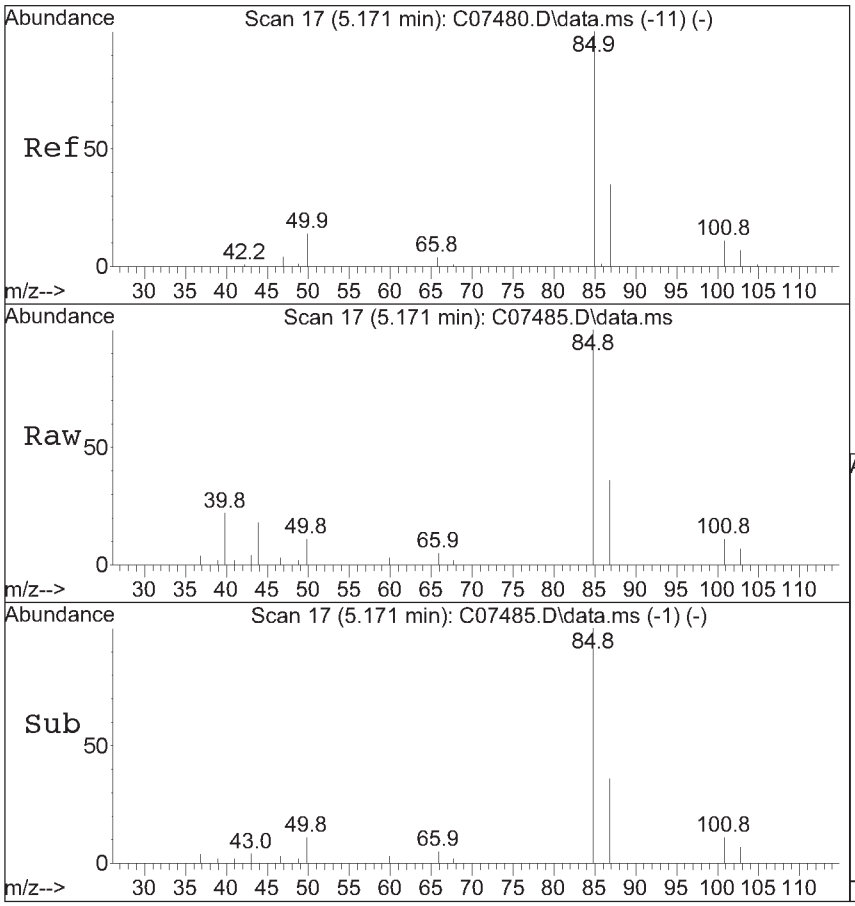
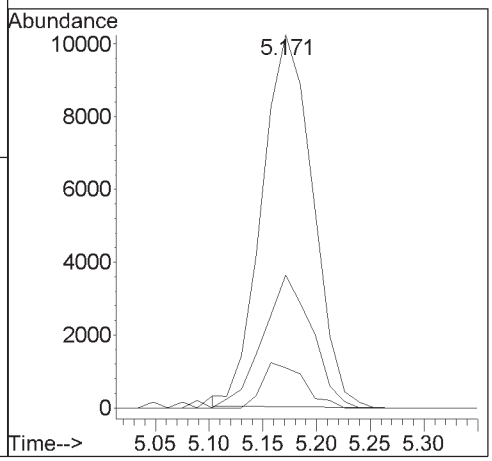
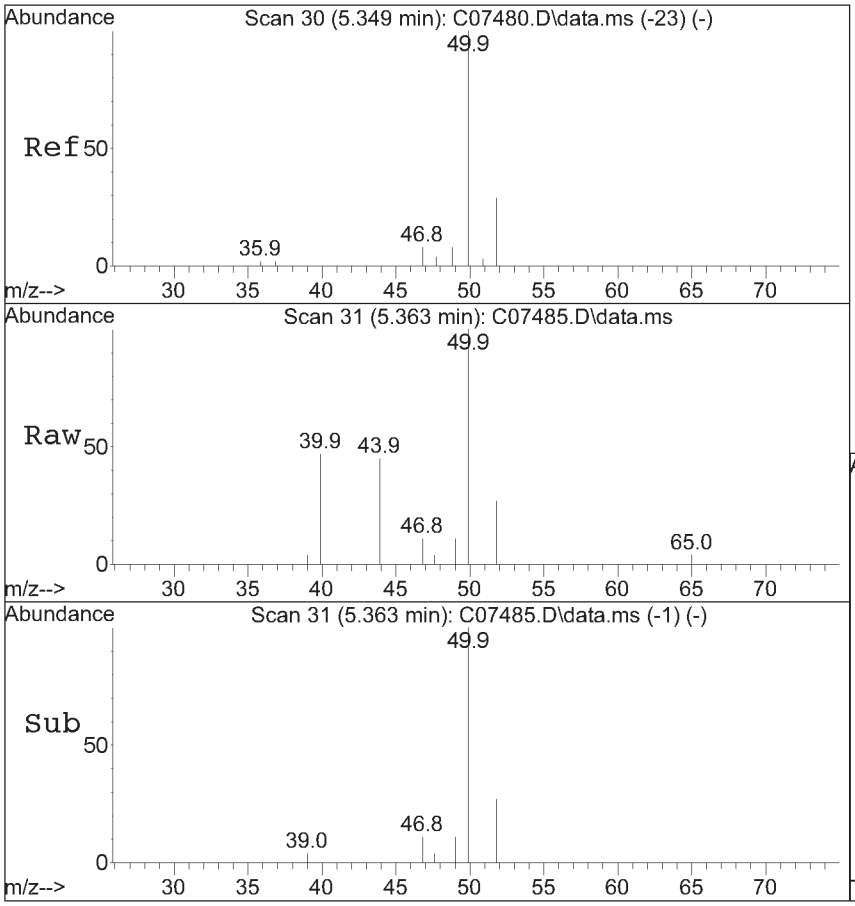


#3
DICHLORODIFLUOROMETHANE
Concen: 0.51 PPBv
RT: 5.178 min Scan# 17
Delta R.T. 0.004 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 85 Resp: 339743

Ion	Ratio	Lower	Upper
85	100		
87	33.6	0.0	0.0#
101	9.8	0.0	0.0#

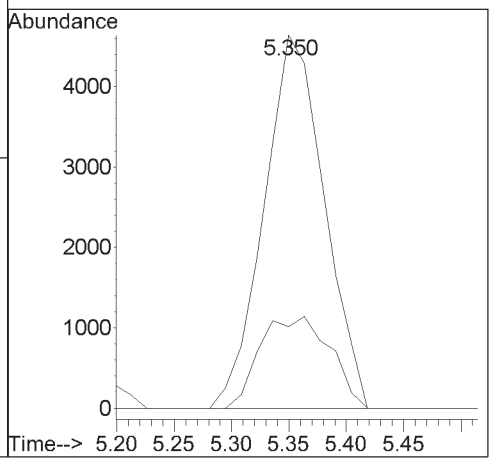


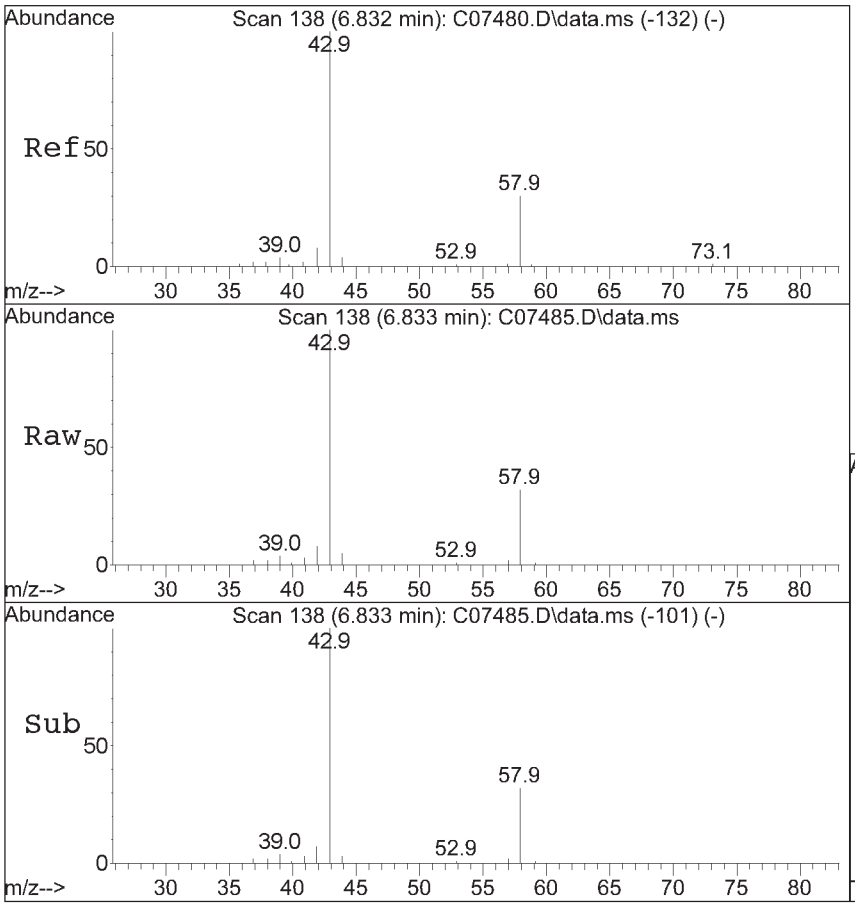


#4
CHLOROMETHANE
Concen: 0.48 PPBv
RT: 5.360 min Scan# 31
Delta R.T. 0.003 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 50 Resp: 169581

Ion	Ratio	Lower	Upper
50	100		
52	28.5	0.0	0.0#

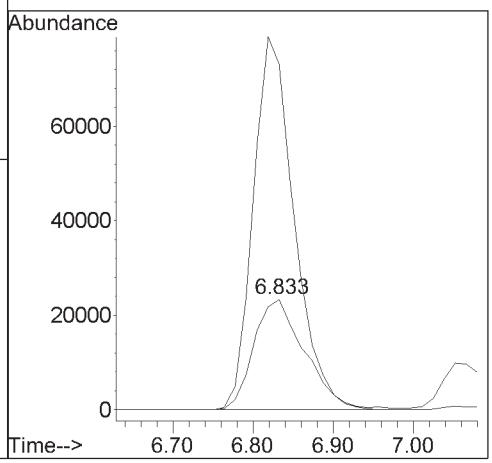


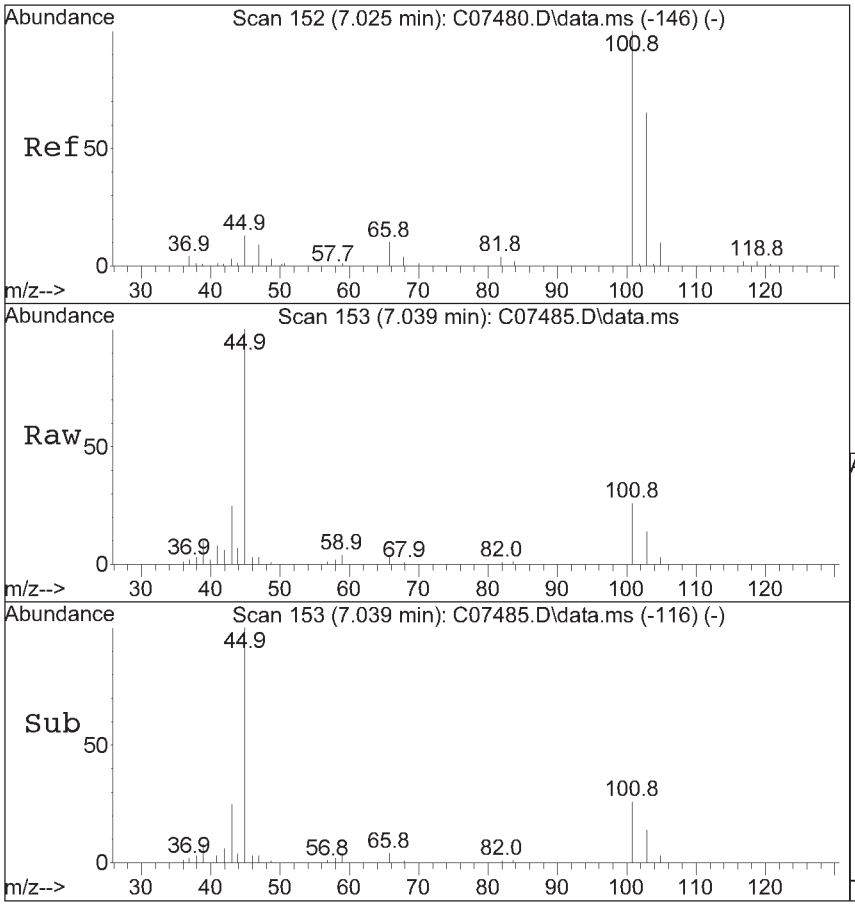


#11
ACETONE
Concen: 7.17 PPBv
RT: 6.833 min Scan# 138
Delta R.T. 0.003 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 58 Resp: 1024084

Ion	Ratio	Lower	Upper
58	100		
43	273.7	0.0	0.0#

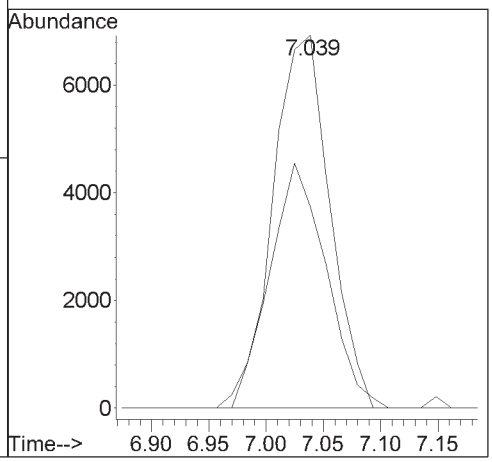


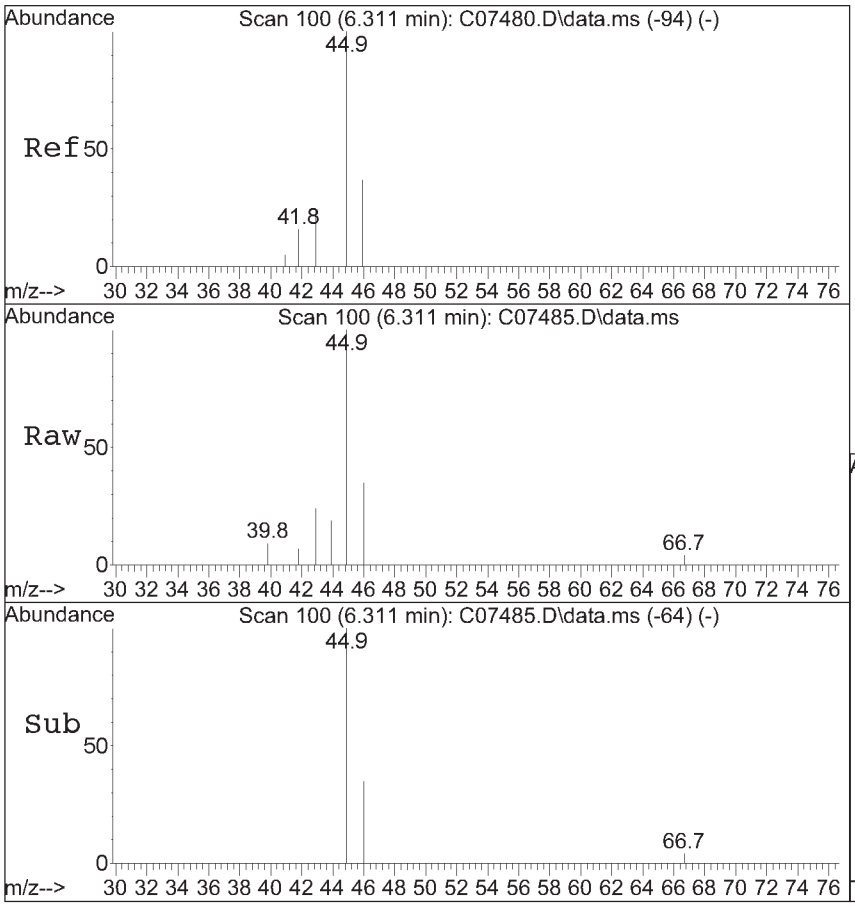


#12
TRICHLOROFLUOROMETHANE
Concen: 0.26 PPBv
RT: 7.037 min Scan# 153
Delta R.T. 0.005 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion:101 Resp: 240129

Ion	Ratio	Lower	Upper
101	100		
103	65.1	0.0	0.0#

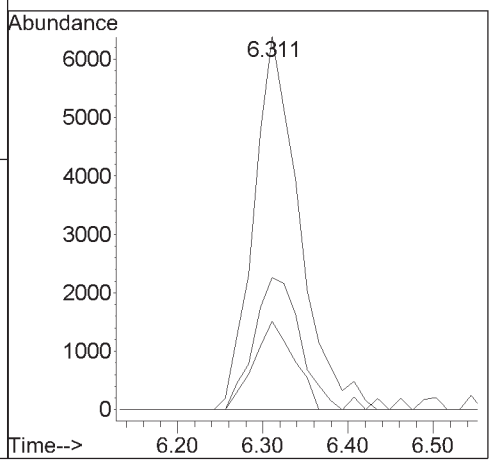


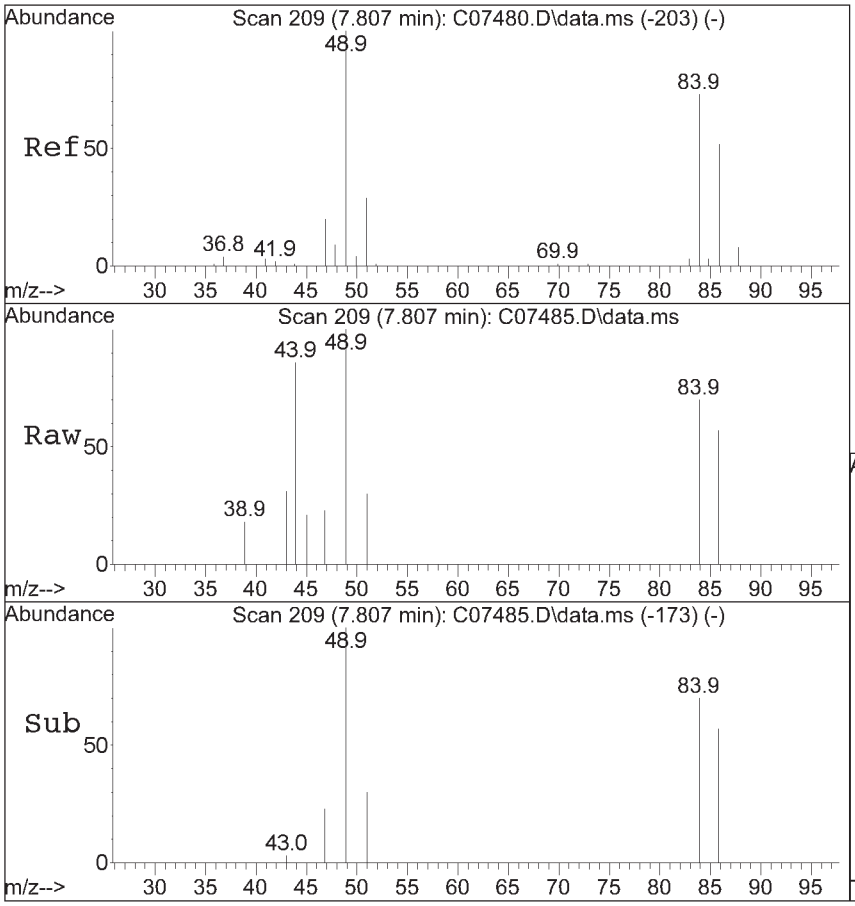


#13
ETHANOL
Concen: 2.85 PPBv
RT: 6.317 min Scan# 100
Delta R.T. -0.000 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 45 Resp: 237955

Ion	Ratio	Lower	Upper
45	100		
46	37.1	0.0	0.0#
43	0.0	0.0	0.0

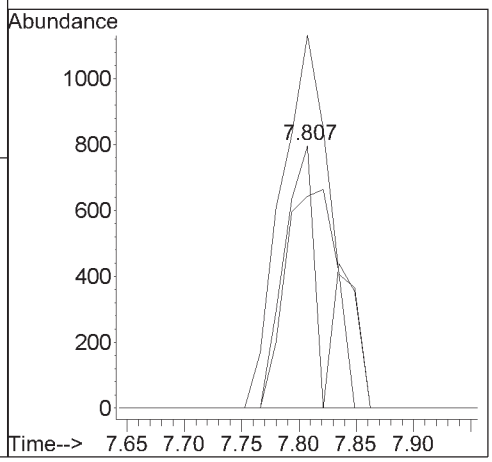


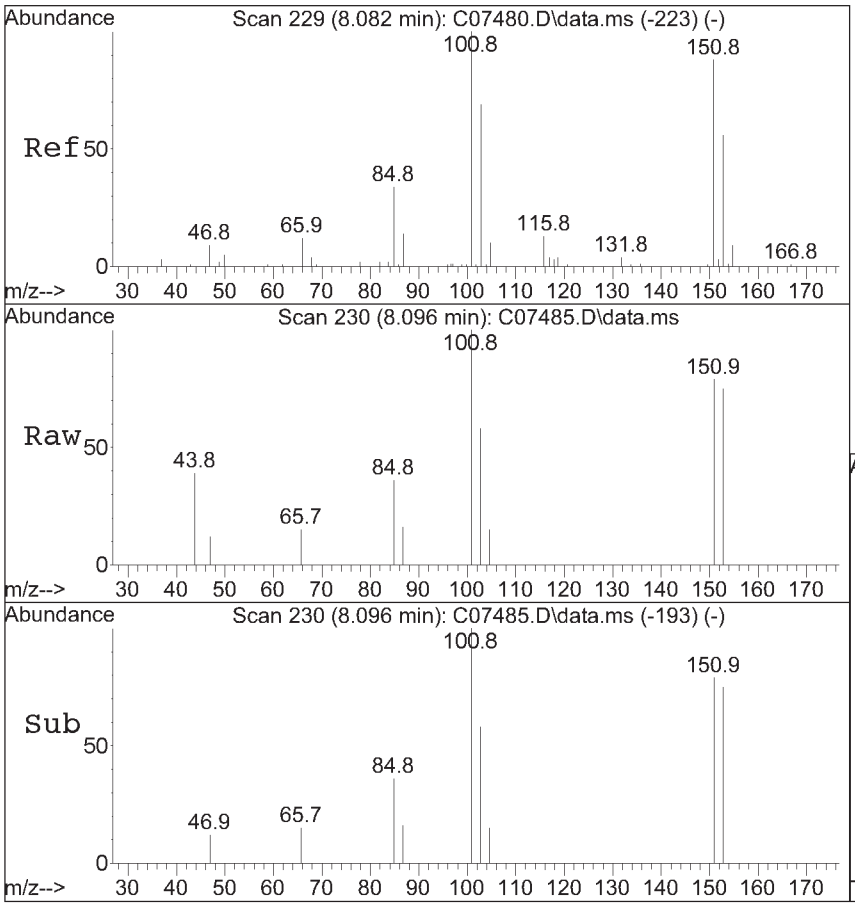


#17
METHYLENE CHLORIDE
Concen: 0.08 PPBv
RT: 7.807 min Scan# 209
Delta R.T. -0.005 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 84 Resp: 20737

Ion	Ratio	Lower	Upper
84	100		
49	173.2	0.0	0.0#
86	99.8	0.0	0.0#

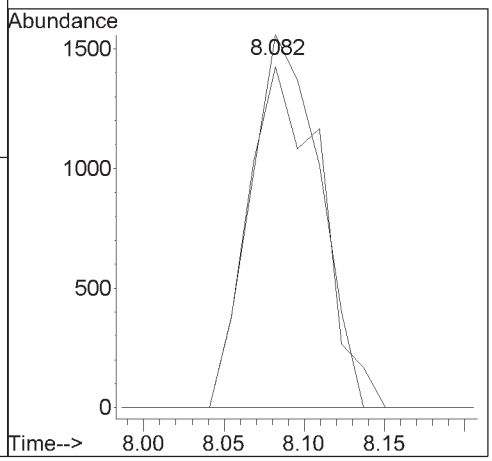


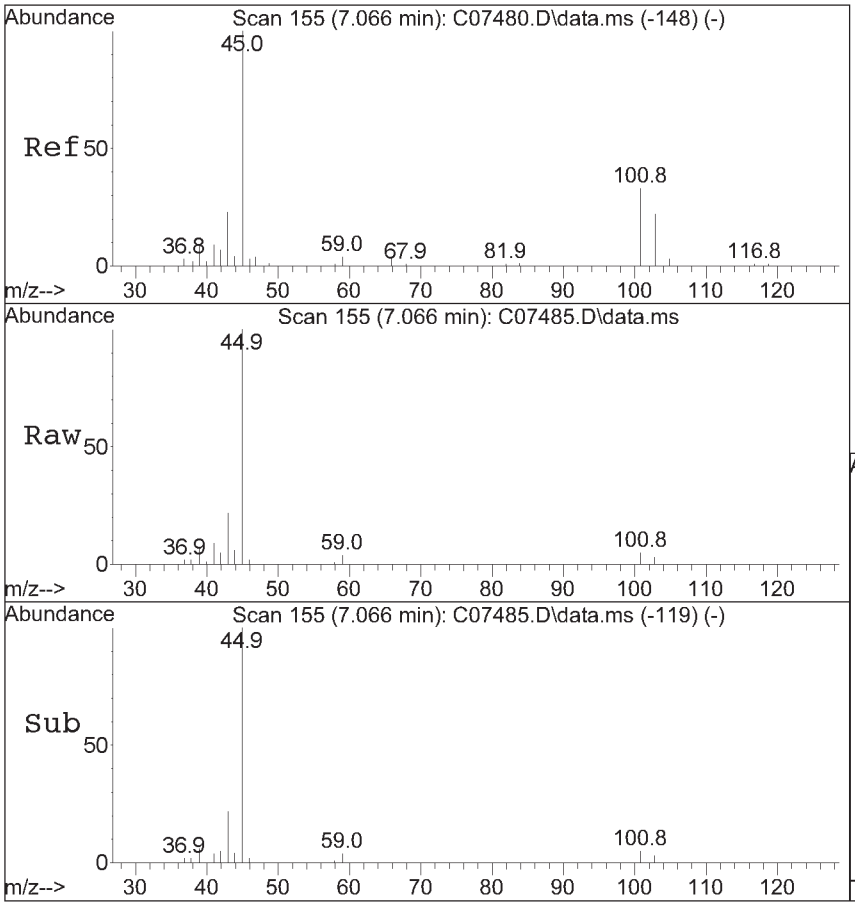


#18
FREON 113
Concen: 0.08 PPBv
RT: 8.092 min Scan# 230
Delta R.T. 0.004 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion:101 Resp: 46957

Ion	Ratio	Lower	Upper
101	100		
151	96.7	0.0	0.0#

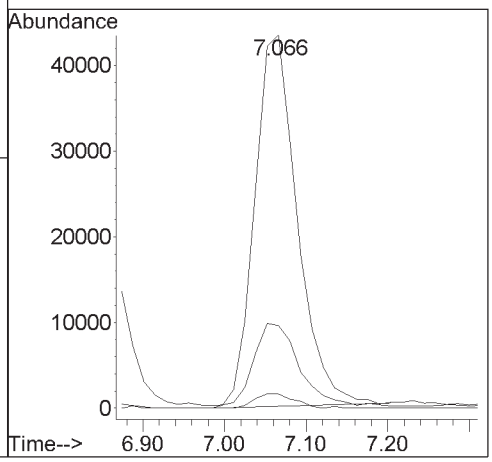


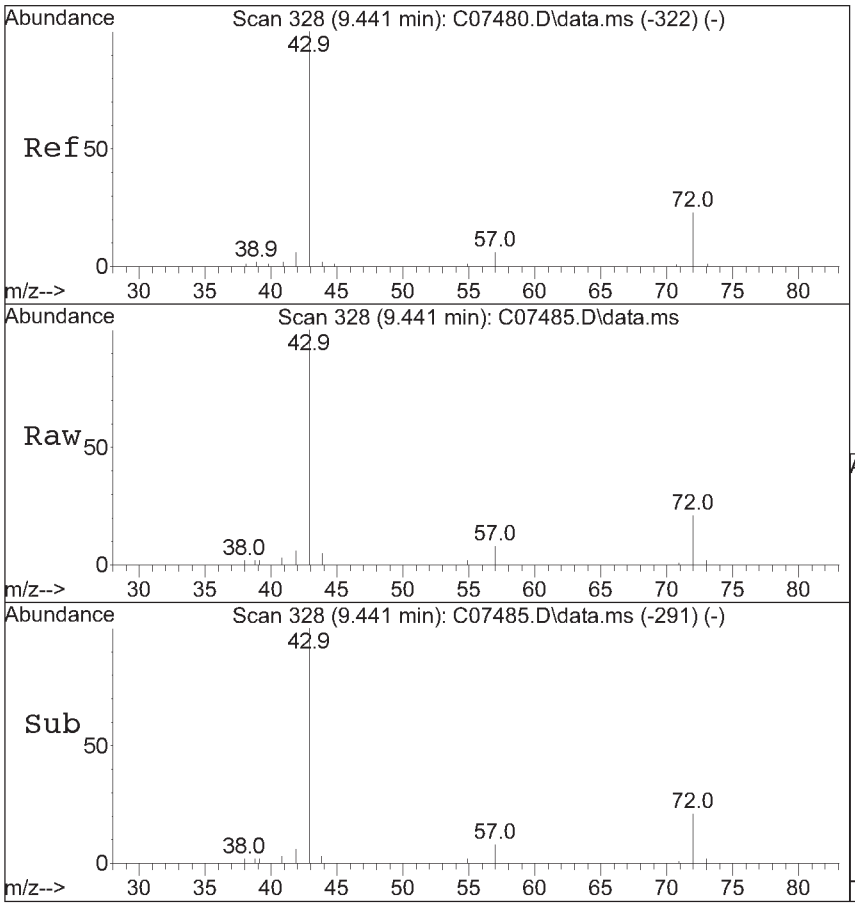


#24
IPA
Concen: 3.54 PPBv
RT: 7.066 min Scan# 155
Delta R.T. 0.000 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 45 Resp: 1563942

Ion	Ratio	Lower	Upper
45	100		
43	24.3	0.0	0.0#
59	3.8	0.0	0.0#

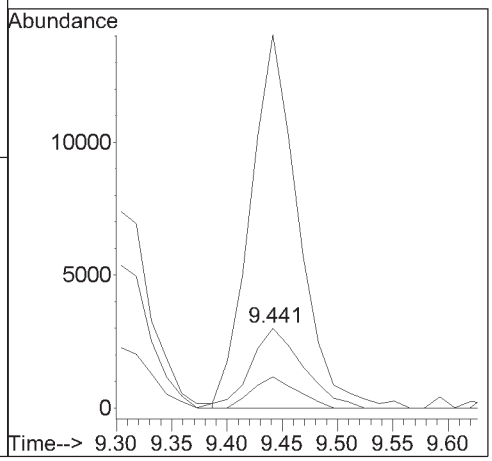


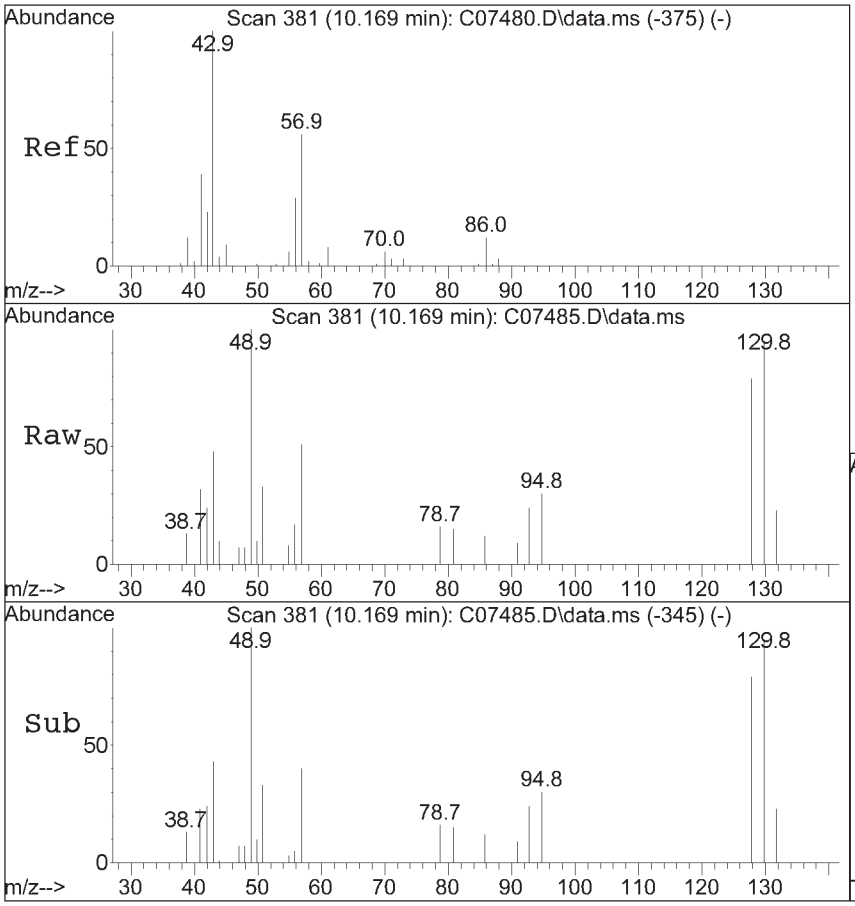


#25
2-BUTANONE (MEK)
Concen: 0.98 PPBv
RT: 9.447 min Scan# 328
Delta R.T. 0.007 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 72 Resp: 98384

Ion	Ratio	Lower	Upper
72	100		
57	0.0	0.0	0.0
43	434.3	0.0	0.0#

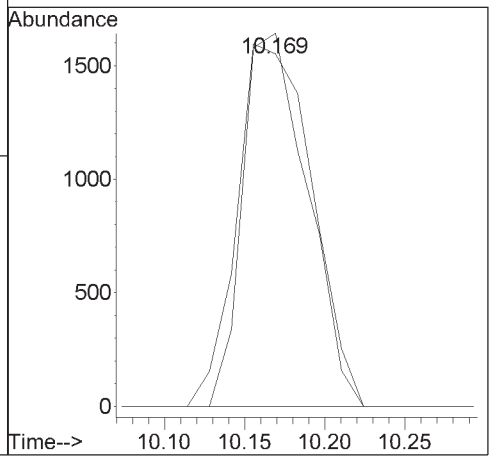


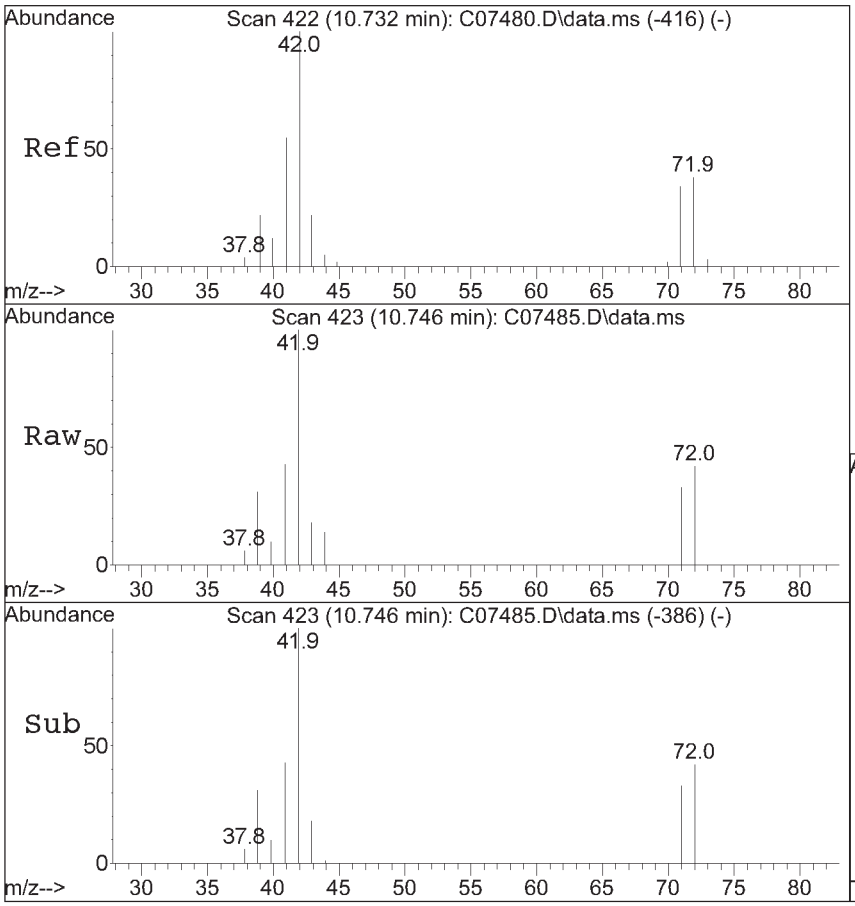


#27
HEXANE
Concen: 0.14 PPBv
RT: 10.171 min Scan# 381
Delta R.T. -0.003 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 57 Resp: 46151

Ion	Ratio	Lower	Upper
57	100		
43	112.4	0.0	0.0#

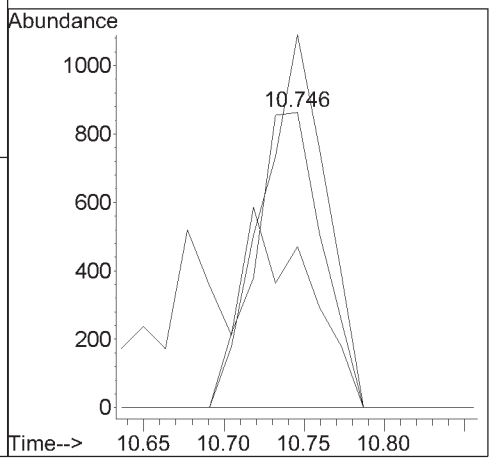


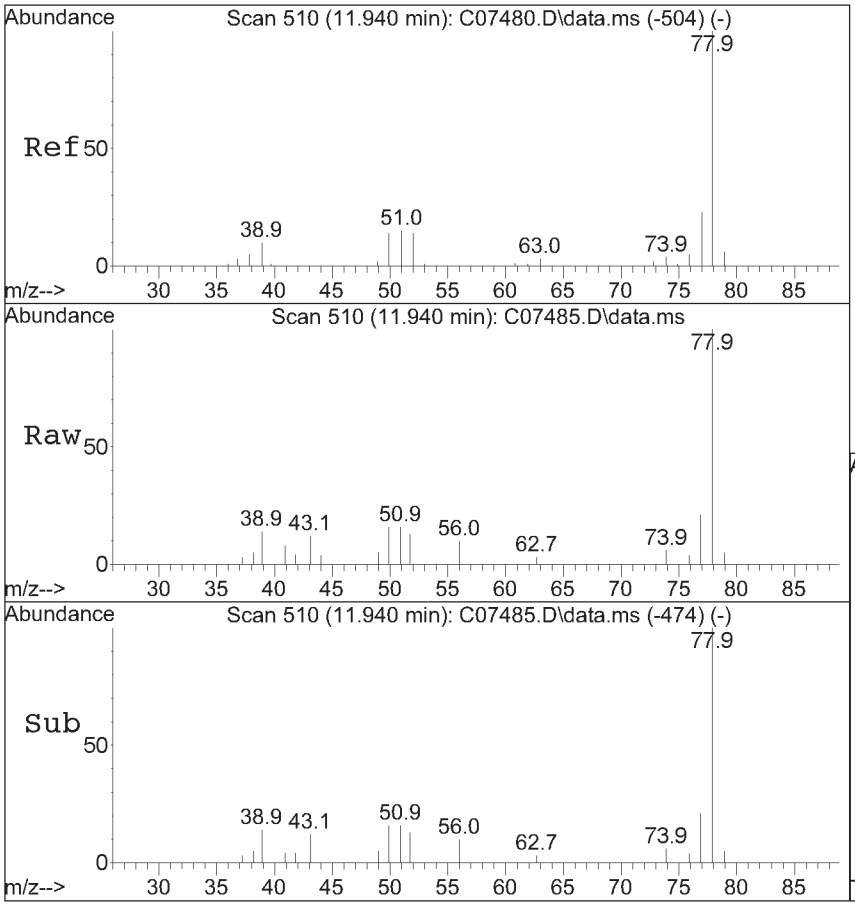


#30
TETRAHYDROFURAN
Concen: 0.35 PPBv
RT: 10.745 min Scan# 423
Delta R.T. 0.011 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 71 Resp: 25337

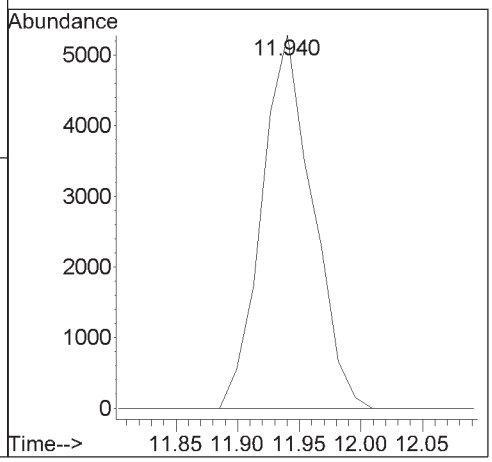
Ion	Ratio	Lower	Upper
71	100		
43	0.0	0.0	0.0
72	118.7	0.0	0.0#

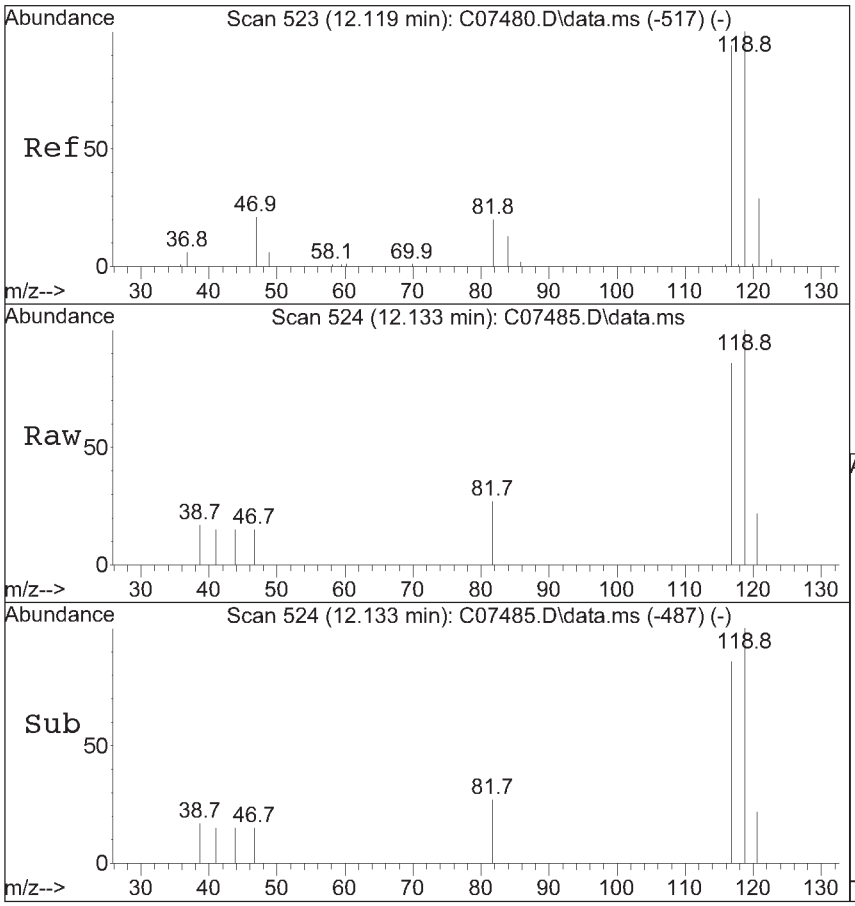




#33
BENZENE
Concen: 0.22 PPBv
RT: 11.944 min Scan# 510
Delta R.T. -0.002 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 78 Resp: 151320

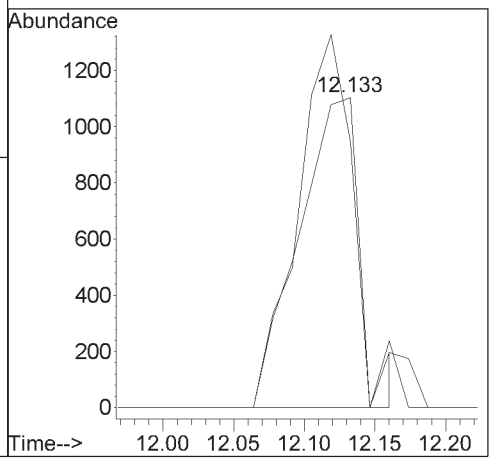


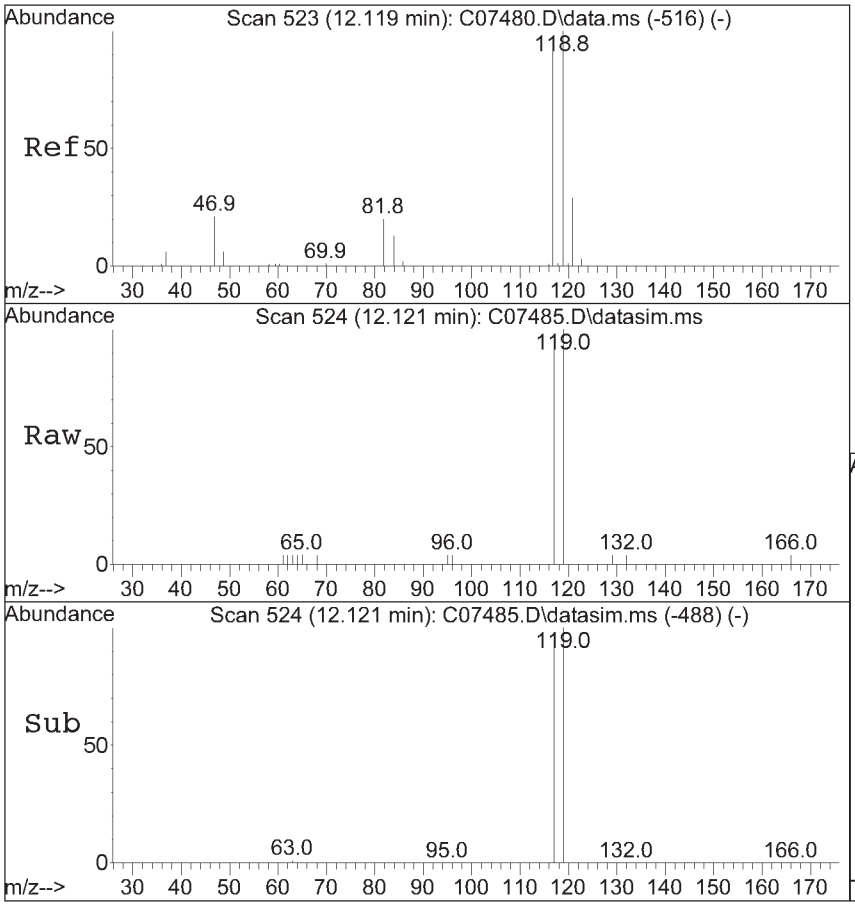


#34
CARBON TETRACHLORIDE
Concen: 0.06 PPBv
RT: 12.129 min Scan# 524
Delta R.T. 0.007 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion:119 Resp: 31638

Ion	Ratio	Lower	Upper
119	100		
117	116.0	0.0	0.0#

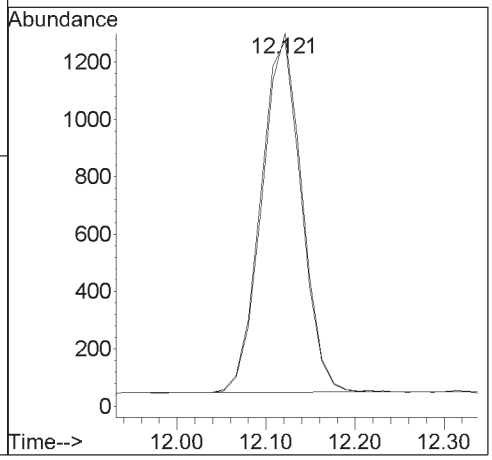


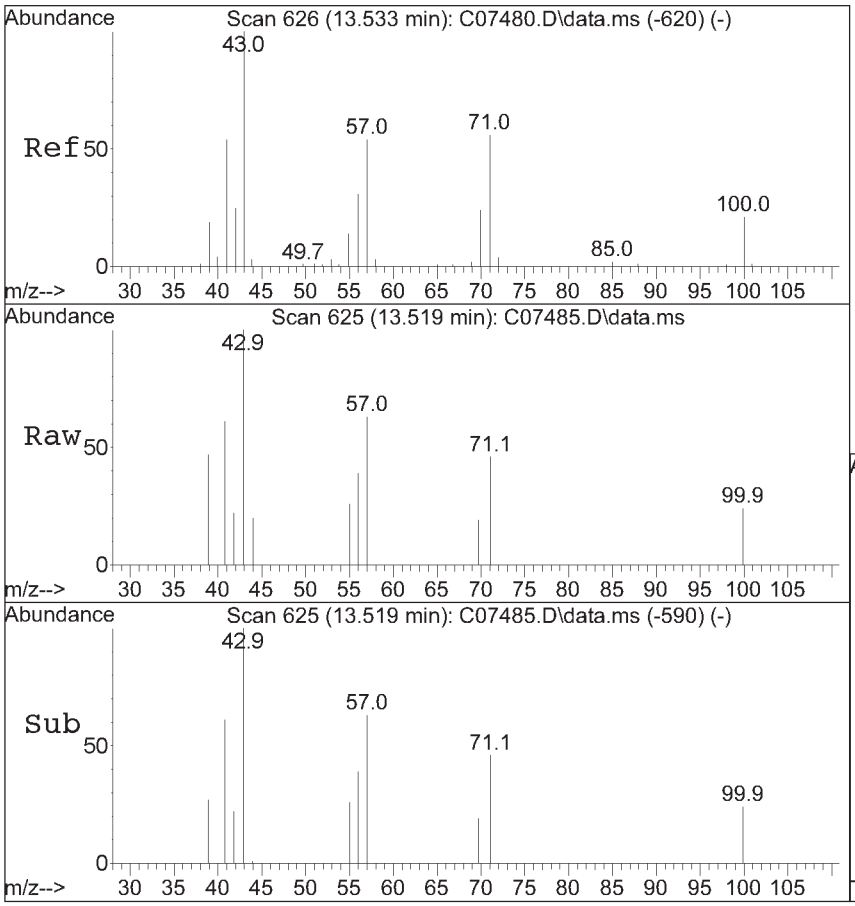


#35
CARBON TETRACHLORIDE (SIM)
Concen: 0.06 PPBv
RT: 12.124 min Scan# 524
Delta R.T. 0.002 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion:119 Resp: 38801

Ion	Ratio	Lower	Upper
119	100		
117	100.3	0.0	0.0#

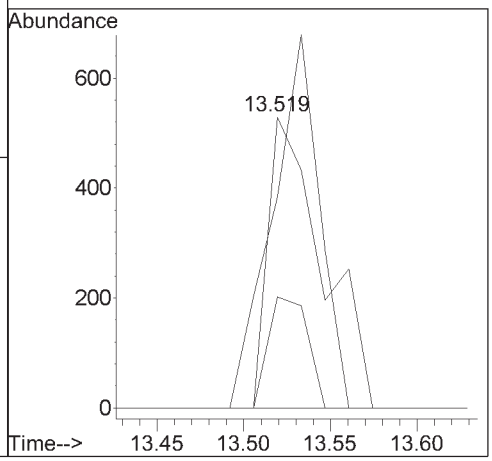


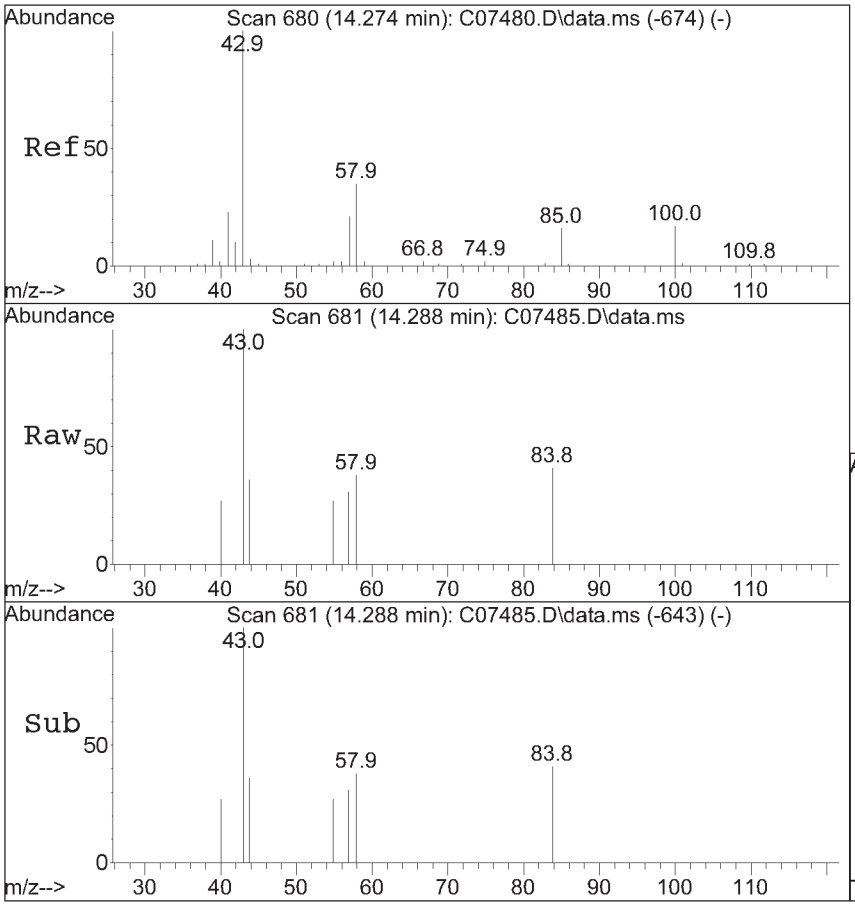


#43
HEPTANE
Concen: 0.05 PPBv m
RT: 13.519 min Scan# 625
Delta R.T. -0.016 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 57 Resp: 11622

Ion	Ratio	Lower	Upper
57	100		
71	0.0	0.0	0.0
100	0.0	0.0	0.0

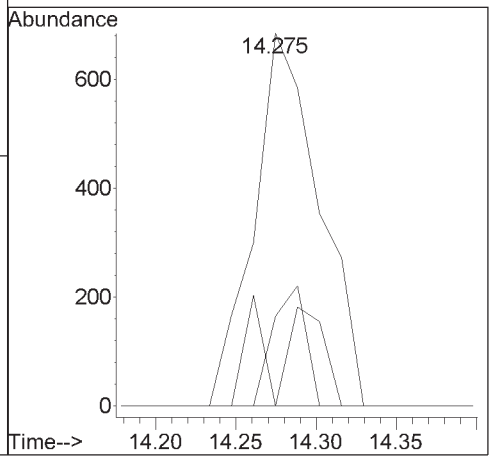


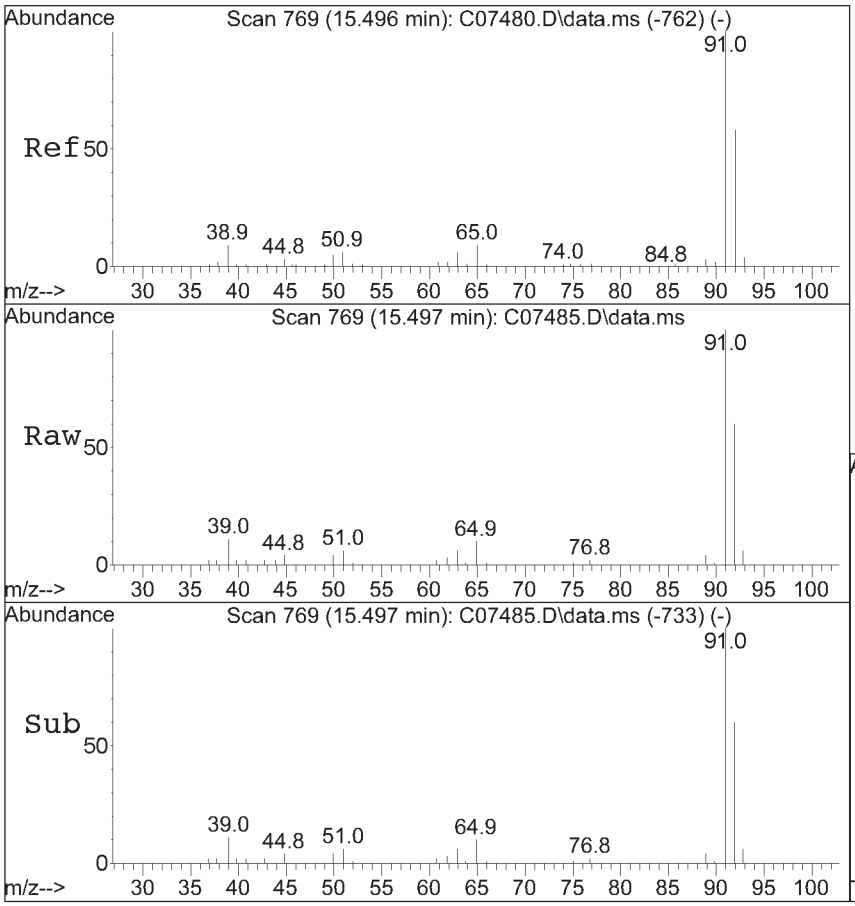


#44
MIBK
Concen: 0.03 PPBv
RT: 14.285 min Scan# 681
Delta R.T. 0.012 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 43 Resp: 19443

Ion	Ratio	Lower	Upper
43	100		
58	0.0	0.0	0.0
57	0.0	0.0	0.0
100	0.0	0.0	0.0

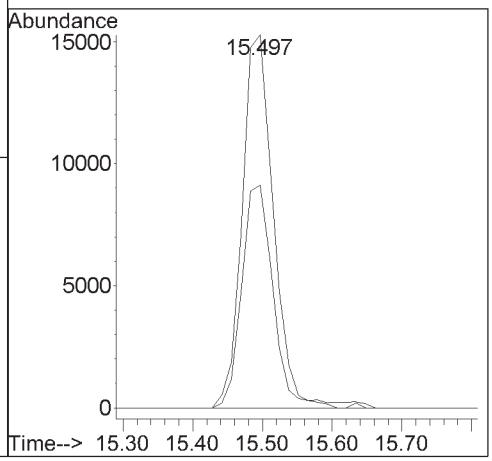


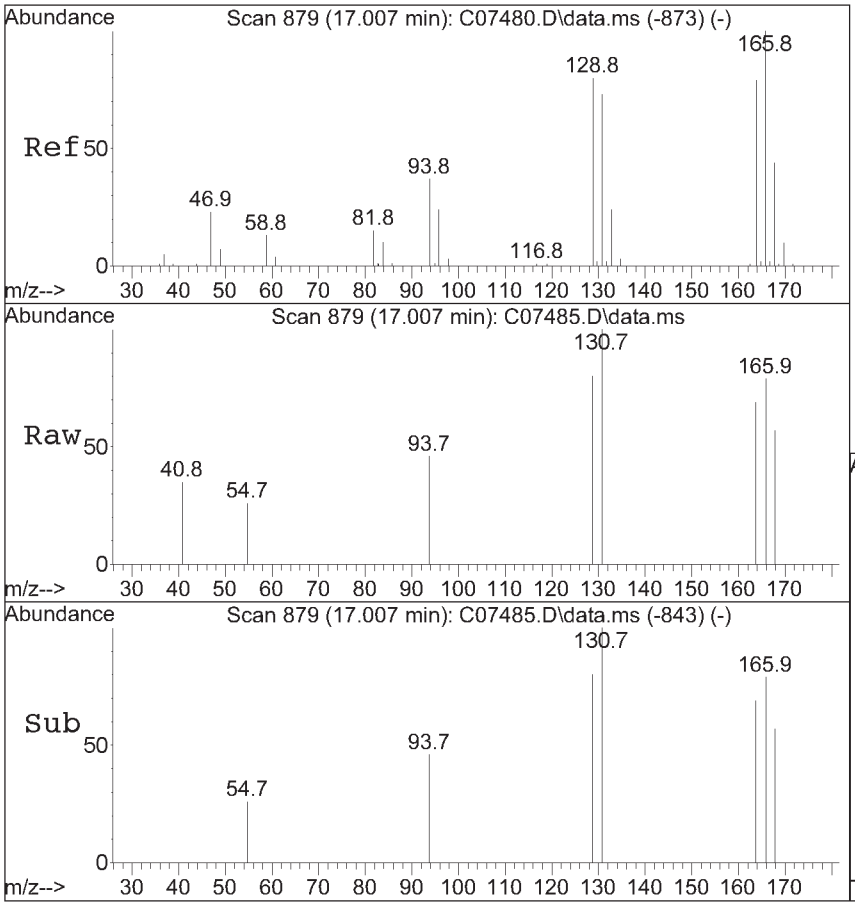


#48
TOLUENE
Concen: 0.54 PPBv
RT: 15.497 min Scan# 769
Delta R.T. 0.001 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 91 Resp: 481550

Ion	Ratio	Lower	Upper
91	100		
92	58.9	0.0	0.0#

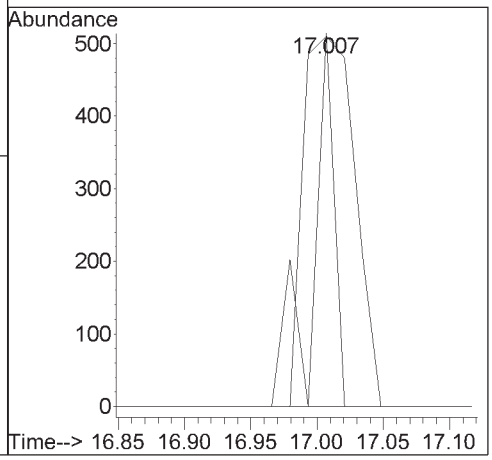


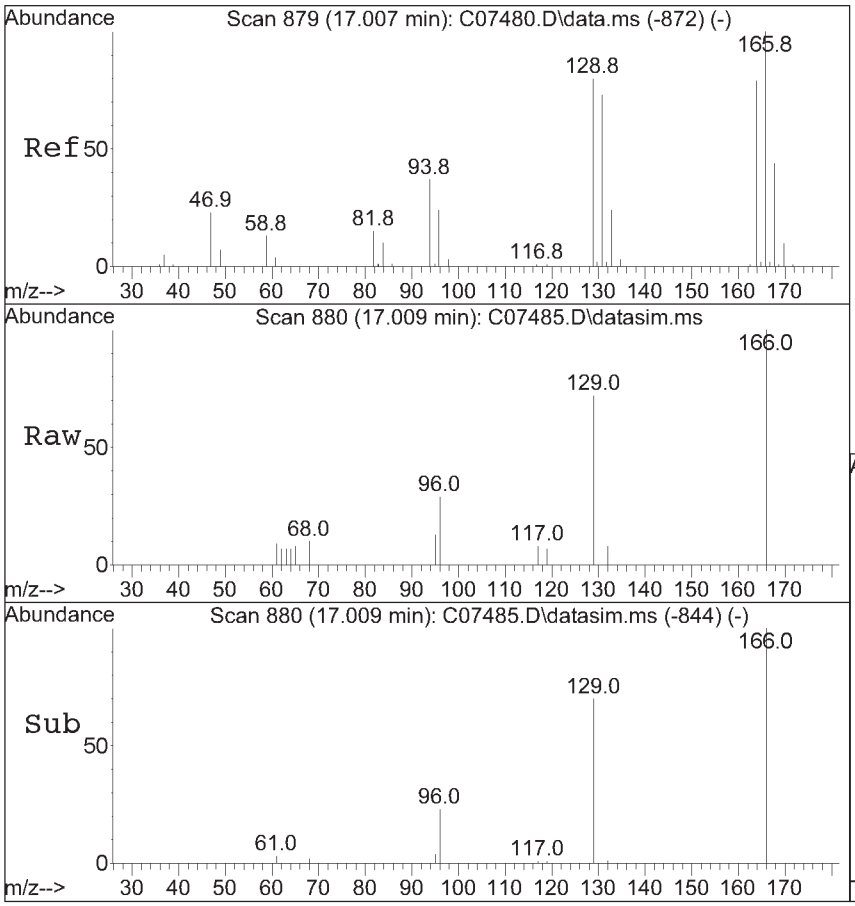


#52
TETRACHLOROETHENE
Concen: 0.03 PPBv m
RT: 17.007 min Scan# 879
Delta R.T. -0.001 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion:166 Resp: 13850

Ion	Ratio	Lower	Upper
166	100		
129	0.0	0.0	0.0
138	0.0	0.0	0.0

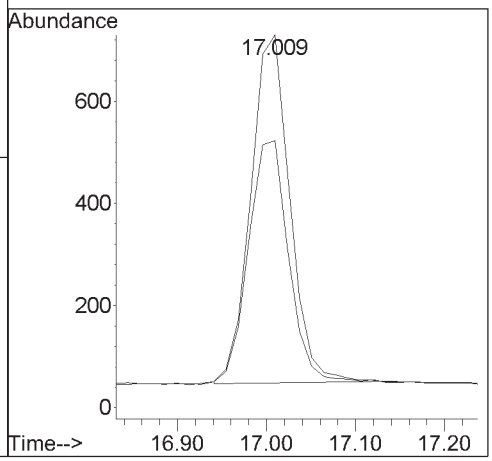


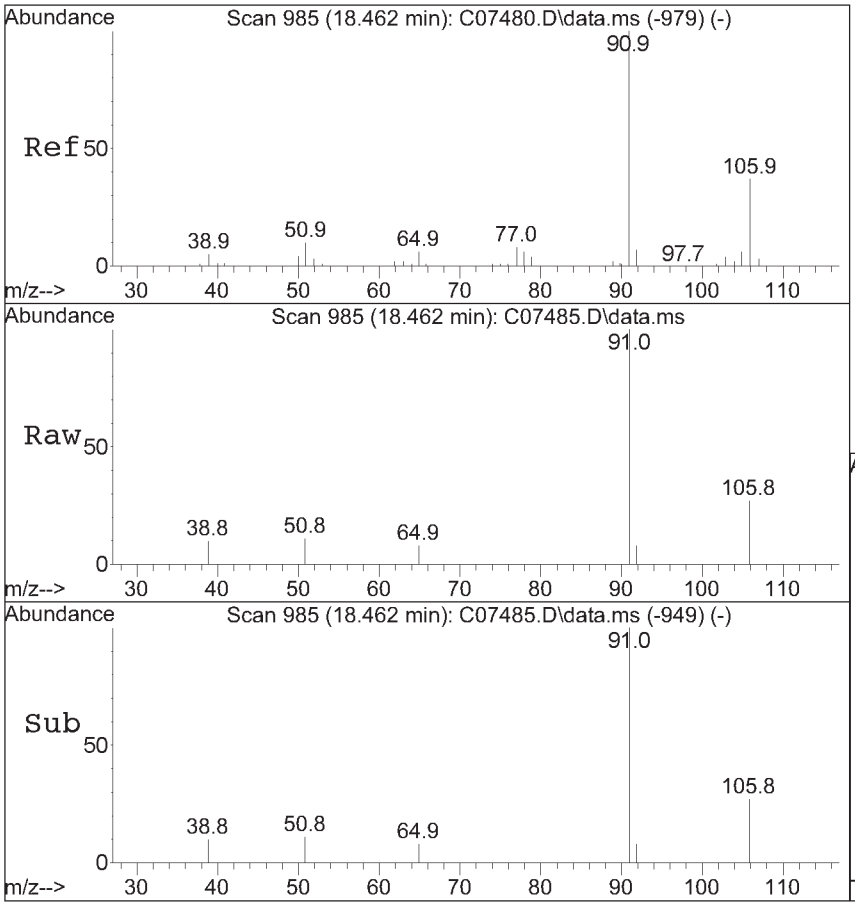


#53
TETRACHLOROETHENE (SIM)
Concen: 0.05 PPBv
RT: 17.009 min Scan# 880
Delta R.T. 0.000 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion:166 Resp: 20764

Ion	Ratio	Lower	Upper
166	100		
129	71.4	0.0	0.0#

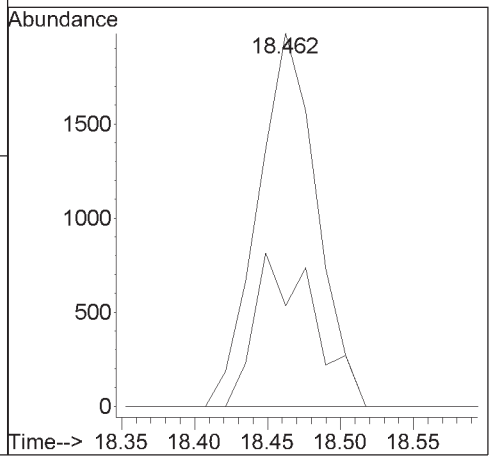


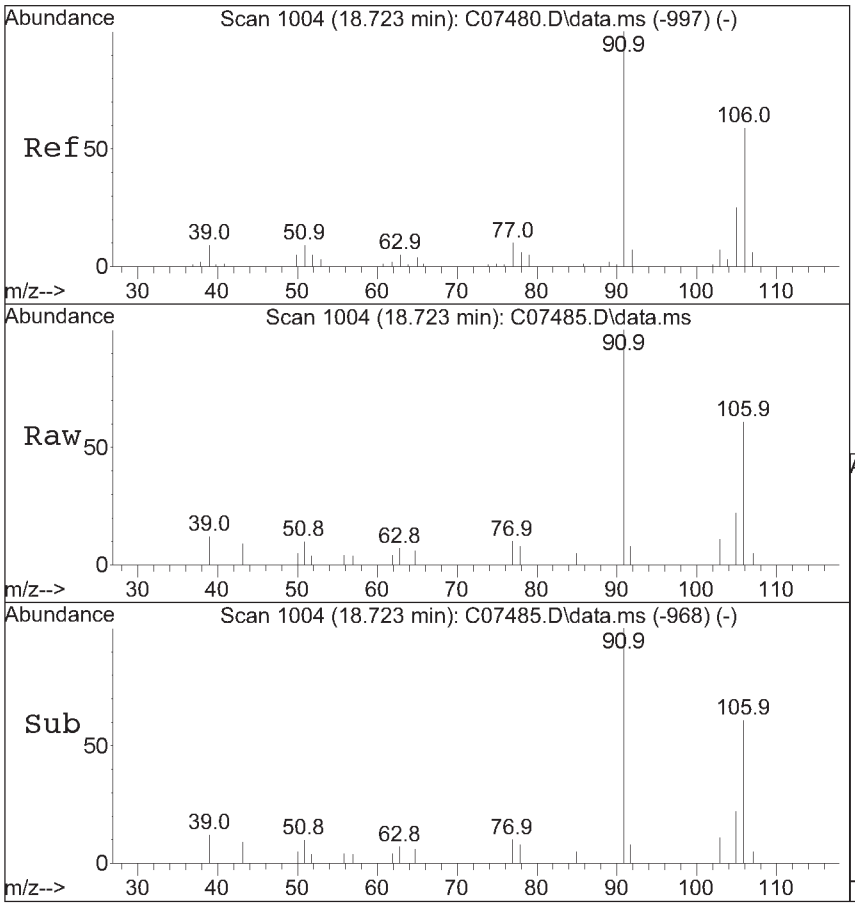


#57
ETHYLBENZENE
Concen: 0.06 PPBv
RT: 18.469 min Scan# 985
Delta R.T. -0.000 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion: 91 Resp: 55771

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

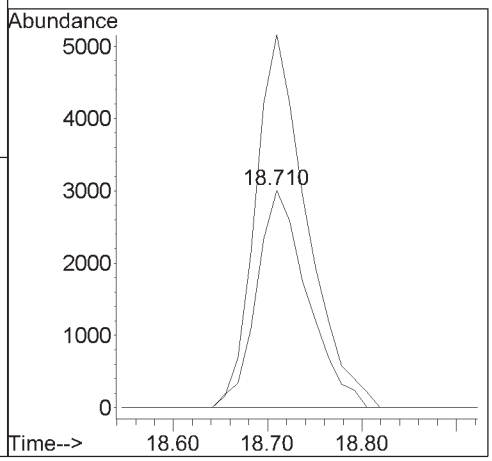


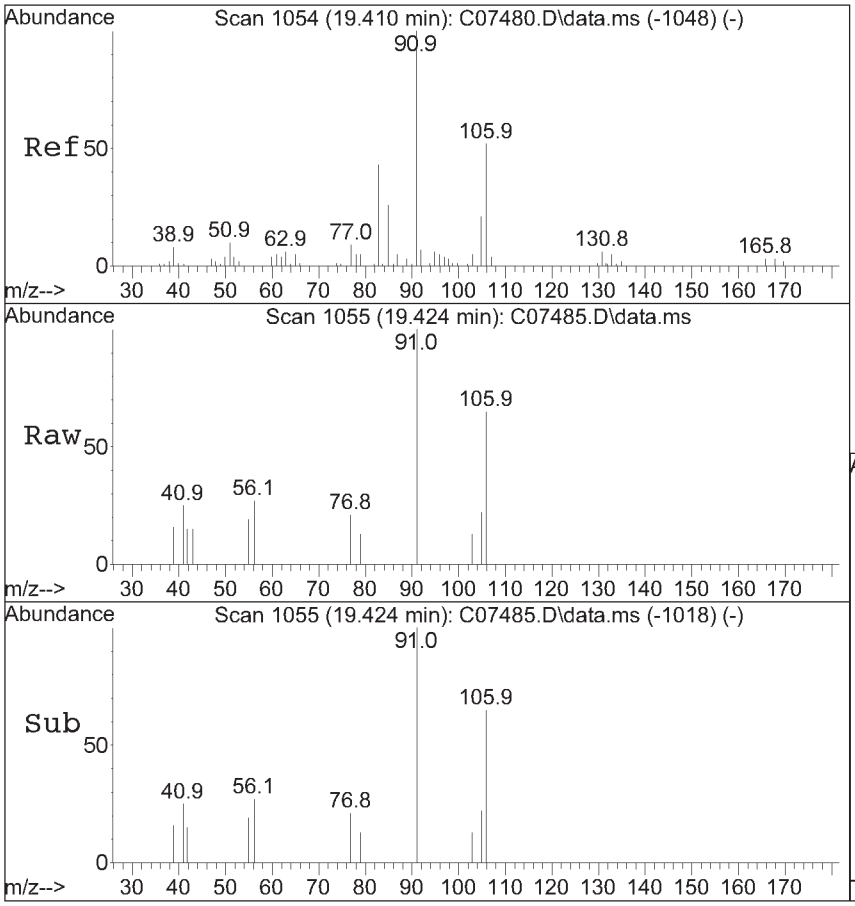


#58
M/P-XYLENE
Concen: 0.23 PPBv
RT: 18.717 min Scan# 1004
Delta R.T. -0.009 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion:106 Resp: 113265

Ion	Ratio	Lower	Upper
106	100		
91	173.1	0.0	0.0#

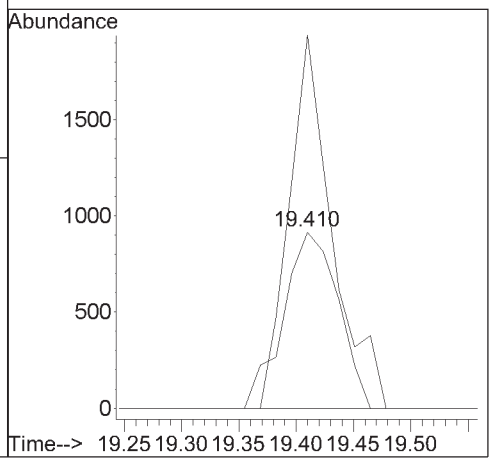


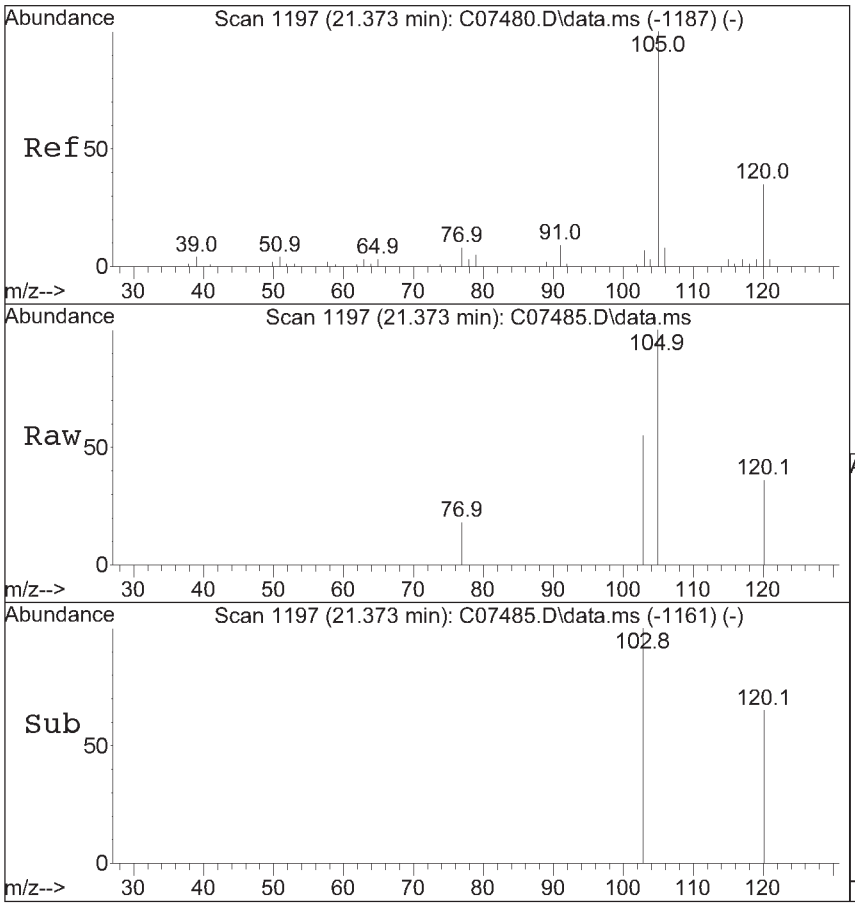


#61
O-XYLENE
Concen: 0.07 PPBv
RT: 19.418 min Scan# 1055
Delta R.T. 0.001 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion:106 Resp: 30550

