

Date : 28-MAY-2010 08:59

Client ID: BFB

Instrument: msd3.i

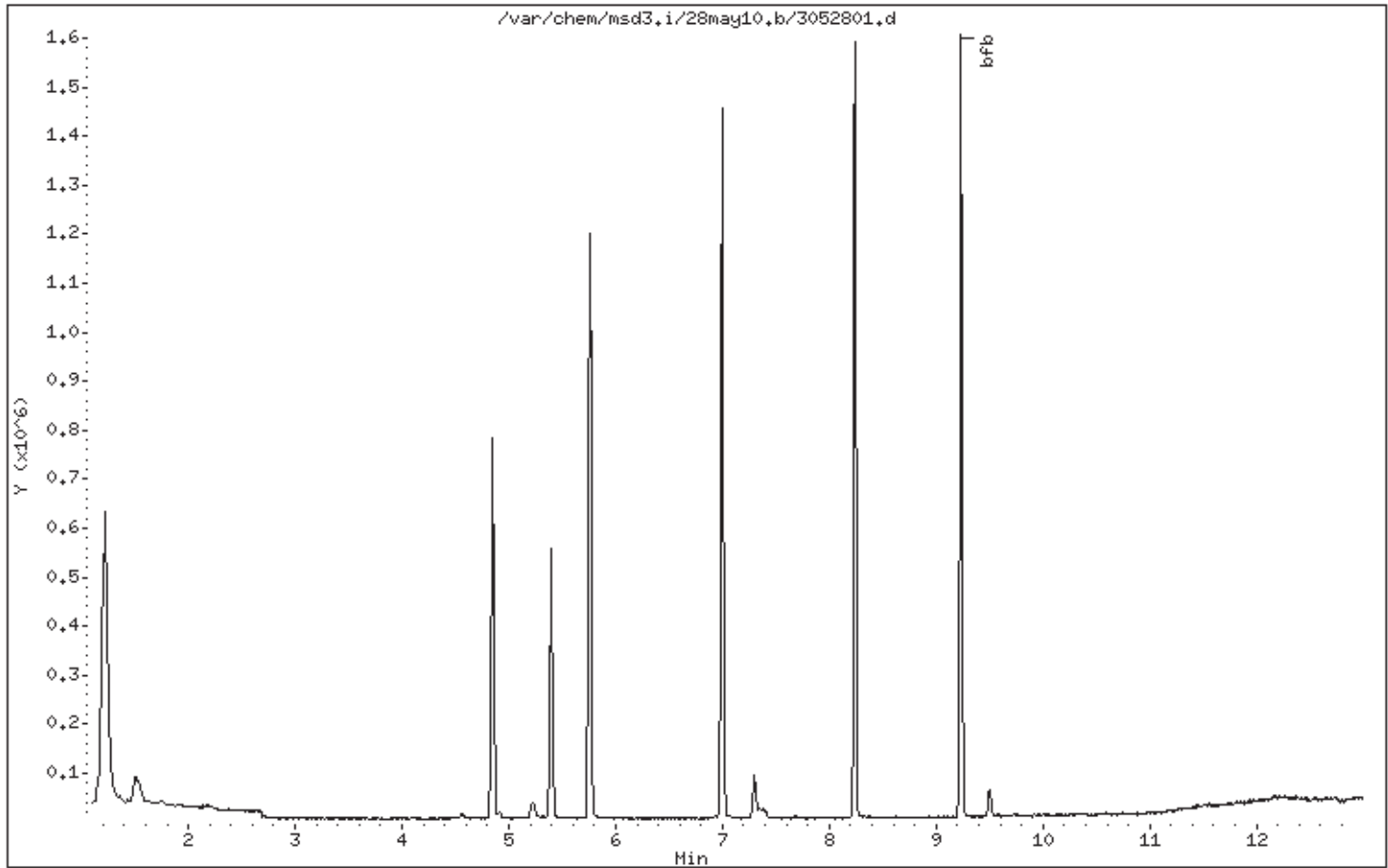
Sample Info: 1mL #1936-174;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0

Operator: lo

Column phase:

Column diameter: 2.00



Date : 28-MAY-2010 08:59

Client ID: BFB

Instrument: msd3.i

Sample Info: 1mL #1936-174;BFB Tune Check;BFB Tune Check

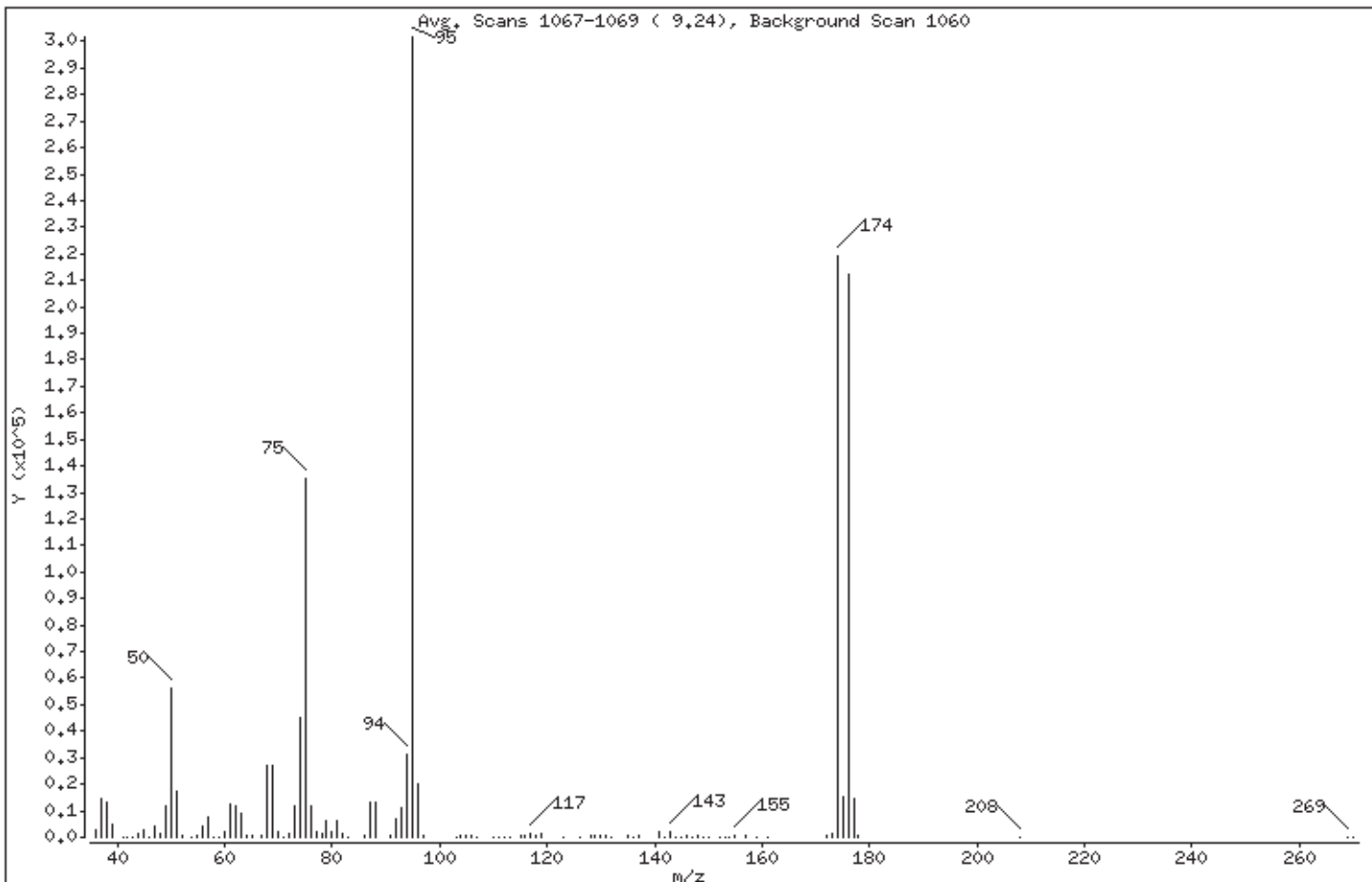
Volume Injected (uL): 1.0

Operator: lo

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.60
75	30.00 - 60.00% of mass 95	44.74
96	5.00 - 9.00% of mass 95	6.74
173	Less than 1.99% of mass 174	0.37 (0.51)
174	50.01 - 100.00% of mass 95	72.73
175	5.00 - 9.00% of mass 174	5.04 (6.93)
176	95.01 - 100.99% of mass 174	70.36 (96.73)
177	5.00 - 9.00% of mass 176	4.72 (6.70)

Date : 28-MAY-2010 08:59

Client ID: BFB

Instrument: msd3.i

Sample Info: 1mL #1936-174;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0

Operator: lo

Column phase:

Column diameter: 2.00

Data File: 3052801.d

Spectrum: Avg. Scans 1067-1069 (9.24), Background Scan 1060

Location of Maximum: 95.00

Number of points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2485	65.00	599	97.00	474	143.00	2019
37.00	14459	67.00	652	103.00	61	144.00	84
38.00	12935	68.00	27320	104.00	1002	145.00	155
39.00	5029	69.00	27096	105.00	590	146.00	456
41.00	22	70.00	2128	106.00	1002	147.00	150
42.00	218	71.00	151	107.00	321	148.00	477
43.00	102	72.00	1522	110.00	134	149.00	112
44.00	1692	73.00	12039	111.00	262	150.00	260
45.00	2657	74.00	44792	112.00	135	152.00	86
46.00	155	75.00	134976	113.00	237	153.00	195
47.00	4245	76.00	11766	115.00	374	154.00	77
48.00	1579	77.00	1787	116.00	812	155.00	581
49.00	11877	78.00	1585	117.00	1437	157.00	455
50.00	56120	79.00	6171	118.00	719	159.00	196
51.00	17416	80.00	1991	119.00	1348	161.00	175
52.00	755	81.00	6503	123.00	82	172.00	519
54.00	230	82.00	1634	126.00	180	173.00	1115
55.00	586	83.00	246	128.00	960	174.00	219392
56.00	4000	86.00	401	129.00	434	175.00	15214
57.00	7920	87.00	13371	130.00	994	176.00	212224
58.00	331	88.00	13232	131.00	521	177.00	14229
59.00	80	91.00	822	132.00	73	178.00	440
60.00	2413	92.00	7107	135.00	352	208.00	53
61.00	12699	93.00	11302	136.00	55	269.00	72
62.00	11895	94.00	31448	137.00	357	270.00	51
63.00	8923	95.00	301696	141.00	1985		
64.00	1022	96.00	20328	142.00	261		

Shipping/ Receiving Documents

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 Discrepancies below.

In order to expedite analysis and reporting, please review the attached information for
For corrections ca **Karen Lopez 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



CHAIN-OF-CUSTODY RECORD

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

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

Page 2 of 6

Project Manager Melissa Klevin
 Collected by: (Print and Sign) Eric Cherry
 Company Exponent Email m.klevin@exponent.com
 Address 15375 SE 34th City Bellvue State WA Zip 98007
 Phone 425-519-8334 Fax 425-519-8799

Project Info:
 P.O. # _____
 Project # 0903194.000.060
 Project Name Regalox Kompust

Turn Around Time: Normal Rush
 Date: _____
 Pressurization Gas: _____
 specify: _____
 Ne He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	
07A	ALF-2	35972	5-13-10	12:32	HOLD	28.5	4.5		
08A	ALF-3	415		12:34	HOLD	29.0	8.0		
09A	ALF-4	9945		12:36	HOLD	29.3	10.5		
10A	ALF-5	34223		12:43	HOLD	29.1	9.5		
11A	AOS-1	12034		13:14	HOLD	27.5	7.5		
12A	AOS-2	R-7		13:11	HOLD	27.2	6.5		
13A	AOS-3	25276	5-13-10	13:32	HOLD	28.8	6.2		
14A	GV-1	34331	5-16-10	11:36	ASTMP-1995, 98-15 and 98-16 sample - not by dno.	28.4	8.5		
15A	GV-6	1571	5-16-10	12:17		29.1	9.5		
16A	GV-7	2335	5-16-10	12:54		26.3	5.5		
Relinquished by: (signature) _____ Date/Time <u>5-18-10 / 1730</u>		Received by: (signature) <u>Monica Enggren</u> Date/Time _____		Notes: <u>SL1910920</u>					
Relinquished by: (signature) _____ Date/Time _____		Received by: (signature) _____ Date/Time _____							

Lab Use Only
 Shipper Name pacl Air Bill # _____ Temp (°C) NA Condition Good Custody Seals Intact? Yes No None 1005453
 Work Order # _____



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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160 BLUE RAVINE ROAD, SUITE B
 FOLSOM, CA 95630-4719
 (916) 985-1000 FAX (916) 985-1020

Page 6 of 6

Project Manager Melissa Kruken
 Collected by: (Print and Sign) Eric Cherry / ERM
 Company Exponent Email mike@exponent.com
 Address 15375 SE 30th Pl Bellevue WA 98007
 Phone 425-519-8774 Fax 425-519-8799

Project Info:
 P.O. # _____
 Project # 0907194.008.0601
 Project Name Highway Remediation

Turn Around Time:
 Normal
 Rush
 Pressurization Gas: _____
 specify N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial Pressure	Final Pressure	Final Seal
	GV-13	1	5-16-10	15:27	Styrofoam Method 31	20.7-L	3hr	
	GV-9	2	5-16-10	15:27	Air Toxics Method 31	20.7-L	3hr	
33A	GV-10	-	5-15-10	17:06 / 17:55	PCBS, EPATO-15	3L/min	4hr	
34A	GV-10	-	5-15-10	18:50 / 22:00	PCBS, EPATO-15	1.5L/min	4hr	
35A	PCB Trip Blank	-	-	-	PCBS: EPATO-15	-	-	

Relinquished by: (signature) [Signature] Date/Time 5.18.10/1730
 Relinquished by: (signature) _____ Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____

Received by: (signature) Monica Kroppen AT Date/Time _____
 Received by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Notes: 900

Lab Use Only: Shipper Name Ed Ex Air Bill # _____ Temp (°C) NA Condition Good Custody Seals Intact? Yes No None Work Order # 1005453



CHAIN-OF-CUSTODY RECORD

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

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

Page 1 of 6

Project Manager Melissa Klevan
 Collected by: (Print and Sign) Eric Cherry
 Company Exponent Email mexponent.com
 Address 15335 SE 30th Pl City Bellevue State WA Zip 98007
 Phone 425-519-8774 Fax 425-519-8799

Project Info:
 P.O. # —
 Project # 0907194.000.0601
 Project Name Heq/Ar-Kronquist

Turn Around Time:
 Normal
 Rush
specify

Lab Use Only
 Pressurized by: _____ Date: _____
 Pressurization Gas: _____
 N _____ He _____

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Receipt
	<u>GV-01 KP</u>		<u>5-16-10</u>	<u>11:41</u>	<u>ASTM D-1945; EPA 15</u>			
	<u>GV-02 KP</u>							
	<u>GV-03 KP</u>							
	<u>GV-04 KP</u>							
<u>O1A</u>	<u>GV-09</u>	<u>1575</u>	<u>5-16-10</u>	<u>11:41</u>	<u>ASTM D-1945; EPA 15</u>	<u>29.0</u>	<u>8.0</u>	
<u>O2A</u>	<u>GV-10</u>	<u>13667</u>		<u>11:42</u>	<u>and gas</u>	<u>29.0</u>	<u>9.1</u>	
<u>O3A</u>	<u>GV-11</u>	<u>3038</u>		<u>13:39</u>	<u>nborg</u>	<u>29.0</u>	<u>7.0</u>	
<u>O4A</u>	<u>GV-12</u>	<u>1330</u>		<u>23:06</u>	<u>Perthium Hydroxide</u>	<u>29.0</u>	<u>8.0</u>	
<u>O5A</u>	<u>GV-13</u>	<u>3370</u>		<u>14:27</u>		<u>29.5</u>	<u>7.8</u>	
<u>O6A</u>	<u>ALF-1</u>	<u>9913</u>	<u>5-17-10</u>	<u>12:30</u>		<u>28.5</u>	<u>9.5</u>	

Relinquished by: (signature) [Signature] Date/Time 5-18-10 / 1730
 Received by: (signature) Melissa Klevan Date/Time 5/19/10 900
 Notes: AR \$19110 900

Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Shipper Name Fed Ex Air Bill # _____ Temp (°C) NA Condition Good
 Custody Seals Intact? Yes No None Work Order # 1005453



CHAIN-OF-CUSTODY RECORD

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

Page 2 of 6

Project Manager Melissa Klevm
 Collected by: (Print and Sign) Eric Cherry
 Company Exponent Email m.cherry@exponent.com
 Address 15375 SE 36th City Bellevue State WA Zip 98007
 Phone 425-519-8774 Fax 425-519-8799

Project Info:
 P.O. # _____
 Project # 0907194.000.060
 Project Name Regan Konquist

Turn Around Time:
 Normal
 Rush
 specify _____
 Lab Use Only:
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Receipt (gsm)
07A	ALP-2	35972	5-17-10	12:32	ASTM D-1445: EPA T0-15	28.7	4.5	
08A	ALF-3	415		12:34	and gao	29.0	8.0	
09A	ALF-4	9945		12:36	Neogen perforated hydrocarbon	28.8	10.5	
10A	ALF-5	34223		12:43		29.0	9.5	
11A	AOS-1	12074		13:14		28.6	7.5 ¹⁰	
12A	AOS-2	R-7		13:11		27.2	6.5	
13A	AOS-3	25276	5-17-10	13:32		28.2	6.2	
14A	GV-01	34371	5-16-10	11:36		29.5	8.5	
15A	GV-06	1571	5-16-10	12:17		26.5	9.5	
16A	GV-07	2335	5-16-10	12:54		29.0	5.5	

Relinquished by: (signature) _____ Date/Time 5-18-10 / 1730
 Relinquished by: (signature) _____ Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____

Received by: (signature) Monica Gregson Date/Time _____
 Received by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Notes:
Ship to gao

Shipper Name PAI Air Bill # _____ Temp (°C) NA Condition Good Custody Seals Intact? Yes No None Work Order # 1005453



CHAIN-OF-CUSTODY RECORD

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

Page 6 of 6

Project Manager: Melissa Kleiter
 Collected by: (Print and Sign) Eric Cherry / ERM
 Company: Exponent Email: mkleiter@exponent.com
 Address: 15375 SE 30th Plctiv Bellevue State: WA Zip: 98007
 Phone: 425-519-8774 Fax: 425-519-8799

Project Info:
 P.O. #: _____
 Project #: 0907194.000.0601
 Project Name: Hygar-Komquist

Turn Around Time:
 Normal
 Rush
 Date: _____
 Pressurization Gas: _____
 specify: N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial Volume	Final (psi)	Receipt
	GV13-1	—	5-16-10	15:27	Silicone: Method 31 Air Toxics ↓	20.16L	3hr	
	GV13-2	—	5-16-10	15:27	PCBs: EPATO-15	20.16L	3hr	
33A	GV9	—	5-15-10	19:06/22:50	PCBs: EPATO-15	34mL	4hr	
34A	GV10	—	5-15-10	19:50/22:50	PCBs: EPATO-15	1.54mL	4hr	
35A	PCB Trip Blank	—	—	—	PCBs: EPATO-15	—	—	

Relinquished by: (signature) [Signature] Date/Time: 5.18.10/1730
 Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) [Signature] Date/Time: 5/18/10 9:00
 Received by: (signature) _____ Date/Time: _____

Notes: _____

Relinquished by: (signature) _____ Date/Time: _____
 Received by: (signature) _____ Date/Time: _____

Shipper Name: Exponent Air Bill #: _____ Temp (°C): NA Condition: Good Custody Seals Intact? Yes No None Work Order #: 1005453

SAMPLE RECEIPT SUMMARY

WORKORDER 1005453A

Client
 Ms. Melissa Kleven
 Exponent
 15375 SE 30th Place
 Suite 250
 Bellevue, WA 98007

Phone
 425-519-8774

Fax
 425-643-9827

Date Promised: 06/03/10
Date Completed: 6/2/10
Date Received: 5/19/10
PO#:
Project#: 0907194.000.0601 Heglar - Kronquist

Sales Rep: JJM

Total \$: \$ 3,682.00
Logged By: MG

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Receipt Vac./Pres.</u>	<u>Amount\$</u>
01A	GV-9	Modified TO-15	5/16/2010	9.0 "Hg	\$170.00
02A	GV-10	Modified TO-15	5/16/2010	9.0 "Hg	\$170.00
03A	GV-11	Modified TO-15	5/16/2010	8.4 "Hg	\$170.00
04A(on hold)	GV-12	Modified TO-15	5/16/2010	14.0 "Hg	\$0.00
05A	GV-13	Modified TO-15	5/16/2010	8.6 "Hg	\$170.00
06A(on hold)	ALF-1	Modified TO-15	5/17/2010	10.0 "Hg	\$0.00
07A(on hold)	ALF-2	Modified TO-15	5/17/2010	3.6 "Hg	\$0.00
08A(on hold)	ALF-3	Modified TO-15	5/17/2010	10.2 "Hg	\$0.00
09A(on hold)	ALF-4	Modified TO-15	5/17/2010	11.0 "Hg	\$0.00
10A(on hold)	ALF-5	Modified TO-15	5/17/2010	10.0 "Hg	\$0.00
11A(on hold)	AOS-1	Modified TO-15	5/17/2010	9.0 "Hg	\$0.00
12A(on hold)	AOS-2	Modified TO-15	5/17/2010	9.2 "Hg	\$0.00
13A(on hold)	AOS-3	Modified TO-15	5/17/2010	6.8 "Hg	\$0.00
14A	GV-1	Modified TO-15	5/16/2010	9.8 "Hg	\$170.00
14AA	GV-1 Lab Duplicate	Modified TO-15	5/16/2010	9.8 "Hg	\$0.00
15A	GV-6	Modified TO-15	5/16/2010	10.0 "Hg	\$170.00
16A	GV-7	Modified TO-15	5/16/2010	8.8 "Hg	\$170.00
17A	Lab Blank	Modified TO-15	NA	NA	\$0.00
17B	Lab Blank	Modified TO-15	NA	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#: Heglar Kronquist/14301

BILL TO: Ms. Melissa Kleven
 Exponent
 15375 SE 30th Place
 Suite 250
 Bellevue, WA 98007

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + TPHg

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

SAMPLE RECEIPT SUMMARY Continued

Client	Phone	Date Promised: 06/03/10
Ms. Melissa Kleven	425-519-8774	Date Completed: 6/2/10
Exponent		Date Received: 5/19/10
15375 SE 30th Place	Fax	PO#:
Suite 250	425-643-9827	Project#: 0907194.000.0601 Heglar - Kronquist
Bellevue, WA 98007		Total \$: \$ 3,682.00
Sales Rep: JJM		Logged By: MG

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Receipt Vac./Pres.</u>	<u>Amount\$</u>
18A	CCV	Modified TO-15	NA	NA	\$0.00
18B	CCV	Modified TO-15	NA	NA	\$0.00
19A	LCS	Modified TO-15	NA	NA	\$0.00
19B	LCS	Modified TO-15	NA	NA	\$0.00
Misc. Charges 6 Liter Summa Canister (16) @ \$45.00 each., Shipment 72423					\$720.00
Blue Body Flow Controller (16) @ \$25.00 each., Shipment 72423					\$400.00
Tubing-Teflon (675) @ \$2.00 each.					\$1,350.00
Fitting w/ Pink Ferrule (11) @ \$2.00 each.					\$22.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Heglar Kronquist/14301

BILL TO: Ms. Melissa Kleven
Exponent
15375 SE 30th Place
Suite 250
Bellevue, WA 98007

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + TPHg

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

Sample Discrepancy Report

Identification

Initiated By: MG Project ID:14301 PM: KL Date: 5/21/2010 Discrepancy Type: 1. 2. 3.

