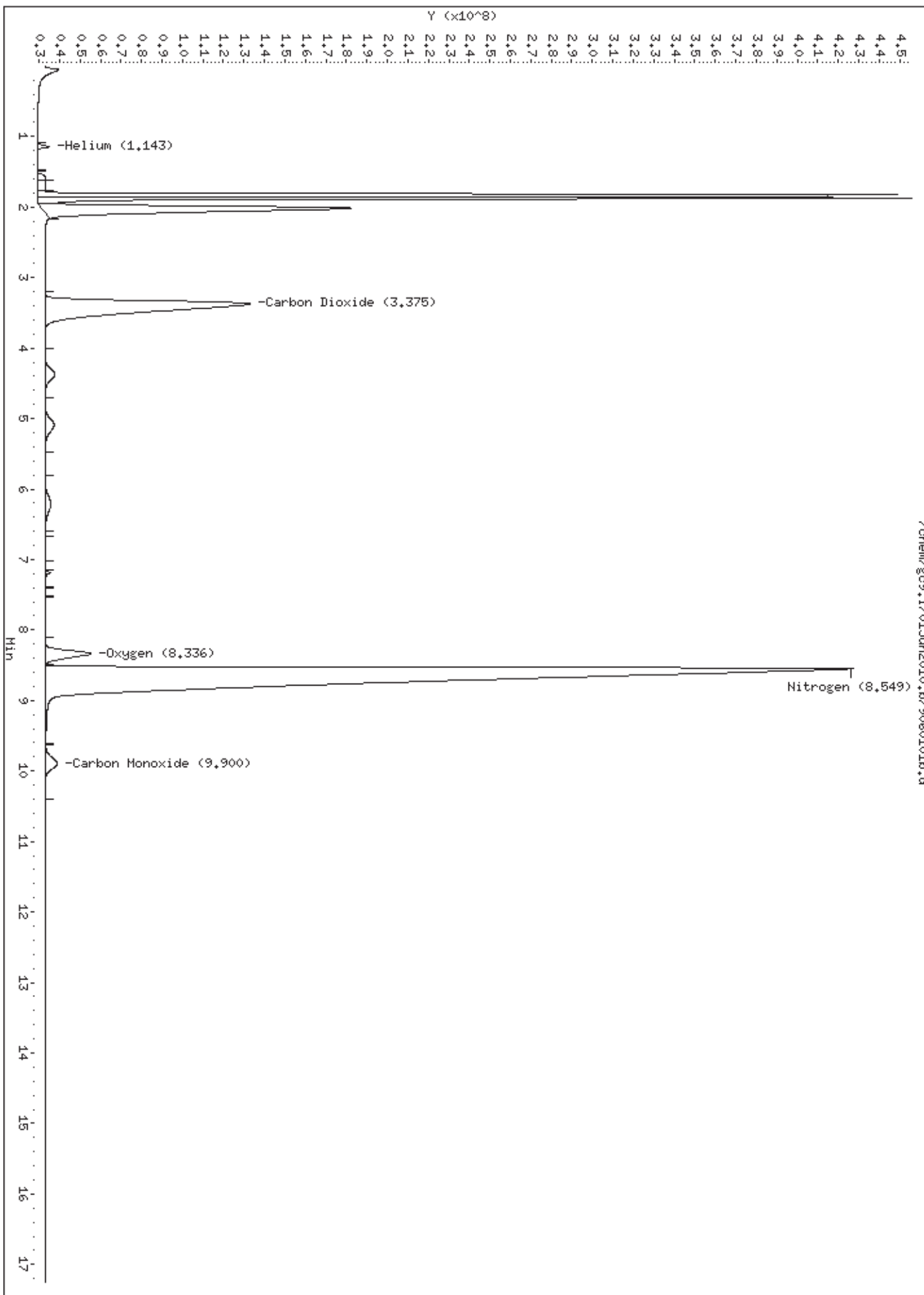
Modified ASTM D-1945

Data file : /chem/gc9.i/01Jun2010.b/9060101b.d
Lab Smp Id: 1544-365B, Ngas Client Smp ID: CCV
Inj Date : 01-JUN-2010 07:39
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,34219
Misc Info : CCV
Comment : GC/TCD
Method : /chem/gc9.i/01Jun2010.b/910n0430.m/910C0417.m
Meth Date : 01-Jun-2010 08:01 lyohanne Quant Type: ESTD
Cal Date : 01-JUN-2010 07:39 Cal File: 9060101b.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ng+He-H2.sub
Target Version: 3.50
Processing Host: eeyore