Ion	Ratio	Lower	Upper
106	100		
91	166.2	0.0	0.0#

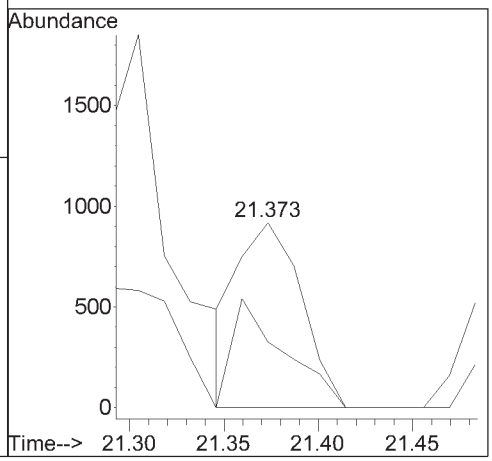


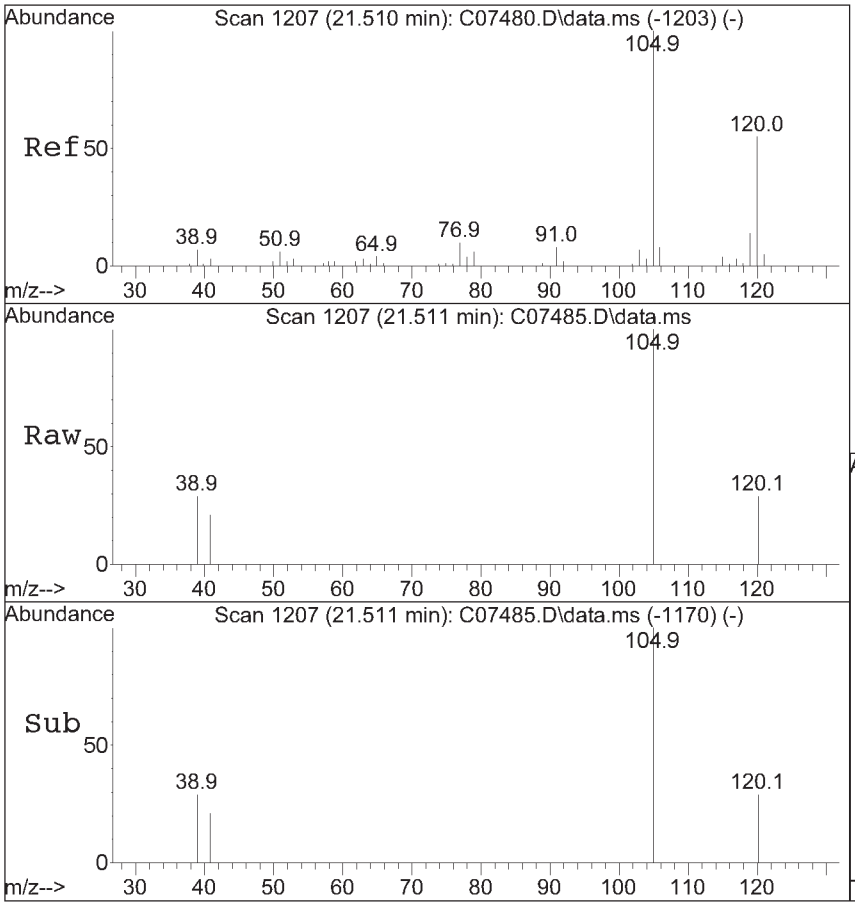


#65
4-ETHYLTOLUENE
Concen: 0.02 PPBv m
RT: 21.373 min Scan# 1197
Delta R.T. -0.004 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion:105 Resp: 25031

Ion	Ratio	Lower	Upper
105	100		
120	113.5	0.0	0.0#

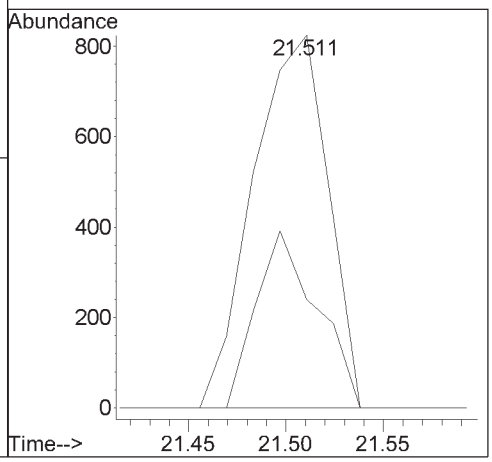


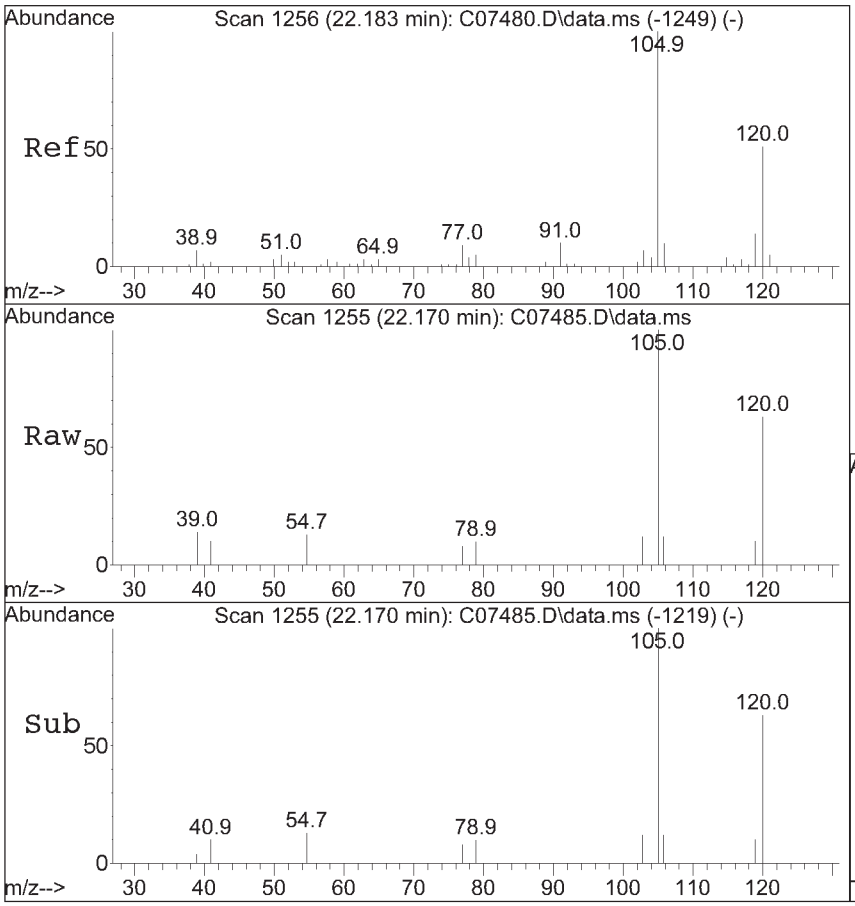


#66
1,3,5-TRIMETHYLBENZENE
Concen: 0.02 PPBv m
RT: 21.511 min Scan# 1207
Delta R.T. 0.004 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion:105 Resp: 21599

Ion	Ratio	Lower	Upper
105	100		
120	0.0	0.0	0.0

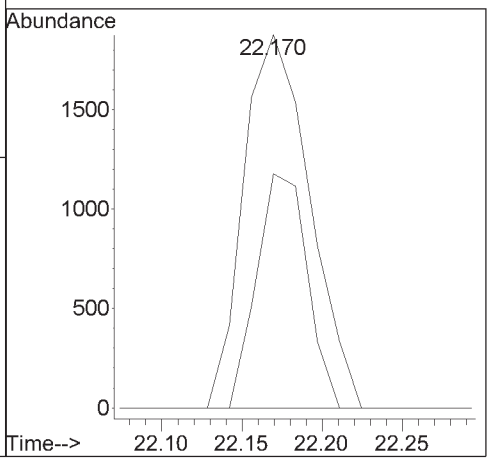




#67
1,2,4-TRIMETHYLBENZENE
Concen: 0.06 PPBv
RT: 22.175 min Scan# 1255
Delta R.T. -0.004 min
Lab File: C07485.D
Acq: 10 Mar 2011 3:10 pm

Tgt Ion:105 Resp: 53838

Ion	Ratio	Lower	Upper
105	100		
120	47.9	0.0	0.0#



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-SS2-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-03	File ID:	A39610.D
Sampled:	03/03/11 11:53			Analyzed:	03/08/11 18:51
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104127	Sequence:	S101712	Calibration:	1103003	Instrument:	Air1

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
115-07-1	Propene	0.0930	0.16	U
75-71-8	Dichlorodifluoromethane (Freon12)	0.770	3.81	
74-87-3	Chloromethane	0.455	0.94	U
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.390	2.73	U
75-01-4	Vinyl chloride	0.278	0.71	U
106-99-0	1,3-Butadiene	0.149	0.33	U
74-83-9	Bromomethane	0.249	0.97	U
75-00-3	Chloroethane	0.219	0.58	U
67-64-1	Acetone	37.0	87.92	
75-69-4	Trichlorofluoromethane (Freon 11)	0.460	2.59	J
64-17-5	Ethanol	2.57	4.85	
75-35-4	1,1-Dichloroethene	0.163	0.65	U
107-13-1	Acrylonitrile	0.0700	0.15	U
75-09-2	Methylene chloride	0.260	0.90	J
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.202	1.55	U
75-15-0	Carbon disulfide	0.270	0.84	J
156-60-5	trans-1,2-Dichloroethene	0.0660	0.26	U
75-34-3	1,1-Dichloroethane	0.150	0.61	U
1634-04-4	Methyl tert-butyl ether	0.0780	0.28	U
67-63-0	Isopropyl alcohol	1.42	3.48	
78-93-3	2-Butanone (MEK)	3.15	9.29	
156-59-2	cis-1,2-Dichloroethene	0.101	0.40	U
110-54-3	Hexane	0.630	2.22	
141-78-6	Ethyl acetate	0.334	1.20	U
67-66-3	Chloroform	0.310	1.51	J
109-99-9	Tetrahydrofuran	0.167	0.49	U
107-06-2	1,2-Dichloroethane	0.162	0.66	U
71-55-6	1,1,1-Trichloroethane	0.159	0.87	U
71-43-2	Benzene	0.520	1.66	
56-23-5	Carbon tetrachloride	0.176	1.11	U
110-82-7	Cyclohexane	0.0640	0.22	U
78-87-5	1,2-Dichloropropane	0.0730	0.34	U
75-27-4	Bromodichloromethane	0.127	0.85	U
79-01-6	Trichloroethene	0.0800	0.43	U
123-91-1	1,4-Dioxane	0.0870	0.31	U
142-82-5	n-Heptane	0.284	1.16	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1.37	5.61	
10061-01-5	cis-1,3-Dichloropropene	0.104	0.47	U
10061-02-6	trans-1,3-Dichloropropene	0.0670	0.30	U
79-00-5	1,1,2-Trichloroethane	0.125	0.68	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-SS2-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-03	File ID:	A39610.D
Sampled:	03/03/11 11:53			Analyzed:	03/08/11 18:51
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104127	Sequence:	S101712	Calibration:	1103003
Instrument:	Air1				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
108-88-3	Toluene	2.44	9.18	
591-78-6	2-Hexanone (MBK)	0.106	0.43	U
124-48-1	Dibromochloromethane	0.130	1.11	U
106-93-4	1,2-Dibromoethane (EDB)	0.0890	0.68	U
127-18-4	Tetrachloroethene	11.1	75.27	
108-90-7	Chlorobenzene	0.132	0.61	U
100-41-4	Ethylbenzene	0.0620	0.27	U
630-20-6	1,1,1,2-Tetrachloroethane	0.164	1.13	U
179601-23-1	m,p-Xylene	0.360	1.56	J
75-25-2	Bromoform	0.153	1.58	U
100-42-5	Styrene	0.0500	0.21	U
95-47-6	o-Xylene	0.110	0.48	U
79-34-5	1,1,2,2-Tetrachloroethane	0.170	1.17	U
108-67-8	1,3,5-Trimethylbenzene	0.211	1.04	U
622-96-8	4-Ethyltoluene	0.0940	0.46	U
95-63-6	1,2,4-Trimethylbenzene	0.0890	0.44	U
98-82-8	Isopropylbenzene	0.0930	0.46	U
541-73-1	1,3-Dichlorobenzene	0.124	0.75	U
100-44-7	Benzyl chloride	0.164	0.85	U
106-46-7	1,4-Dichlorobenzene	0.170	1.02	U
91-20-3	Naphthalene	0.183	0.96	U
95-50-1	1,2-Dichlorobenzene	0.150	0.90	U
120-82-1	1,2,4-Trichlorobenzene	0.335	2.49	U
87-68-3	Hexachlorobutadiene	0.140	1.49	U
135-98-8	sec-Butylbenzene	0.125	0.69	U
99-87-6	4-Isopropyltoluene	0.0880	0.47	U
104-51-8	n-Butylbenzene	0.0930	0.51	U

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\030811\A39610.D Vial: 10
Acq On : 8 Mar 2011 6:51 pm Operator: KG
Sample : sb25245-03 @ b1-ss2 1x to-15 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 9 17:19 2011 Quant Results File: T1022411.RES

Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

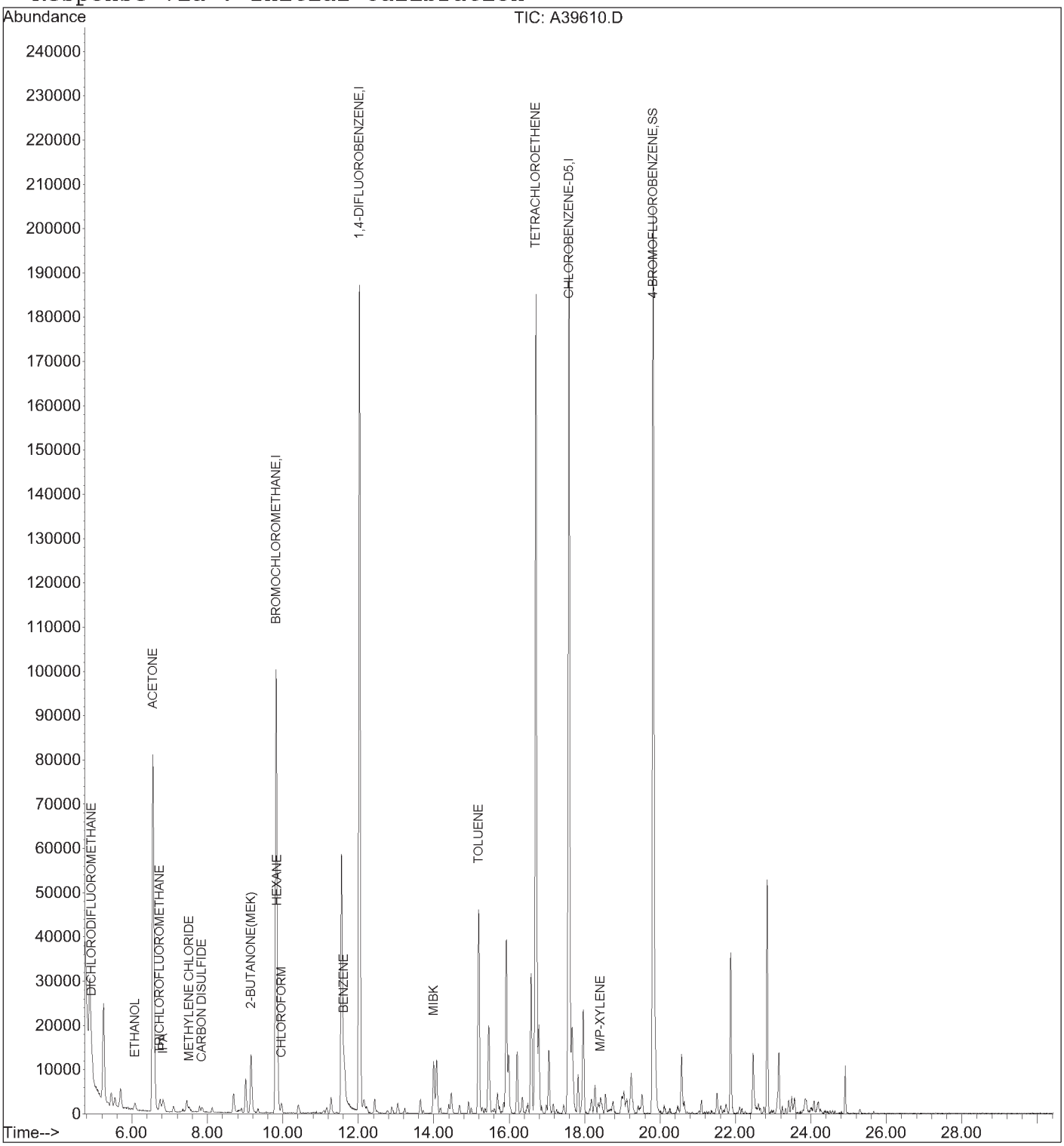
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.82	128	437255	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	12.03	114	2189940	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.58	82	1122016	10.00	PPBv		-0.02
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.82	95	1274343	10.18	PPBv		-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.80%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.94	85	88692m	0.77	PPBv		
10) ACETONE	6.55	58	504881	36.98	PPBv		83
11) TRICHLOROFLUOROMETHANE	6.75	101	41808	0.46	PPBv	#	18
12) ETHANOL	6.07	45	30085	2.57	PPBv	#	43
15) METHYLENE CHLORIDE	7.52	84	7497m	0.26	PPBv		
17) CARBON DISULFIDE	7.85	76	27632m	0.27	PPBv		
21) IPA	6.82	45	57856	1.42	PPBv	#	61
22) 2-BUTANONE(MEK)	9.16	72	68927m	3.15	PPBv		
24) HEXANE	9.86	57	42219	0.63	PPBv	#	28
26) CHLOROFORM	9.96	83	28089m	0.31	PPBv		
30) BENZENE	11.63	78	70113	0.52	PPBv		100
39) MIBK	14.00	43	135240	1.37	PPBv	#	86
43) TOLUENE	15.20	91	381206	2.44	PPBv		99
47) TETRACHLOROETHENE	16.71	166	841613	11.13	PPBv		98
52) M/P-XYLENE	18.42	106	27976m	0.36	PPBv		

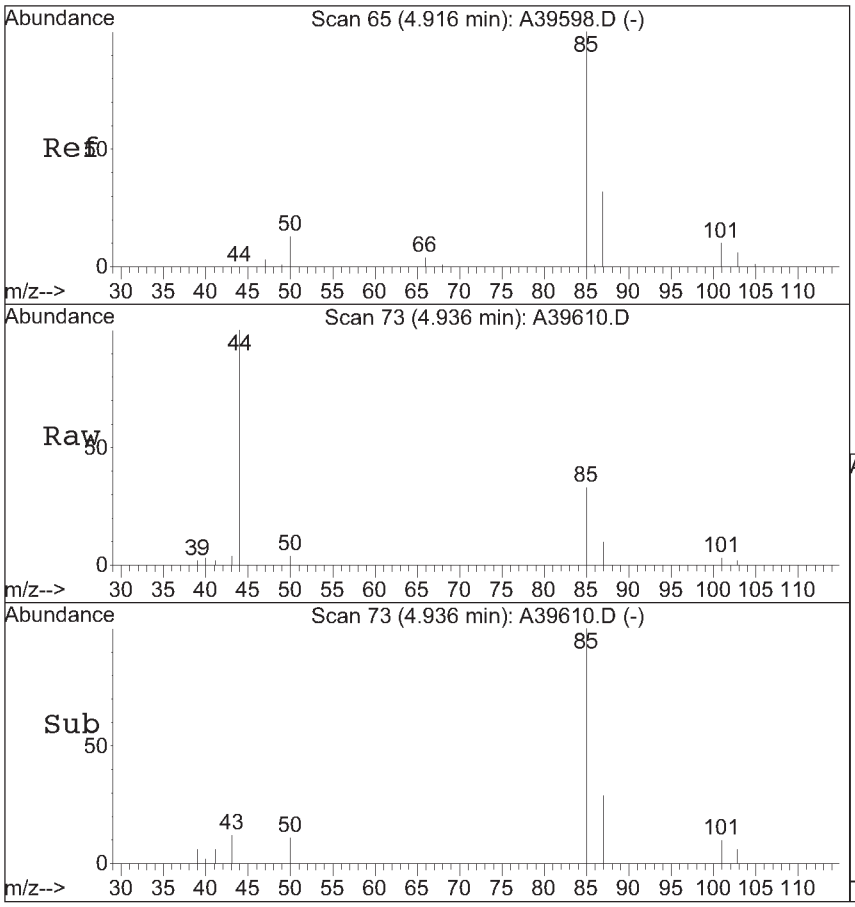
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030811\A39610.D Vial: 10
Acq On : 8 Mar 2011 6:51 pm Operator: KG
Sample : sb25245-03 @ b1-ss2 1x to-15 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 9 17:19 2011 Quant Results File: T1022411.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration

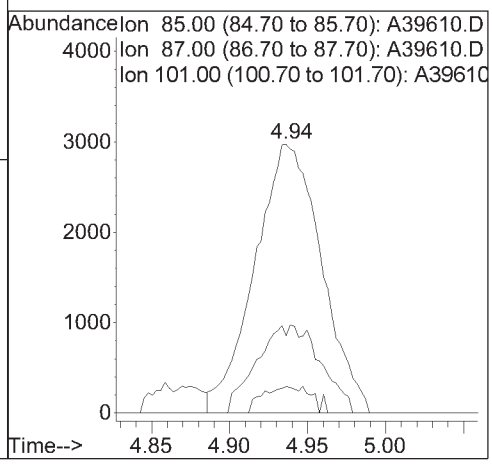


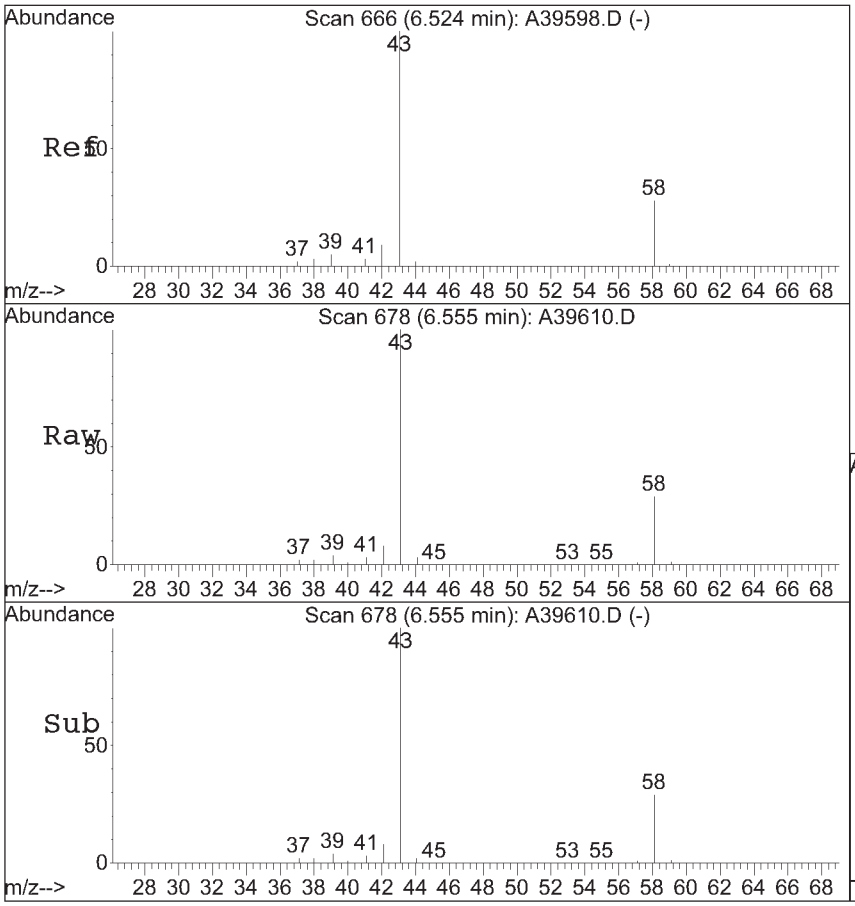


#3
DICHLORODIFLUOROMETHANE
Concen: 0.77 PPBv m
RT: 4.94 min Scan# 73
Delta R.T. 0.03 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion: 85 Resp: 88692

Ion	Ratio	Lower	Upper
85	100		
87	0.0	26.1	39.1#
101	0.0	7.4	11.0#

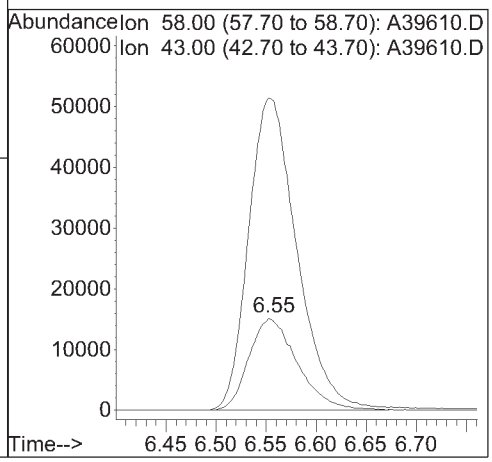


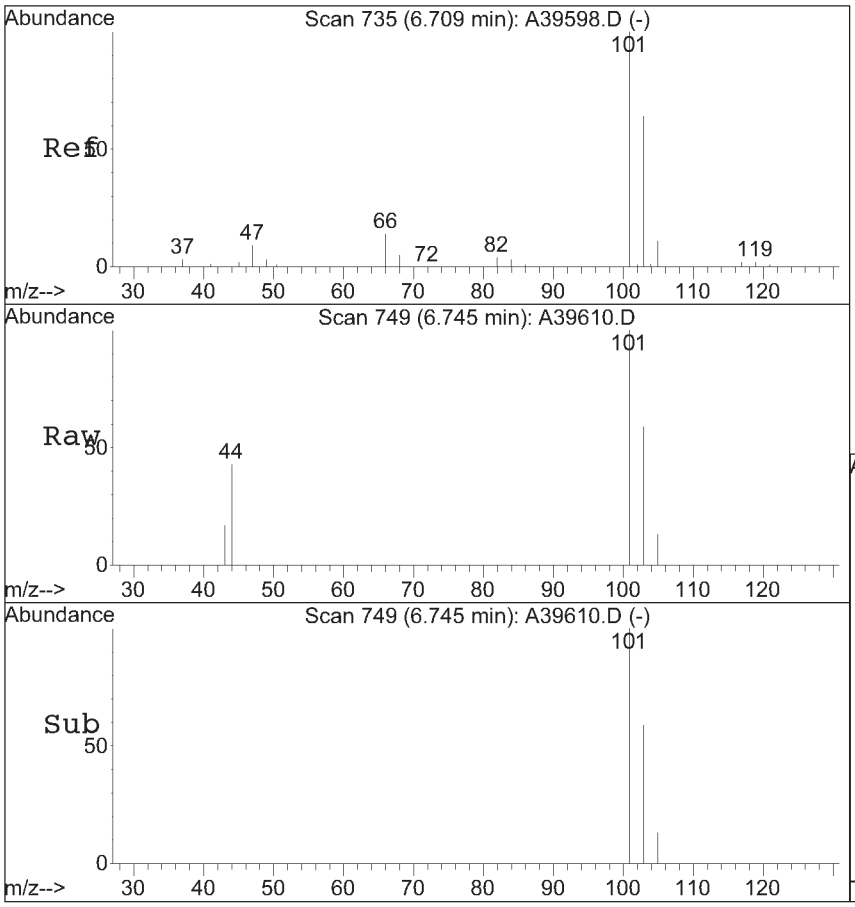


#10
ACETONE
Concen: 36.98 PPBv
RT: 6.55 min Scan# 678
Delta R.T. 0.02 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion: 58 Resp: 504881

Ion	Ratio	Lower	Upper
58	100		
43	335.8	300.2	450.4

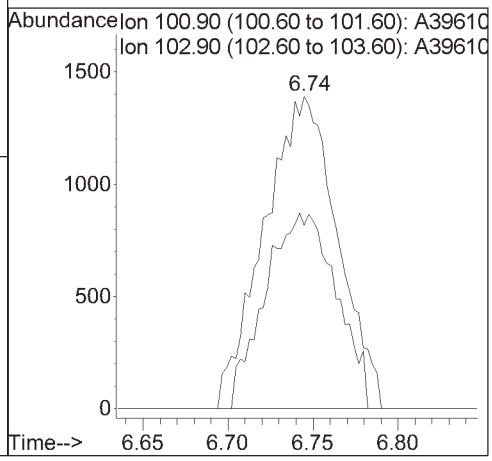


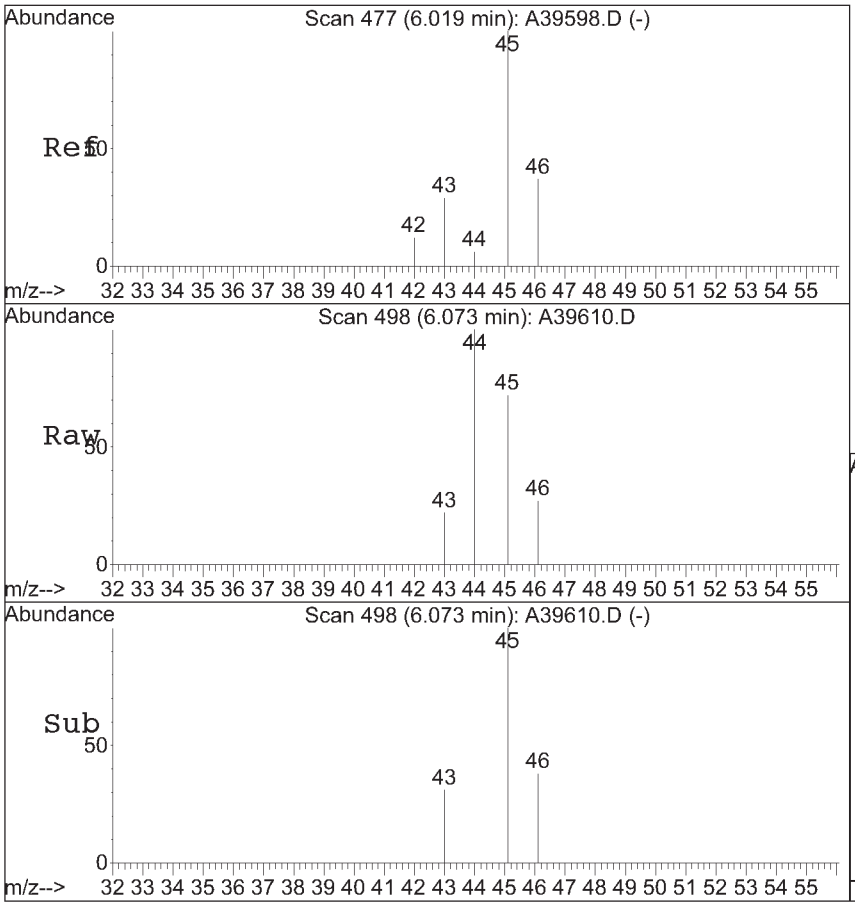


#11
TRICHLOROFLUOROMETHANE
Concen: 0.46 PPBv
RT: 6.75 min Scan# 749
Delta R.T. 0.03 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion:101 Resp: 41808

Ion	Ratio	Lower	Upper
101	100		
103	0.0	51.8	77.6#

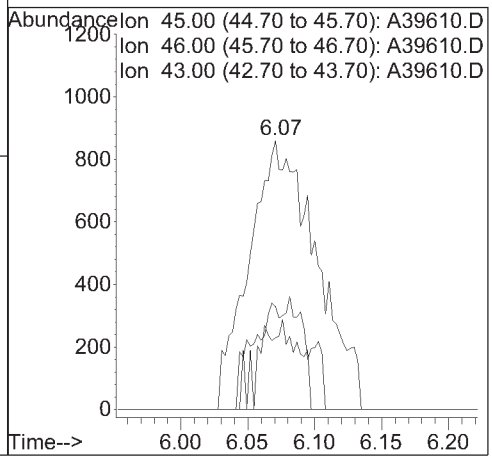


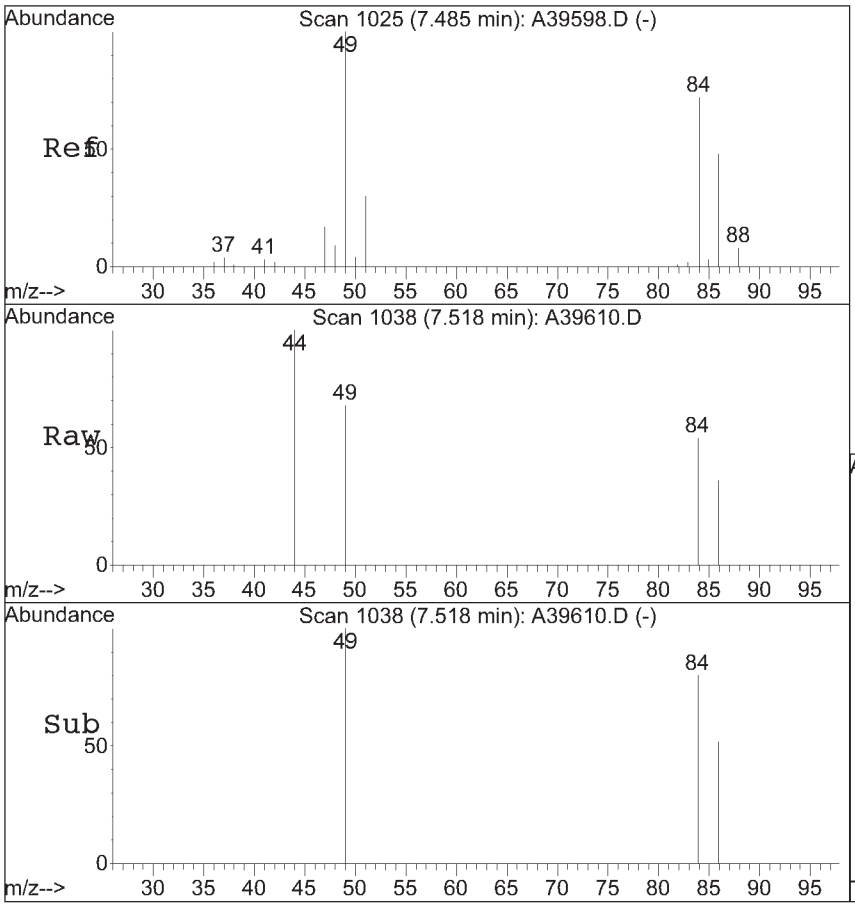


#12
ETHANOL
Concen: 2.57 PPBv
RT: 6.07 min Scan# 498
Delta R.T. 0.05 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion: 45 Resp: 30085

Ion	Ratio	Lower	Upper
45	100		
46	0.0	30.6	46.0#
43	0.0	18.0	27.0#

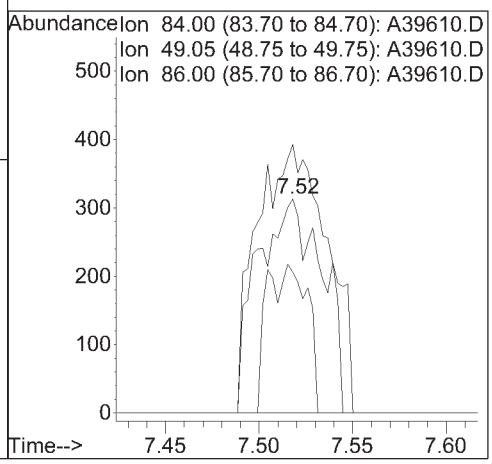


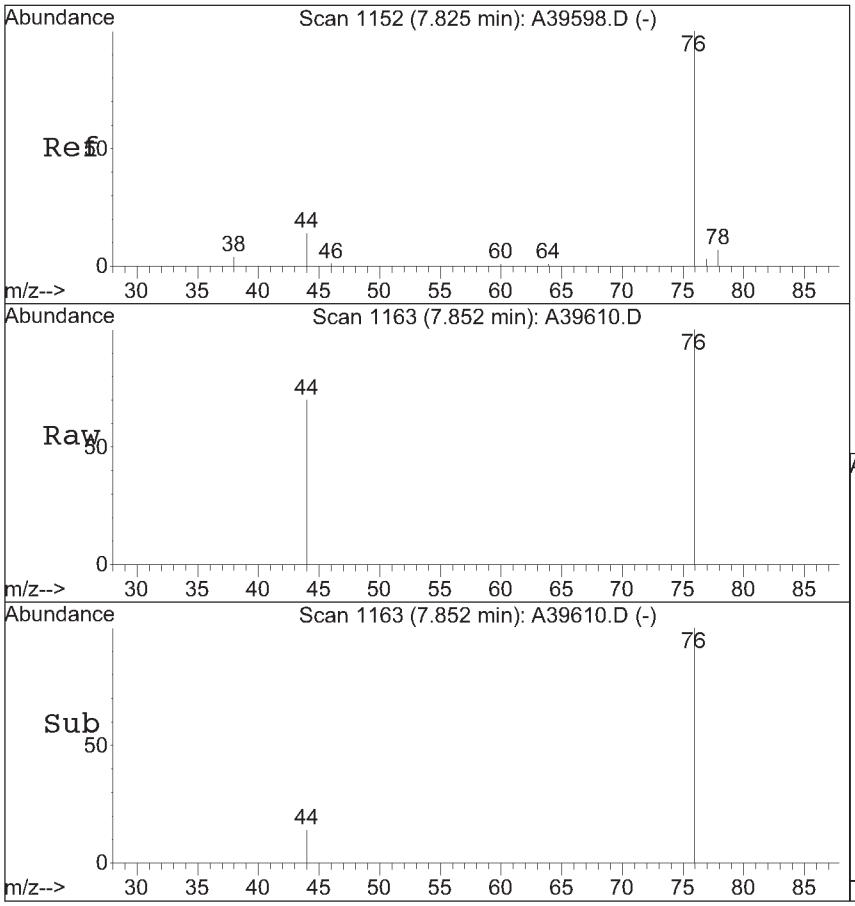


#15
METHYLENE CHLORIDE
Concen: 0.26 PPBv m
RT: 7.52 min Scan# 1038
Delta R.T. 0.02 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion: 84 Resp: 7497

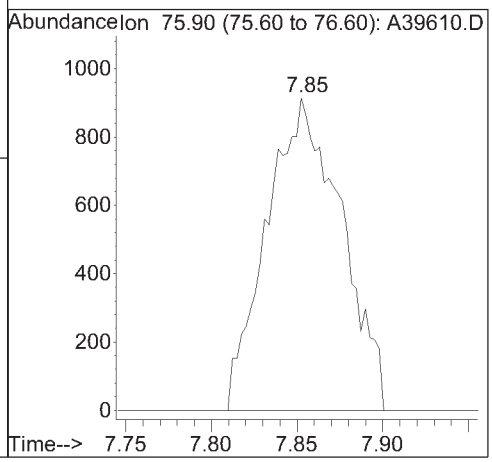
Ion	Ratio	Lower	Upper
84	100		
49	0.0	120.3	180.5#
86	0.0	52.6	78.8#

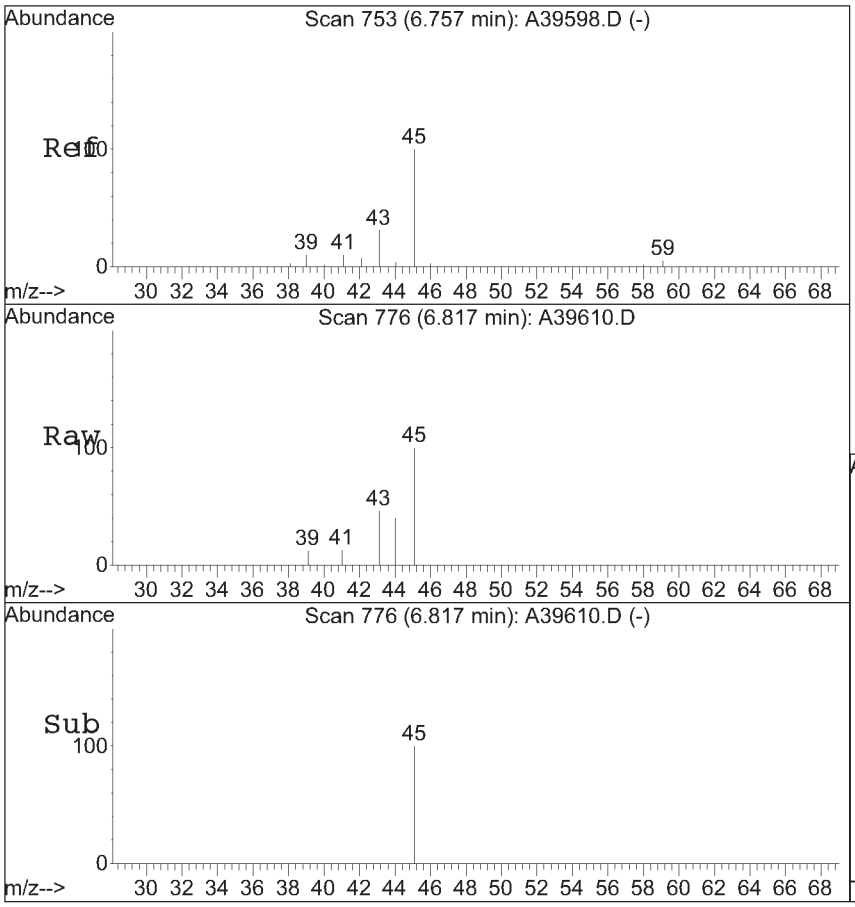




#17
CARBON DISULFIDE
Concen: 0.27 PPBv m
RT: 7.85 min Scan# 1163
Delta R.T. 0.02 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion: 76 Resp: 27632

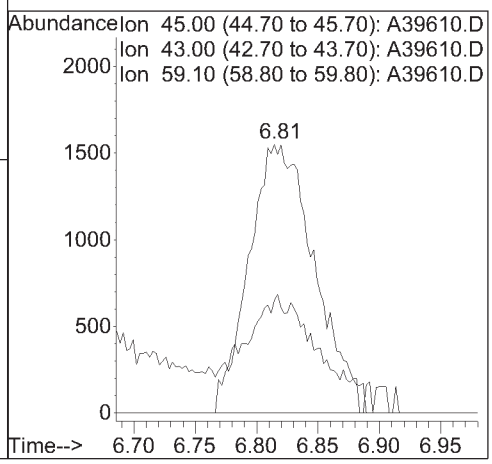


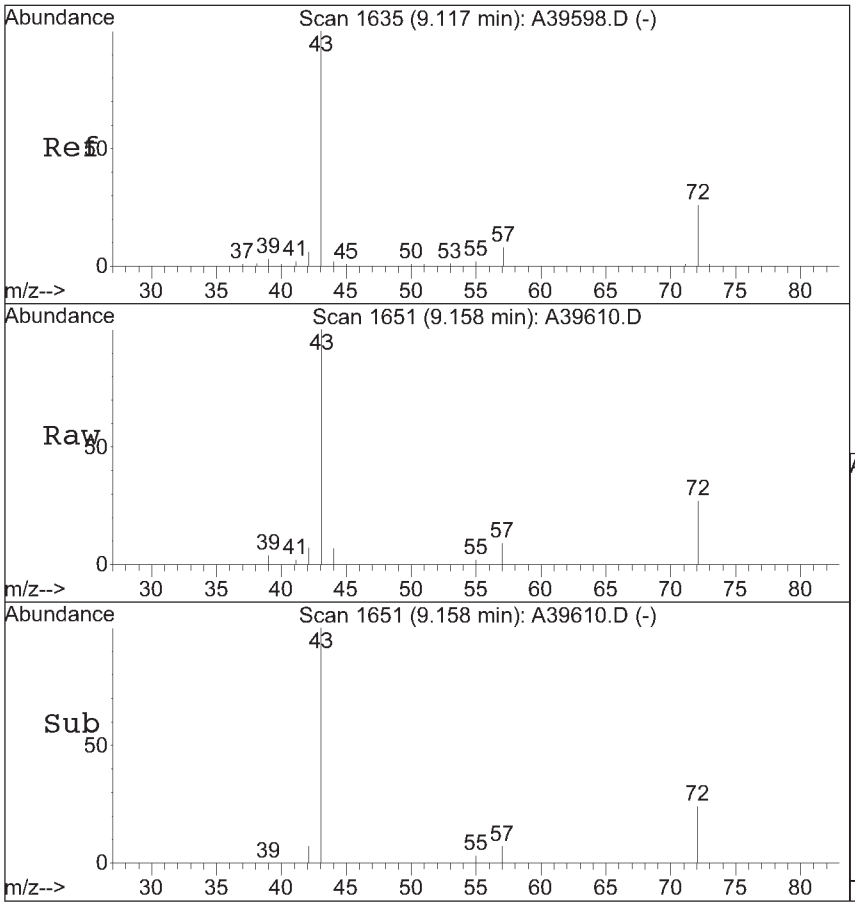


#21
IPA
Concen: 1.42 PPBv
RT: 6.82 min Scan# 776
Delta R.T. 0.05 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion: 45 Resp: 57856

Ion	Ratio	Lower	Upper
45	100		
43	0.0	16.2	24.2#
59	0.0	3.0	4.4#

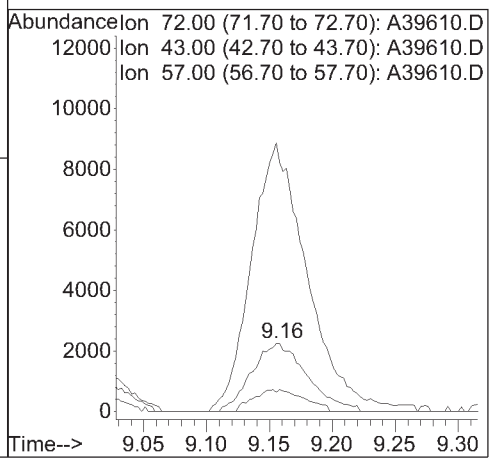


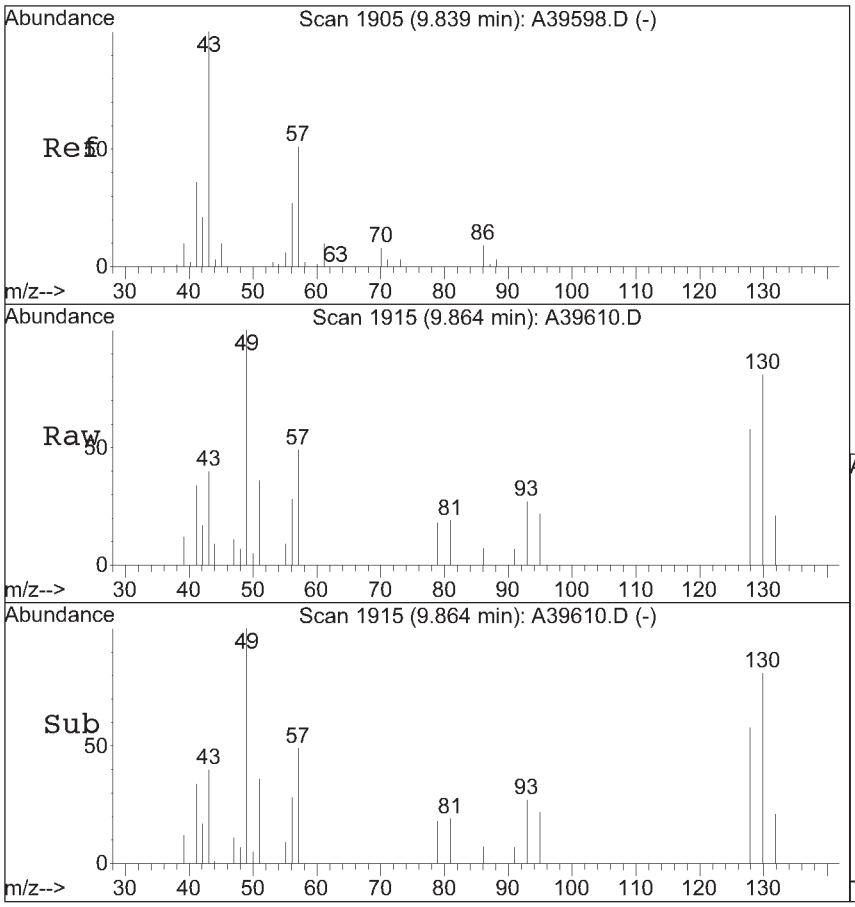


#22
2-BUTANONE(MEK)
Concen: 3.15 PPBv m
RT: 9.16 min Scan# 1651
Delta R.T. 0.02 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion: 72 Resp: 68927

Ion	Ratio	Lower	Upper
72	100		
43	385.1	222.2	333.4#
57	29.5	987.4	1481.0#

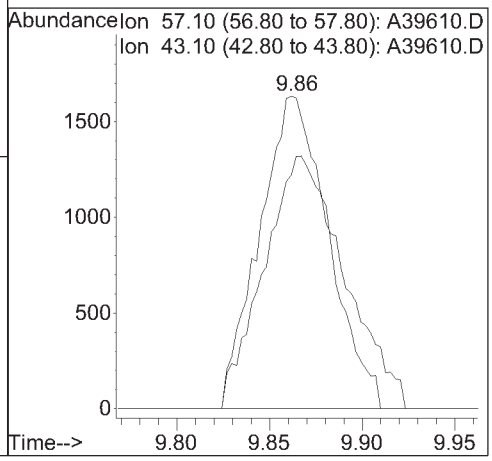


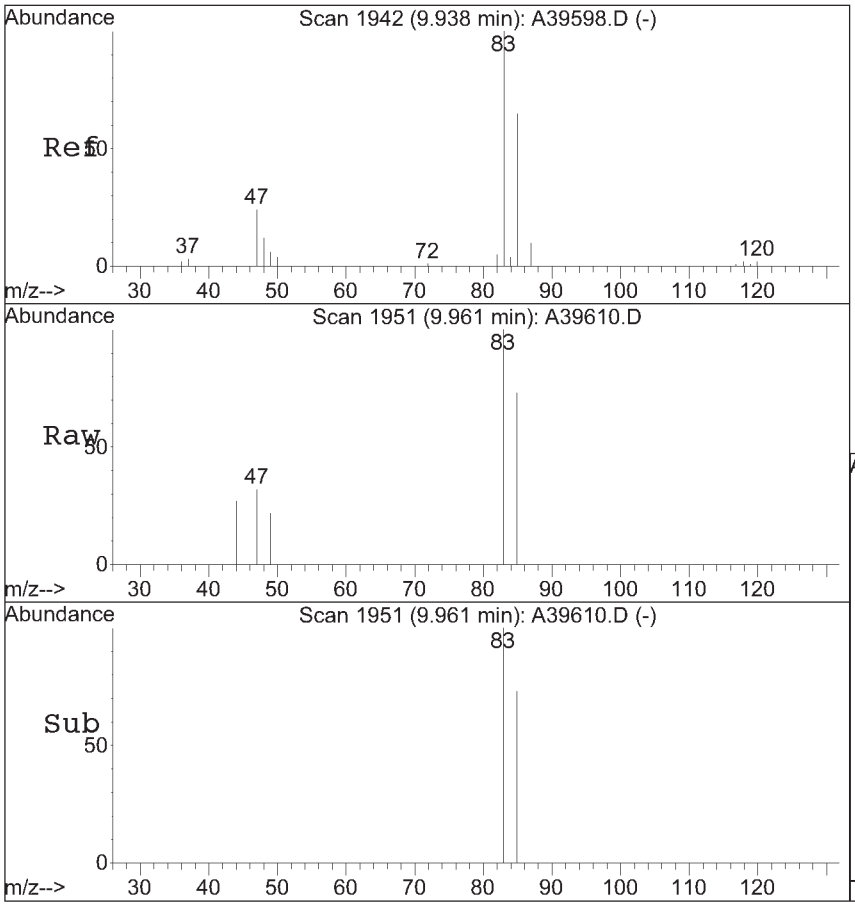


#24
HEXANE
Concen: 0.63 PPBv
RT: 9.86 min Scan# 1915
Delta R.T. 0.01 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion: 57 Resp: 42219

Ion	Ratio	Lower	Upper
57	100		
43	94.0	163.9	245.9#

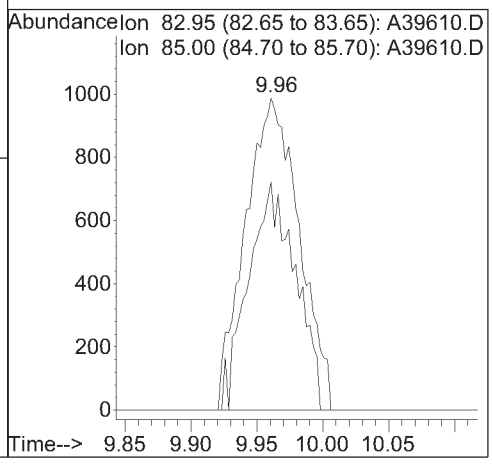


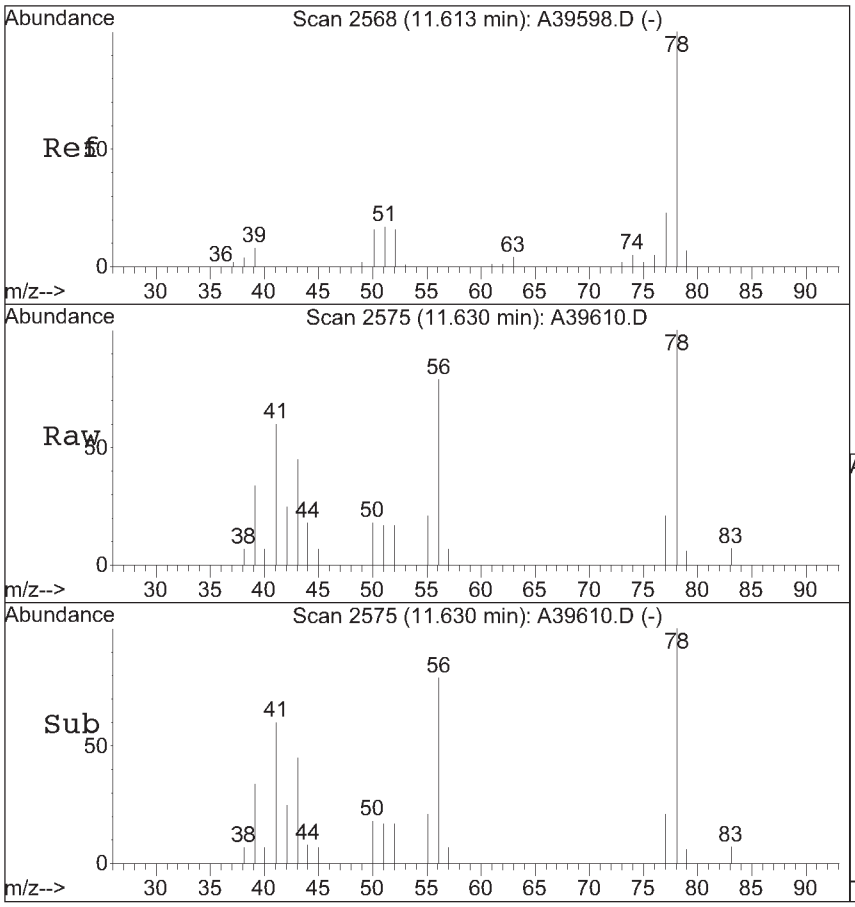


#26
CHLOROFORM
Concen: 0.31 PPBv m
RT: 9.96 min Scan# 1951
Delta R.T. 0.00 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion: 83 Resp: 28089

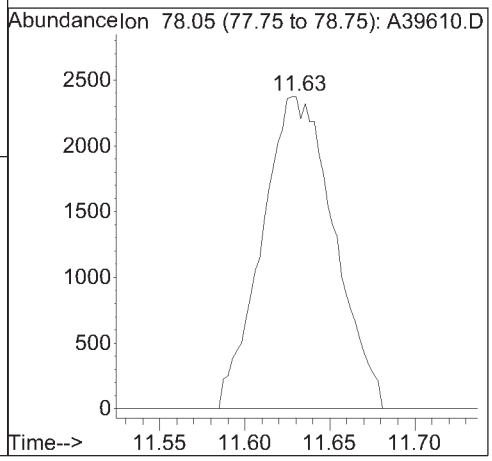
Ion	Ratio	Lower	Upper
83	100		
85	0.0	52.1	78.1#

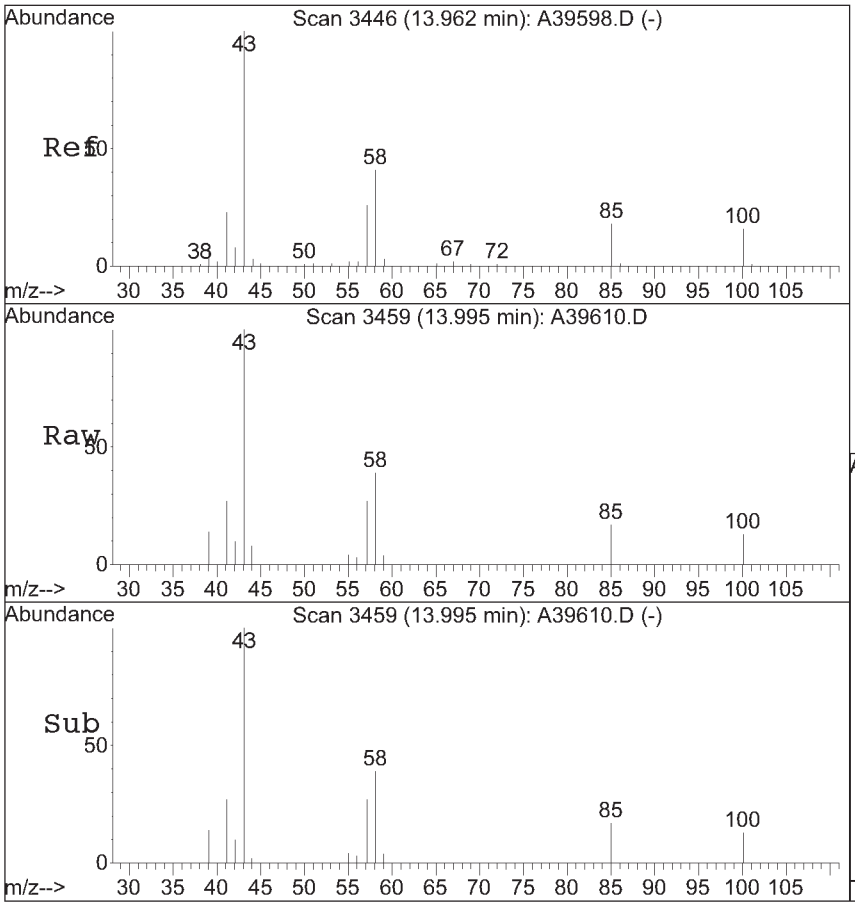




#30
BENZENE
Concen: 0.52 PPBv
RT: 11.63 min Scan# 2575
Delta R.T. -0.00 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion: 78 Resp: 70113

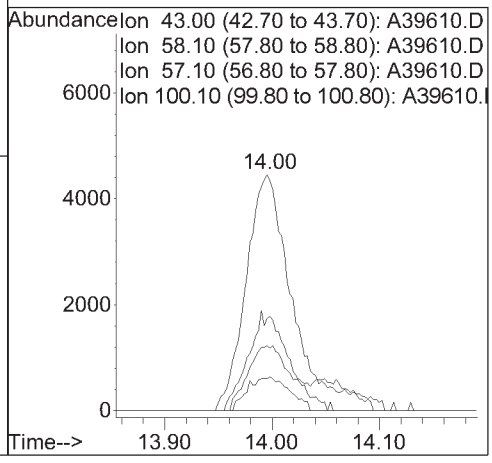


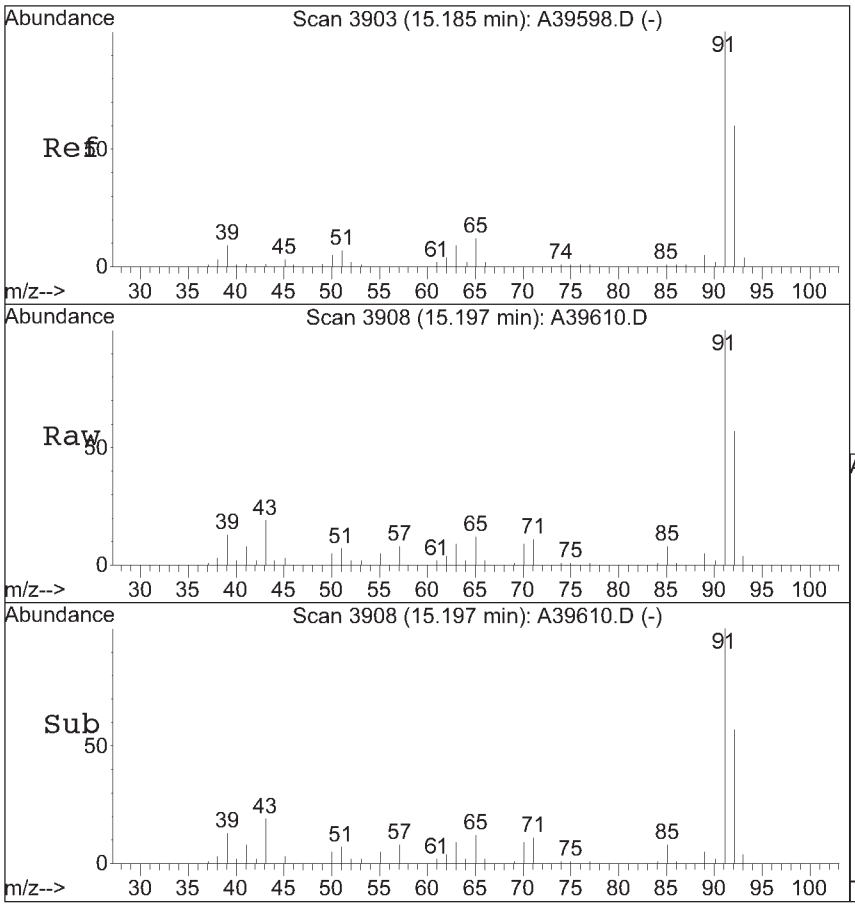


#39
MIBK
Concen: 1.37 PPBv
RT: 14.00 min Scan# 3459
Delta R.T. 0.01 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion: 43 Resp: 135240

Ion	Ratio	Lower	Upper
43	100		
58	36.0	30.6	45.8
57	35.6	21.3	31.9#
100	0.0	11.1	16.7#

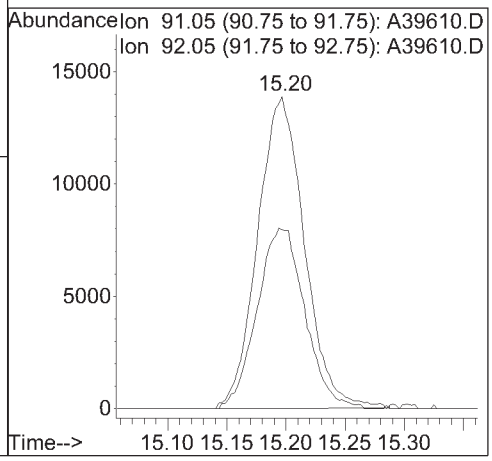


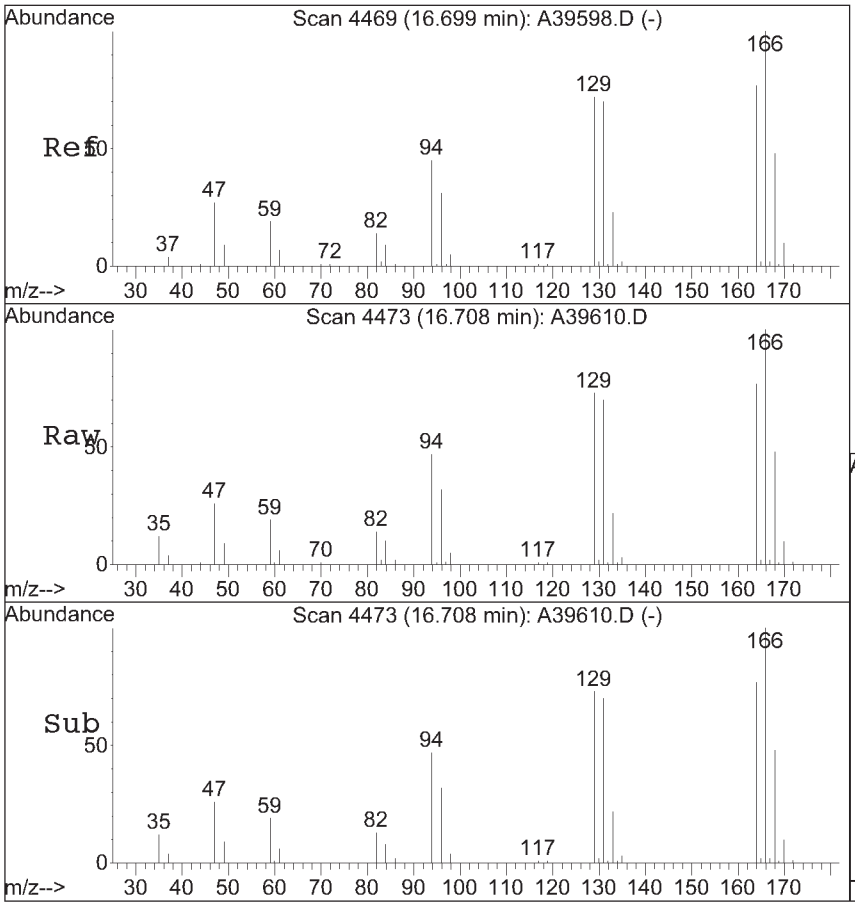


#43
TOLUENE
Concen: 2.44 PPBv
RT: 15.20 min Scan# 3908
Delta R.T. -0.01 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion: 91 Resp: 381206

Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.1	72.1

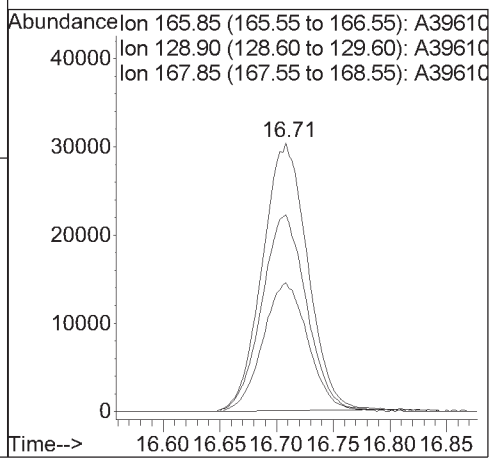


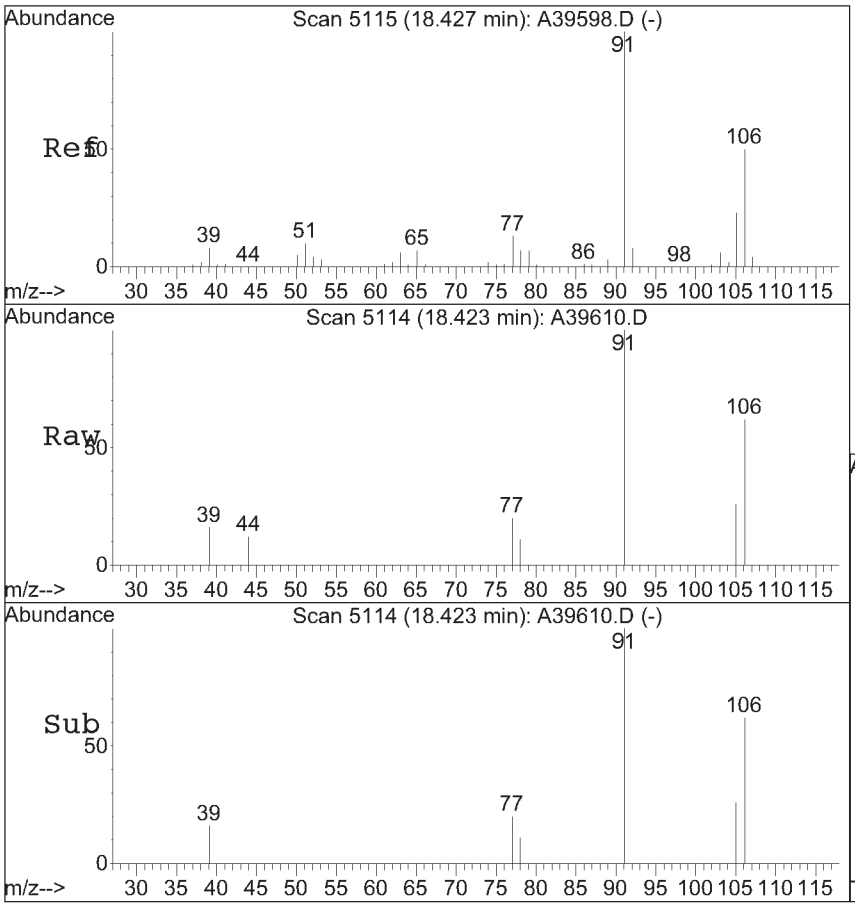


#47
TETRACHLOROETHENE
Concen: 11.13 PPBv
RT: 16.71 min Scan# 4473
Delta R.T. -0.02 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion:166 Resp: 841613

Ion	Ratio	Lower	Upper
166	100		
129	72.6	56.6	84.8
168	48.5	38.0	57.0

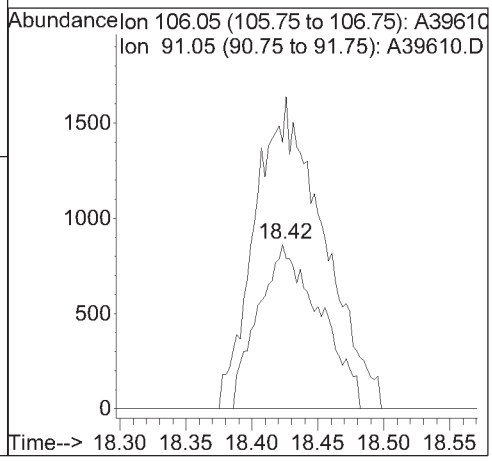




#52
M/P-XYLENE
Concen: 0.36 PPBv m
RT: 18.42 min Scan# 5114
Delta R.T. -0.03 min
Lab File: A39610.D
Acq: 8 Mar 2011 6:51 pm

Tgt Ion:106 Resp: 27976

Ion	Ratio	Lower	Upper
106	100		
91	0.0	155.7	233.5#



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B3-IA1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-04	File ID:	C07486.D
Sampled:	03/03/11 09:45			Analyzed:	03/10/11 16:04
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
71-55-6	1,1,1-Trichloroethane	0.052000	0.28	U
115-07-1	Propene	0.084000	0.14	U
75-71-8	Dichlorodifluoromethane (Freon12)	0.43000	2.13	
74-87-3	Chloromethane	0.48000	0.99	
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.057000	0.40	U
75-01-4	Vinyl chloride	0.064000	0.16	U
106-99-0	1,3-Butadiene	0.055000	0.12	U
74-83-9	Bromomethane	0.052000	0.20	U
75-00-3	Chloroethane	0.076000	0.20	U
67-64-1	Acetone	3.4600	8.22	
75-69-4	Trichlorofluoromethane (Freon 11)	0.27000	1.52	
64-17-5	Ethanol	12.690	23.93	E
75-35-4	1,1-Dichloroethene	0.073000	0.29	U
107-13-1	Acrylonitrile	0.064000	0.14	U
75-09-2	Methylene chloride	0.22000	0.76	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.090000	0.69	J
75-15-0	Carbon disulfide	0.057000	0.18	U
156-60-5	trans-1,2-Dichloroethene	0.042000	0.17	U
75-34-3	1,1-Dichloroethane	0.049000	0.20	U
1634-04-4	Methyl tert-butyl ether	0.049000	0.18	U
67-63-0	Isopropyl alcohol	0.56000	1.37	
78-93-3	2-Butanone (MEK)	0.55000	1.62	
156-59-2	cis-1,2-Dichloroethene	0.049000	0.19	U
110-54-3	Hexane	0.73000	2.57	
141-78-6	Ethyl acetate	0.090000	0.32	J
67-66-3	Chloroform	0.045000	0.22	U
109-99-9	Tetrahydrofuran	0.053000	0.16	U
107-06-2	1,2-Dichloroethane	0.046000	0.19	U
71-43-2	Benzene	0.42000	1.34	
56-23-5	Carbon tetrachloride	0.080000	0.50	J
110-82-7	Cyclohexane	0.081000	0.28	U
78-87-5	1,2-Dichloropropane	0.049000	0.23	U
75-27-4	Bromodichloromethane	0.053000	0.36	U
79-01-6	Trichloroethene	0.052000	0.28	U
123-91-1	1,4-Dioxane	0.067000	0.24	U
142-82-5	n-Heptane	0.15000	0.61	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.053000	0.22	U
10061-01-5	cis-1,3-Dichloropropene	0.047000	0.21	U
10061-02-6	trans-1,3-Dichloropropene	0.047000	0.21	U
79-00-5	1,1,2-Trichloroethane	0.066000	0.36	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B3-IA1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-04	File ID:	C07486.D
Sampled:	03/03/11 09:45			Analyzed:	03/10/11 16:04
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
108-88-3	Toluene	2.7600	10.39	
591-78-6	2-Hexanone (MBK)	0.042000	0.17	U
124-48-1	Dibromochloromethane	0.059000	0.50	U
106-93-4	1,2-Dibromoethane (EDB)	0.043000	0.33	U
127-18-4	Tetrachloroethene	0.24000	1.63	
108-90-7	Chlorobenzene	0.061000	0.28	U
100-41-4	Ethylbenzene	0.16000	0.69	
630-20-6	1,1,1,2-Tetrachloroethane	0.047000	0.32	U
179601-23-1	m,p-Xylene	0.51000	2.21	
75-25-2	Bromoform	0.046000	0.48	U
100-42-5	Styrene	0.71000	3.02	
95-47-6	o-Xylene	0.19000	0.82	
79-34-5	1,1,2,2-Tetrachloroethane	0.066000	0.45	U
108-67-8	1,3,5-Trimethylbenzene	0.070000	0.34	J
622-96-8	4-Ethyltoluene	0.070000	0.34	J
95-63-6	1,2,4-Trimethylbenzene	0.24000	1.18	
98-82-8	Isopropylbenzene	0.056000	0.28	U
541-73-1	1,3-Dichlorobenzene	0.055000	0.33	U
100-44-7	Benzyl chloride	0.062000	0.32	U
106-46-7	1,4-Dichlorobenzene	0.061000	0.37	U
91-20-3	Naphthalene	0.18300	0.96	U
95-50-1	1,2-Dichlorobenzene	0.053000	0.32	U
120-82-1	1,2,4-Trichlorobenzene	0.053000	0.39	U
87-68-3	Hexachlorobutadiene	0.040000	0.43	U
135-98-8	sec-Butylbenzene	0.052000	0.29	U
99-87-6	4-Isopropyltoluene	0.062000	0.33	U
104-51-8	n-Butylbenzene	0.056000	0.31	U

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07486.D
Acq On : 10 Mar 2011 4:04 pm
Operator : KRL
Sample : sb25245-04 @ b3-ia1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 11 14:56:36 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

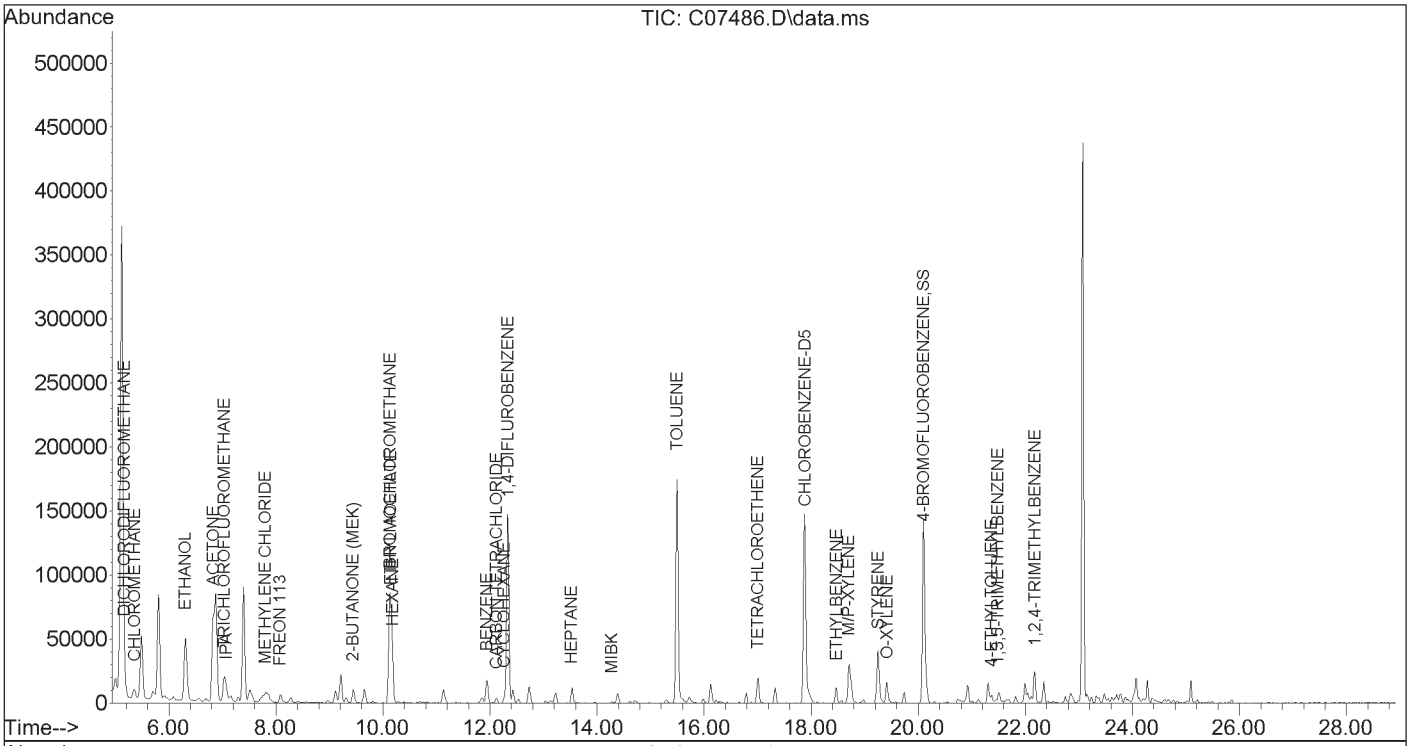
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	10.135	128	456748	10.00	PPBv	#	0.00
37) 1,4-DIFLUROBENZENE	12.336	114	2310286	10.00	PPBv		0.00
54) CHLOROBENZENE-D5	17.879	54	291455	10.00	PPBv	#	0.00
System Monitoring Compounds							
63) 4-BROMOFLUOROBENZENE	20.103	95	981508	9.67	PPBv		0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 96.70%#				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	5.171	85	283635m	0.43	PPBv		
4) CHLOROMETHANE	5.360	50	164342	0.48	PPBv	#	100
11) ACETONE	6.828	58	485372	3.46	PPBv	#	100
12) TRICHLOROFLUOROMETHANE	7.032	101	243585	0.27	PPBv	#	100
13) ETHANOL	6.315	45	1041108	12.69	PPBv	#	100
17) METHYLENE CHLORIDE	7.811	84	55866	0.22	PPBv	#	100
18) FREON 113	8.084	101	51303	0.09	PPBv	#	100
24) IPA	7.077	45	243146	0.56	PPBv	#	100
25) 2-BUTANONE (MEK)	9.448	72	54597	0.55	PPBv	#	100
27) HEXANE	10.177	57	245033	0.73	PPBv	#	100
28) ETHYL ACETATE	10.155	61	5686m	0.09	PPBv		
33) BENZENE	11.946	78	286811	0.42	PPBv		100
34) CARBON TETRACHLORIDE	12.125	119	38091	0.08	PPBv	#	100
35] CARBON TETRACHLORIDE (...	12.123	119	45775	0.07	PPBv	#	100
36) CYCLOHEXANE	12.270	56	28538m	0.08	PPBv		
43) HEPTANE	13.519	57	32470m	0.15	PPBv		
44) MIBK	14.274	43	18949m	0.04	PPBv		
48) TOLUENE	15.498	91	2307084	2.76	PPBv	#	100
52) TETRACHLOROETHENE	17.009	166	105954	0.24	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.009	166	128801	0.26	PPBv	#	100
57) ETHYLBENZENE	18.471	91	159406	0.16	PPBv	#	100
58) M/P-XYLENE	18.714	106	255381	0.51	PPBv	#	100
60) STYRENE	19.255	104	408850	0.71	PPBv	#	100
61) O-XYLENE	19.418	106	87397	0.19	PPBv	#	100
65) 4-ETHYLTOLUENE	21.373	105	78020	0.07	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.497	105	67802m	0.07	PPBv		
67) 1,2,4-TRIMETHYLBENZENE	22.178	105	216122	0.24	PPBv	#	100