Workorder(s) affected: 1005453 Sample(s) affected: 13A/ 33A-35A

1. Sample Receipt Discrepancies

Narration Not Required:

- 1.1. Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- 1.2. No brass cap on canister.
- 1.3. Date of Collection noted on first sample, but no arrow down to indicate all samples.

Notify Lab for further determination:

- 1.4. Tedlar bag received with minimal volume.

Initials: _____ Date: _____

Narration Required in Lab Narrative and Sample Confirmation:

- 1.5. COC was not filled out in ink.
- 1.6. COC improperly relinquished / received.
- 1.7. Sample tags / can numbers do not match the COC.
- 1.8. Sample date error / missing on COC but noted on sample tag (check one).
- 1.9. Custody Seal on the outside of the container was broken / improperly placed (check one).
- 1.10. ID-none on the sample Tag/Blank
- 1.11. Other (describe below).

Describe the Discrepancy: 1.7: Can number for 13A should be 25276

2. Sample Receipt/Screening Discrepancies requiring PM notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out PM must be notified within 24 hrs of initiation

- 2.1. COC was not received with samples.
- 2.2. Analysis method(s) is not specified / incorrectly specified (check one) on the COC.
- 2.3. Incorrect sampling media / container for analysis requested.
- 2.4. Number of samples on the COC does not match the number of samples that were received.
- 2.5. Samples were received expired.
- 2.6. Sampling date (time for sulfur) is not documented for some / any samples (check one).
- 2.7. Sample received with amount of H₂O in the Tedlar Bag.
- 2.8. Sample cannot be analyzed. Container was received broken / leaking / flat / defective.
- 2.9. Tedlar bag / canister received emitting a strong odor; Sample can / cannot (check one) be analyzed.
- 2.10. Tedlar Bag for Sulfur analysis has metal fitting.
- 2.11. Environmental Supply Company valves
- 2.12. Sorbent samples-sampling volume was not provided
- 2.13. Flow controller used – canister samples received at ambient or under pressure.
- 2.14. Canister was at ambient pressure at time of pressurization and (check all that apply):
 - Canister failed leak check on two manifolds,
 - Canister valve was open,
 - Brass nut was loose/not present.
 - Sample can be analyzed
 - Cannot be analyzed
- 2.15. Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. And the final vac. reported on the COC, indicating loss of vacuum.
- 2.16. Canister sample received at >15"Hg (not identified as a Trip/Field Blank).
- 2.17. Canister Trip Blank received at low vacuum (< 25"Hg).
- 2.18. Sorbent Sample received outside method required temperature of 2°C to 6°C; ice / blue ice (check one) was present. A temp. Blank was / was not present (check one).
- 2.19. Other (describe below)

Initials

:

Date: _____

Notify Receiving:

Notify PM:

Describe the Discrepancy: 2.4: Did not received GV9, GV10 and PCB Trip Blank (33A, 34A and 35A)



3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out PM must be notified within 24 hrs of initiation

- 3.1. Tedlar Bag found to be leaking at the time of analysis; sample can / cannot (check one) be analyzed.
- 3.2. Tedlar Bag found to be flat/low volume; sample cannot be analyzed.
- 3.3. Sulfur samples received with insufficient time to analyze prior to expiration.
- 3.4. Canister found to be leaking at the time of analysis.
- 3.5. VOST tube saturated; bag dilution necessary.
- 3.6. Sample loss due to instrument malfunction / broken glassware.
- 3.7. Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.
- 3.8. Reporting Limit was raised.
- 3.9. Post weight > Pre weight in field/lab Blank for PM10/TSP samples.
- 3.10. Other (describe below).

Initials

: _____ **Date:** _____ **Notify Receiving:** **Notify PM:**

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: _____

How Does this Affect Client: _____

Project Manager Use Only

Project Manager Notification Complete

Section 2 Complete

Section 3

Action:

It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials: _____ Date: _____

Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials: KL Person notified: Melissa Kleven Date: 5/24/2010

Waiting for Client Reply

Determined that samples did not arrive at our laboratory. Receiving and myself looked for samples. Let client know and understand that samples did not arrive to laboratory.
Comments: _____

Notify Lab Name: _____ Date: _____ **Notify Receiving:**

Additional notifications attached.

Additional Comments:

Other Records

TPH Curve 05/21/2010 MSD - 3

	Total Area	IS/Surr	System Peaks	TPH Area	Conc. (ppbv)	RF
Level 1	18500752	14087266	2549259	1864227	25	74569.08
Level 2	60339155	14390510	1471274	44477371	500	88954.74
Level 3	236761744	14390510	2049990	220321244	2500	88128.50

Average=
%RSD=

83884.11
9.63

Prepared by: *MS 5/24/10*

Reviewed by: *SA 5/24/10*

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /var/chem/msd3.i/27may10.b/3052704.d
 Lab Smp Id: TPHg Client Smp ID: CCV
 Inj Date : 27-MAY-2010 10:28
 Operator : acb Inst ID: msd3.i
 Smp Info : 40mL #1936-166
 Misc Info : 2500ppbv->500ppbv
 Comment :
 Method : /var/chem/msd3.i/27may10.b/310q0520a.m
 Meth Date : 27-May-2010 09:34 Quant Type: AREA%
 Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT10.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.199	1996362	670231	0.336	3.58	UNKNOWN
1.437	105544	65446	0.620	0.19	6 Propylene
1.548	690312	250514	0.363	1.24	13 Butane
1.632	108935	37531	0.345	0.20	
1.702	109126	32338	0.296	0.20	
1.912	45696	12826	0.281	0.08	
1.996	2623402	1015181	0.387	4.70	11 Chloromethane
2.231	1078983	338982	0.314	1.93	42 Pentane
2.381	1132541	460494	0.407	2.03	29 Ethanol
2.474	201458	72827	0.361	0.36	Cyclopropane, 1,2-dime
2.539	638721	233460	0.366	1.14	Cyclopropane, 1,1-dime
2.667	297995	89083	0.299	0.53	Hexane, 2,4,4-trimethy
3.198	1566132	356305	0.228	2.81	Pentane, 2-methyl-
3.284	328994	92427	0.281	0.59	43 Methylene Chloride
3.470	575897	192452	0.334	1.03	46 tert-Butyl-Alcohol
3.677	123205	45121	0.366	0.22	
3.756	467675	193379	0.413	0.84	51 Hexane
3.878	94898	41000	0.432	0.17	
3.943	171597	71390	0.416	0.31	3-Hexene, (E)-
3.993	290267	127180	0.438	0.52	2-Pentene, 4-methyl-,
4.071	76312	38072	0.499	0.14	
4.143	74106	34529	0.466	0.13	
4.258	181995	77270	0.425	0.33	2-Pentene, 3-methyl-,
4.293	284661	96851	0.340	0.51	UNKNOWN

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.387	444365	176457	0.397	0.80	Cyclobutane, ethyl-
4.458	72917	28016	0.384	0.13	
4.845	1721905	785827	0.456	3.08	* 76 Bromochloromethane
4.974	601732	271686	0.452	1.08	75 Tetrahydrofuran
5.046	550345	193474	0.352	0.99	80 Cyclohexane
5.139	719404	342879	0.477	1.29	74 2-Butanone
5.368	3641801	965413	0.265	6.52	\$ 89 1,2-Dichloroethane-d4
5.461	91859	42837	0.466	0.16	
5.540	580881	327558	0.564	1.04	94 Heptane
5.590	49748	26248	0.528	0.09	
5.683	183723	67328	0.366	0.33	2-Hexene, 3-methyl-, (
5.762	2150620	1302098	0.605	3.85	* 97 1,4-Difluorobenzene
5.805	36987	23105	0.625	0.07	
5.884	96044	31229	0.325	0.17	
6.048	559631	210099	0.375	1.00	104 Methyl Cyclohexane
6.091	374232	166483	0.445	0.67	Heptane, 4,4-dimethyl-
6.149	73014	35245	0.483	0.13	
6.228	87522	38260	0.437	0.16	
6.278	51714	22239	0.430	0.09	
6.407	806933	384727	0.477	1.45	Pentane, 2,3,4-trimeth
6.521	1018011	404082	0.397	1.82	Pentane, 2,3,3-trimeth
6.579	154005	122731	0.797	0.28	
6.707	482688	213174	0.442	0.86	Octane, 3,4-dimethyl-
6.836	302178	153859	0.509	0.54	Hexane, 2,2,4-trimethy
6.908	75400	29753	0.395	0.14	
7.001	2466388	1542487	0.625	4.42	\$ 115 Toluene-d8
7.058	5512375	3285940	0.596	9.84	112 cis-1,3-Dichloropropen
7.209	26967	13227	0.490	0.05	
7.323	132862	53353	0.402	0.24	128 1,1,2-Trichloroethane
7.388	36493	21715	0.595	0.07	
7.467	42101	22003	0.523	0.08	
7.567	89023	37722	0.424	0.16	
7.710	34679	19292	0.556	0.06	
7.746	25587	12642	0.494	0.05	
7.861	51653	24872	0.482	0.09	
7.925	166006	91337	0.550	0.30	
8.025	84432	56085	0.664	0.15	
8.097	28917	11785	0.408	0.05	
8.240	2414616	1655043	0.685	4.33	* 144 Chlorobenzene-d5
8.319	1093883	714742	0.653	1.96	140 1,2-Dibromoethane
8.419	3897942	2670294	0.685	6.98	150 m,p-Xylene
8.584	22117	11369	0.514	0.04	
8.656	26318	10967	0.417	0.05	
8.763	1409093	910497	0.646	2.52	153 o-Xylene
9.050	140295	71687	0.511	0.25	156 Cumene
9.107	95476	46685	0.489	0.17	
9.229	2625599	1794603	0.684	4.70	\$ 159 Bromofluorobenzene
9.272	30835	18597	0.603	0.06	
9.394	338969	217652	0.642	0.61	162 Propylbenzene
9.465	1650500	780814	0.473	2.96	163 4-Ethyltoluene

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.544	580169	384014	0.662	1.04	164 1,3,5-Trimethylbenzene
9.723	446729	273597	0.612	0.80	Benzene, 1-ethyl-2-met
9.866	1666484	1103121	0.662	2.99	166 1,2,4-Trimethylbenzene
9.959	94959	45787	0.482	0.17	
10.067	61398	27640	0.450	0.11	
10.167	152050	52514	0.345	0.27	
10.232	360705	209673	0.581	0.65	Benzene, 1-ethyl-3-met
10.382	270825	97666	0.361	0.49	Benzene, 1-methyl-3-pr
10.411	145219	87998	0.606	0.26	
10.432	311255	154813	0.497	0.56	170 alpha-Chlorotoluene
10.547	52605	27001	0.513	0.09	
10.604	51694	33002	0.638	0.09	
10.676	106560	60558	0.568	0.19	
10.704	83728	53150	0.635	0.15	
10.762	128972	90715	0.703	0.23	
10.883	62104	26156	0.421	0.11	
11.027	36307	18619	0.513	0.07	
11.106	80312	45925	0.572	0.14	
11.156	92003	57287	0.623	0.16	
11.392	37751	23629	0.626	0.07	
11.535	64021	23065	0.360	0.11	
11.829	24318	9779	0.402	0.04	
11.908	95017	45482	0.479	0.17	
12.001	71912	39290	0.546	0.13	
12.151	57491	28440	0.495	0.10	176 Naphthalene
12.617	57998	18996	0.328	0.10	
=====				=====	
	55828185	28143023		100.000	

Total unknown % area = 27.030

$$\frac{55828185 - 1996362 - 11012820}{83884.11} = \frac{310}{500} = 102\%$$

DOB
5/27/10

Report Date: 27-May-2010 11:33

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/27may10.b/3052706.d
 Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
 Inj Date : 27-MAY-2010 11:16
 Operator : acb Inst ID: msd3.i
 Smp Info : 200mL#917
 Misc Info : humid
 Comment :
 Method : /var/chem/msd3.i/27may10.b/310q0520a.m
 Meth Date : 27-May-2010 10:51 abarton Quant Type: AREA%
 Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT10.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.199	1798091	530938	0.295	13.45	
1.535	227570	42155	0.185	1.70	
2.410	10023	3863	0.385	0.07	
2.675	18085	14386	0.795	0.14	
4.852	1278373	737661	0.577	9.56	* 76 Bromochloromethane
4.924	33414	13194	0.395	0.25	
5.397	876958	501288	0.572	6.56	\$ 89 1,2-Dichloroethane-d4
5.762	1927477	1175153	0.610	14.42	* 97 1,4-Difluorobenzene
7.001	2232195	1451926	0.650	16.70	\$ 115 Toluene-d8
8.240	2267720	1560885	0.688	16.97	* 144 Chlorobenzene-d5
9.236	2430097	1665356	0.685	18.20	\$ 159 Bromofluorobenzene
9.580	11794	7070	0.599	0.09	
9.874	13190	6833	0.518	0.10	
10.153	20022	11461	0.572	0.15	
10.232	24517	11255	0.459	0.18	
10.339	20614	8005	0.388	0.15	
10.411	18914	5573	0.295	0.14	
10.561	13157	7219	0.549	0.10	
11.184	10132	4451	0.439	0.08	
11.485	14571	6561	0.450	0.11	
11.929	50042	27971	0.559	0.37	
12.023	28577	15721	0.550	0.21	
12.180	11110	6613	0.595	0.08	
12.416	18845	7573	0.402	0.14	

IS/SUR = 11012820

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
12.789	10974	5584	0.509	0.08	
	13366461	7828695		100.000	

Total unknown % area = 17.590

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/27may10.b/3052723.d
Lab Smp Id: 1005453A-01A
Inj Date : 27-MAY-2010 23:12
Operator : ww Inst ID: msd3.i
Smp Info : 200mL #3748
Misc Info : 9.0"Hg-5psi
Comment :
Method : /var/chem/msd3.i/27may10.b/310q0520a.m
Meth Date : 27-May-2010 10:51 abarton Quant Type: AREA%
Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
Als bottle: 1
Dil Factor: 1.91000
Integrator: HP RTE Compound Sublist: TO15.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.213	123048192	48135054	0.391	35.01	UNKNOWN
1.269	32423979	13295466	0.410	9.25	UNKNOWN
1.395	2209050	703539	0.318	0.63	UNKNOWN
1.437	1996584	924693	0.463	0.57	Propane, 2-methyl-
1.549	641654	304076	0.474	0.18	11 Chloromethane
1.605	264907	119998	0.453	0.08	
1.716	5289004	2221171	0.420	1.51	
1.842	38539054	14041312	0.364	11.00	
1.982	488297	140748	0.288	0.14	24 Chloroethane
2.145	539135	181834	0.337	0.15	UNKNOWN
2.231	267933	85434	0.319	0.08	42 Pentane
2.352	34386	15695	0.456	0.01	
2.467	40042	14963	0.374	0.01	
2.532	77472	25360	0.327	0.02	
2.653	122415	44106	0.360	0.03	
2.725	24770	22569	0.911	0.01	
2.818	341604	146188	0.428	0.10	34 Acetone
2.961	34527	10971	0.318	0.01	
3.097	52992	16296	0.308	0.02	
3.205	341944	116321	0.340	0.10	UNKNOWN
3.298	805312	280608	0.348	0.23	43 Methylene Chloride
3.405	53322	21956	0.412	0.02	
3.463	41734	16678	0.400	0.01	
3.570	30811	12429	0.403	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.678	54358	20999	0.386	0.02	
3.764	47266	15904	0.336	0.01	
3.993	41549	20011	0.482	0.01	
4.079	221046	102093	0.462	0.06	UNKNOWN
4.158	26087	11513	0.441	0.01	
4.179	29017	10610	0.366	0.01	
4.286	31535	14115	0.448	0.01	
4.380	66552	24872	0.374	0.02	
4.458	101171	36559	0.361	0.03	
4.559	22548543	10236509	0.454	6.44	
4.637	394030	127776	0.324	0.11	74 2-Butanone
4.723	164048	50428	0.307	0.05	
4.802	297965	101070	0.339	0.09	
4.845	1634340	833580	0.510	0.47	* 76 Bromochloromethane
4.945	230883	71204	0.308	0.07	UNKNOWN
5.053	70406	20261	0.288	0.02	
5.218	86212594	28060943	0.325	24.61	
5.397	2127683	675238	0.317	0.61	\$ 89 1,2-Dichloroethane-d4
5.540	145498	55429	0.381	0.04	
5.626	19197	10583	0.551	0.01	
5.683	22709	12323	0.543	0.01	
5.762	1953793	1107516	0.567	0.56	* 97 1,4-Difluorobenzene
6.049	17717	6990	0.395	0.01	
6.249	55608	27108	0.487	0.02	
6.364	89705	40284	0.449	0.03	
6.443	21183	7562	0.357	0.01	
6.607	30563	12041	0.394	0.01	
6.836	212916	92503	0.434	0.06	UNKNOWN
6.922	1999588	1018496	0.509	0.57	
6.994	2412358	1450798	0.601	0.69	\$ 115 Toluene-d8
7.044	162696	66364	0.408	0.05	116 Toluene
7.152	47078	30189	0.641	0.01	
7.281	4742532	2336350	0.493	1.35	
7.367	176260	63307	0.359	0.05	
7.574	47005	25228	0.537	0.01	
7.624	22832	12493	0.547	0.01	
7.667	853768	454860	0.533	0.24	UNKNOWN
7.811	87685	29694	0.339	0.03	
7.968	1588434	811954	0.511	0.45	Trisiloxane, octamethy
8.226	2260940	1527433	0.676	0.65	* 144 Chlorobenzene-d5
8.334	19261	11462	0.595	0.01	
8.405	27337	18775	0.687	0.01	
8.606	208111	97396	0.468	0.06	1,3-Dioxa-2,4,6-trisil
8.756	25983	10810	0.416	0.01	
8.993	25476	16035	0.629	0.01	
9.064	439989	209394	0.476	0.13	UNKNOWN
9.215	2477191	1667694	0.673	0.71	\$ 159 Bromofluorobenzene
9.487	2598485	1468362	0.565	0.74	UNKNOWN
9.566	32868	19824	0.603	0.01	
9.709	1153877	633376	0.549	0.33	1-Oxa-2,4,6-trisilacyc

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.845	60731	26390	0.435	0.02	
9.945	119848	55077	0.460	0.03	
9.988	26802	14350	0.535	0.01	
10.046	34802	18144	0.521	0.01	
10.067	29113	17159	0.589	0.01	
10.117	20748	13761	0.663	0.01	
10.153	150036	66016	0.440	0.04	
10.318	179158	52779	0.295	0.05	
10.454	47413	31573	0.666	0.01	
10.561	273588	171057	0.625	0.08	Phenol
10.783	132332	78418	0.593	0.04	
10.912	305723	172244	0.563	0.09	Silane, dimethylbis[(t
10.998	68034	27607	0.406	0.02	
11.041	21660	13545	0.625	0.01	
11.134	197170	76056	0.386	0.06	
11.321	1813964	927875	0.512	0.52	UNKNOWN
11.571	343988	196779	0.572	0.10	1,5-Dioxa-2,4,6,8-tetr
11.679	55858	32194	0.576	0.02	
12.080	34079	13800	0.405	0.01	
12.209	32240	17845	0.554	0.01	
12.266	20980	10603	0.505	0.01	
12.395	114330	56094	0.491	0.03	
12.495	99307	52021	0.524	0.03	
12.617	87844	35429	0.403	0.03	
12.725	80186	25537	0.318	0.02	
12.810	40029	18212	0.455	0.01	
	350376791	136904348		100.000	

Total unknown % area = 95.500

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/27may10.b/3052724.d
Lab Smp Id: 1005453A-02A
Inj Date : 27-MAY-2010 23:35
Operator : ww Inst ID: msd3.i
Smp Info : 200mL #13667
Misc Info : 9.0"Hg-5psi
Comment :
Method : /var/chem/msd3.i/27may10.b/310q0520a.m
Meth Date : 27-May-2010 10:51 abarton Quant Type: AREA%
Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
Als bottle: 1
Dil Factor: 1.91000
Integrator: HP RTE Compound Sublist: TO15.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.213	109933341	42706817	0.388	32.66	Butanoic acid, heptafl
1.269	34229083	11438381	0.334	10.18	UNKNOWN
1.395	5276136	1736632	0.329	1.57	UNKNOWN
1.450	3238910	1276957	0.394	0.96	11 Chloromethane
1.548	1883126	835032	0.443	0.56	1-Propene, 2-methyl-
1.618	549043	188904	0.344	0.16	
1.730	11051785	3909039	0.354	3.29	
1.856	39637629	14275578	0.360	11.79	
1.996	756433	257657	0.341	0.22	24 Chloroethane
2.152	271324	98510	0.363	0.08	UNKNOWN
2.188	165524	75629	0.457	0.05	
2.238	456748	142045	0.311	0.14	42 Pentane
2.367	63082	22166	0.351	0.02	
2.481	138571	47430	0.342	0.04	
2.546	181363	47118	0.260	0.05	
2.667	220508	62853	0.285	0.07	
2.725	56944	54560	0.958	0.02	
2.818	140931	57843	0.410	0.04	34 Acetone
2.933	24017	8520	0.355	0.01	
3.097	86491	35210	0.407	0.03	
3.133	304911	88281	0.290	0.09	UNKNOWN
3.198	353622	96786	0.274	0.11	UNKNOWN
3.298	1128970	416209	0.369	0.34	43 Methylene Chloride
3.470	105378	32748	0.311	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.685	100505	36277	0.361	0.03	
3.756	105734	33094	0.313	0.03	51 Hexane
3.985	67212	27359	0.407	0.02	
4.071	159938	61678	0.386	0.05	
4.150	55201	19678	0.356	0.02	
4.186	69880	22600	0.323	0.02	
4.286	155626	34719	0.223	0.05	
4.379	98256	28444	0.289	0.03	
4.444	147867	45353	0.307	0.04	
4.559	594784	211042	0.355	0.18	UNKNOWN
4.637	158470	55514	0.350	0.05	74 2-Butanone
4.716	131686	39774	0.302	0.04	
4.795	182869	78250	0.428	0.05	
4.838	1444639	752952	0.521	0.43	* 76 Bromochloromethane
4.910	92768	35466	0.382	0.03	
4.960	58742	27577	0.469	0.02	
5.038	123617	38109	0.308	0.04	
5.203	93215791	30047042	0.322	27.72	
5.382	2065823	623441	0.302	0.61	\$ 89 1,2-Dichloroethane-d4
5.518	210346	64107	0.305	0.06	
5.612	41679	17666	0.424	0.01	
5.669	45292	18566	0.410	0.01	
5.748	1898658	1098870	0.579	0.56	* 97 1,4-Difluorobenzene
5.826	43275	17465	0.404	0.01	
5.891	32846	11456	0.349	0.01	
6.041	43107	17332	0.402	0.01	
6.228	60343	27207	0.451	0.02	
6.356	43982	20358	0.463	0.01	
6.514	27342	11694	0.428	0.01	
6.586	41215	16486	0.400	0.01	
6.822	242841	104472	0.430	0.07	
6.915	469115	225785	0.481	0.14	UNKNOWN
6.980	2032597	1300055	0.640	0.60	\$ 115 Toluene-d8
7.037	97407	43702	0.449	0.03	116 Toluene
7.273	4855653	2347230	0.483	1.44	
7.374	160222	74895	0.467	0.05	
7.452	25733	9555	0.371	0.01	
7.660	714688	457968	0.641	0.21	UNKNOWN
7.696	155692	79494	0.511	0.05	
7.803	58144	27198	0.468	0.02	
7.961	2277750	1196148	0.525	0.68	Trisiloxane, octamethy
8.219	2051306	1413436	0.689	0.61	* 144 Chlorobenzene-d5
8.398	33635	22989	0.683	0.01	
8.598	75979	36044	0.474	0.02	
8.699	36058	16955	0.470	0.01	
8.749	32852	16564	0.504	0.01	
9.057	218373	103171	0.472	0.06	
9.215	2283917	1509517	0.661	0.68	\$ 159 Bromofluorobenzene
9.487	2875370	1592411	0.554	0.86	UNKNOWN
9.709	1247619	687831	0.551	0.37	1-Oxa-2,4,6-trisilacyc