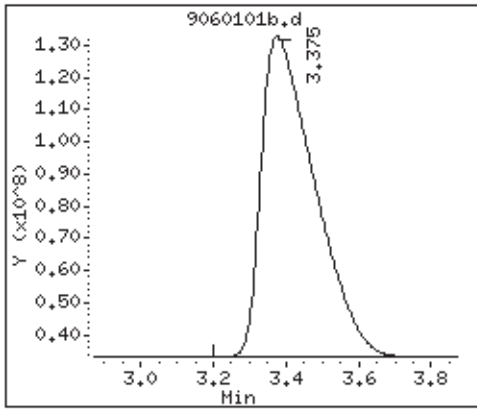
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

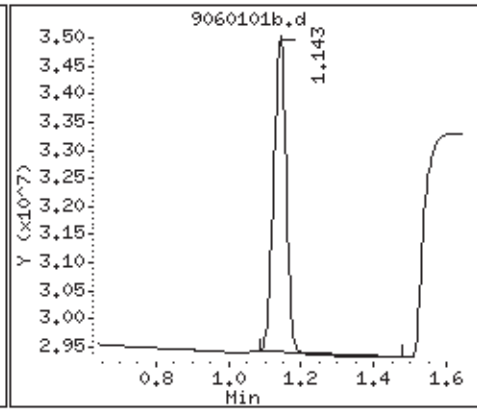
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
3 Carbon Dioxide	3.375	3.375	0.000	5083572832	10.0000	9.24
1 Helium	1.143	1.143	0.000	65054775	0.98700	0.973
9 Oxygen	8.336	8.336	0.000	779702480	2.50000	2.39
10 Nitrogen	8.549	8.549	0.000	23987185839	70.5240	65.7
12 Carbon Monoxide	9.900	9.900	0.000	312444499	1.01000	1.10



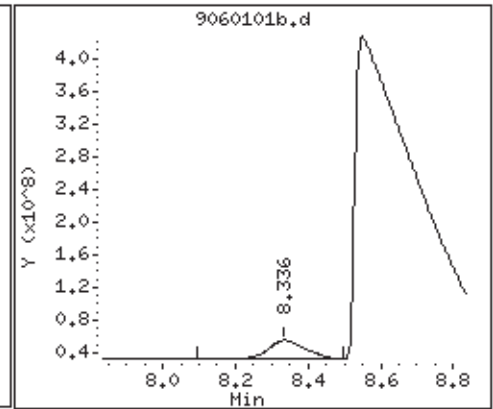
3 Carbon Dioxide



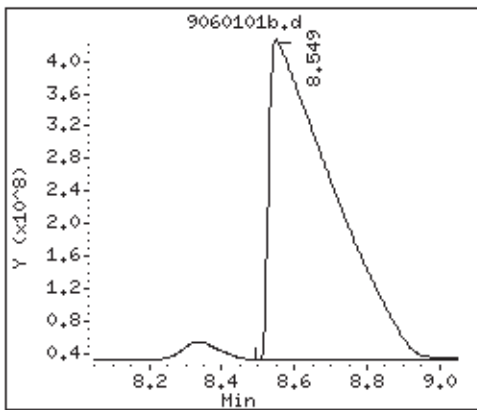
1 Helium



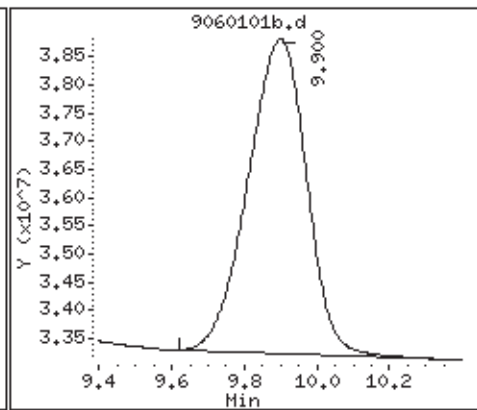
9 Oxygen



10 Nitrogen



12 Carbon Monoxide



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc9.i Injection Date: 01-JUN-2010 17:29
Lab File ID: 9060118b.d Init. Cal. Date(s): 17-APR-2010 17-APR-2010
Analysis Type: AIR Init. Cal. Times: 09:26 16:10
Lab Sample ID: 1476-977 H2 Quant Type: ESTD
Method: /chem/gc9.i/01Jun2010.b/910n0430.m/910C0417.m