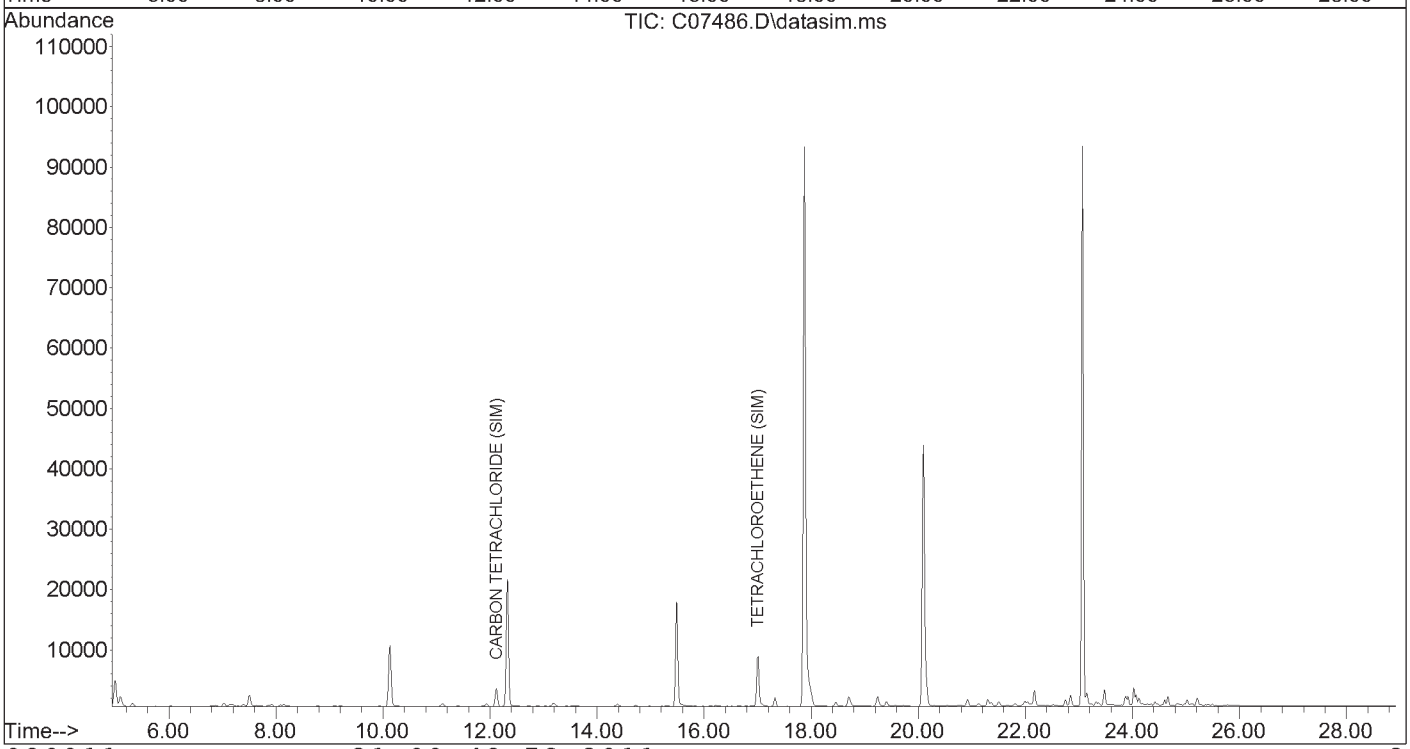
(#) = qualifier out of range (m) = manual integration (+) = signals summed

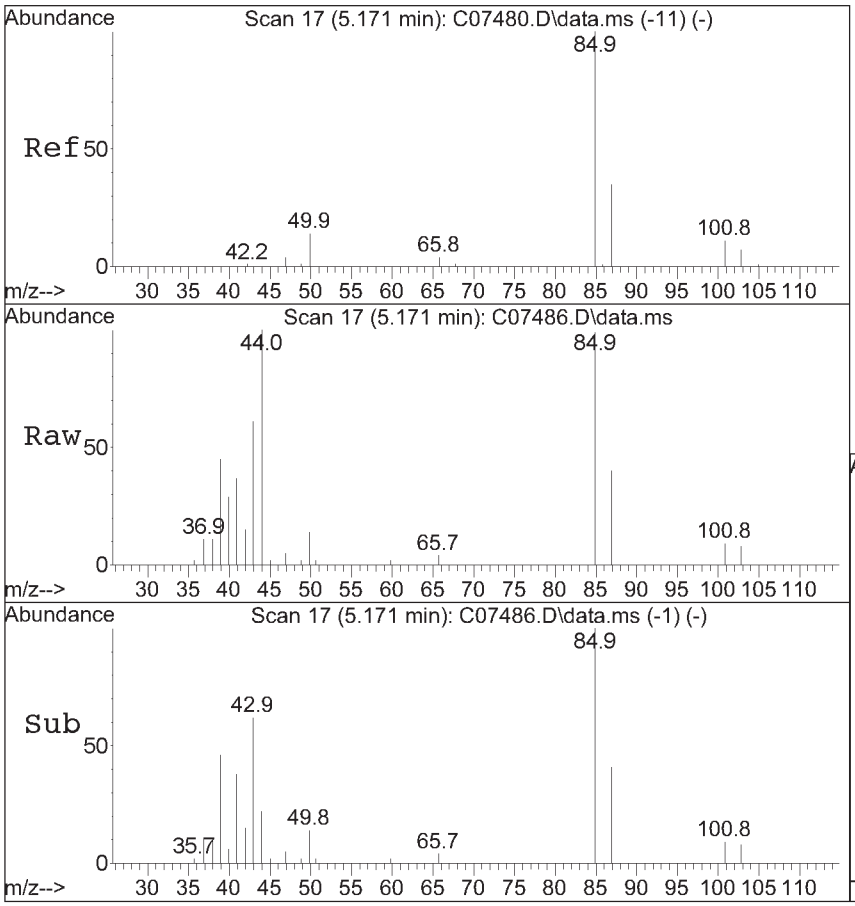
Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07486.D
Acq On : 10 Mar 2011 4:04 pm
Operator : KRL
Sample : sb25245-04 @ b3-ia1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 11 14:56:36 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration



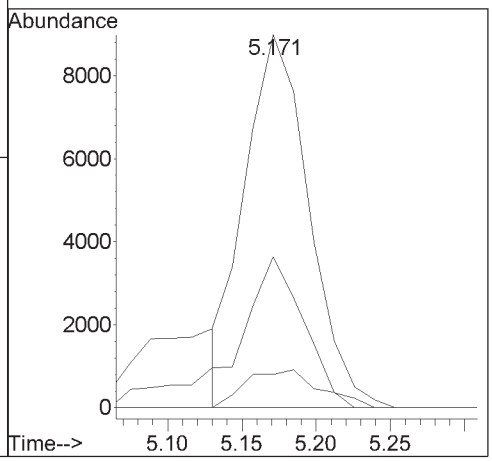


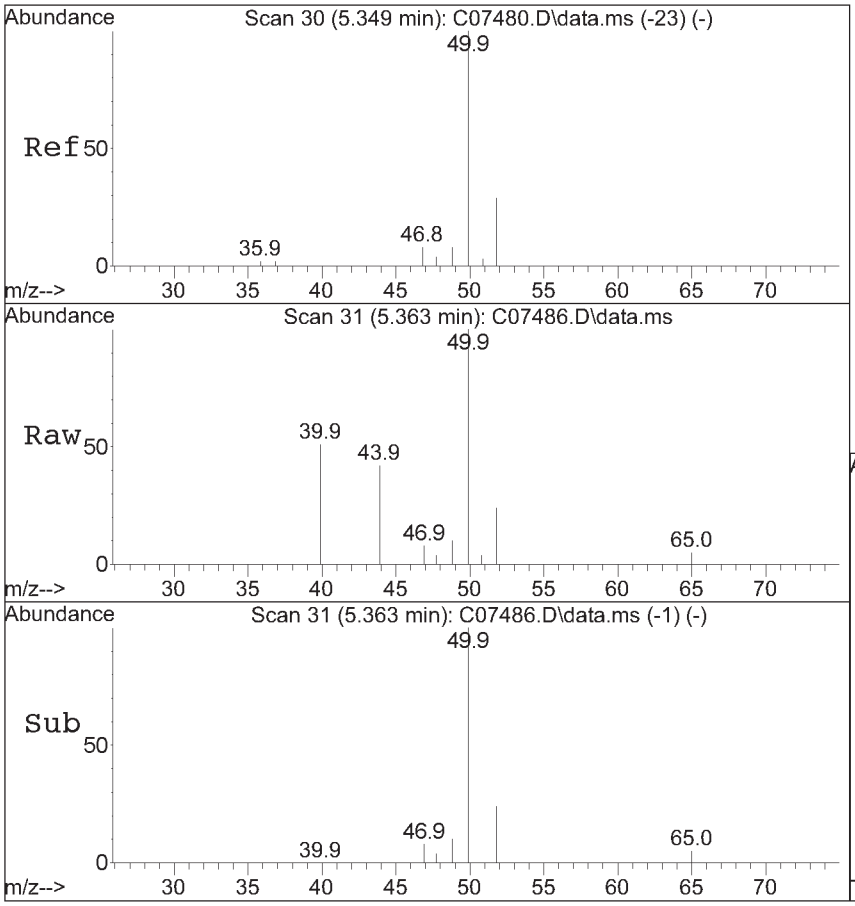


#3
DICHLORODIFLUOROMETHANE
Concen: 0.43 PPBv m
RT: 5.171 min Scan# 17
Delta R.T. -0.003 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 85 Resp: 283635

Ion	Ratio	Lower	Upper
85	100		
87	43.1	0.0	0.0#
101	10.7	0.0	0.0#

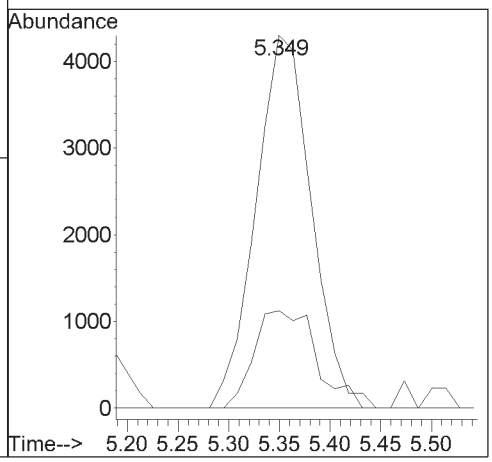


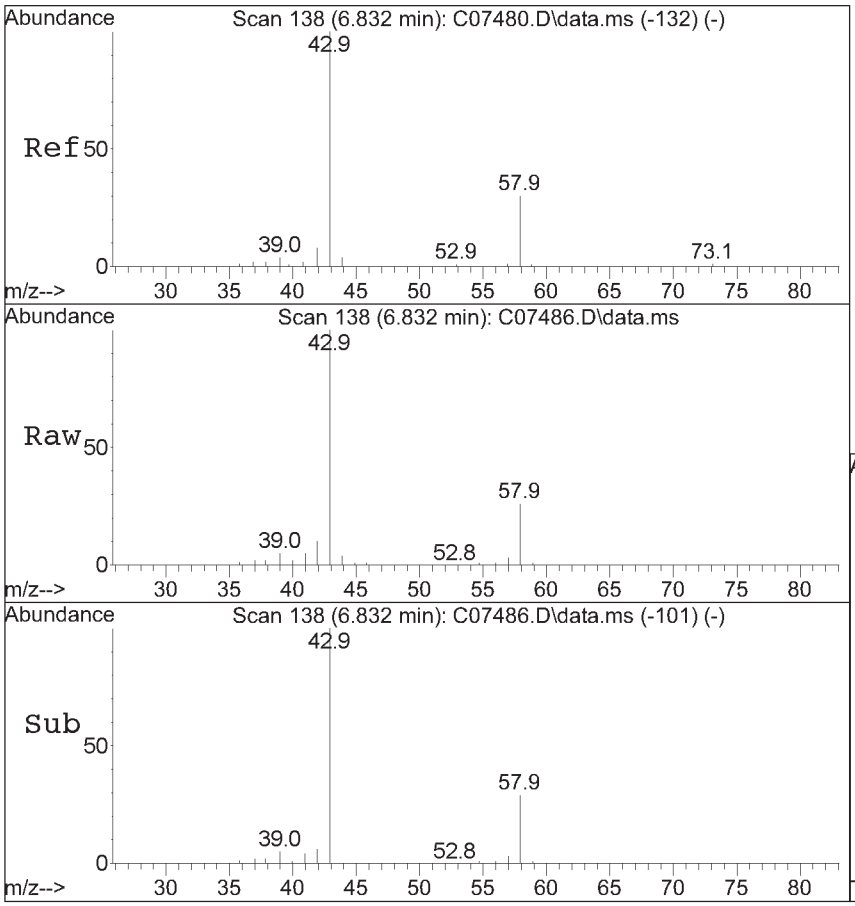


#4
CHLOROMETHANE
Concen: 0.48 PPBv
RT: 5.360 min Scan# 31
Delta R.T. 0.003 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 50 Resp: 164342

Ion	Ratio	Lower	Upper
50	100		
52	29.1	0.0	0.0#

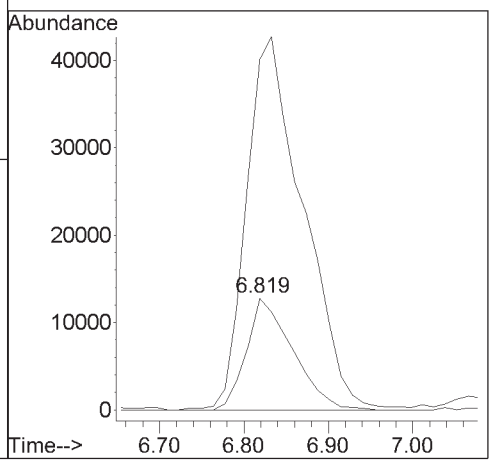


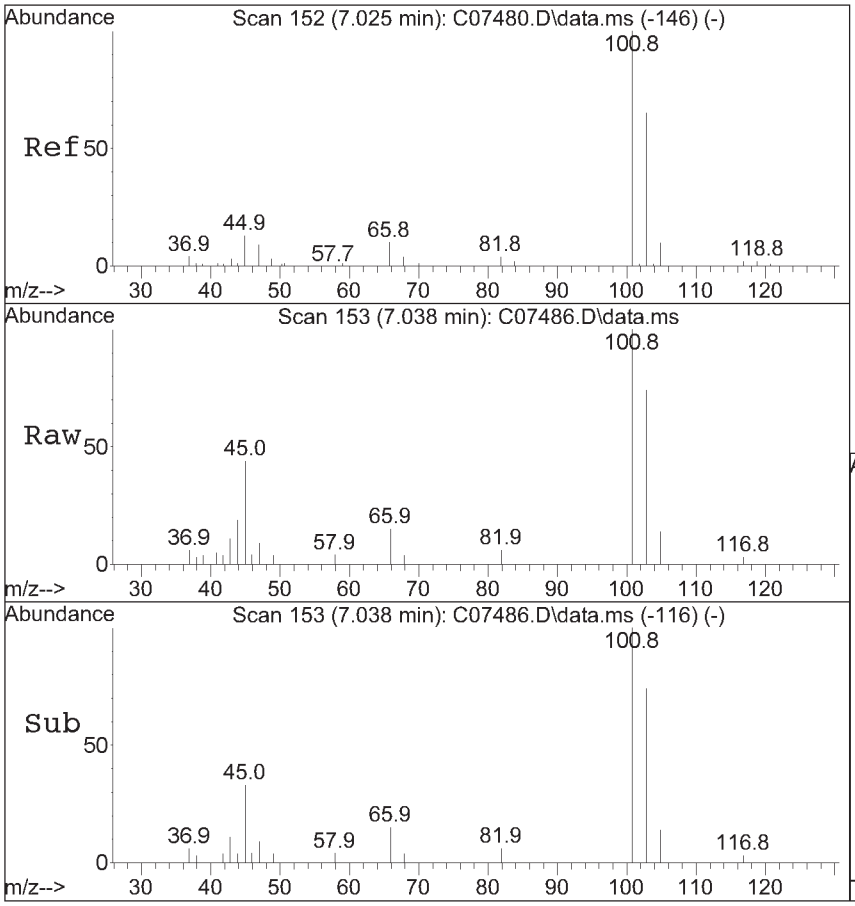


#11
ACETONE
Concen: 3.46 PPBv
RT: 6.828 min Scan# 138
Delta R.T. -0.002 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 58 Resp: 485372

Ion	Ratio	Lower	Upper
58	100		
43	404.3	0.0	0.0#

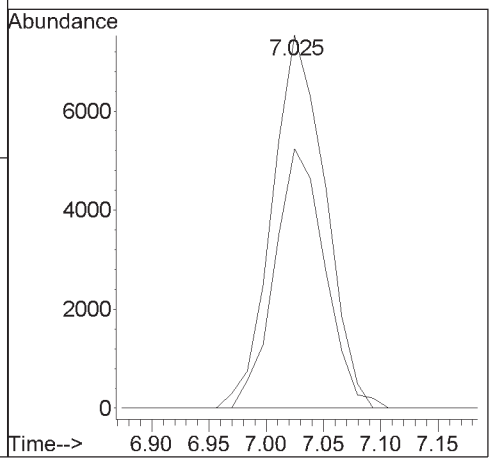


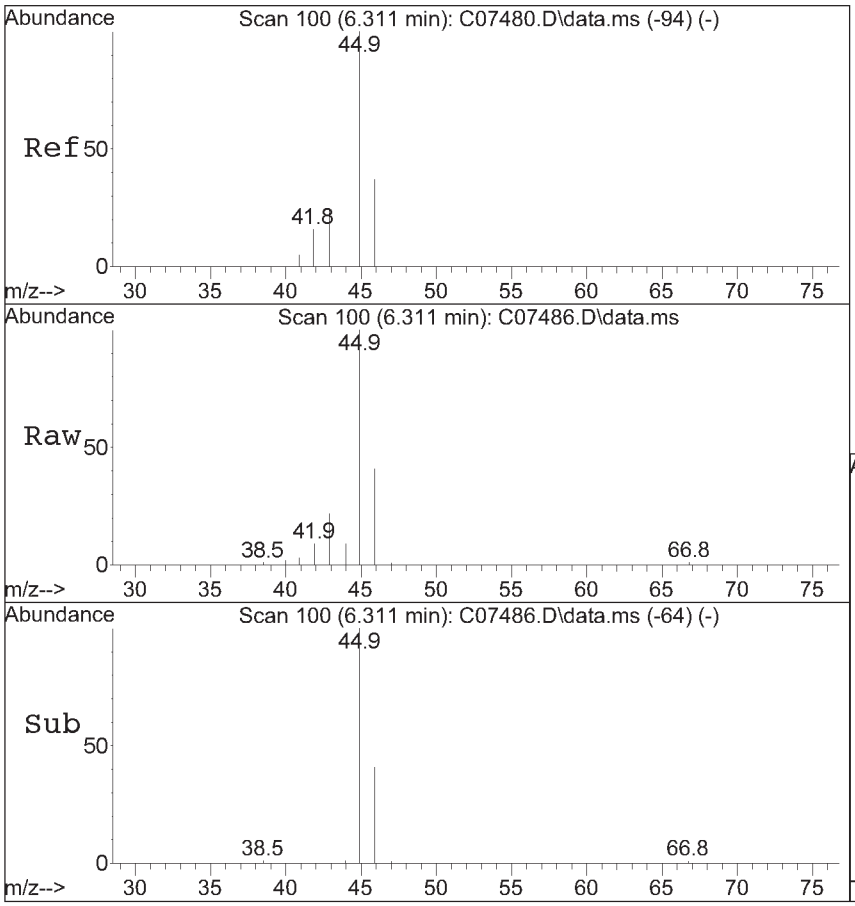


#12
TRICHLOROFLUOROMETHANE
Concen: 0.27 PPBv
RT: 7.032 min Scan# 153
Delta R.T. -0.000 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion:101 Resp: 243585

Ion	Ratio	Lower	Upper
101	100		
103	66.3	0.0	0.0#

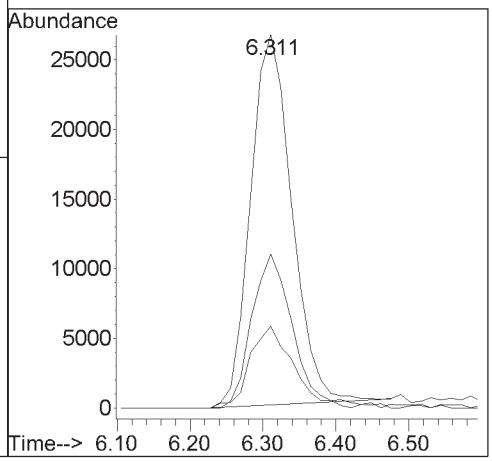


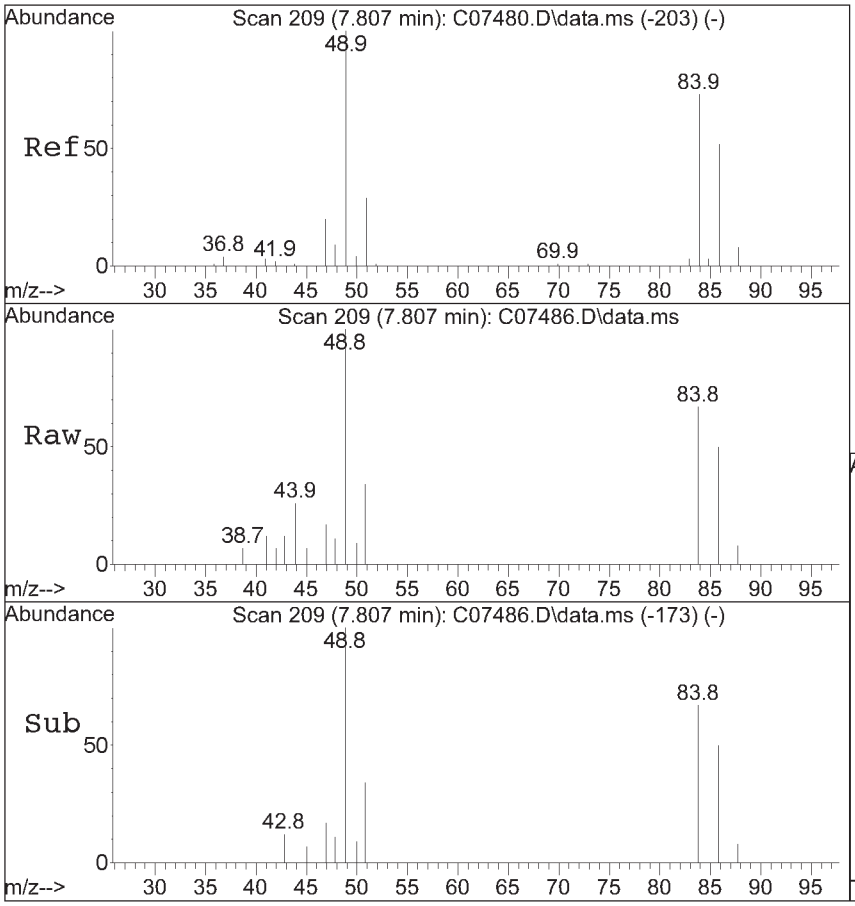


#13
ETHANOL
Concen: 12.69 PPBv
RT: 6.315 min Scan# 100
Delta R.T. -0.002 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 45 Resp: 1041108

Ion	Ratio	Lower	Upper
45	100		
46	42.0	0.0	0.0#
43	0.0	0.0	0.0

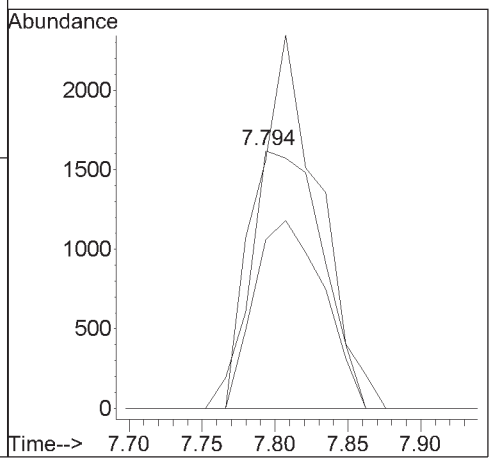


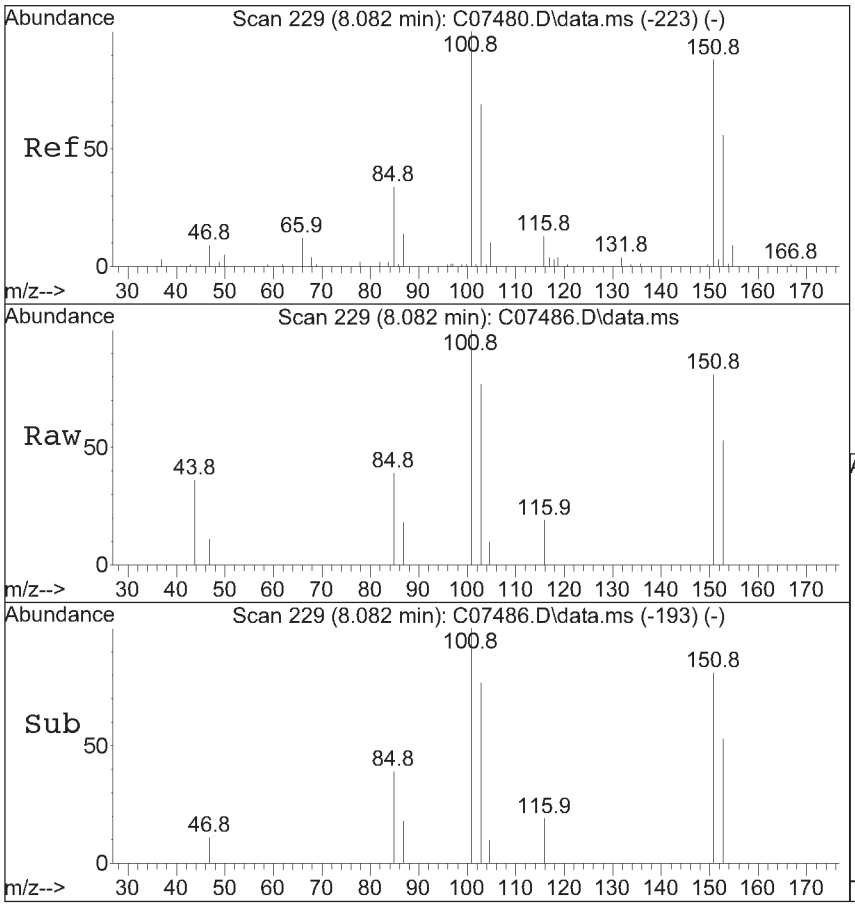


#17
METHYLENE CHLORIDE
Concen: 0.22 PPBv
RT: 7.811 min Scan# 209
Delta R.T. -0.001 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 84 Resp: 55866

Ion	Ratio	Lower	Upper
84	100		
49	124.8	0.0	0.0#
86	70.4	0.0	0.0#

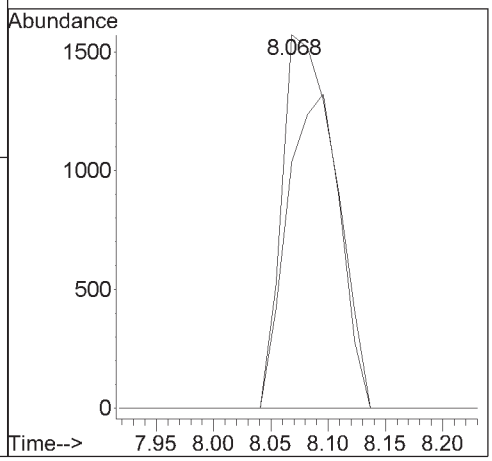


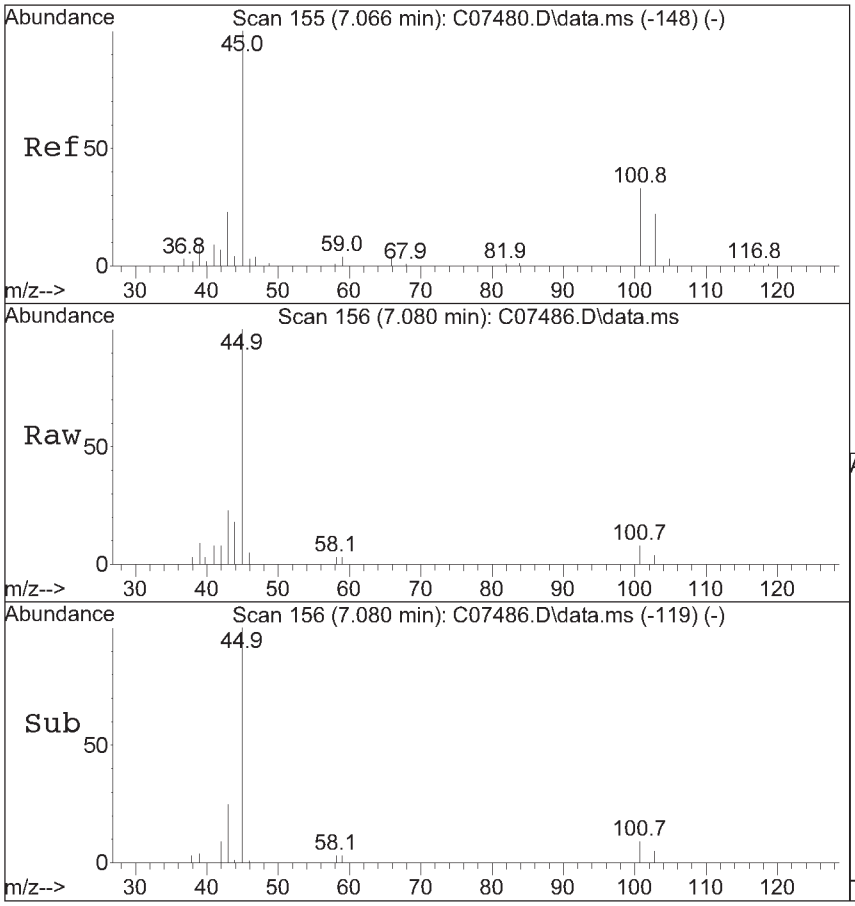


#18
FREON 113
Concen: 0.09 PPBv
RT: 8.084 min Scan# 229
Delta R.T. -0.004 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion:101 Resp: 51303

Ion	Ratio	Lower	Upper
101	100		
151	83.2	0.0	0.0#

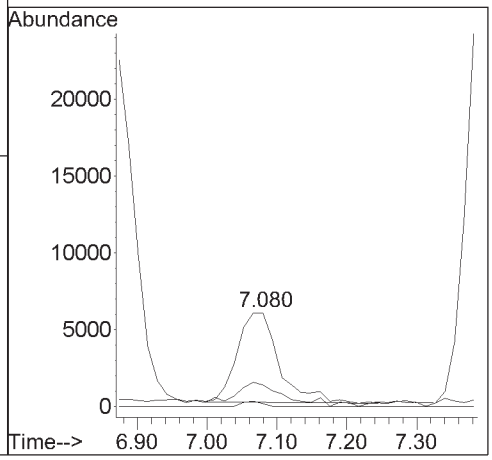


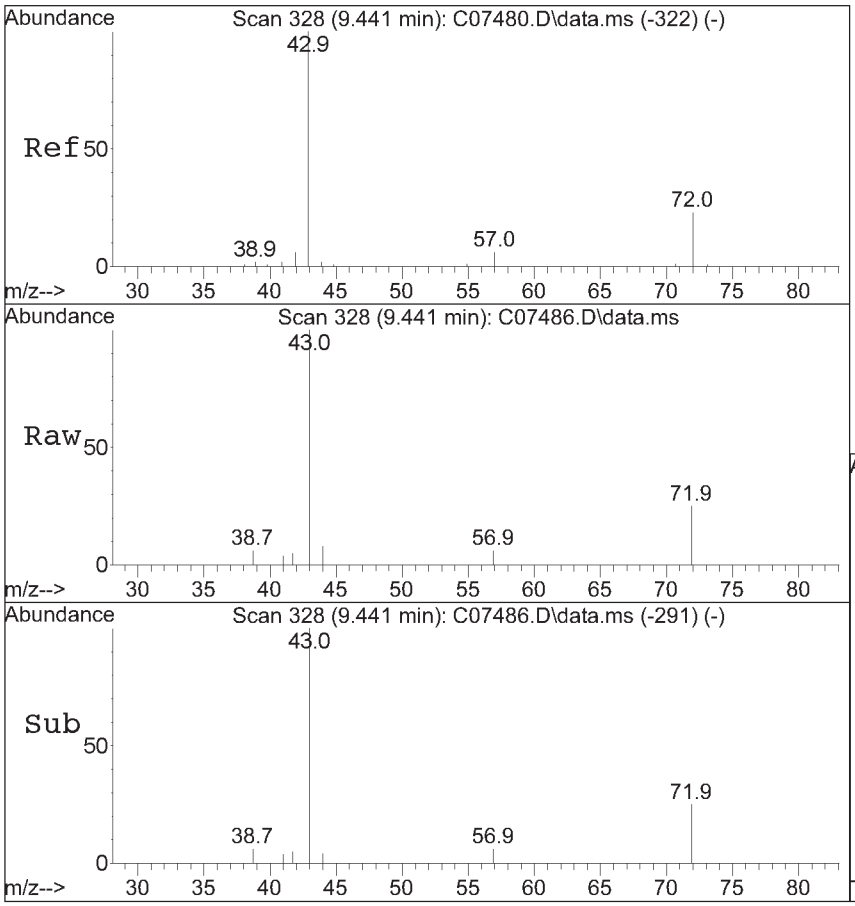


#24
IPA
Concen: 0.56 PPBv
RT: 7.077 min Scan# 156
Delta R.T. 0.011 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 45 Resp: 243146

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	0.0
59	0.0	0.0	0.0

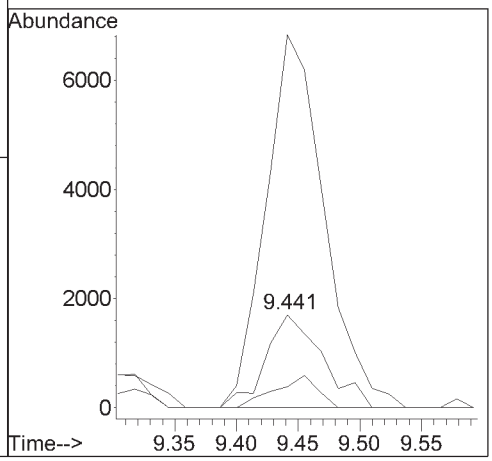


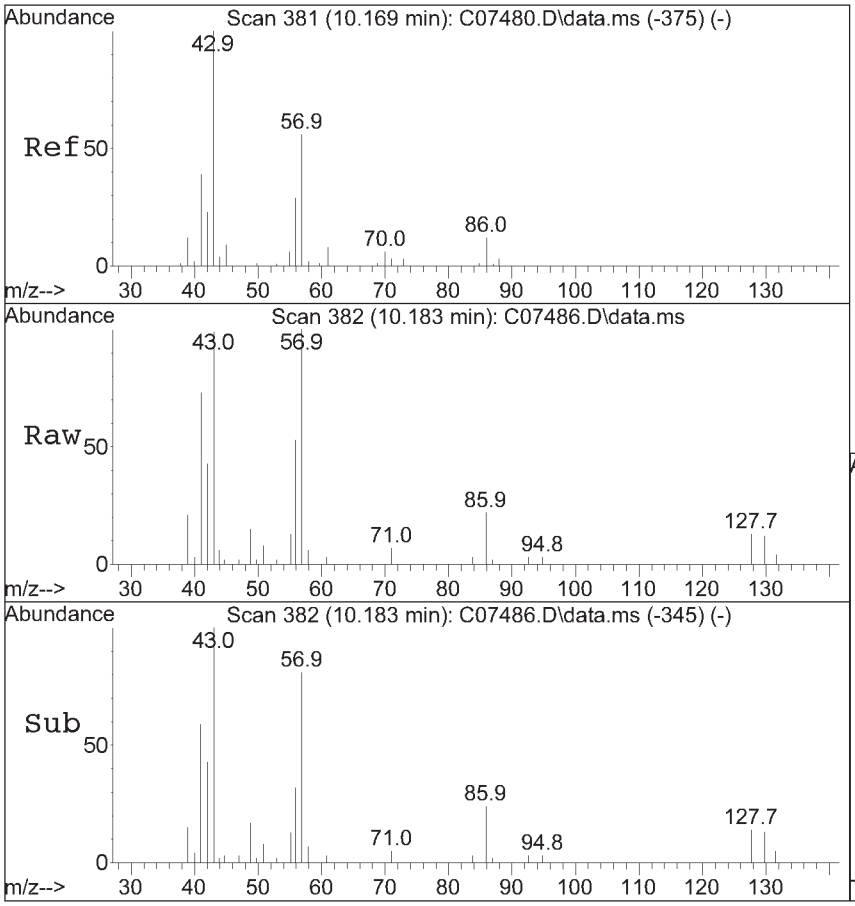


#25
2-BUTANONE (MEK)
Concen: 0.55 PPBv
RT: 9.448 min Scan# 328
Delta R.T. 0.008 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 72 Resp: 54597

Ion	Ratio	Lower	Upper
72	100		
57	0.0	0.0	0.0
43	412.7	0.0	0.0#

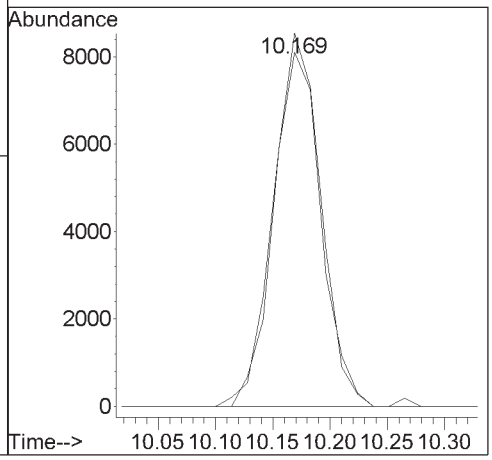


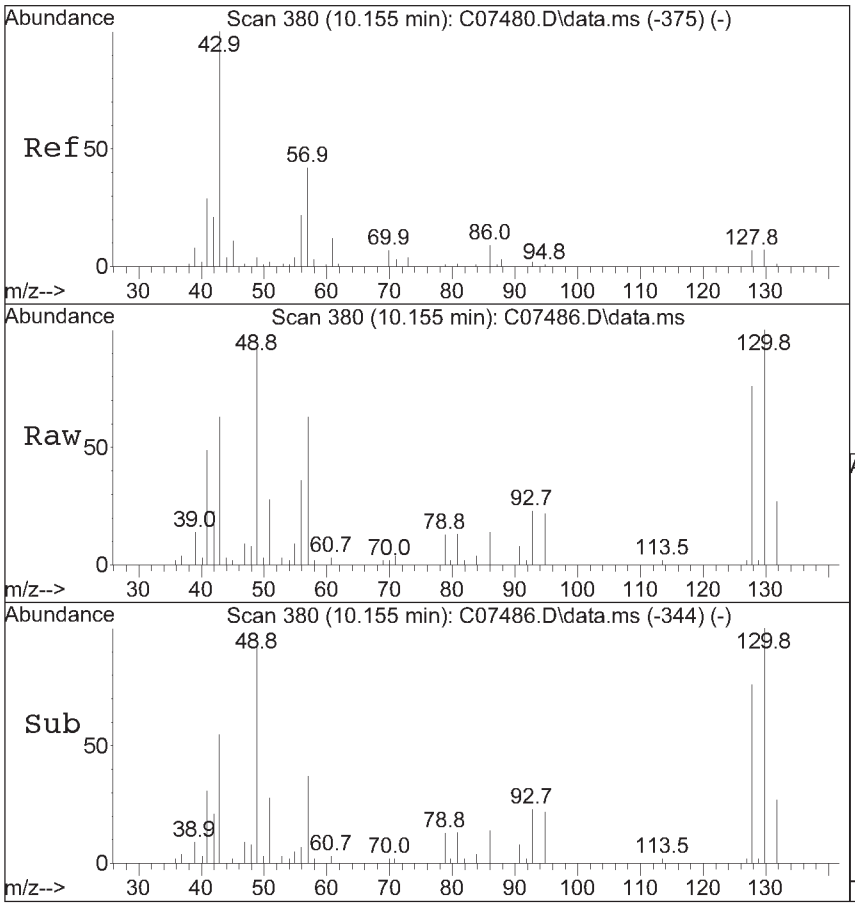


#27
HEXANE
Concen: 0.73 PPBv
RT: 10.177 min Scan# 382
Delta R.T. 0.003 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 57 Resp: 245033

Ion	Ratio	Lower	Upper
57	100		
43	95.4	0.0	0.0#

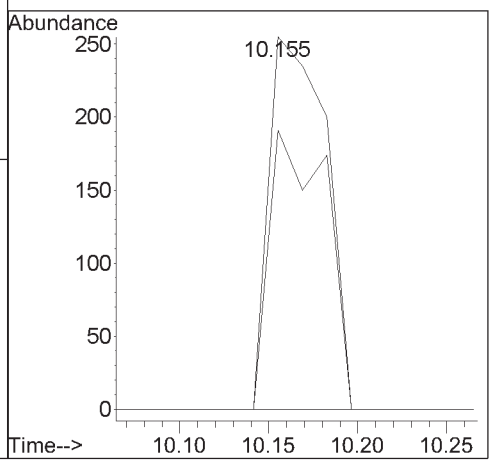


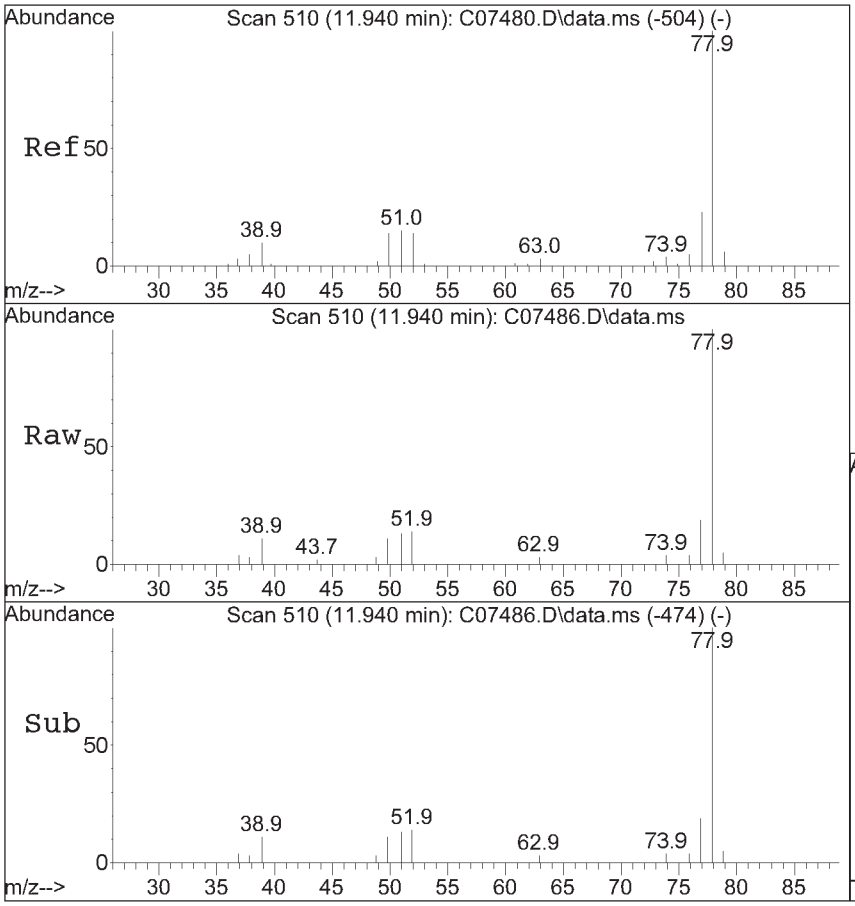


#28
ETHYL ACETATE
Concen: 0.09 PPBv m
RT: 10.155 min Scan# 380
Delta R.T. -0.005 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 61 Resp: 5686

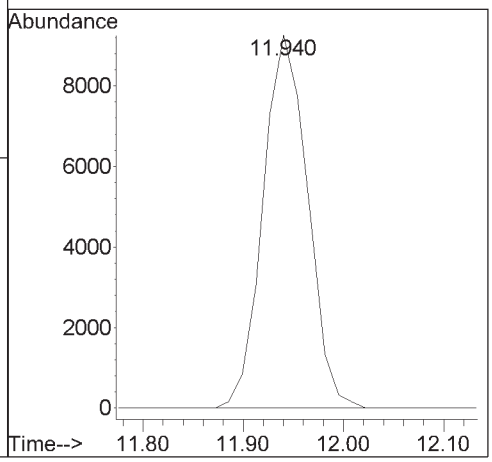
Ion	Ratio	Lower	Upper
61	100		
45	0.0	0.0	0.0

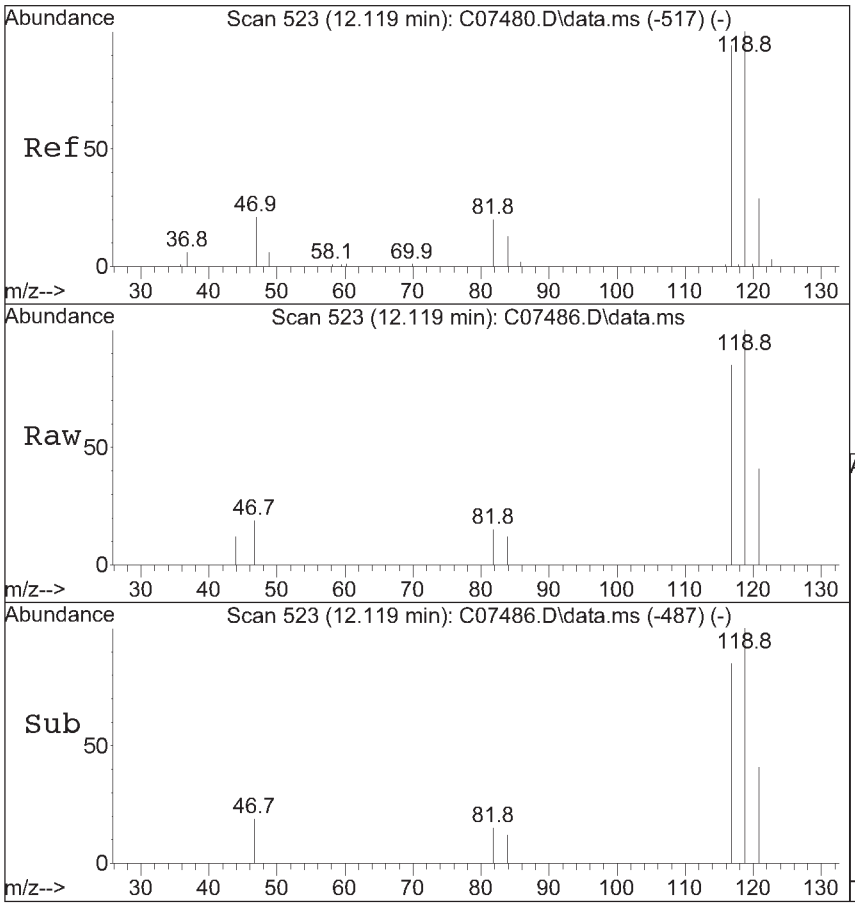




#33
BENZENE
Concen: 0.42 PPBv
RT: 11.946 min Scan# 510
Delta R.T. 0.000 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 78 Resp: 286811

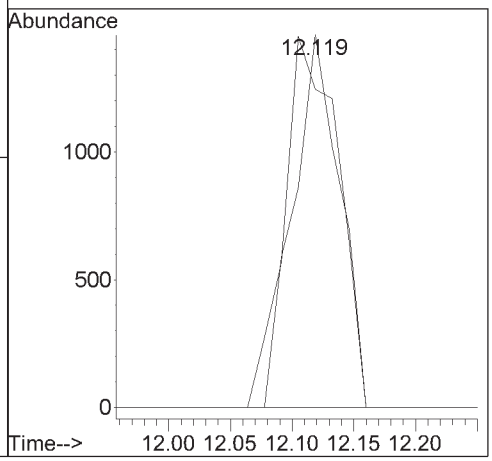


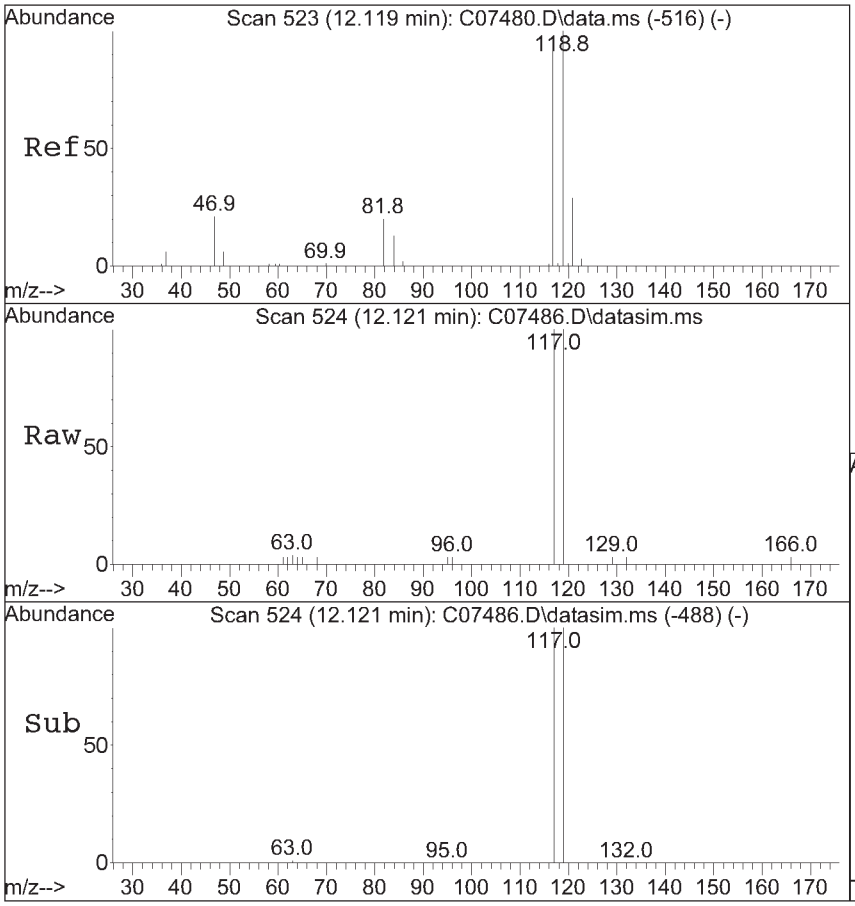


#34
CARBON TETRACHLORIDE
Concen: 0.08 PPBv
RT: 12.125 min Scan# 523
Delta R.T. 0.003 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion:119 Resp: 38091

Ion	Ratio	Lower	Upper
119	100		
117	116.6	0.0	0.0#

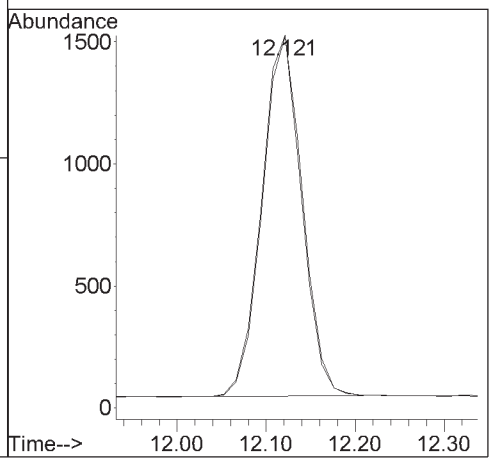


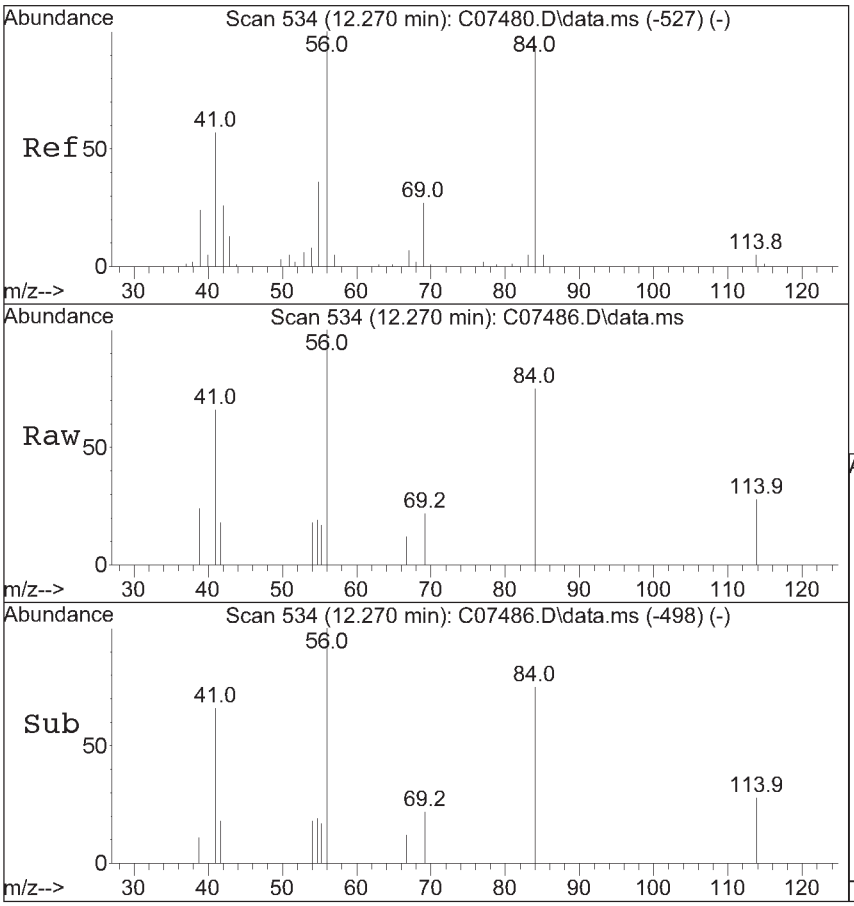


#35
CARBON TETRACHLORIDE (SIM)
Concen: 0.07 PPBv
RT: 12.123 min Scan# 524
Delta R.T. 0.001 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion:119 Resp: 45775

Ion	Ratio	Lower	Upper
119	100		
117	100.2	0.0	0.0#

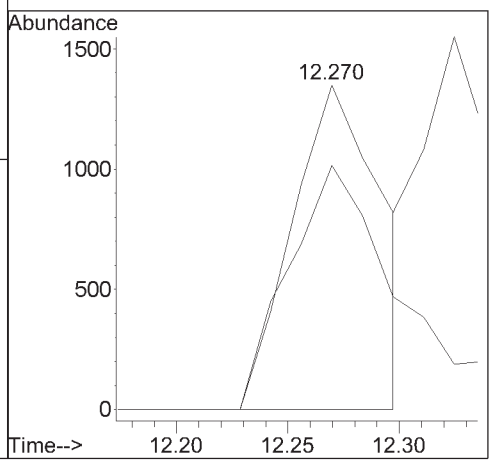


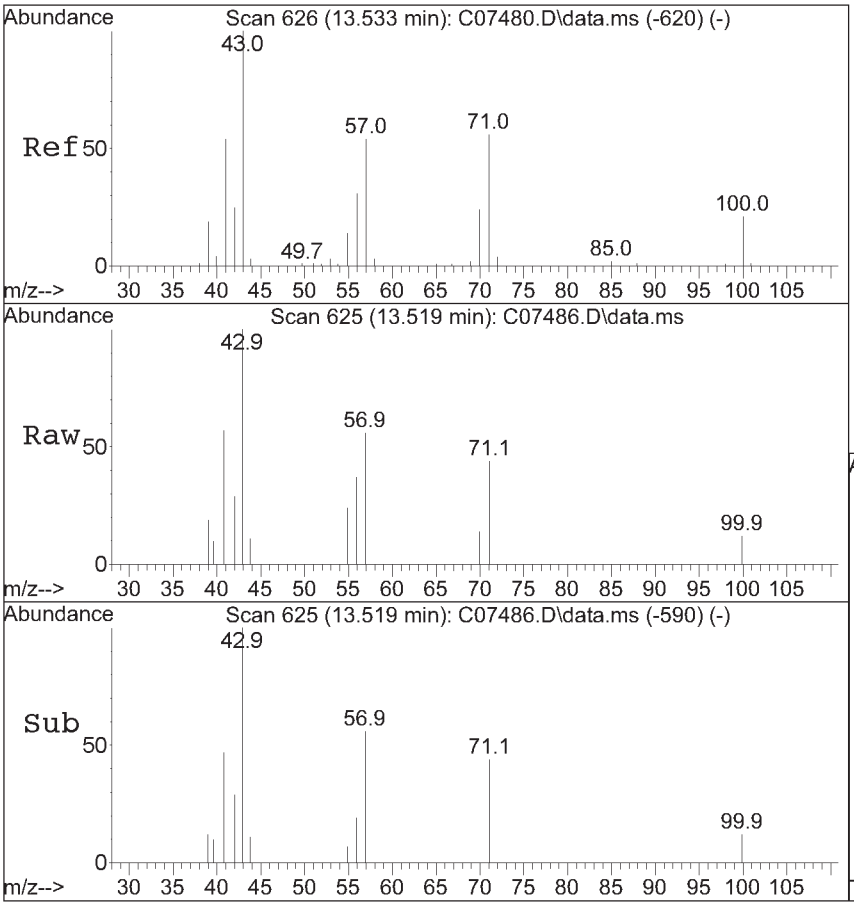


#36
CYCLOHEXANE
Concen: 0.08 PPBv m
RT: 12.270 min Scan# 534
Delta R.T. -0.000 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 56 Resp: 28538

Ion	Ratio	Lower	Upper
56	100		
84	0.0	0.0	0.0

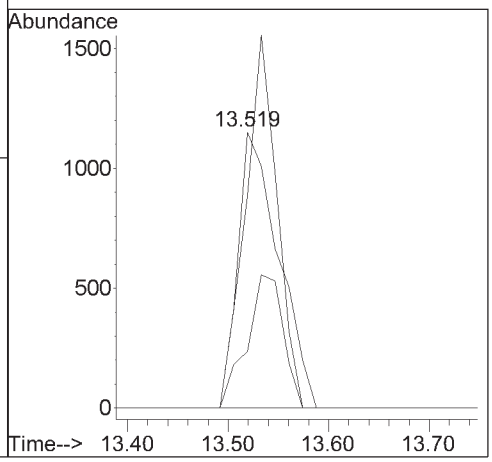


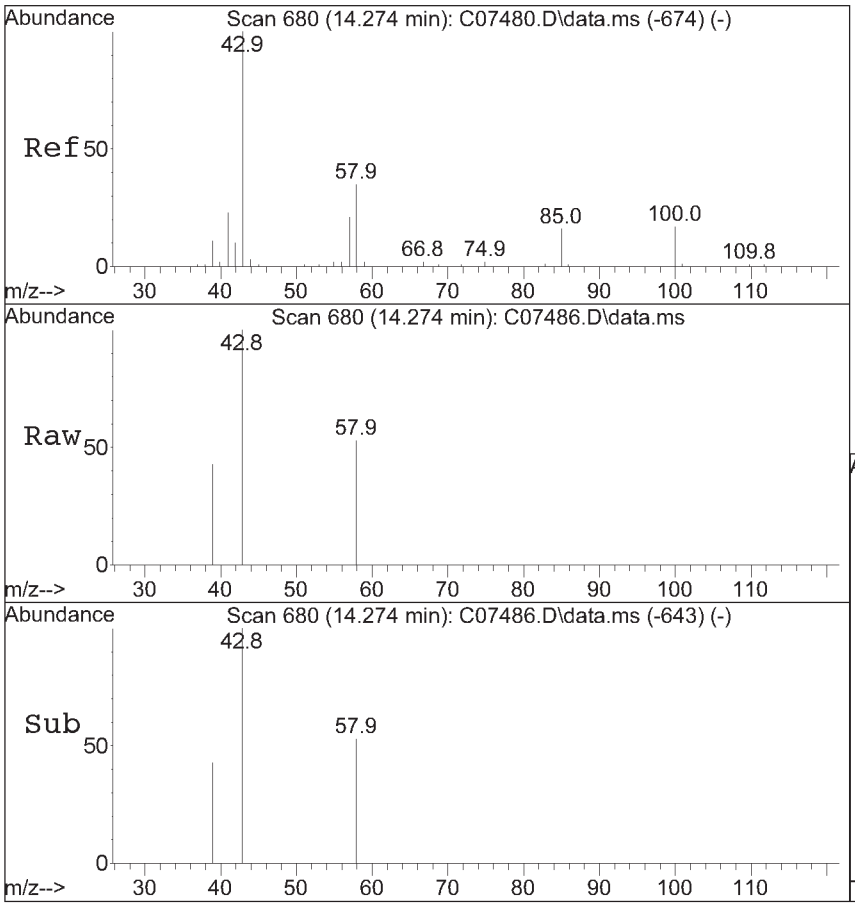


#43
HEPTANE
Concen: 0.15 PPBv m
RT: 13.519 min Scan# 625
Delta R.T. -0.016 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 57 Resp: 32470

Ion	Ratio	Lower	Upper
57	100		
71	0.0	0.0	0.0
100	0.0	0.0	0.0

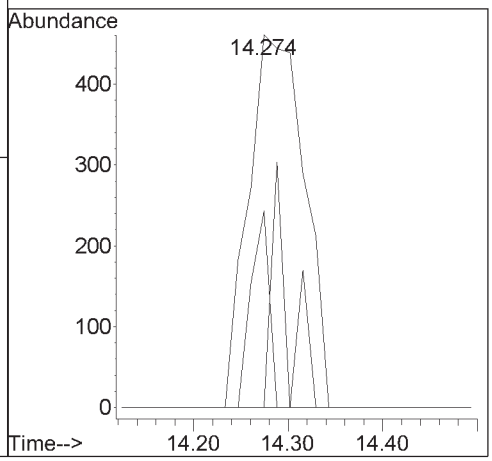


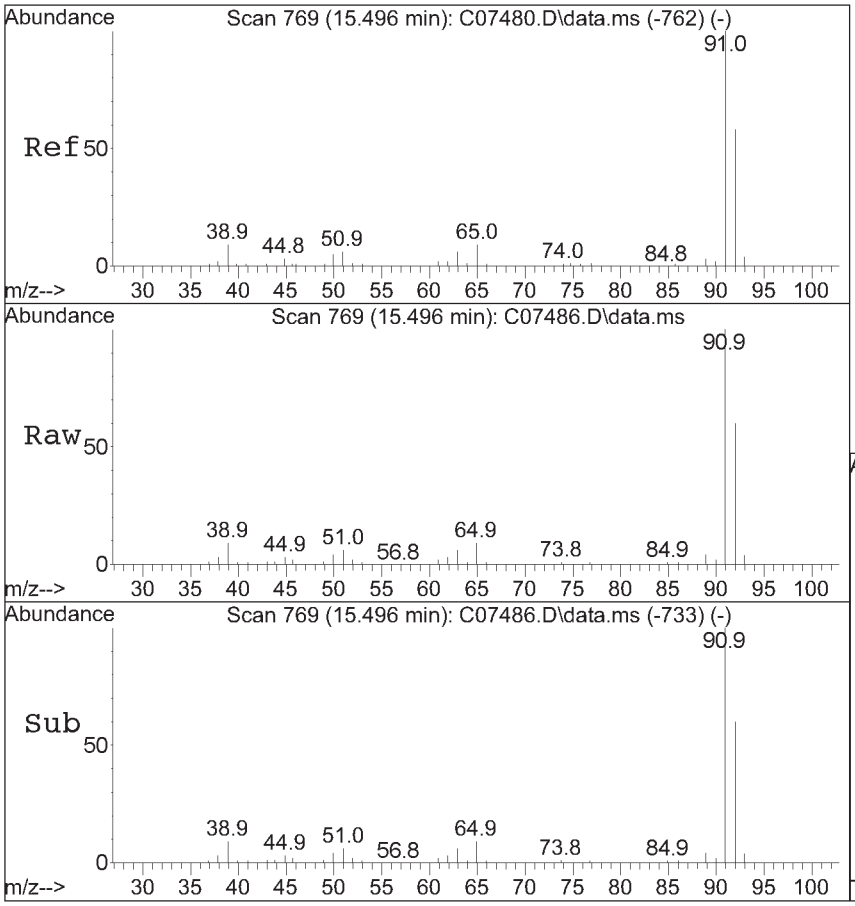


#44
MIBK
Concen: 0.04 PPBv m
RT: 14.274 min Scan# 680
Delta R.T. 0.001 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 43 Resp: 18949

Ion	Ratio	Lower	Upper
43	100		
58	0.0	0.0	0.0
57	0.0	0.0	0.0
100	0.0	0.0	0.0

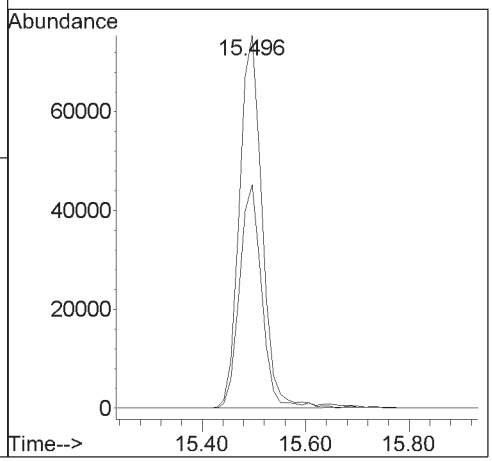


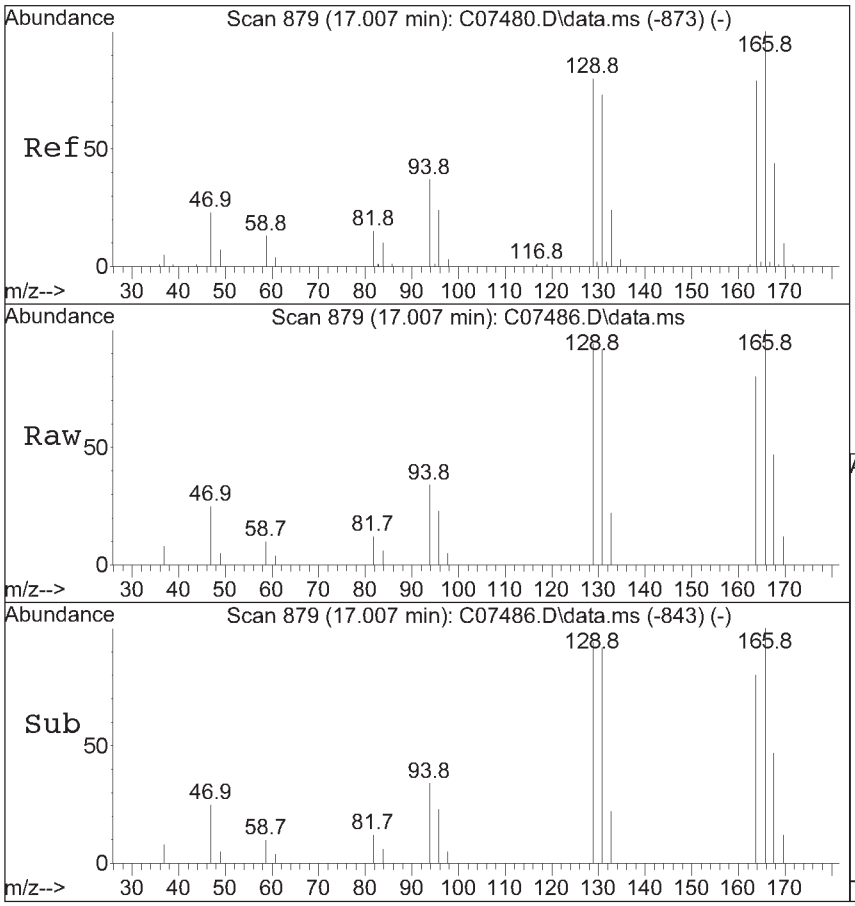


#48
TOLUENE
Concen: 2.76 PPBv
RT: 15.498 min Scan# 769
Delta R.T. 0.002 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 91 Resp: 2307084

Ion	Ratio	Lower	Upper
91	100		
92	58.8	0.0	0.0#

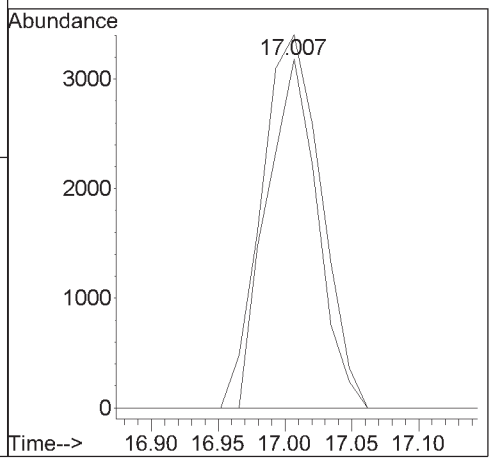


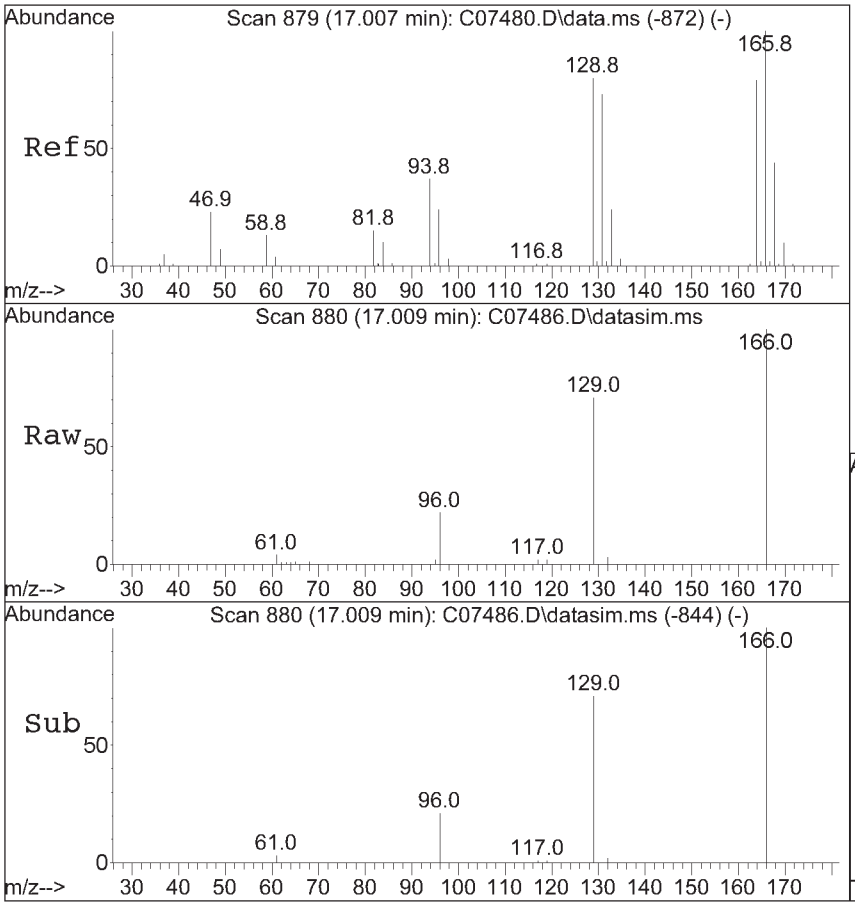


#52
TETRACHLOROETHENE
Concen: 0.24 PPBv
RT: 17.009 min Scan# 879
Delta R.T. 0.001 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion:166 Resp: 105954

Ion	Ratio	Lower	Upper
166	100		
129	79.3	0.0	0.0#
138	0.0	0.0	0.0

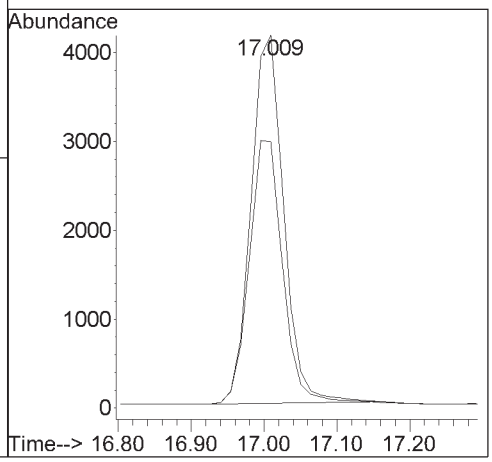


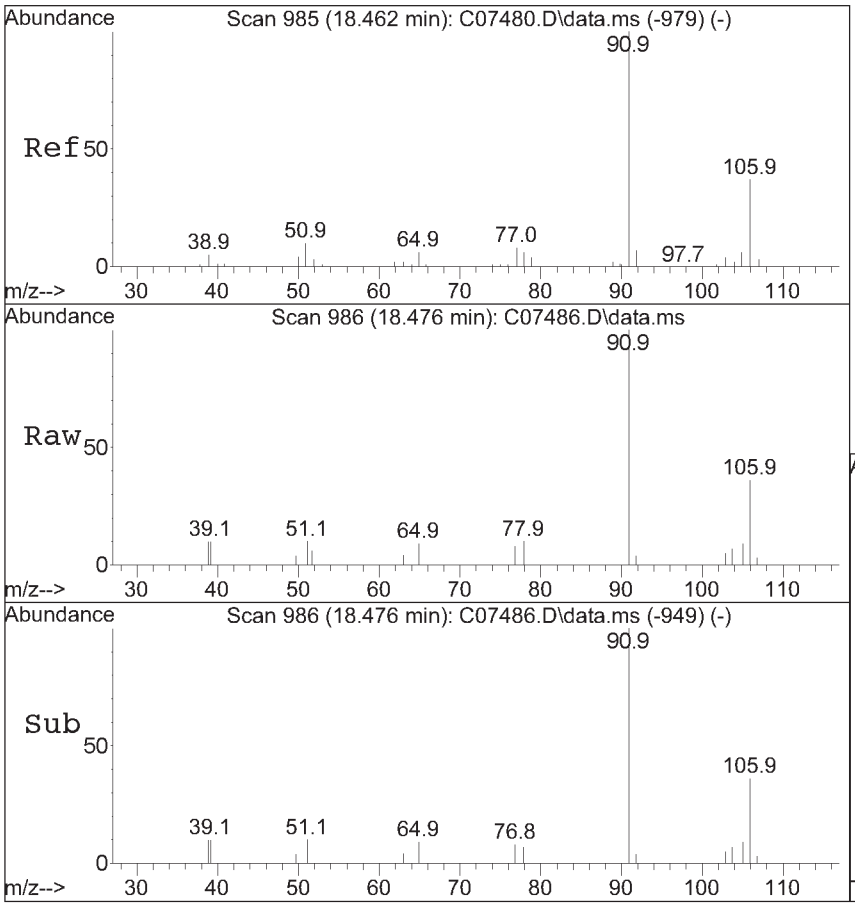


#53
TETRACHLOROETHENE (SIM)
Concen: 0.26 PPBv
RT: 17.009 min Scan# 880
Delta R.T. 0.000 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion:166 Resp: 128801

Ion	Ratio	Lower	Upper
166	100		
129	72.4	0.0	0.0#

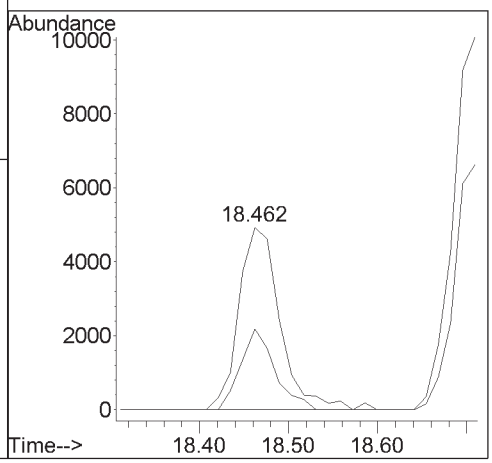


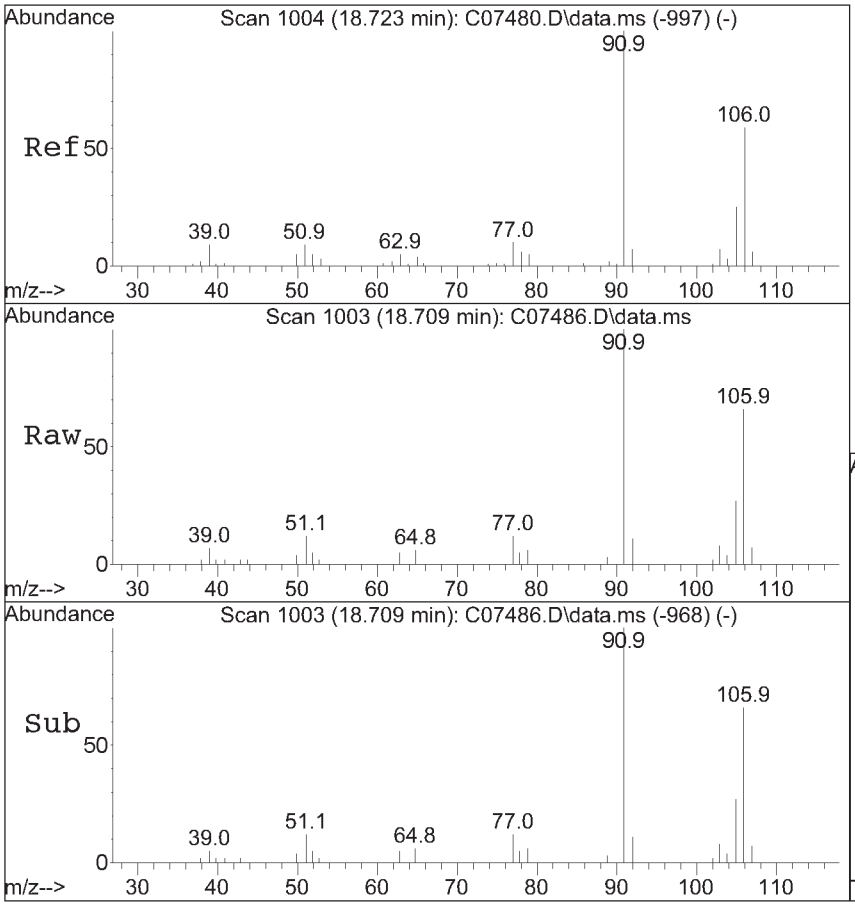


#57
ETHYLBENZENE
Concen: 0.16 PPBv
RT: 18.471 min Scan# 986
Delta R.T. 0.002 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion: 91 Resp: 159406