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.845	33721	15043	0.446	0.01	
9.945	86622	39055	0.451	0.03	
10.053	46798	18730	0.400	0.01	
10.160	56565	32393	0.573	0.02	
10.310	301317	132200	0.439	0.09	1-Hexanol, 2-ethyl-
10.454	42006	26210	0.624	0.01	
10.568	71182	35677	0.501	0.02	
10.783	151708	86380	0.569	0.05	
10.912	325256	201493	0.619	0.10	Silane, dimethylbis[(t
11.005	78364	26990	0.344	0.02	
11.141	151737	46092	0.304	0.05	
11.263	35762	19355	0.541	0.01	
11.328	1402574	685646	0.489	0.42	1,5-Dioxa-2,4,6,8-tetr
11.485	45955	15842	0.345	0.01	
11.578	321972	163905	0.509	0.10	1,5-Dioxa-2,4,6,8-tetr
11.679	69686	32979	0.473	0.02	
11.843	45923	16518	0.360	0.01	
11.994	37262	19984	0.536	0.01	
12.108	223357	58063	0.260	0.07	
12.159	153521	66400	0.433	0.05	
12.201	402965	87482	0.217	0.12	UNKNOWN
12.266	253473	67754	0.267	0.08	UNKNOWN
12.395	50983	21842	0.428	0.02	
12.495	69285	31030	0.448	0.02	
12.617	30026	17168	0.572	0.01	
12.724	50582	16709	0.330	0.02	
	336254919	124696841		100.000	

Total unknown % area = 94.840

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/27may10.b/3052725.d
Lab Smp Id: 1005453A-03A
Inj Date : 27-MAY-2010 23:59
Operator : ww
Smp Info : 200mL #33382
Misc Info : 8.4"Hg-5psi
Comment :
Method : /var/chem/msd3.i/27may10.b/310q0520a.m
Meth Date : 27-May-2010 10:51 abarton
Cal Date : 21-MAY-2010 17:00
Als bottle: 1
Dil Factor: 1.86000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore

Inst ID: msd3.i
Quant Type: AREA%
Cal File: 3052104.d
Compound Sublist: TO15.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.213	43633748	19848169	0.455	32.69	1-Propene, 1,1,2,3,3,3
1.269	10669278	4128047	0.387	7.98	UNKNOWN
1.409	2166855	536567	0.248	1.62	1-Propyne
1.493	188988	80569	0.426	0.14	11 Chloromethane
1.549	450987	206494	0.458	0.34	1-Propene, 2-methyl-
1.605	127186	45071	0.354	0.10	
1.730	1904482	475351	0.250	1.42	
1.856	12378199	4834534	0.391	9.26	Silane, tetramethyl-
1.996	210652	57319	0.272	0.16	24 Chloroethane
2.145	252625	62480	0.247	0.19	UNKNOWN
2.238	136158	42193	0.310	0.10	42 Pentane
2.403	15874	7185	0.453	0.01	
2.546	15052	8792	0.584	0.01	
2.668	53545	19088	0.356	0.04	
2.725	24209	12426	0.513	0.02	
2.818	197067	75478	0.383	0.15	34 Acetone
3.097	12342	6421	0.520	0.01	
3.155	85650	31430	0.367	0.06	
3.198	137463	34729	0.253	0.10	UNKNOWN
3.298	176241	58865	0.334	0.13	43 Methylene Chloride
3.477	19279	6636	0.344	0.01	
3.685	35680	13227	0.371	0.03	
3.771	39296	11678	0.297	0.03	
4.000	19441	9580	0.493	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.079	110958	52001	0.469	0.08	UNKNOWN
4.150	30445	12936	0.425	0.02	
4.458	28916	15162	0.524	0.02	
4.559	5866002	2673777	0.456	4.39	UNKNOWN
4.645	133608	45018	0.337	0.10	74 2-Butanone
4.723	76419	22750	0.298	0.06	
4.852	1313195	687737	0.524	0.98	* 76 Bromochloromethane
4.924	54177	22209	0.410	0.04	
4.974	35279	12001	0.340	0.03	
5.053	14324	7633	0.533	0.01	
5.218	36397727	12688649	0.349	27.23	
5.397	1281639	525571	0.410	0.96	\$ 89 1,2-Dichloroethane-d4
5.554	85790	26007	0.303	0.06	
5.676	11692	6736	0.576	0.01	
5.762	1781358	1080634	0.607	1.33	* 97 1,4-Difluorobenzene
6.249	30534	16169	0.530	0.02	
6.364	13866	7315	0.528	0.01	
6.521	14958	7173	0.480	0.01	
6.607	24365	8472	0.348	0.02	
6.844	105025	34375	0.327	0.08	
6.930	49872	24556	0.492	0.04	
7.001	2032646	1271755	0.626	1.52	\$ 115 Toluene-d8
7.051	25032	12635	0.505	0.02	
7.295	1946893	923501	0.474	1.46	
7.374	148890	45304	0.304	0.11	UNKNOWN
7.632	11103	6668	0.601	0.01	
7.675	353993	195671	0.553	0.26	UNKNOWN
7.718	96965	56931	0.587	0.07	
7.818	19322	7858	0.407	0.01	
7.983	790522	415665	0.526	0.59	Trisiloxane, octamethy
8.240	2068490	1437790	0.695	1.55	* 144 Chlorobenzene-d5
8.355	18500	9224	0.499	0.01	
8.620	833386	461405	0.554	0.62	1,3-Dioxa-2,4,6-trisil
8.713	16266	8373	0.515	0.01	
8.957	46990	29836	0.635	0.04	
9.079	55542	30645	0.552	0.04	
9.200	231763	141674	0.611	0.17	Cyclotetrasiloxane, oc
9.236	2292994	1505775	0.657	1.72	\$ 159 Bromofluorobenzene
9.344	10407	6228	0.598	0.01	
9.501	847915	464623	0.548	0.63	UNKNOWN
9.580	13763	7595	0.552	0.01	
9.730	427993	221866	0.518	0.32	1-Oxa-2,4,6-trisilacyc
9.917	68570	17965	0.262	0.05	
9.952	22068	10246	0.464	0.02	
10.060	11630	9489	0.816	0.01	
10.332	100915	36227	0.359	0.08	
10.447	16496	8004	0.485	0.01	
10.468	17347	9309	0.537	0.01	
10.583	32887	17703	0.538	0.02	
10.740	18984	6843	0.360	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.805	54589	27930	0.512	0.04	
10.927	110345	62834	0.569	0.08	
11.156	52017	18276	0.351	0.04	
11.342	181477	73018	0.402	0.14	UNKNOWN
11.471	11709	6815	0.582	0.01	
11.593	79454	41961	0.528	0.06	
11.700	19864	11072	0.557	0.01	
12.216	12325	6542	0.531	0.01	
12.295	22432	12029	0.536	0.02	
12.316	15678	7720	0.492	0.01	
12.409	12636	6918	0.547	0.01	
12.517	34604	11874	0.343	0.03	
12.653	16030	9062	0.565	0.01	
12.746	21855	11400	0.522	0.02	
12.839	15236	5849	0.384	0.01	
	133648965	56279318		100.000	

Total unknown % area = 91.260

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/27may10.b/3052726.d
Lab Smp Id: 1005453A-04A
Inj Date : 28-MAY-2010 01:11
Operator : ww
Smp Info : 200mL #5743
Misc Info : 14.0"Hg-5psi
Comment :
Method : /var/chem/msd3.i/27may10.b/310q0520a.m
Meth Date : 27-May-2010 10:51 abarton
Cal Date : 21-MAY-2010 17:00
Als bottle: 1
Dil Factor: 2.51000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore

Inst ID: msd3.i
Quant Type: AREA%
Cal File: 3052104.d
Compound Sublist: TO15.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.213	130470189	44999408	0.345	50.75	Butanoic acid, heptafl
1.269	44747614	17017675	0.380	17.41	UNKNOWN
1.381	2175454	860057	0.395	0.85	UNKNOWN
1.437	3809207	1425844	0.374	1.48	UNKNOWN
1.549	360974	161781	0.448	0.14	11 Chloromethane
1.618	131489	48790	0.371	0.05	
1.730	6522751	2112109	0.324	2.54	
1.856	13420299	5215845	0.389	5.22	Silane, tetramethyl-
1.996	161552	36557	0.226	0.06	
2.238	97169	33724	0.347	0.04	
2.352	53973	24016	0.445	0.02	
2.367	69931	24310	0.348	0.03	29 Ethanol
2.474	25971	8471	0.326	0.01	
2.632	196651	52327	0.266	0.08	UNKNOWN
2.653	112905	52601	0.466	0.04	
2.725	134659	77110	0.573	0.05	UNKNOWN
2.811	491444	199693	0.406	0.19	34 Acetone
2.954	32974	11375	0.345	0.01	
3.212	99942	26817	0.268	0.04	
3.298	1370055	592975	0.433	0.53	43 Methylene Chloride
3.405	40538	16850	0.416	0.02	
3.685	32282	10316	0.320	0.01	
3.771	76083	20188	0.265	0.03	
4.000	18356	8020	0.437	0.01	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.079	1167457	551367	0.472	0.45	
4.157	33058	17098	0.517	0.01	
4.193	91486	26885	0.294	0.04	
4.458	171947	81463	0.474	0.07	70 Butanal
4.566	433099	165256	0.382	0.17	Silanol, trimethyl-
4.645	253766	122748	0.484	0.10	74 2-Butanone
4.809	89927	32563	0.362	0.03	
4.852	1503780	830287	0.552	0.59	* 76 Bromochloromethane
4.917	323309	166128	0.514	0.13	UNKNOWN
5.046	23532	9205	0.391	0.01	
5.218	29979407	10787018	0.360	11.67	
5.397	1116639	526044	0.471	0.43	\$ 89 1,2-Dichloroethane-d4
5.483	224016	81987	0.366	0.09	Acetic acid
5.554	98261	40518	0.412	0.04	
5.626	44909	17117	0.381	0.02	
5.690	33388	14005	0.419	0.01	
5.762	1855098	1103646	0.595	0.72	* 97 1,4-Difluorobenzene
5.841	63784	30777	0.483	0.02	
5.912	48902	16555	0.339	0.02	
6.056	27912	10508	0.376	0.01	
6.163	58969	32750	0.555	0.02	
6.249	159276	98089	0.616	0.06	60 Pentanal
6.371	71017	33323	0.469	0.03	
6.844	80015	32084	0.401	0.03	
6.930	472114	242582	0.514	0.18	
7.001	2141300	1329832	0.621	0.83	\$ 115 Toluene-d8
7.051	106702	53911	0.505	0.04	116 Toluene
7.295	1973251	927653	0.470	0.77	
7.381	120704	38381	0.318	0.05	
7.632	19485	14544	0.746	0.01	
7.675	115927	75464	0.651	0.05	
7.718	255721	157503	0.616	0.10	UNKNOWN
7.818	65616	20175	0.307	0.03	
7.925	13652	8820	0.646	0.01	
7.975	460262	243738	0.530	0.18	Trisiloxane, octamethy
8.183	18519	7078	0.382	0.01	
8.240	2156965	1447498	0.671	0.84	* 144 Chlorobenzene-d5
8.319	55623	26207	0.471	0.02	
8.355	71344	29900	0.419	0.03	
8.420	121262	52503	0.433	0.05	
8.491	31560	13384	0.424	0.01	
8.620	172761	65209	0.377	0.07	1,3-Dioxa-2,4,6-trisil
8.713	17580	11468	0.652	0.01	
8.778	127975	79933	0.625	0.05	
8.864	47903	23254	0.485	0.02	
8.957	88053	59581	0.677	0.03	
9.007	25742	19671	0.764	0.01	
9.071	13256	8174	0.617	0.01	
9.114	85783	37065	0.432	0.03	
9.236	2510042	1559536	0.621	0.98	\$ 159 Bromofluorobenzene

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.279	77156	30719	0.398	0.03	
9.401	31862	14505	0.455	0.01	
9.501	987949	399278	0.404	0.38	UNKNOWN
9.573	39348	20417	0.519	0.02	
9.637	19047	10000	0.525	0.01	
9.730	578773	237132	0.410	0.23	1-Oxa-2,4,6-trisilacyc
9.859	75693	38085	0.503	0.03	
9.967	214338	105668	0.493	0.08	Butane, 2-iodo-2-methy
10.053	75012	41388	0.552	0.03	
10.096	32287	24303	0.753	0.01	
10.146	24147	10514	0.435	0.01	
10.174	223364	119571	0.535	0.09	Decane, 2,2,6-trimethy
10.354	139744	52746	0.377	0.05	
10.468	102798	53890	0.524	0.04	
10.583	37123	22714	0.612	0.01	
10.676	23454	12573	0.536	0.01	
10.733	31039	12424	0.400	0.01	
10.805	58425	22711	0.389	0.02	
10.934	66994	37803	0.564	0.03	
11.048	35399	12732	0.360	0.01	
11.141	28593	17270	0.604	0.01	
11.342	85227	38108	0.447	0.03	
11.385	49337	29367	0.595	0.02	
11.593	19093	9833	0.515	0.01	
11.858	19521	9010	0.462	0.01	
12.288	29340	12666	0.432	0.01	
	256999579	95812771		100.000	

Total unknown % area = 94.580

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/27may10.b/3052727.d
 Lab Smp Id: 1005453A-05A
 Inj Date : 28-MAY-2010 01:39
 Operator : ww Inst ID: msd3.i
 Smp Info : 200mL #34725
 Misc Info : 8.6"Hg-5psi
 Comment :
 Method : /var/chem/msd3.i/27may10.b/310q0520a.m
 Meth Date : 27-May-2010 10:51 abarton Quant Type: AREA%
 Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
 Als bottle: 1
 Dil Factor: 1.88000
 Integrator: HP RTE Compound Sublist: TO15.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.213	49451852	21525141	0.435	30.08	Butanoic acid, heptafl
1.269	12450009	4824871	0.388	7.57	6 Propylene
1.409	1241855	573609	0.462	0.76	1-Propyne
1.437	1206305	454607	0.377	0.73	Propane, 2-methyl-
1.492	262335	106449	0.406	0.16	11 Chloromethane
1.548	480035	177694	0.370	0.29	13 Butane
1.618	197740	70637	0.357	0.12	
1.730	4467799	1313566	0.294	2.72	
1.856	19052788	7288207	0.383	11.59	Silane, tetramethyl-
1.996	230662	67952	0.295	0.14	24 Chloroethane
2.180	74677	21107	0.283	0.05	
2.238	133043	42054	0.316	0.08	42 Pentane
2.367	29032	10945	0.377	0.02	
2.481	39535	13674	0.346	0.02	
2.539	68569	20443	0.298	0.04	
2.653	136057	31868	0.234	0.08	UNKNOWN
2.725	39046	20944	0.536	0.02	
2.818	188777	70415	0.373	0.11	34 Acetone
3.090	23486	10834	0.461	0.01	
3.212	143250	30815	0.215	0.09	UNKNOWN
3.298	255910	89061	0.348	0.16	43 Methylene Chloride
3.477	13315	9009	0.677	0.01	46 tert-Butyl-Alcohol
3.556	20695	7701	0.372	0.01	
3.677	41981	14222	0.339	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.756	47884	14778	0.309	0.03	
4.000	25134	10485	0.417	0.02	
4.079	107057	46667	0.436	0.07	UNKNOWN
4.394	10152	4561	0.449	0.01	
4.458	64373	24463	0.380	0.04	
4.559	4825771	2053846	0.426	2.94	58 Isopropyl ether
4.716	101864	25557	0.251	0.06	74 2-Butanone
4.852	1432028	728456	0.509	0.87	* 76 Bromochloromethane
4.917	138063	53702	0.389	0.08	UNKNOWN
4.974	49263	16176	0.328	0.03	
5.053	46396	14173	0.305	0.03	
5.218	49848200	17331080	0.348	30.32	
5.397	1412807	575032	0.407	0.86	\$ 89 1,2-Dichloroethane-d4
5.497	100489	42380	0.422	0.06	92 tert-amyl-Methyl Ether
5.540	107994	35229	0.326	0.07	
5.676	11039	6829	0.619	0.01	
5.762	1872402	1120649	0.599	1.14	* 97 1,4-Difluorobenzene
5.912	12041	6091	0.506	0.01	
5.941	13090	5429	0.415	0.01	
6.242	34912	14402	0.413	0.02	
6.385	34753	12853	0.370	0.02	
6.528	15511	11558	0.745	0.01	
6.607	28449	10966	0.385	0.02	
6.707	10169	4572	0.450	0.01	
6.836	110203	47058	0.427	0.07	
6.930	106599	55648	0.522	0.06	
7.001	2086221	1316107	0.631	1.27	\$ 115 Toluene-d8
7.058	23614	12145	0.514	0.01	
7.295	2634150	1271200	0.483	1.60	
7.388	85370	37785	0.443	0.05	
7.682	30372	16639	0.548	0.02	
7.717	64125	32879	0.513	0.04	
7.825	24055	11301	0.470	0.01	
7.975	827050	436362	0.528	0.50	Trisiloxane, octamethy
8.104	17911	5970	0.333	0.01	
8.190	15532	7506	0.483	0.01	
8.240	2096121	1474642	0.704	1.28	* 144 Chlorobenzene-d5
8.391	34385	13139	0.382	0.02	
8.419	18329	10570	0.577	0.01	
8.620	657222	334247	0.509	0.40	1,3-Dioxa-2,4,6-trisil
8.957	29377	16515	0.562	0.02	
9.236	2505040	1514293	0.604	1.52	\$ 159 Bromofluorobenzene
9.501	1041536	589343	0.566	0.63	UNKNOWN
9.630	25044	9635	0.385	0.02	
9.730	601703	329538	0.548	0.37	1-Oxa-2,4,6-trisilacyc
9.959	15525	8043	0.518	0.01	
10.060	29842	20470	0.686	0.02	
10.139	10098	6908	0.684	0.01	
10.174	19273	8546	0.443	0.01	
10.346	72600	26023	0.358	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.447	35650	12671	0.355	0.02	
10.583	45693	22562	0.494	0.03	
10.805	63213	39236	0.621	0.04	
10.926	121551	71138	0.585	0.07	
11.041	39918	22385	0.561	0.02	
11.342	149818	73343	0.490	0.09	UNKNOWN
11.385	17437	14807	0.849	0.01	
11.585	27817	13820	0.497	0.02	
11.700	12688	5959	0.470	0.01	
11.829	10300	7118	0.691	0.01	
12.101	20463	11380	0.556	0.01	
12.130	18973	9674	0.510	0.01	
12.280	21367	9974	0.467	0.01	
12.739	12914	7654	0.593	0.01	
	164377690	66899992		100.000	

Total unknown % area = 81.560

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/28may10.b/3052804.d
Lab Smp Id: TPHg CCV Client Smp ID: TPHg CCV
Inj Date : 28-MAY-2010 10:29
Operator : cr Inst ID: msd3.i
Smp Info : 40mL #1936-166
Misc Info : 500ppbv (2500ppbv)
Comment :
Method : /chem/msd3.i/28may10.b/310q0520a.m
Meth Date : 28-May-2010 10:00 croush Quant Type: AREA%
Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.199	1876370	525732	0.280	3.50	
1.436	115144	66184	0.575	0.21	6 Propylene
1.548	672400	241093	0.359	1.25	13 Butane
1.632	85972	32955	0.383	0.16	
1.702	65208	26548	0.407	0.12	
1.898	27928	9512	0.341	0.05	
1.996	2500941	975027	0.390	4.66	11 Chloromethane
2.230	1022532	325580	0.318	1.91	
2.381	1057175	434949	0.411	1.97	29 Ethanol
2.474	177447	64972	0.366	0.33	
2.538	621232	224084	0.361	1.16	
2.667	301205	85924	0.285	0.56	
3.197	1487085	342695	0.230	2.77	
3.276	312706	88004	0.281	0.58	43 Methylene Chloride
3.470	558694	185288	0.332	1.04	46 tert-Butyl-Alcohol
3.677	114836	40472	0.352	0.21	
3.756	438473	177170	0.404	0.82	51 Hexane
3.878	90806	38215	0.421	0.17	
3.942	140261	65506	0.467	0.26	
3.993	297974	113817	0.382	0.56	
4.079	74266	33076	0.445	0.14	
4.143	70305	33874	0.482	0.13	
4.250	174776	76958	0.440	0.33	
4.293	269457	92331	0.343	0.50	

IS/sure: 11,621,879

Systemal: 2, 206, 379

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.387	419783	170303	0.406	0.78	
4.451	69593	29008	0.417	0.13	
4.845	1580592	707971	0.448	2.94	* 76 Bromochloromethane
4.974	622594	264633	0.425	1.16	75 Tetrahydrofuran
5.053	558628	188083	0.337	1.04	80 Cyclohexane
5.139	729253	326474	0.448	1.36	74 2-Butanone
5.368	3399930	902624	0.265	6.33	\$ 89 1,2-Dichloroethane-d4
5.461	130649	44971	0.344	0.24	
5.540	598915	311843	0.521	1.12	94 Heptane
5.590	34362	23259	0.677	0.06	
5.683	172749	62473	0.362	0.32	
5.762	2159375	1242561	0.575	4.02	* 97 1,4-Difluorobenzene
5.805	40183	26440	0.658	0.07	
5.884	93297	29795	0.319	0.17	
6.048	535049	208807	0.390	1.00	104 Methyl Cyclohexane
6.091	398656	170797	0.428	0.74	
6.149	74328	33555	0.451	0.14	
6.227	99717	40202	0.403	0.19	
6.270	38452	19722	0.513	0.07	
6.407	764451	366967	0.480	1.42	
6.521	960955	383715	0.399	1.79	
6.578	375649	184882	0.492	0.70	
6.607	144170	81991	0.569	0.27	
6.707	446755	197814	0.443	0.83	
6.836	278829	143188	0.514	0.52	
6.901	63996	29760	0.465	0.12	
7.001	2329770	1461084	0.627	4.34	\$ 115 Toluene-d8
7.051	5323192	3173897	0.596	9.94	112 cis-1,3-Dichloropropen
7.216	29254	12693	0.434	0.05	
7.323	139541	53910	0.386	0.26	
7.388	54730	24132	0.441	0.10	
7.459	58426	22912	0.392	0.11	
7.567	87576	36372	0.415	0.16	
7.710	30650	17395	0.568	0.06	
7.868	39238	21841	0.557	0.07	
7.925	154367	83232	0.539	0.29	
8.025	81362	56317	0.692	0.15	
8.240	2352437	1560004	0.663	4.38	* 144 Chlorobenzene-d5
8.319	989497	650861	0.658	1.84	140 1,2-Dibromoethane
8.355	79018	57720	0.730	0.15	
8.419	3714871	2546065	0.685	6.92	150 m,p-Xylene
8.763	1331487	869276	0.653	2.48	153 o-Xylene
9.050	123575	62347	0.505	0.23	156 Cumene
9.114	102521	48643	0.474	0.19	
9.179	25454	15825	0.622	0.05	
9.236	2467123	1681088	0.681	4.60	\$ 159 Bromofluorobenzene
9.401	311107	207342	0.666	0.58	162 Propylbenzene
9.472	1643012	776483	0.473	3.06	163 4-Ethyltoluene
9.551	552034	353149	0.640	1.03	164 1,3,5-Trimethylbenzene
9.730	454190	253528	0.558	0.85	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.873	1588461	1085970	0.684	2.96	166 1,2,4-Trimethylbenzene
9.967	79867	41008	0.513	0.15	
10.010	31885	18614	0.584	0.06	
10.081	53167	23112	0.435	0.10	
10.138	<u>25402</u>	12855	0.506	0.05 <i>hal</i>	
10.174	105421	45895	0.435	0.20	
10.239	304764	198462	0.651	0.57	
10.396	226946	88003	0.388	0.42	
10.446	353243	139169	0.394	0.66	
10.554	<u>39074</u>	24418	0.625	0.07 <i>hal</i>	
10.618	43823	27446	0.626	0.08	
10.690	84260	51834	0.615	0.16	
10.711	91808	51480	0.561	0.17	
10.776	127315	89337	0.702	0.24	
10.891	55203	22698	0.411	0.10	
11.048	44582	20422	0.458	0.08	
11.120	69103	44241	0.640	0.13	
11.170	85610	52064	0.608	0.16	
11.413	28981	19943	0.688	0.05	
11.550	84156	26116	0.310	0.16	
11.929	<u>79877</u>	40239	0.504	0.15 <i>hal</i>	
12.022	<u>57949</u>	31110	0.537	0.11 <i>hal</i>	
12.137	25972	9884	0.381	0.05	
12.180	40465	21402	0.529	0.08	176 Naphthalene
12.603	<u>55734</u>	20114	0.361	0.10 <i>hal</i>	
12.624	<u>71973</u>	18919	0.263	0.13 <i>hal</i>	
	53673573	26762675		100.000	