COMPOUND	RRF / AMOUNT	RF0.000	RRF	%D / %DRIFT	MAX	CURVE TYPE
2 Hydrogen	105110654	95826524	0.010	8.83272	15.00000	Averaged

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Modified ASTM D-1945

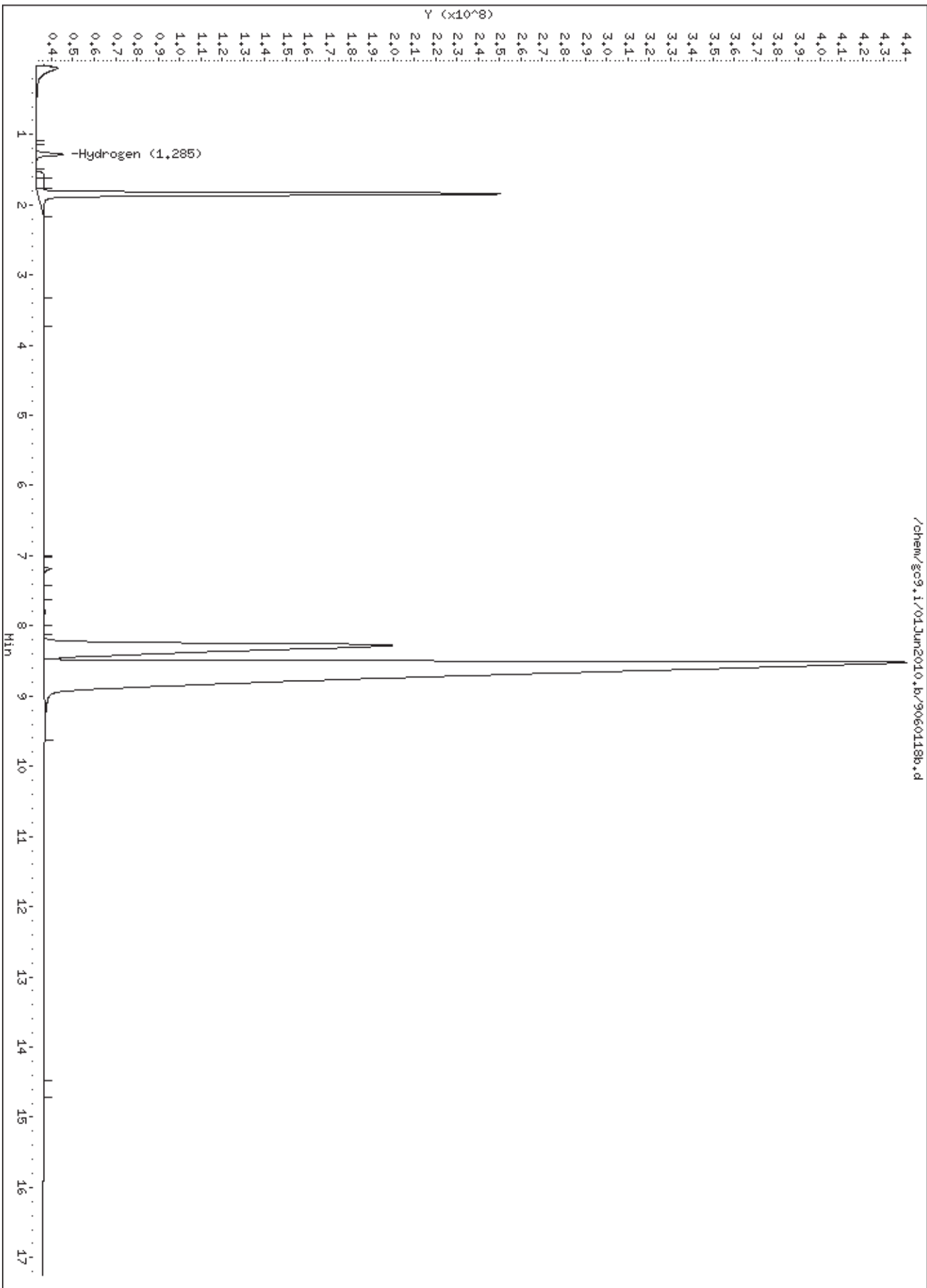
Data file : /chem/gc9.i/01Jun2010.b/9060118b.d
Lab Smp Id: 1476-977 H2 Client Smp ID: CCV
Inj Date : 01-JUN-2010 17:29
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,;1476-977 H2;CCV
Misc Info : CCV
Comment : GC/TCD
Method : /chem/gc9.i/01Jun2010.b/910n0430.m/910C0417.m
Meth Date : 01-Jun-2010 17:45 lyohanne Quant Type: ESTD
Cal Date : 01-JUN-2010 17:29 Cal File: 9060118b.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: h2.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