Ion	Ratio	Lower	Upper
91	100		
106	36.7	0.0	0.0#

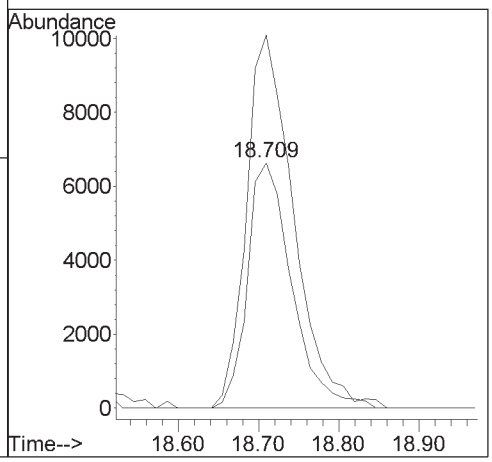


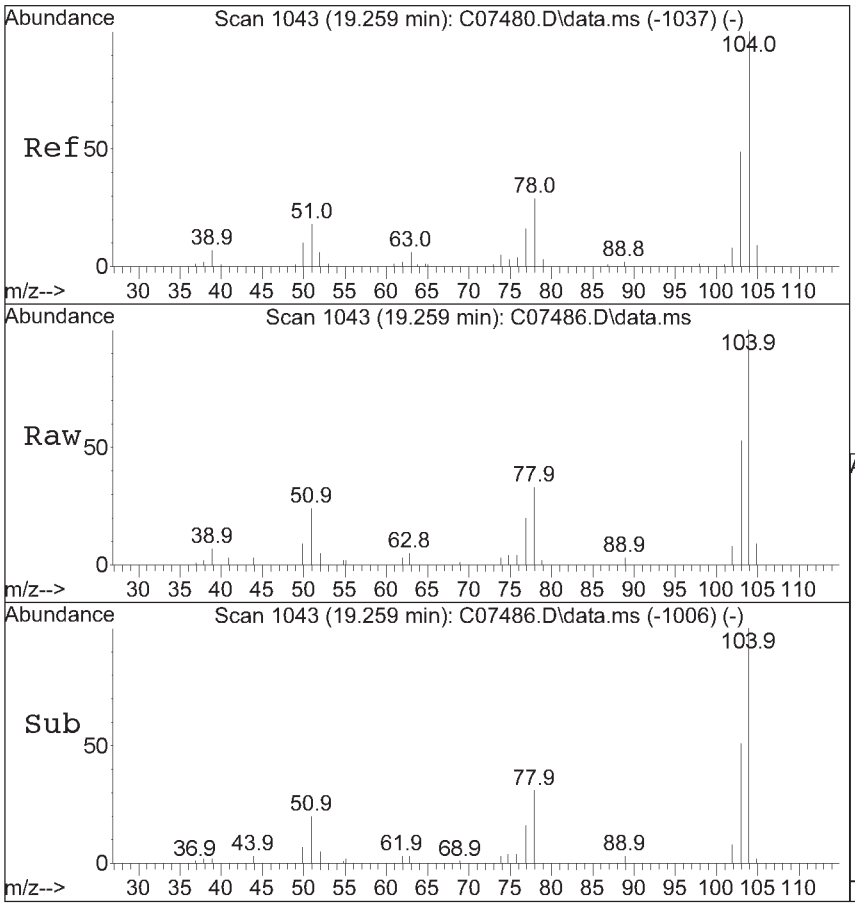


#58
M/P-XYLENE
Concen: 0.51 PPBv
RT: 18.714 min Scan# 1003
Delta R.T. -0.012 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion:106 Resp: 255381

Ion	Ratio	Lower	Upper
106	100		
91	161.9	0.0	0.0#

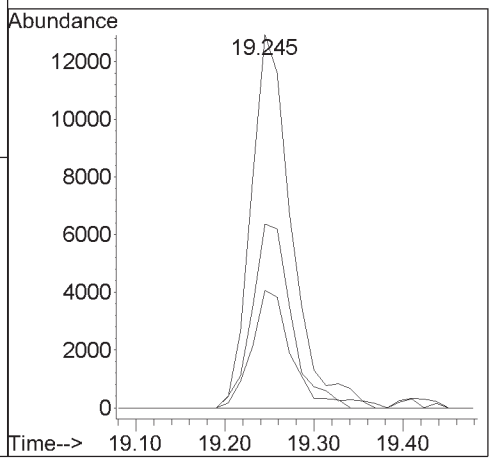


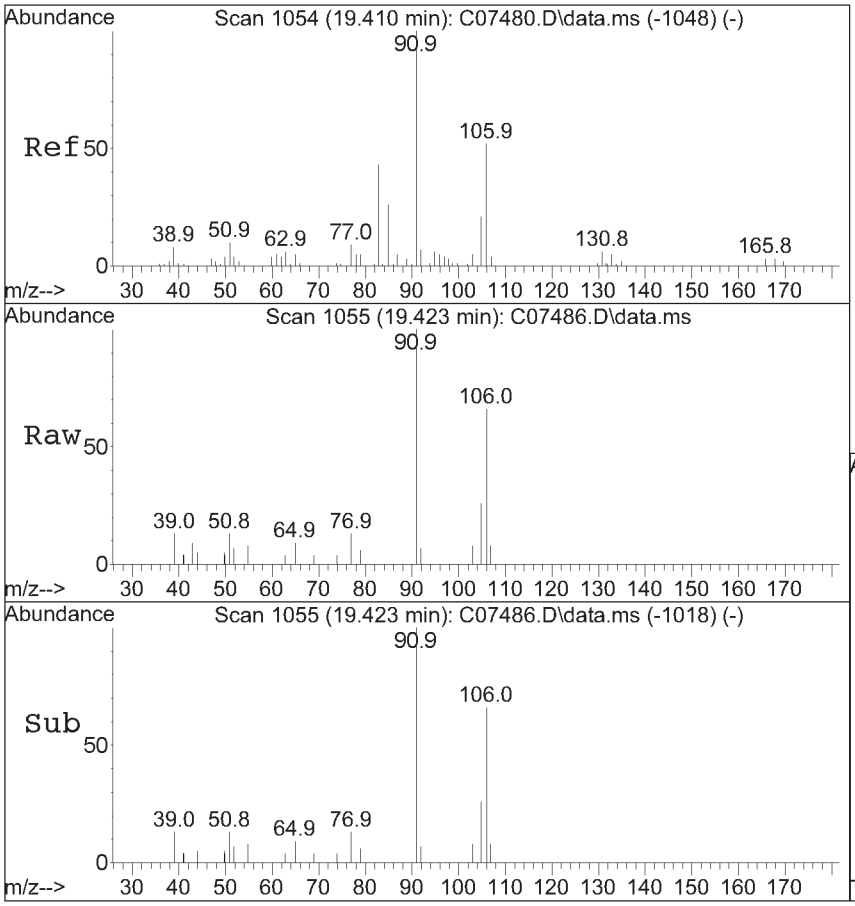


#60
STYRENE
Concen: 0.71 PPBv
RT: 19.255 min Scan# 1043
Delta R.T. -0.001 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion:104 Resp: 408850

Ion	Ratio	Lower	Upper
104	100		
103	48.7	0.0	0.0#
78	30.4	0.0	0.0#

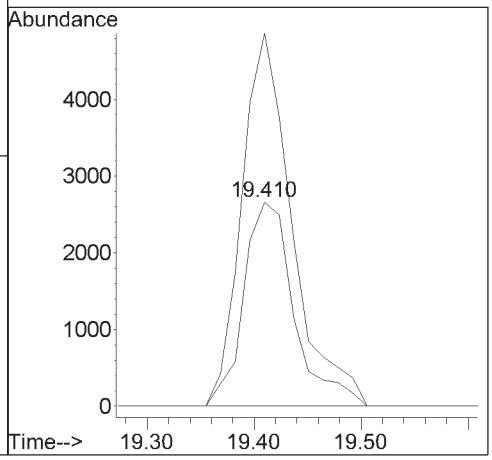


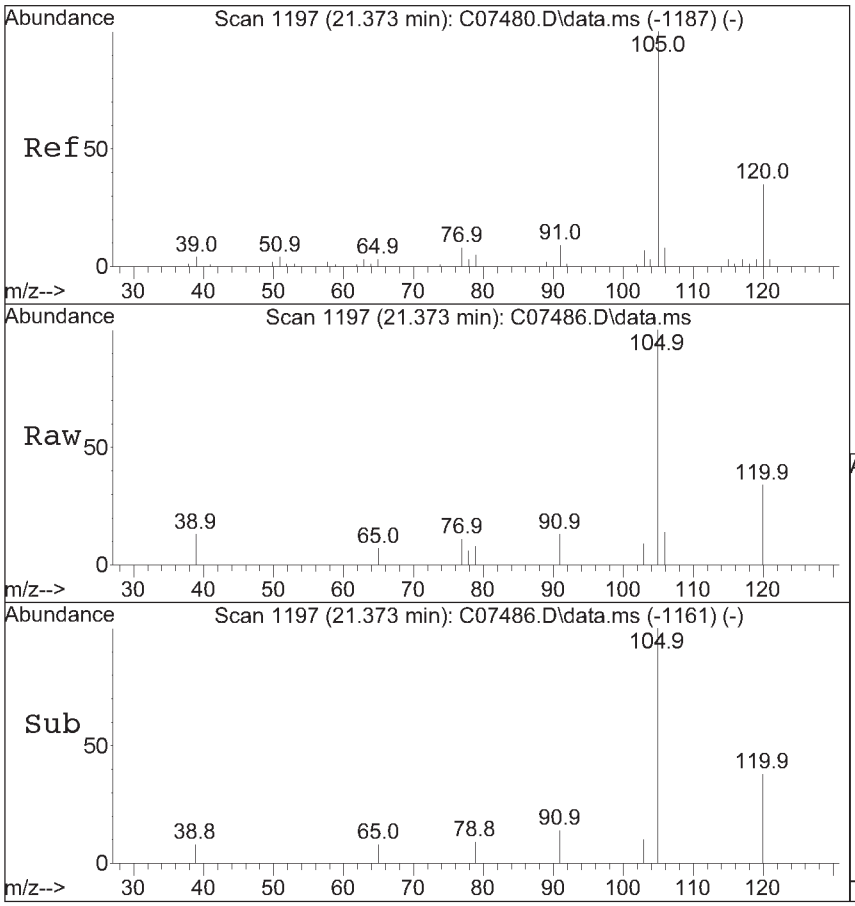


#61
O-XYLENE
Concen: 0.19 PPBv
RT: 19.418 min Scan# 1055
Delta R.T. 0.001 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion:106 Resp: 87397

Ion	Ratio	Lower	Upper
106	100		
91	181.7	0.0	0.0#

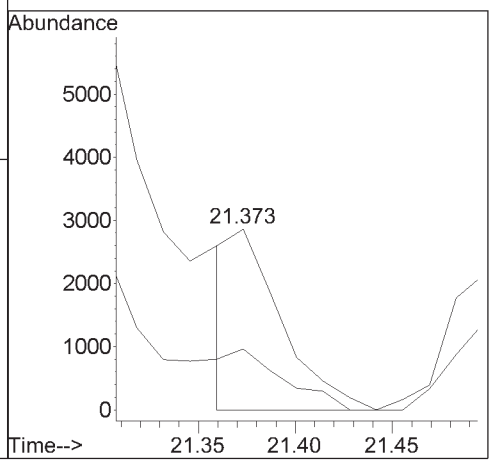


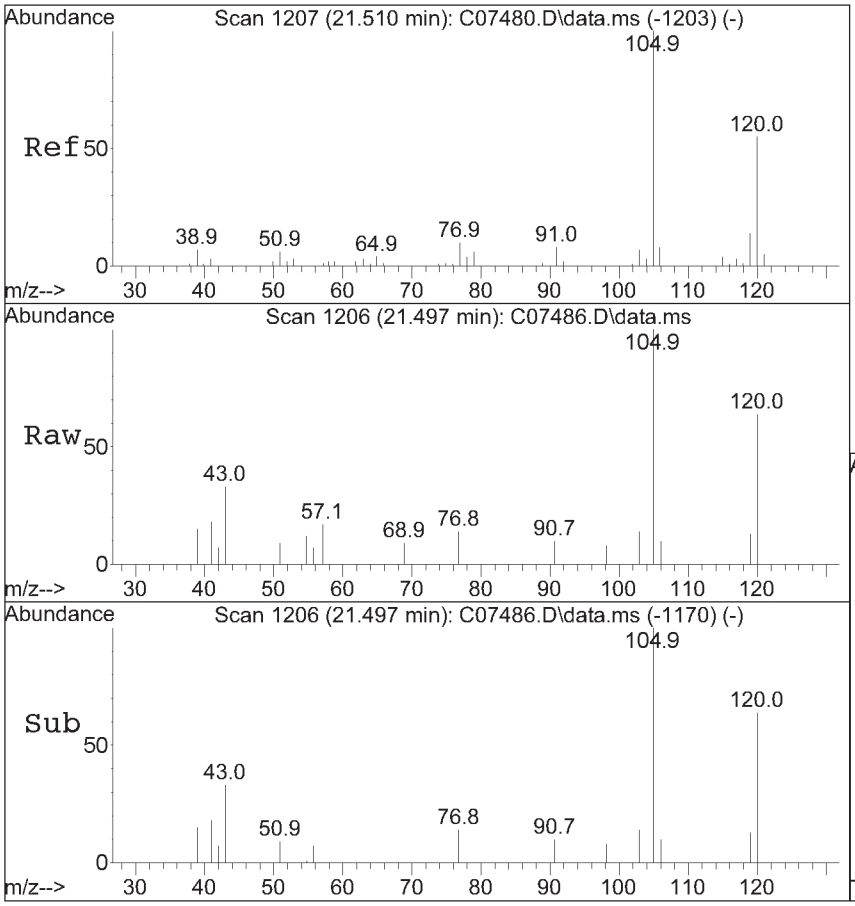


#65
4-ETHYLTOLUENE
Concen: 0.07 PPBv
RT: 21.373 min Scan# 1197
Delta R.T. -0.004 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion:105 Resp: 78020

Ion	Ratio	Lower	Upper
105	100		
120	0.0	0.0	0.0

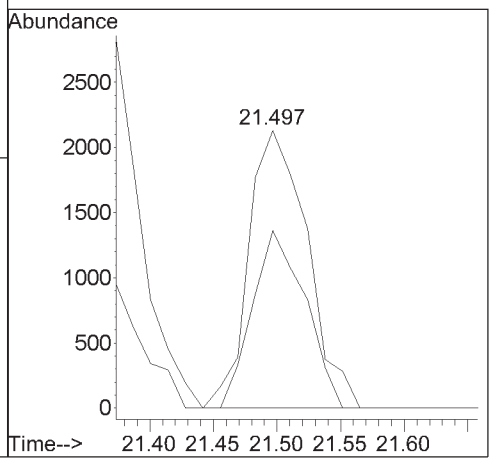


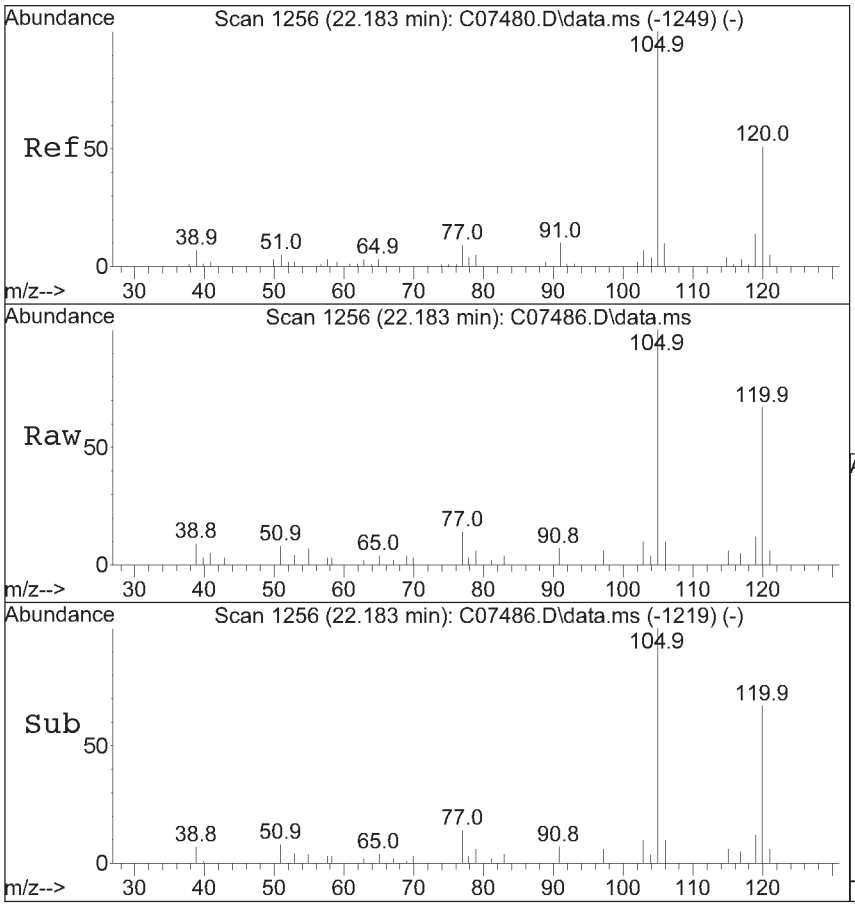


#66
1,3,5-TRIMETHYLBENZENE
Concen: 0.07 PPBv m
RT: 21.497 min Scan# 1206
Delta R.T. -0.010 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion:105 Resp: 67802

Ion	Ratio	Lower	Upper
105	100		
120	0.0	0.0	0.0

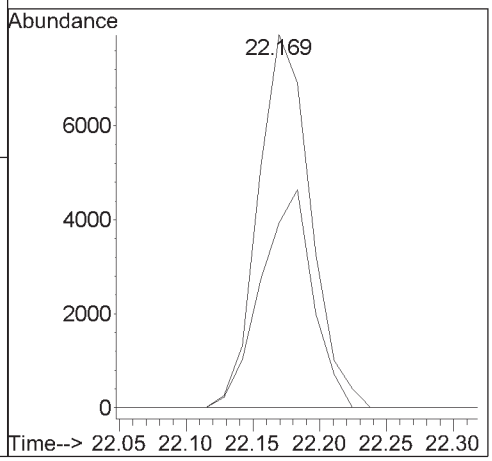




#67
1,2,4-TRIMETHYLBENZENE
Concen: 0.24 PPBv
RT: 22.178 min Scan# 1256
Delta R.T. -0.001 min
Lab File: C07486.D
Acq: 10 Mar 2011 4:04 pm

Tgt Ion:105 Resp: 216122

Ion	Ratio	Lower	Upper
105	100		
120	58.2	0.0	0.0#



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B3-IA1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-04	File ID:	B36764.D
Sampled:	03/03/11 09:45			Analyzed:	03/11/11 21:52
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104256	Sequence:	S101779	Calibration:	1102028
Instrument:	Air2				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
64-17-5	Ethanol	12.2	23.00	

Quantitation Report (QT Reviewed)

Data File : G:\MAR2011\AIR2\031111\B36764.D Vial: 10
Acq On : 11 Mar 2011 9:52 pm Operator: KG
Sample : sb25245-04 @ b3-ia1 1x to-15 Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 14 10:42 2011 Quant Results File: T2021511H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

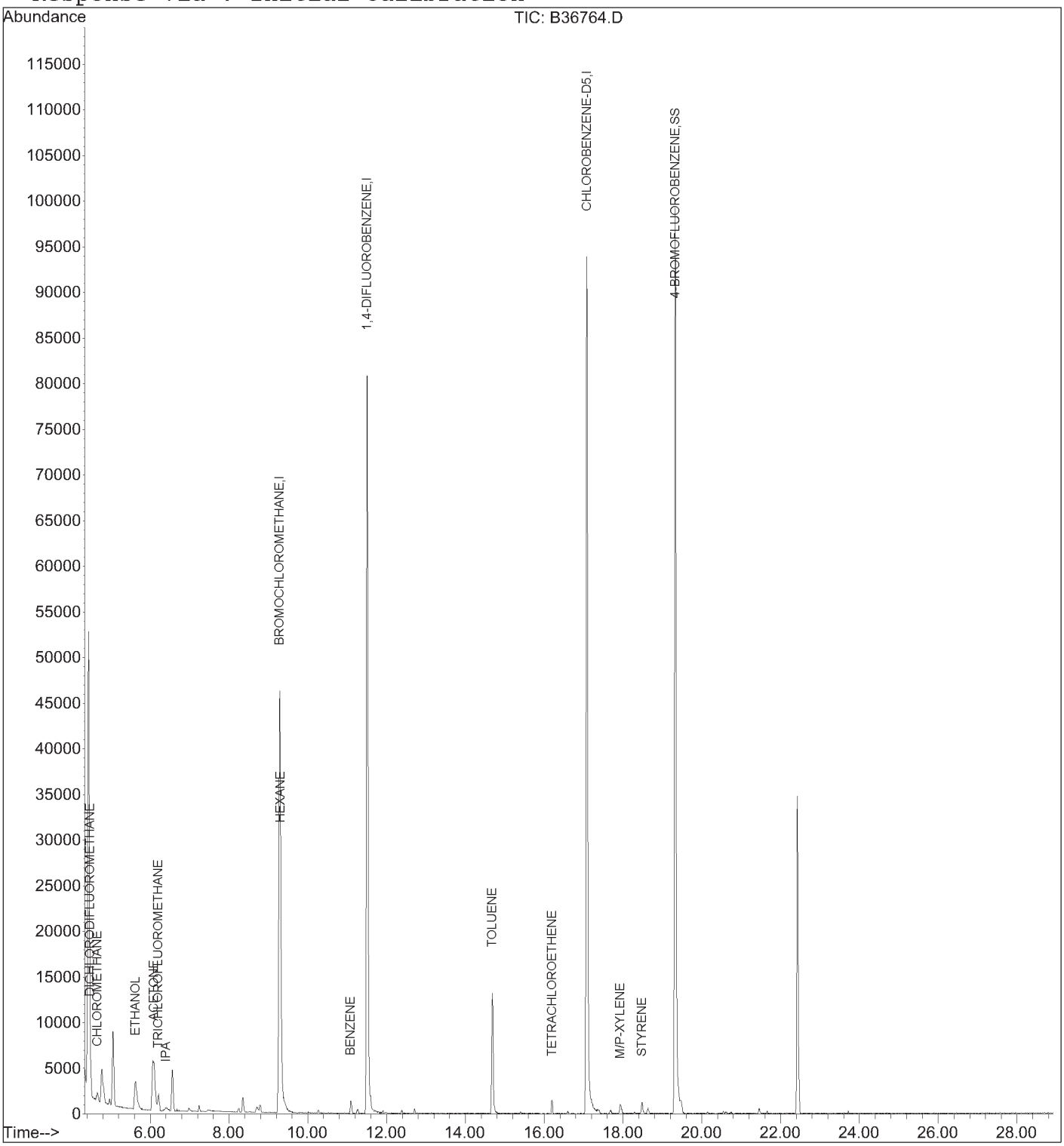
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.29	128	209332	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	11.51	114	976546	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.08	82	466007	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.33	95	550821	10.91	PPBv		0.00
Spiked Amount 10.000	Range 9 - 15		Recovery = 109.10%#				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.49	85	47566	0.71	PPBv		100
4) CHLOROMETHANE	4.66	50	17729	0.59	PPBv	#	100
10) ACETONE	6.11	58	27310	3.52	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.21	101	24164m	0.35	PPBv		
12) ETHANOL	5.63	45	71423	12.17	PPBv	#	78
21) IPA	6.40	45	14463m	0.57	PPBv		
24) HEXANE	9.32	57	24266m	0.61	PPBv		
30) BENZENE	11.09	78	21824	0.29	PPBv		100
43) TOLUENE	14.69	91	166341	1.94	PPBv	#	100
47) TETRACHLOROETHENE	16.21	166	8287m	0.20	PPBv		
52) M/P-XYLENE	17.93	106	9271m	0.24	PPBv		
54) STYRENE	18.48	104	13626m	0.28	PPBv		

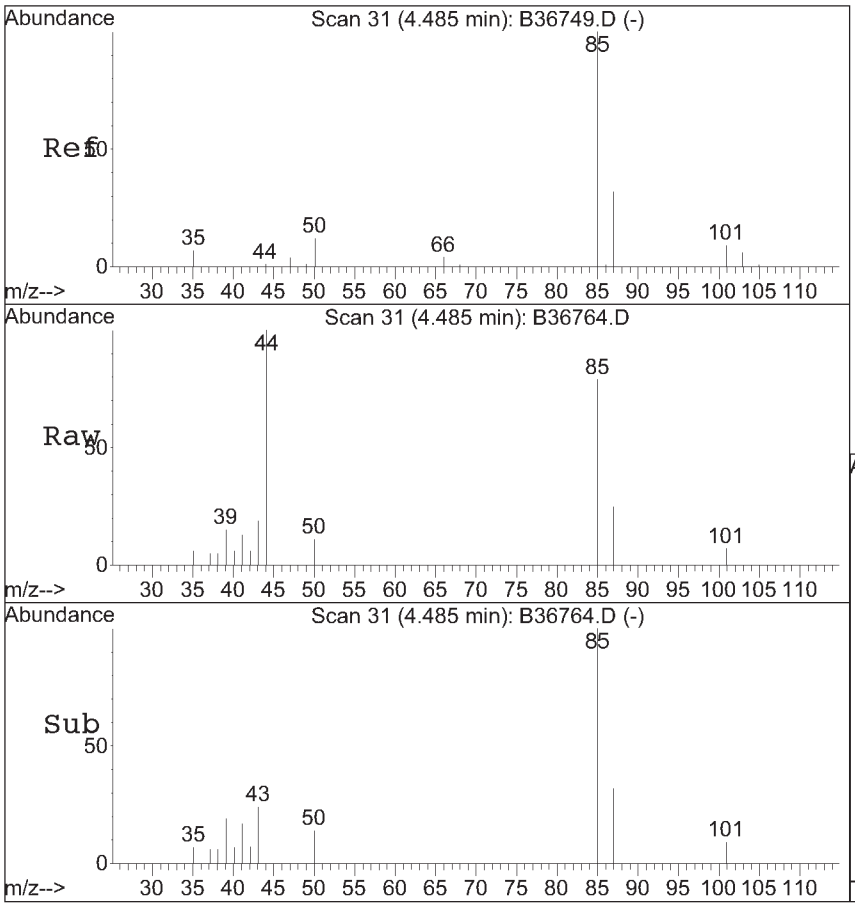
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\MAR2011\AIR2\031111\B36764.D Vial: 10
Acq On : 11 Mar 2011 9:52 pm Operator: KG
Sample : sb25245-04 @ b3-ia1 1x to-15 Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 14 10:42 2011 Quant Results File: T2021511H.RE

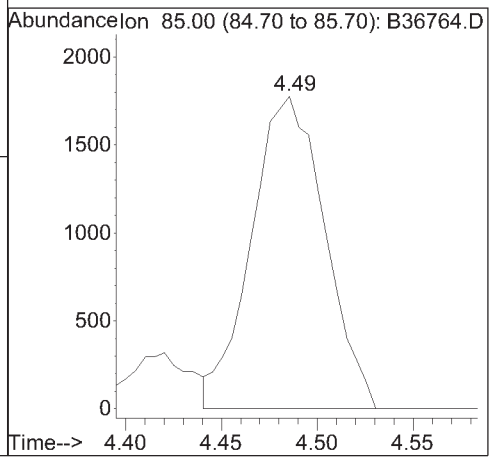
Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration

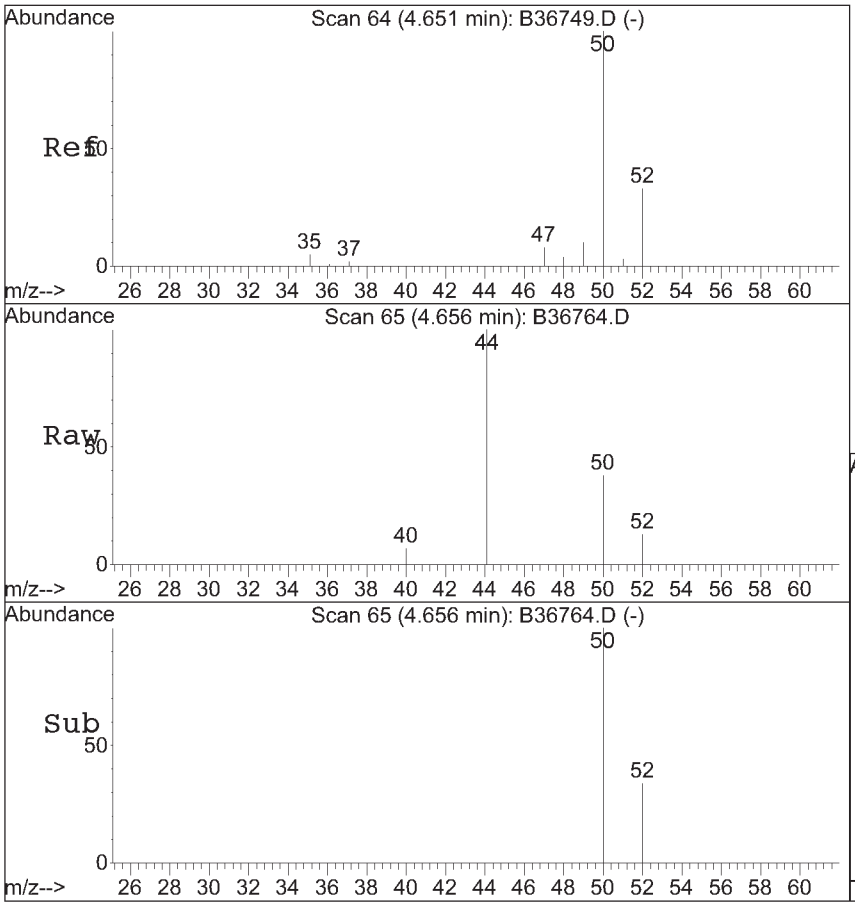




#3
DICHLORODIFLUOROMETHANE
Concen: 0.71 PPBv
RT: 4.49 min Scan# 31
Delta R.T. 0.00 min
Lab File: B36764.D
Acq: 11 Mar 2011 9:52 pm

Tgt Ion: 85 Resp: 47566

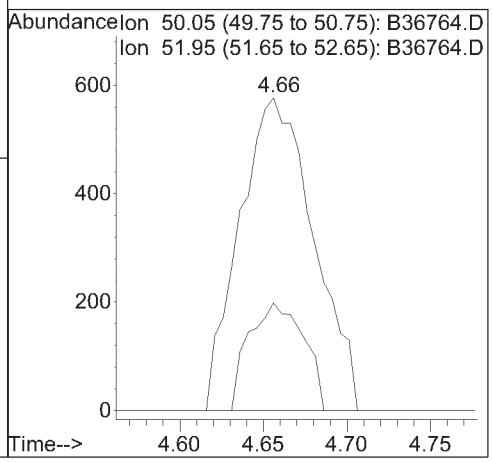


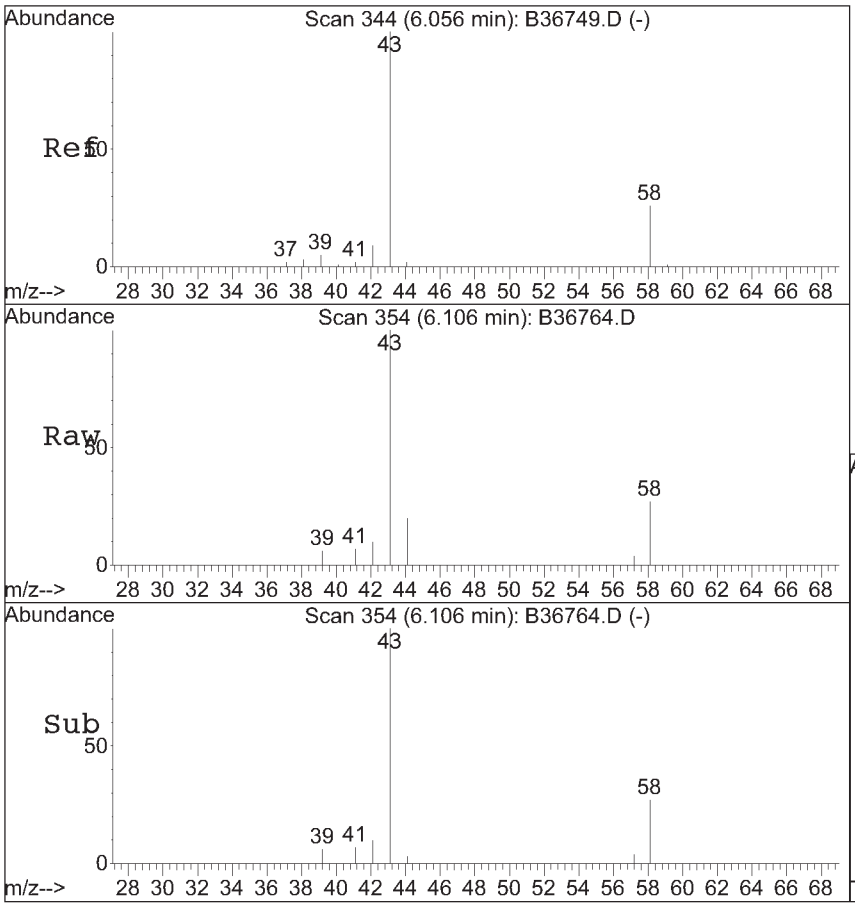


#4
CHLOROMETHANE
Concen: 0.59 PPBv
RT: 4.66 min Scan# 65
Delta R.T. 0.01 min
Lab File: B36764.D
Acq: 11 Mar 2011 9:52 pm

Tgt Ion: 50 Resp: 17729

Ion	Ratio	Lower	Upper
50	100		
52	0.0	0.0	0.0

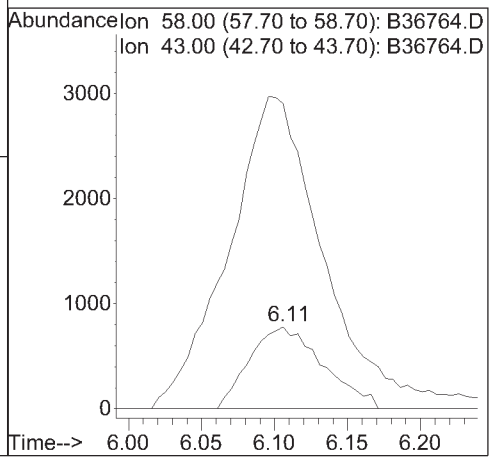


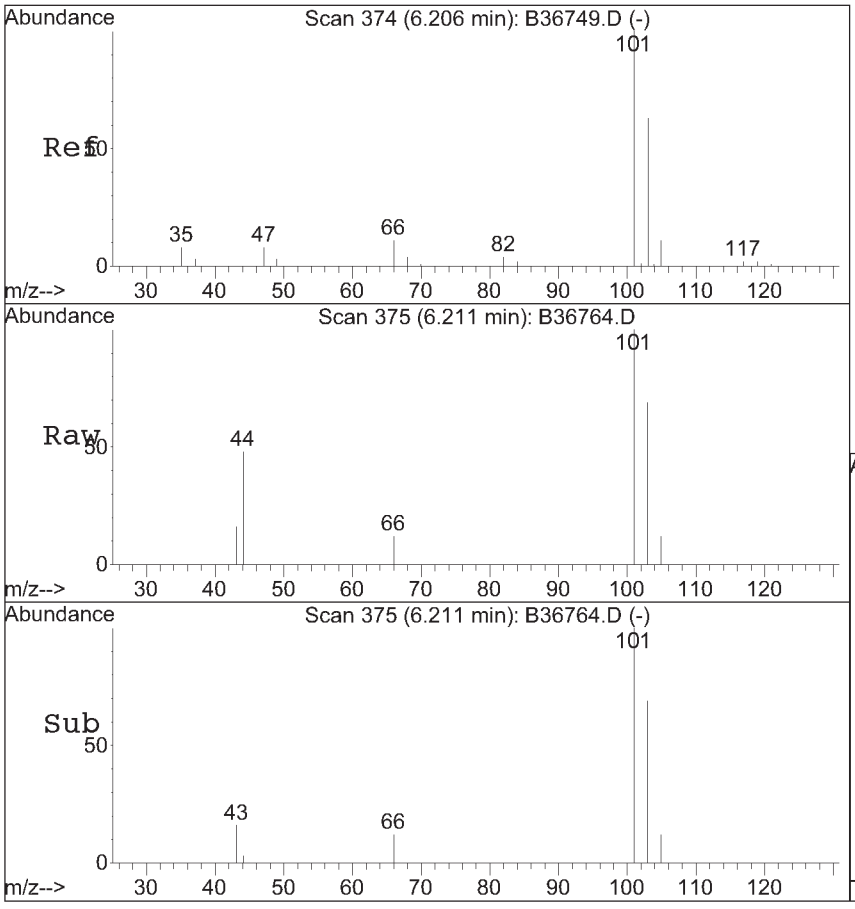


#10
ACETONE
Concen: 3.52 PPBv
RT: 6.11 min Scan# 354
Delta R.T. 0.05 min
Lab File: B36764.D
Acq: 11 Mar 2011 9:52 pm

Tgt Ion: 58 Resp: 27310

Ion	Ratio	Lower	Upper
58	100		
43	462.6	0.0	0.0#

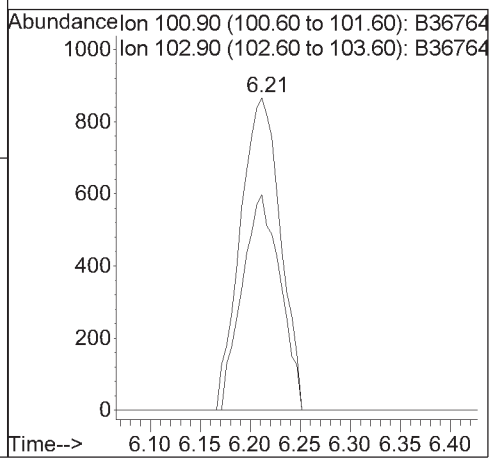


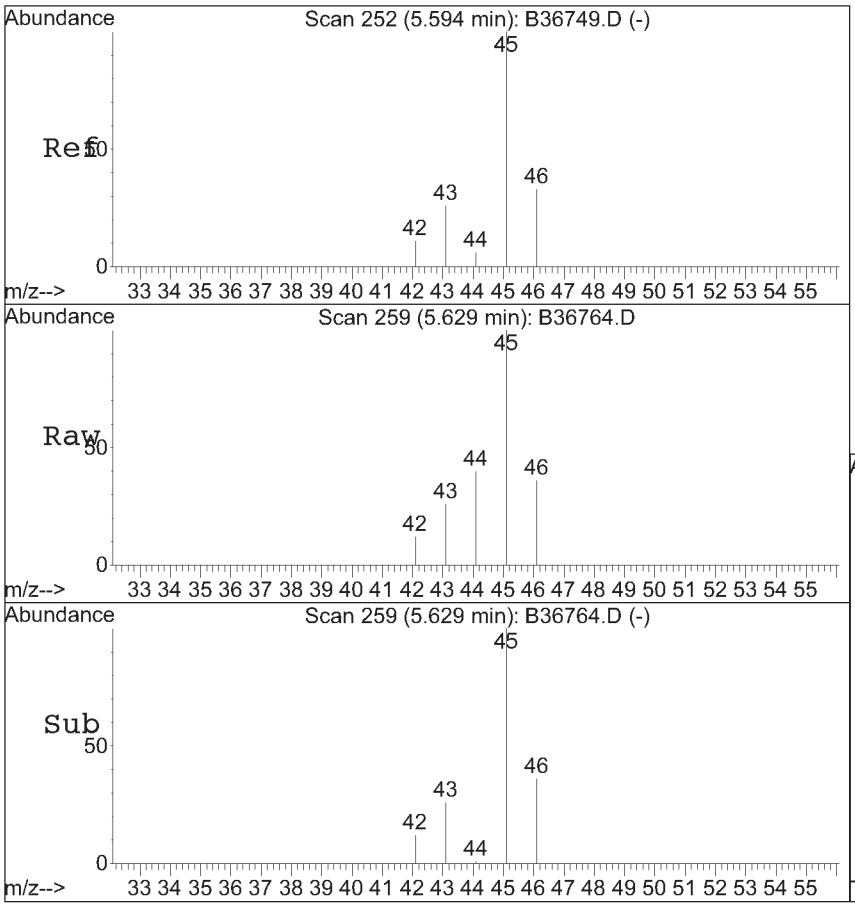


#11
TRICHLOROFLUOROMETHANE
Concen: 0.35 PPBv m
RT: 6.21 min Scan# 375
Delta R.T. 0.01 min
Lab File: B36764.D
Acq: 11 Mar 2011 9:52 pm

Tgt Ion:101 Resp: 24164

Ion	Ratio	Lower	Upper
101	100		
103	0.0	51.4	77.2#

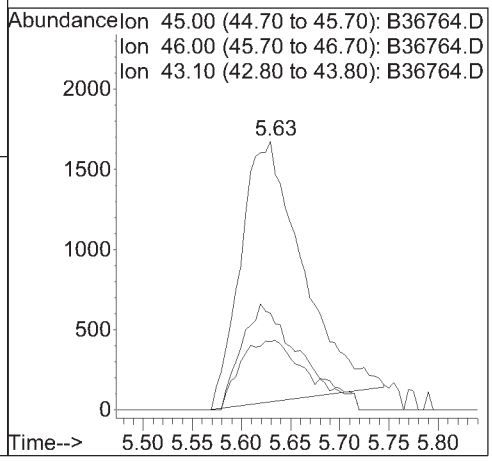


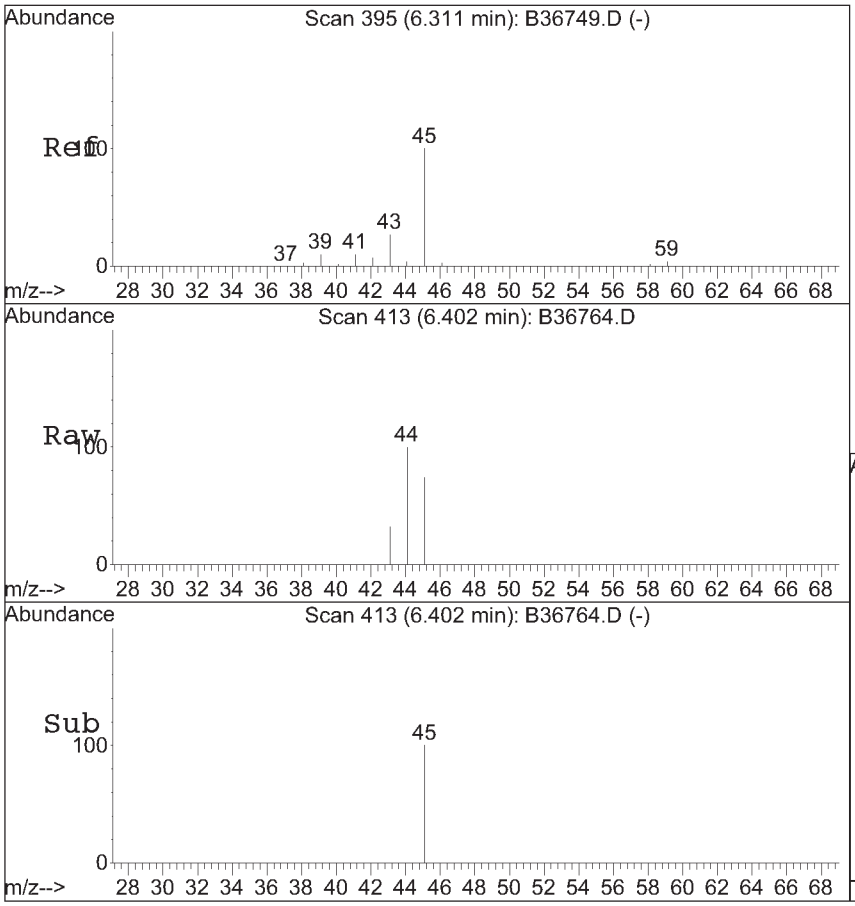


#12
ETHANOL
Concen: 12.17 PPBv
RT: 5.63 min Scan# 259
Delta R.T. 0.05 min
Lab File: B36764.D
Acq: 11 Mar 2011 9:52 pm

Tgt Ion: 45 Resp: 71423

Ion	Ratio	Lower	Upper
45	100		
46	38.7	28.9	43.3
43	0.0	23.7	23.7#

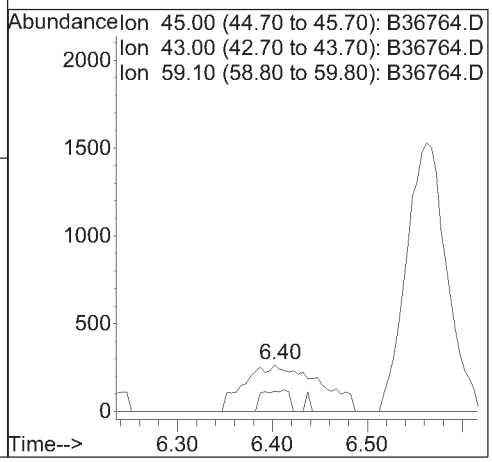


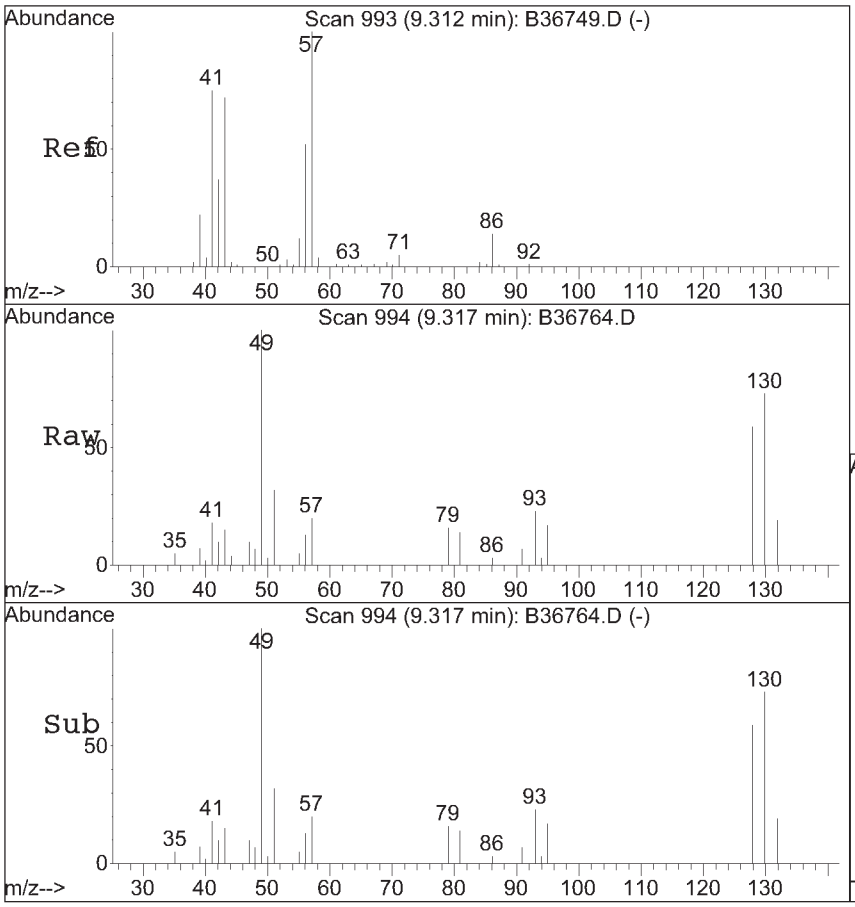


#21
IPA
Concen: 0.57 PPBv m
RT: 6.40 min Scan# 413
Delta R.T. 0.10 min
Lab File: B36764.D
Acq: 11 Mar 2011 9:52 pm

Tgt Ion: 45 Resp: 14463

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	0.0
59	0.0	0.0	0.0

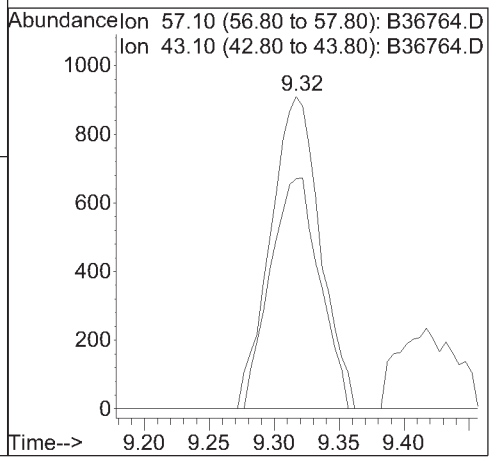


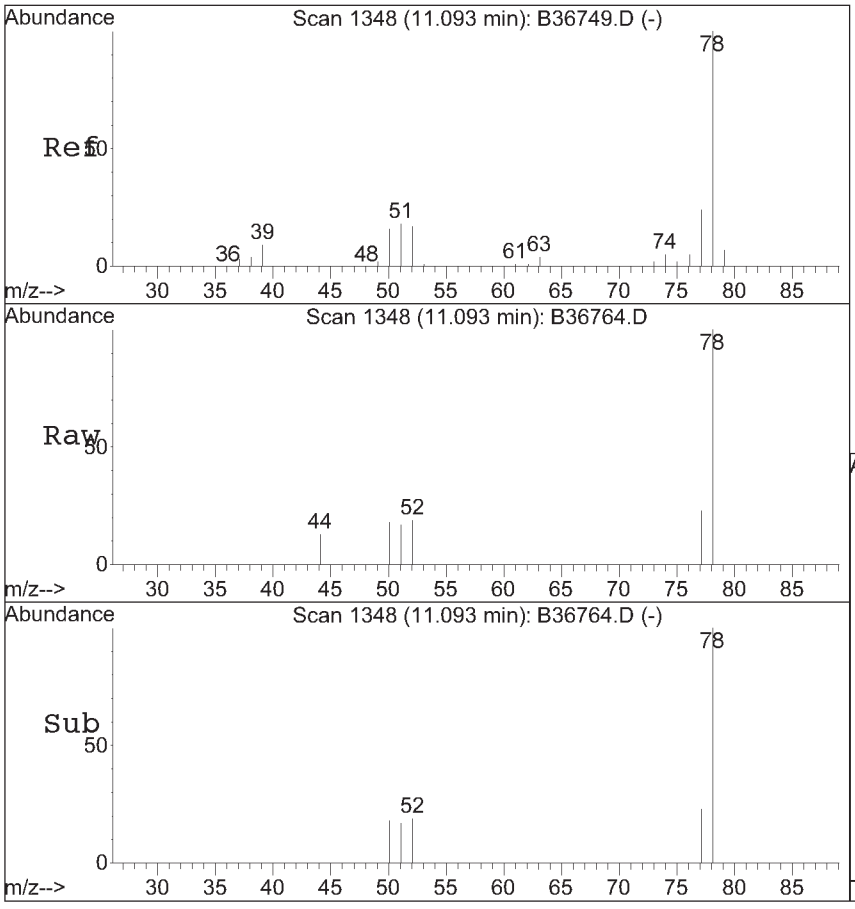


#24
HEXANE
Concen: 0.61 PPBv m
RT: 9.32 min Scan# 994
Delta R.T. 0.00 min
Lab File: B36764.D
Acq: 11 Mar 2011 9:52 pm

Tgt Ion: 57 Resp: 24266

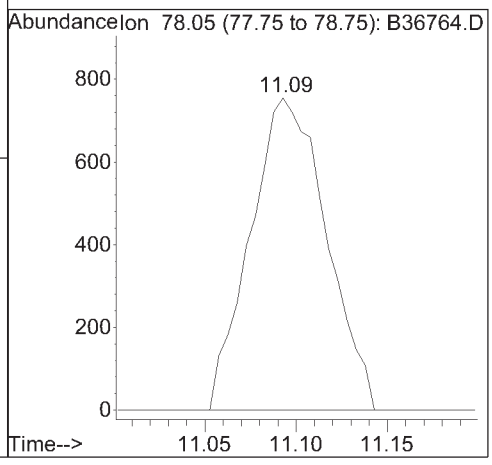
Ion	Ratio	Lower	Upper
57	100		
43	0.0	0.0	0.0

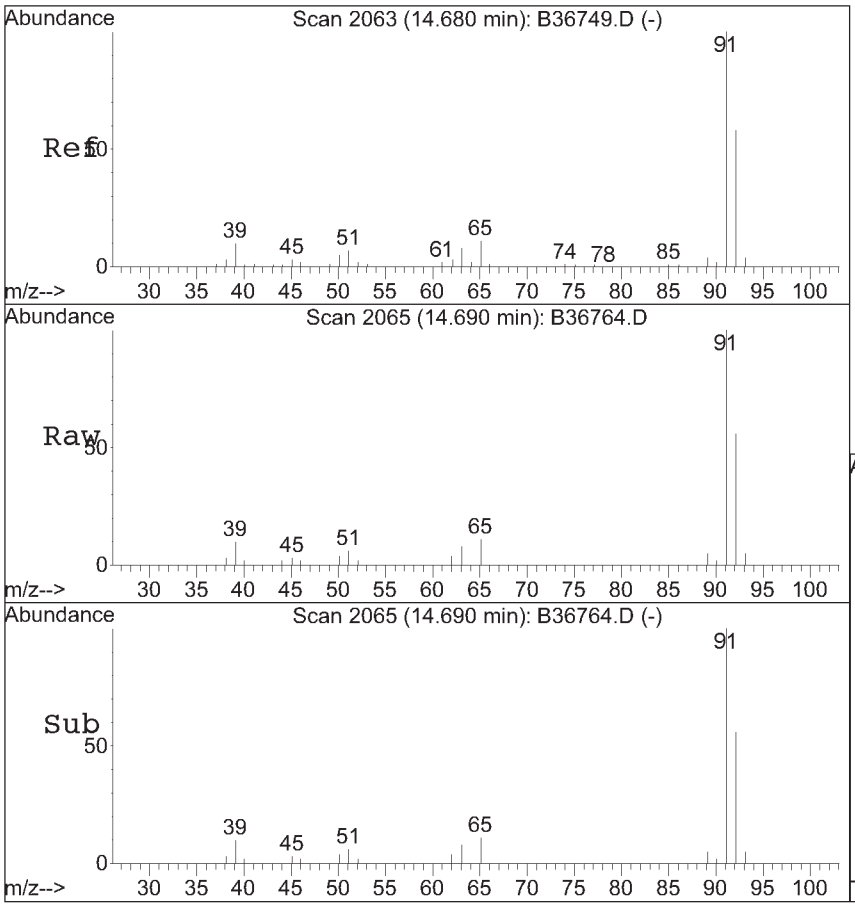




#30
BENZENE
Concen: 0.29 PPBv
RT: 11.09 min Scan# 1348
Delta R.T. 0.00 min
Lab File: B36764.D
Acq: 11 Mar 2011 9:52 pm

Tgt Ion: 78 Resp: 21824

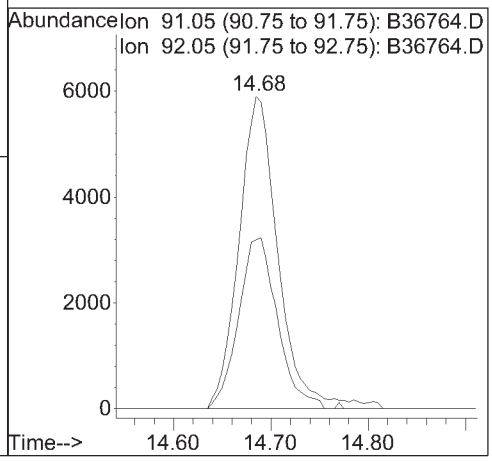


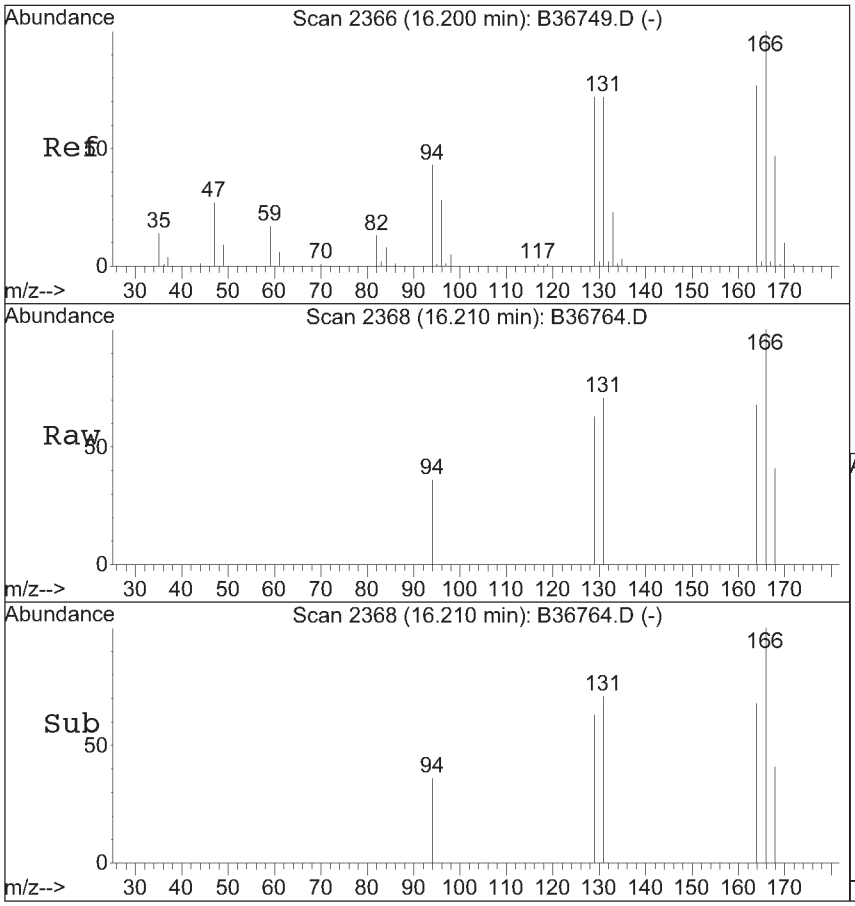


#43
TOLUENE
Concen: 1.94 PPBv
RT: 14.69 min Scan# 2065
Delta R.T. 0.00 min
Lab File: B36764.D
Acq: 11 Mar 2011 9:52 pm

Tgt Ion: 91 Resp: 166341

Ion	Ratio	Lower	Upper
91	100		
92	54.0	0.0	0.0#

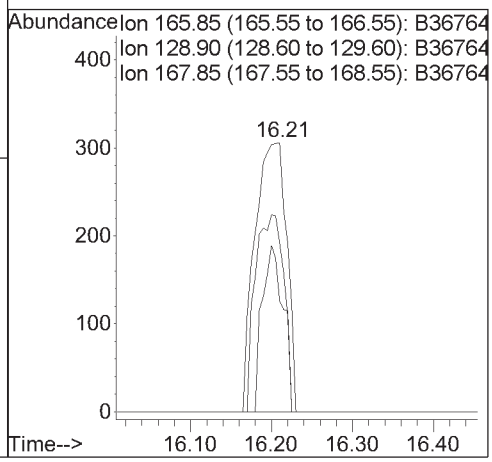




#47
TETRACHLOROETHENE
Concen: 0.20 PPBv m
RT: 16.21 min Scan# 2368
Delta R.T. 0.01 min
Lab File: B36764.D
Acq: 11 Mar 2011 9:52 pm

Tgt Ion:166 Resp: 8287

Ion	Ratio	Lower	Upper
166	100		
129	0.0	0.0	0.0
168	0.0	0.0	0.0



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-SS1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-05	File ID:	A39611.D
Sampled:	03/03/11 12:05			Analyzed:	03/08/11 19:33
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104127	Sequence:	S101712	Calibration:	1103003	Instrument:	Air1

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
115-07-1	Propene	0.0930	0.16	U
75-71-8	Dichlorodifluoromethane (Freon12)	0.660	3.26	
74-87-3	Chloromethane	0.455	0.94	U
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.390	2.73	U
75-01-4	Vinyl chloride	0.278	0.71	U
106-99-0	1,3-Butadiene	0.149	0.33	U
74-83-9	Bromomethane	0.249	0.97	U
75-00-3	Chloroethane	0.219	0.58	U
67-64-1	Acetone	0.271	0.64	U
75-69-4	Trichlorofluoromethane (Freon 11)	0.379	2.13	U
64-17-5	Ethanol	0.440	0.83	U
75-35-4	1,1-Dichloroethene	0.163	0.65	U
107-13-1	Acrylonitrile	0.0700	0.15	U
75-09-2	Methylene chloride	0.129	0.45	U
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.202	1.55	U
75-15-0	Carbon disulfide	0.185	0.58	U
156-60-5	trans-1,2-Dichloroethene	0.0660	0.26	U
75-34-3	1,1-Dichloroethane	0.150	0.61	U
1634-04-4	Methyl tert-butyl ether	0.0780	0.28	U
67-63-0	Isopropyl alcohol	0.300	0.74	J
78-93-3	2-Butanone (MEK)	0.680	2.01	
156-59-2	cis-1,2-Dichloroethene	0.101	0.40	U
110-54-3	Hexane	0.560	1.97	
141-78-6	Ethyl acetate	0.334	1.20	U
67-66-3	Chloroform	0.260	1.27	J
109-99-9	Tetrahydrofuran	0.167	0.49	U
107-06-2	1,2-Dichloroethane	0.162	0.66	U
71-55-6	1,1,1-Trichloroethane	0.300	1.64	J
71-43-2	Benzene	0.100	0.32	U
56-23-5	Carbon tetrachloride	0.176	1.11	U
110-82-7	Cyclohexane	0.0640	0.22	U
78-87-5	1,2-Dichloropropane	0.0730	0.34	U
75-27-4	Bromodichloromethane	0.127	0.85	U
79-01-6	Trichloroethene	0.0800	0.43	U
123-91-1	1,4-Dioxane	0.0870	0.31	U
142-82-5	n-Heptane	0.284	1.16	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.132	0.54	U
10061-01-5	cis-1,3-Dichloropropene	0.104	0.47	U
10061-02-6	trans-1,3-Dichloropropene	0.0670	0.30	U
79-00-5	1,1,2-Trichloroethane	0.125	0.68	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-SS1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-05	File ID:	A39611.D
Sampled:	03/03/11 12:05			Analyzed:	03/08/11 19:33
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104127	Sequence:	S101712	Calibration:	1103003
Instrument:	Air1				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
108-88-3	Toluene	2.46	9.26	
591-78-6	2-Hexanone (MBK)	0.106	0.43	U
124-48-1	Dibromochloromethane	0.130	1.11	U
106-93-4	1,2-Dibromoethane (EDB)	0.0890	0.68	U
127-18-4	Tetrachloroethene	18.7	126.81	
108-90-7	Chlorobenzene	0.132	0.61	U
100-41-4	Ethylbenzene	0.0620	0.27	U
630-20-6	1,1,1,2-Tetrachloroethane	0.164	1.13	U
179601-23-1	m,p-Xylene	0.380	1.65	J
75-25-2	Bromoform	0.153	1.58	U
100-42-5	Styrene	0.0500	0.21	U
95-47-6	o-Xylene	0.110	0.48	U
79-34-5	1,1,2,2-Tetrachloroethane	0.170	1.17	U
108-67-8	1,3,5-Trimethylbenzene	0.211	1.04	U
622-96-8	4-Ethyltoluene	0.0940	0.46	U
95-63-6	1,2,4-Trimethylbenzene	0.0890	0.44	U
98-82-8	Isopropylbenzene	0.0930	0.46	U
541-73-1	1,3-Dichlorobenzene	0.124	0.75	U
100-44-7	Benzyl chloride	0.164	0.85	U
106-46-7	1,4-Dichlorobenzene	0.170	1.02	U
91-20-3	Naphthalene	0.183	0.96	U
95-50-1	1,2-Dichlorobenzene	0.150	0.90	U
120-82-1	1,2,4-Trichlorobenzene	0.335	2.49	U
87-68-3	Hexachlorobutadiene	0.140	1.49	U
135-98-8	sec-Butylbenzene	0.125	0.69	U
99-87-6	4-Isopropyltoluene	0.0880	0.47	U
104-51-8	n-Butylbenzene	0.0930	0.51	U

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\030811\A39611.D Vial: 11
Acq On : 8 Mar 2011 7:33 pm Operator: KG
Sample : sb25245-05 @ b1-ss1 1x to-15 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 9 17:21 2011 Quant Results File: T1022411.RES

Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

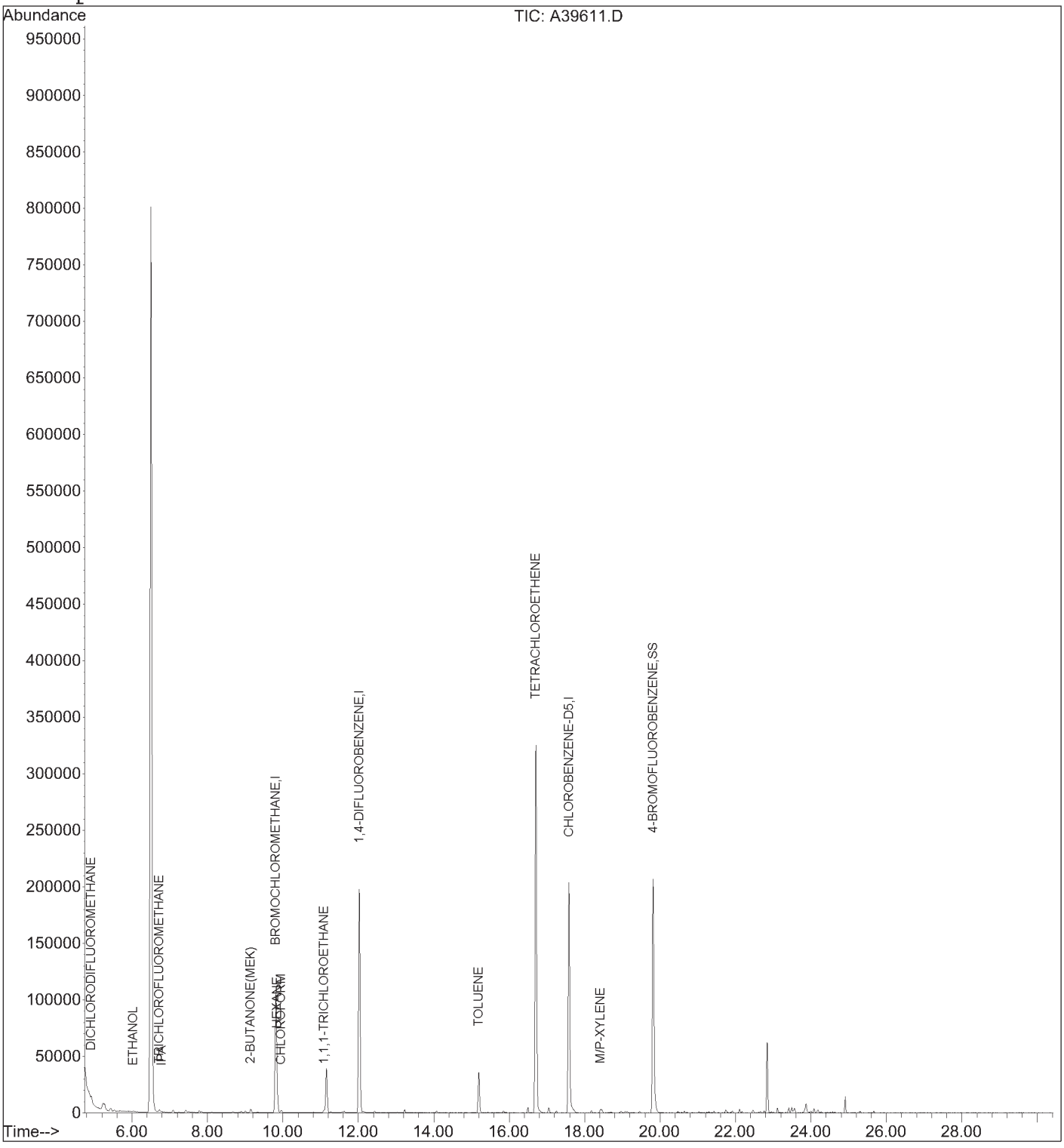
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.81	128	464082	10.00	PPBv	0.00
33) 1,4-DIFLUOROBENZENE	12.02	114	2315850	10.00	PPBv	0.00
48) CHLOROBENZENE-D5	17.58	82	1085941	10.00	PPBv	-0.02
System Monitoring Compounds						
57) 4-BROMOFLUOROBENZENE	19.81	95	1263432	10.43	PPBv	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.30%			
Target Compounds						Qvalue
3) DICHLORODIFLUOROMETHANE	4.92	85	80785	0.66	PPBv	# 49
11) TRICHLOROFLUOROMETHANE	6.73	101	32863	0.34	PPBv	# 18
12) ETHANOL	6.03	45	10253m	0.41	PPBv	
21) IPA	6.79	45	13103m	0.30	PPBv	
22) 2-BUTANONE(MEK)	9.14	72	15709m	0.68	PPBv	
24) HEXANE	9.86	57	40330	0.56	PPBv	# 25
26) CHLOROFORM	9.95	83	25705m	0.26	PPBv	
29) 1,1,1-TRICHLOROETHANE	11.08	97	28635m	0.30	PPBv	
43) TOLUENE	15.19	91	407784	2.46	PPBv	99
47) TETRACHLOROETHENE	16.71	166	1494919	18.69	PPBv	99
52) M/P-XYLENE	18.42	106	28045m	0.38	PPBv	

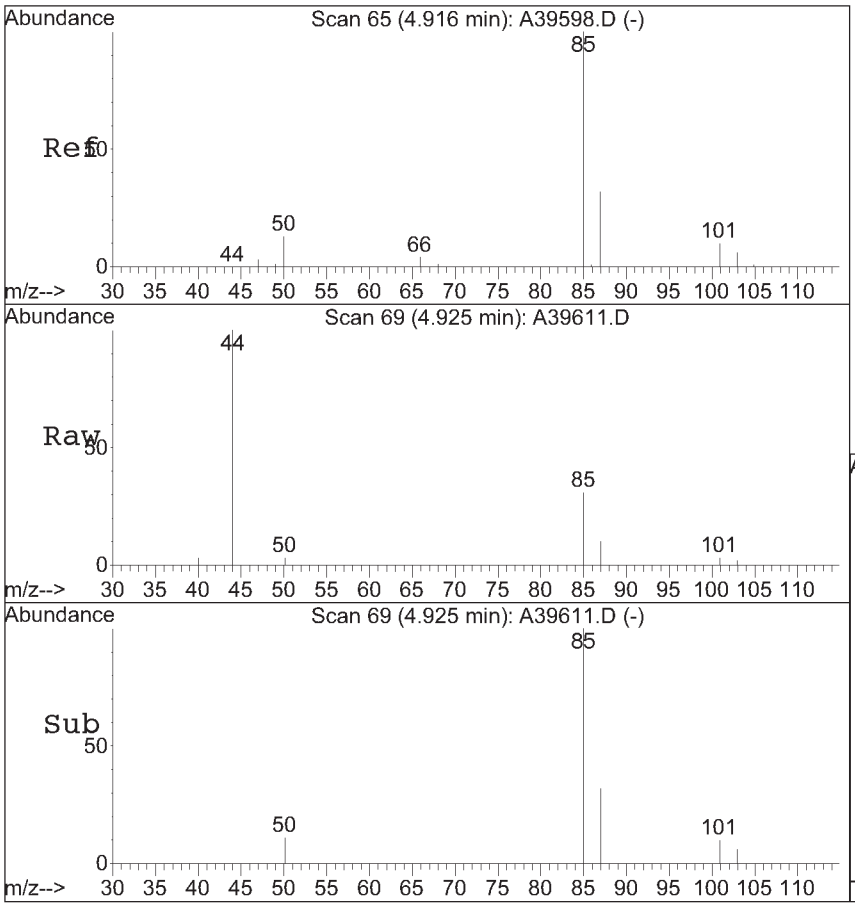
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030811\A39611.D Vial: 11
Acq On : 8 Mar 2011 7:33 pm Operator: KG
Sample : sb25245-05 @ b1-ss1 1x to-15 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 9 17:21 2011 Quant Results File: T1022411.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration

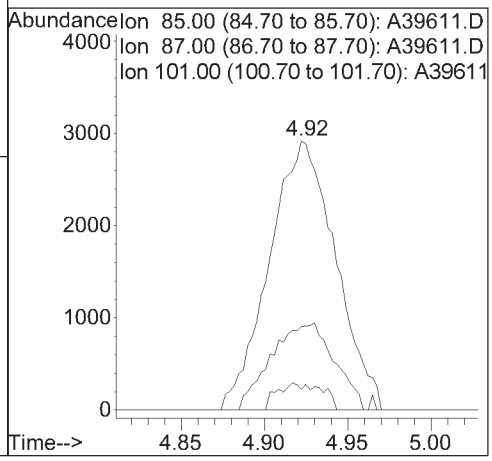


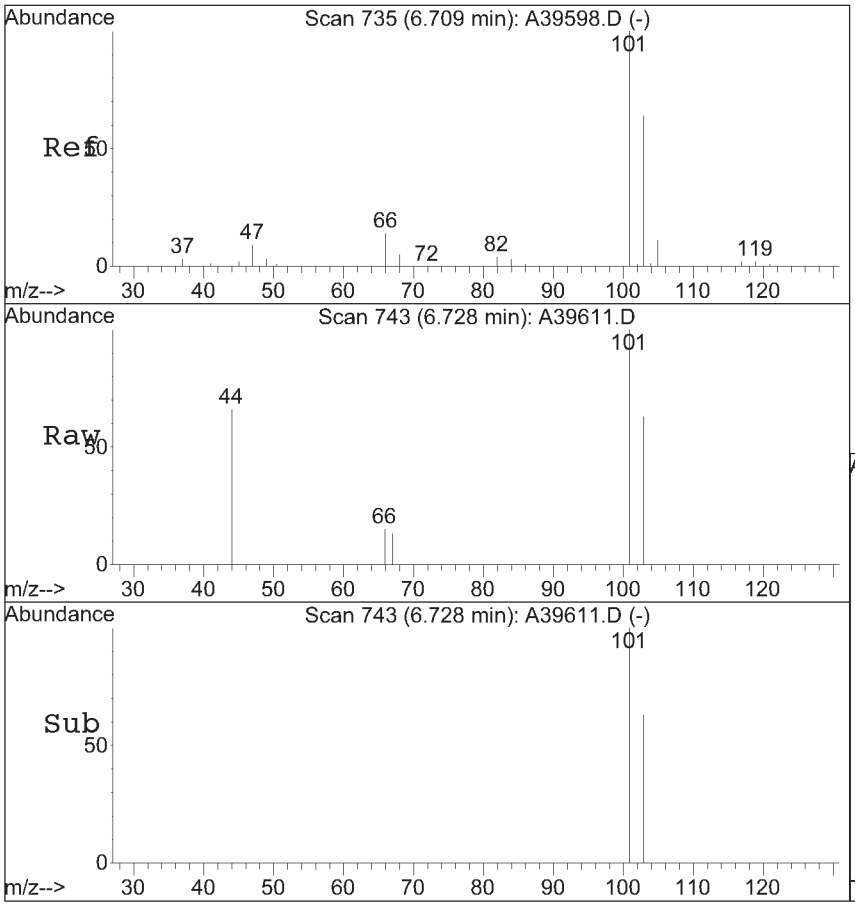


#3
DICHLORODIFLUOROMETHANE
Concen: 0.66 PPBv
RT: 4.92 min Scan# 69
Delta R.T. 0.01 min
Lab File: A39611.D
Acq: 8 Mar 2011 7:33 pm

Tgt Ion: 85 Resp: 80785

Ion	Ratio	Lower	Upper
85	100		
87	0.0	26.1	39.1#
101	0.0	7.4	11.0#

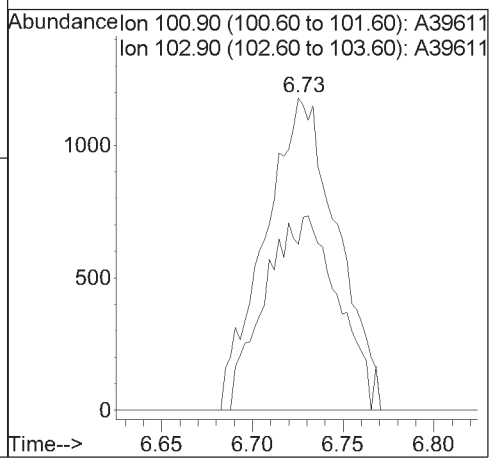


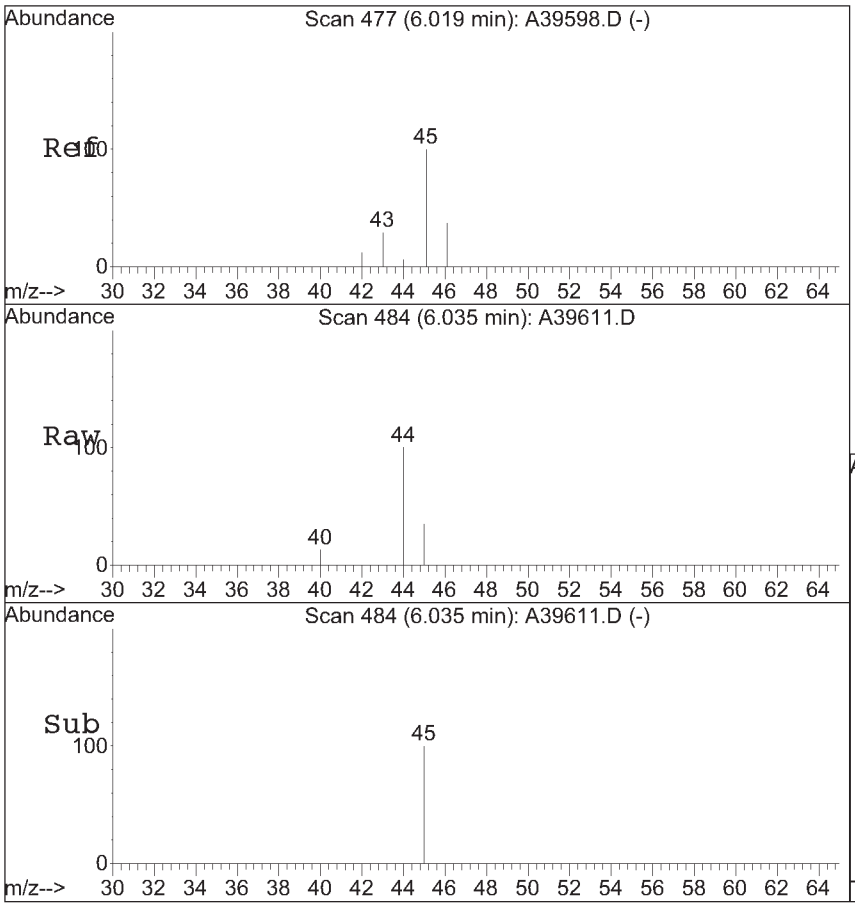


#11
TRICHLOROFLUOROMETHANE
Concen: 0.34 PPBv
RT: 6.73 min Scan# 743
Delta R.T. 0.02 min
Lab File: A39611.D
Acq: 8 Mar 2011 7:33 pm