Total unknown % area = 28.060

$$\text{Pkg CCV} = \frac{53673573 - 2,206,379 - 11,621,879}{83,884.11} = \frac{475}{500} \% = 95.0 \%$$

✓
 CR
 05/28/10

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/28may10.b/3052806.d
 Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
 Inj Date : 28-MAY-2010 11:20
 Operator : cr Inst ID: msd3.i
 Smp Info : 200mL #917
 Misc Info : HUMID
 Comment :
 Method : /chem/msd3.i/28may10.b/310q0520a.m
 Meth Date : 28-May-2010 10:00 croush Quant Type: AREA%
 Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT10.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.199	<u>1527689</u>	435606	0.285	11.20 Sys	
1.521	<u>143114</u>	36547	0.255	1.05 Sys	
2.109	0	0	---	0.00	
2.668	<u>30494</u>	13889	0.455	0.22 Sys	
4.852	1360190	748987	0.551	9.97 *	76 Bromochloromethane
4.910	<u>18726</u>	9548	0.510	0.14 Sys	
5.397	938874	546732	0.582	6.88 \$	89 1,2-Dichloroethane-d4
5.762	2128484	1294889	0.608	15.60 *	97 1,4-Difluorobenzene
7.001	2334434	1495963	0.641	17.11 \$	115 Toluene-d8
8.240	2371402	1646867	0.694	17.38 *	144 Chlorobenzene-d5
9.236	2488495	1688690	0.679	18.25 \$	159 Bromofluorobenzene
9.501	84634	40521	0.479	0.62 CR0512810	
9.874	<u>10413</u>	5267	0.506	0.08 Sys	
11.507	<u>33573</u>	16031	0.477	0.25 hal Sys CR0512810	
11.593	<u>97611</u>	22903	0.235	0.72 hal	
11.929	<u>25136</u>	13619	0.542	0.18 hal	
12.015	<u>16765</u>	10204	0.609	0.12 hal	
12.739	<u>31699</u>	9412	0.297	0.23 Sys	
=====		=====		=====	
	13641733	8035675		100.000	

IS/surr: 11,621,879

Sys+hal: 1,935,220

Total unknown % area = 14.810

ab Blank: $\frac{13641733 - 11,621,879 - 1,935,220}{83,844.11} = 1.01 < 10$ ✓

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/28may10.b/3052807.d
Lab Smp Id: 1005453A-14A
Inj Date : 28-MAY-2010 12:05
Operator : cr
Smp Info : 200mL #34371
Misc Info : 9.8"Hg - 5psi
Comment :
Method : /chem/msd3.i/28may10.b/310q0520a.m
Meth Date : 02-Jun-2010 12:12 ejakob
Cal Date : 21-MAY-2010 17:00
Als bottle: 1
Dil Factor: 1.99000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore

Inst ID: msd3.i
Quant Type: AREA%
Cal File: 3052104.d
Compound Sublist: TO15.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.213	60725408	26094217	0.430	66.37	
1.269	17618098	7407484	0.420	19.26	
1.353	371879	134955	0.363	0.41	UNKNOWN
1.381	281365	134932	0.480	0.31	UNKNOWN
1.451	94848	34257	0.361	0.10	UNKNOWN
1.534	132679	32953	0.248	0.15	UNKNOWN
1.702	96375	30998	0.322	0.11	UNKNOWN
1.856	113103	39633	0.350	0.12	
1.968	20980	8721	0.416	0.02	
2.195	13305	5398	0.406	0.01	
2.345	22730	11404	0.502	0.02	
2.360	15569	9703	0.623	0.02	
2.675	20147	13292	0.660	0.02	
2.725	15302	11792	0.771	0.02	
2.811	58848	22626	0.384	0.06	34 Acetone
3.298	239904	103146	0.430	0.26	43 Methylene Chloride
4.458	19451	8726	0.449	0.02	
4.652	12519	6204	0.496	0.01	
4.766	18892	6989	0.370	0.02	
4.845	1331996	721020	0.541	1.46	* 76 Bromochloromethane
4.917	41503	17343	0.418	0.05	
5.210	12100	4245	0.351	0.01	
5.397	938720	545479	0.581	1.03	\$ 89 1,2-Dichloroethane-d4
5.504	26553	9822	0.370	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.626	16978	8398	0.495	0.02	
5.762	2043671	1232986	0.603	2.23	* 97 1,4-Difluorobenzene
6.249	15227	8238	0.541	0.02	
6.371	28219	11947	0.423	0.03	
7.001	2212920	1402460	0.634	2.42	\$ 115 Toluene-d8
7.051	13996	7410	0.529	0.02	
7.717	22989	14404	0.627	0.03	
8.240	2237902	1542554	0.689	2.45	* 144 Chlorobenzene-d5
8.957	16543	10097	0.610	0.02	
9.236	2355954	1590083	0.675	2.58	\$ 159 Bromofluorobenzene
9.501	94579	37167	0.393	0.10	
9.960	17828	10235	0.574	0.02	
10.053	21778	13349	0.613	0.02	
10.153	11943	5129	0.429	0.01	
10.325	24850	15963	0.642	0.03	
10.583	45351	15181	0.335	0.05	
11.034	21822	13830	0.634	0.02	
11.378	12815	8162	0.637	0.01	
11.915	17375	11311	0.651	0.02	
12.445	10925	6358	0.582	0.01	
	91485939	41380601		100.000	

Total unknown % area = 87.510

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/28may10.b/3052808.d
Lab Smp Id: 1005453A-14AA
Inj Date : 28-MAY-2010 12:28
Operator : cr
Smp Info : 200mL #34371
Misc Info : 9.8"Hg - 5psi
Comment :
Method : /chem/msd3.i/28may10.b/310q0520a.m
Meth Date : 02-Jun-2010 12:12 ejakob
Cal Date : 21-MAY-2010 17:00
Als bottle: 1
Dil Factor: 1.99000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore

Inst ID: msd3.i
Quant Type: AREA%
Cal File: 3052104.d
Compound Sublist: TO15.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.213	52946596	23510689	0.444	64.43	
1.269	16335277	6565960	0.402	19.88	
1.353	441526	162573	0.368	0.54	UNKNOWN
1.381	289754	129430	0.447	0.35	UNKNOWN
1.451	79015	35673	0.451	0.10	
1.479	253002	48962	0.194	0.31	Sulfur dioxide
1.702	78771	26456	0.336	0.10	
1.856	99429	38463	0.387	0.12	
2.360	37126	10596	0.285	0.05	
2.653	46486	16095	0.346	0.06	
2.725	16272	10586	0.651	0.02	
2.811	51998	19668	0.378	0.06	34 Acetone
3.298	206039	95107	0.462	0.25	43 Methylene Chloride
3.405	11921	4817	0.404	0.01	
4.458	13941	6890	0.494	0.02	
4.645	16062	6657	0.414	0.02	
4.852	1219685	666825	0.547	1.48	* 76 Bromochloromethane
4.917	33113	14545	0.439	0.04	
5.397	867387	506480	0.584	1.06	\$ 89 1,2-Dichloroethane-d4
5.497	38992	15014	0.385	0.05	
5.619	22222	8726	0.393	0.03	
5.762	1946741	1149973	0.591	2.37	* 97 1,4-Difluorobenzene
6.249	14698	8866	0.603	0.02	
6.378	31245	11376	0.364	0.04	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.001	2175186	1360544	0.625	2.65	\$ 115 Toluene-d8
7.302	10675	4107	0.385	0.01	
7.718	22027	15288	0.694	0.03	
8.240	2182323	1511004	0.692	2.66	* 144 Chlorobenzene-d5
8.957	12567	8110	0.645	0.02	
9.236	2333645	1576966	0.676	2.84	\$ 159 Bromofluorobenzene
9.501	81656	32812	0.402	0.10	
9.580	11016	7438	0.675	0.01	
9.960	17257	9429	0.546	0.02	
10.053	22203	13259	0.597	0.03	
10.325	28486	15380	0.540	0.03	
10.583	32029	15304	0.478	0.04	
11.041	23058	13290	0.576	0.03	
11.149	11267	4686	0.416	0.01	
11.392	18465	8392	0.454	0.02	
11.929	26980	8332	0.309	0.03	
12.101	34906	15665	0.449	0.04	
12.280	20405	9873	0.484	0.02	
	82161446	37700306		100.000	

Total unknown % area = 86.630

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/28may10.b/3052809.d
Lab Smp Id: 1005453A-15A
Inj Date : 28-MAY-2010 14:05
Operator : cr
Smp Info : 200mL #4188
Misc Info : 10.0"Hg - 5psi
Comment :
Method : /chem/msd3.i/28may10.b/310q0520a.m
Meth Date : 02-Jun-2010 12:12 ejakob
Cal Date : 21-MAY-2010 17:00
Als bottle: 1
Dil Factor: 2.01000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore

Inst ID: msd3.i
Quant Type: AREA%
Cal File: 3052104.d
Compound Sublist: TO15.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.213	34902180	15171244	0.435	61.06	
1.269	9728160	4198488	0.432	17.02	
1.353	311512	76129	0.244	0.54	UNKNOWN
1.507	105178	30484	0.290	0.18	UNKNOWN
1.535	158306	38025	0.240	0.28	
1.702	90233	28853	0.320	0.16	
1.856	39300	14630	0.372	0.07	
2.668	18591	13054	0.702	0.03	
2.711	22879	10447	0.457	0.04	
2.818	59056	24694	0.418	0.10	34 Acetone
3.298	63513	26330	0.415	0.11	43 Methylene Chloride
4.458	20658	8273	0.400	0.04	
4.645	13938	6184	0.444	0.02	
4.845	1374960	752093	0.547	2.41	* 76 Bromochloromethane
4.910	50052	22954	0.459	0.09	
5.397	939288	539006	0.574	1.64	\$ 89 1,2-Dichloroethane-d4
5.504	20313	9862	0.485	0.04	
5.540	12868	6615	0.514	0.02	
5.762	2044310	1192808	0.583	3.58	* 97 1,4-Difluorobenzene
6.242	17620	7882	0.447	0.03	
6.378	12195	6774	0.555	0.02	
6.514	15264	7994	0.524	0.03	
6.994	2233778	1399024	0.626	3.91	\$ 115 Toluene-d8
7.718	29807	17852	0.599	0.05	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.240	2231891	1527456	0.684	3.90	* 144 Chlorobenzene-d5
8.957	21572	12765	0.592	0.04	
9.236	2329114	1565272	0.672	4.07	\$ 159 Bromofluorobenzene
9.501	68403	27208	0.398	0.12	
9.924	14472	9173	0.634	0.03	
10.053	33132	22395	0.676	0.06	
10.325	26093	10042	0.385	0.05	
10.447	19721	7355	0.373	0.03	
10.583	19909	12811	0.643	0.03	
11.041	54292	24758	0.456	0.09	
11.263	15563	9349	0.601	0.03	
11.385	15625	8315	0.532	0.03	
12.295	19004	8519	0.448	0.03	
12.939	11790	6338	0.538	0.02	
	57164541	26861455		100.000	

Total unknown % area = 80.280

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/28may10.b/3052810.d
 Lab Smp Id: 1005453A-16A
 Inj Date : 28-MAY-2010 14:50
 Operator : cr
 Smp Info : 200mL #35170
 Misc Info : 8.8"Hg - 5psi
 Comment :
 Method : /chem/msd3.i/28may10.b/310q0520a.m
 Meth Date : 02-Jun-2010 12:12 ejakob
 Cal Date : 21-MAY-2010 17:00
 Als bottle: 1
 Dil Factor: 1.90000
 Integrator: HP RTE
 Target Version: 3.50
 Processing Host: eeyore

Inst ID: msd3.i

Quant Type: AREA%
 Cal File: 3052104.d

Compound Sublist: TO15.sub
 Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.199	25631831	10776420	0.420	47.04	1-Propene, 1,1,2,3,3,3
1.269	8089794	3603030	0.445	14.85	
1.381	143824	65571	0.456	0.26	UNKNOWN
1.479	85238	40364	0.474	0.16	
1.563	62642	22858	0.365	0.11	
1.605	45484	16564	0.364	0.08	
1.703	55742	23645	0.424	0.10	
1.856	2070149	817040	0.395	3.80	
2.661	31337	13085	0.418	0.06	
2.818	76689	27629	0.360	0.14	34 Acetone
3.298	99076	40975	0.414	0.18	43 Methylene Chloride
4.458	14502	5115	0.353	0.03	
4.559	25852	10177	0.394	0.05	
4.652	16304	7568	0.464	0.03	
4.845	1361803	740202	0.544	2.50	* 76 Bromochloromethane
4.910	15282	7200	0.471	0.03	
5.211	1198363	439503	0.367	2.20	
5.397	929673	536320	0.577	1.71	\$ 89 1,2-Dichloroethane-d4
5.547	13756	5705	0.415	0.03	
5.762	2049592	1204507	0.588	3.76	* 97 1,4-Difluorobenzene
5.841	15992	7207	0.451	0.03	
6.242	14197	7309	0.515	0.03	
7.001	2229003	1402006	0.629	4.09	\$ 115 Toluene-d8
7.051	16608	7088	0.427	0.03	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.288	135630	68349	0.504	0.25	
7.718	31925	18795	0.589	0.06	
7.976	18810	8712	0.463	0.03	
8.241	2220790	1520317	0.685	4.08	* 144 Chlorobenzene-d5
9.236	2328668	1516499	0.651	4.27	\$ 159 Bromofluorobenzene
9.494	83156	34827	0.419	0.15	
9.738	37722	15247	0.404	0.07	
9.859	10406	5932	0.570	0.02	
10.167	16501	9926	0.602	0.03	
10.339	44721	13988	0.313	0.08	
10.440	10421	8342	0.800	0.02	
10.461	20731	10778	0.520	0.04	
10.576	82571	38245	0.463	0.15	
11.041	31832	12324	0.387	0.06	
11.908	15783	8964	0.568	0.03	
12.173	2053362	329546	0.160	3.77	1,2-Benzenedicarboxyli
12.209	853634	338932	0.397	1.57	1,2-Benzenedicarboxyli
12.238	2122579	340556	0.160	3.90	UNKNOWN
12.445	39366	18311	0.465	0.07	
12.703	27976	9344	0.334	0.05	
	54479321	24155022		100.000	

Total unknown % area = 79.270

DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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

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

Compound List

Modified TO-15 + TPHg

CAS Number	Compound	Detection Limit	Type
		ppbv	
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
75-35-4	1,1-Dichloroethene	0.50	
67-64-1	Acetone	2.0	
67-63-0	2-Propanol	2.0	
75-15-0	Carbon Disulfide	0.50	
107-05-1	3-Chloropropene	2.0	
75-09-2	Methylene Chloride	0.50	
1634-04-4	Methyl tert-butyl ether	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	
110-54-3	Hexane	0.50	
75-34-3	1,1-Dichloroethane	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	
109-99-9	Tetrahydrofuran	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
110-82-7	Cyclohexane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
540-84-1	2,2,4-Trimethylpentane	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
142-82-5	Heptane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
123-91-1	1,4-Dioxane	2.0	
75-27-4	Bromodichloromethane	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	
108-10-1	4-Methyl-2-pentanone	0.50	
108-88-3	Toluene	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	
127-18-4	Tetrachloroethene	0.50	
591-78-6	2-Hexanone	2.0	
124-48-1	Dibromochloromethane	0.50	
106-93-4	1,2-Dibromoethane (EDB)	0.50	
108-90-7	Chlorobenzene	0.50	
100-41-4	Ethyl Benzene	0.50	
108-38-3	m,p-Xylene	0.50	
95-47-6	o-Xylene	0.50	
100-42-5	Styrene	0.50	
75-25-2	Bromoform	0.50	
98-82-8	Cumene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
103-65-1	Propylbenzene	0.50	
622-96-8	4-Ethyltoluene	0.50	

Compound List

Modified TO-15 + TPHg

CAS Number	Compound	Detection Limit	Type
		ppbv	
108-67-8	1,3,5-Trimethylbenzene	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	
100-44-7	alpha-Chlorotoluene	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
9999-9999-038	TPH ref. to Gasoline (MW=100)	10	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
74-87-3	Chloromethane	2.0	
75-01-4	Vinyl Chloride	0.50	
106-99-0	1,3-Butadiene	0.50	
74-83-9	Bromomethane	0.50	
75-00-3	Chloroethane	0.50	
75-69-4	Freon 11	0.50	
64-17-5	Ethanol	2.0	
76-13-1	Freon 113	0.50	

DATA REVIEW CHECKLIST Work Order #: 1005453A

- | | | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | The final report has the correct reporting list, special units, and header info. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Non-Standard sublist printed/verified, LOQ and LOD verified |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Sample Discrepancy Report (SDR) is completed |
-
- | | | | | | | |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Corrective Action issued - # _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Unusual circumstances have been documented in the notes section below |

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

- | | | | | | | |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Lab Blank, CCV, LCS and DUP met QC criteria |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Hold time is met for all samples |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Appropriate data qualifier flags are applied |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Manual integrations for samples and QC are properly documented |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Samples analyzed within the project or method specific clock |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Retention times have been verified |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Appropriate ICAL(s) included |
-
- | | | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | At least one result per sample is verified against the target quant sheets/raw data |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s)) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Correct amount of sample analyzed (i.e. sample not over-diluted) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg) |
-
- | | | | | | | |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | TICs resemble reference spectra |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | TICs between duplicate samples are consistent |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Data for multiple analyses of sample(s) has been evaluated for comparability of results |
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- | | | | | | | |
|--------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Special units for all samples in the final report are correctly calculated |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Manually entered results checked (i.e. TPH/NMOC) |
-
- | | | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Chain of Custody scanned correctly |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Verify sample id's vs. chain of custody |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Date MDL(s) performed per instrument(s) <u>11/25/09</u> |
-
- | | | | | | | |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Samples pressurized w/ appropriate gas (<u>N₂</u> or He) <input type="checkbox"/> Other (i.e. Tedlar bag, cartridge, sorbent) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Final pressure consistent with canister size (<u>6L</u> vs. 1L) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Verify receipt pressures |
-
- | | | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Verify canister ID #'s |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.) |
-
- | | | | | | | |
|--------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Client LUMEN report reviewed for accuracy and completeness |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Final PDF report reviewed for correctness |

Notes: (to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)
A/R: MSD 3 (03/27/10) → CCV out, LCS 1 out: VC out T; TPHg CCV
MSD 3 (03/28/10) → CCV out, LCS 1 out: VC out P; TPHg CCV

M/Q: _____

A ₁ /A ₂ (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A ₁ : <u>Catherine 03/25/10</u>	R: <u>DS 6-2-10</u>	<u>James Parker 6/2/10</u>	
A ₂ : _____	T: _____		

Not Applicable



**Air
Toxics LTD.**
Laboratory Services Since 1989

Electronic Comprehensive Validation Package (eCVP)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified ASTM D-1945

INVENTORY SHEET

Work Order #: 1005453B

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Comments:

Completed by:

Kara McKiernan

Kara McKiernan / Document Control

6/4/10

(Signature)

(Print Name & Title)

(Date)

WORK ORDER #: 1005453B

Work Order Summary

CLIENT:	Ms. Melissa Kleven Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007	BILL TO:	Ms. Melissa Kleven Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007
PHONE:	425-519-8774	P.O. #	
FAX:	425-643-9827	PROJECT #	0907194.000.0601 Heglar - Kronquist
DATE RECEIVED:	05/19/2010	CONTACT:	Karen Lopez
DATE COMPLETED:	06/03/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	GV-9	Modified ASTM D-1945	9.0 "Hg	5 psi
01AA	GV-9 Lab Duplicate	Modified ASTM D-1945	9.0 "Hg	5 psi
02A	GV-10	Modified ASTM D-1945	9.0 "Hg	5 psi
03A	GV-11	Modified ASTM D-1945	8.4 "Hg	5 psi
03AA	GV-11 Lab Duplicate	Modified ASTM D-1945	8.4 "Hg	5 psi
04A(on hold)	GV-12	Modified ASTM D-1945	14.0 "Hg	5 psi
05A	GV-13	Modified ASTM D-1945	8.6 "Hg	5 psi
06A(on hold)	ALF-1	Modified ASTM D-1945	10.0 "Hg	5 psi
07A(on hold)	ALF-2	Modified ASTM D-1945	3.6 "Hg	5 psi
08A(on hold)	ALF-3	Modified ASTM D-1945	10.2 "Hg	5 psi
09A(on hold)	ALF-4	Modified ASTM D-1945	11.0 "Hg	5 psi
10A(on hold)	ALF-5	Modified ASTM D-1945	10.0 "Hg	5 psi
11A(on hold)	AOS-1	Modified ASTM D-1945	9.0 "Hg	5 psi
12A(on hold)	AOS-2	Modified ASTM D-1945	9.2 "Hg	5 psi
13A(on hold)	AOS-3	Modified ASTM D-1945	6.8 "Hg	5 psi
14A	GV-1	Modified ASTM D-1945	9.8 "Hg	5 psi
15A	GV-6	Modified ASTM D-1945	10.0 "Hg	5 psi

Continued on next page

WORK ORDER #: 1005453B

Work Order Summary

CLIENT:	Ms. Melissa Kleven Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007	BILL TO:	Ms. Melissa Kleven Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007
PHONE:	425-519-8774	P.O. #	
FAX:	425-643-9827	PROJECT #	0907194.000.0601 Heglar - Kronquist
DATE RECEIVED:	05/19/2010	CONTACT:	Karen Lopez
DATE COMPLETED:	06/03/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
16A	GV-7	Modified ASTM D-1945	8.8 "Hg	5 psi
17A	Lab Blank	Modified ASTM D-1945	NA	NA
17B	Lab Blank	Modified ASTM D-1945	NA	NA
17C	Lab Blank	Modified ASTM D-1945	NA	NA
17D	Lab Blank	Modified ASTM D-1945	NA	NA
18A	LCS	Modified ASTM D-1945	NA	NA
18B	LCS	Modified ASTM D-1945	NA	NA
18C	LCS	Modified ASTM D-1945	NA	NA
18D	LCS	Modified ASTM D-1945	NA	NA

CERTIFIED BY: 

DATE: 06/03/10

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified ASTM D-1945
Exponent
Workorder# 1005453B

Sixteen 6 Liter Summa Canister samples were received on May 19, 2010. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

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

<i>Requirement</i>	<i>ASTM D-1945</i>	<i>ATL Modifications</i>
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD <= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

Samples GV-12, ALF-1, ALF-2, ALF-3, ALF-4, ALF-5, AOS-1, AOS-2 and AOS-3 were placed on hold per the client's request.

The number of samples received did not match the information on the Chain of Custody (COC). Samples GV9, GV10 and PCB Trip Blank were not received at Air Toxics Ltd. despite notation on the COC.