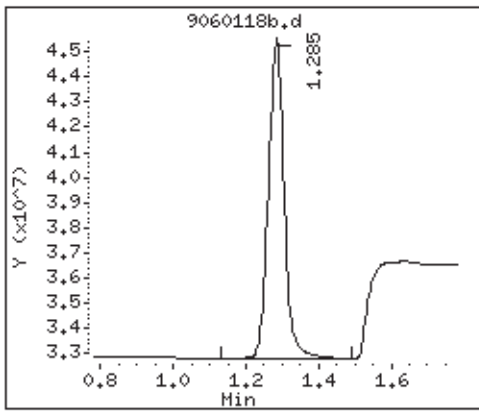
Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
=====	==	=====	=====	=====	=====	=====
2 Hydrogen	1.285	1.285	0.000	191653048	2.00000	1.82



2 Hydrogen



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc9.i Injection Date: 02-JUN-2010 10:32
 Lab File ID: 9060201.d Init. Cal. Date(s): 30-APR-2010 30-APR-2010
 Analysis Type: AIR Init. Cal. Times: 09:54 17:55
 Lab Sample ID: 1544-365BNgas Quant Type: ESTD
 Method: /chem/gc9.i/02Jun2010.b/910n0430.m

COMPOUND	RF0.000		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RRF	%D / %DRIFT	%D / %DRIFT	%D / %DRIFT		
2 Methane	165565421	155166097	0.010	6.28110	15.00000	Averaged	
3 ethane	304581453	303648497	0.010	0.30631	15.00000	Averaged	
4 ethene	298927340	299502058	0.010	-0.19226	15.00000	Averaged	
5 propane	462210877	459132778	0.010	0.66595	15.00000	Averaged	
7 acetylene	373659611	377422782	0.010	-1.00711	15.00000	Averaged	
8 iso-butane	608569261	611806952	0.010	-0.53202	15.00000	Averaged	
10 n-butane	627463688	614664644	0.010	2.03981	15.00000	Averaged	
15 neo-pentane	809133482	812503911	0.010	-0.41655	15.00000	Averaged	
16 isopentane	746501171	769276329	0.010	-3.05092	15.00000	Averaged	
17 pentane	773098274	779382895	0.010	-0.81291	15.00000	Averaged	
M 37 C6+ Hydrocarbons	1.021e+09	1.026e+09	0.010	-0.49955	15.00000	Averaged	
S 22 c6-c7	1.021e+09	1.024e+09	0.010	-0.24561	15.00000	Averaged	
S 36 c8+	1.021e+09	++++	0.010	++++	15.00000	Averaged <-	

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Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/02Jun2010.b/9060201.d
 Lab Smp Id: 1544-365BNGas Client Smp ID: CCV
 Inj Date : 02-JUN-2010 10:32
 Operator : ly Inst ID: gc9.i
 Smp Info : 1.0mL,34219
 Misc Info : CCV
 Comment : GC FID
 Method : /chem/gc9.i/02Jun2010.b/910n0430.m
 Meth Date : 02-Jun-2010 22:28 lyohanne Quant Type: ESTD
 Cal Date : 02-JUN-2010 10:32 Cal File: 9060201.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ngas.sub
 Target Version: 3.50
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (%)	ON-COL (%)
2 Methane	3.536	3.536	0.000	1543902663	9.95000	9.32
3 ethane	3.688	3.688	0.000	150913303	0.49700	0.495
4 ethene	3.834	3.834	0.000	149751029	0.50000	0.501
5 propane	4.271	4.271	0.000	231402920	0.50400	0.501
7 acetylene	5.799	5.799	0.000	189088814	0.50100	0.506(A)
8 iso-butane	6.065	6.065	0.000	305903476	0.50000	0.503(A)
10 n-butane	6.358	6.358	0.000	307332322	0.50000	0.490
15 neo-pentane	8.326	8.326	0.000	410314475	0.50500	0.507(A)
16 isopentane	8.769	8.769	0.000	388484546	0.50500	0.520
17 pentane	8.996	8.996	0.000	393588362	0.50500	0.509
M 37 C6+ Hydrocarbons				525418764	0.51200	0.514
S 22 c6-c7	9.250-17.250			524091147	0.51200	0.513
S 36 c8+	0.700-3.000			1327617	0.00000	0.00130

QC Flag Legend

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