Tgt Ion:101 Resp: 32863

Ion	Ratio	Lower	Upper
101	100		
103	0.0	51.8	77.6#

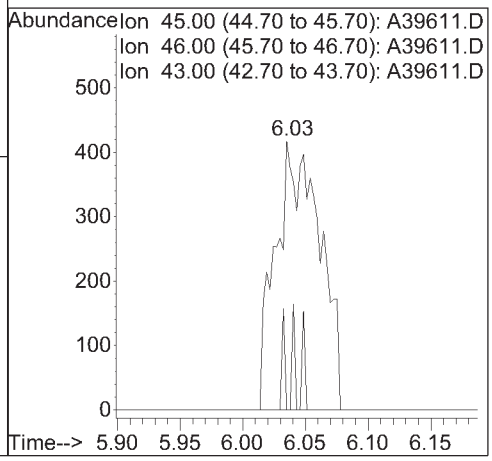


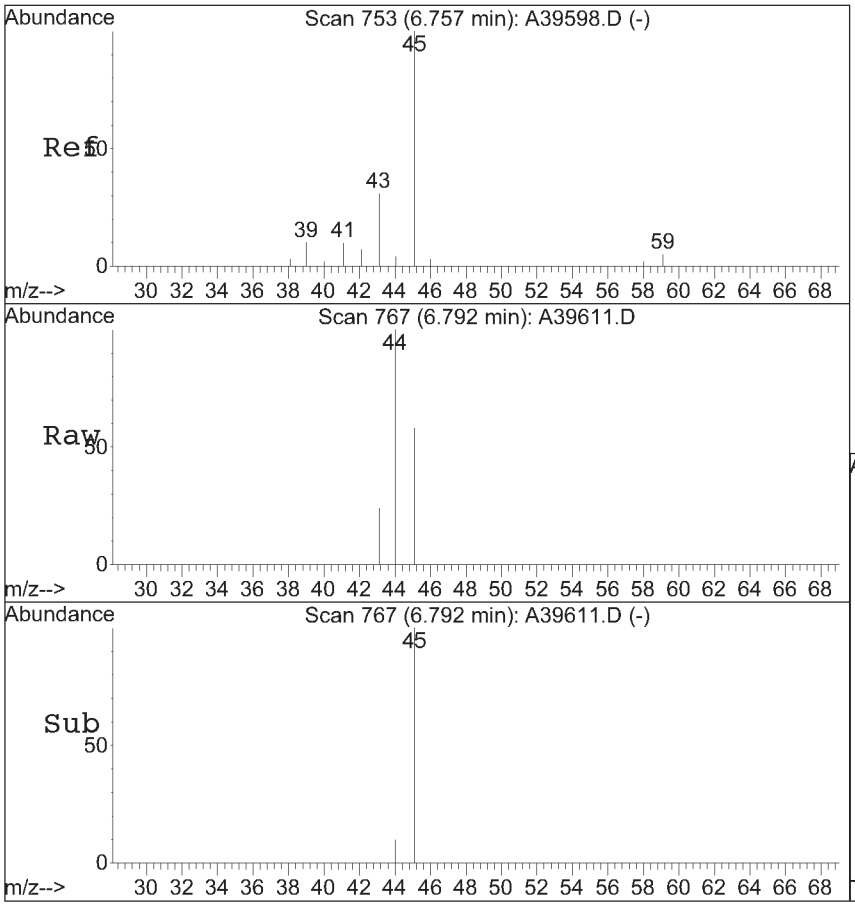


#12
ETHANOL
Concen: 0.41 PPBv m
RT: 6.03 min Scan# 484
Delta R.T. 0.01 min
Lab File: A39611.D
Acq: 8 Mar 2011 7:33 pm

Tgt Ion: 45 Resp: 10253

Ion	Ratio	Lower	Upper
45	100		
46	0.0	30.6	46.0#
43	0.0	18.0	27.0#

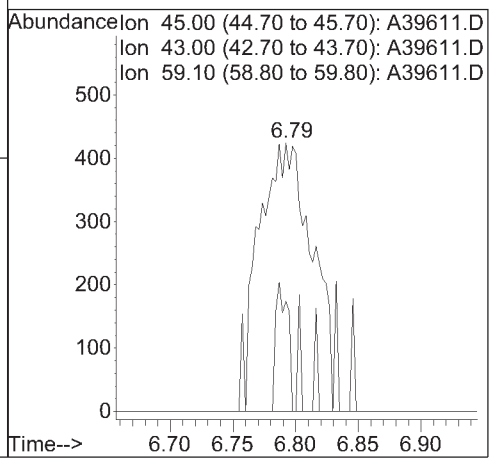


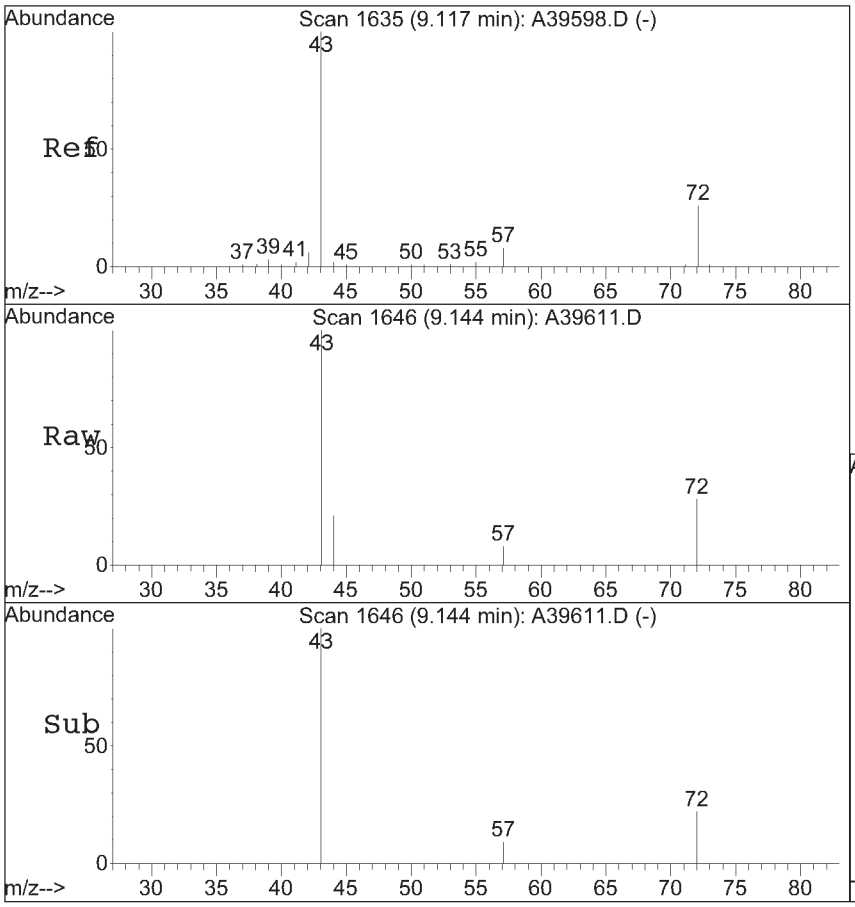


#21
IPA
Concen: 0.30 PPBv m
RT: 6.79 min Scan# 767
Delta R.T. 0.03 min
Lab File: A39611.D
Acq: 8 Mar 2011 7:33 pm

Tgt Ion: 45 Resp: 13103

Ion	Ratio	Lower	Upper
45	100		
43	0.0	16.2	24.2#
59	0.0	3.0	4.4#

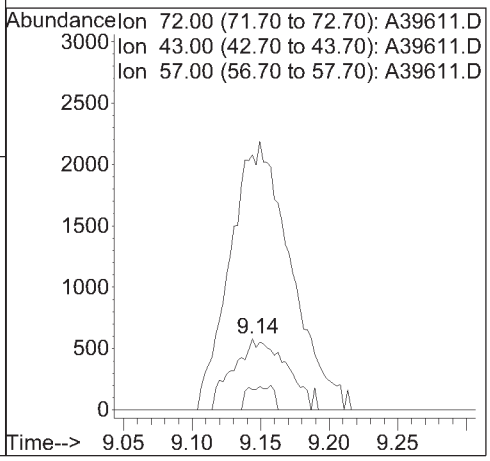


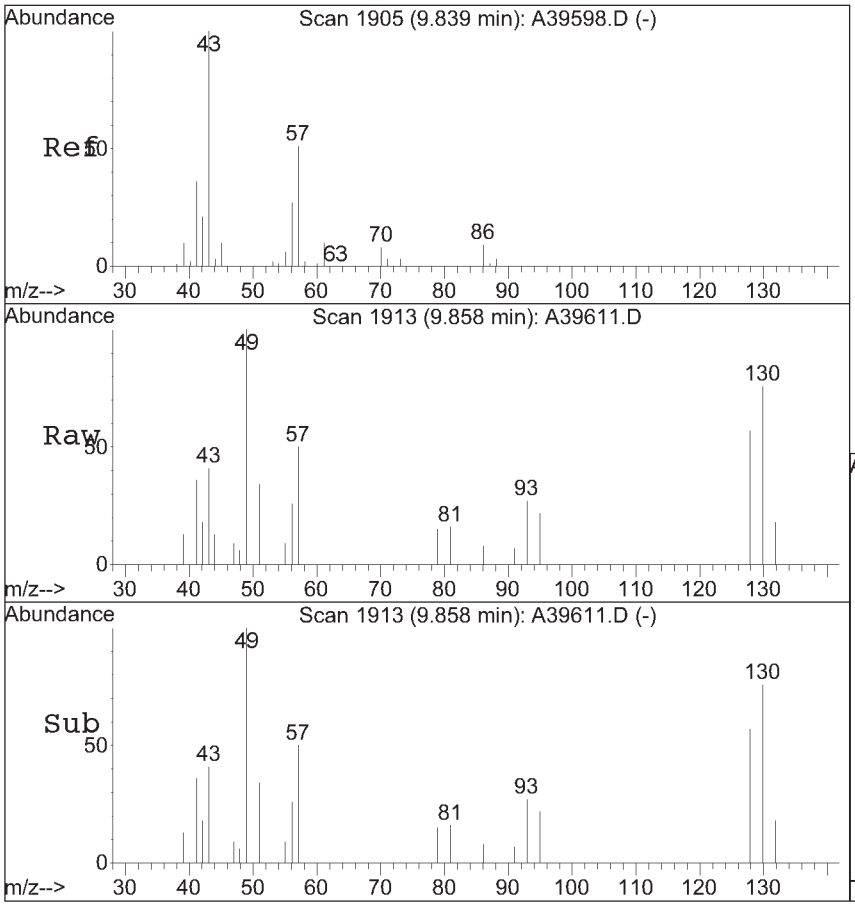


#22
2-BUTANONE(MEK)
Concen: 0.68 PPBv m
RT: 9.14 min Scan# 1646
Delta R.T. 0.01 min
Lab File: A39611.D
Acq: 8 Mar 2011 7:33 pm

Tgt Ion: 72 Resp: 15709

Ion	Ratio	Lower	Upper
72	100		
43	0.0	222.2	333.4#
57	0.0	987.4	1481.0#

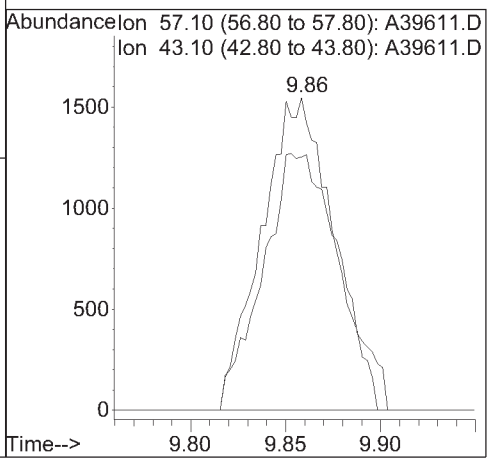


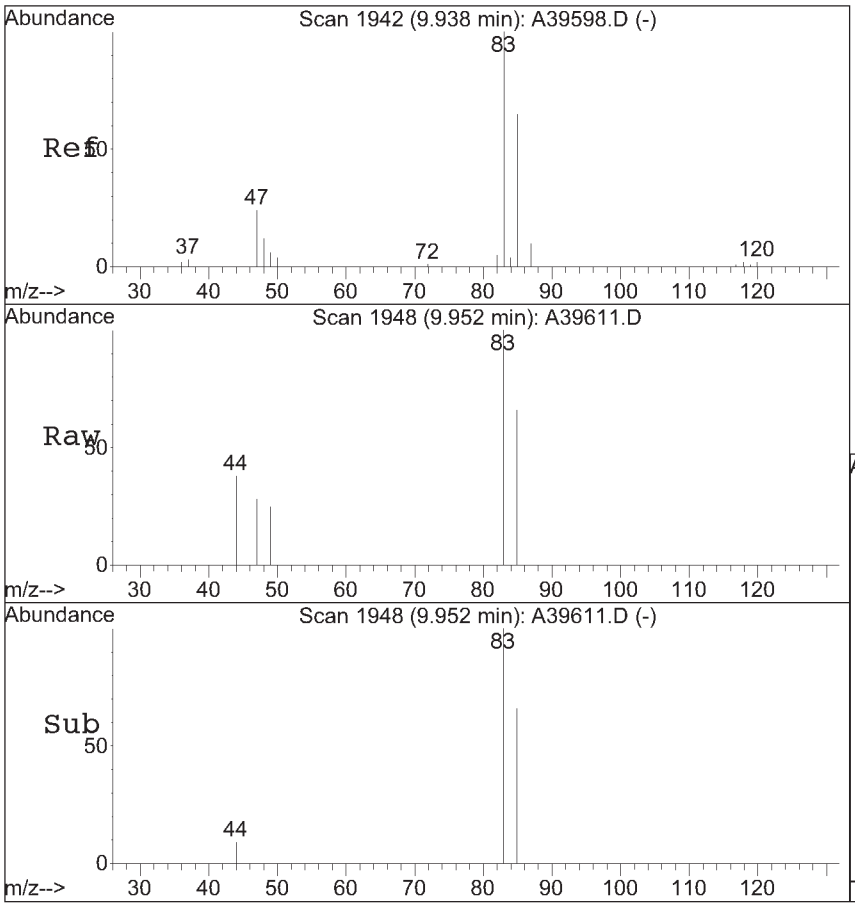


#24
HEXANE
Concen: 0.56 PPBv
RT: 9.86 min Scan# 1913
Delta R.T. 0.00 min
Lab File: A39611.D
Acq: 8 Mar 2011 7:33 pm

Tgt Ion: 57 Resp: 40330

Ion	Ratio	Lower	Upper
57	100		
43	89.5	163.9	245.9#

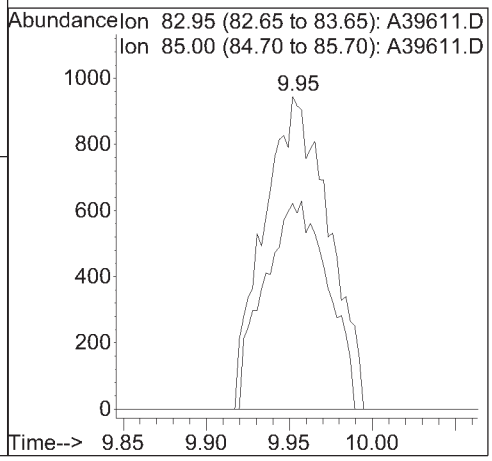


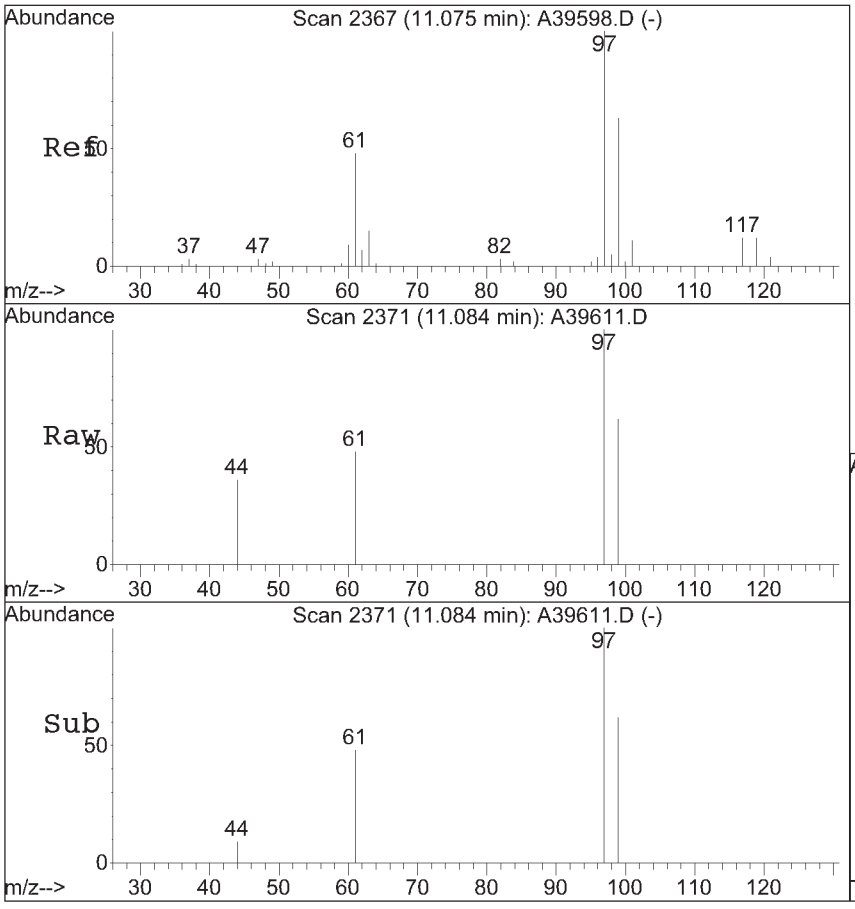


#26
CHLOROFORM
Concen: 0.26 PPBv m
RT: 9.95 min Scan# 1948
Delta R.T. -0.01 min
Lab File: A39611.D
Acq: 8 Mar 2011 7:33 pm

Tgt Ion: 83 Resp: 25705

Ion	Ratio	Lower	Upper
83	100		
85	0.0	52.1	78.1#

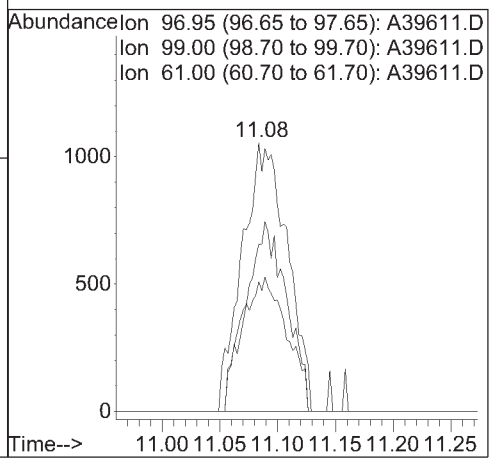


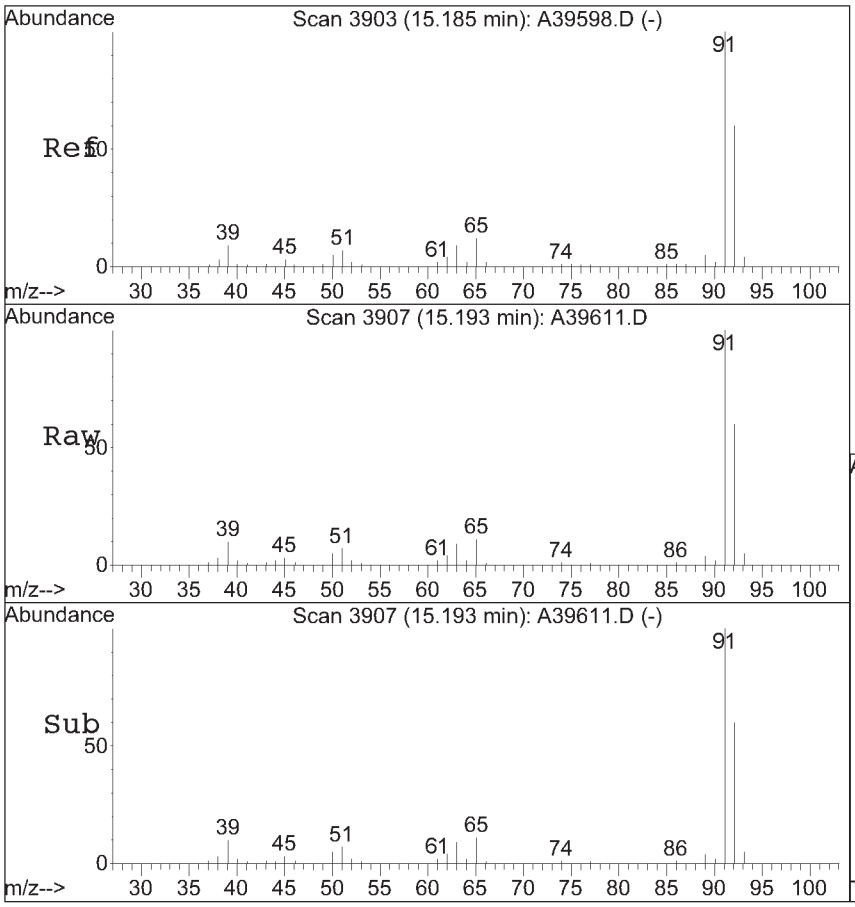


#29
1,1,1-TRICHLOROETHANE
Concen: 0.30 PPBv m
RT: 11.08 min Scan# 2371
Delta R.T. -0.01 min
Lab File: A39611.D
Acq: 8 Mar 2011 7:33 pm

Tgt Ion: 97 Resp: 28635

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.7	77.5#
61	0.0	38.8	58.2#

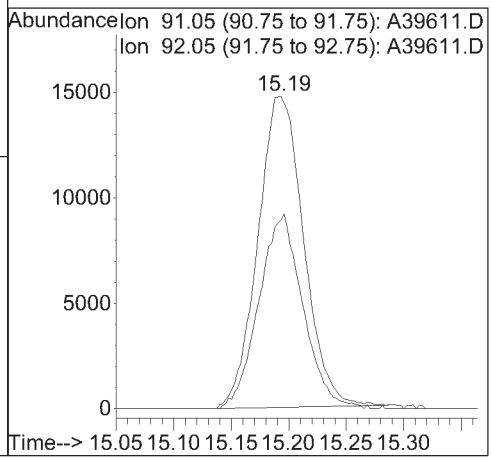


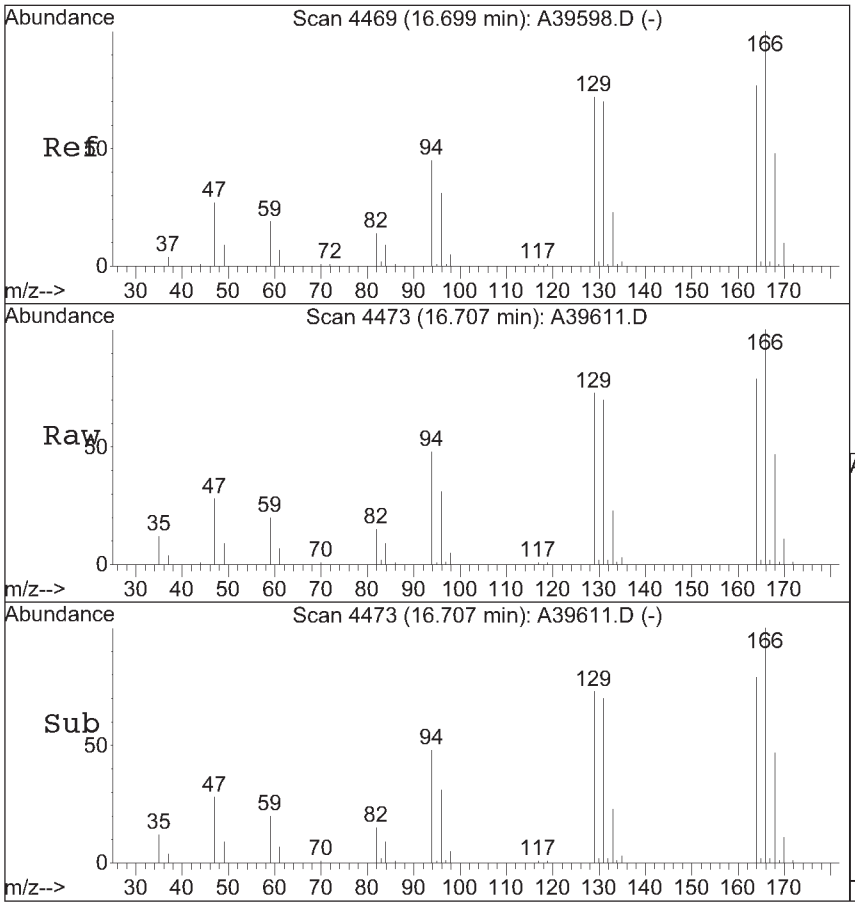


#43
TOLUENE
Concen: 2.46 PPBv
RT: 15.19 min Scan# 3907
Delta R.T. -0.02 min
Lab File: A39611.D
Acq: 8 Mar 2011 7:33 pm

Tgt Ion: 91 Resp: 407784

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.1	72.1

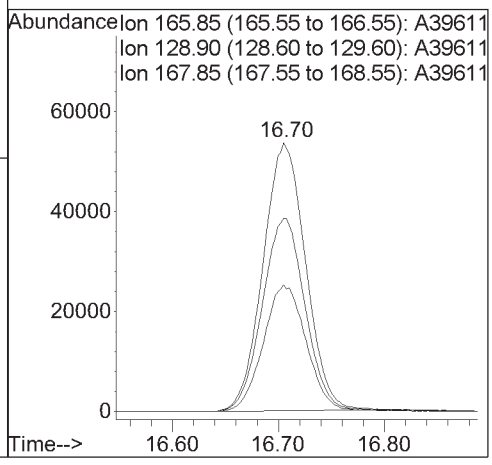


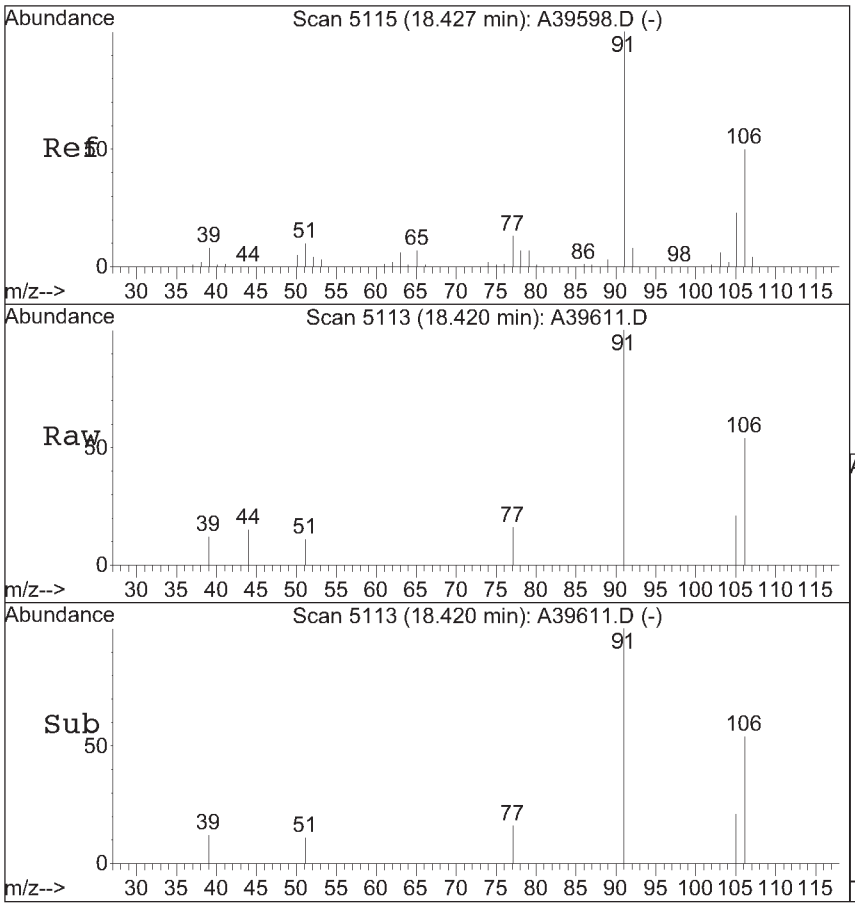


#47
TETRACHLOROETHENE
Concen: 18.69 PPBv
RT: 16.71 min Scan# 4473
Delta R.T. -0.02 min
Lab File: A39611.D
Acq: 8 Mar 2011 7:33 pm

Tgt Ion:166 Resp: 1494919

Ion	Ratio	Lower	Upper
166	100		
129	72.1	56.6	84.8
168	47.3	38.0	57.0

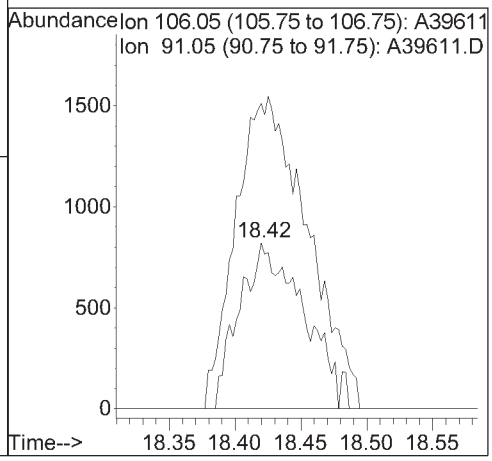




#52
M/P-XYLENE
Concen: 0.38 PPBv m
RT: 18.42 min Scan# 5113
Delta R.T. -0.03 min
Lab File: A39611.D
Acq: 8 Mar 2011 7:33 pm

Tgt Ion:106 Resp: 28045

Ion	Ratio	Lower	Upper
106	100		
91	0.0	155.7	233.5#



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-IA1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-06	File ID:	C07487.D
Sampled:	03/03/11 09:52			Analyzed:	03/10/11 16:58
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
71-55-6	1,1,1-Trichloroethane	0.052000	0.28	U
115-07-1	Propene	0.084000	0.14	U
75-71-8	Dichlorodifluoromethane (Freon12)	0.48000	2.37	
74-87-3	Chloromethane	0.49000	1.01	
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.057000	0.40	U
75-01-4	Vinyl chloride	0.064000	0.16	U
106-99-0	1,3-Butadiene	0.055000	0.12	U
74-83-9	Bromomethane	0.052000	0.20	U
75-00-3	Chloroethane	0.076000	0.20	U
67-64-1	Acetone	3.6300	8.63	
75-69-4	Trichlorofluoromethane (Freon 11)	0.27000	1.52	
64-17-5	Ethanol	10.880	20.51	E
75-35-4	1,1-Dichloroethene	0.073000	0.29	U
107-13-1	Acrylonitrile	0.064000	0.14	U
75-09-2	Methylene chloride	0.82000	2.85	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.090000	0.69	J
75-15-0	Carbon disulfide	0.057000	0.18	U
156-60-5	trans-1,2-Dichloroethene	0.042000	0.17	U
75-34-3	1,1-Dichloroethane	0.049000	0.20	U
1634-04-4	Methyl tert-butyl ether	0.049000	0.18	U
67-63-0	Isopropyl alcohol	1.4000	3.44	
78-93-3	2-Butanone (MEK)	0.85000	2.51	
156-59-2	cis-1,2-Dichloroethene	0.049000	0.19	U
110-54-3	Hexane	0.21000	0.74	J
141-78-6	Ethyl acetate	1.0200	3.68	
67-66-3	Chloroform	0.045000	0.22	U
109-99-9	Tetrahydrofuran	0.053000	0.16	U
107-06-2	1,2-Dichloroethane	0.080000	0.32	J
71-43-2	Benzene	0.24000	0.77	
56-23-5	Carbon tetrachloride	0.080000	0.50	J
110-82-7	Cyclohexane	0.081000	0.28	U
78-87-5	1,2-Dichloropropane	0.049000	0.23	U
75-27-4	Bromodichloromethane	0.053000	0.36	U
79-01-6	Trichloroethene	0.052000	0.28	U
123-91-1	1,4-Dioxane	0.067000	0.24	U
142-82-5	n-Heptane	0.090000	0.37	J
108-10-1	4-Methyl-2-pentanone (MIBK)	0.070000	0.29	J
10061-01-5	cis-1,3-Dichloropropene	0.047000	0.21	U
10061-02-6	trans-1,3-Dichloropropene	0.047000	0.21	U
79-00-5	1,1,2-Trichloroethane	0.066000	0.36	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-IA1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-06	File ID:	C07487.D
Sampled:	03/03/11 09:52			Analyzed:	03/10/11 16:58
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
108-88-3	Toluene	1.0500	3.95	
591-78-6	2-Hexanone (MBK)	0.042000	0.17	U
124-48-1	Dibromochloromethane	0.059000	0.50	U
106-93-4	1,2-Dibromoethane (EDB)	0.043000	0.33	U
127-18-4	Tetrachloroethene	0.16000	1.08	
108-90-7	Chlorobenzene	0.061000	0.28	U
100-41-4	Ethylbenzene	0.24000	1.04	
630-20-6	1,1,1,2-Tetrachloroethane	0.047000	0.32	U
179601-23-1	m,p-Xylene	0.57000	2.47	
75-25-2	Bromoform	0.046000	0.48	U
100-42-5	Styrene	0.37000	1.57	
95-47-6	o-Xylene	0.22000	0.95	
79-34-5	1,1,2,2-Tetrachloroethane	0.066000	0.45	U
108-67-8	1,3,5-Trimethylbenzene	0.046000	0.23	U
622-96-8	4-Ethyltoluene	0.055000	0.27	U
95-63-6	1,2,4-Trimethylbenzene	0.16000	0.79	
98-82-8	Isopropylbenzene	0.056000	0.28	U
541-73-1	1,3-Dichlorobenzene	0.055000	0.33	U
100-44-7	Benzyl chloride	0.062000	0.32	U
106-46-7	1,4-Dichlorobenzene	0.061000	0.37	U
91-20-3	Naphthalene	0.31000	1.62	J
95-50-1	1,2-Dichlorobenzene	0.053000	0.32	U
120-82-1	1,2,4-Trichlorobenzene	0.053000	0.39	U
87-68-3	Hexachlorobutadiene	0.040000	0.43	U
135-98-8	sec-Butylbenzene	0.052000	0.29	U
99-87-6	4-Isopropyltoluene	0.062000	0.33	U
104-51-8	n-Butylbenzene	0.056000	0.31	U

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07487.D
Acq On : 10 Mar 2011 4:58 pm
Operator : KRL
Sample : sb25245-06 @ b1-ia1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 11 15:01:00 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.134	128	449145	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.338	114	2302379	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.878	54	302754	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.103	95	1032381	9.79	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 97.90%#			
Target Compounds						Qvalue
3) DICHLORODIFLUOROMETHANE	5.178	85	313855	0.48	PPBv	# 100
4) CHLOROMETHANE	5.360	50	166779	0.49	PPBv	# 100
11) ACETONE	6.832	58	500193m	3.63	PPBv	
12) TRICHLOROFLUOROMETHANE	7.038	101	239309	0.27	PPBv	# 100
13) ETHANOL	6.316	45	877035	10.88	PPBv	# 100
17) METHYLENE CHLORIDE	7.820	84	206735	0.82	PPBv	# 100
18) FREON 113	8.089	101	47167	0.09	PPBv	# 100
24) IPA	7.069	45	598189	1.40	PPBv	# 100
25) 2-BUTANONE (MEK)	9.448	72	82140	0.85	PPBv	# 100
27) HEXANE	10.180	57	68438	0.21	PPBv	# 100
28) ETHYL ACETATE	10.166	61	66671	1.02	PPBv	# 100
29) CHLOROFORM	10.279	83	9779m	0.02	PPBv	
31) 1,2-DICHLOROETHANE	11.107	62	18357	0.08	PPBv	# 100
33) BENZENE	11.946	78	165482	0.24	PPBv	100
34) CARBON TETRACHLORIDE	12.123	119	39357	0.08	PPBv	# 100
35] CARBON TETRACHLORIDE (...	12.124	119	46987	0.08	PPBv	# 100
36) CYCLOHEXANE	12.256	56	15587m	0.05	PPBv	
40) TRICHLOROETHENE	13.190	95	8527m	0.03	PPBv	
41] TRICHLOROETHENE (SIM)	13.190	95	11781	0.02	PPBv	# 100
43) HEPTANE	13.533	57	19534m	0.09	PPBv	
44) MIBK	14.291	43	35810	0.07	PPBv	# 100
48) TOLUENE	15.500	91	878851	1.05	PPBv	# 100
52) TETRACHLOROETHENE	17.008	166	70340	0.16	PPBv	# 100
53] TETRACHLOROETHENE (SIM)	17.010	166	87196	0.18	PPBv	# 100
57) ETHYLBENZENE	18.470	91	251076	0.24	PPBv	# 100
58) M/P-XYLENE	18.715	106	294918	0.57	PPBv	# 100
60) STYRENE	19.253	104	221447	0.37	PPBv	# 100
61) O-XYLENE	19.416	106	107007	0.22	PPBv	# 100
65) 4-ETHYLTOLUENE	21.376	105	55625	0.05	PPBv	# 100
66) 1,3,5-TRIMETHYLBENZENE	21.510	105	45775m	0.04	PPBv	
67) 1,2,4-TRIMETHYLBENZENE	22.173	105	147894	0.16	PPBv	# 100
72) 4-ISOPROPYLTOLUENE	22.853	119	39929	0.03	PPBv	# 100
74) N-BUTYLBENZENE	23.482	91	25418	0.02	PPBv	# 100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07487.D
Acq On : 10 Mar 2011 4:58 pm
Operator : KRL
Sample : sb25245-06 @ b1-ia1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 11 15:01:00 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

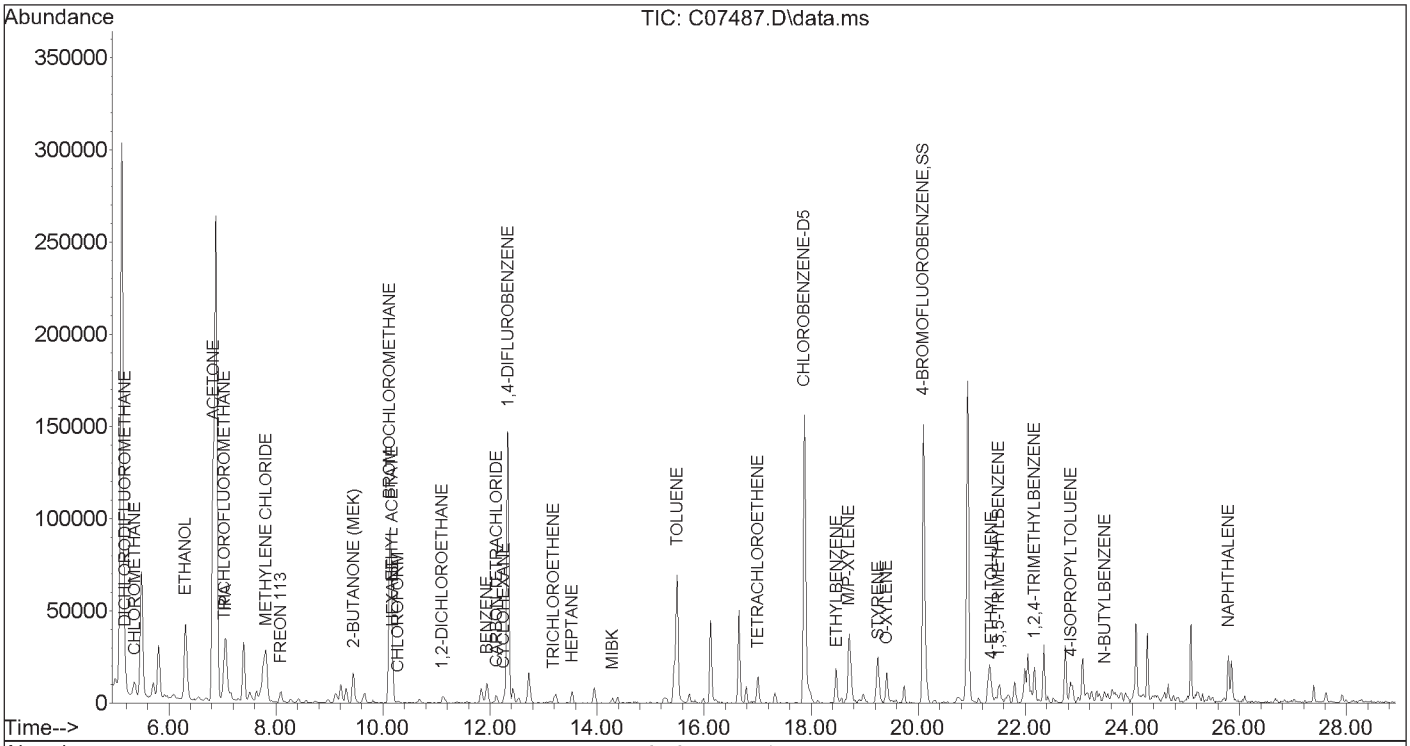
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NAPHTHALENE	25.797	128	332208	0.31	PPBv	100

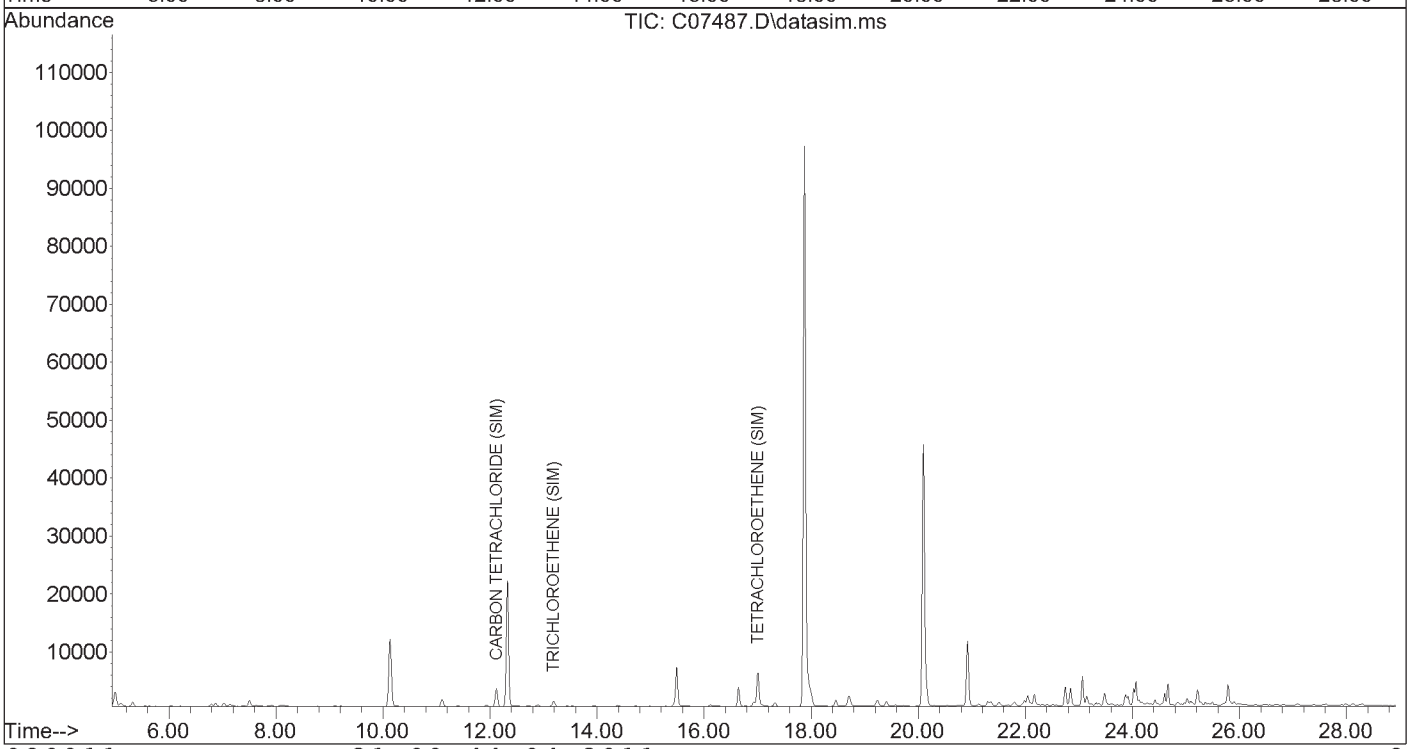
(#) = qualifier out of range (m) = manual integration (+) = signals summed

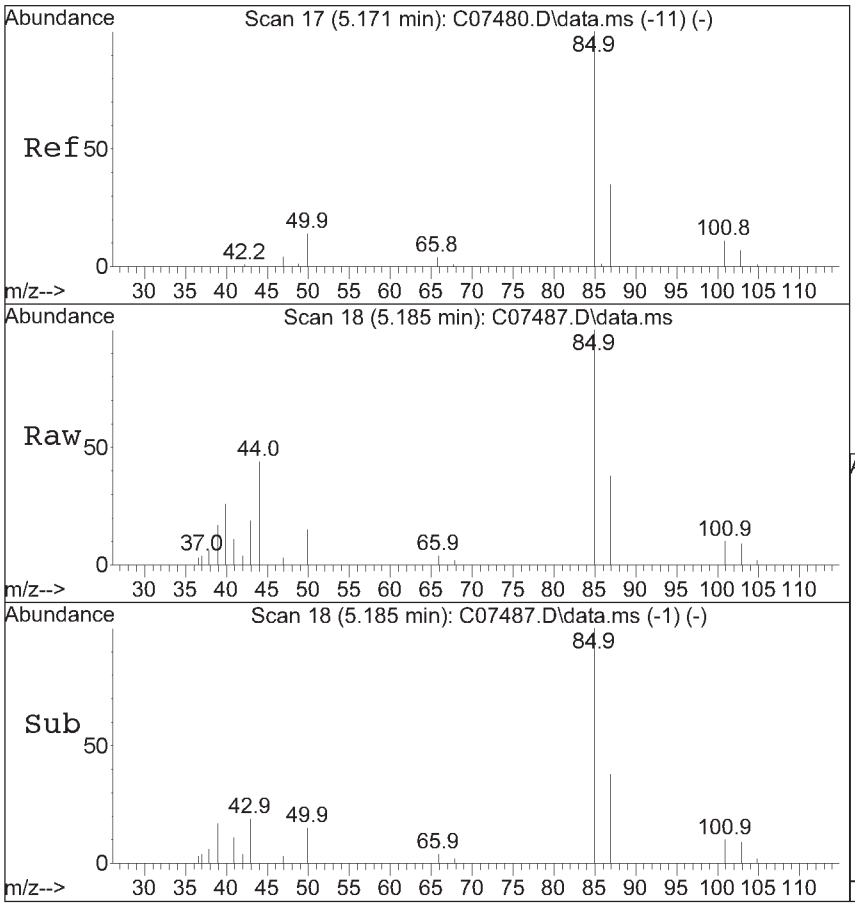
Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07487.D
Acq On : 10 Mar 2011 4:58 pm
Operator : KRL
Sample : sb25245-06 @ b1-ia1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 11 15:01:00 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration



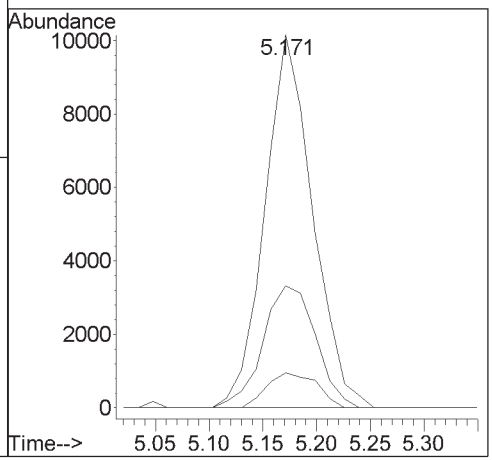


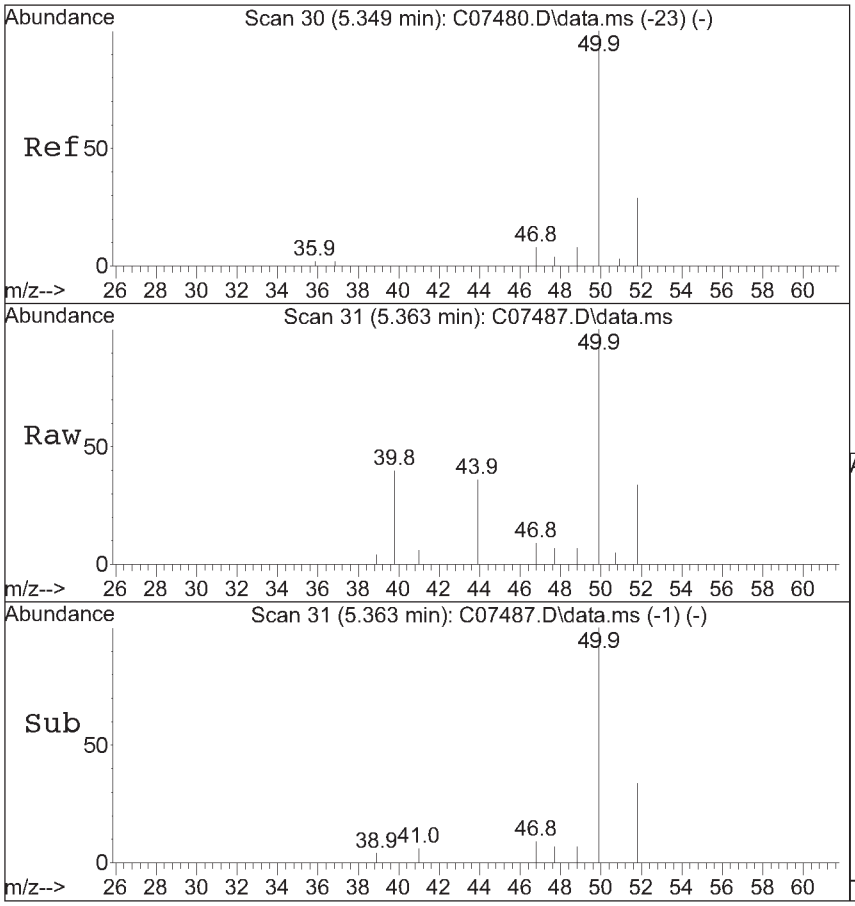


#3
DICHLORODIFLUOROMETHANE
Concen: 0.48 PPBv
RT: 5.178 min Scan# 18
Delta R.T. 0.004 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 85 Resp: 313855

Ion	Ratio	Lower	Upper
85	100		
87	36.2	0.0	0.0#
101	9.9	0.0	0.0#

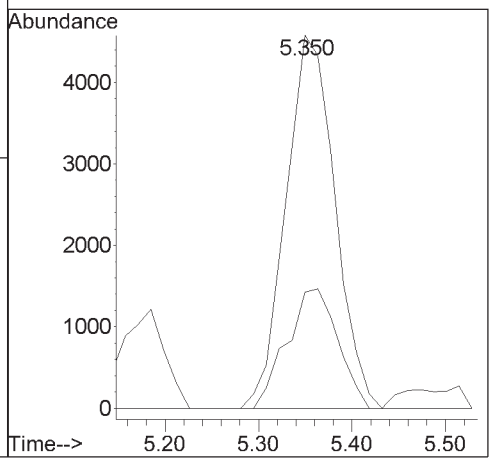


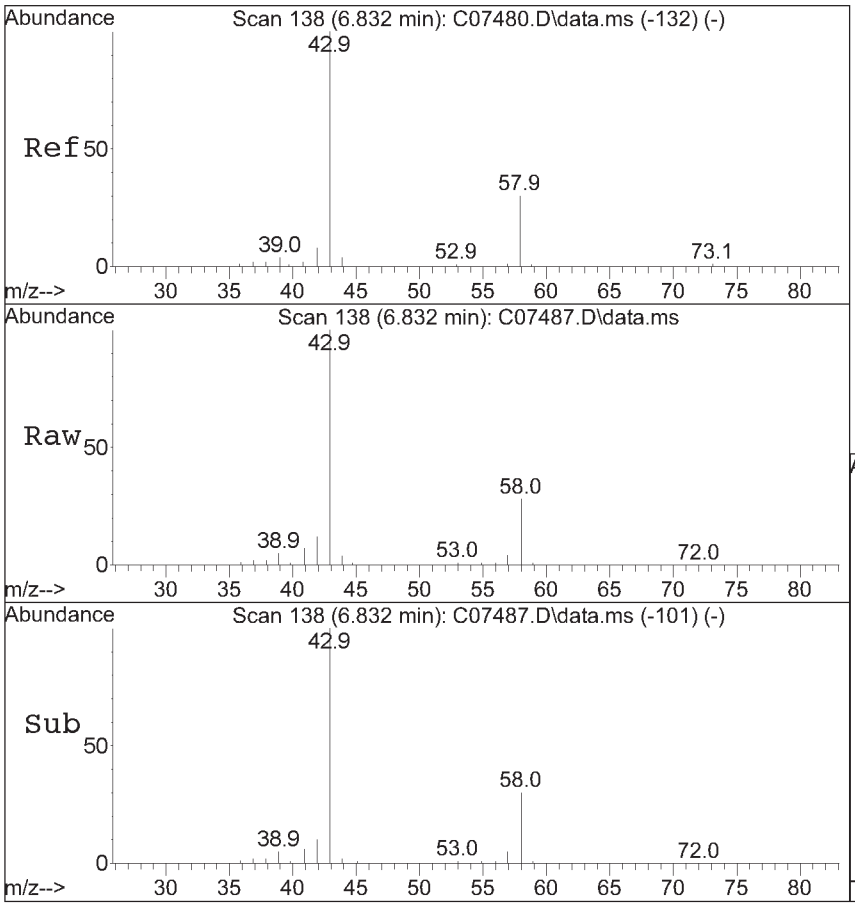


#4
CHLOROMETHANE
Concen: 0.49 PPBv
RT: 5.360 min Scan# 31
Delta R.T. 0.003 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 50 Resp: 166779

Ion	Ratio	Lower	Upper
50	100		
52	33.3	0.0	0.0#

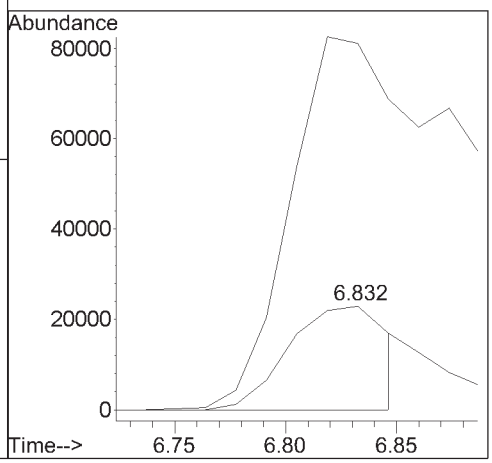


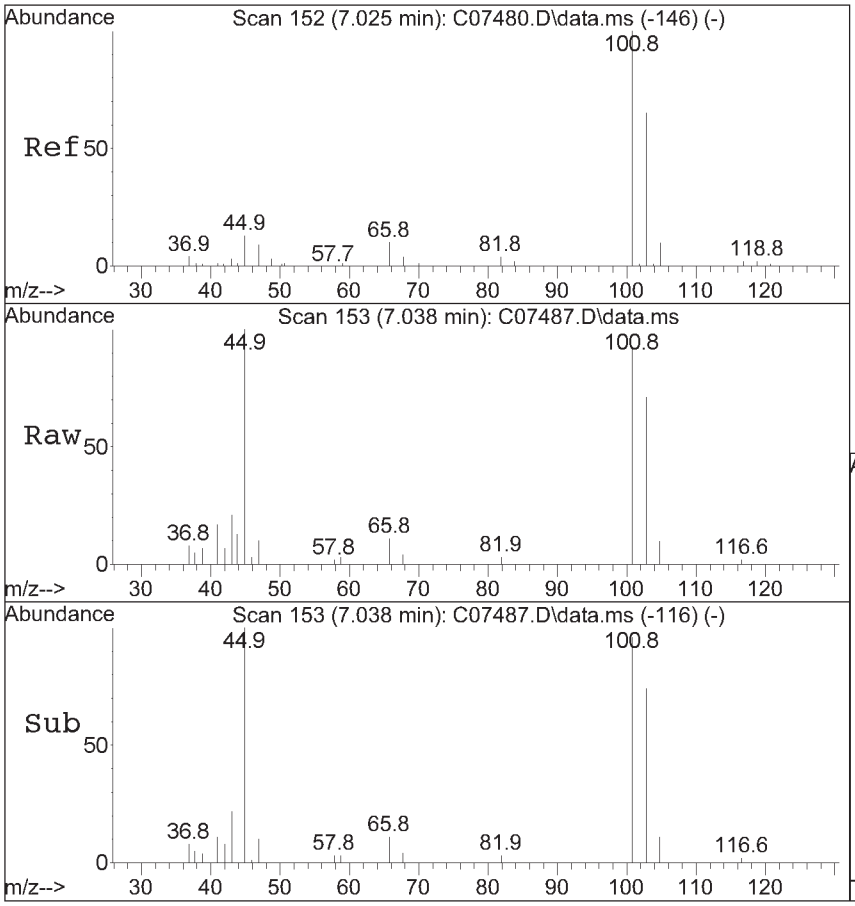


#11
ACETONE
Concen: 3.63 PPBv m
RT: 6.832 min Scan# 138
Delta R.T. 0.002 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 58 Resp: 500193

Ion	Ratio	Lower	Upper
58	100		
43	907.1	0.0	0.0#

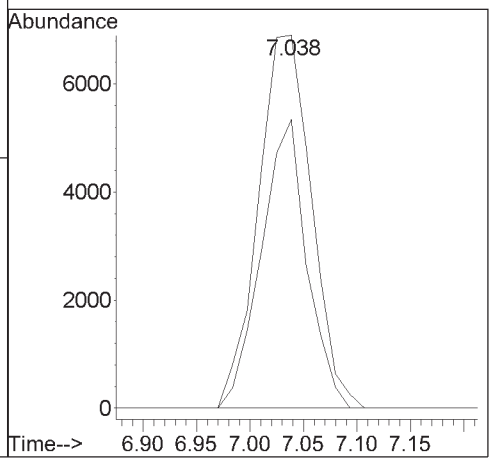


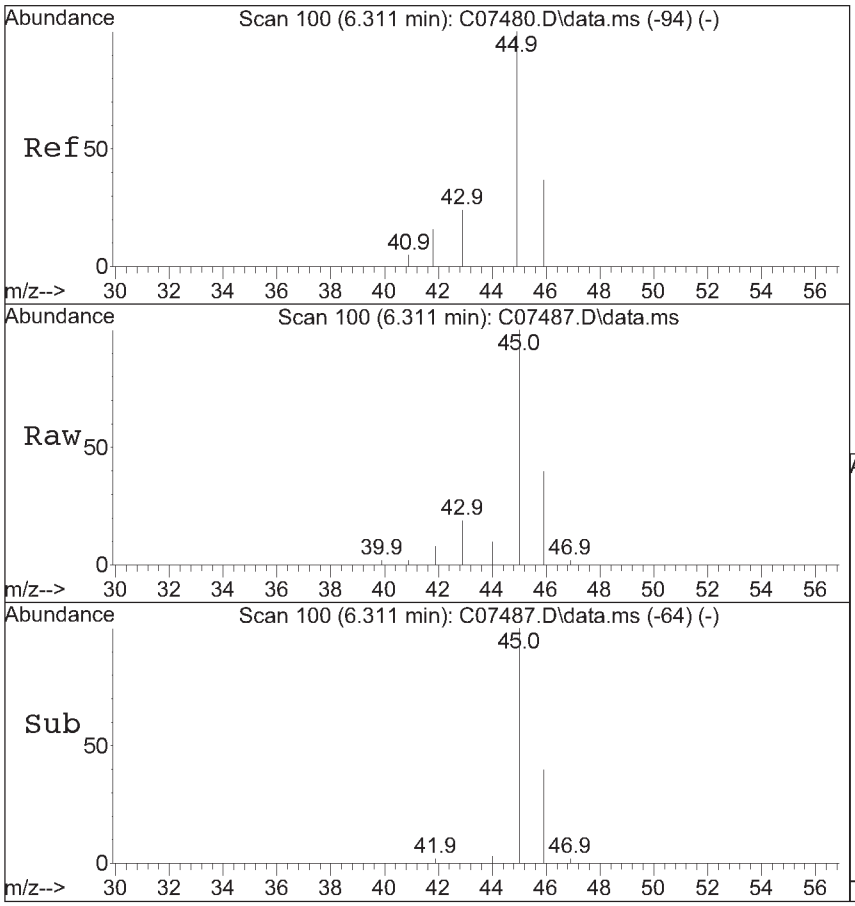


#12
TRICHLOROFLUOROMETHANE
Concen: 0.27 PPBv
RT: 7.038 min Scan# 153
Delta R.T. 0.006 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:101 Resp: 239309

Ion	Ratio	Lower	Upper
101	100		
103	66.3	0.0	0.0#

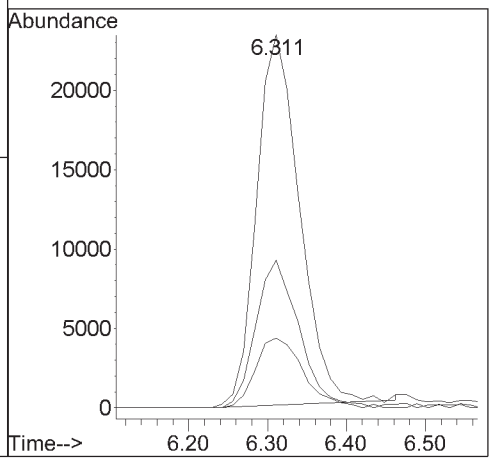


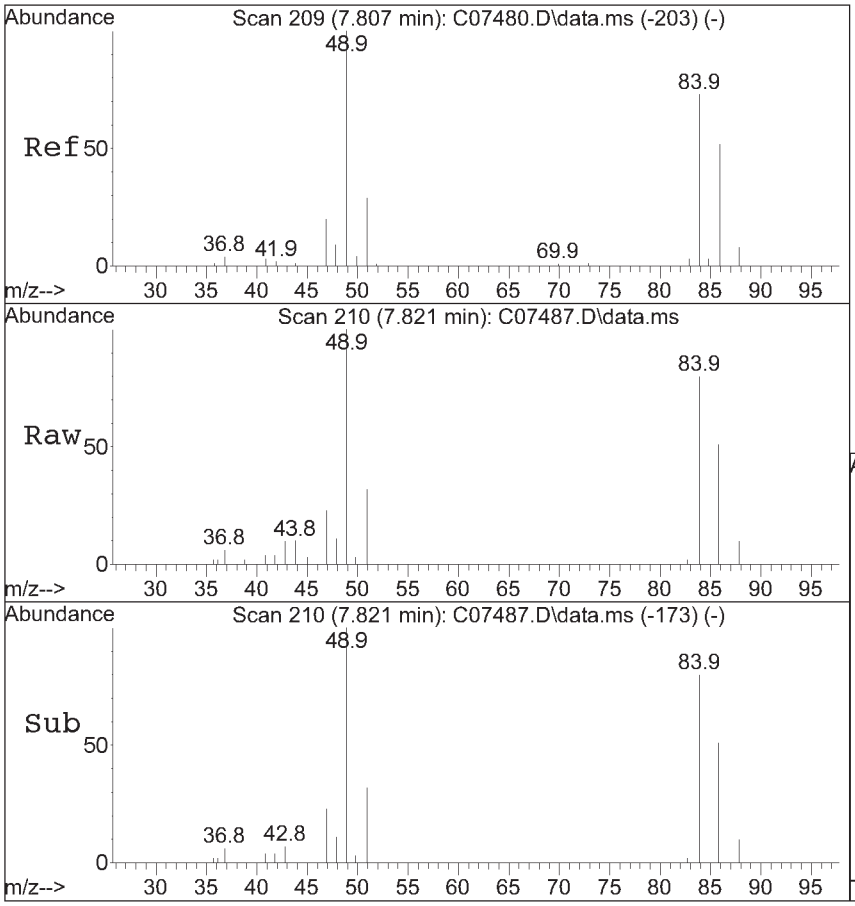


#13
ETHANOL
Concen: 10.88 PPBv
RT: 6.316 min Scan# 100
Delta R.T. -0.001 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 45 Resp: 877035

Ion	Ratio	Lower	Upper
45	100		
46	40.0	0.0	0.0#
43	0.0	0.0	0.0

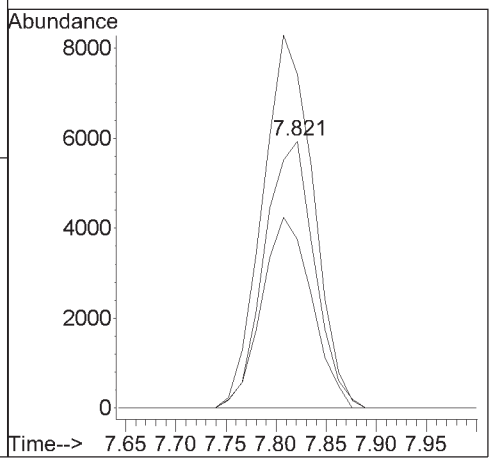


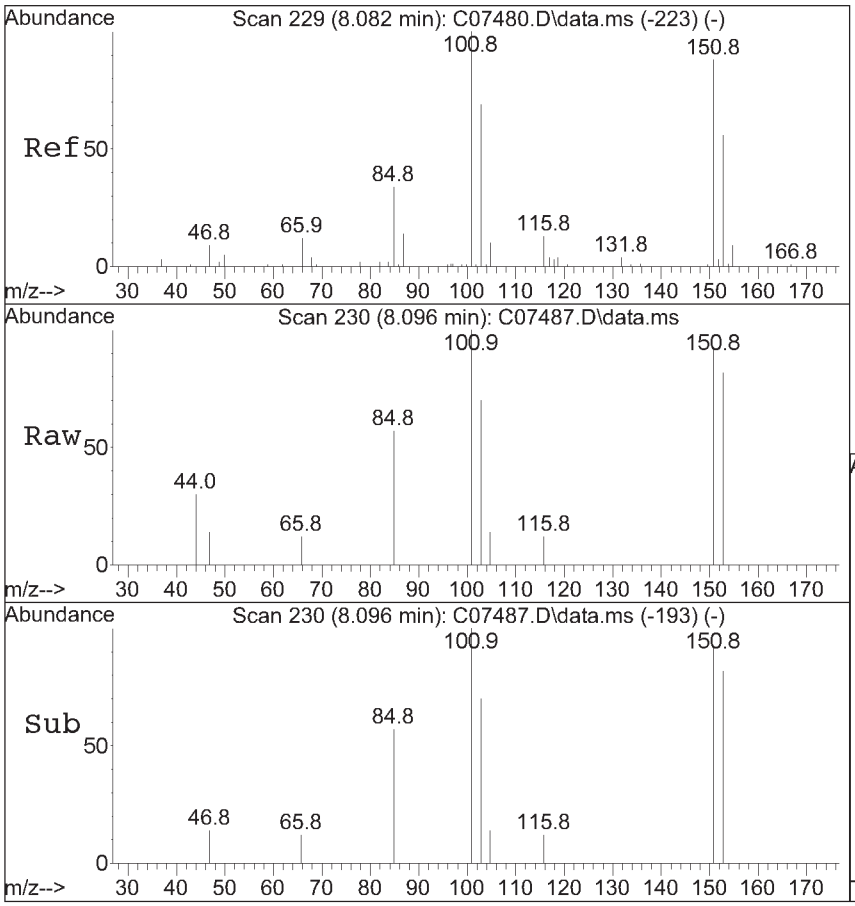


#17
METHYLENE CHLORIDE
Concen: 0.82 PPBv
RT: 7.820 min Scan# 210
Delta R.T. 0.008 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 84 Resp: 206735

Ion	Ratio	Lower	Upper
84	100		
49	141.5	0.0	0.0#
86	71.7	0.0	0.0#

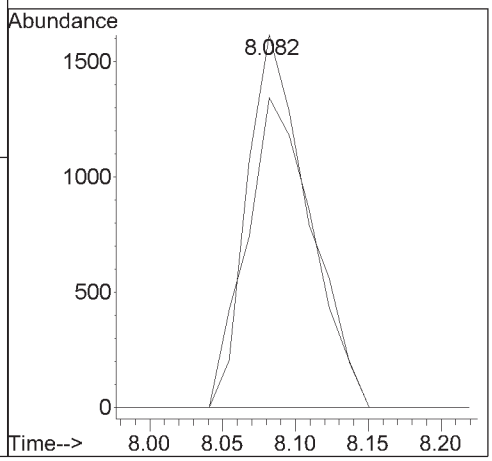


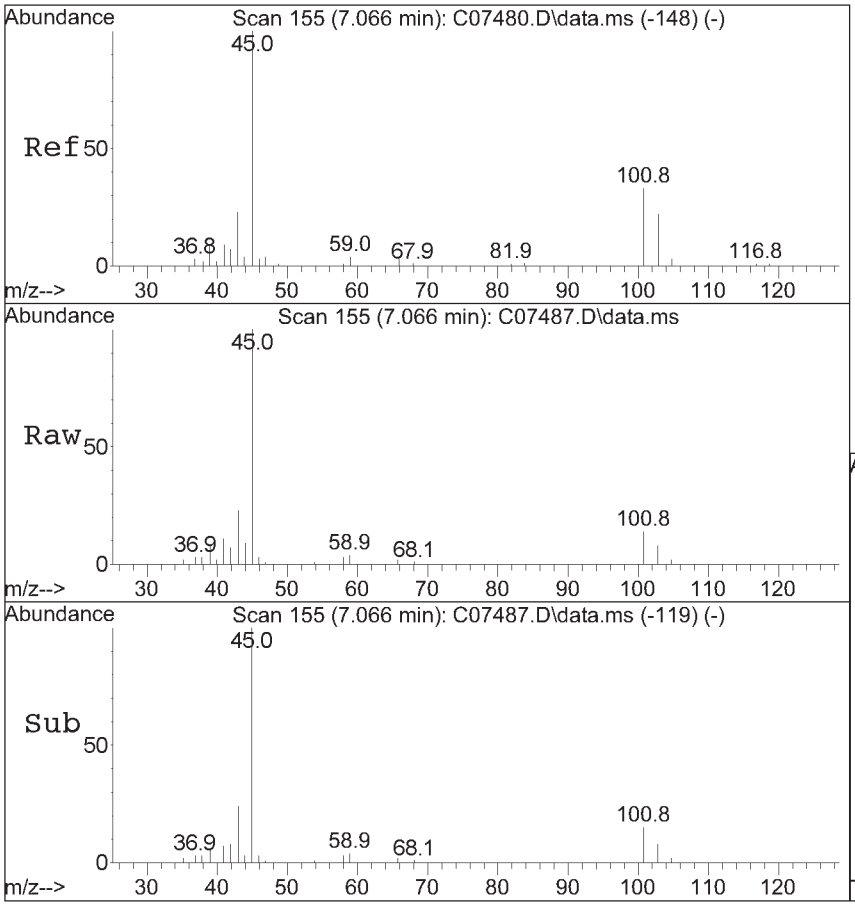


#18
FREON 113
Concen: 0.09 PPBv
RT: 8.089 min Scan# 230
Delta R.T. 0.001 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:101 Resp: 47167

Ion	Ratio	Lower	Upper
101	100		
151	90.5	0.0	0.0#

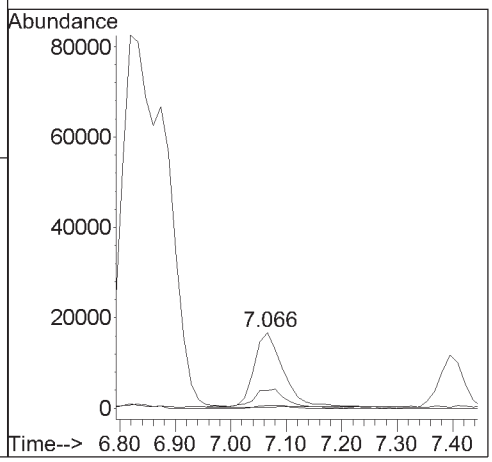


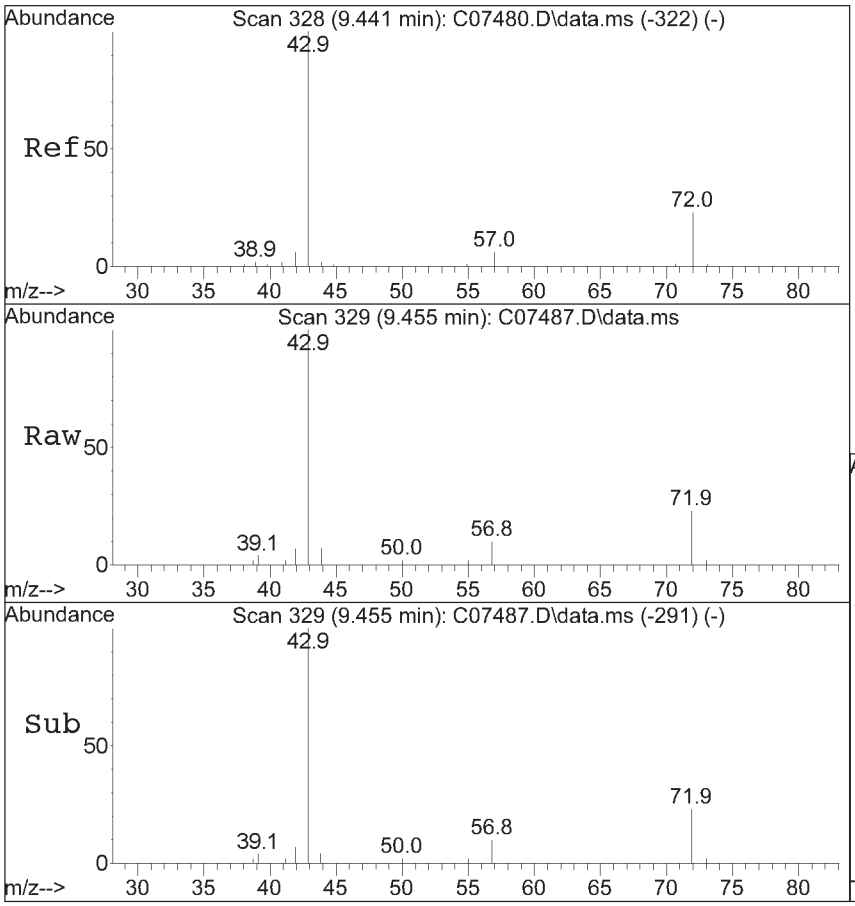


#24
IPA
Concen: 1.40 PPBv
RT: 7.069 min Scan# 155
Delta R.T. 0.003 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 45 Resp: 598189

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	0.0
59	4.2	0.0	0.0#

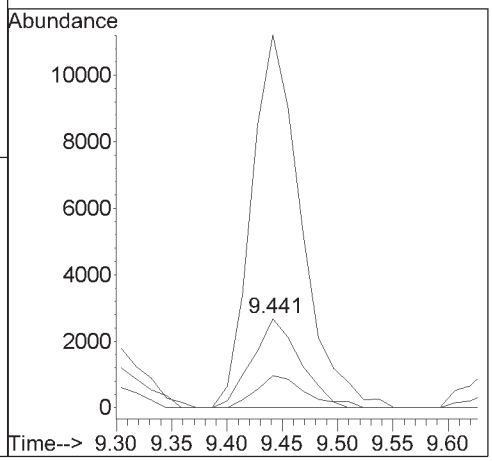


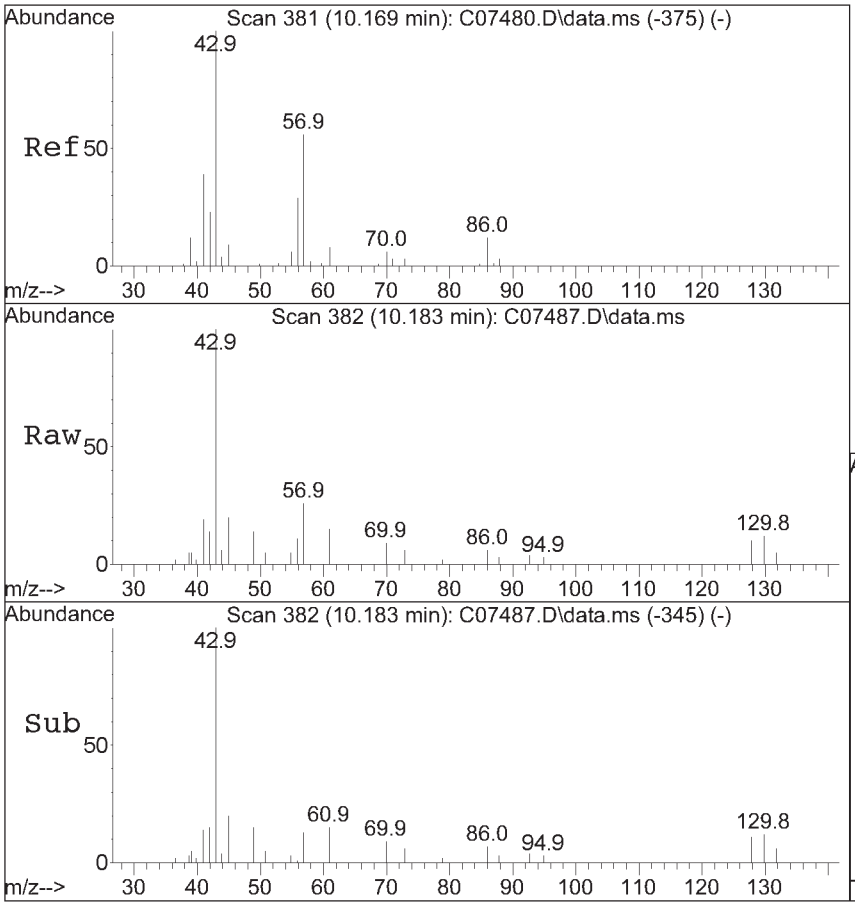


#25
2-BUTANONE (MEK)
Concen: 0.85 PPBv
RT: 9.448 min Scan# 329
Delta R.T. 0.008 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 72 Resp: 82140