Analytical Notes

Since Nitrogen is used to pressurize samples, the Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

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

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample	Sample Extract		
					Holding Time (Days)	Date Analyzed	Holding Time (Days)	Sample Condition
GV-9	1005453B-01A	5/16/2010	5/19/2010	NA	16	6/ 1/2010	NA	Good
GV-9 Lab Duplicate	1005453B-01AA	5/16/2010	5/19/2010	NA	16	6/ 1/2010	NA	Good
GV-10	1005453B-02A	5/16/2010	5/19/2010	NA	16	6/ 1/2010	NA	Good
GV-11	1005453B-03A	5/16/2010	5/19/2010	NA	17	6/ 2/2010	NA	Good
GV-11 Lab Duplicate	1005453B-03AA	5/16/2010	5/19/2010	NA	17	6/ 2/2010	NA	Good
GV-13	1005453B-05A	5/16/2010	5/19/2010	NA	16	6/ 1/2010	NA	Good
GV-1	1005453B-14A	5/16/2010	5/19/2010	NA	16	6/ 1/2010	NA	Good
GV-6	1005453B-15A	5/16/2010	5/19/2010	NA	16	6/ 1/2010	NA	Good
GV-7	1005453B-16A	5/16/2010	5/19/2010	NA	16	6/ 1/2010	NA	Good
Lab Blank	1005453B-17A	NA	NA	NA	NA	6/ 1/2010	NA	Good
Lab Blank	1005453B-17B	NA	NA	NA	NA	6/ 1/2010	NA	Good
Lab Blank	1005453B-17C	NA	NA	NA	NA	6/ 2/2010	NA	Good
Lab Blank	1005453B-17D	NA	NA	NA	NA	6/ 2/2010	NA	Good
LCS	1005453B-18A	NA	NA	NA	NA	6/ 1/2010	NA	Good
LCS	1005453B-18B	NA	NA	NA	NA	6/ 1/2010	NA	Good
LCS	1005453B-18C	NA	NA	NA	NA	6/ 2/2010	NA	Good
LCS	1005453B-18D	NA	NA	NA	NA	6/ 2/2010	NA	Good

Sample Results and Raw Data



Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: GV-9

Lab ID#: 1005453B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	13
Nitrogen	0.19	85
Methane	0.00019	0.026
Carbon Dioxide	0.019	0.41
Hydrogen	0.019	0.71
Helium	0.096	1.2

Client Sample ID: GV-9

Lab ID#: 1005453B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9060120	Date of Collection: 5/16/10 11:41:00 AM
Dil. Factor:	1.91	Date of Analysis: 6/1/10 06:17 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	13
Nitrogen	0.19	85
Carbon Monoxide	0.019	Not Detected
Methane	0.00019	0.026
Carbon Dioxide	0.019	0.41
Ethane	0.0019	Not Detected
Ethene	0.0019	Not Detected
Acetylene	0.0019	Not Detected
Propane	0.0019	Not Detected
Isobutane	0.0019	Not Detected
Butane	0.0019	Not Detected
Neopentane	0.0019	Not Detected
Isopentane	0.0019	Not Detected
Pentane	0.0019	Not Detected
C6+	0.019	Not Detected
Hydrogen	0.019	0.71
Helium	0.096	1.2

Container Type: 6 Liter Summa Canister

Air Toxics Ltd.

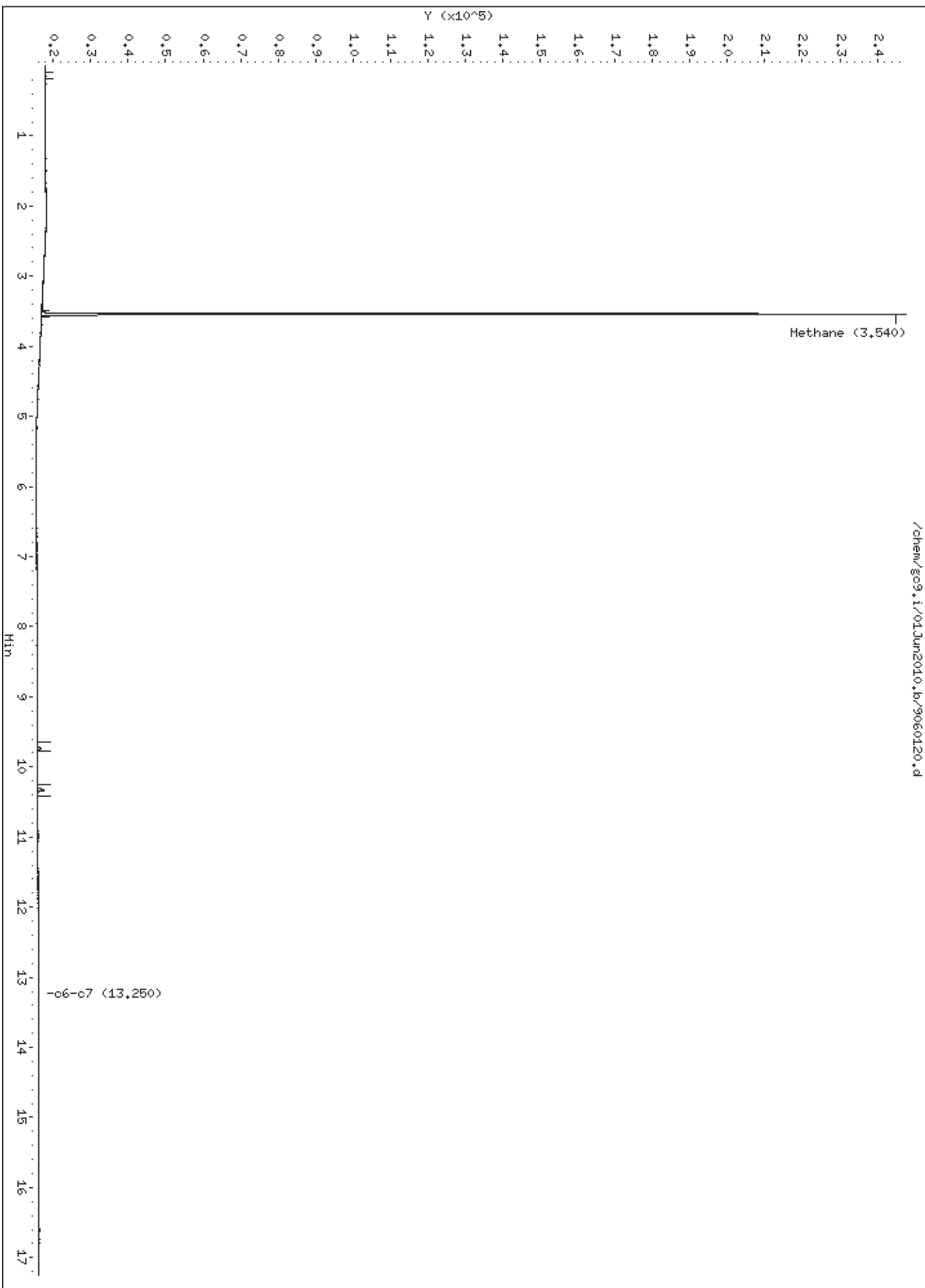
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/01Jun2010.b/9060120.d
Lab Smp Id: 1005453B-01A
Inj Date : 01-JUN-2010 18:17
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,3748
Misc Info : 9.0"Hg->5psi
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
Dil Factor: 1.91000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

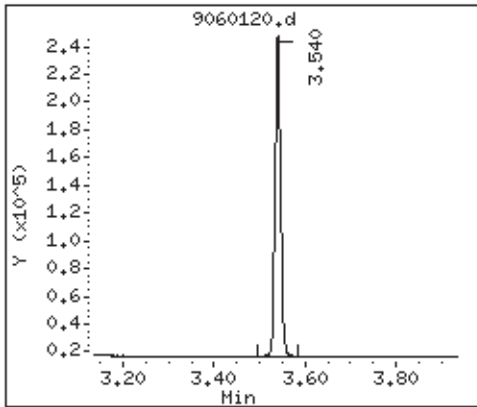
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

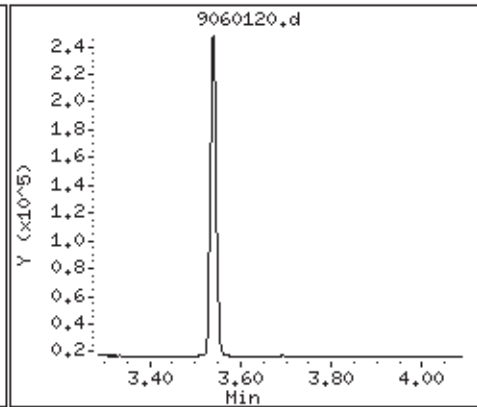
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (%)	FINAL (%)
2 Methane	3.540	3.536	0.004	2042238	0.01348	0.0257
3 ethane				Compound Not Detected.		
4 ethene				Compound Not Detected.		
5 propane				Compound Not Detected.		
7 acetylene				Compound Not Detected.		
8 iso-butane				Compound Not Detected.		
10 n-butane				Compound Not Detected.		
15 neo-pentane				Compound Not Detected.		
16 isopentane				Compound Not Detected.		
17 pentane				Compound Not Detected.		
M 37 C6+ Hydrocarbons				Compound Not Detected.		
S 22 c6-c7				Compound Not Detected.		
S 36 c8+				Compound Not Detected.		



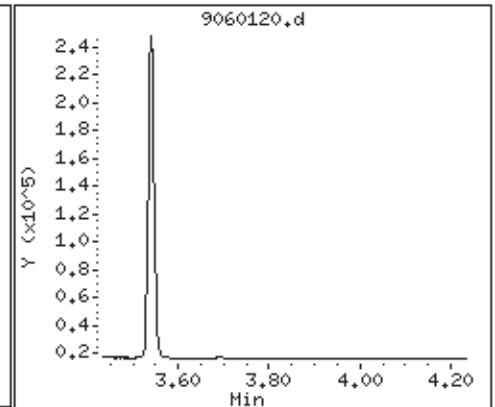
2 Methane



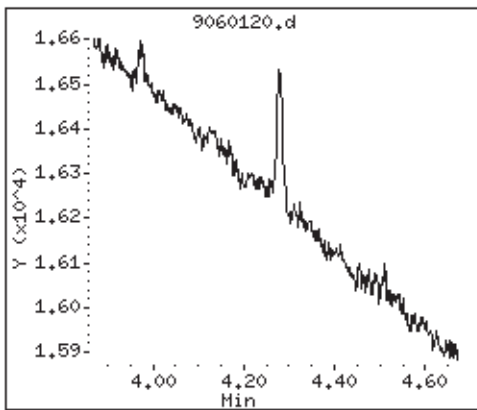
3 ethane (Undetected)



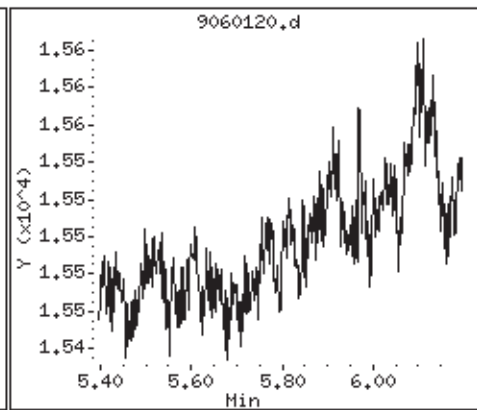
4 ethene (Undetected)



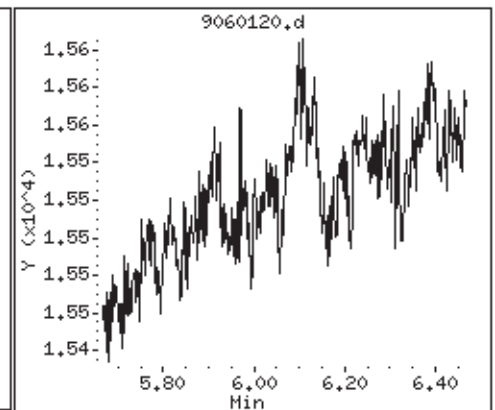
5 propane (Undetected)



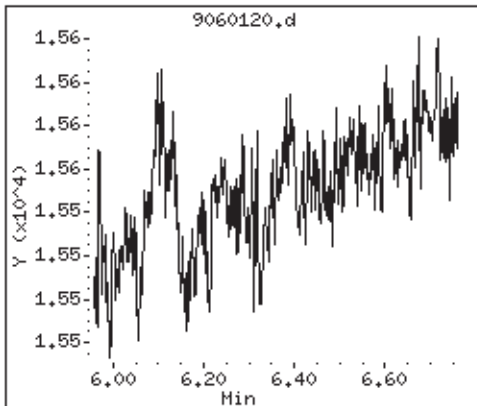
7 acetylene (Undetected)



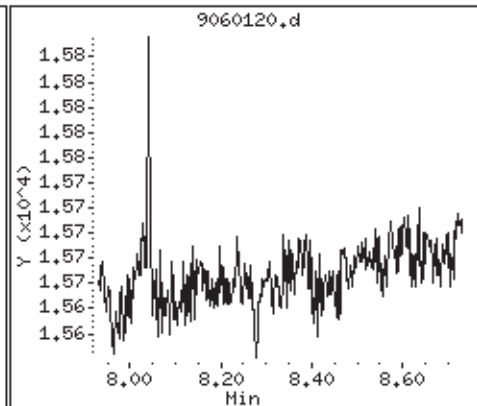
8 iso-butane (Undetected)



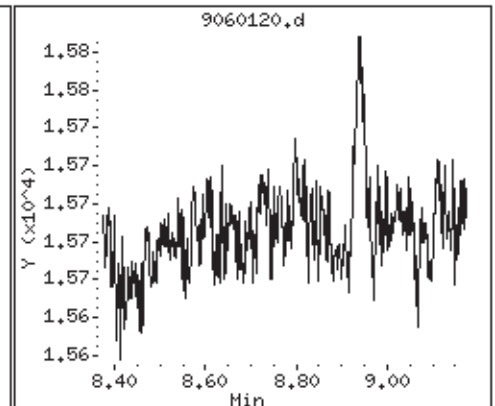
10 n-butane (Undetected)



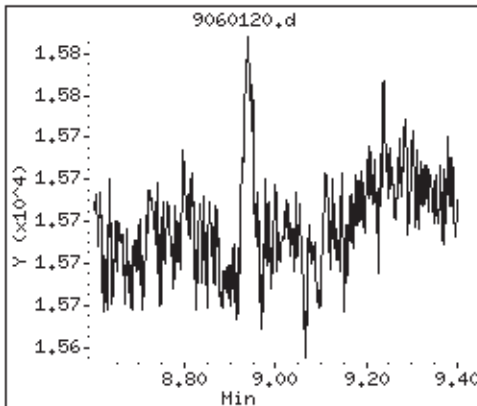
15 neo-pentane (Undetected)



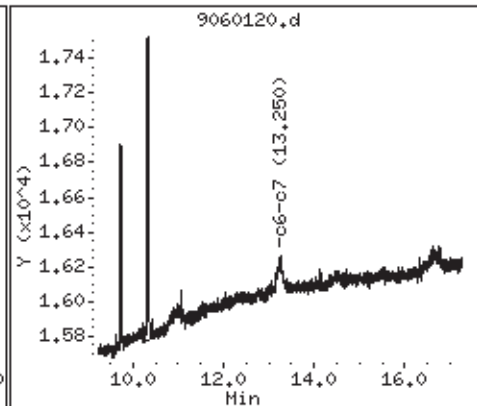
16 isopentane (Undetected)



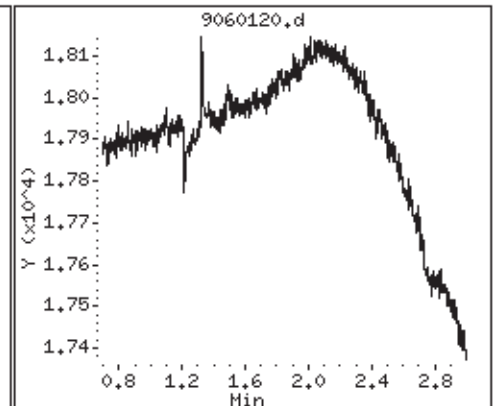
17 pentane (Undetected)



S 22 c6-c7 (Undetected)



S 36 c8+ (Undetected)



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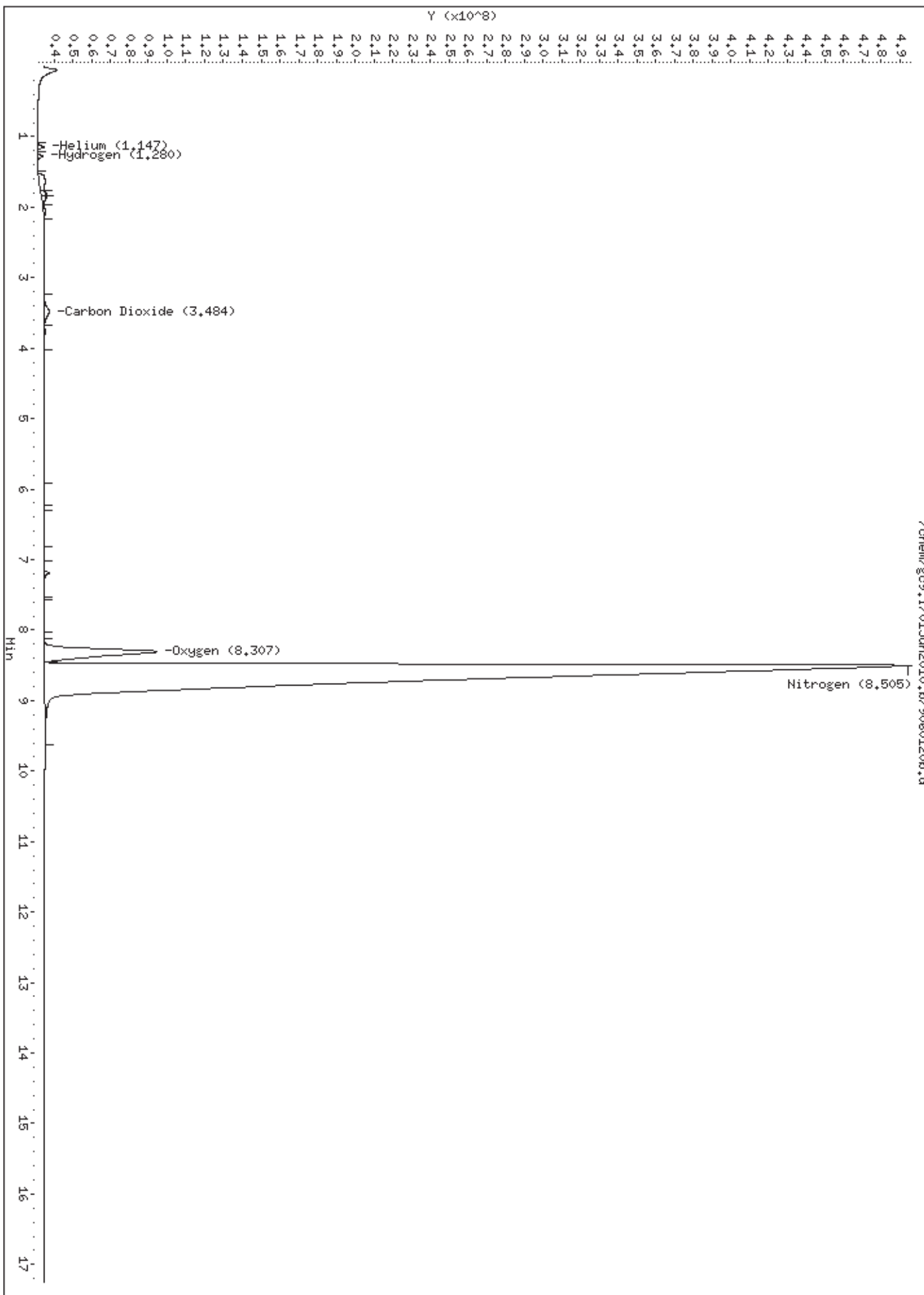
Modified ASTM D-1945

Data file : /chem/gc9.i/01Jun2010.b/9060120b.d
Lab Smp Id: 1005453B-01A
Inj Date : 01-JUN-2010 18:17
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,3748;1005453B-01A;
Misc Info : 9.0"Hg->5psi
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
Dil Factor: 1.91000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

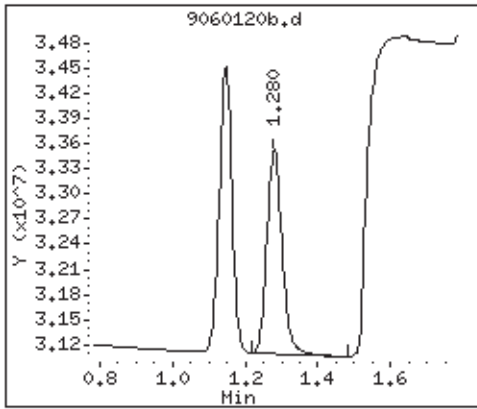
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

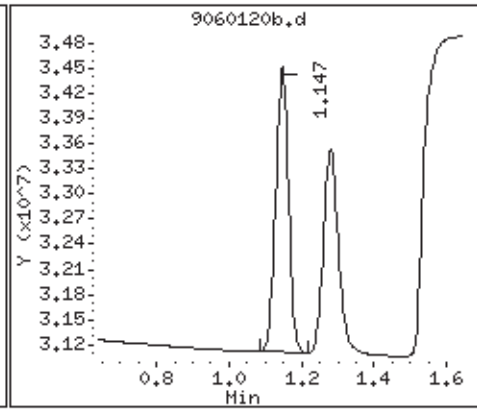
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (%)	FINAL (%)
2 Hydrogen	1.280	1.285	-0.005	35548645	0.37097	0.708
1 Helium	1.147	1.143	0.004	41606989	0.63125	1.20
3 Carbon Dioxide	3.484	3.375	0.109	109854834	0.21610	0.413
9 Oxygen	8.307	8.336	-0.029	2070114500	6.63751	12.7
10 Nitrogen	8.505	8.549	-0.044	31073063230	91.3570	174
12 Carbon Monoxide				Compound Not Detected.		