Ion	Ratio	Lower	Upper
72	100		
57	35.6	0.0	0.0#
43	427.2	0.0	0.0#

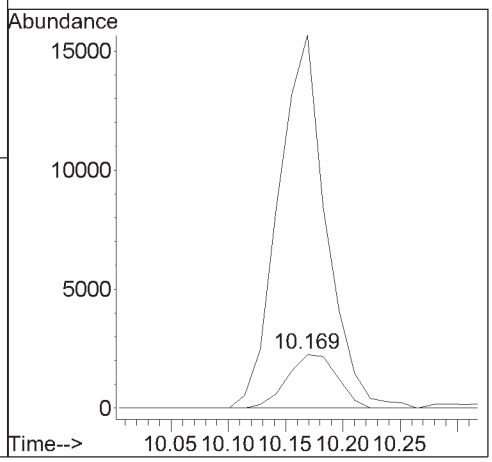


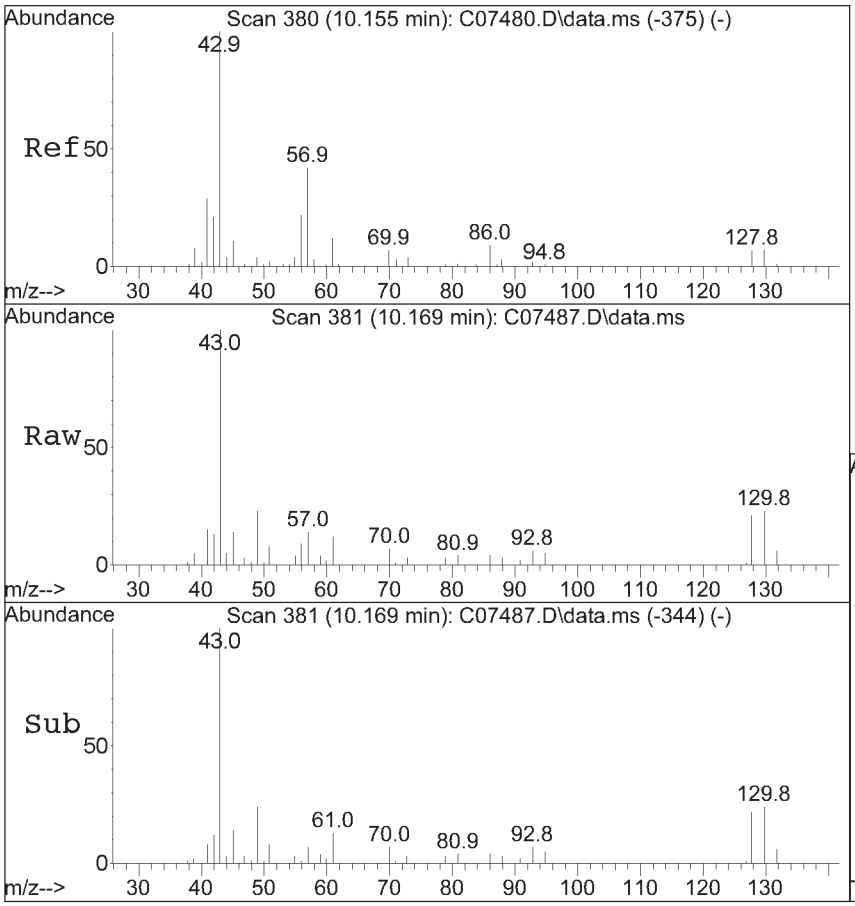


#27
HEXANE
Concen: 0.21 PPBv
RT: 10.180 min Scan# 382
Delta R.T. 0.006 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 57 Resp: 68438

Ion	Ratio	Lower	Upper
57	100		
43	660.8	0.0	0.0#

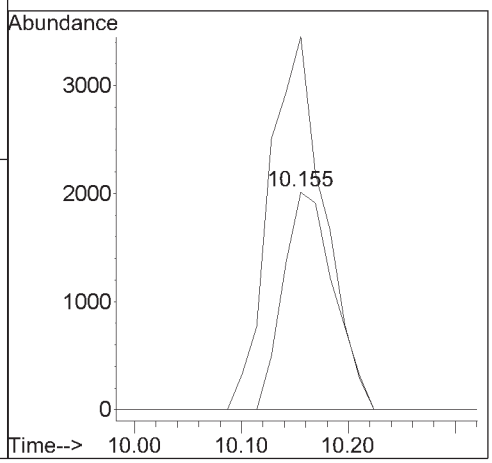


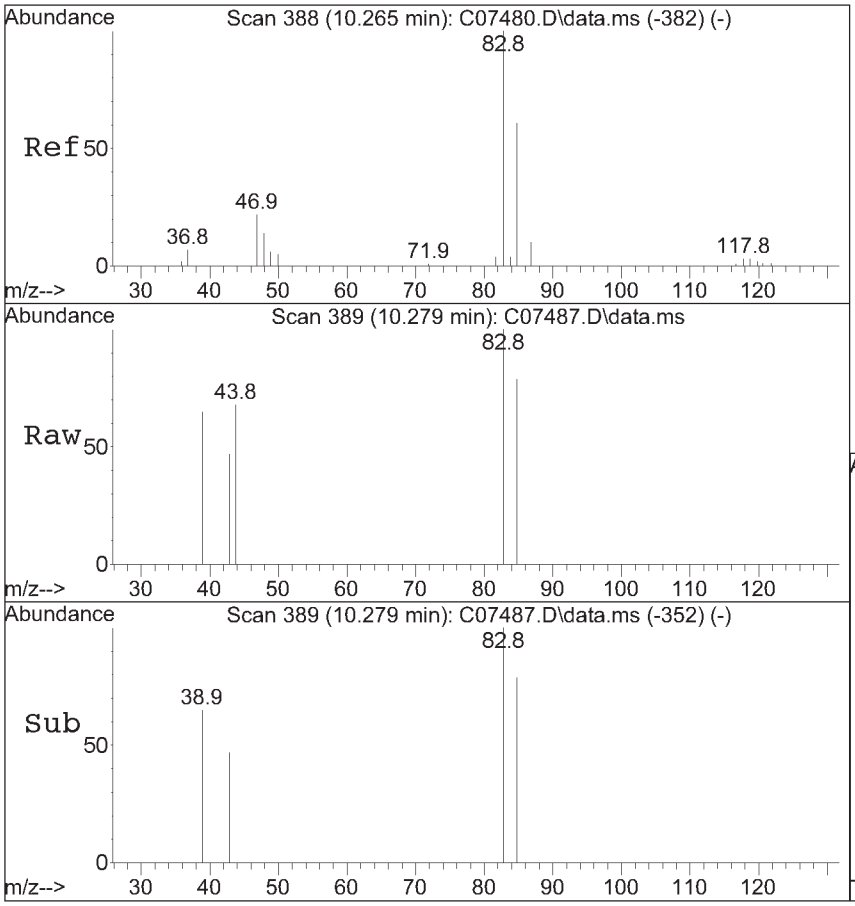


#28
ETHYL ACETATE
Concen: 1.02 PPBv
RT: 10.166 min Scan# 381
Delta R.T. 0.006 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 61 Resp: 66671

Ion	Ratio	Lower	Upper
61	100		
45	184.3	0.0	0.0#

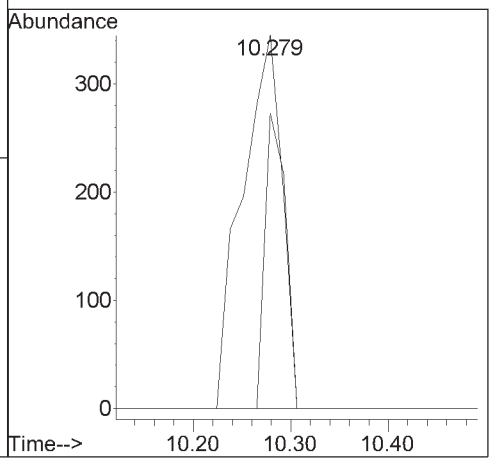


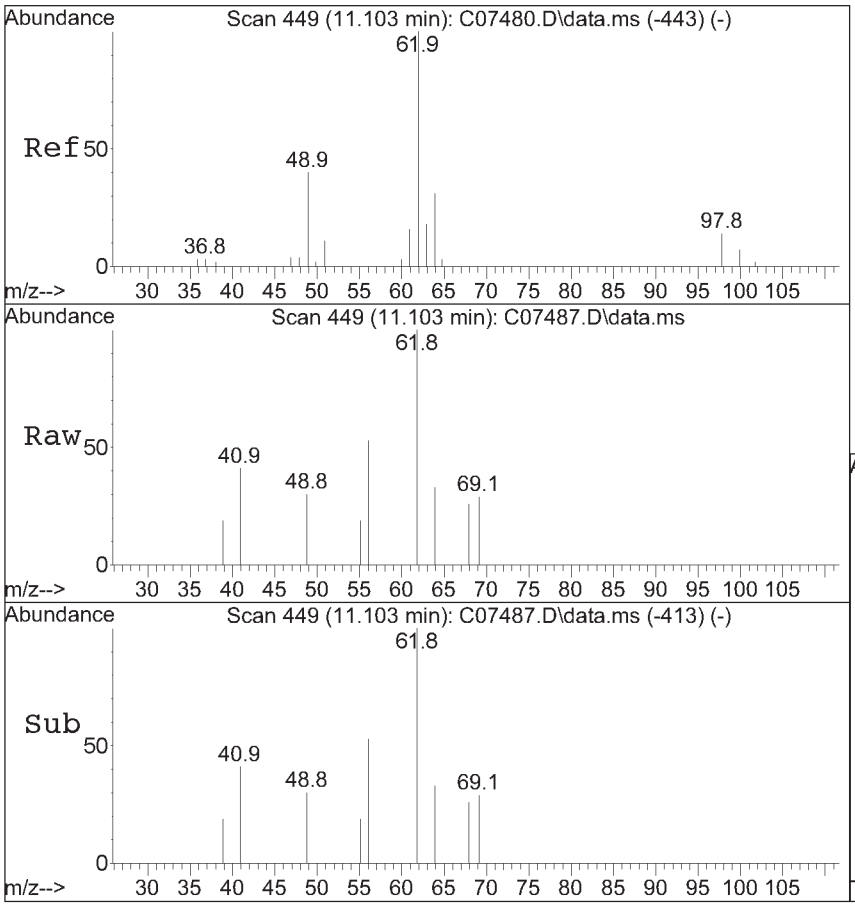


#29
CHLOROFORM
Concen: 0.02 PPBv m
RT: 10.279 min Scan# 389
Delta R.T. 0.009 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 83 Resp: 9779

Ion	Ratio	Lower	Upper
83	100		
85	0.0	0.0	0.0

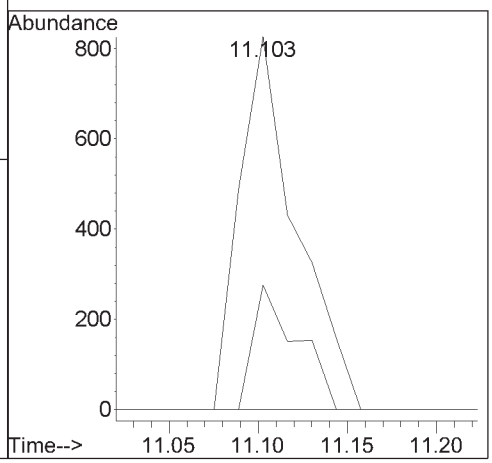


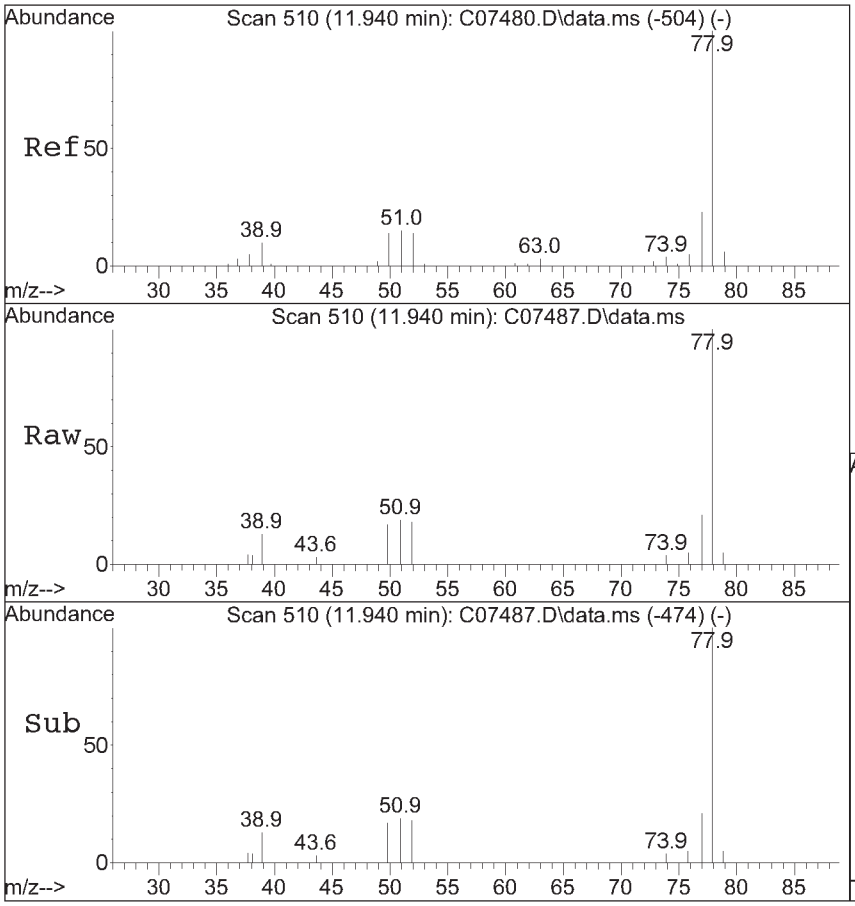


#31
1,2-DICHLOROETHANE
Concen: 0.08 PPBv
RT: 11.107 min Scan# 449
Delta R.T. -0.001 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 62 Resp: 18357

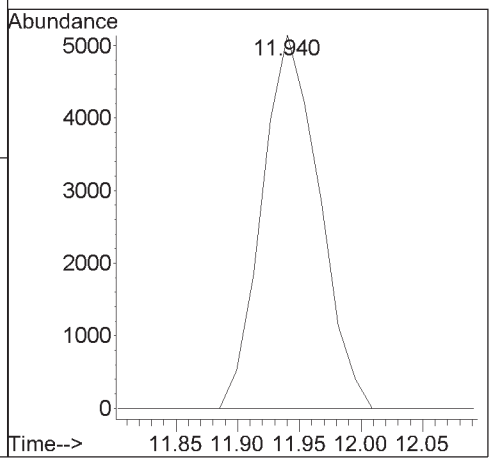
Ion	Ratio	Lower	Upper
62	100		
64	0.0	0.0	0.0
98	0.0	0.0	0.0

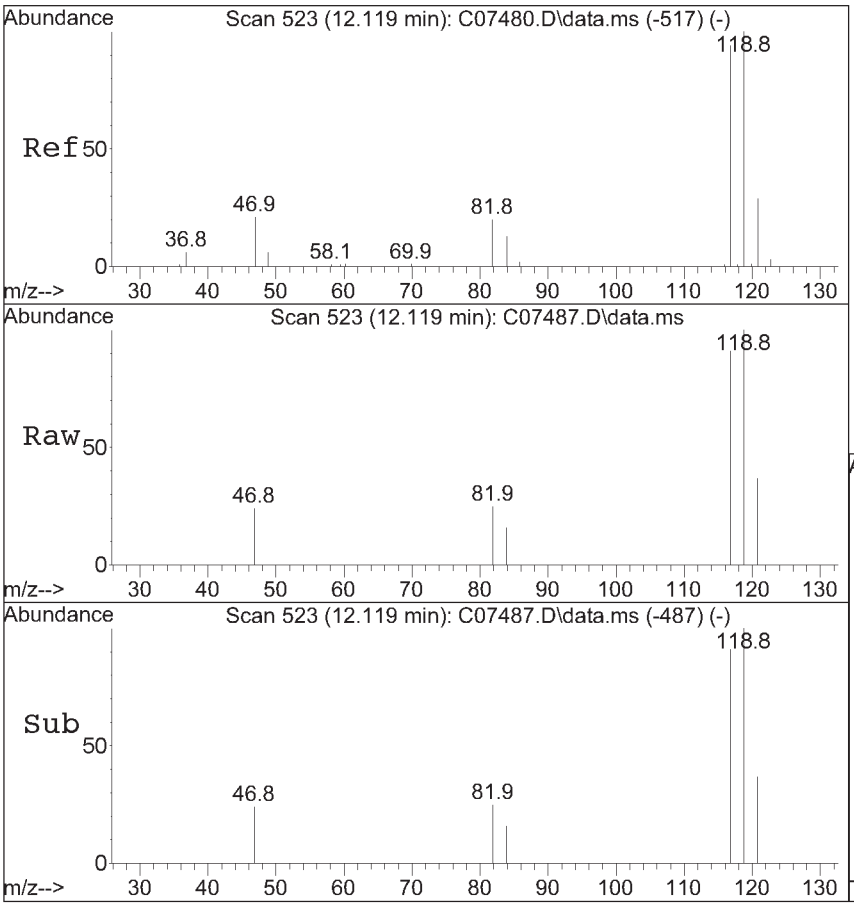




#33
BENZENE
Concen: 0.24 PPBv
RT: 11.946 min Scan# 510
Delta R.T. 0.000 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 78 Resp: 165482

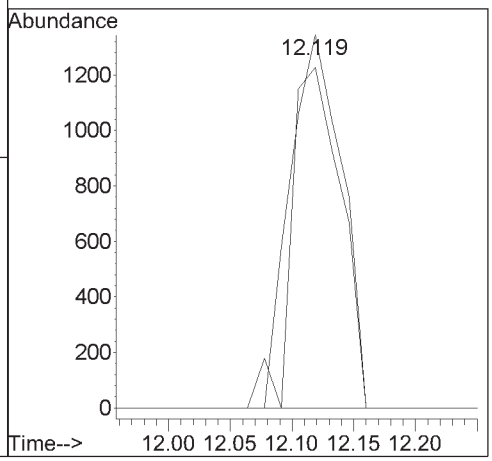


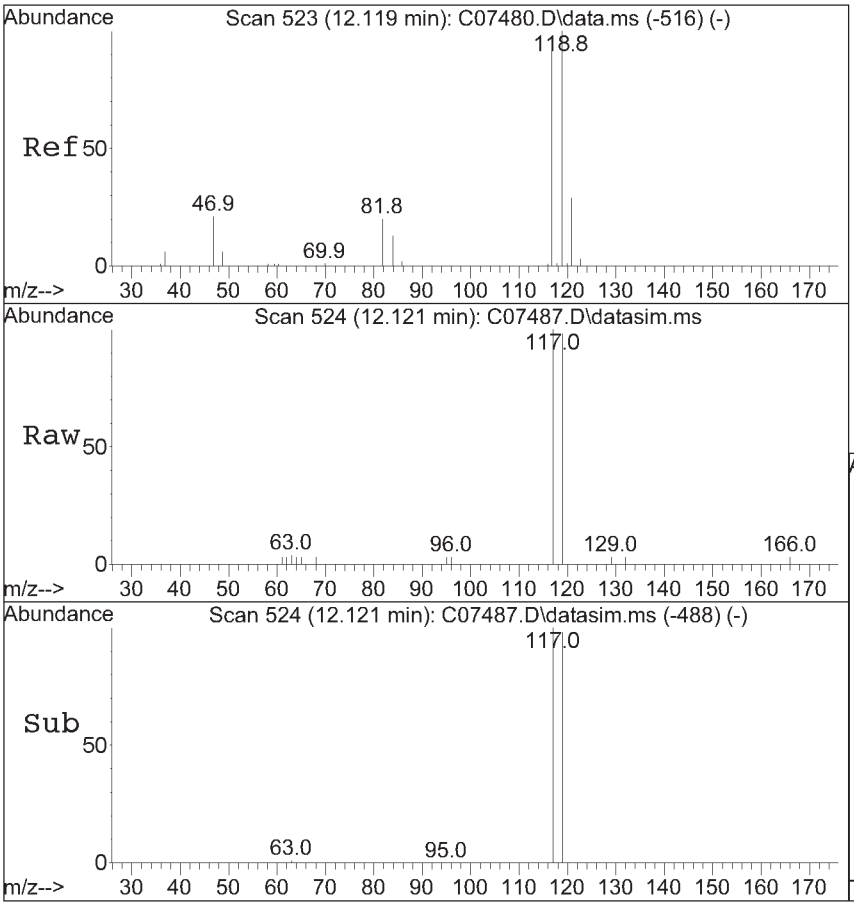


#34
CARBON TETRACHLORIDE
Concen: 0.08 PPBv
RT: 12.123 min Scan# 523
Delta R.T. 0.001 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:119 Resp: 39357

Ion	Ratio	Lower	Upper
119	100		
117	86.8	0.0	0.0#

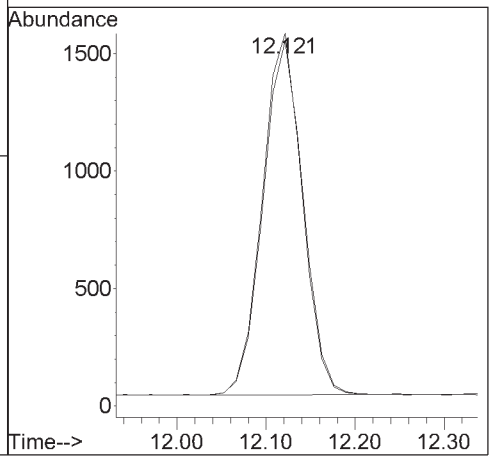


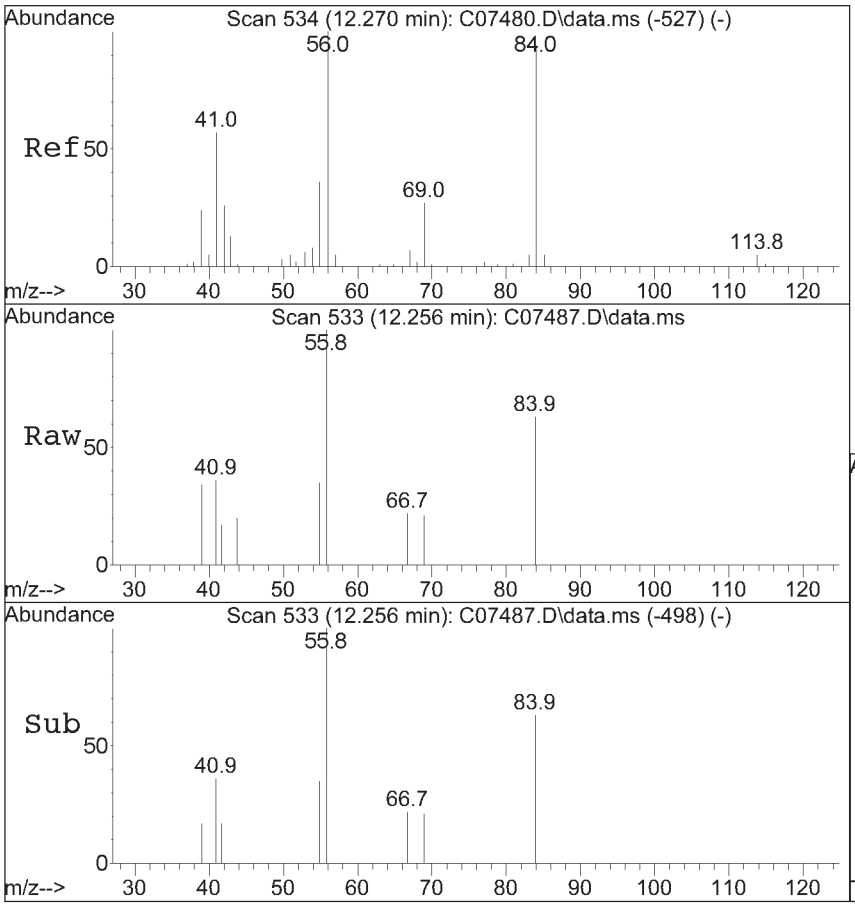


#35
CARBON TETRACHLORIDE (SIM)
Concen: 0.08 PPBv
RT: 12.124 min Scan# 524
Delta R.T. 0.002 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:119 Resp: 46987

Ion	Ratio	Lower	Upper
119	100		
117	101.4	0.0	0.0#

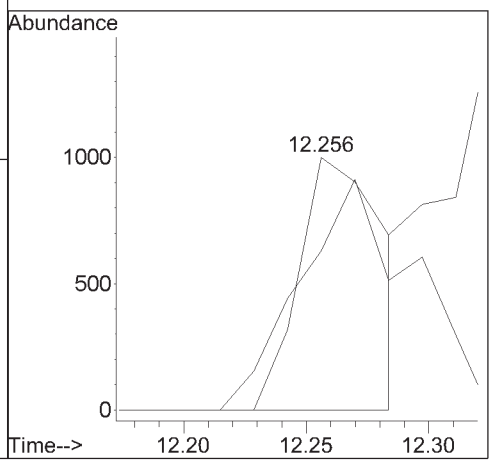


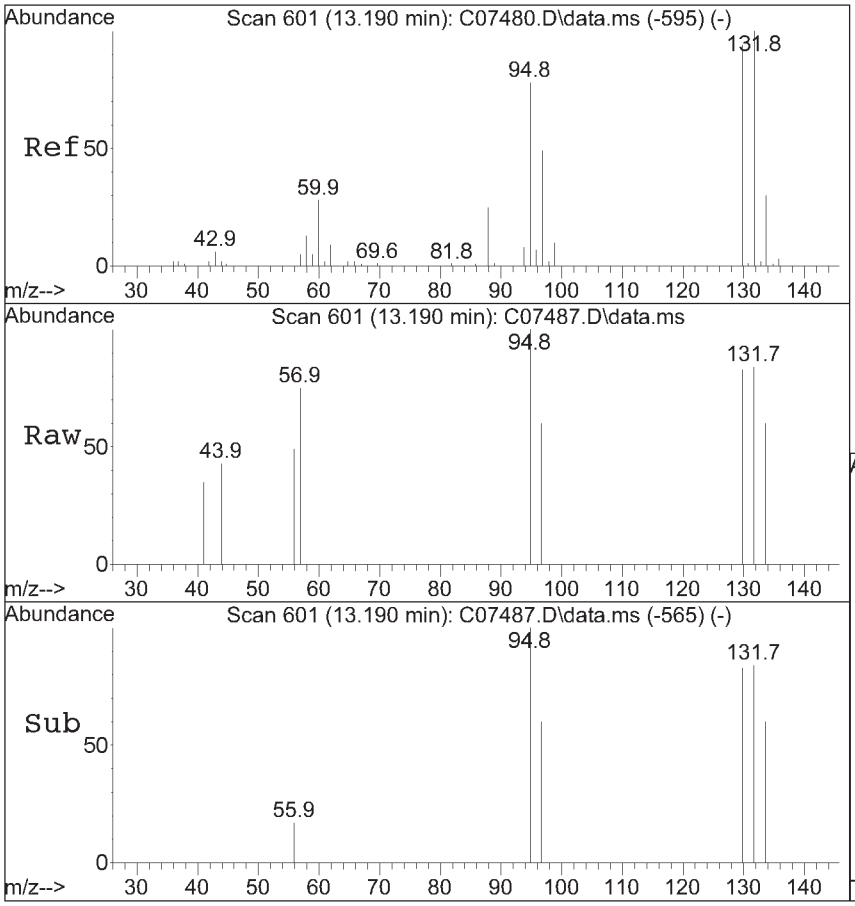


#36
CYCLOHEXANE
Concen: 0.05 PPBv m
RT: 12.256 min Scan# 533
Delta R.T. -0.014 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 56 Resp: 15587

Ion	Ratio	Lower	Upper
56	100		
84	0.0	0.0	0.0

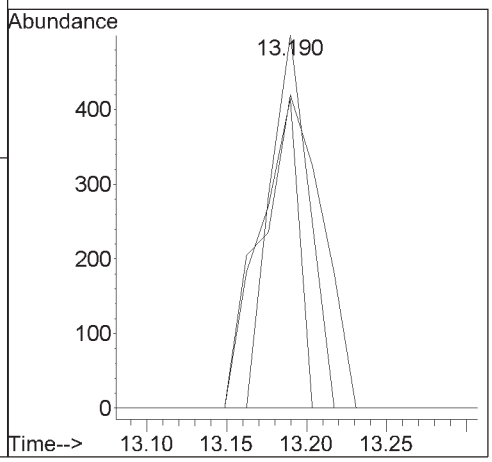


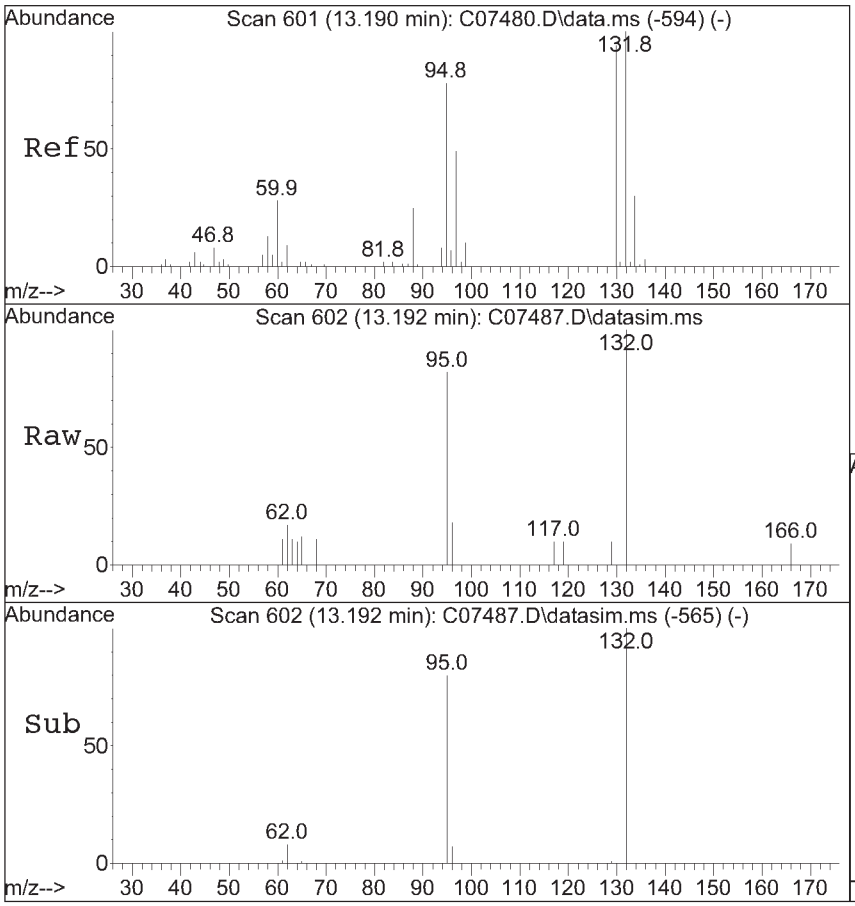


#40
TRICHLOROETHENE
Concen: 0.03 PPBv m
RT: 13.190 min Scan# 601
Delta R.T. -0.001 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 95 Resp: 8527

Ion	Ratio	Lower	Upper
95	100		
132	0.0	0.0	0.0
130	0.0	0.0	0.0

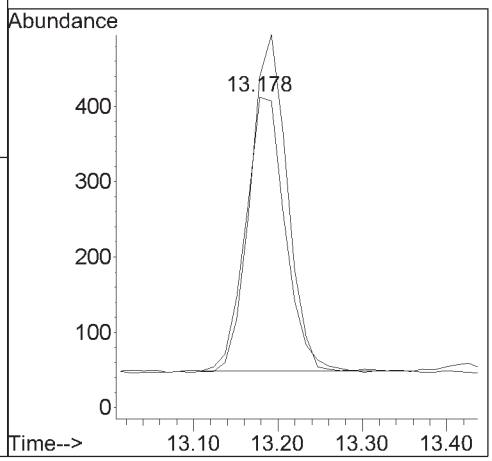


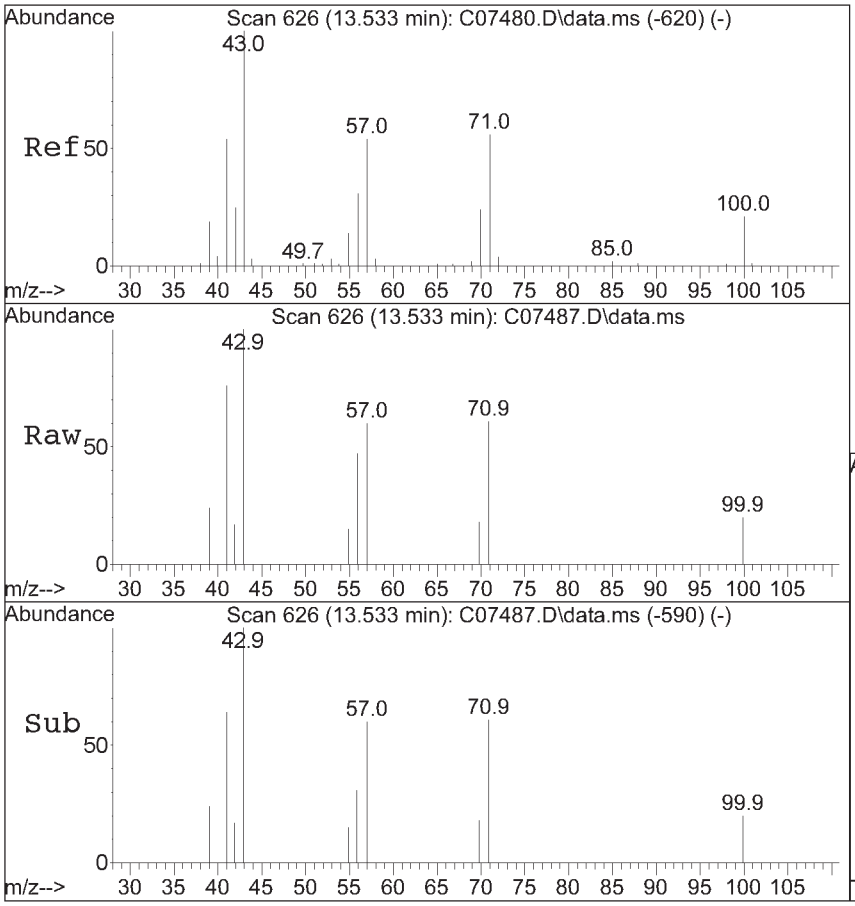


#41
TRICHLOROETHENE (SIM)
Concen: 0.02 PPBv
RT: 13.190 min Scan# 602
Delta R.T. 0.002 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 95 Resp: 11781

Ion	Ratio	Lower	Upper
95	100		
132	114.1	0.0	0.0#

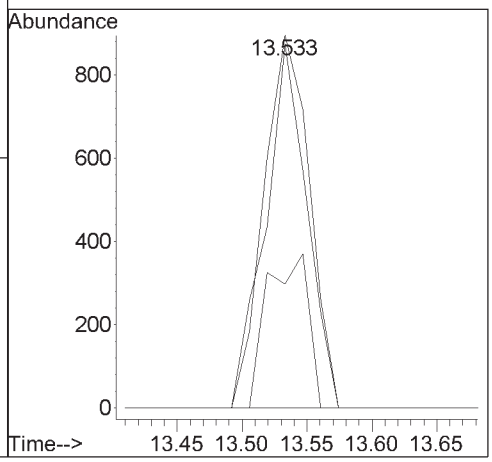


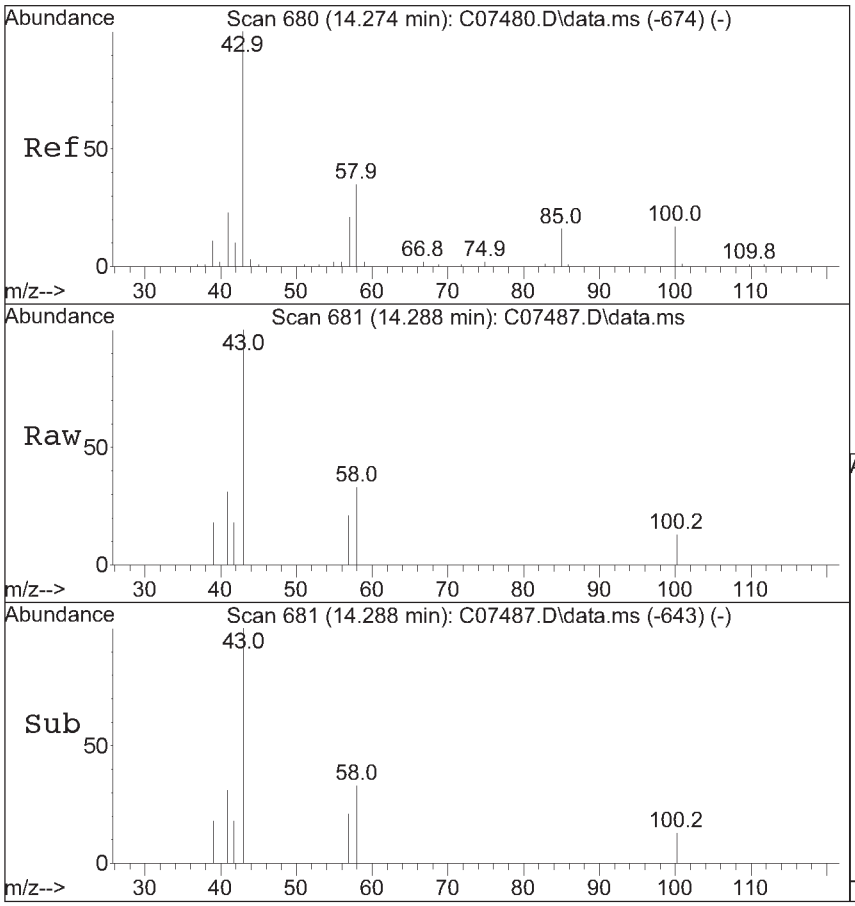


#43
HEPTANE
Concen: 0.09 PPBv m
RT: 13.533 min Scan# 626
Delta R.T. -0.002 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 57 Resp: 19534

Ion	Ratio	Lower	Upper
57	100		
71	0.0	0.0	0.0
100	0.0	0.0	0.0

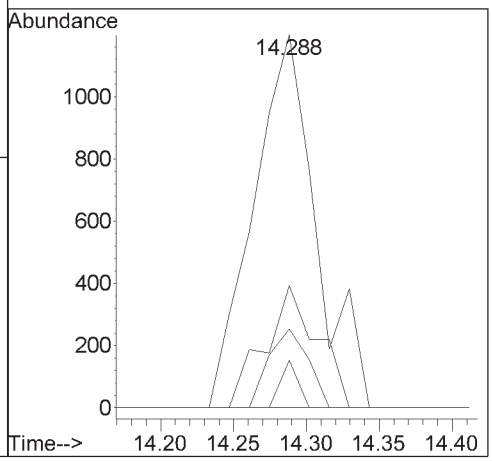


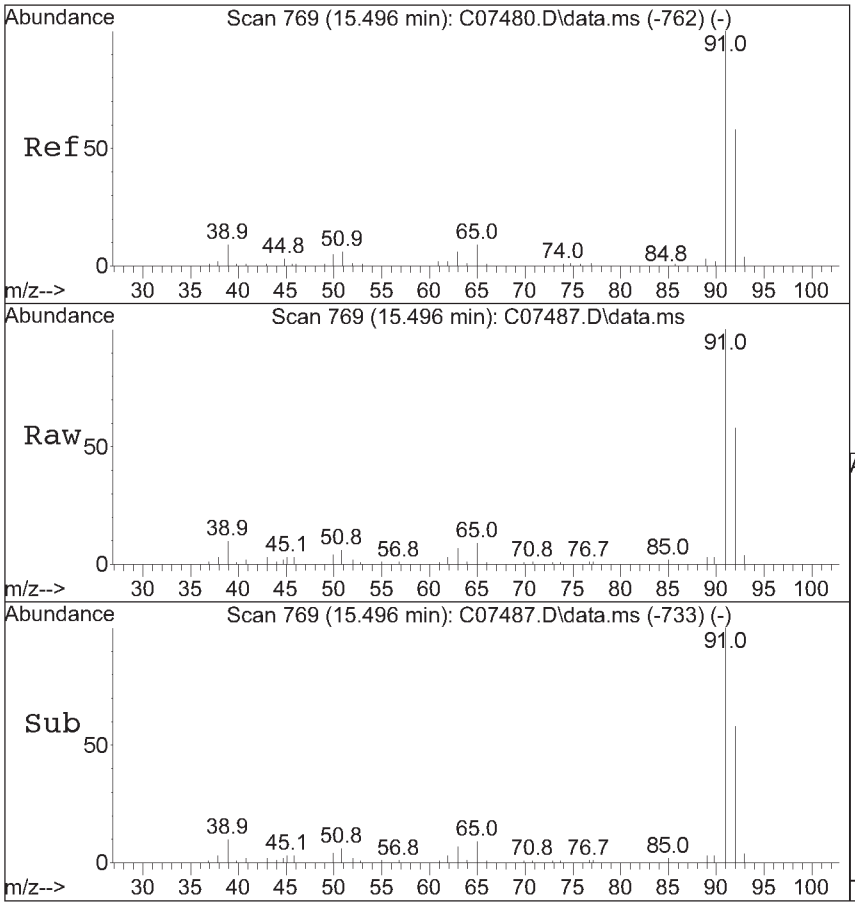


#44
MIBK
Concen: 0.07 PPBv
RT: 14.291 min Scan# 681
Delta R.T. 0.018 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 43 Resp: 35810

Ion	Ratio	Lower	Upper
43	100		
58	0.0	0.0	0.0
57	0.0	0.0	0.0
100	0.0	0.0	0.0

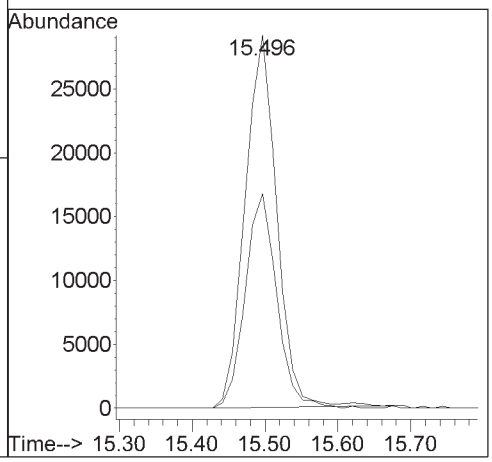


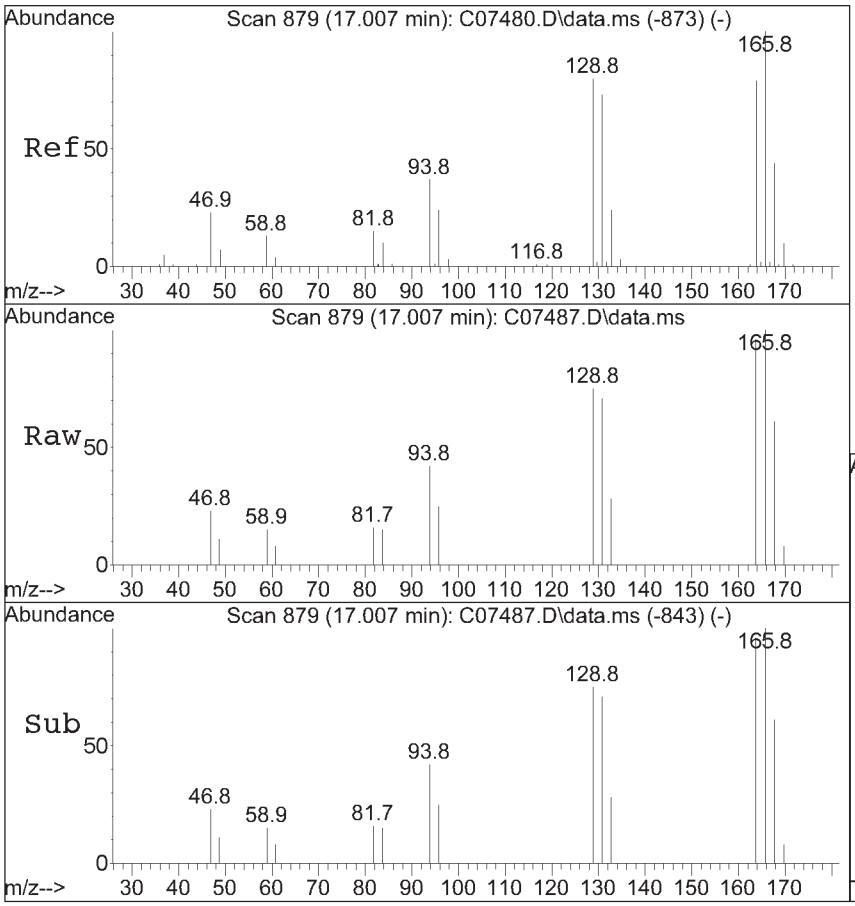


#48
TOLUENE
Concen: 1.05 PPBv
RT: 15.500 min Scan# 769
Delta R.T. 0.004 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 91 Resp: 878851

Ion	Ratio	Lower	Upper
91	100		
92	57.7	0.0	0.0#

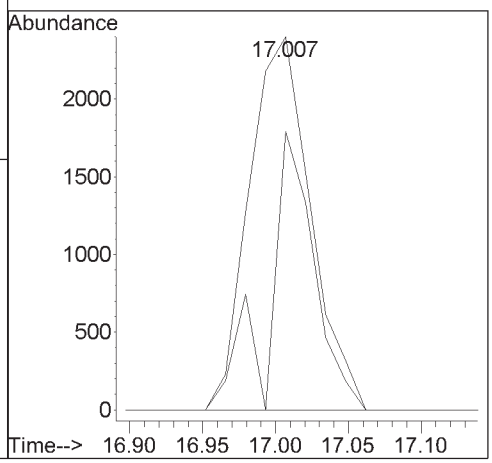


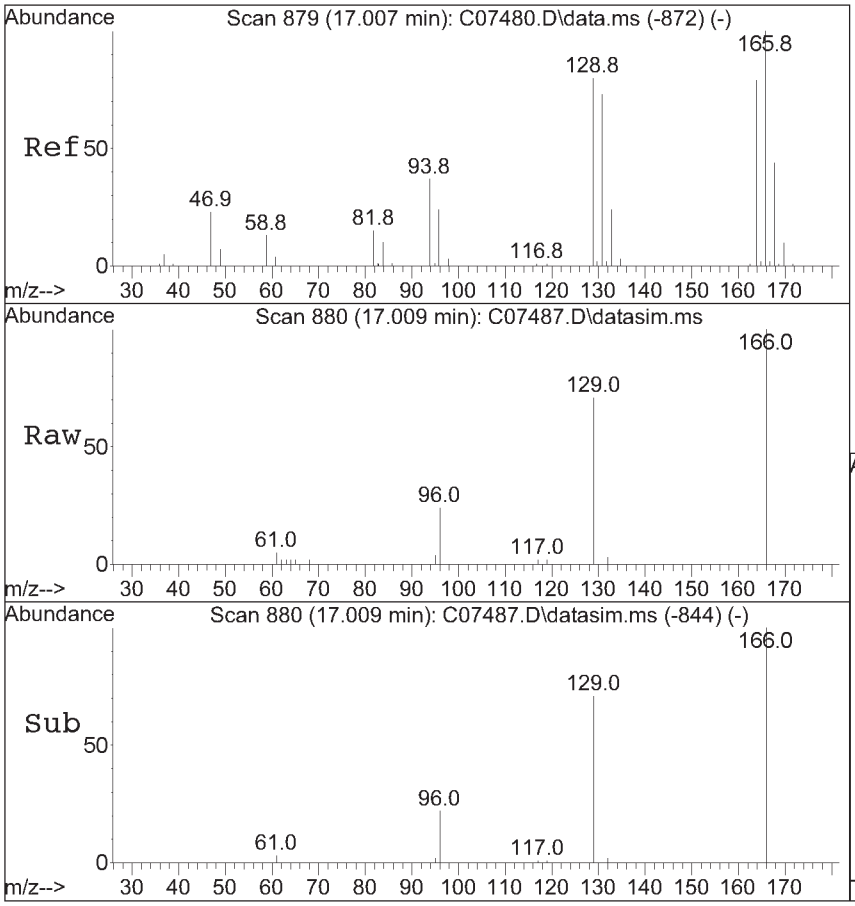


#52
TETRACHLOROETHENE
Concen: 0.16 PPBv
RT: 17.008 min Scan# 879
Delta R.T. -0.000 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:166 Resp: 70340

Ion	Ratio	Lower	Upper
166	100		
129	55.0	0.0	0.0#
138	0.0	0.0	0.0

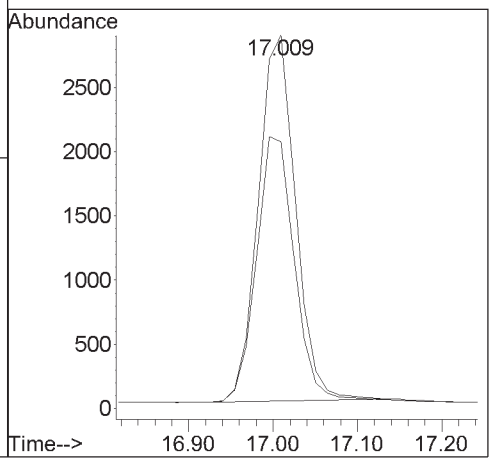


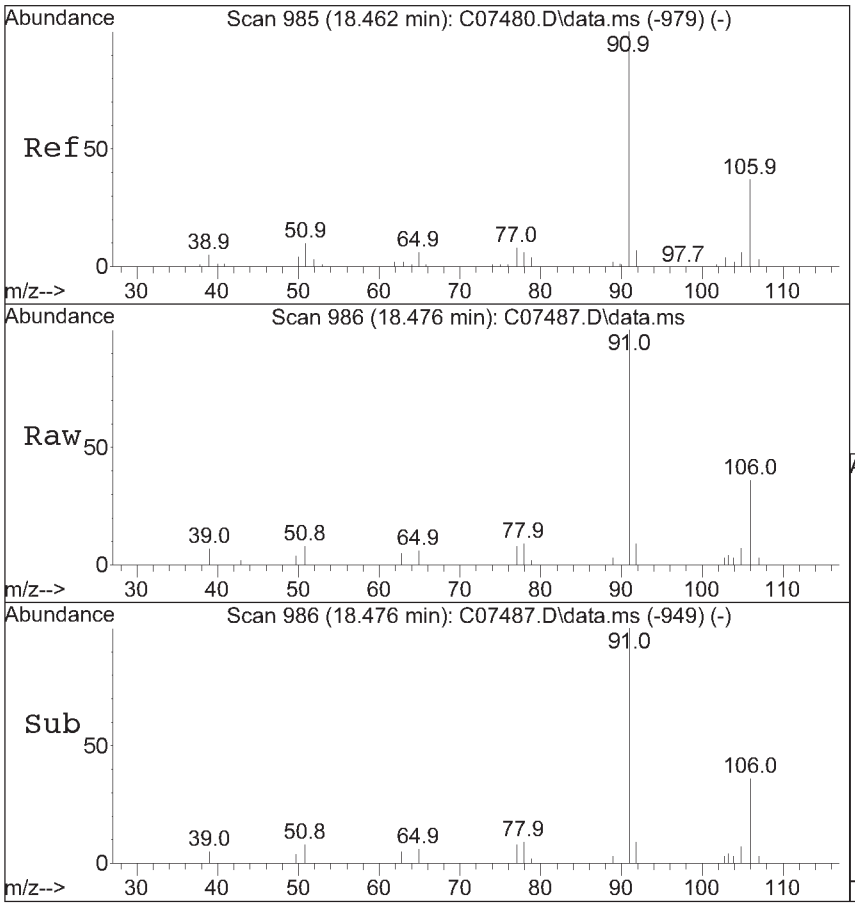


#53
TETRACHLOROETHENE (SIM)
Concen: 0.18 PPBv
RT: 17.010 min Scan# 880
Delta R.T. 0.001 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:166 Resp: 87196

Ion	Ratio	Lower	Upper
166	100		
129	73.8	0.0	0.0#

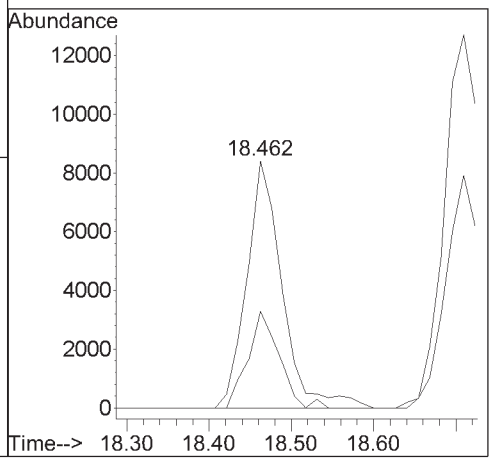


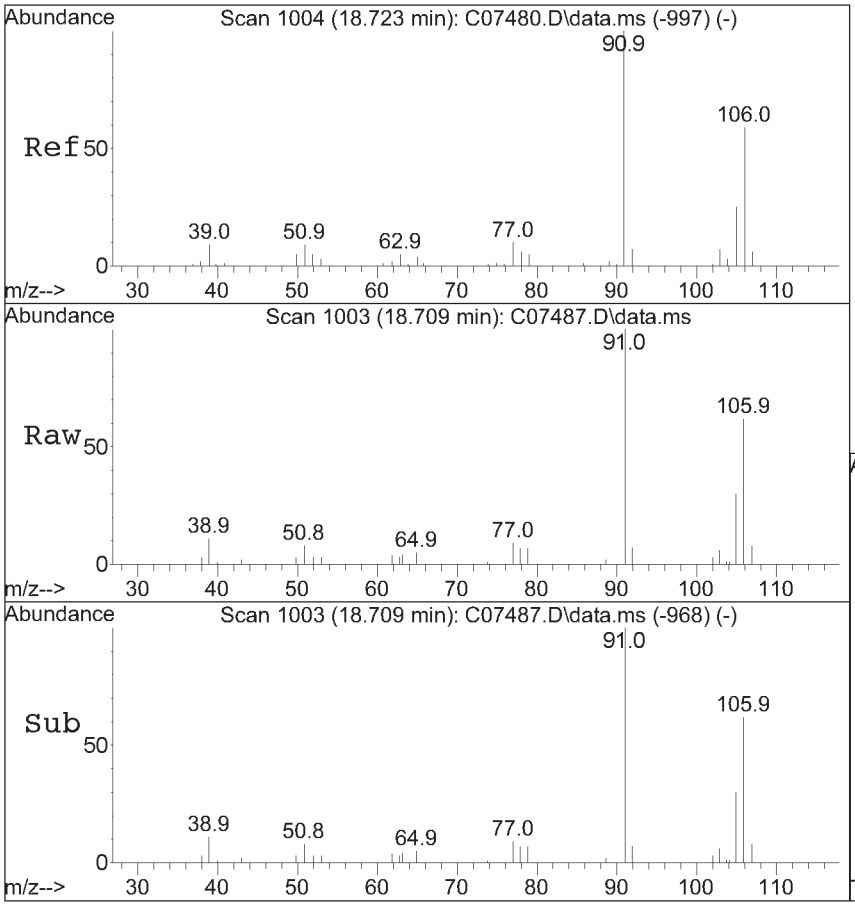


#57
ETHYLBENZENE
Concen: 0.24 PPBv
RT: 18.470 min Scan# 986
Delta R.T. 0.001 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 91 Resp: 251076

Ion	Ratio	Lower	Upper
91	100		
106	34.5	0.0	0.0#

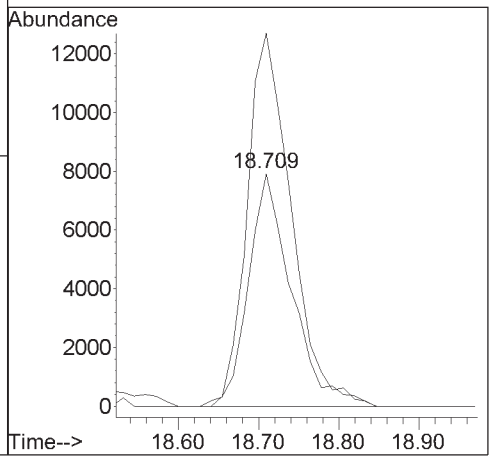


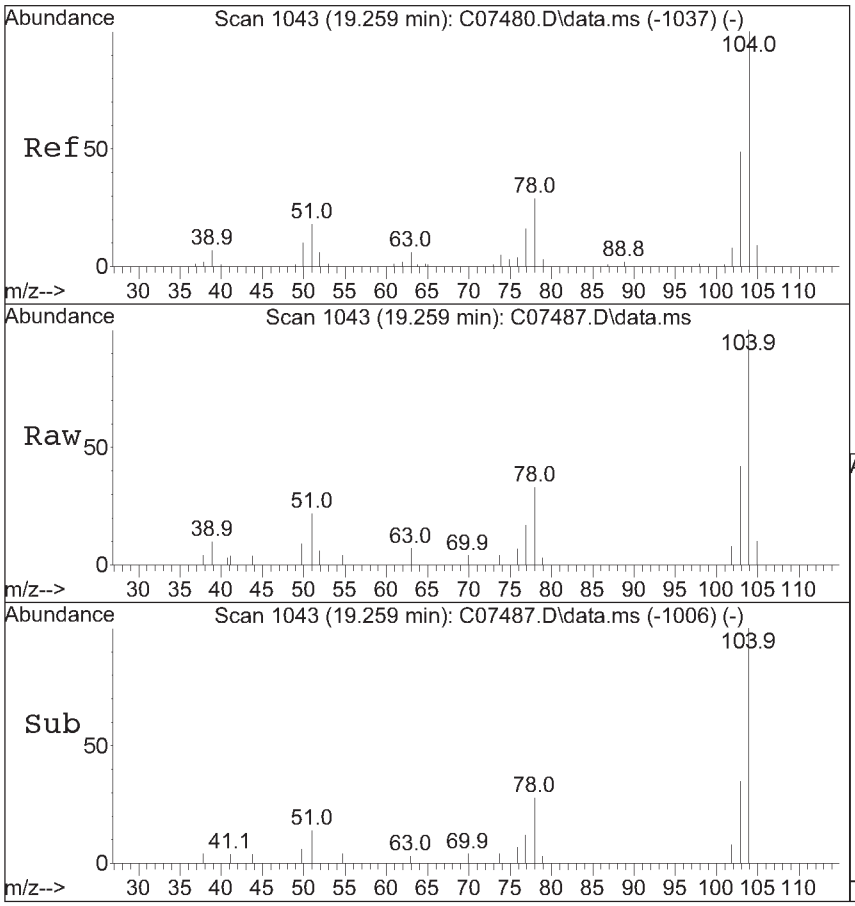


#58
M/P-XYLENE
Concen: 0.57 PPBv
RT: 18.715 min Scan# 1003
Delta R.T. -0.011 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:106 Resp: 294918

Ion	Ratio	Lower	Upper
106	100		
91	164.7	0.0	0.0#

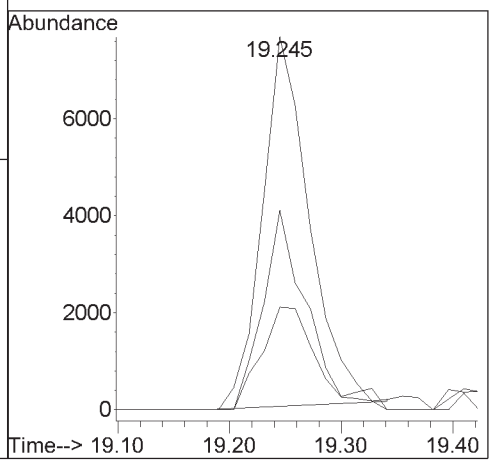


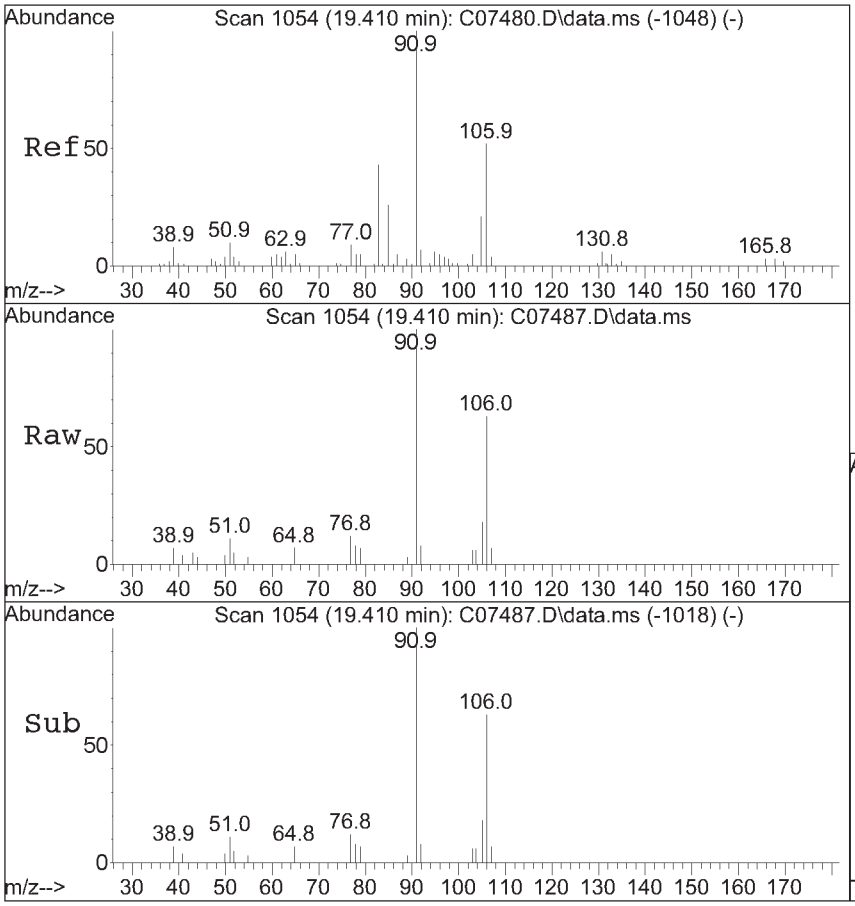


#60
STYRENE
Concen: 0.37 PPBv
RT: 19.253 min Scan# 1043
Delta R.T. -0.003 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:104 Resp: 221447

Ion	Ratio	Lower	Upper
104	100		
103	52.1	0.0	0.0#
78	32.7	0.0	0.0#

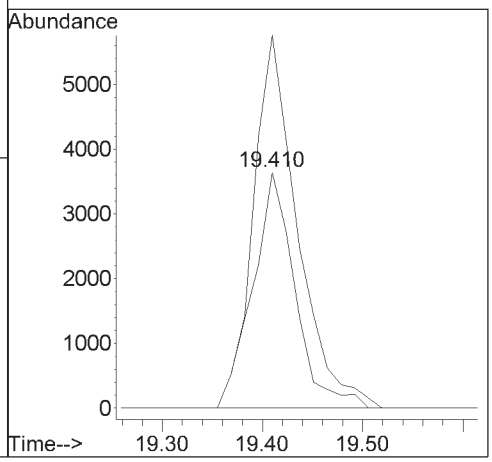


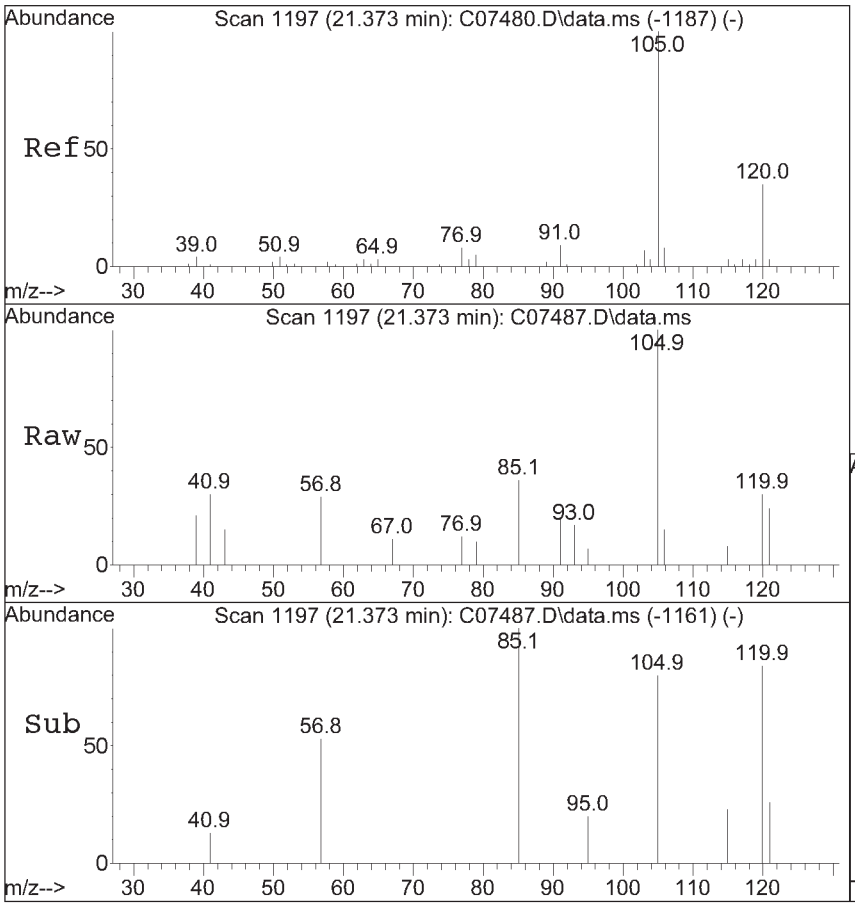


#61
O-XYLENE
Concen: 0.22 PPBv
RT: 19.416 min Scan# 1054
Delta R.T. -0.001 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:106 Resp: 107007

Ion	Ratio	Lower	Upper
106	100		
91	164.7	0.0	0.0#

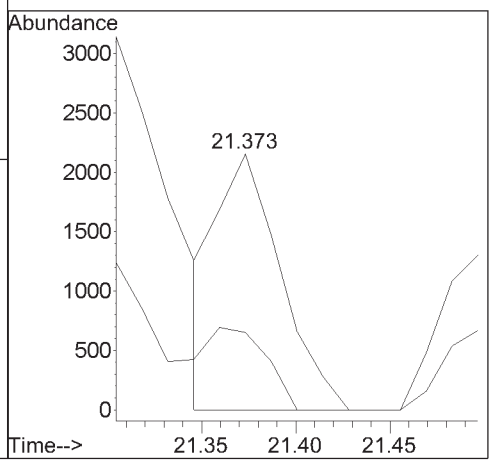


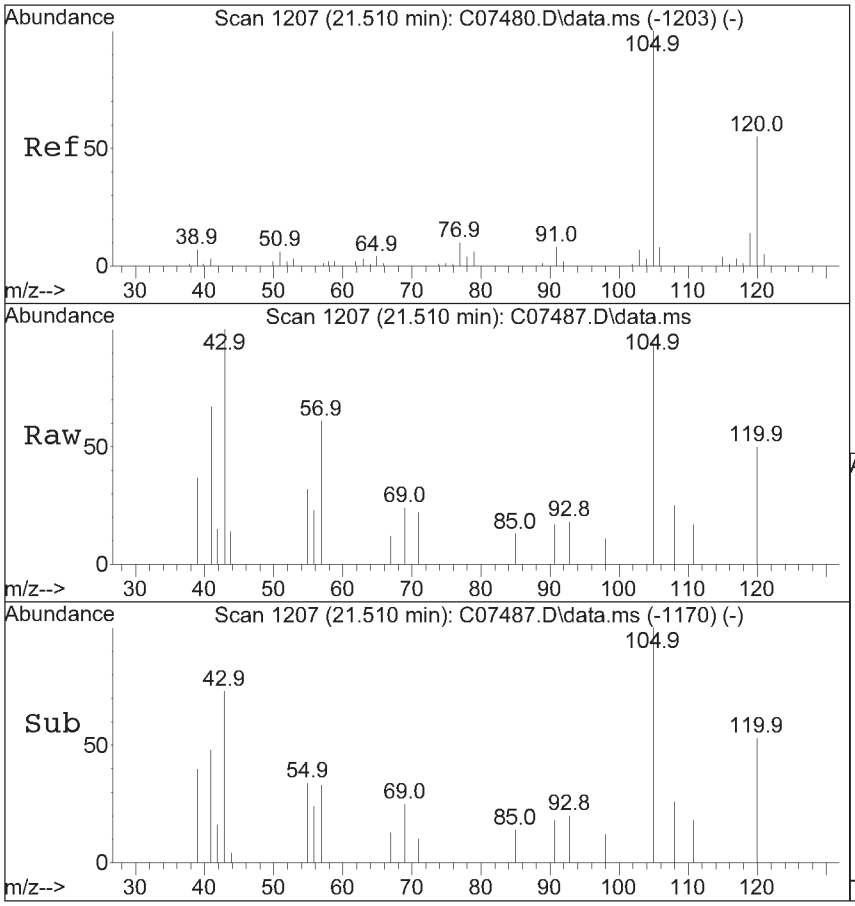


#65
4-ETHYLTOLUENE
Concen: 0.05 PPBv
RT: 21.376 min Scan# 1197
Delta R.T. -0.001 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:105 Resp: 55625

Ion	Ratio	Lower	Upper
105	100		
120	0.0	0.0	0.0

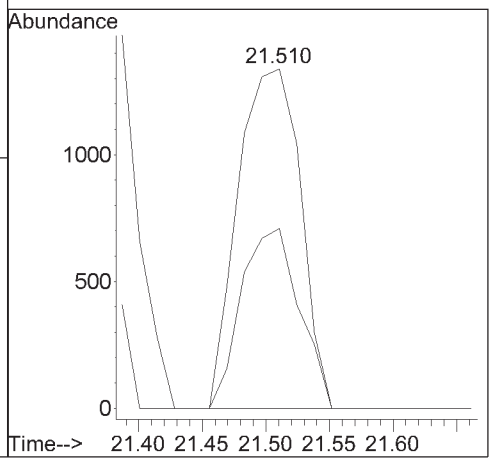


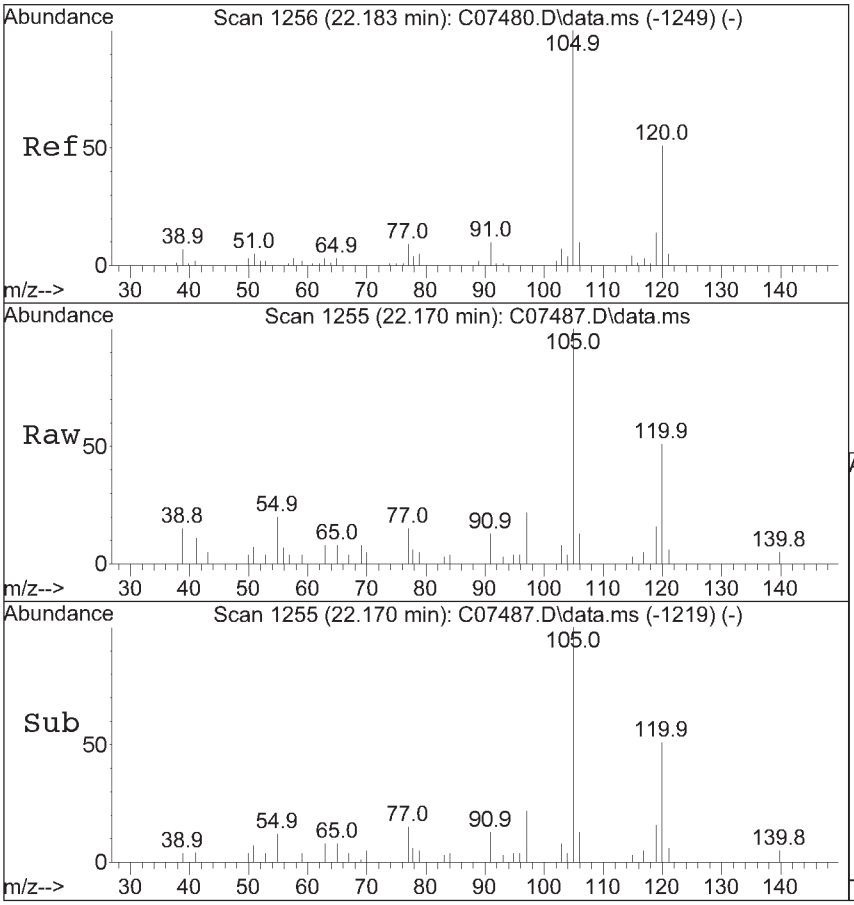


#66
1,3,5-TRIMETHYLBENZENE
Concen: 0.04 PPBv m
RT: 21.510 min Scan# 1207
Delta R.T. 0.003 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:105 Resp: 45775

Ion	Ratio	Lower	Upper
105	100		
120	0.0	0.0	0.0

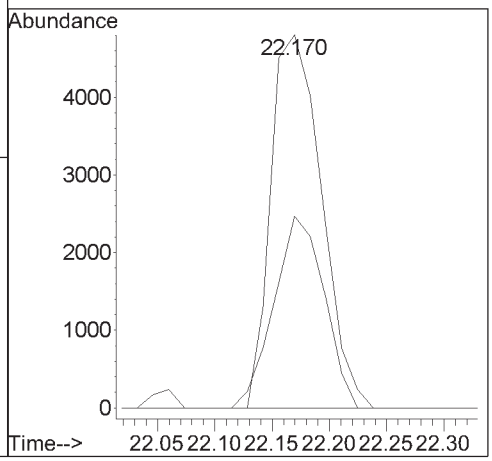


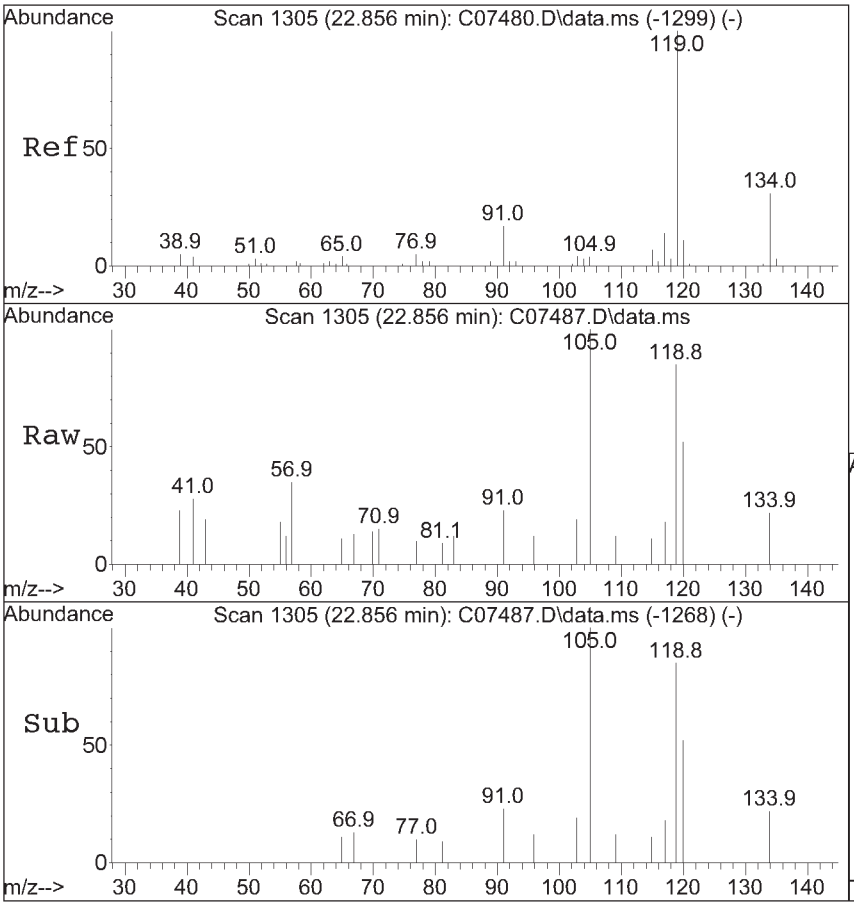


#67
1,2,4-TRIMETHYLBENZENE
Concen: 0.16 PPBv
RT: 22.173 min Scan# 1255
Delta R.T. -0.006 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:105 Resp: 147894

Ion	Ratio	Lower	Upper
105	100		
120	50.8	0.0	0.0#

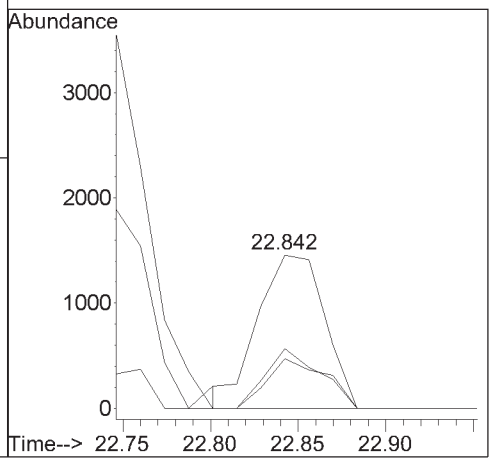


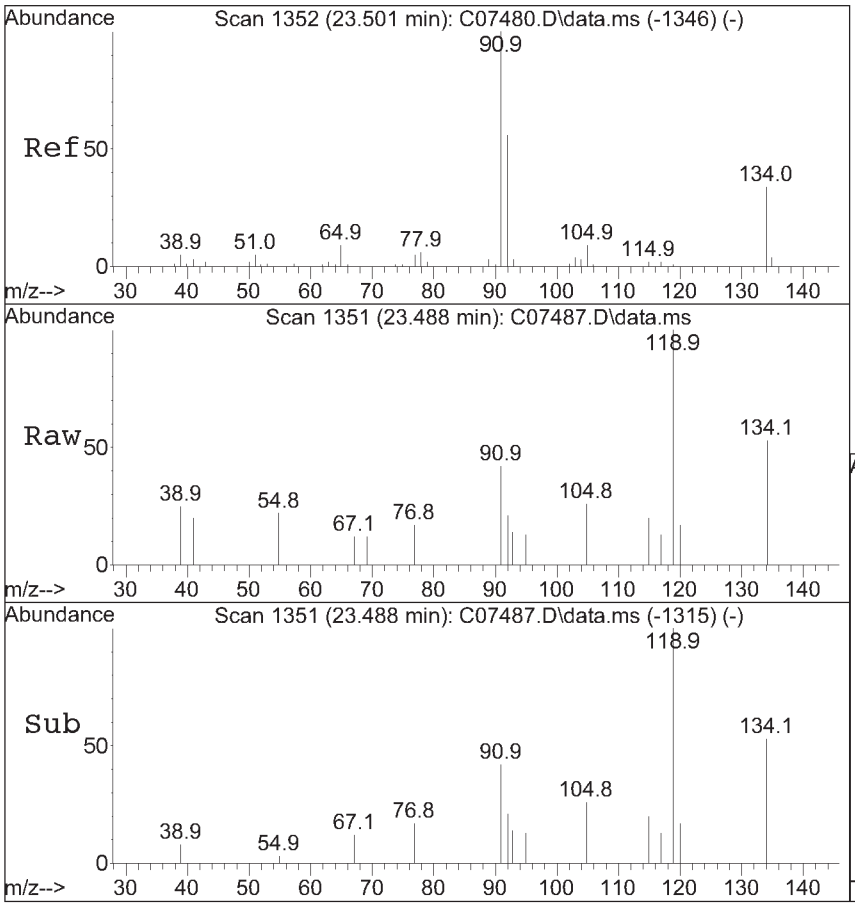


#72
4-ISOPROPYLTOLUENE
Concen: 0.03 PPBv
RT: 22.853 min Scan# 1305
Delta R.T. -0.001 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:119 Resp: 39929

Ion	Ratio	Lower	Upper
119	100		
134	0.0	0.0	0.0
91	0.0	0.0	0.0

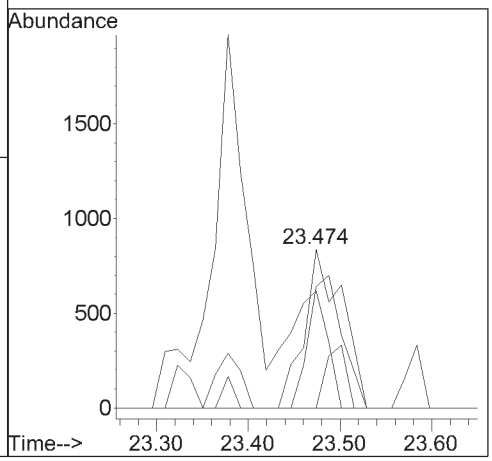


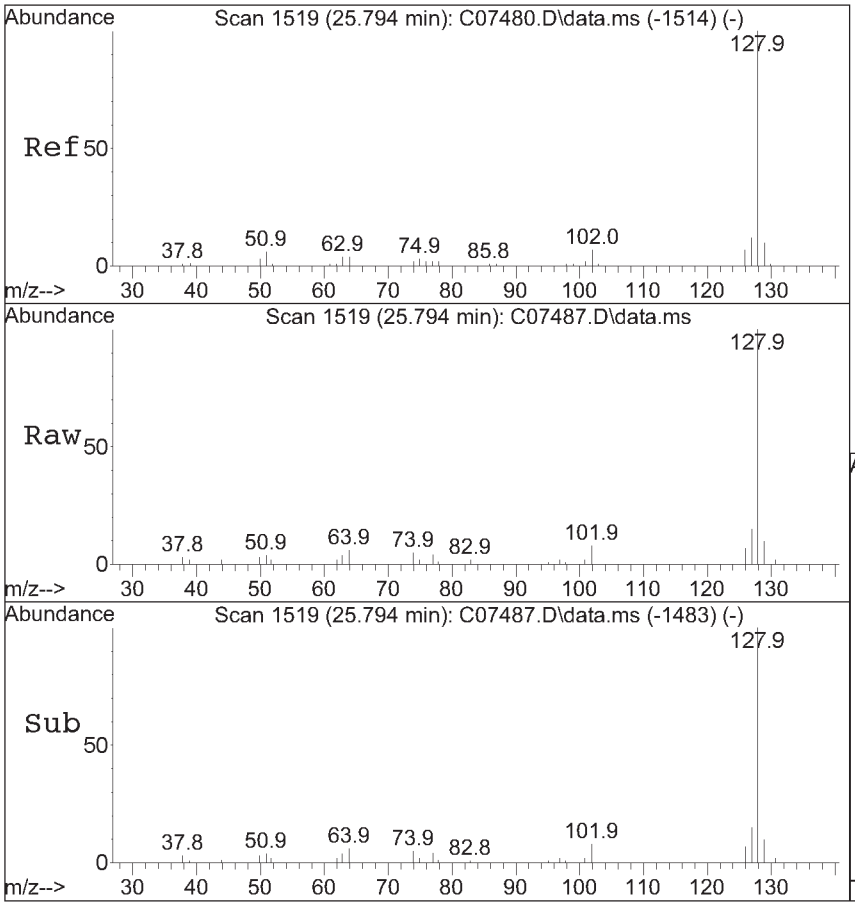


#74
N-BUTYLBENZENE
Concen: 0.02 PPBv
RT: 23.482 min Scan# 1351
Delta R.T. -0.017 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion: 91 Resp: 25418

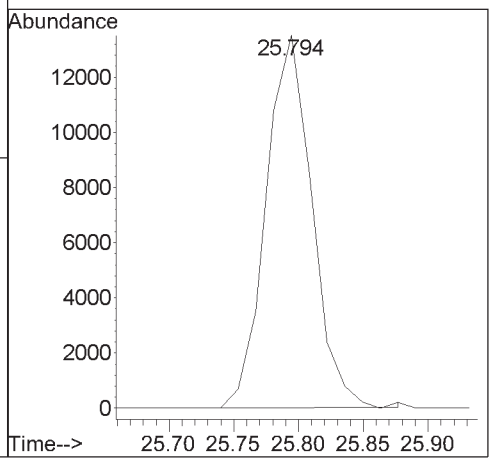
Ion	Ratio	Lower	Upper
91	100		
92	0.0	0.0	0.0
105	0.0	0.0	0.0
134	0.0	0.0	0.0





#76
NAPHTHALENE
Concen: 0.31 PPBv
RT: 25.797 min Scan# 1519
Delta R.T. -0.001 min
Lab File: C07487.D
Acq: 10 Mar 2011 4:58 pm

Tgt Ion:128 Resp: 332208



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-IA1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-06	File ID:	B36765.D
Sampled:	03/03/11 09:52			Analyzed:	03/11/11 22:36
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104256	Sequence:	S101779	Calibration:	1102028
Instrument:	Air2				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
64-17-5	Ethanol	11.4	21.49	

Quantitation Report (QT Reviewed)

Data File : G:\MAR2011\AIR2\031111\B36765.D Vial: 11
Acq On : 11 Mar 2011 10:36 pm Operator: KG
Sample : sb25245-06 @ b1-ia1 1x to-15 Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 14 10:44 2011 Quant Results File: T2021511H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

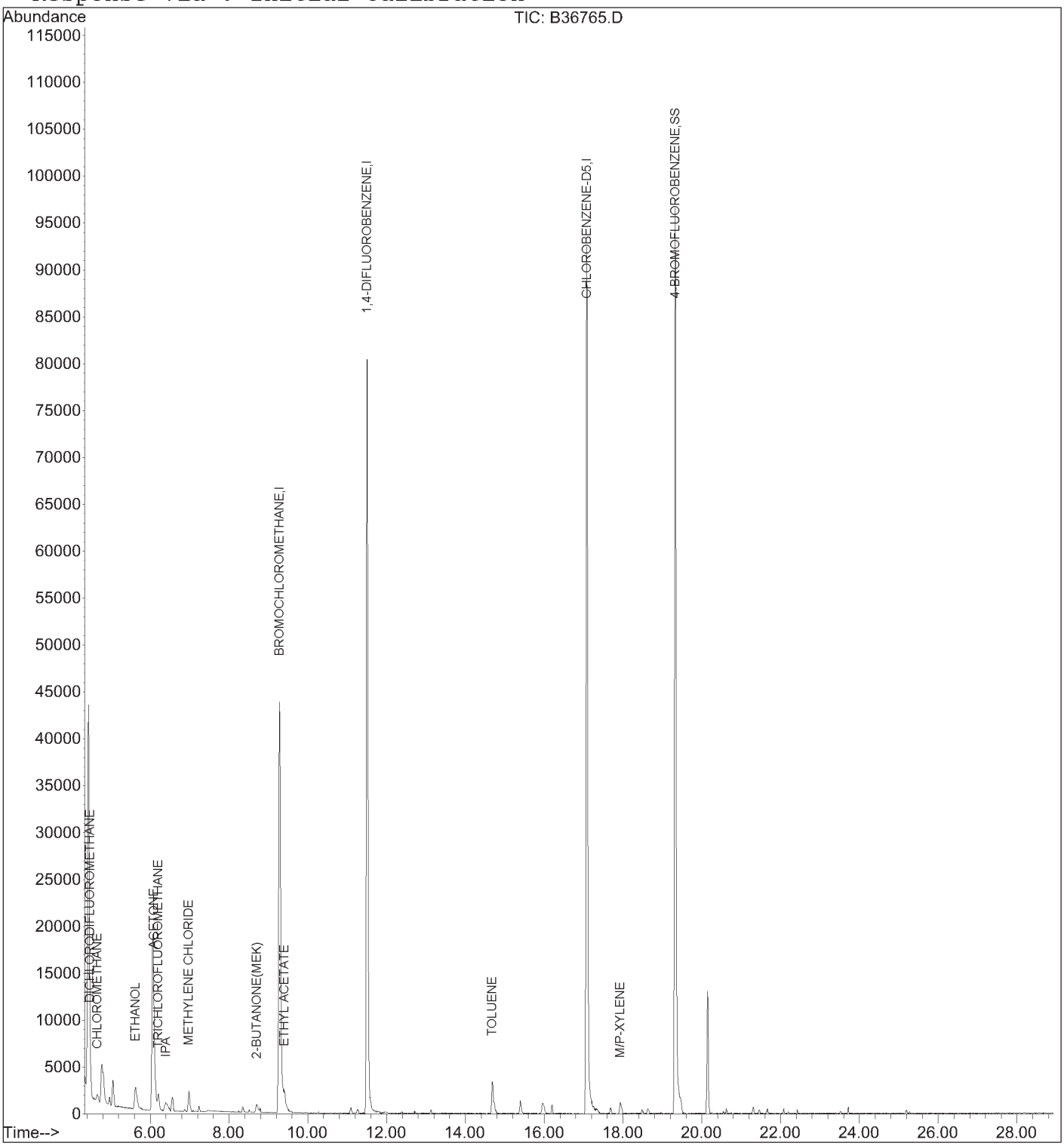
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.28	128	203935	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	11.51	114	948600	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.08	82	459434	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.33	95	539442	10.84	PPBv		0.00
Spiked Amount 10.000	Range 9 - 15		Recovery = 108.40%#				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.49	85	43430	0.67	PPBv		100
4) CHLOROMETHANE	4.66	50	16823m	0.57	PPBv		
10) ACETONE	6.10	58	56241	7.43	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.21	101	24563m	0.37	PPBv		
12) ETHANOL	5.63	45	65480m	11.45	PPBv		
15) METHYLENE CHLORIDE	6.98	84	11757m	0.80	PPBv		
21) IPA	6.39	45	22446	0.90	PPBv	#	100
22) 2-BUTANONE(MEK)	8.70	72	3678m	0.34	PPBv		
25) ETHYL ACETATE	9.41	61	2164m	0.28	PPBv		
43) TOLUENE	14.69	91	50567	0.61	PPBv	#	100
52) M/P-XYLENE	17.94	106	11549m	0.30	PPBv		

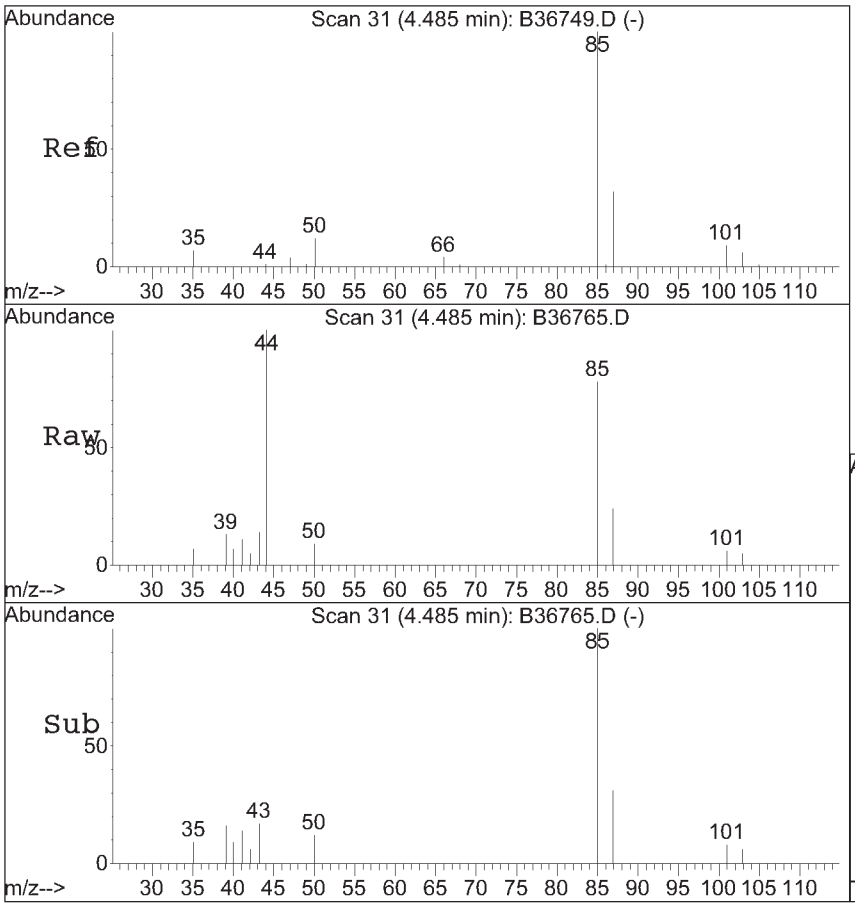
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\MAR2011\AIR2\031111\B36765.D Vial: 11
Acq On : 11 Mar 2011 10:36 pm Operator: KG
Sample : sb25245-06 @ b1-ia1 1x to-15 Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 14 10:44 2011 Quant Results File: T2021511H.RE

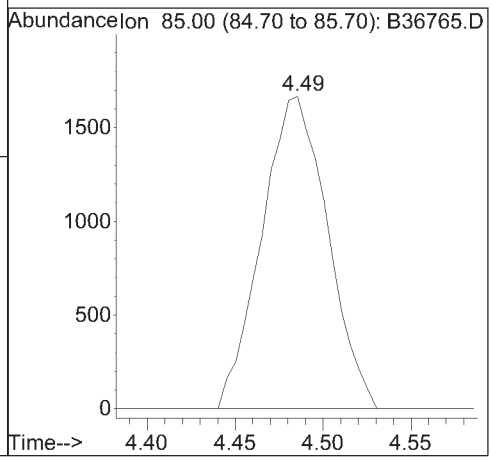
Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration

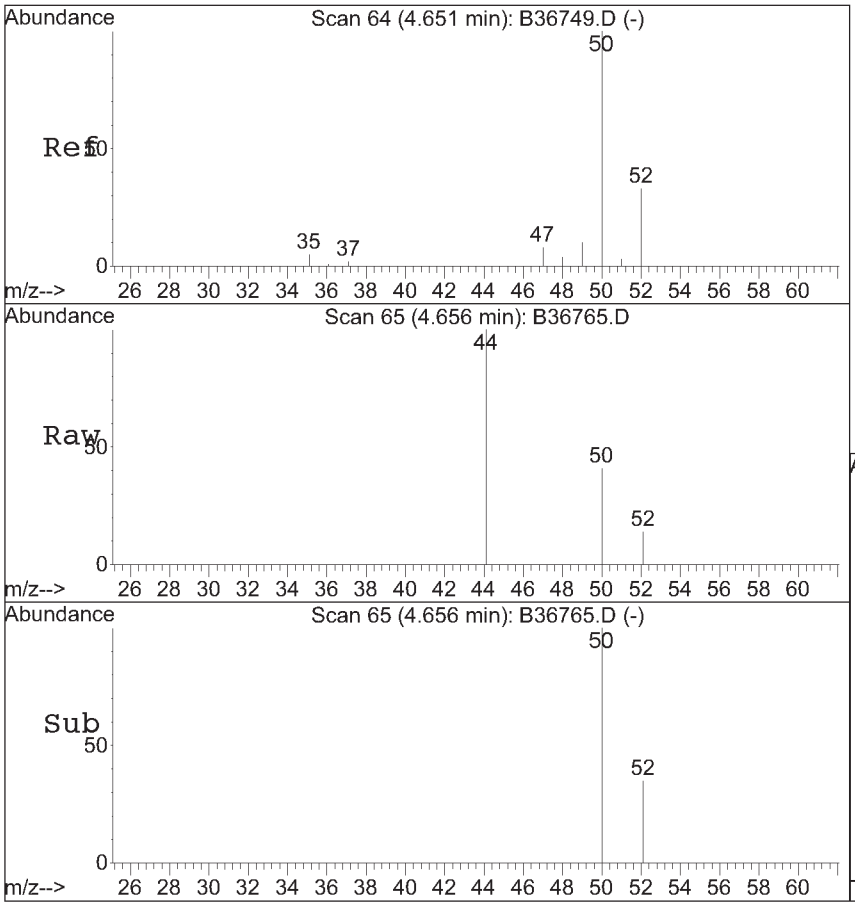




#3
DICHLORODIFLUOROMETHANE
Concen: 0.67 PPBv
RT: 4.49 min Scan# 31
Delta R.T. 0.00 min
Lab File: B36765.D
Acq: 11 Mar 2011 10:36 pm

Tgt Ion: 85 Resp: 43430

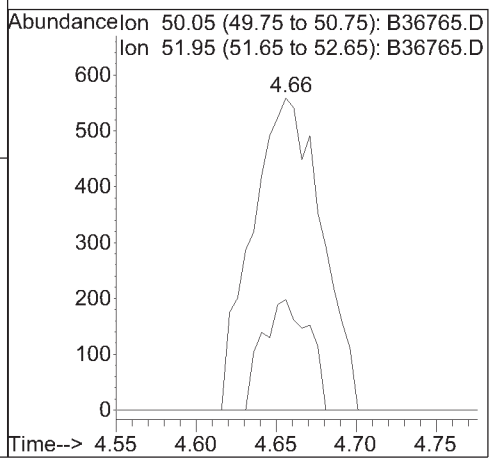


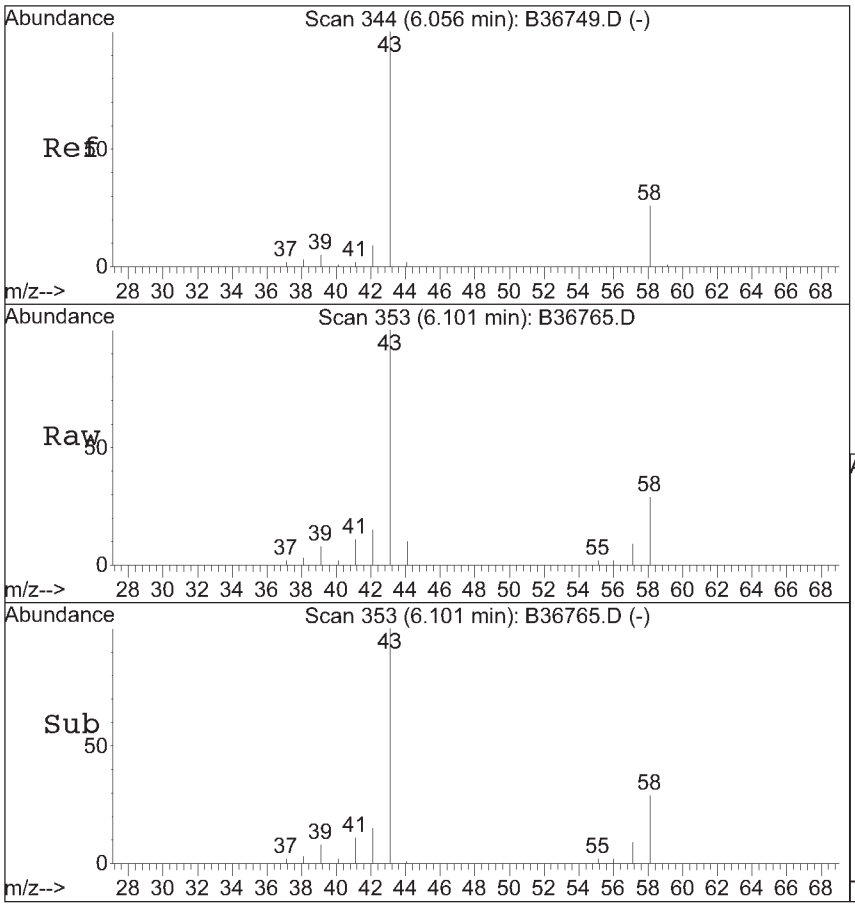


#4
CHLOROMETHANE
Concen: 0.57 PPBv m
RT: 4.66 min Scan# 65
Delta R.T. 0.01 min
Lab File: B36765.D
Acq: 11 Mar 2011 10:36 pm

Tgt Ion: 50 Resp: 16823

Ion	Ratio	Lower	Upper
50	100		
52	0.0	0.0	0.0

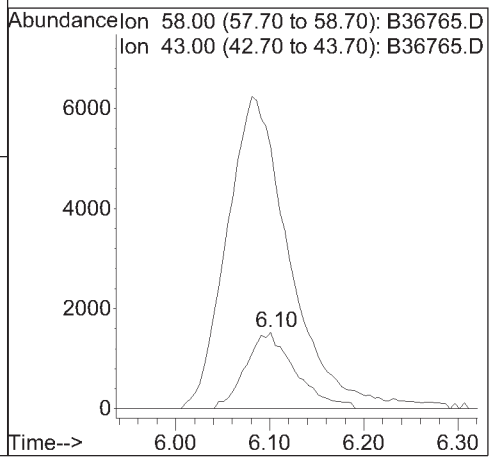


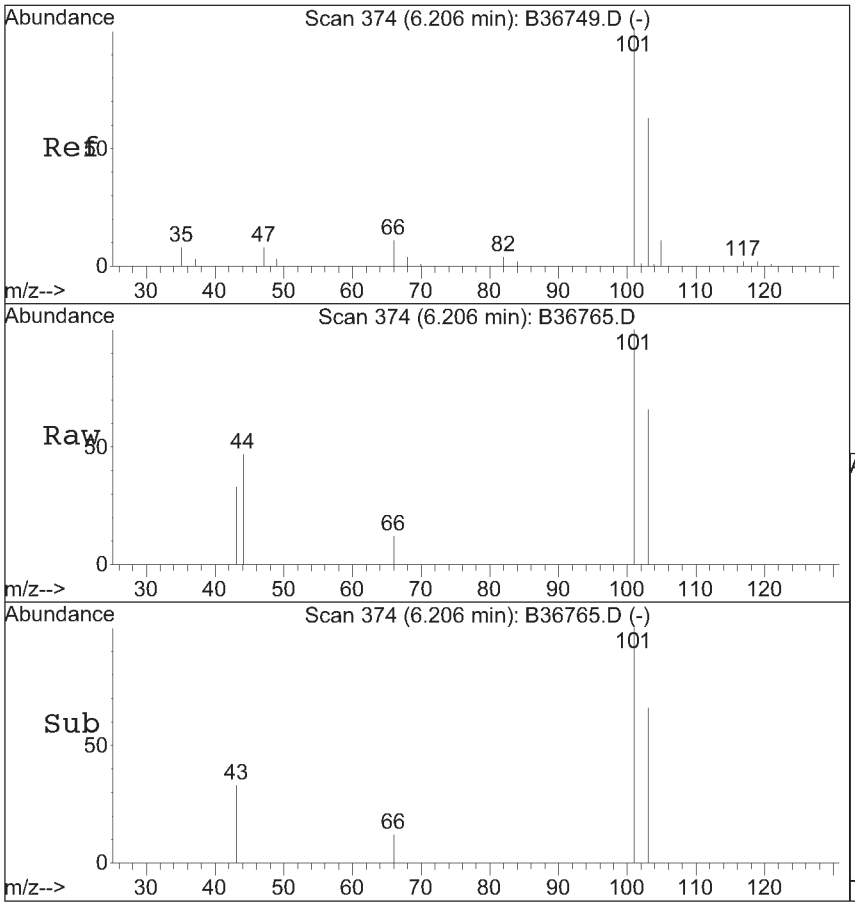


#10
ACETONE
Concen: 7.43 PPBv
RT: 6.10 min Scan# 353
Delta R.T. 0.05 min
Lab File: B36765.D
Acq: 11 Mar 2011 10:36 pm

Tgt Ion: 58 Resp: 56241

Ion	Ratio	Lower	Upper
58	100		
43	490.6	0.0	0.0#

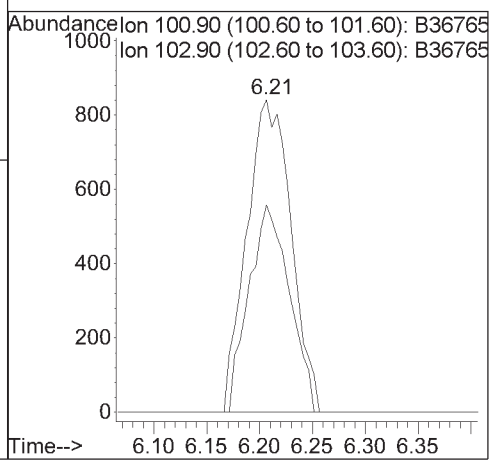


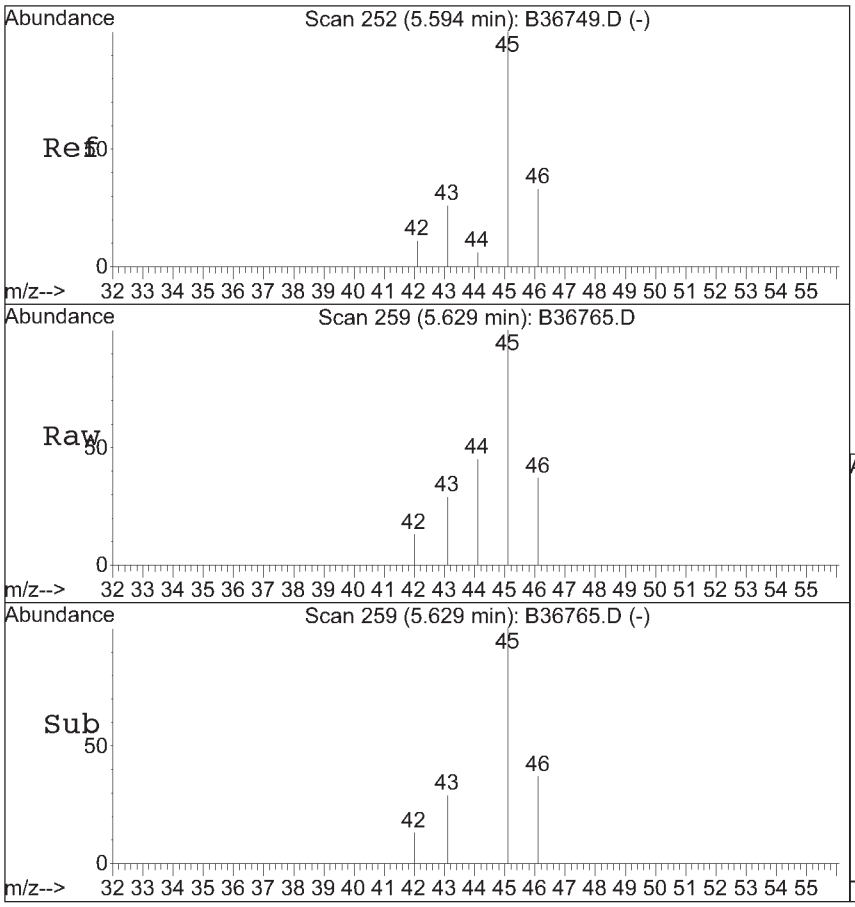


#11
TRICHLOROFLUOROMETHANE
Concen: 0.37 PPBv m
RT: 6.21 min Scan# 374
Delta R.T. 0.00 min
Lab File: B36765.D
Acq: 11 Mar 2011 10:36 pm

Tgt Ion:101 Resp: 24563

Ion	Ratio	Lower	Upper
101	100		
103	0.0	51.4	77.2#

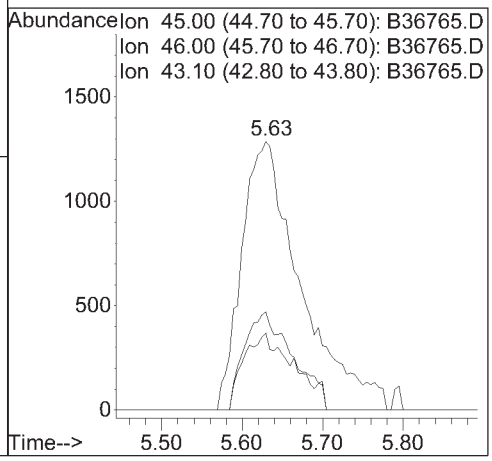


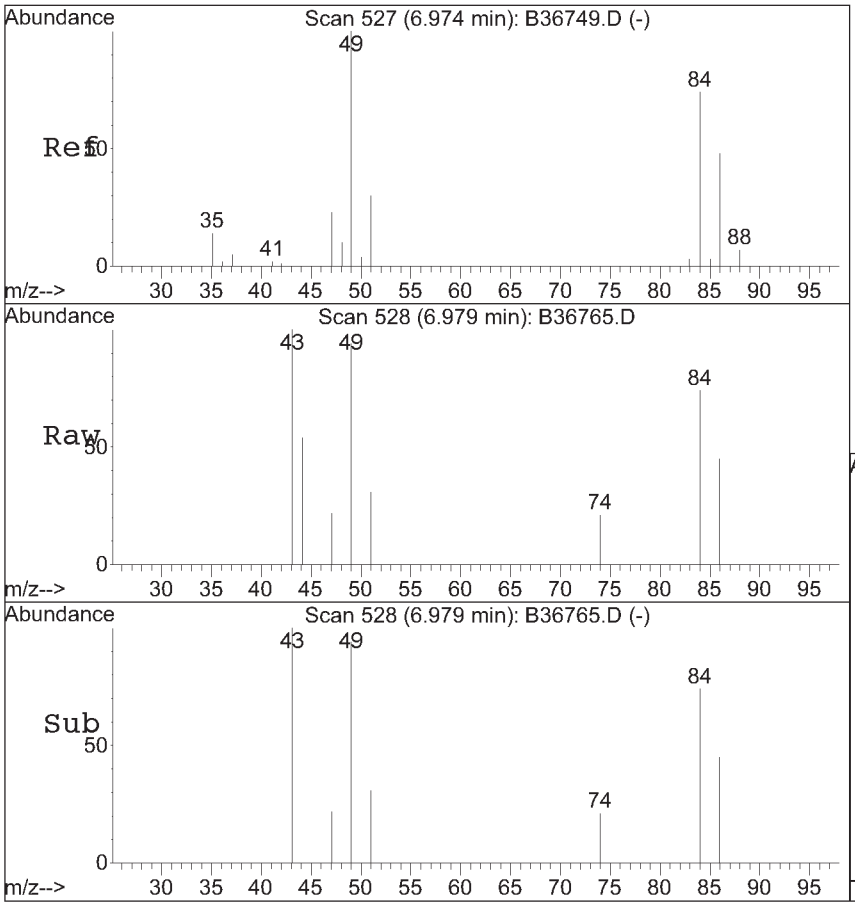


#12
ETHANOL
Concen: 11.45 PPBv m
RT: 5.63 min Scan# 259
Delta R.T. 0.06 min
Lab File: B36765.D
Acq: 11 Mar 2011 10:36 pm

Tgt Ion: 45 Resp: 65480

Ion	Ratio	Lower	Upper
45	100		
46	30.1	28.9	43.3
43	0.0	23.7	23.7#

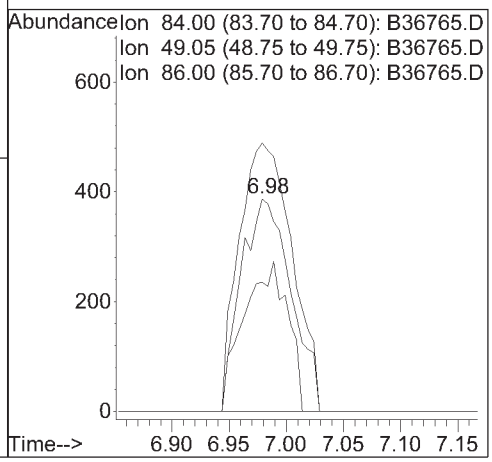


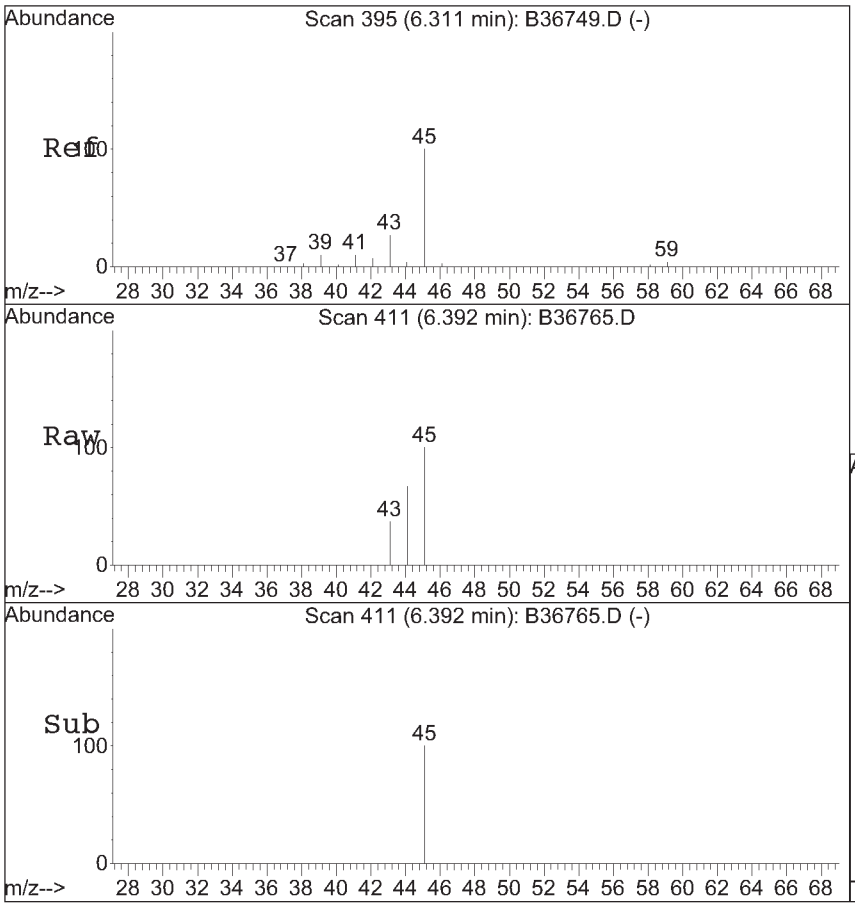


#15
METHYLENE CHLORIDE
Concen: 0.80 PPBv m
RT: 6.98 min Scan# 528
Delta R.T. 0.01 min
Lab File: B36765.D
Acq: 11 Mar 2011 10:36 pm

Tgt Ion: 84 Resp: 11757

Ion	Ratio	Lower	Upper
84	100		
49	0.0	0.0	0.0
86	0.0	0.0	0.0

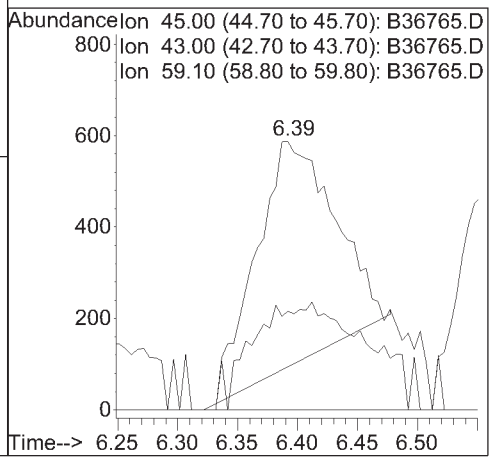


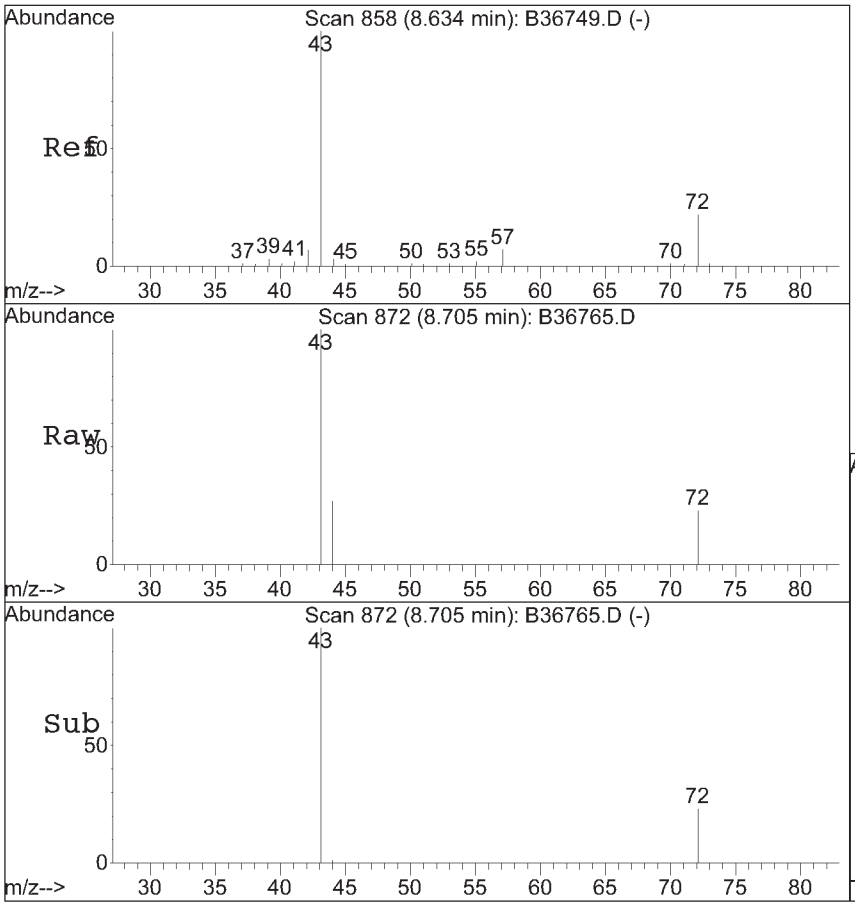


#21
IPA
Concen: 0.90 PPBv
RT: 6.39 min Scan# 411
Delta R.T. 0.10 min
Lab File: B36765.D
Acq: 11 Mar 2011 10:36 pm

Tgt Ion: 45 Resp: 22446

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	0.0
59	0.0	0.0	0.0

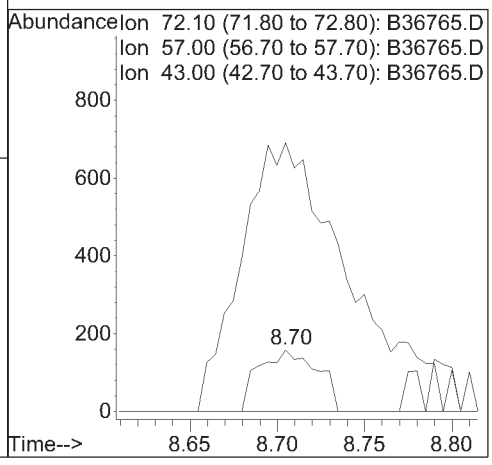


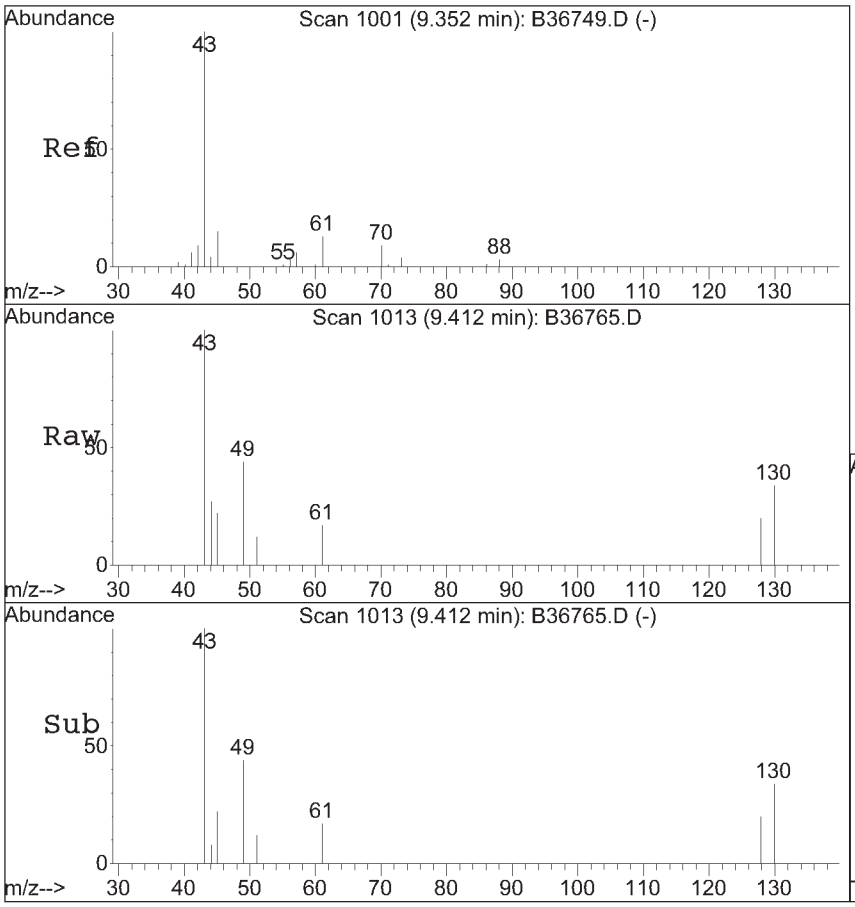


#22
2-BUTANONE(MEK)
Concen: 0.34 PPBv m
RT: 8.70 min Scan# 872
Delta R.T. 0.07 min
Lab File: B36765.D
Acq: 11 Mar 2011 10:36 pm

Tgt Ion: 72 Resp: 3678

Ion	Ratio	Lower	Upper
72	100		
57	0.0	0.0	0.0
43	0.0	0.0	0.0

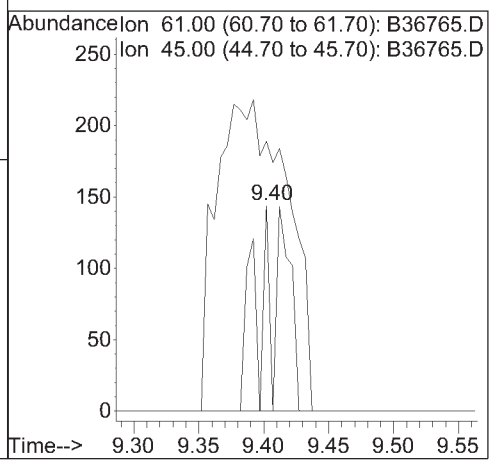


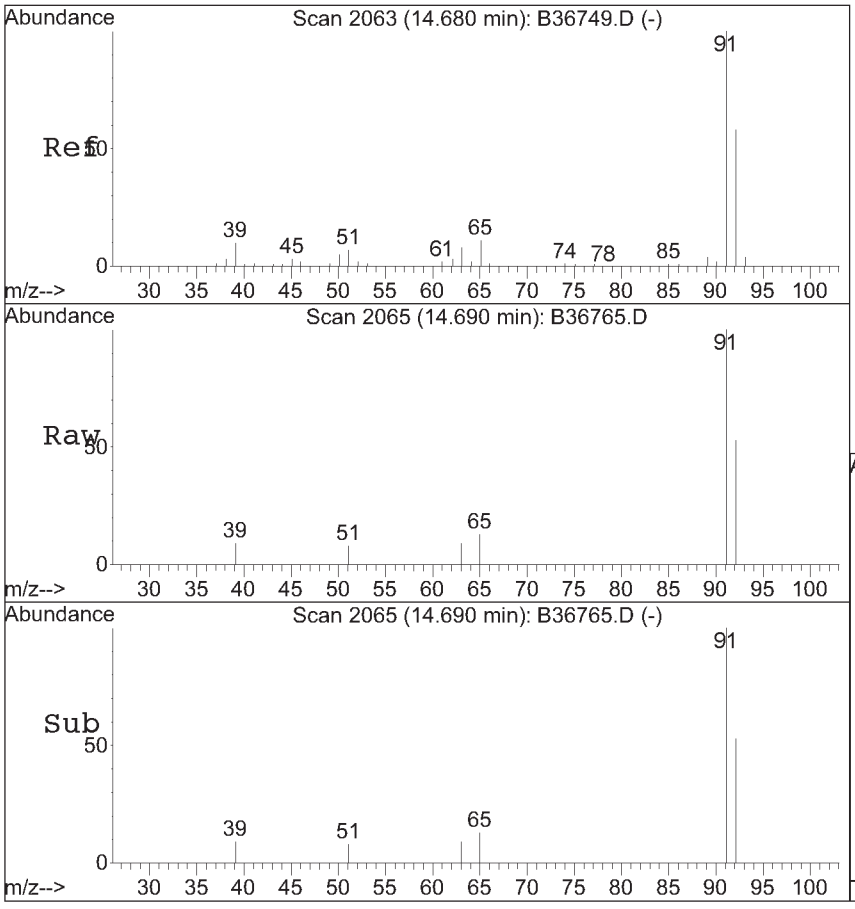


#25
ETHYL ACETATE
Concen: 0.28 PPBv m
RT: 9.41 min Scan# 1013
Delta R.T. 0.06 min
Lab File: B36765.D
Acq: 11 Mar 2011 10:36 pm

Tgt Ion: 61 Resp: 2164

Ion	Ratio	Lower	Upper
61	100		
45	0.0	0.0	0.0

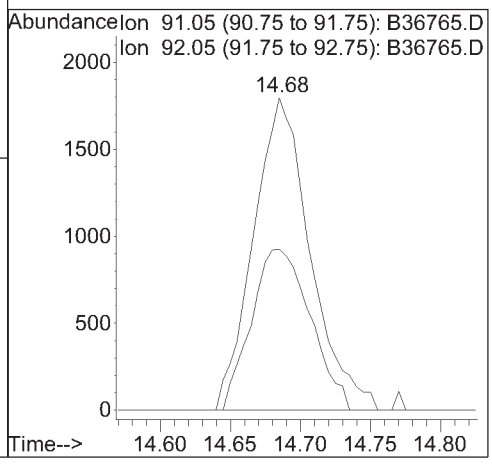


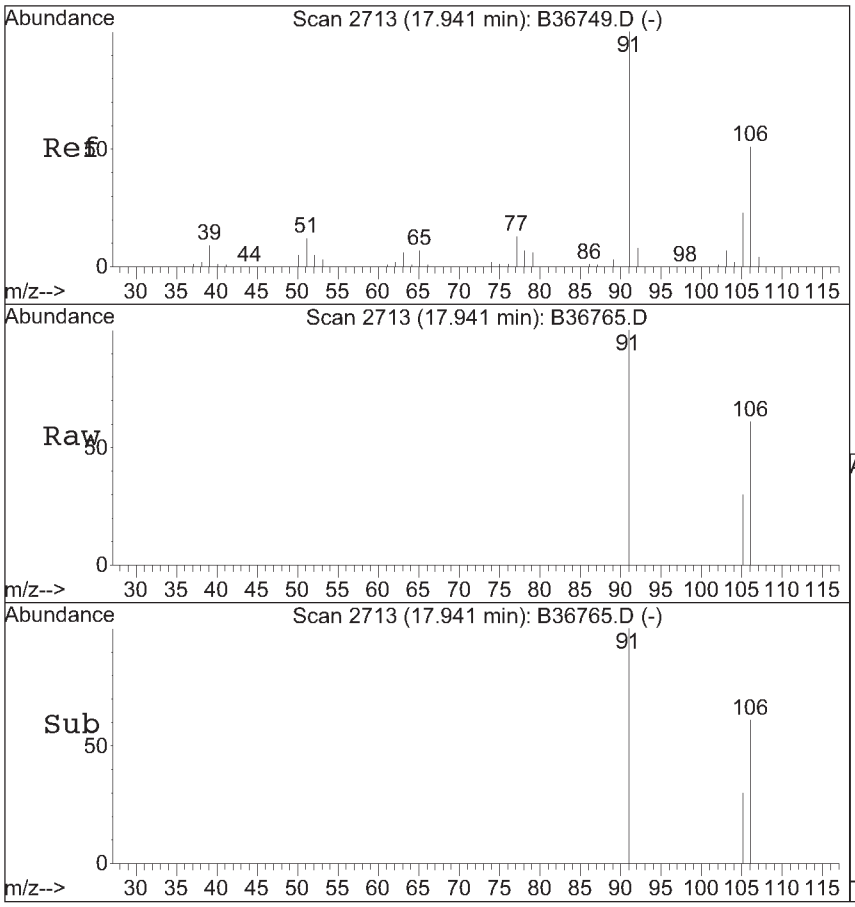


#43
TOLUENE
Concen: 0.61 PPBv
RT: 14.69 min Scan# 2065
Delta R.T. 0.00 min
Lab File: B36765.D
Acq: 11 Mar 2011 10:36 pm

Tgt Ion: 91 Resp: 50567

Ion	Ratio	Lower	Upper
91	100		
92	0.0	0.0	0.0

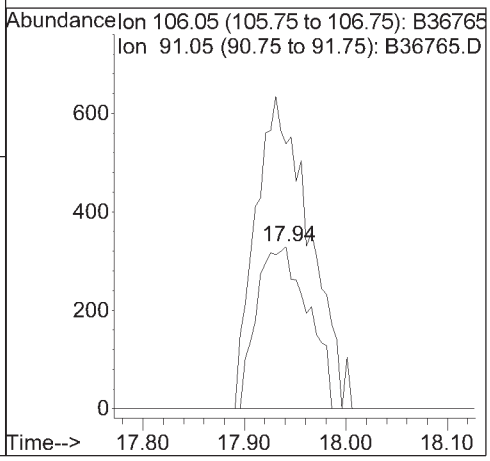




#52
M/P-XYLENE
Concen: 0.30 PPBv m
RT: 17.94 min Scan# 2713
Delta R.T. -0.00 min
Lab File: B36765.D
Acq: 11 Mar 2011 10:36 pm

Tgt Ion:106 Resp: 11549

Ion	Ratio	Lower	Upper
106	100		
91	0.0	164.4	246.6#



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-IA2-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-07	File ID:	C07488.D
Sampled:	03/03/11 10:00			Analyzed:	03/10/11 17:52
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
71-55-6	1,1,1-Trichloroethane	0.052000	0.28	U
115-07-1	Propene	0.084000	0.14	U
75-71-8	Dichlorodifluoromethane (Freon12)	0.47000	2.32	
74-87-3	Chloromethane	0.43000	0.89	
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.057000	0.40	U
75-01-4	Vinyl chloride	0.064000	0.16	U
106-99-0	1,3-Butadiene	0.055000	0.12	U
74-83-9	Bromomethane	0.052000	0.20	U
75-00-3	Chloroethane	0.076000	0.20	U
67-64-1	Acetone	7.6700	18.23	
75-69-4	Trichlorofluoromethane (Freon 11)	0.22000	1.24	
64-17-5	Ethanol	10.380	19.57	E
75-35-4	1,1-Dichloroethene	0.073000	0.29	U
107-13-1	Acrylonitrile	0.064000	0.14	U
75-09-2	Methylene chloride	2.0400	7.08	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.080000	0.61	J
75-15-0	Carbon disulfide	0.057000	0.18	U
156-60-5	trans-1,2-Dichloroethene	0.042000	0.17	U
75-34-3	1,1-Dichloroethane	0.049000	0.20	U
1634-04-4	Methyl tert-butyl ether	0.049000	0.18	U
67-63-0	Isopropyl alcohol	2.5300	6.21	
78-93-3	2-Butanone (MEK)	0.89000	2.62	
156-59-2	cis-1,2-Dichloroethene	0.049000	0.19	U
110-54-3	Hexane	1.2600	4.44	
141-78-6	Ethyl acetate	0.77000	2.77	
67-66-3	Chloroform	0.045000	0.22	U
109-99-9	Tetrahydrofuran	0.053000	0.16	U
107-06-2	1,2-Dichloroethane	0.20000	0.81	
71-43-2	Benzene	0.26000	0.83	
56-23-5	Carbon tetrachloride	0.070000	0.44	J
110-82-7	Cyclohexane	0.13000	0.45	
78-87-5	1,2-Dichloropropane	0.049000	0.23	U
75-27-4	Bromodichloromethane	0.053000	0.36	U
79-01-6	Trichloroethene	0.080000	0.43	J
123-91-1	1,4-Dioxane	0.067000	0.24	U
142-82-5	n-Heptane	0.13000	0.53	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.16000	0.66	
10061-01-5	cis-1,3-Dichloropropene	0.047000	0.21	U
10061-02-6	trans-1,3-Dichloropropene	0.047000	0.21	U
79-00-5	1,1,2-Trichloroethane	0.066000	0.36	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-IA2-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-07	File ID:	C07488.D
Sampled:	03/03/11 10:00			Analyzed:	03/10/11 17:52
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
108-88-3	Toluene	0.90000	3.39	
591-78-6	2-Hexanone (MBK)	0.042000	0.17	U
124-48-1	Dibromochloromethane	0.059000	0.50	U
106-93-4	1,2-Dibromoethane (EDB)	0.043000	0.33	U
127-18-4	Tetrachloroethene	0.57000	3.87	
108-90-7	Chlorobenzene	0.061000	0.28	U
100-41-4	Ethylbenzene	0.21000	0.91	
630-20-6	1,1,1,2-Tetrachloroethane	0.047000	0.32	U
179601-23-1	m,p-Xylene	0.25000	1.08	
75-25-2	Bromoform	0.046000	0.48	U
100-42-5	Styrene	0.080000	0.34	J
95-47-6	o-Xylene	0.070000	0.30	J
79-34-5	1,1,2,2-Tetrachloroethane	0.066000	0.45	U
108-67-8	1,3,5-Trimethylbenzene	0.046000	0.23	U
622-96-8	4-Ethyltoluene	0.055000	0.27	U
95-63-6	1,2,4-Trimethylbenzene	0.039000	0.19	U
98-82-8	Isopropylbenzene	0.056000	0.28	U
541-73-1	1,3-Dichlorobenzene	0.055000	0.33	U
100-44-7	Benzyl chloride	0.062000	0.32	U
106-46-7	1,4-Dichlorobenzene	0.061000	0.37	U
91-20-3	Naphthalene	0.18300	0.96	U
95-50-1	1,2-Dichlorobenzene	0.053000	0.32	U
120-82-1	1,2,4-Trichlorobenzene	0.053000	0.39	U
87-68-3	Hexachlorobutadiene	0.040000	0.43	U
135-98-8	sec-Butylbenzene	0.052000	0.29	U
99-87-6	4-Isopropyltoluene	0.062000	0.33	U
104-51-8	n-Butylbenzene	0.056000	0.31	U

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07488.D
Acq On : 10 Mar 2011 5:52 pm
Operator : KRL
Sample : sb25245-07 @ b1-ia2 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 11 15:46:31 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

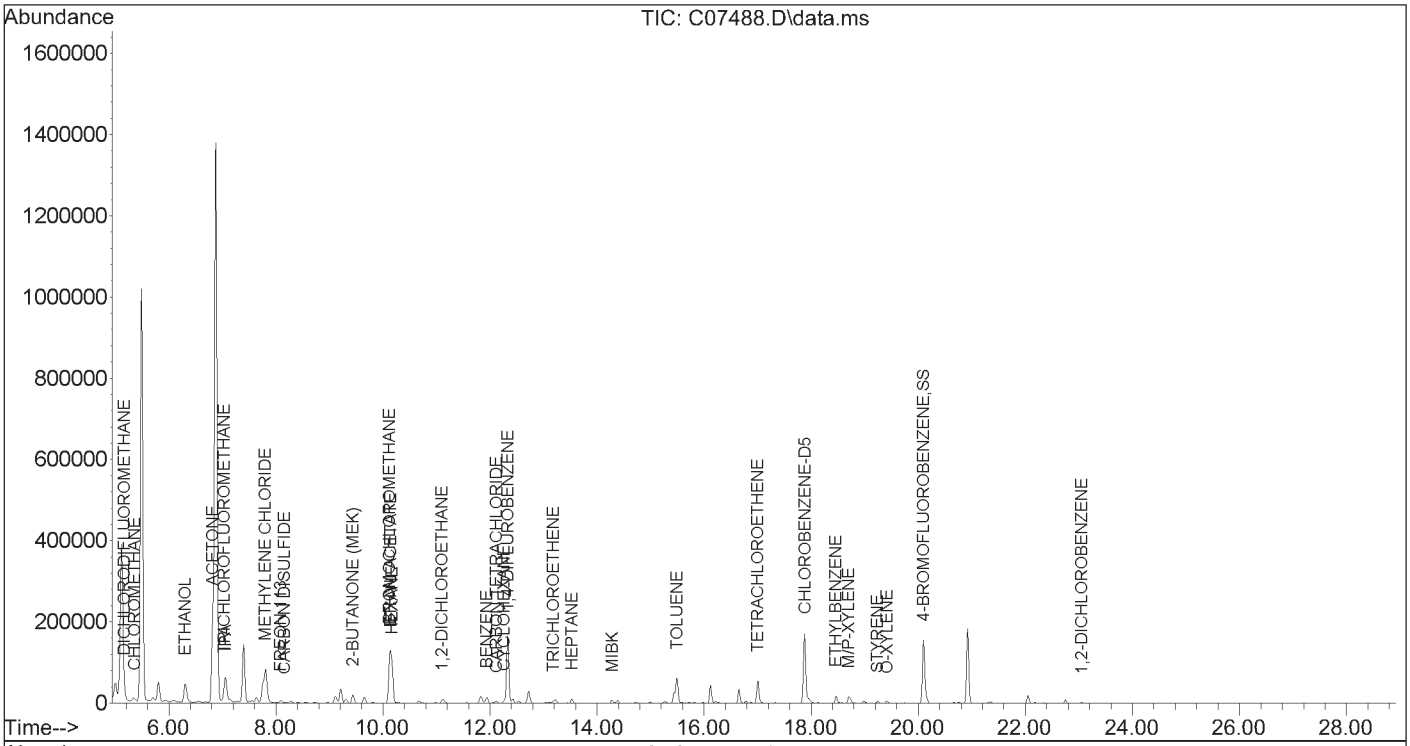
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.133	128	530592	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.336	114	2565248	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.881	54	321710	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.104	95	1075733	9.60	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 96.00%#			
Target Compounds						Qvalue
3) DICHLORODIFLUOROMETHANE	5.175	85	359555	0.47	PPBv	# 100
4) CHLOROMETHANE	5.357	50	170893	0.43	PPBv	# 100
11) ACETONE	6.819	58	1248785m	7.67	PPBv	
12) TRICHLOROFLUOROMETHANE	7.036	101	227745	0.22	PPBv	# 100
13) ETHANOL	6.311	45	989126	10.38	PPBv	# 100
17) METHYLENE CHLORIDE	7.814	84	605424	2.04	PPBv	# 100
18) FREON 113	8.100	101	51750	0.08	PPBv	# 100
19) CARBON DISULFIDE	8.165	76	26095	0.04	PPBv	100
24) IPA	7.065	45	1270847	2.53	PPBv	# 100
25) 2-BUTANONE (MEK)	9.444	72	101648	0.89	PPBv	# 100
27) HEXANE	10.176	57	488371	1.26	PPBv	# 100
28) ETHYL ACETATE	10.158	61	59698	0.77	PPBv	# 100
31) 1,2-DICHLOROETHANE	11.109	62	53818	0.20	PPBv	# 100
33) BENZENE	11.945	78	207961	0.26	PPBv	100
34) CARBON TETRACHLORIDE	12.125	119	41124	0.07	PPBv	# 100
35] CARBON TETRACHLORIDE (...	12.123	119	46189	0.06	PPBv	# 100
36) CYCLOHEXANE	12.270	56	50744m	0.13	PPBv	
40) TRICHLOROETHENE	13.190	95	29409	0.08	PPBv	# 100
41] TRICHLOROETHENE (SIM)	13.188	95	33463	0.08	PPBv	# 100
43) HEPTANE	13.533	57	31313m	0.13	PPBv	
44) MIBK	14.283	43	91747	0.16	PPBv	# 100
48) TOLUENE	15.498	91	831464	0.90	PPBv	# 100
52) TETRACHLOROETHENE	17.008	166	274419	0.57	PPBv	# 100
53] TETRACHLOROETHENE (SIM)	17.009	166	326800	0.59	PPBv	# 100
57) ETHYLBENZENE	18.469	91	240880	0.21	PPBv	# 100
58) M/P-XYLENE	18.707	106	135278	0.25	PPBv	# 100
60) STYRENE	19.252	104	49611	0.08	PPBv	# 100
61) O-XYLENE	19.418	106	36930	0.07	PPBv	# 100
73) 1,2-DICHLOROBENZENE	23.058	146	16106	0.02	PPBv	# 100

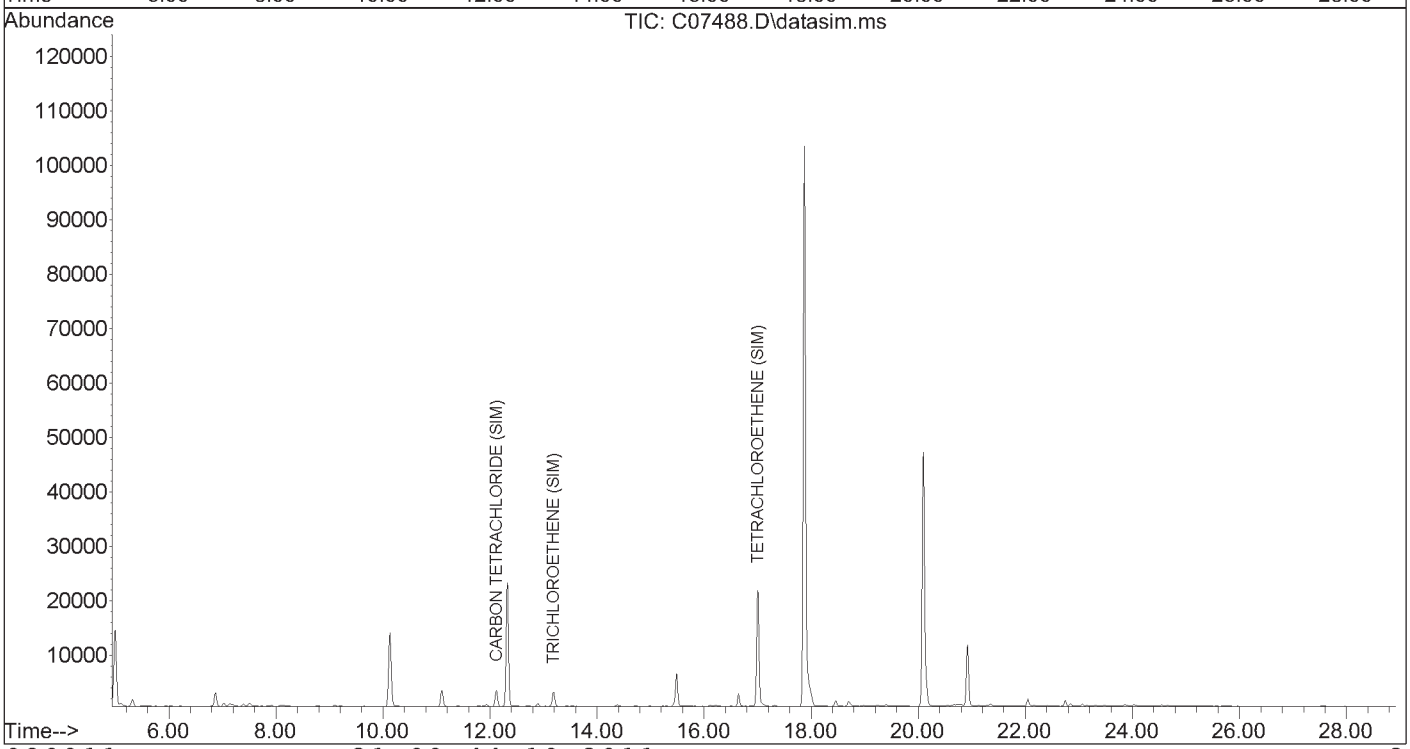
(#) = qualifier out of range (m) = manual integration (+) = signals summed

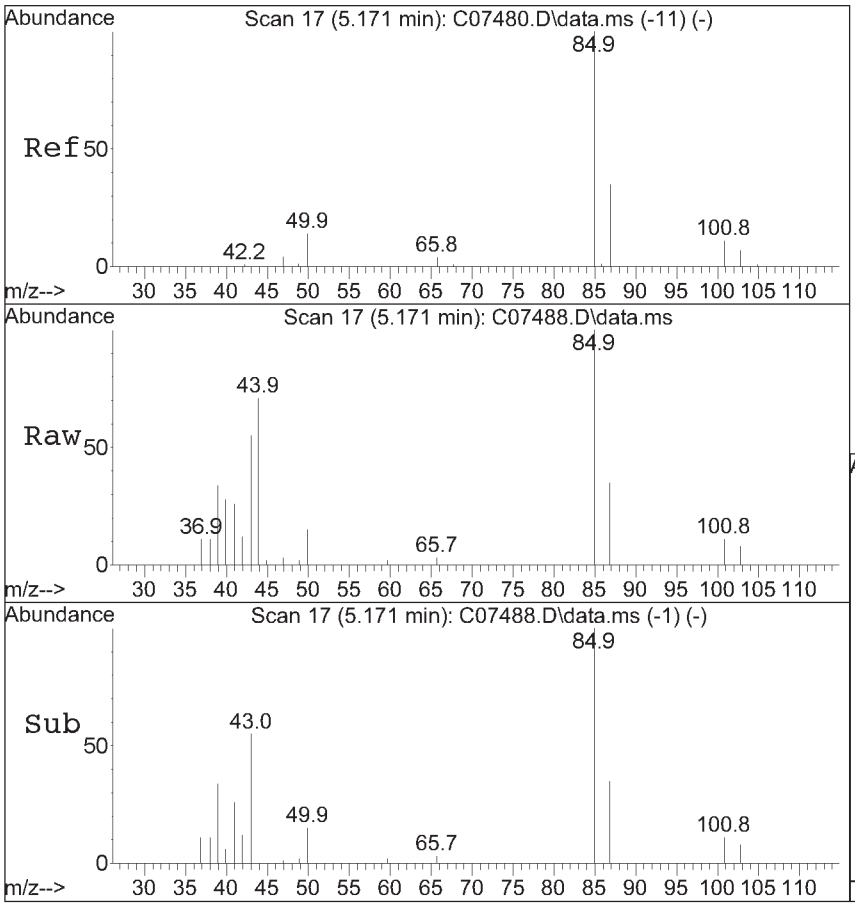
Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07488.D
Acq On : 10 Mar 2011 5:52 pm
Operator : KRL
Sample : sb25245-07 @ b1-ia2 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 11 15:46:31 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration



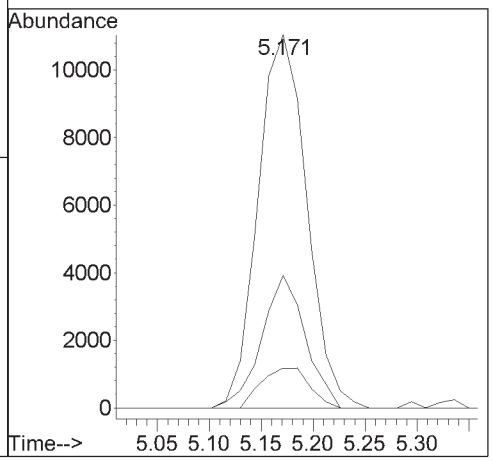


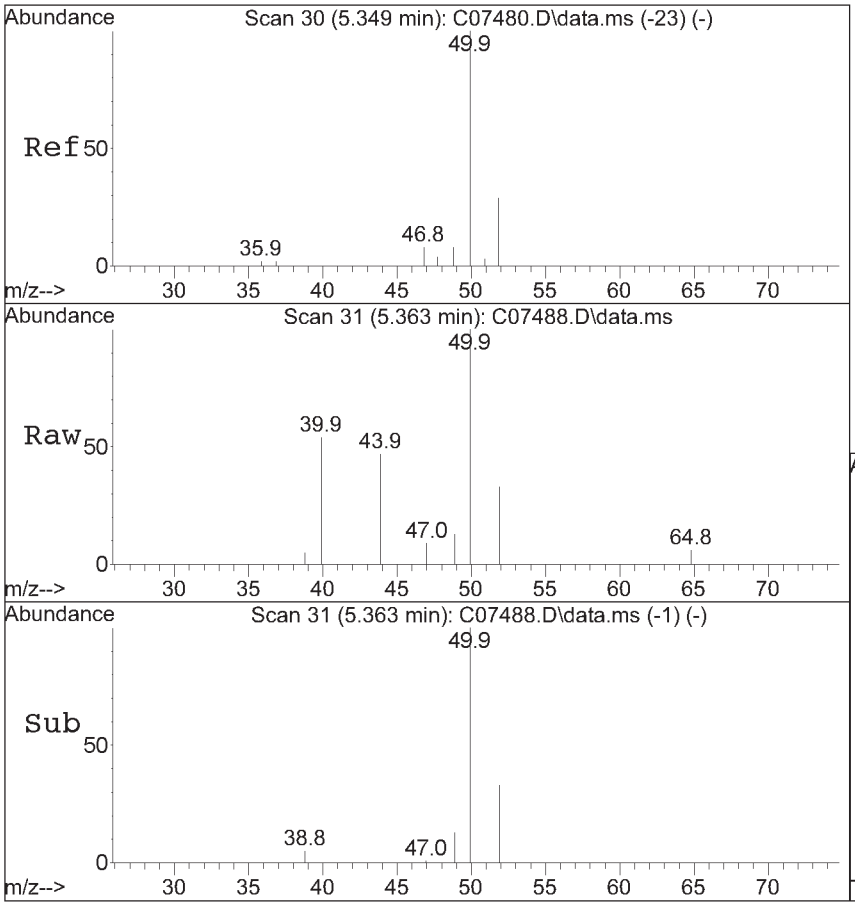


#3
DICHLORODIFLUOROMETHANE
Concen: 0.47 PPBv
RT: 5.175 min Scan# 17
Delta R.T. 0.001 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 85 Resp: 359555

Ion	Ratio	Lower	Upper
85	100		
87	31.9	0.0	0.0#
101	10.6	0.0	0.0#

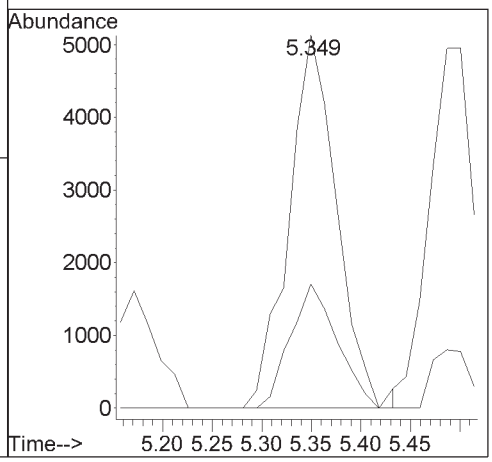


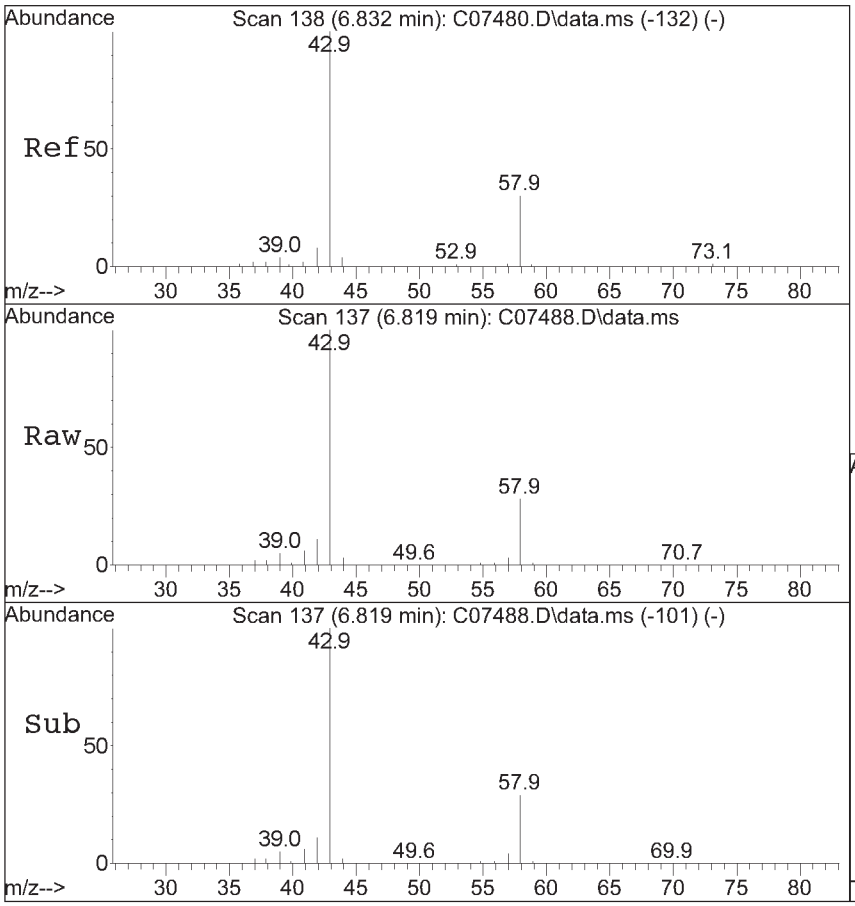


#4
CHLOROMETHANE
Concen: 0.43 PPBv
RT: 5.357 min Scan# 31
Delta R.T. -0.000 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 50 Resp: 170893

Ion	Ratio	Lower	Upper
50	100		
52	32.9	0.0	0.0#

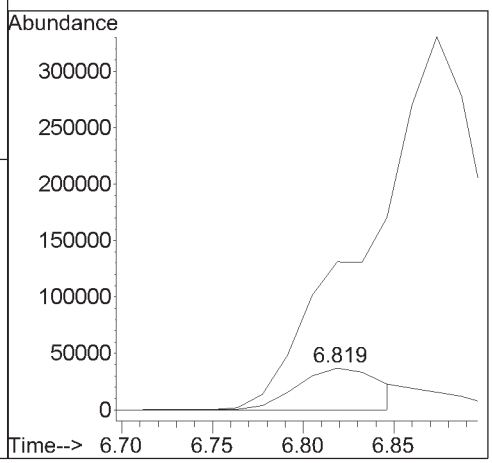


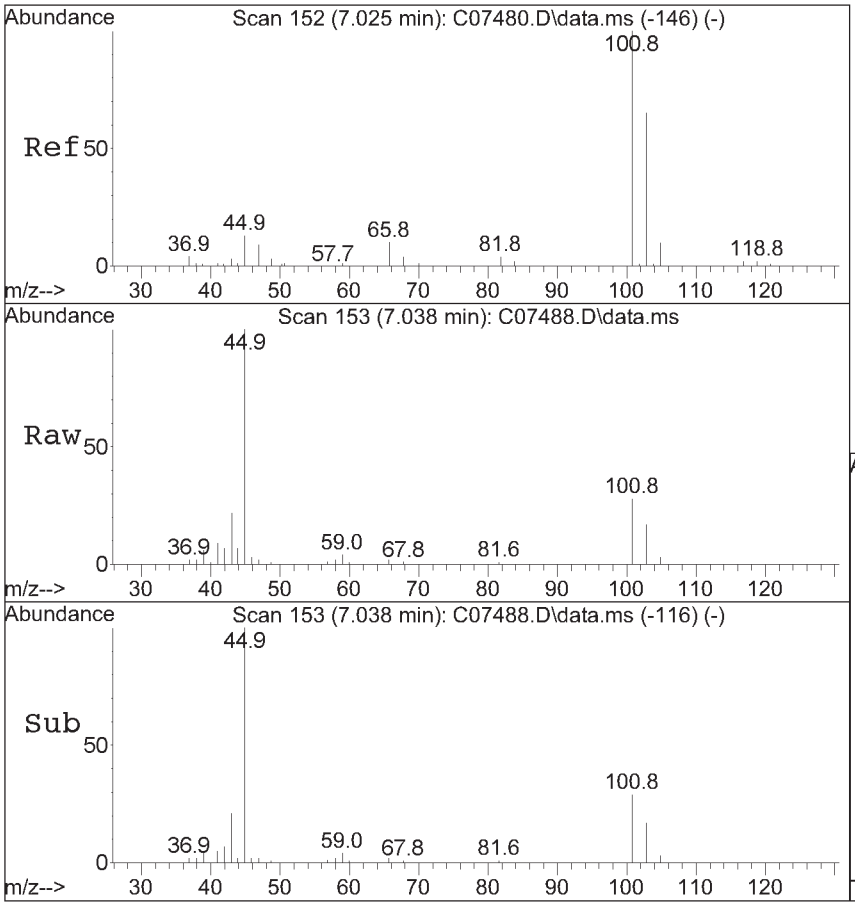


#11
ACETONE
Concen: 7.67 PPBv m
RT: 6.819 min Scan# 137
Delta R.T. -0.011 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 58 Resp: 1248785