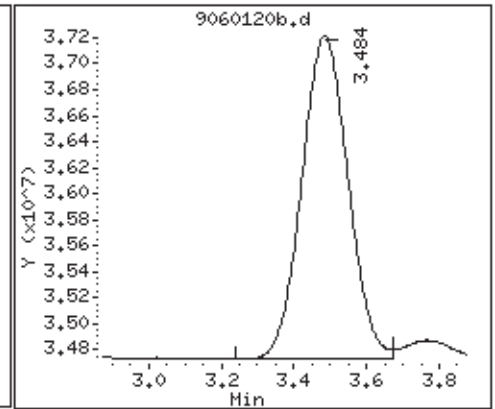
2 Hydrogen



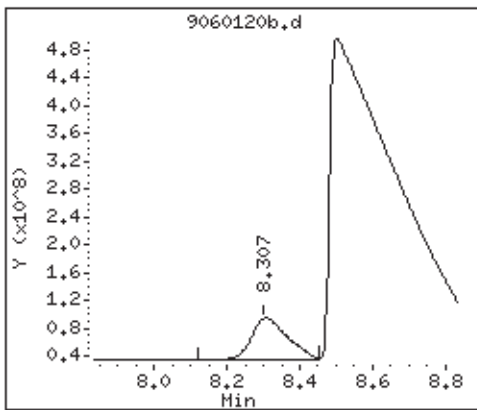
1 Helium



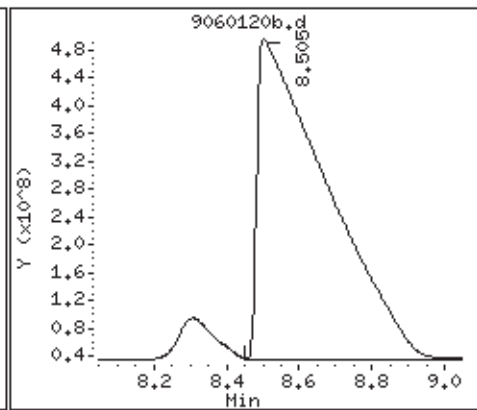
3 Carbon Dioxide



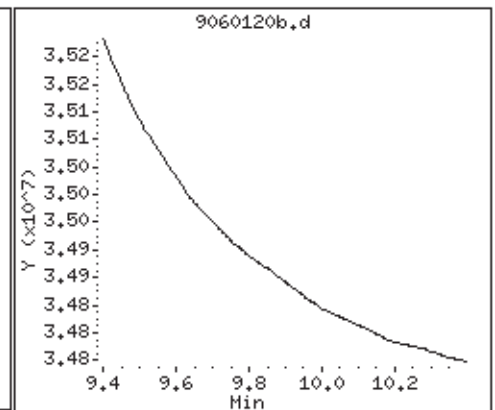
9 Oxygen



10 Nitrogen



12 Carbon Monoxide (Undete)





Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: GV-9 Lab Duplicate

Lab ID#: 1005453B-01AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	13
Nitrogen	0.19	85
Methane	0.00019	0.026
Carbon Dioxide	0.019	0.42
Hydrogen	0.019	0.71
Helium	0.096	1.2



Client Sample ID: GV-9 Lab Duplicate

Lab ID#: 1005453B-01AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9060121	Date of Collection: 5/16/10 11:41:00 AM
Dil. Factor:	1.91	Date of Analysis: 6/1/10 06:38 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	13
Nitrogen	0.19	85
Carbon Monoxide	0.019	Not Detected
Methane	0.00019	0.026
Carbon Dioxide	0.019	0.42
Ethane	0.0019	Not Detected
Ethene	0.0019	Not Detected
Acetylene	0.0019	Not Detected
Propane	0.0019	Not Detected
Isobutane	0.0019	Not Detected
Butane	0.0019	Not Detected
Neopentane	0.0019	Not Detected
Isopentane	0.0019	Not Detected
Pentane	0.0019	Not Detected
C6+	0.019	Not Detected
Hydrogen	0.019	0.71
Helium	0.096	1.2

Container Type: 6 Liter Summa Canister

Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/01Jun2010.b/9060121.d
Lab Smp Id: 1005453B-01AA
Inj Date : 01-JUN-2010 18:38
Operator : gd
Smp Info : 1.0mL,3748
Misc Info : 9.0"Hg->5psi
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
Dil Factor: 1.91000
Integrator: HP Genie
Target Version: 3.50
Processing Host: eeyore

Inst ID: gc9.i

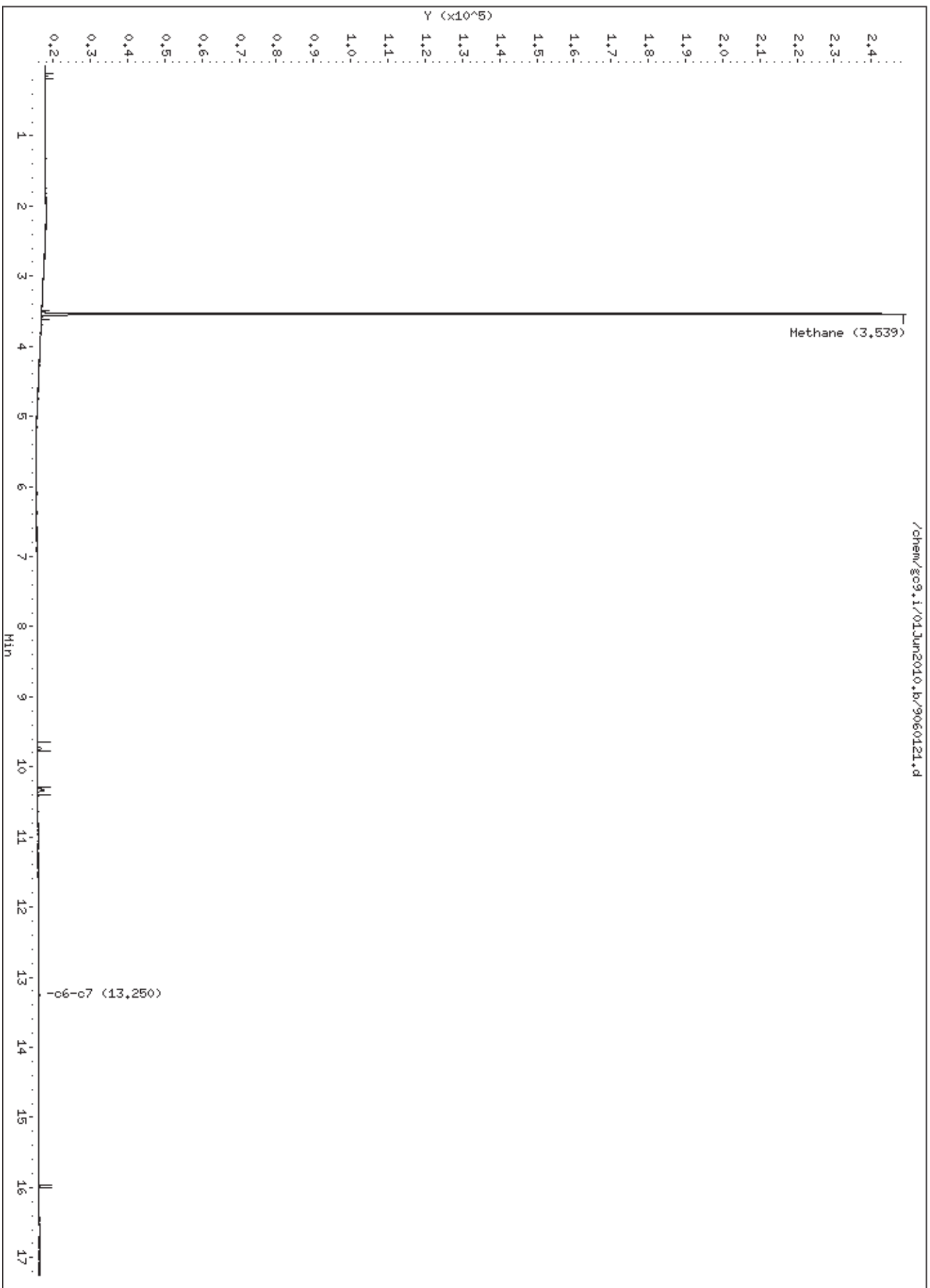
Compound Sublist: ngas.sub

Concentration Formula: Amt * DF * CpndVariable

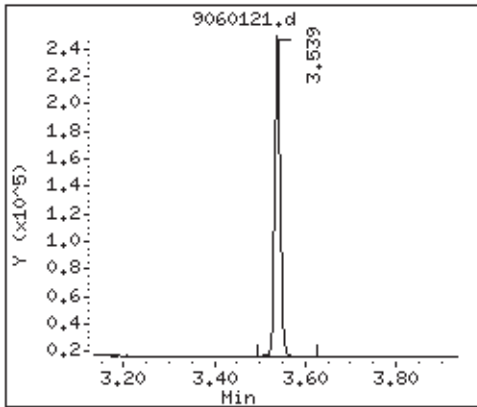
Cpnd Variable

Local Compound Variable

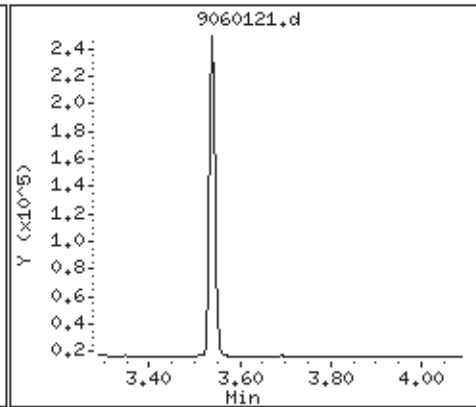
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (%)	FINAL (%)
2 Methane	3.539	3.536	0.003	2044467	0.01349	0.0258
3 ethane				Compound Not Detected.		
4 ethene				Compound Not Detected.		
5 propane				Compound Not Detected.		
7 acetylene				Compound Not Detected.		
8 iso-butane				Compound Not Detected.		
10 n-butane				Compound Not Detected.		
15 neo-pentane				Compound Not Detected.		
16 isopentane				Compound Not Detected.		
17 pentane				Compound Not Detected.		
M 37 C6+ Hydrocarbons				Compound Not Detected.		
S 22 c6-c7				Compound Not Detected.		
S 36 c8+				Compound Not Detected.		



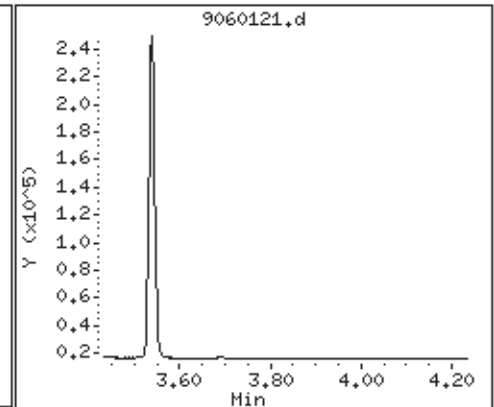
2 Methane



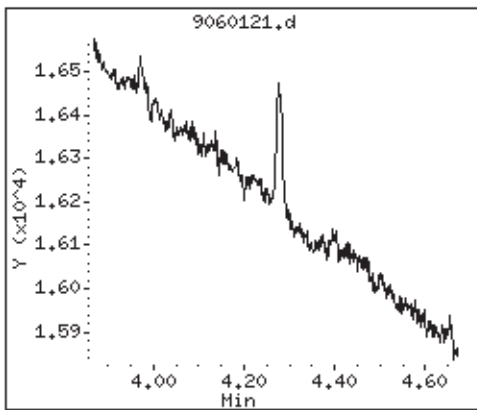
3 ethane (Undetected)



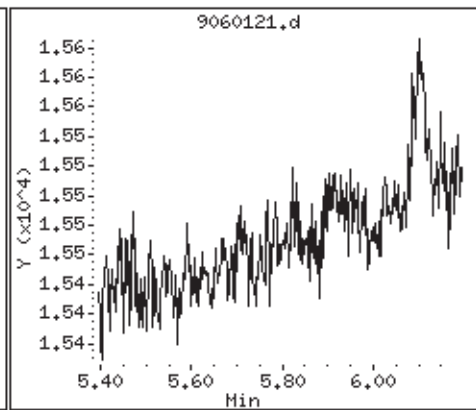
4 ethene (Undetected)



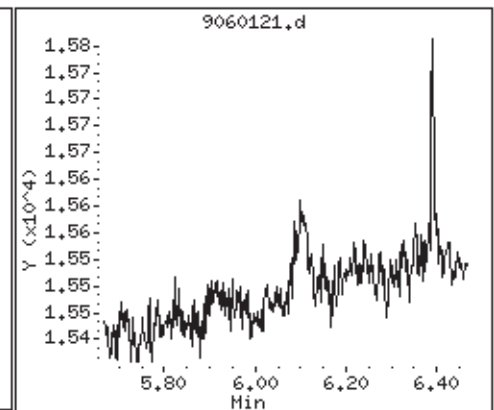
5 propane (Undetected)



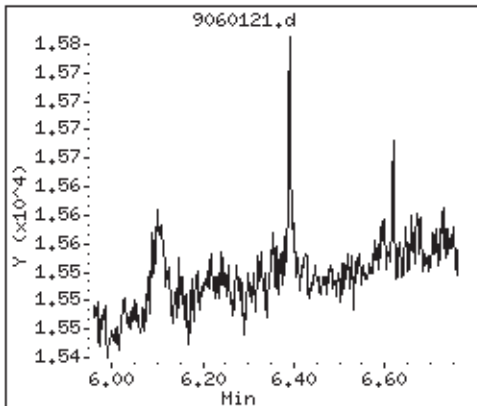
7 acetylene (Undetected)



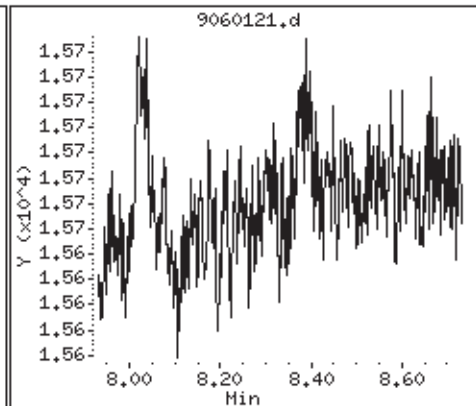
8 iso-butane (Undetected)



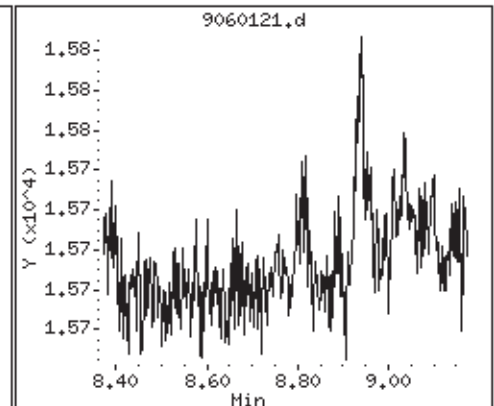
10 n-butane (Undetected)



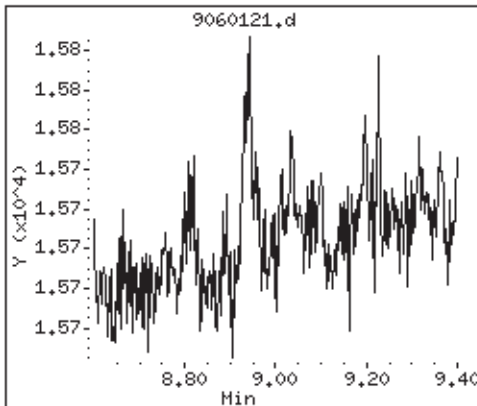
15 neo-pentane (Undetected)



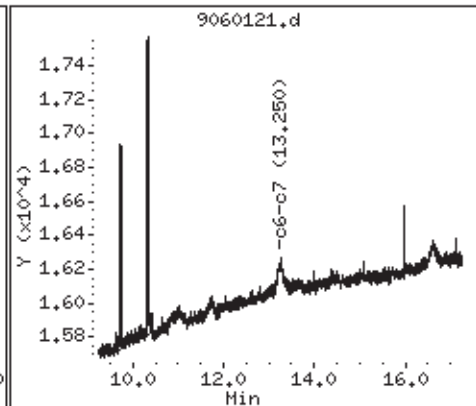
16 isopentane (Undetected)



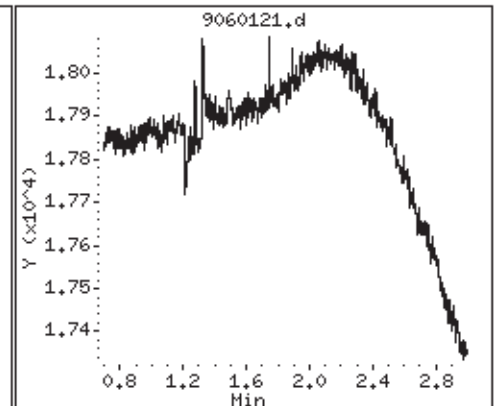
17 pentane (Undetected)



S 22 c6-c7 (Undetected)



S 36 c8+ (Undetected)



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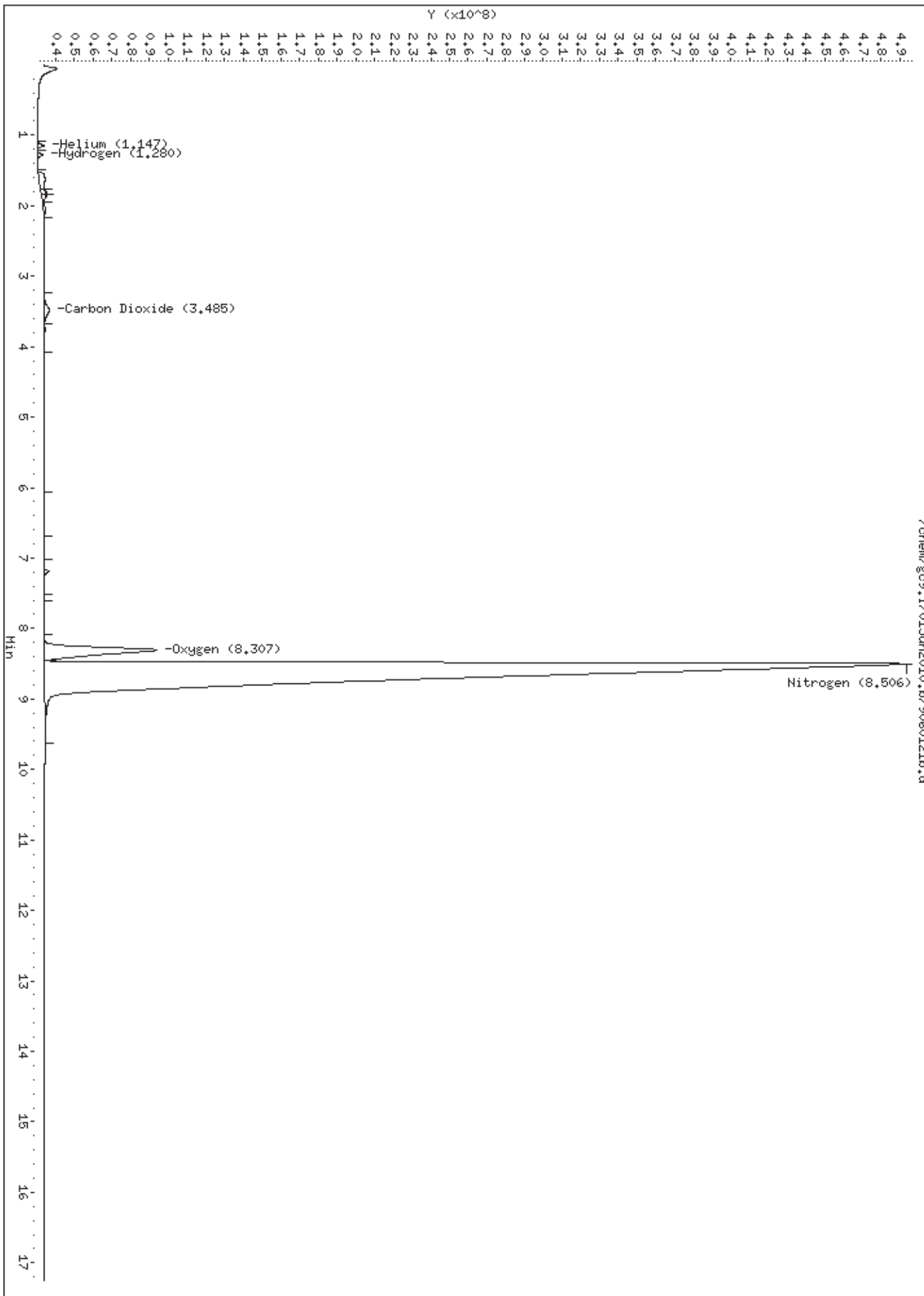
Modified ASTM D-1945

Data file : /chem/gc9.i/01Jun2010.b/9060121b.d
Lab Smp Id: 1005453B-01AA
Inj Date : 01-JUN-2010 18:38
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,3748;1005453B-01AA;
Misc Info : 9.0"Hg->5psi
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
Dil Factor: 1.91000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

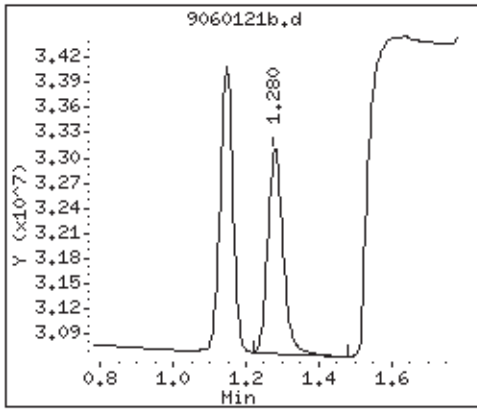
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

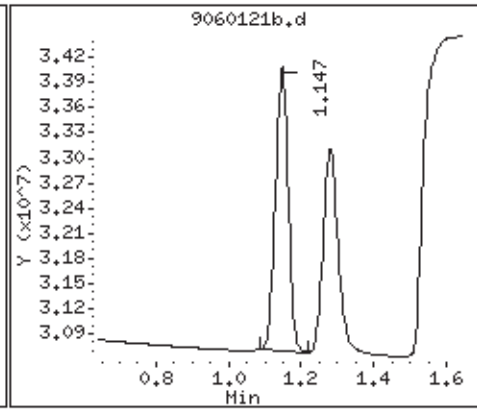
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (%)	FINAL (%)
2 Hydrogen	1.280	1.285	-0.005	35745551	0.37302	0.712
1 Helium	1.147	1.143	0.004	41681951	0.63239	1.21
3 Carbon Dioxide	3.485	3.375	0.110	111249239	0.21884	0.418
9 Oxygen	8.307	8.336	-0.029	2068838710	6.63342	12.7
10 Nitrogen	8.506	8.549	-0.043	31074951692	91.3625	174
12 Carbon Monoxide				Compound Not Detected.		



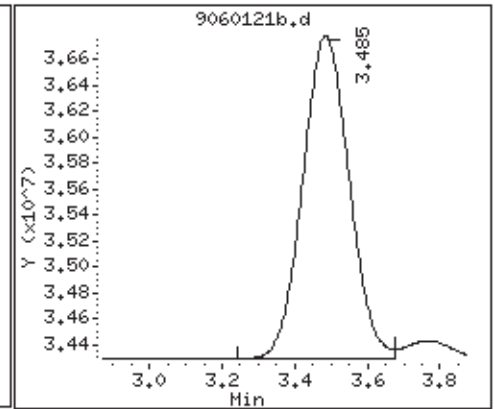
2 Hydrogen



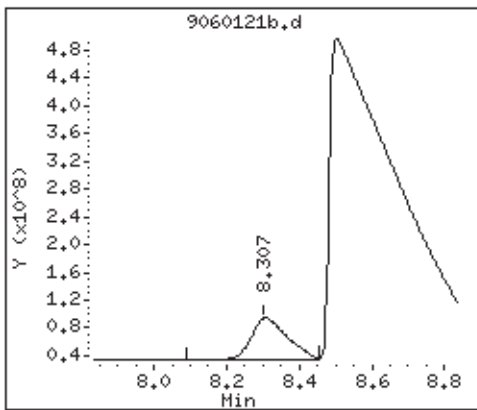
1 Helium



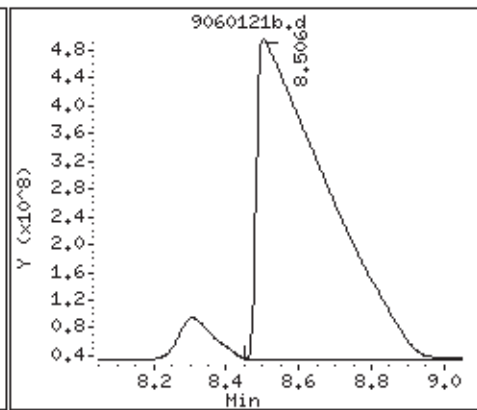
3 Carbon Dioxide



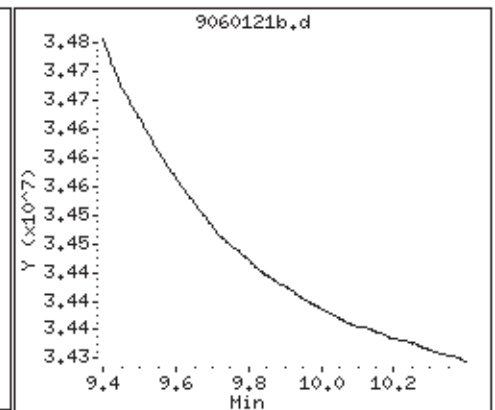
9 Oxygen



10 Nitrogen



12 Carbon Monoxide (Undete)



Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: GV-10

Lab ID#: 1005453B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	14
Nitrogen	0.19	84
Methane	0.00019	0.054
Carbon Dioxide	0.019	0.099
Hydrogen	0.019	0.72
Helium	0.096	0.91



Client Sample ID: GV-10

Lab ID#: 1005453B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9060122	Date of Collection: 5/16/10 11:42:00 AM
Dil. Factor:	1.91	Date of Analysis: 6/1/10 07:00 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	14
Nitrogen	0.19	84
Carbon Monoxide	0.019	Not Detected
Methane	0.00019	0.054
Carbon Dioxide	0.019	0.099
Ethane	0.0019	Not Detected
Ethene	0.0019	Not Detected
Acetylene	0.0019	Not Detected
Propane	0.0019	Not Detected
Isobutane	0.0019	Not Detected
Butane	0.0019	Not Detected
Neopentane	0.0019	Not Detected
Isopentane	0.0019	Not Detected
Pentane	0.0019	Not Detected
C6+	0.019	Not Detected
Hydrogen	0.019	0.72
Helium	0.096	0.91

Container Type: 6 Liter Summa Canister

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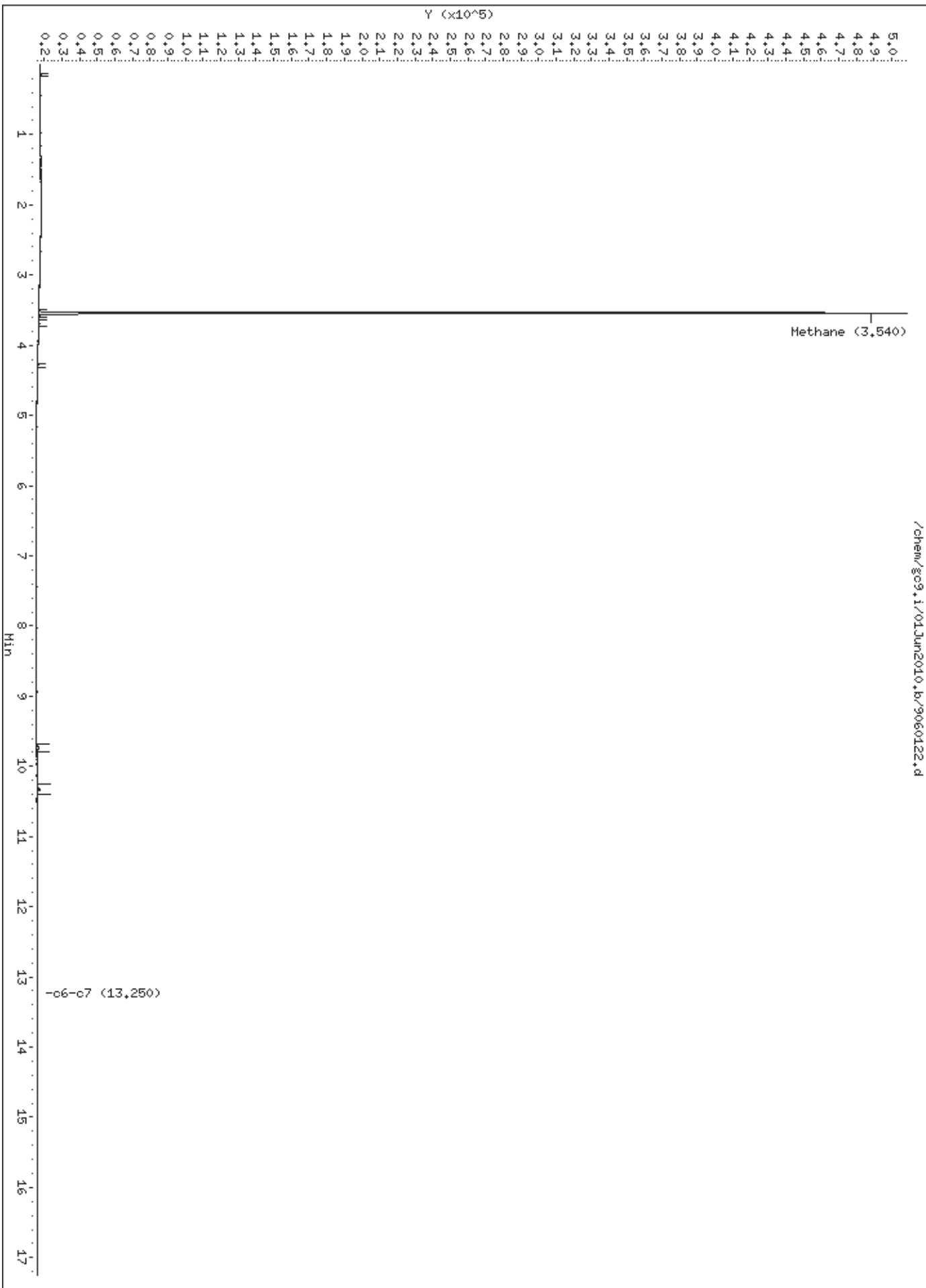
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/01Jun2010.b/9060122.d
Lab Smp Id: 1005453B-02A
Inj Date : 01-JUN-2010 19:00
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,13667
Misc Info : 9.0"Hg->5psi
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
Dil Factor: 1.91000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

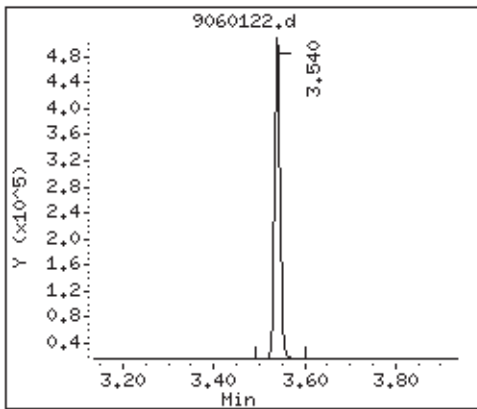
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

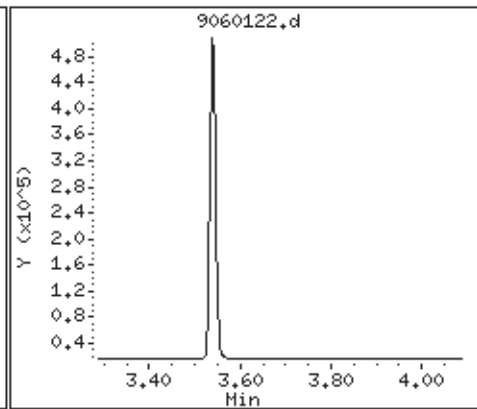
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (%)	FINAL (%)
=====	==	=====	=====	=====	=====	=====
2 Methane	3.540	3.536	0.004	4316742	0.02849	0.0544
3 ethane				Compound Not Detected.		
4 ethene				Compound Not Detected.		
5 propane				Compound Not Detected.		
7 acetylene				Compound Not Detected.		
8 iso-butane				Compound Not Detected.		
10 n-butane				Compound Not Detected.		
15 neo-pentane				Compound Not Detected.		
16 isopentane				Compound Not Detected.		
17 pentane				Compound Not Detected.		
M 37 C6+ Hydrocarbons				Compound Not Detected.		
S 22 c6-c7				Compound Not Detected.		
S 36 c8+				Compound Not Detected.		



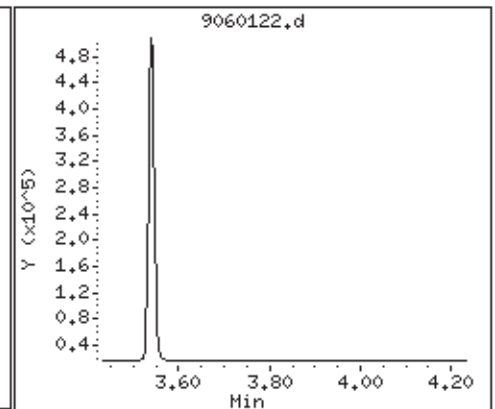
2 Methane



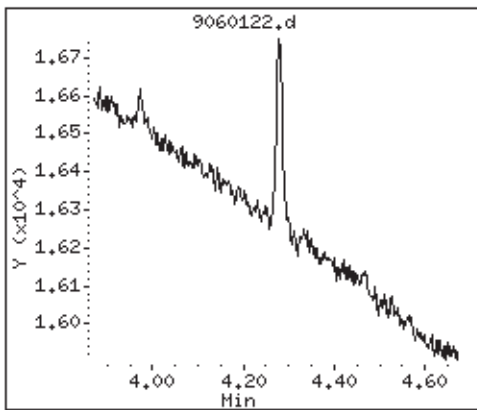
3 ethane (Undetected)



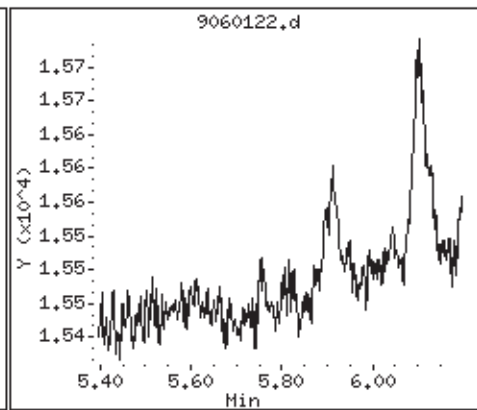
4 ethene (Undetected)



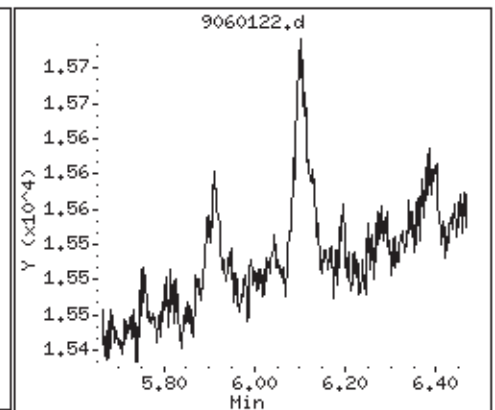
5 propane (Undetected)



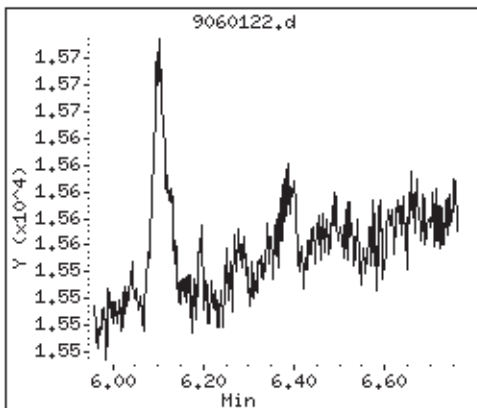
7 acetylene (Undetected)



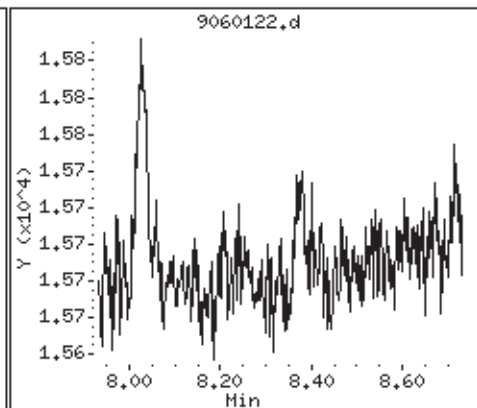
8 iso-butane (Undetected)



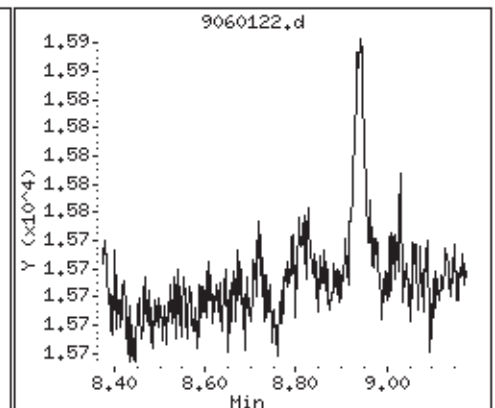
10 n-butane (Undetected)



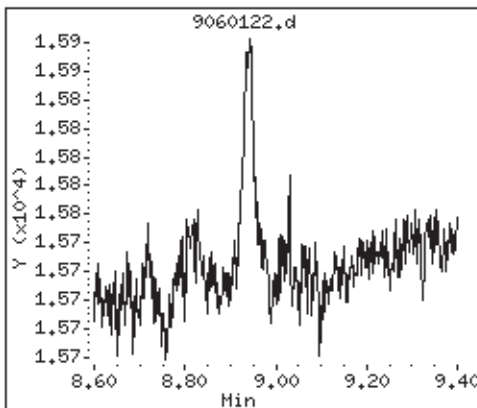
15 neo-pentane (Undetected)



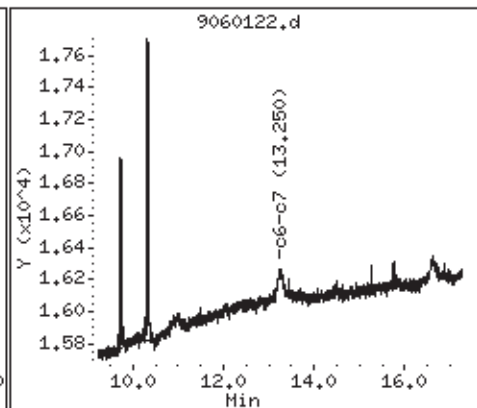
16 isopentane (Undetected)



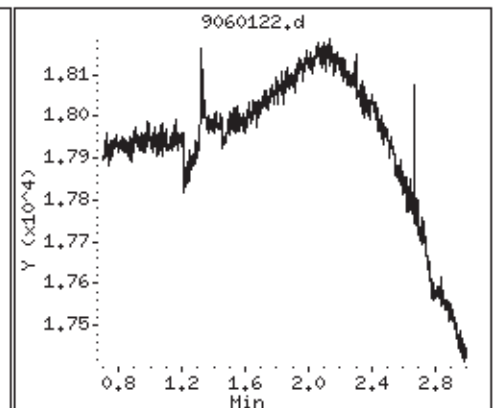
17 pentane (Undetected)



S 22 c6-c7 (Undetected)



S 36 c8+ (Undetected)



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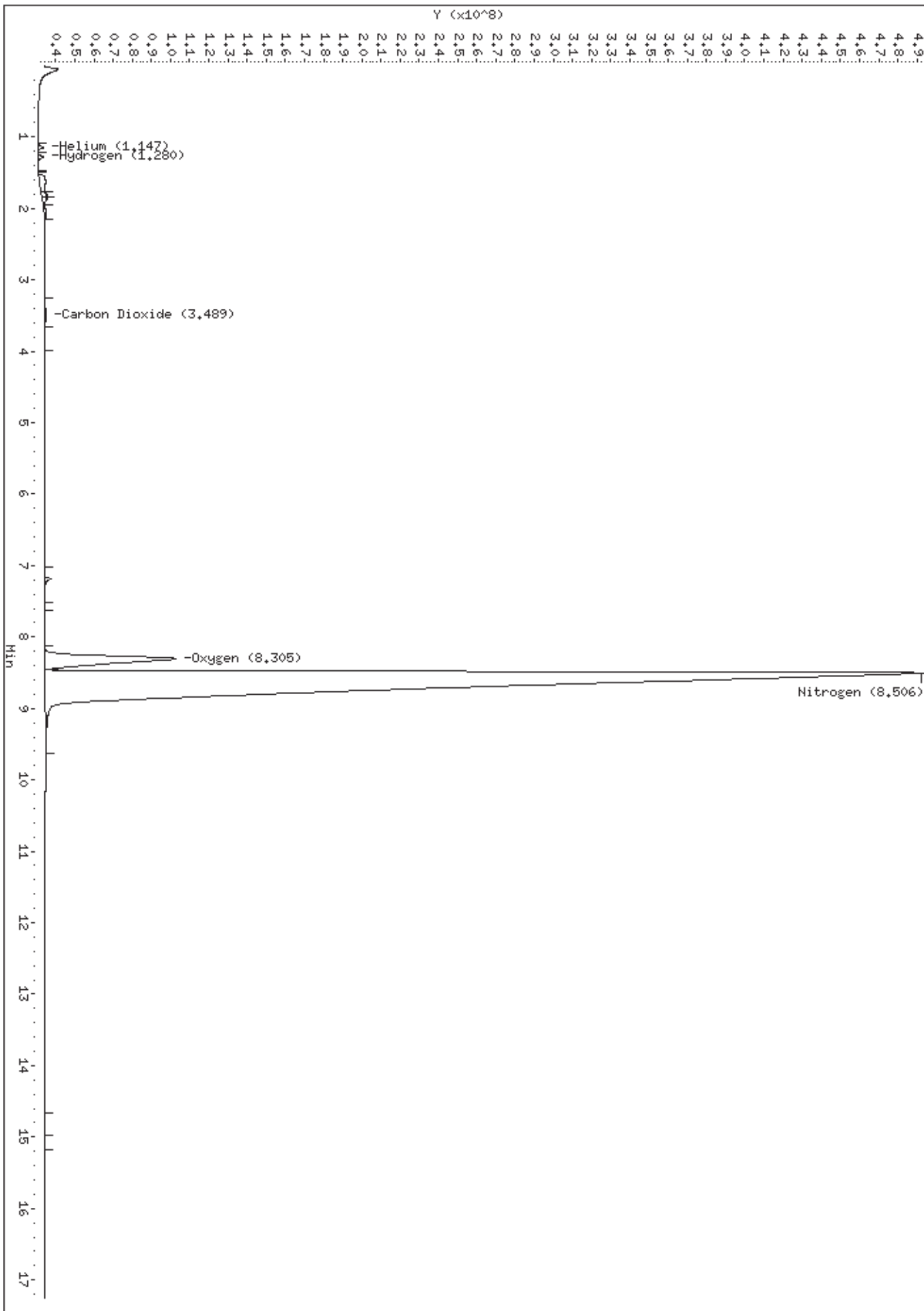
Modified ASTM D-1945

Data file : /chem/gc9.i/01Jun2010.b/9060122b.d
Lab Smp Id: 1005453B-02A
Inj Date : 01-JUN-2010 19:00
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,13667;1005453B-02A;
Misc Info : 9.0"Hg->5psi
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
Dil Factor: 1.91000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

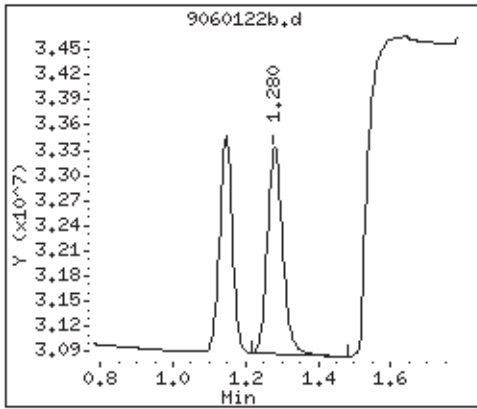
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

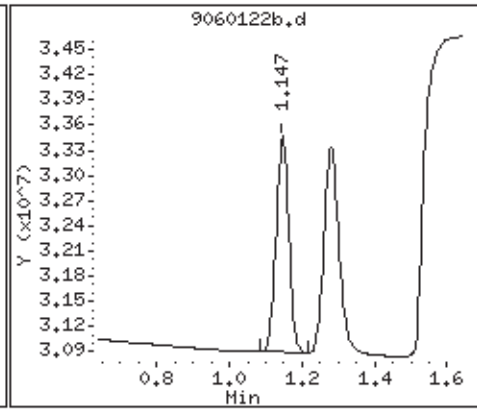
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (%)	FINAL (%)
2 Hydrogen	1.280	1.285	-0.005	35977472	0.37544	0.717
1 Helium	1.147	1.143	0.004	31328841	0.47532	0.908
3 Carbon Dioxide	3.489	3.375	0.114	26418866	0.05197	0.0993
9 Oxygen	8.305	8.336	-0.031	2375600181	7.61701	14.5
10 Nitrogen	8.506	8.549	-0.043	30896445023	90.8377	174
12 Carbon Monoxide				Compound Not Detected.		



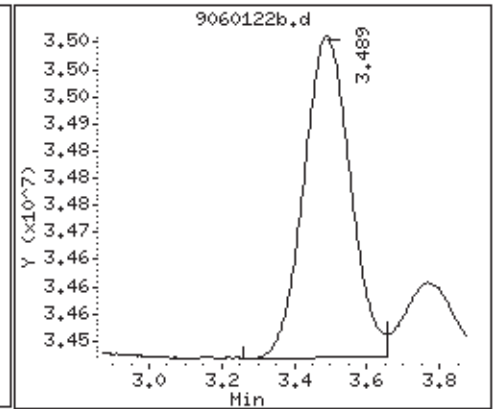
2 Hydrogen



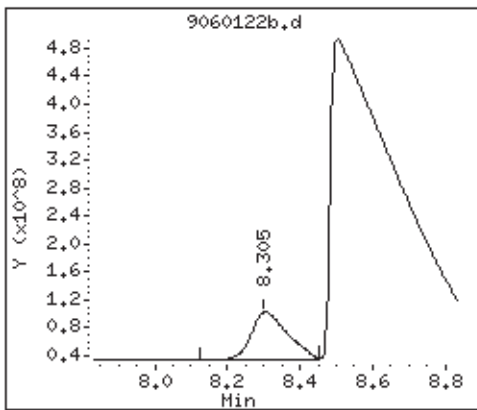
1 Helium



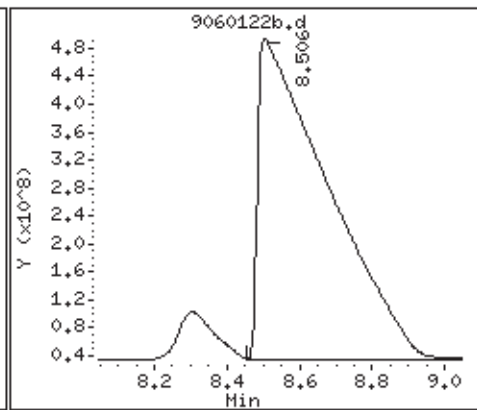
3 Carbon Dioxide



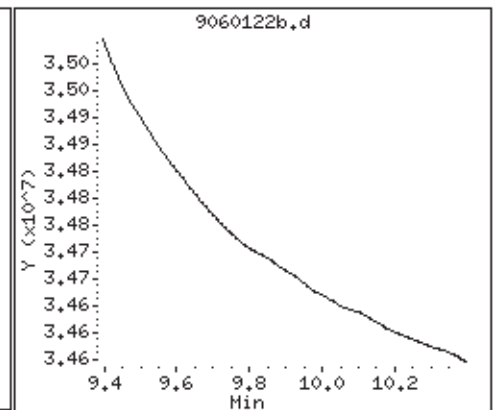
9 Oxygen



10 Nitrogen



12 Carbon Monoxide (Undete)



Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: GV-11

Lab ID#: 1005453B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	20
Nitrogen	0.19	79
Methane	0.00019	0.0099
Carbon Dioxide	0.019	0.071
Hydrogen	0.019	0.11
Helium	0.093	0.74



Client Sample ID: GV-11

Lab ID#: 1005453B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9060209	Date of Collection: 5/16/10 1:39:00 PM
Dil. Factor:	1.86	Date of Analysis: 6/2/10 02:02 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	20
Nitrogen	0.19	79
Carbon Monoxide	0.019	Not Detected
Methane	0.00019	0.0099
Carbon Dioxide	0.019	0.071
Ethane	0.0019	Not Detected
Ethene	0.0019	Not Detected
Acetylene	0.0019	Not Detected
Propane	0.0019	Not Detected
Isobutane	0.0019	Not Detected
Butane	0.0019	Not Detected
Neopentane	0.0019	Not Detected
Isopentane	0.0019	Not Detected
Pentane	0.0019	Not Detected
C6+	0.019	Not Detected
Hydrogen	0.019	0.11
Helium	0.093	0.74

Container Type: 6 Liter Summa Canister

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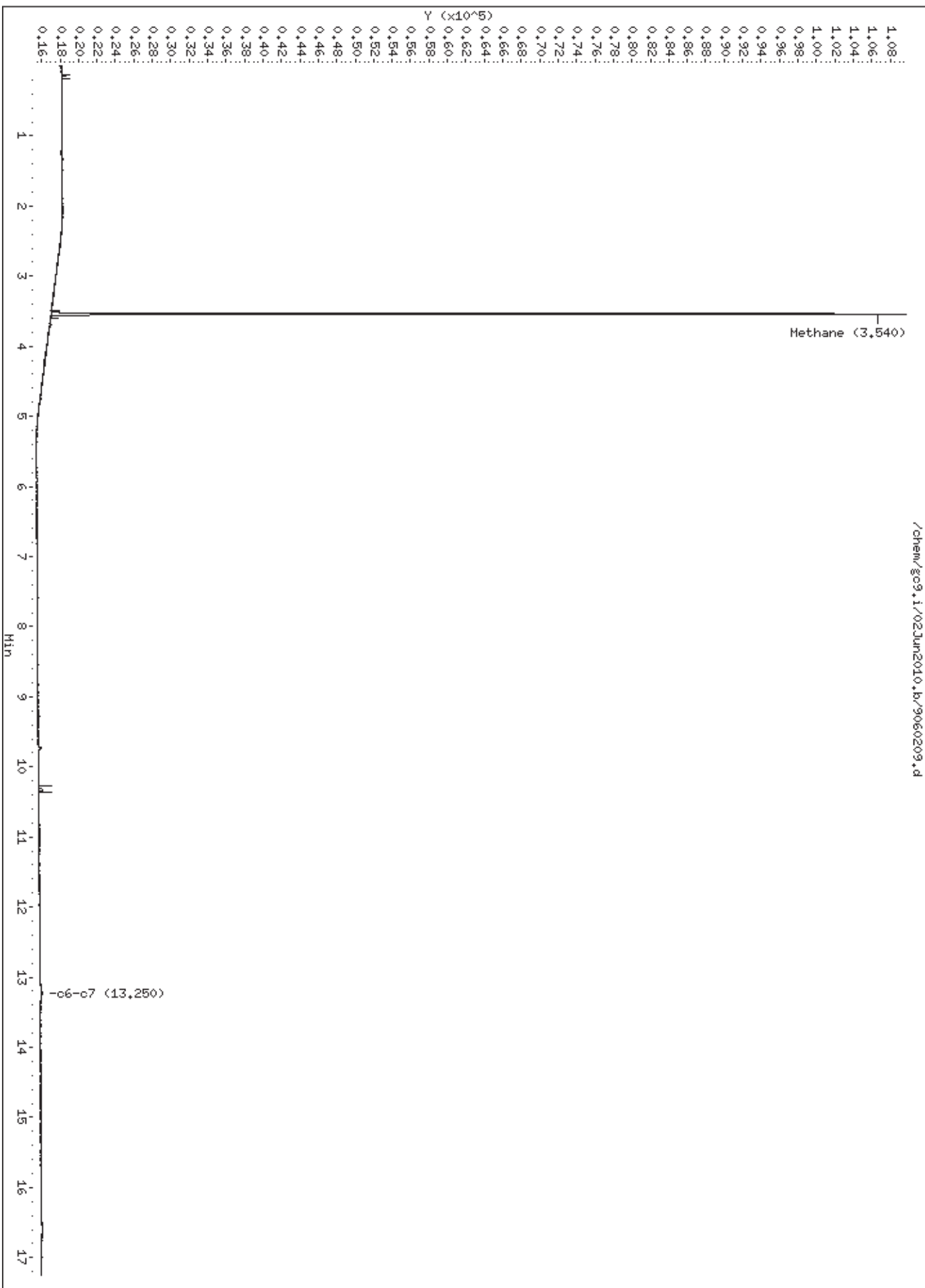
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/02Jun2010.b/9060209.d
Lab Smp Id: 1005453B-03A
Inj Date : 02-JUN-2010 14:02
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,33382
Misc Info : 8.4"Hg.5.0psi, Exponent
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
Dil Factor: 1.86000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

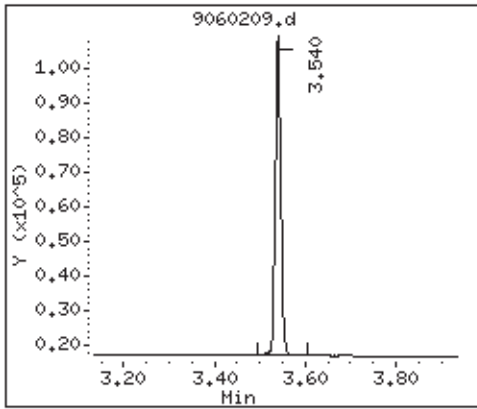
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

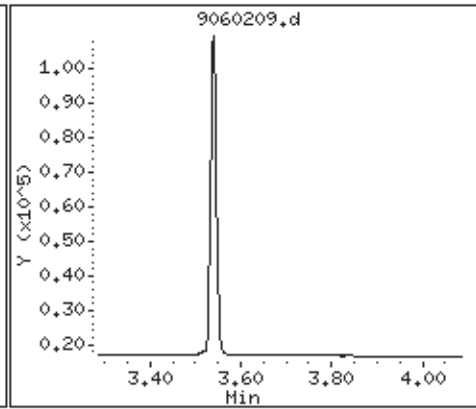
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (%)	FINAL (%)
=====	==	=====	=====	=====	=====	=====
2 Methane	3.540	3.536	0.004	822353	0.00530	0.00986
3 ethane				Compound Not Detected.		
4 ethene				Compound Not Detected.		
5 propane				Compound Not Detected.		
7 acetylene				Compound Not Detected.		
8 iso-butane				Compound Not Detected.		
10 n-butane				Compound Not Detected.		
15 neo-pentane				Compound Not Detected.		
16 isopentane				Compound Not Detected.		
17 pentane				Compound Not Detected.		
M 37 C6+ Hydrocarbons				Compound Not Detected.		
S 22 c6-c7				Compound Not Detected.		
S 36 c8+				Compound Not Detected.		



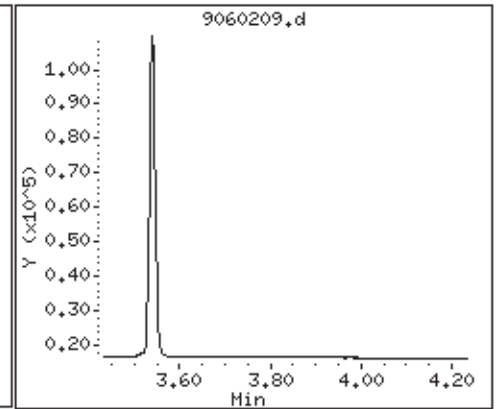
2 Methane



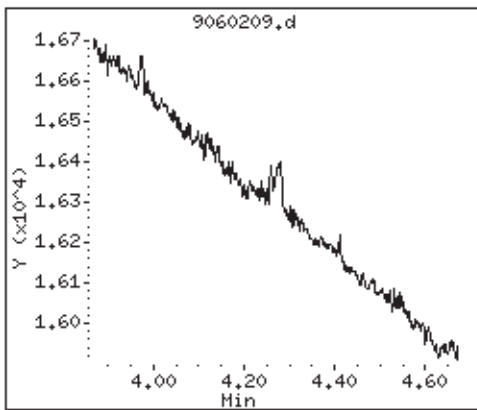
3 ethane (Undetected)



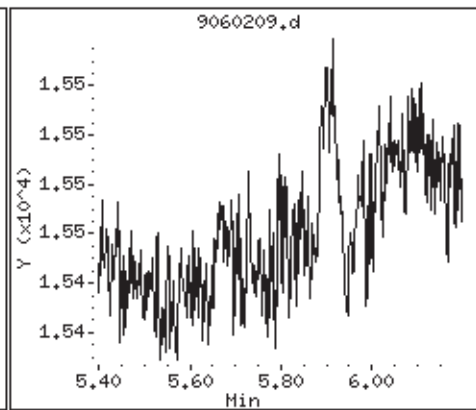
4 ethene (Undetected)



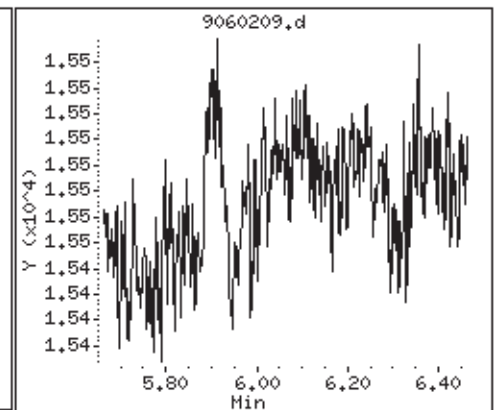
5 propane (Undetected)



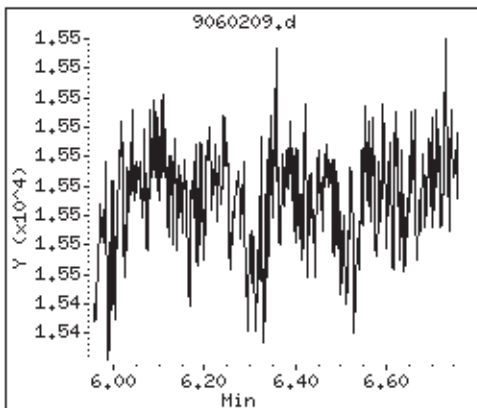
7 acetylene (Undetected)



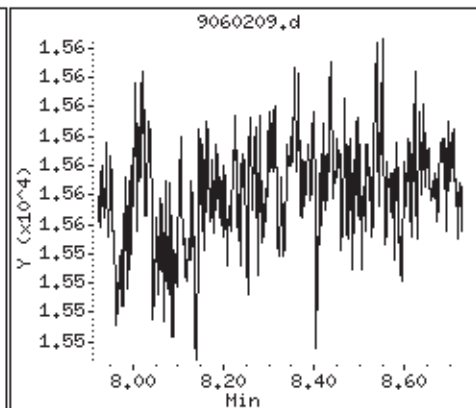
8 iso-butane (Undetected)



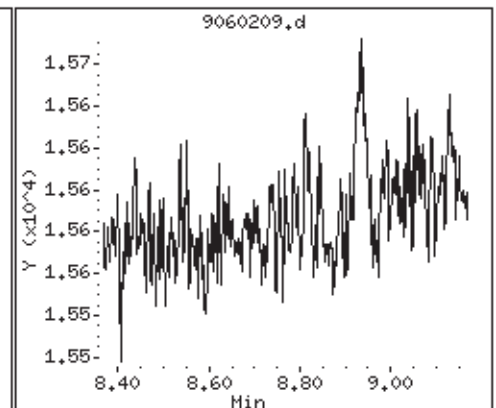
10 n-butane (Undetected)



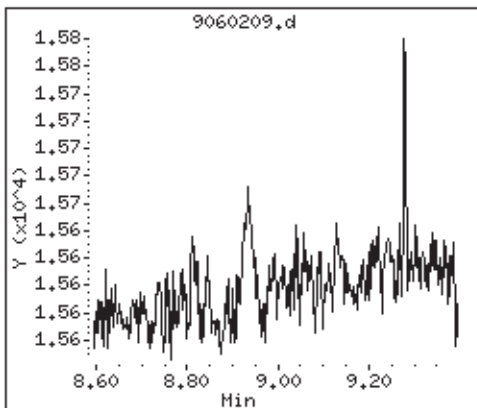
15 neo-pentane (Undetected)



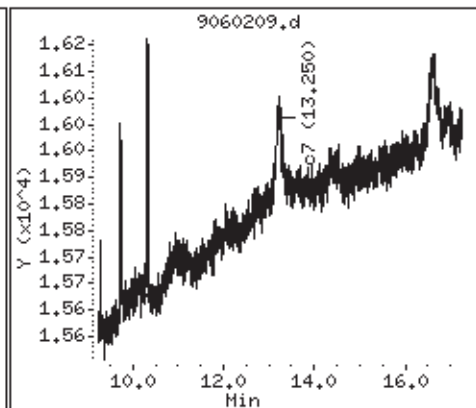
16 isopentane (Undetected)



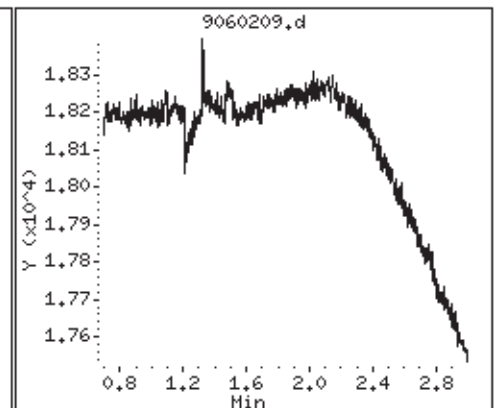
17 pentane (Undetected)



S 22 c6-c7 (Undetected)



S 36 c8+ (Undetected)



Air Toxics Ltd.

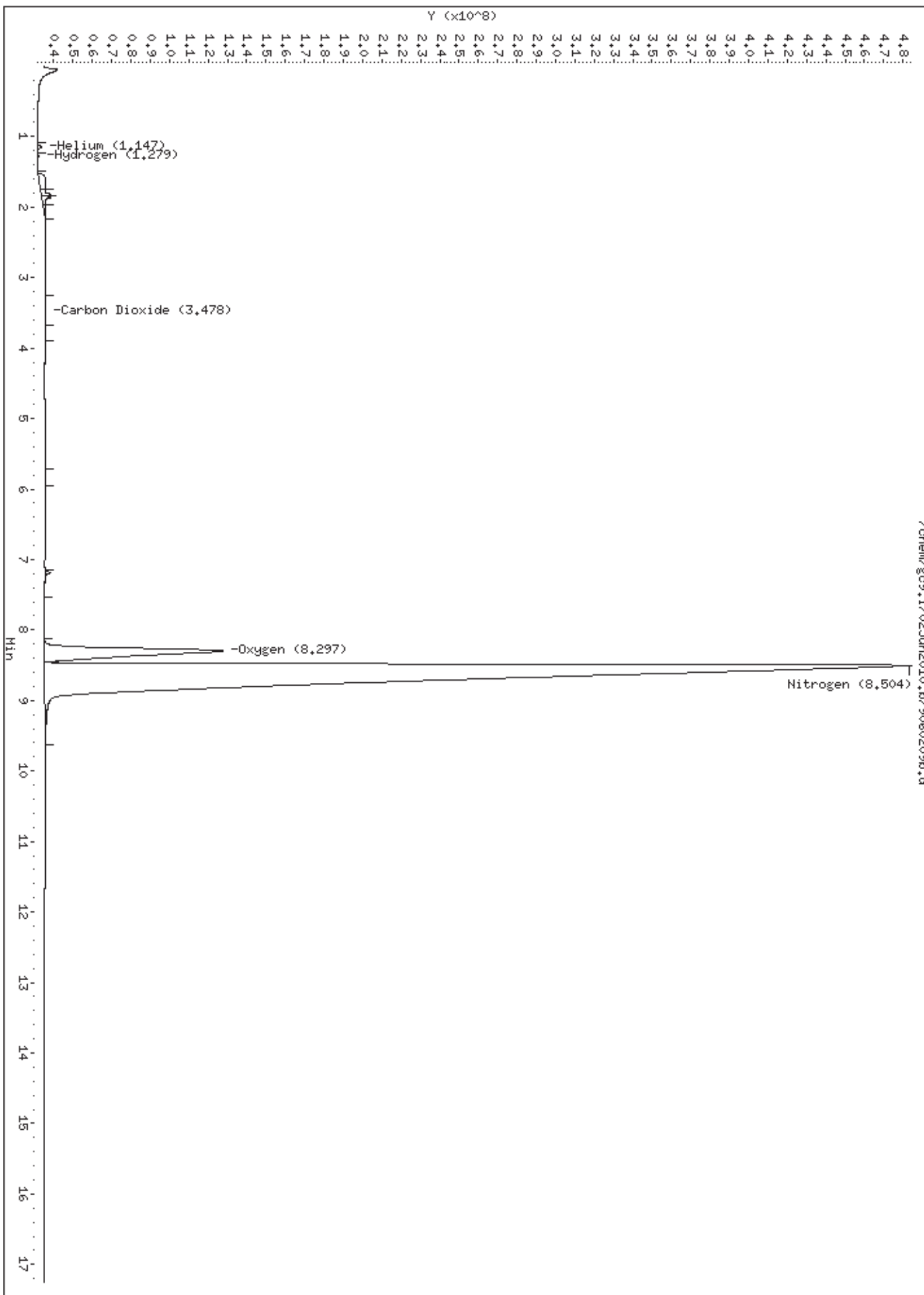
Modified ASTM D-1945

Data file : /chem/gc9.i/02Jun2010.b/9060209b.d
Lab Smp Id: 1005453B-03A
Inj Date : 02-JUN-2010 14:02
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,33382;1005453B-03A;
Misc Info : 8.4"Hg.5.0psi, Exponent
Comment : GC/TCD
Method : /chem/gc9.i/02Jun2010.b/910n0430.m/910C0417.m
Meth Date : 02-Jun-2010 22:28 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 10:32 Cal File: 9060201b.d
Als bottle: 1
Dil Factor: 1.86000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

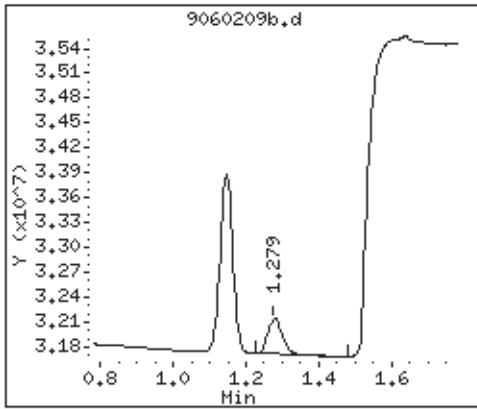
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

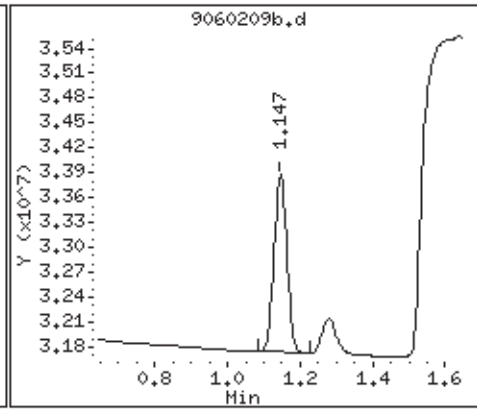
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (%)	FINAL (%)
2 Hydrogen	1.279	1.285	-0.006	6100005	0.05845	0.109
1 Helium	1.147	1.146	0.001	26350381	0.39526	0.735
3 Carbon Dioxide	3.478	3.348	0.130	19165920	0.03805	0.0708
9 Oxygen	8.297	8.330	-0.033	3284279327	10.4726	19.5
10 Nitrogen	8.504	8.540	-0.036	30143106003	88.3070	164
12 Carbon Monoxide				Compound Not Detected.		



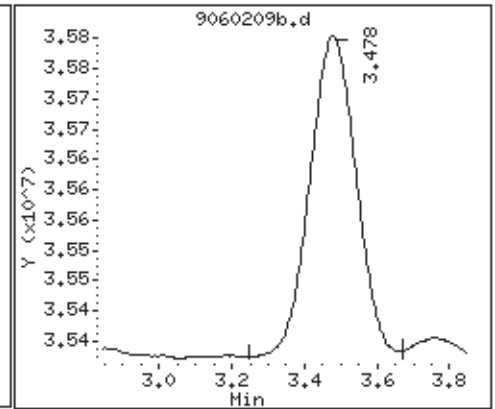
2 Hydrogen



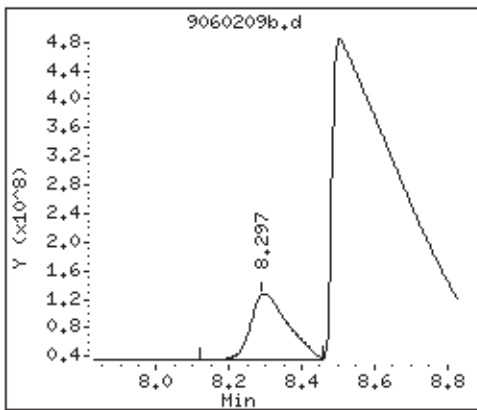
1 Helium



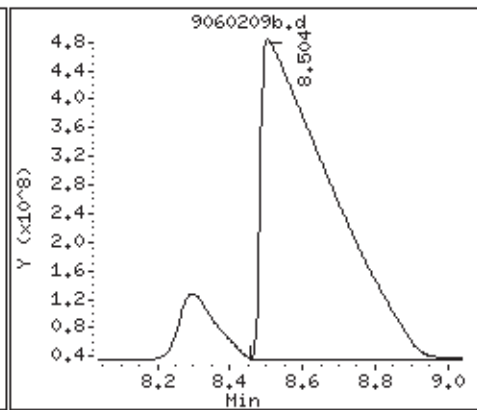
3 Carbon Dioxide



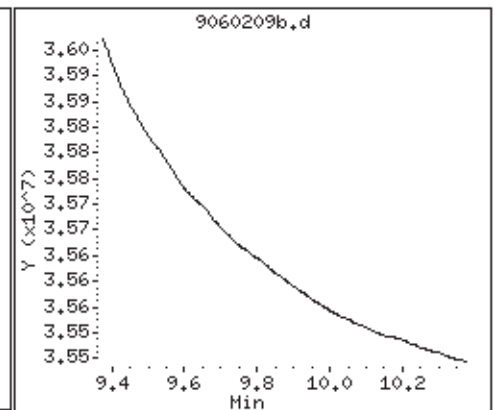
9 Oxygen



10 Nitrogen



12 Carbon Monoxide (Undete





Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: GV-11 Lab Duplicate

Lab ID#: 1005453B-03AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	20
Nitrogen	0.19	79
Methane	0.00019	0.0098
Carbon Dioxide	0.019	0.073
Hydrogen	0.019	0.11
Helium	0.093	0.74



Client Sample ID: GV-11 Lab Duplicate

Lab ID#: 1005453B-03AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9060210	Date of Collection: 5/16/10 1:39:00 PM
Dil. Factor:	1.86	Date of Analysis: 6/2/10 02:24 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	20
Nitrogen	0.19	79
Carbon Monoxide	0.019	Not Detected
Methane	0.00019	0.0098
Carbon Dioxide	0.019	0.073
Ethane	0.0019	Not Detected
Ethene	0.0019	Not Detected
Acetylene	0.0019	Not Detected
Propane	0.0019	Not Detected
Isobutane	0.0019	Not Detected
Butane	0.0019	Not Detected
Neopentane	0.0019	Not Detected
Isopentane	0.0019	Not Detected
Pentane	0.0019	Not Detected
C6+	0.019	Not Detected
Hydrogen	0.019	0.11
Helium	0.093	0.74

Container Type: 6 Liter Summa Canister

Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/02Jun2010.b/9060210.d
Lab Smp Id: 1005453B-03AA
Inj Date : 02-JUN-2010 14:24
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,33382
Misc Info : 8.4"Hg.5.0psi, Exponent
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
Dil Factor: 1.86000
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	CONCENTRATIONS	
					ON-COLUMN (%)	FINAL (%)
2 Methane	3.539	3.536	0.003	819837	0.00528	0.00983
3 ethane				Compound Not Detected.		
4 ethene				Compound Not Detected.		
5 propane				Compound Not Detected.		
7 acetylene				Compound Not Detected.		
8 iso-butane				Compound Not Detected.		
10 n-butane				Compound Not Detected.		
15 neo-pentane				Compound Not Detected.		
16 isopentane				Compound Not Detected.		
17 pentane				Compound Not Detected.		
M 37 C6+ Hydrocarbons				Compound Not Detected.		
S 22 c6-c7				Compound Not Detected.		
S 36 c8+				Compound Not Detected.		