Ion	Ratio	Lower	Upper
58	100		
43	0.0	0.0	0.0

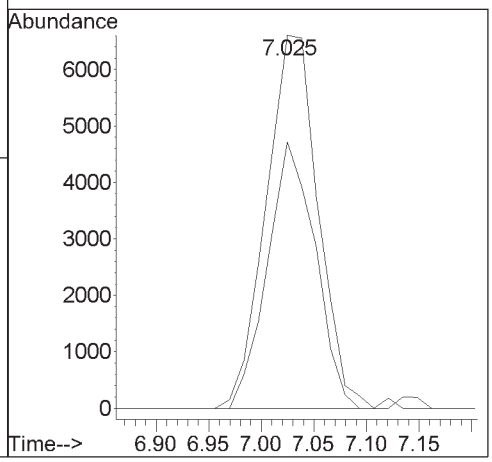


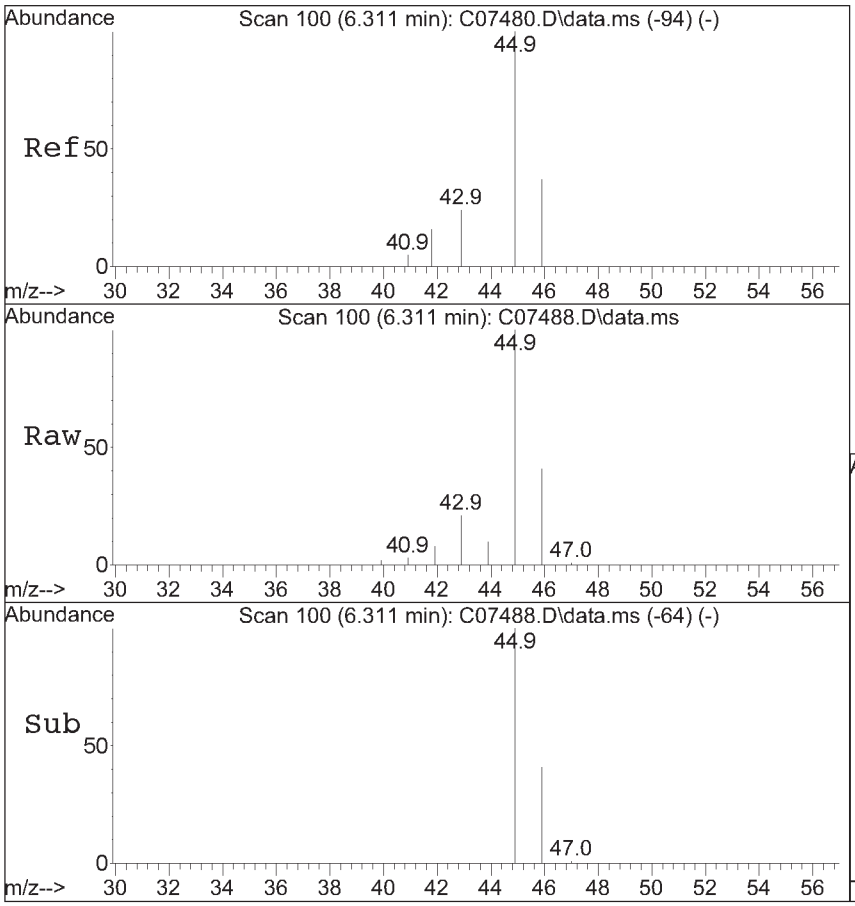


#12
TRICHLOROFLUOROMETHANE
Concen: 0.22 PPBv
RT: 7.036 min Scan# 153
Delta R.T. 0.004 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion:101 Resp: 227745

Ion	Ratio	Lower	Upper
101	100		
103	65.6	0.0	0.0#

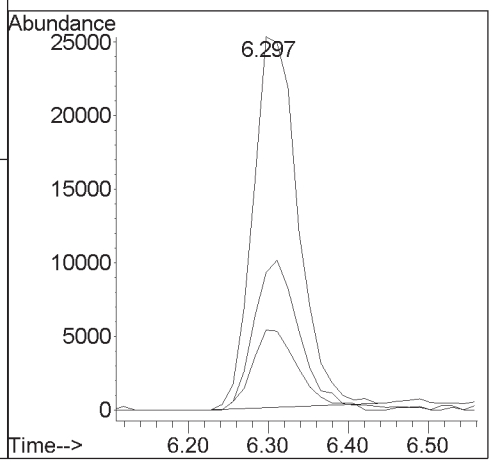


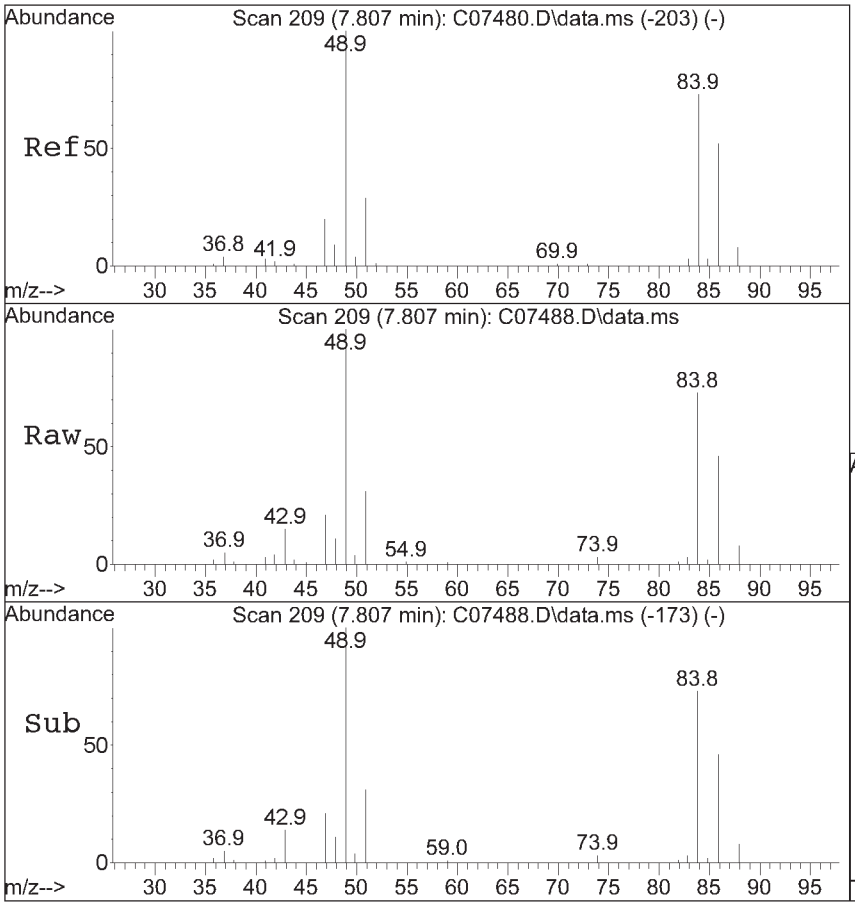


#13
ETHANOL
Concen: 10.38 PPBv
RT: 6.311 min Scan# 100
Delta R.T. -0.006 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 45 Resp: 989126

Ion	Ratio	Lower	Upper
45	100		
46	41.1	0.0	0.0#
43	0.0	0.0	0.0

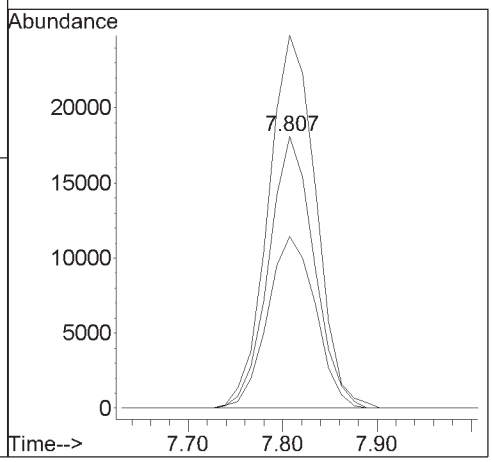


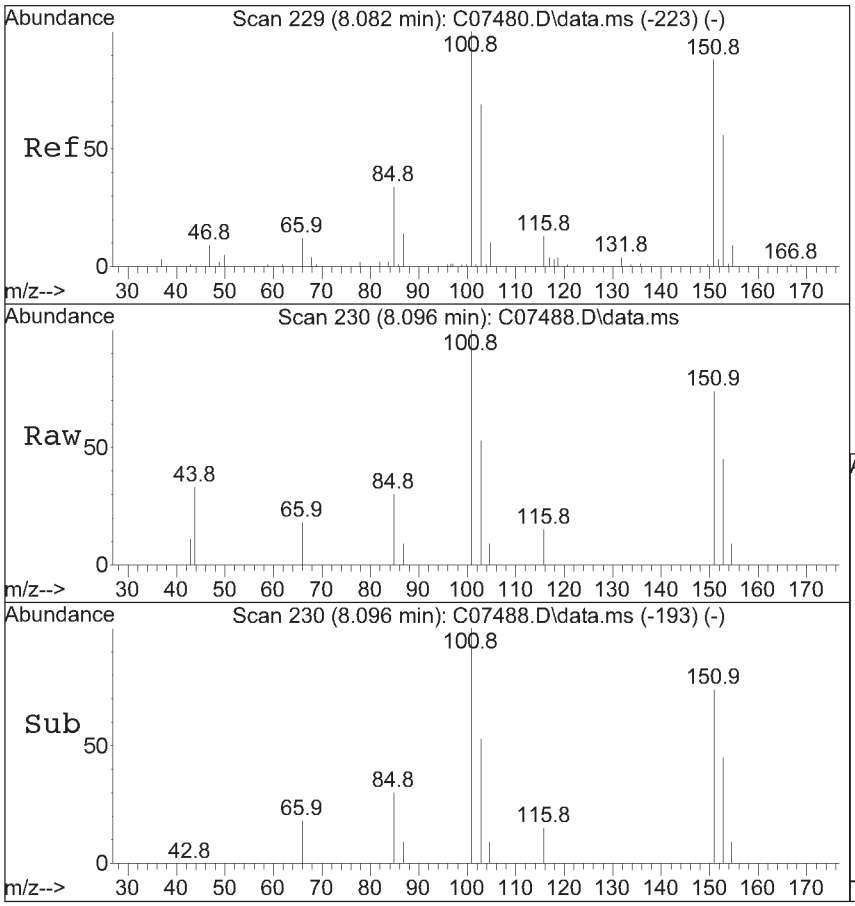


#17
METHYLENE CHLORIDE
Concen: 2.04 PPBv
RT: 7.814 min Scan# 209
Delta R.T. 0.002 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 84 Resp: 605424

Ion	Ratio	Lower	Upper
84	100		
49	143.9	0.0	0.0#
86	66.9	0.0	0.0#

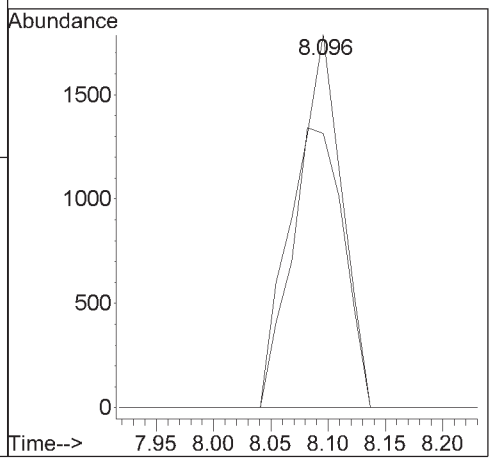


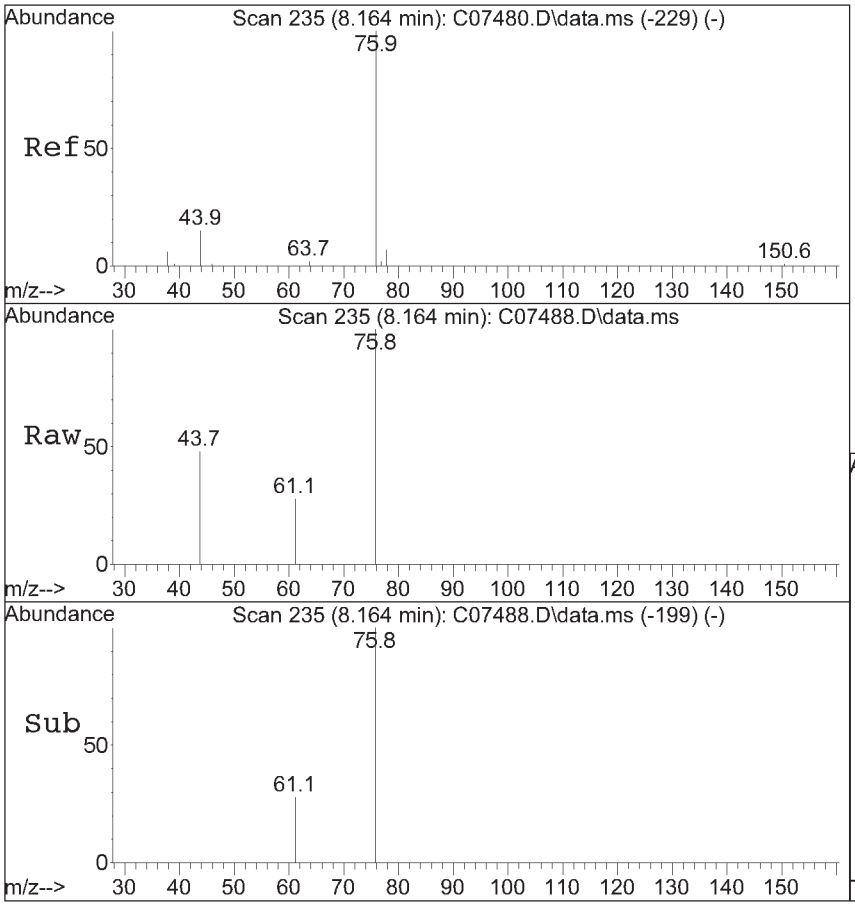


#18
FREON 113
Concen: 0.08 PPBv
RT: 8.100 min Scan# 230
Delta R.T. 0.012 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion:101 Resp: 51750

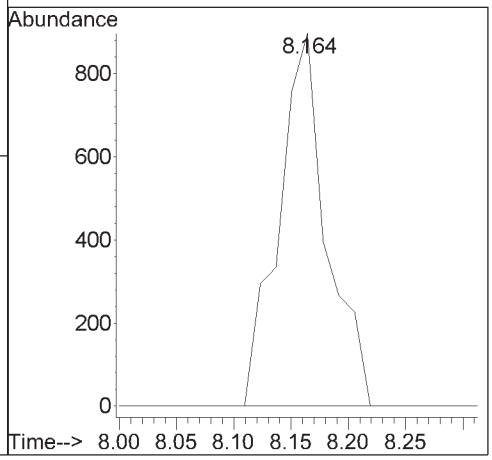
Ion	Ratio	Lower	Upper
101	100		
151	83.4	0.0	0.0#

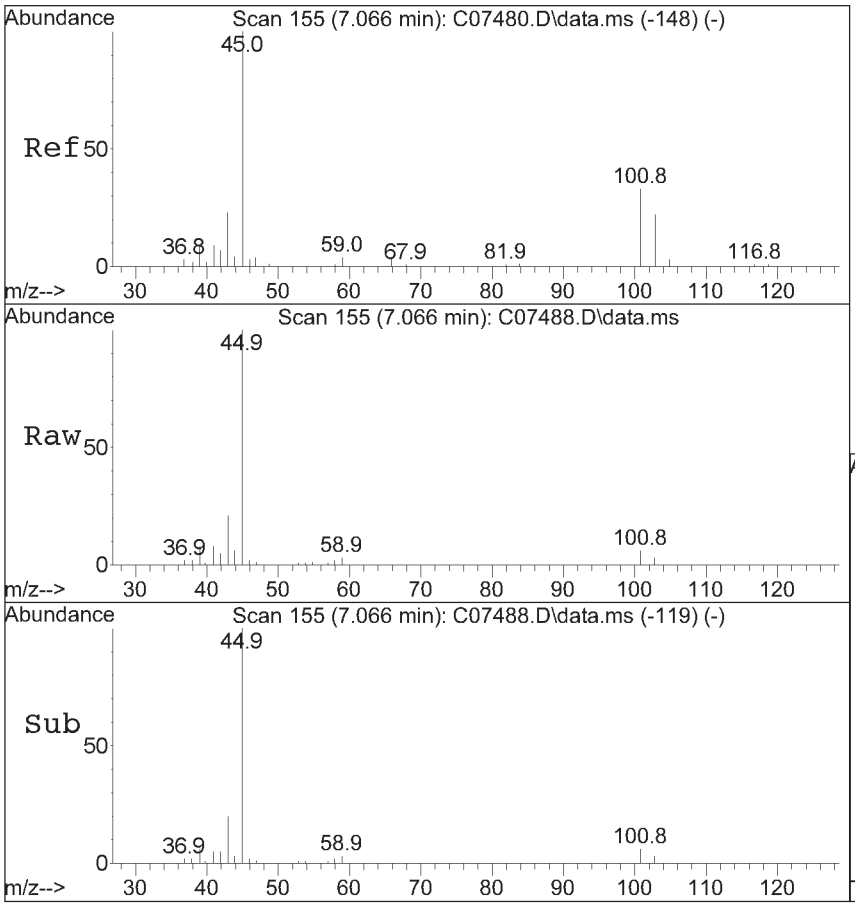




#19
CARBON DISULFIDE
Concen: 0.04 PPBv
RT: 8.165 min Scan# 235
Delta R.T. -0.001 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 76 Resp: 26095

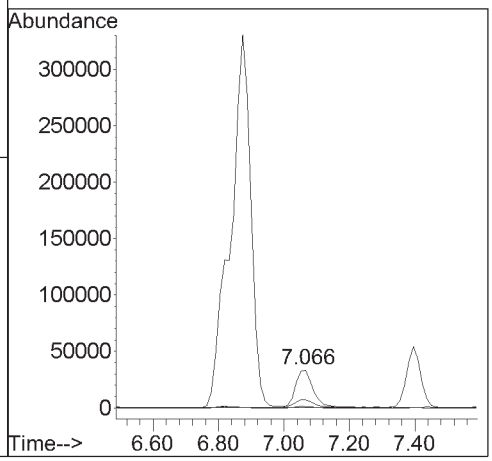


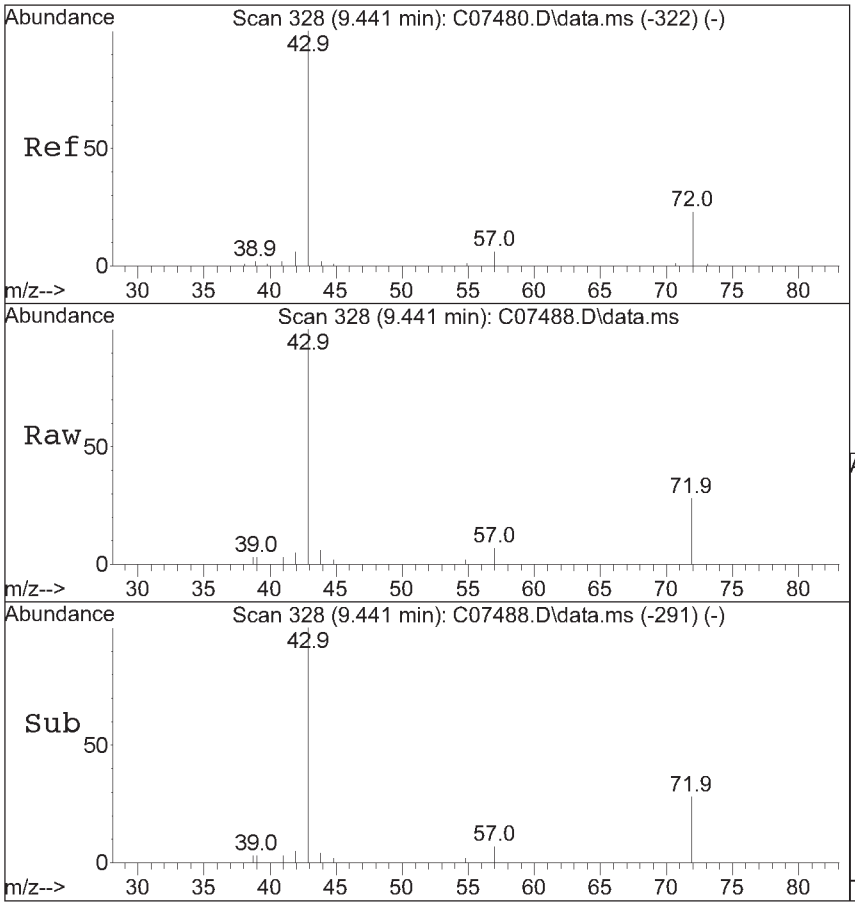


#24
IPA
Concen: 2.53 PPBv
RT: 7.065 min Scan# 155
Delta R.T. -0.001 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 45 Resp: 1270847

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	0.0
59	3.5	0.0	0.0#

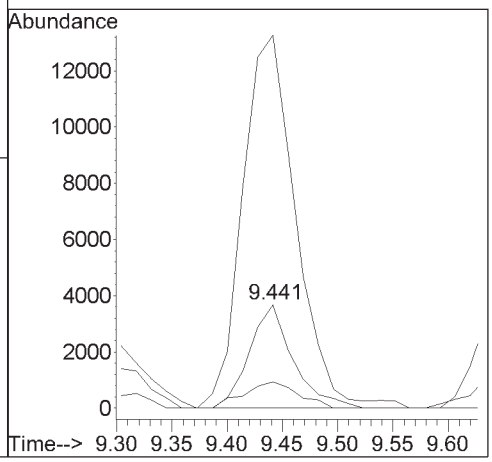


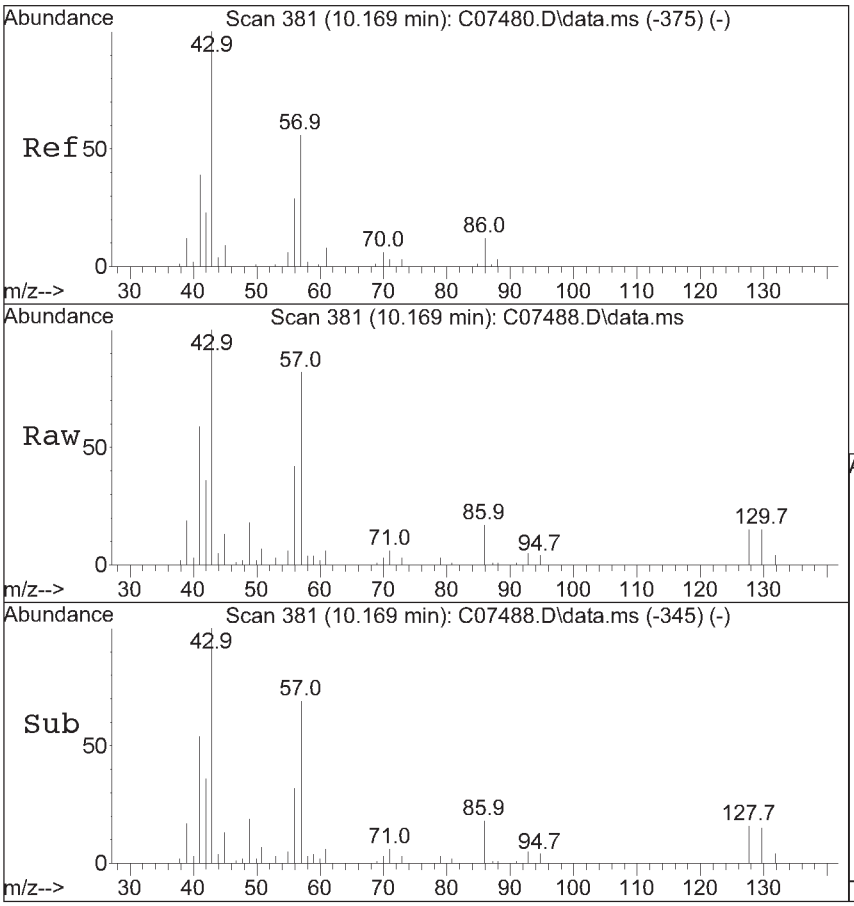


#25
2-BUTANONE (MEK)
Concen: 0.89 PPBv
RT: 9.444 min Scan# 328
Delta R.T. 0.004 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 72 Resp: 101648

Ion	Ratio	Lower	Upper
72	100		
57	0.0	0.0	0.0
43	437.2	0.0	0.0#

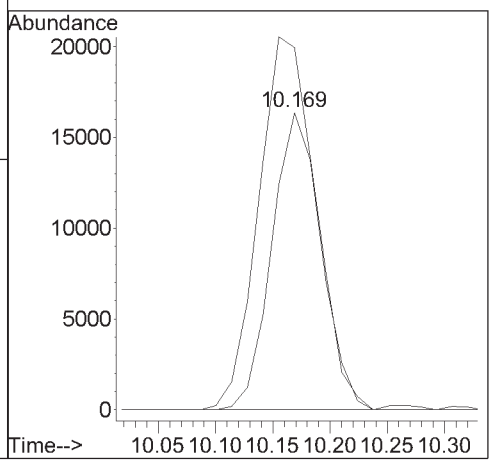


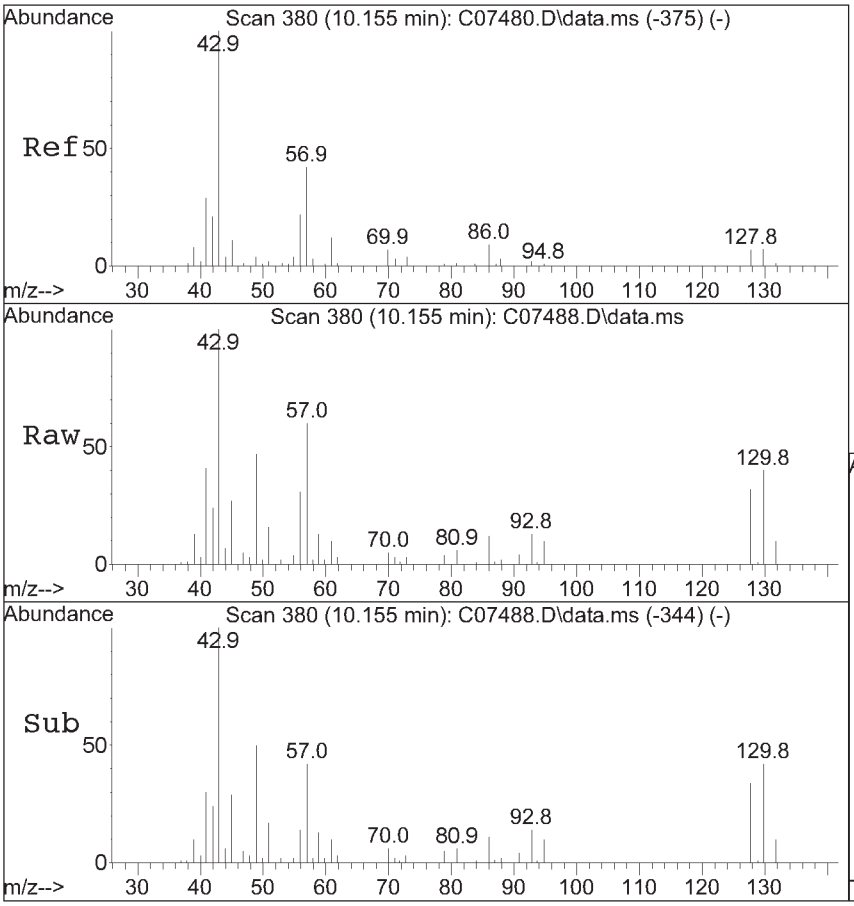


#27
HEXANE
Concen: 1.26 PPBv
RT: 10.176 min Scan# 381
Delta R.T. 0.002 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 57 Resp: 488371

Ion	Ratio	Lower	Upper
57	100		
43	145.8	0.0	0.0#

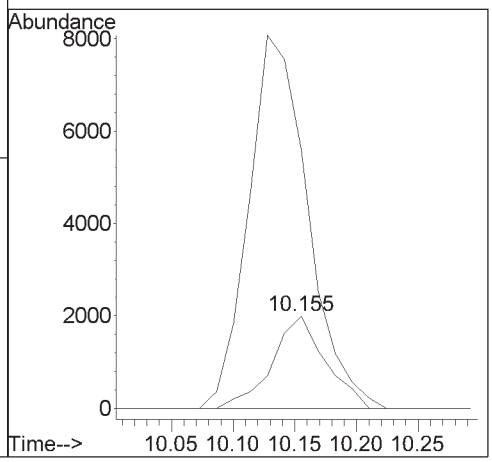


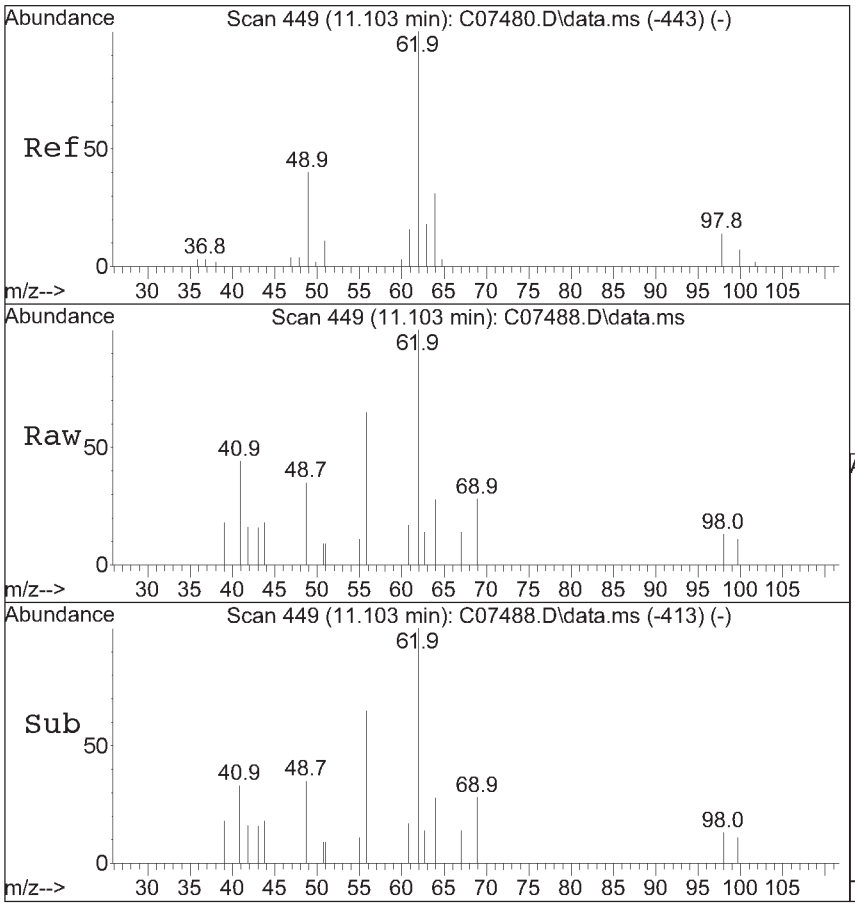


#28
ETHYL ACETATE
Concen: 0.77 PPBv
RT: 10.158 min Scan# 380
Delta R.T. -0.002 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 61 Resp: 59698

Ion	Ratio	Lower	Upper
61	100		
45	449.7	0.0	0.0#

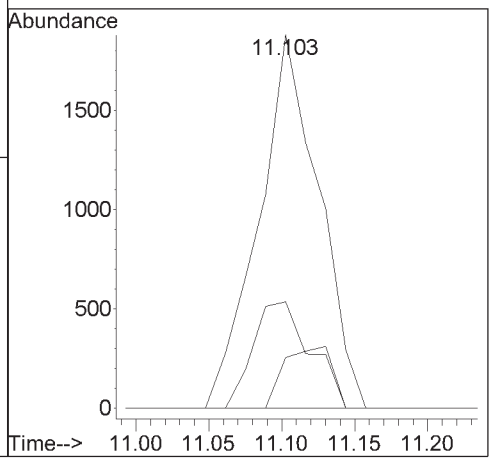


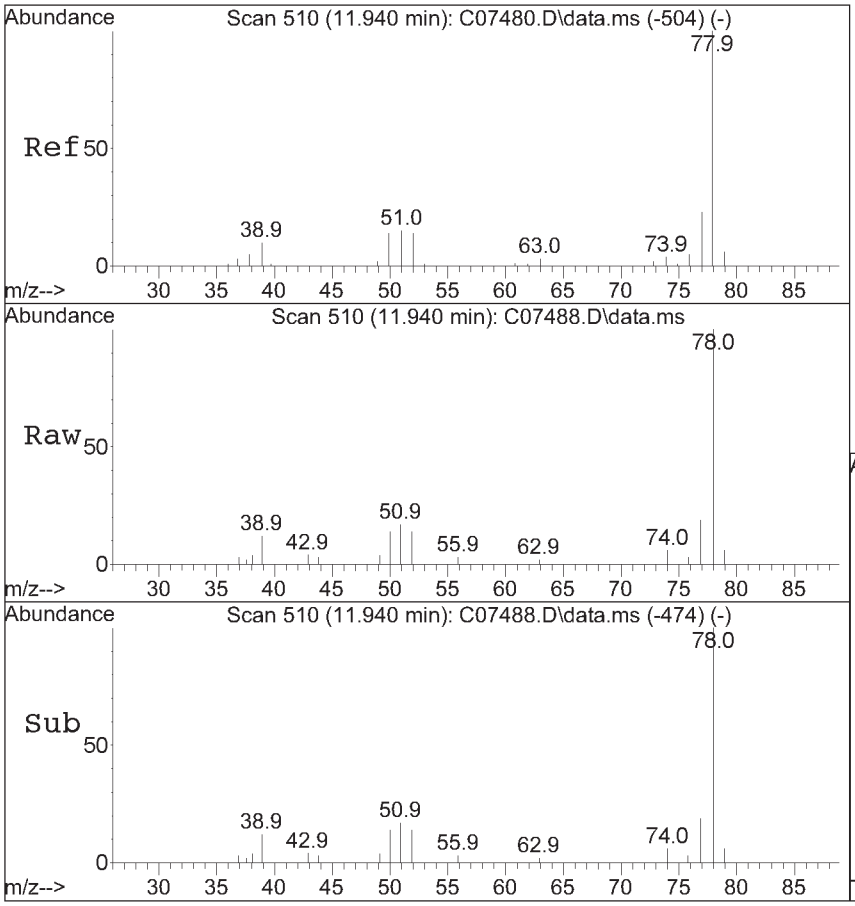


#31
1,2-DICHLOROETHANE
Concen: 0.20 PPBv
RT: 11.109 min Scan# 449
Delta R.T. 0.001 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 62 Resp: 53818

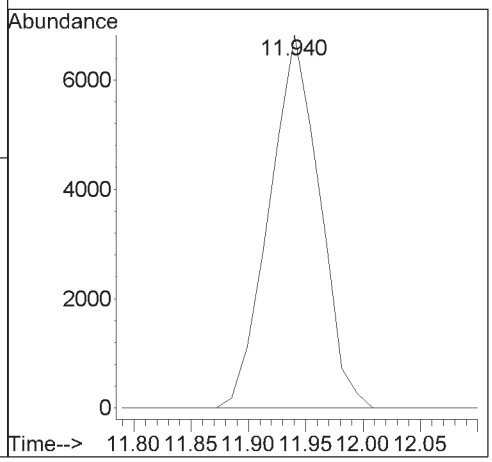
Ion	Ratio	Lower	Upper
62	100		
64	27.3	0.0	0.0#
98	0.0	0.0	0.0

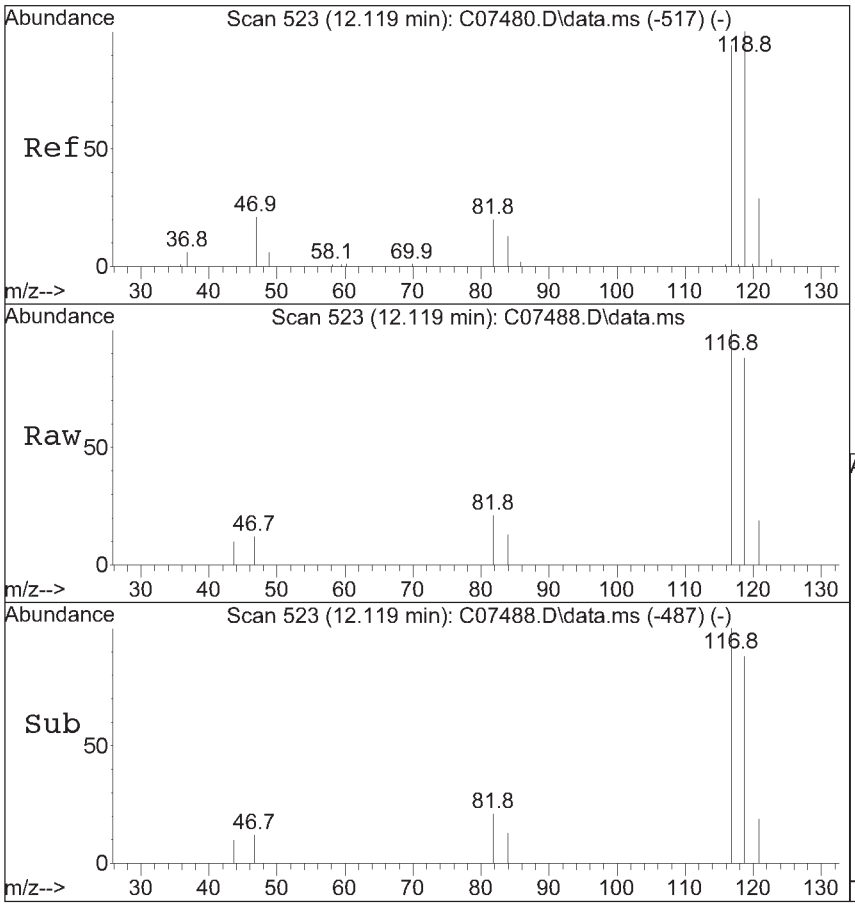




#33
BENZENE
Concen: 0.26 PPBv
RT: 11.945 min Scan# 510
Delta R.T. -0.001 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 78 Resp: 207961

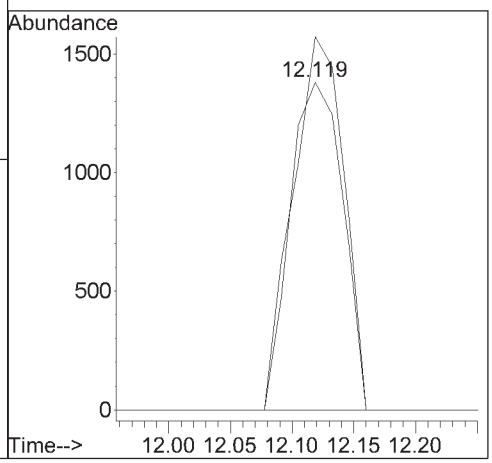


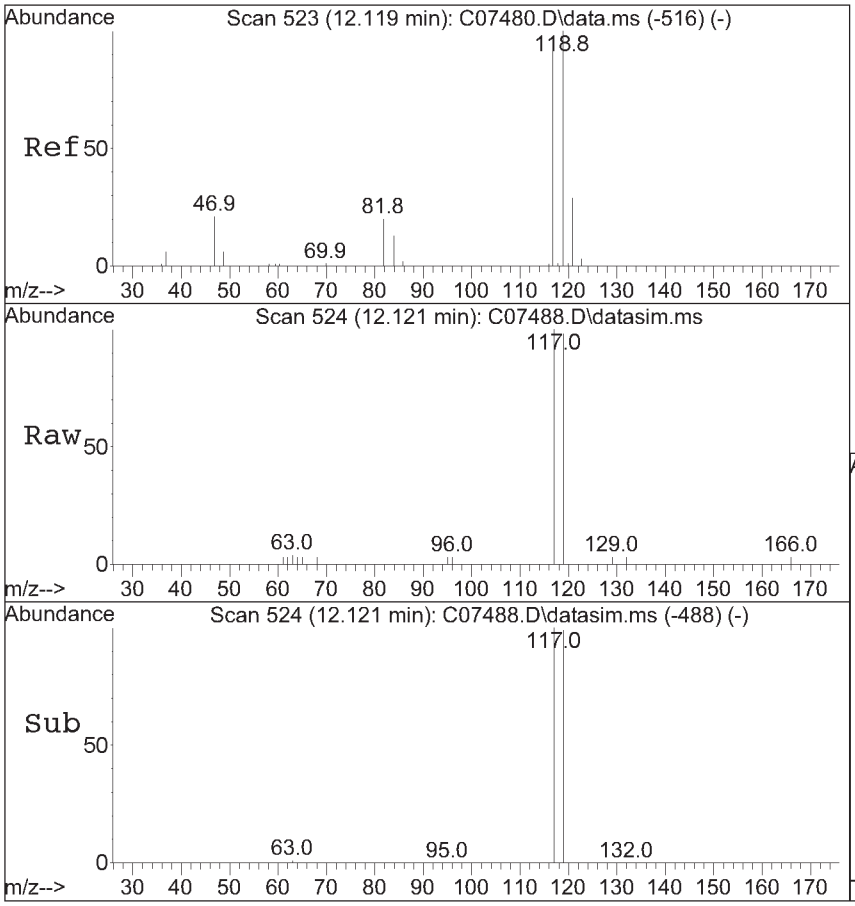


#34
CARBON TETRACHLORIDE
Concen: 0.07 PPBv
RT: 12.125 min Scan# 523
Delta R.T. 0.003 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion:119 Resp: 41124

Ion	Ratio	Lower	Upper
119	100		
117	110.1	0.0	0.0#

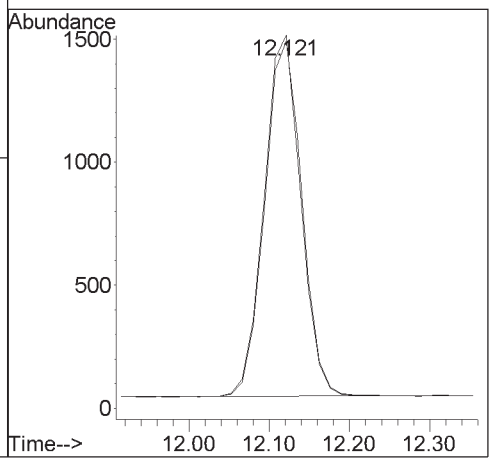


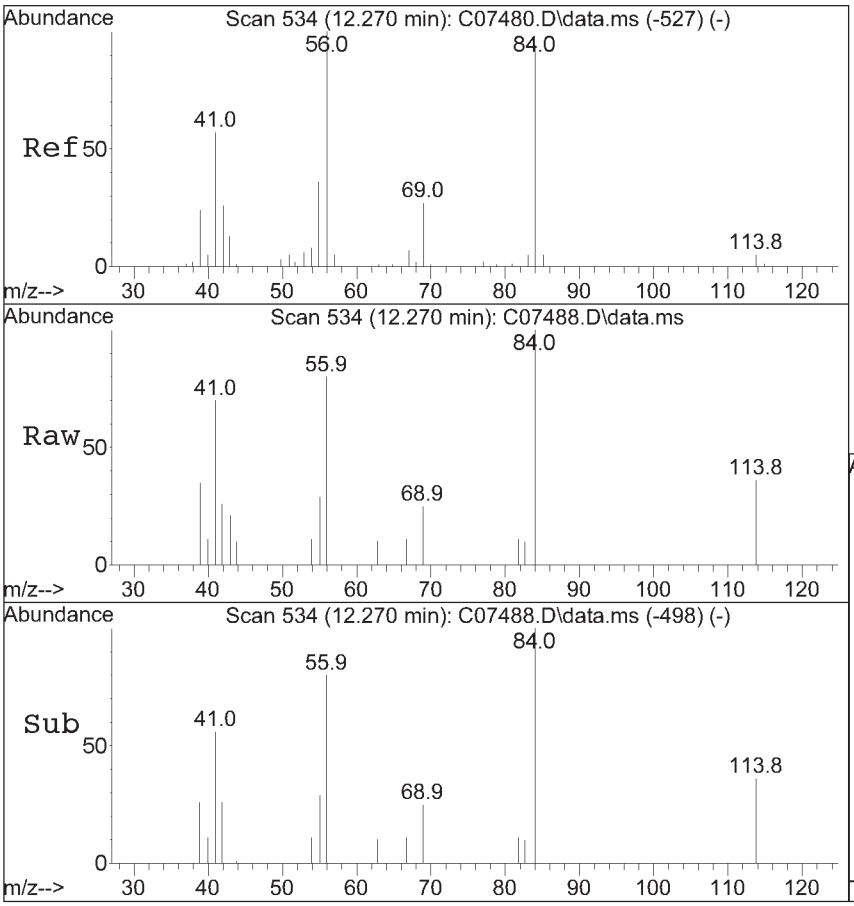


#35
CARBON TETRACHLORIDE (SIM)
Concen: 0.06 PPBv
RT: 12.123 min Scan# 524
Delta R.T. 0.001 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion:119 Resp: 46189

Ion	Ratio	Lower	Upper
119	100		
117	100.3	0.0	0.0#

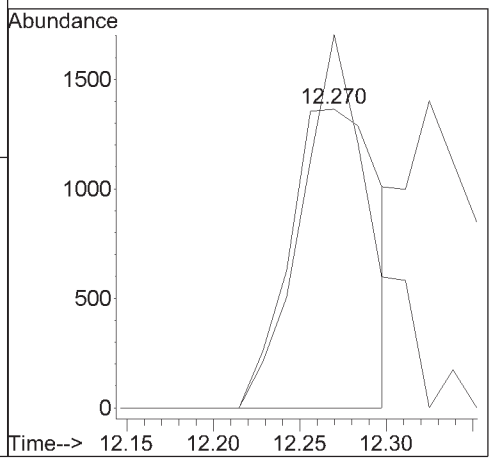


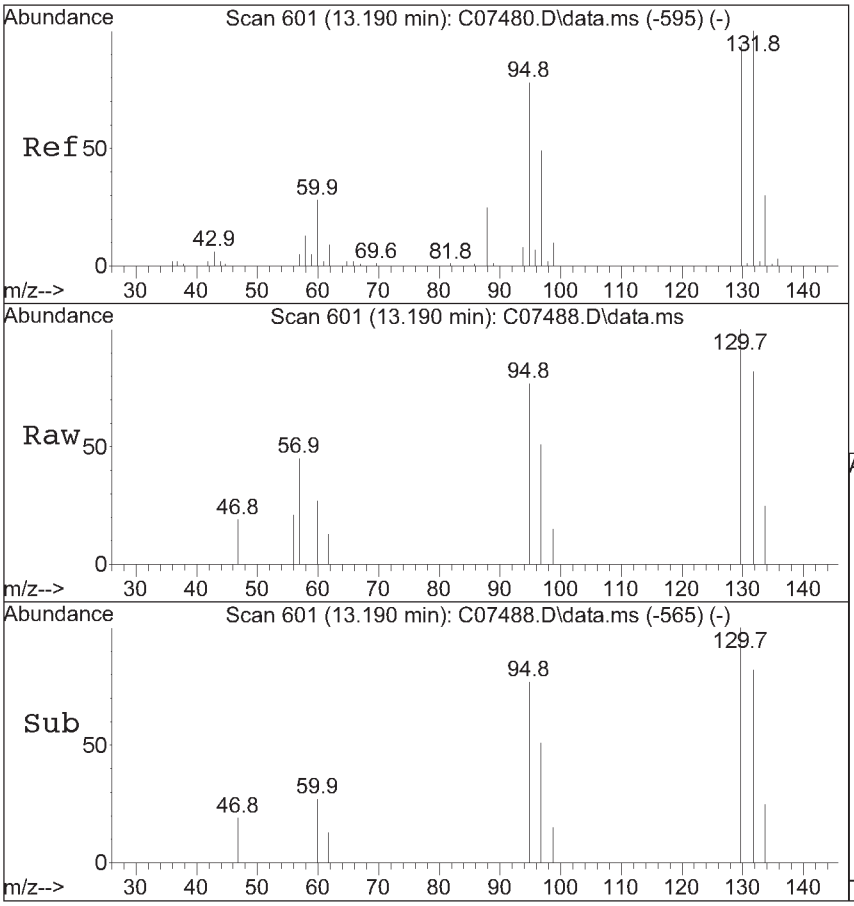


#36
CYCLOHEXANE
Concen: 0.13 PPBv m
RT: 12.270 min Scan# 534
Delta R.T. -0.000 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 56 Resp: 50744

Ion	Ratio	Lower	Upper
56	100		
84	0.0	0.0	0.0

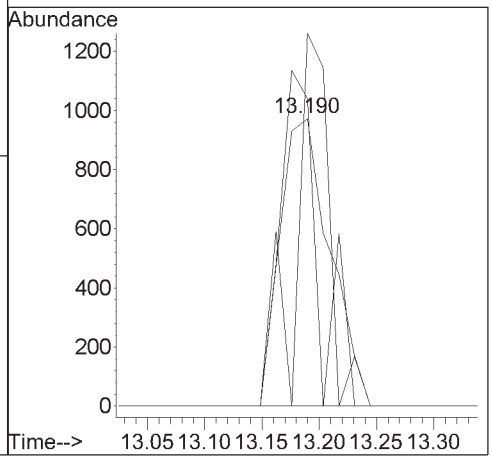


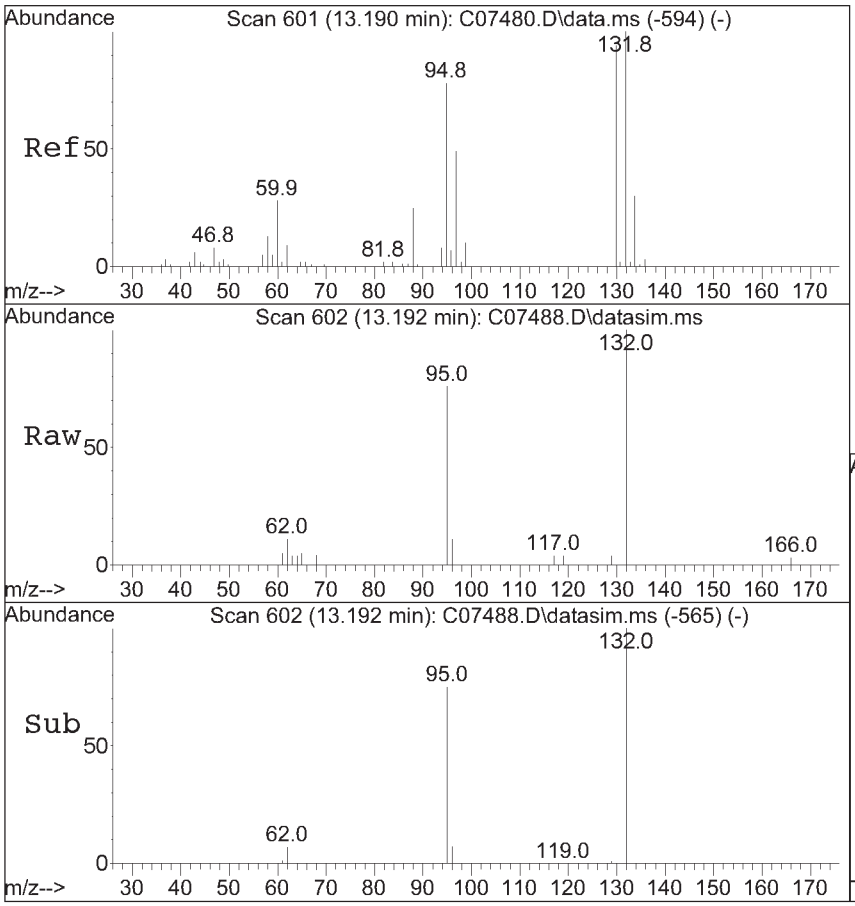


#40
TRICHLOROETHENE
Concen: 0.08 PPBv
RT: 13.190 min Scan# 601
Delta R.T. -0.001 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 95 Resp: 29409

Ion	Ratio	Lower	Upper
95	100		
132	90.7	0.0	0.0#
130	84.7	0.0	0.0#

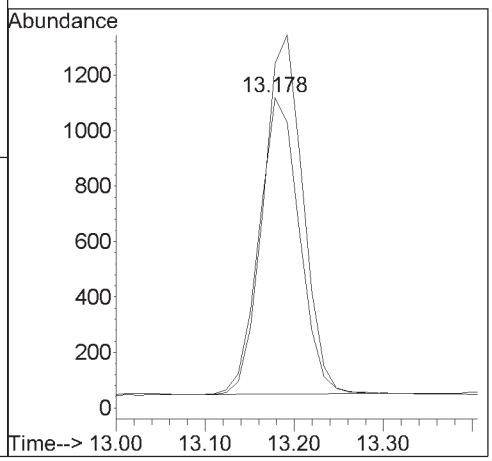


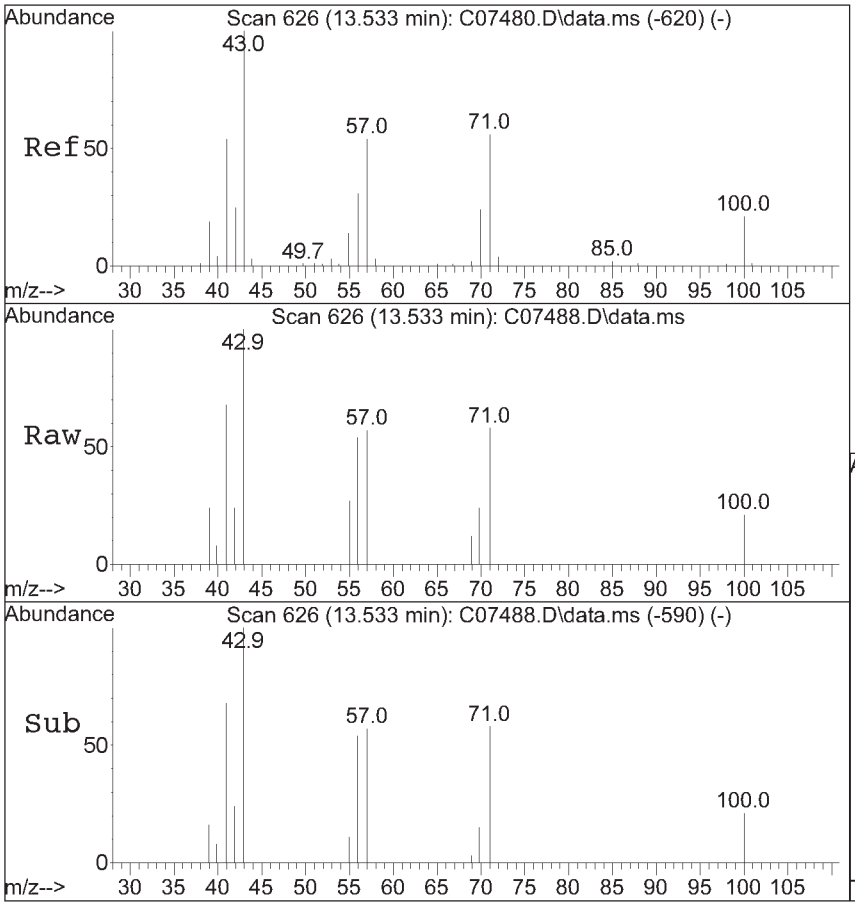


#41
TRICHLOROETHENE (SIM)
Concen: 0.08 PPBv
RT: 13.188 min Scan# 602
Delta R.T. 0.000 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 95 Resp: 33463

Ion	Ratio	Lower	Upper
95	100		
132	118.6	0.0	0.0#

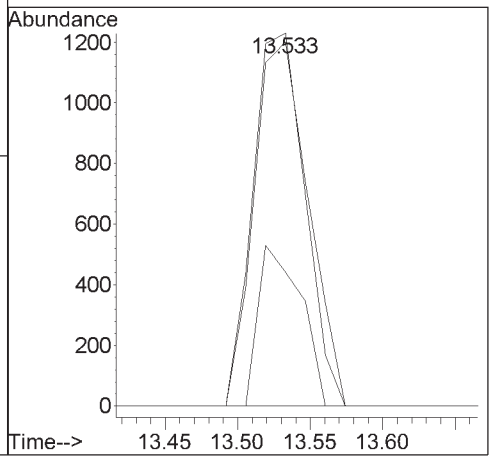


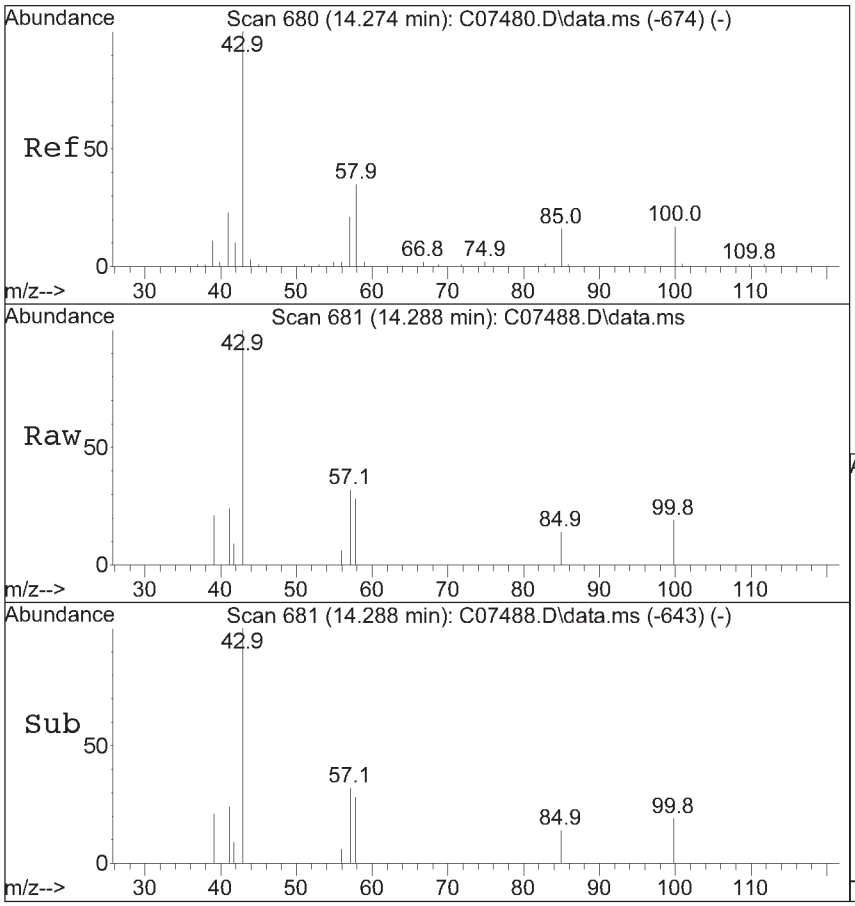


#43
HEPTANE
Concen: 0.13 PPBv m
RT: 13.533 min Scan# 626
Delta R.T. -0.002 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 57 Resp: 31313

Ion	Ratio	Lower	Upper
57	100		
71	0.0	0.0	0.0
100	0.0	0.0	0.0

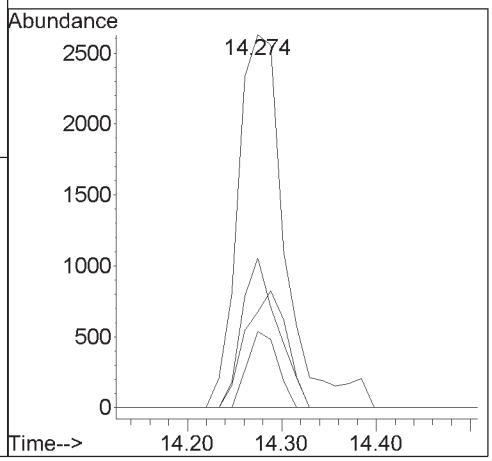


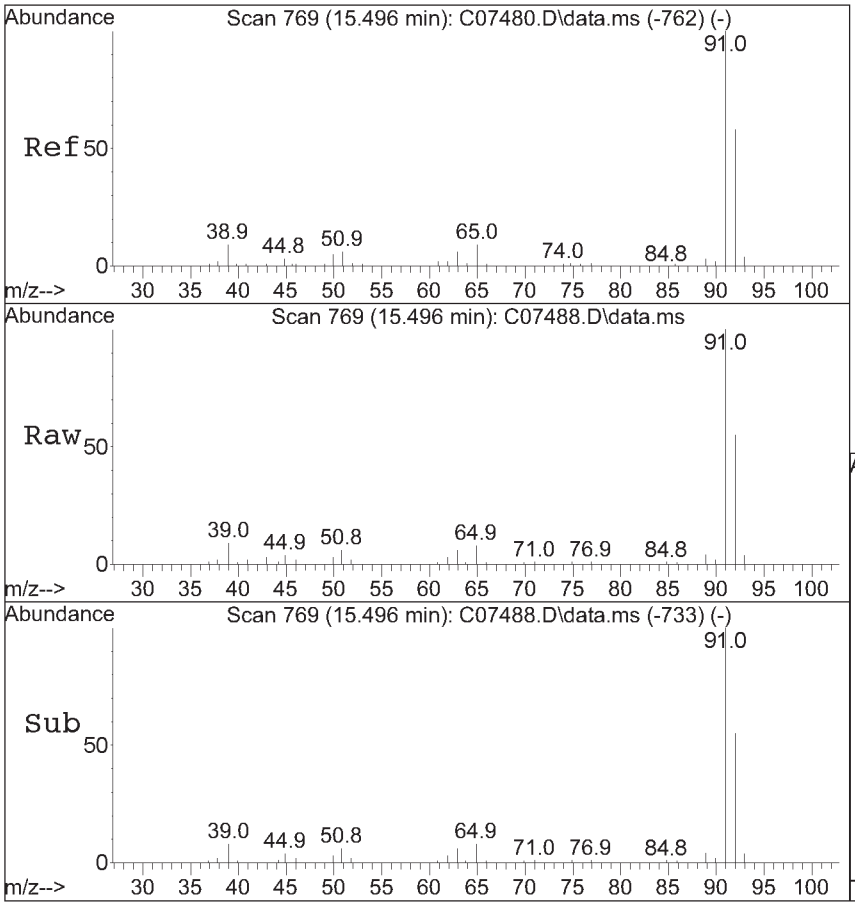


#44
MIBK
Concen: 0.16 PPBv
RT: 14.283 min Scan# 681
Delta R.T. 0.010 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 43 Resp: 91747

Ion	Ratio	Lower	Upper
43	100		
58	30.5	0.0	0.0#
57	27.3	0.0	0.0#
100	0.0	0.0	0.0

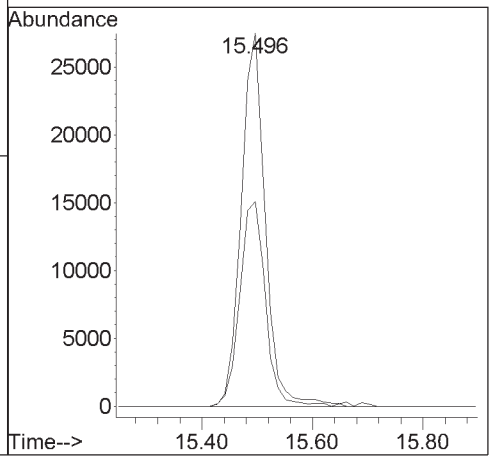


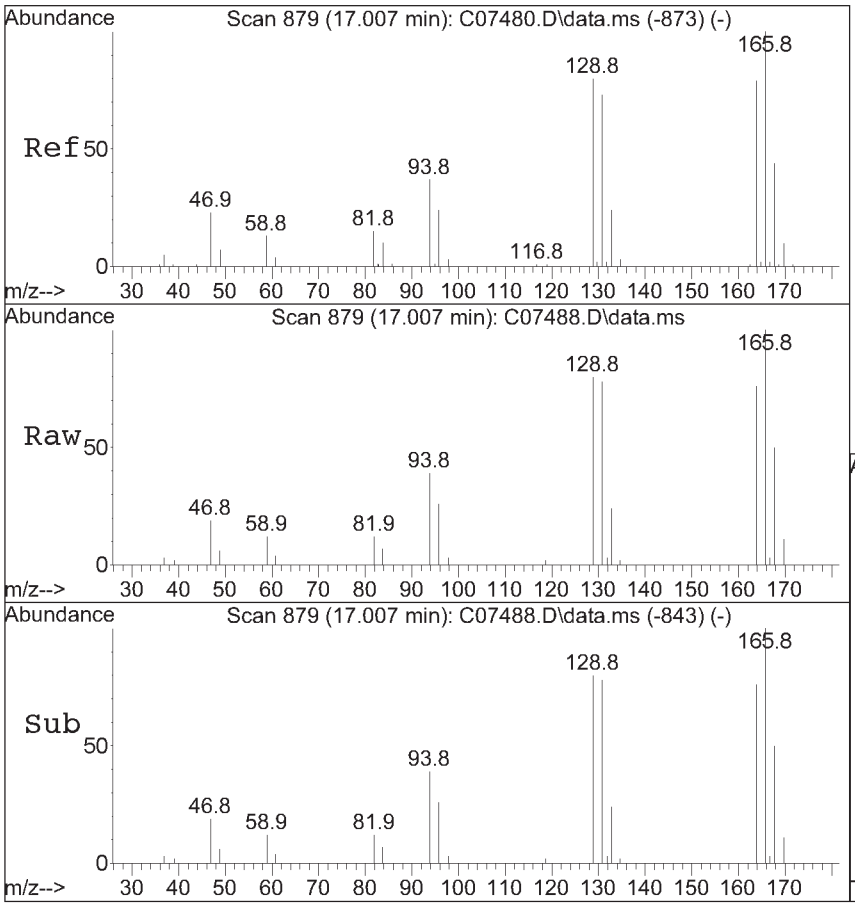


#48
TOLUENE
Concen: 0.90 PPBv
RT: 15.498 min Scan# 769
Delta R.T. 0.002 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 91 Resp: 831464

Ion	Ratio	Lower	Upper
91	100		
92	57.9	0.0	0.0#

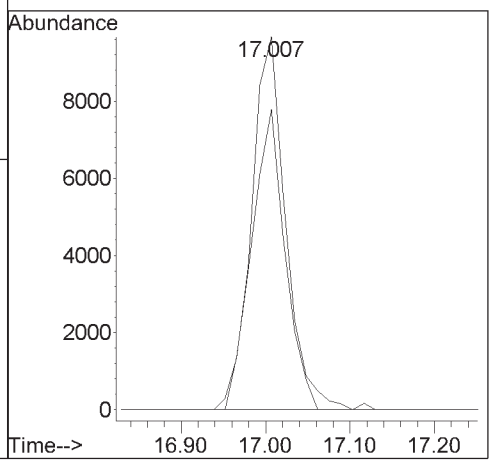


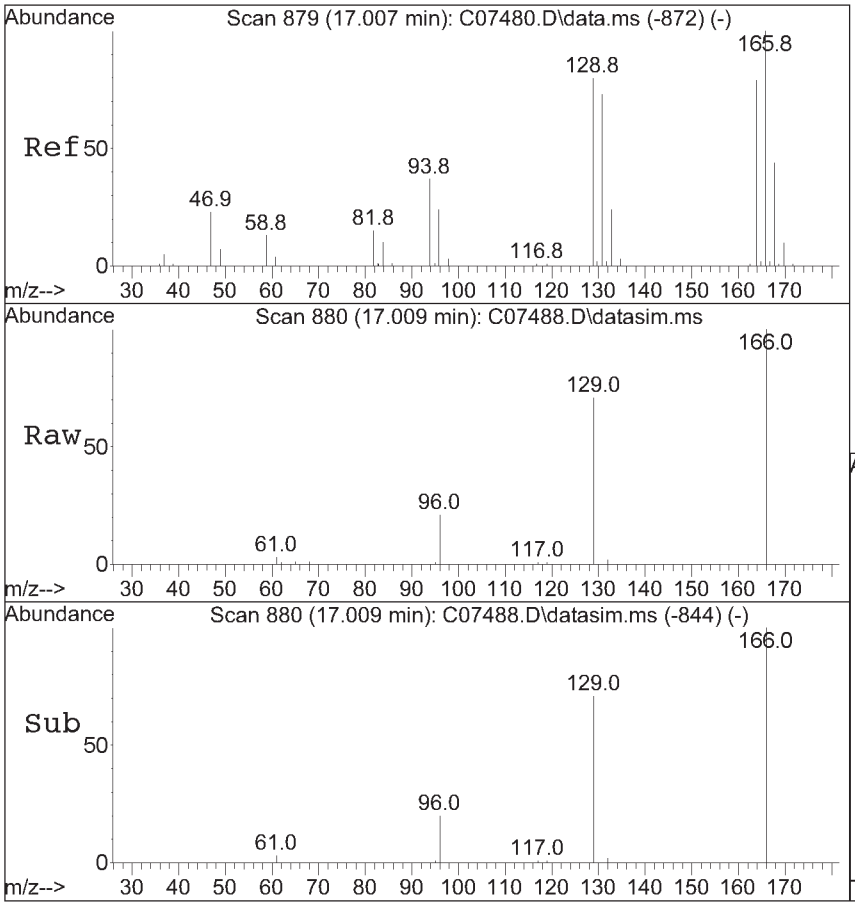


#52
TETRACHLOROETHENE
Concen: 0.57 PPBv
RT: 17.008 min Scan# 879
Delta R.T. 0.000 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion:166 Resp: 274419

Ion	Ratio	Lower	Upper
166	100		
129	78.7	0.0	0.0#
138	0.0	0.0	0.0

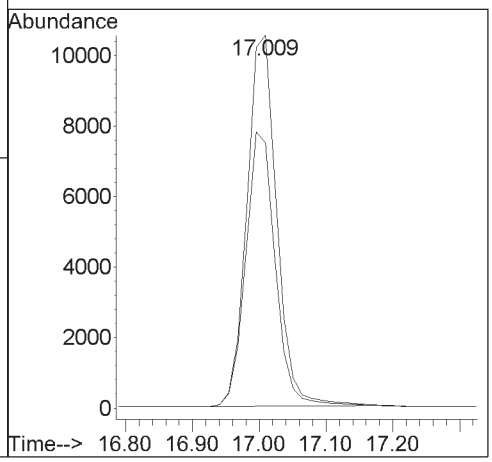


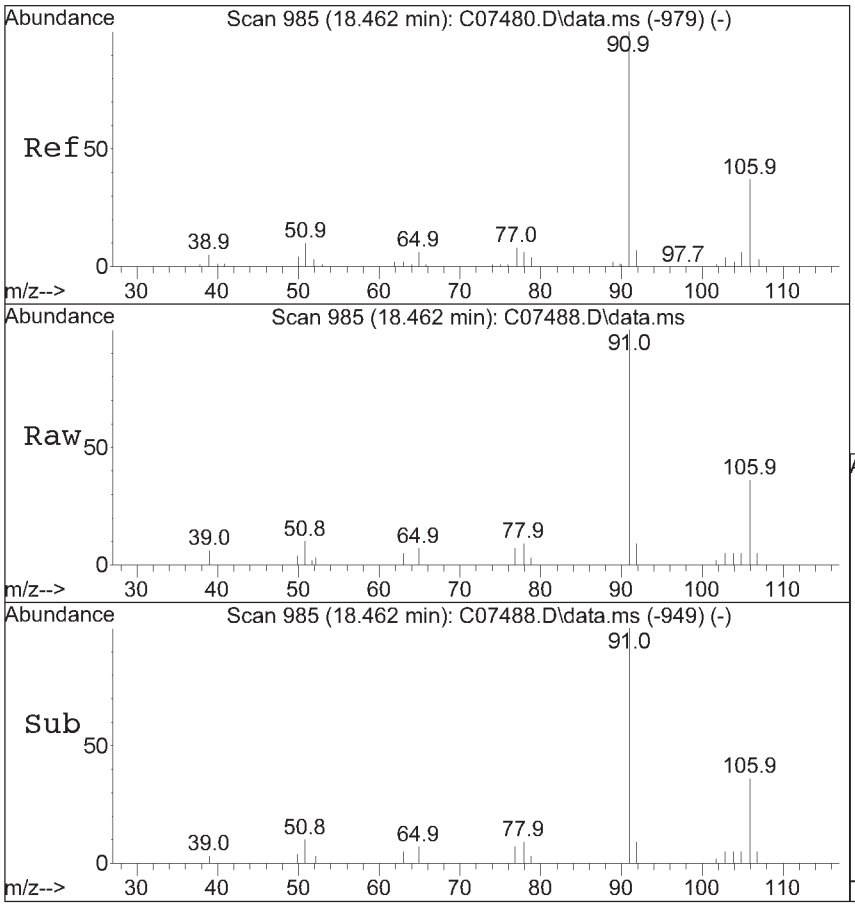


#53
TETRACHLOROETHENE (SIM)
Concen: 0.59 PPBv
RT: 17.009 min Scan# 880
Delta R.T. -0.000 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion:166 Resp: 326800

Ion	Ratio	Lower	Upper
166	100		
129	73.0	0.0	0.0#

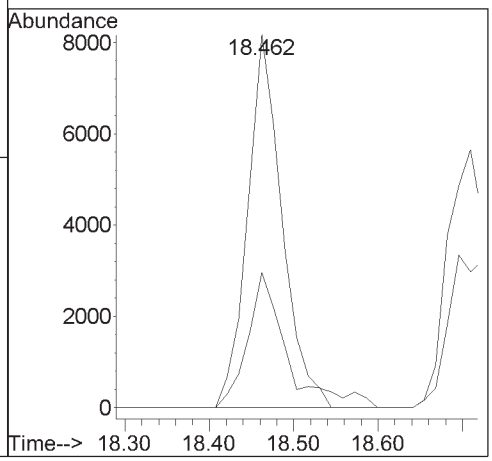


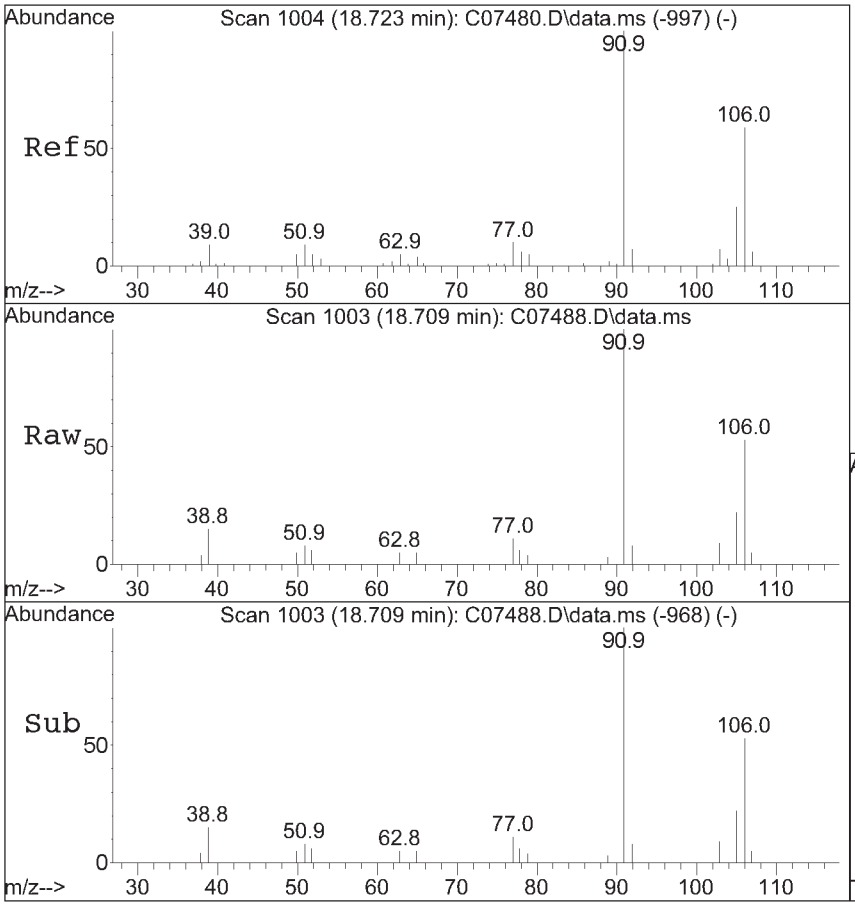


#57
ETHYLBENZENE
Concen: 0.21 PPBv
RT: 18.469 min Scan# 985
Delta R.T. 0.000 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion: 91 Resp: 240880

Ion	Ratio	Lower	Upper
91	100		
106	36.0	0.0	0.0#

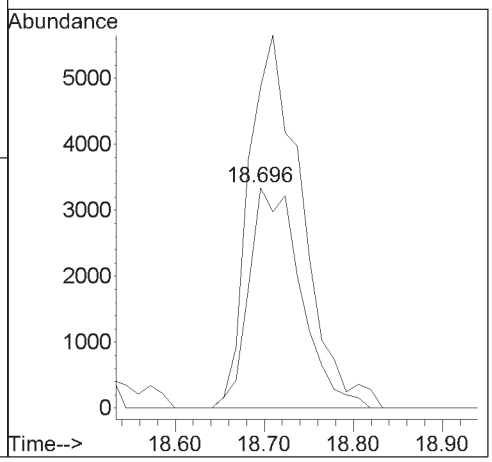


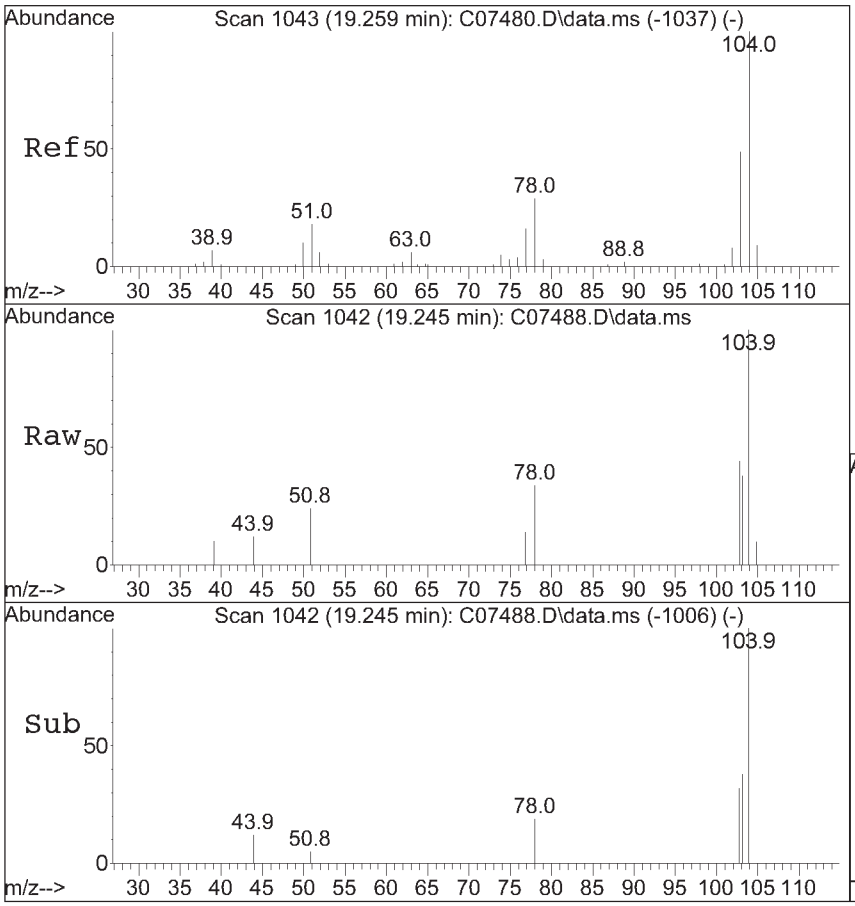


#58
M/P-XYLENE
Concen: 0.25 PPBv
RT: 18.707 min Scan# 1003
Delta R.T. -0.019 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion:106 Resp: 135278

Ion	Ratio	Lower	Upper
106	100		
91	173.5	0.0	0.0#

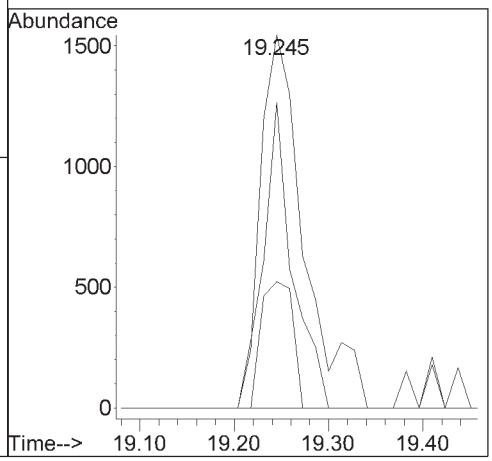


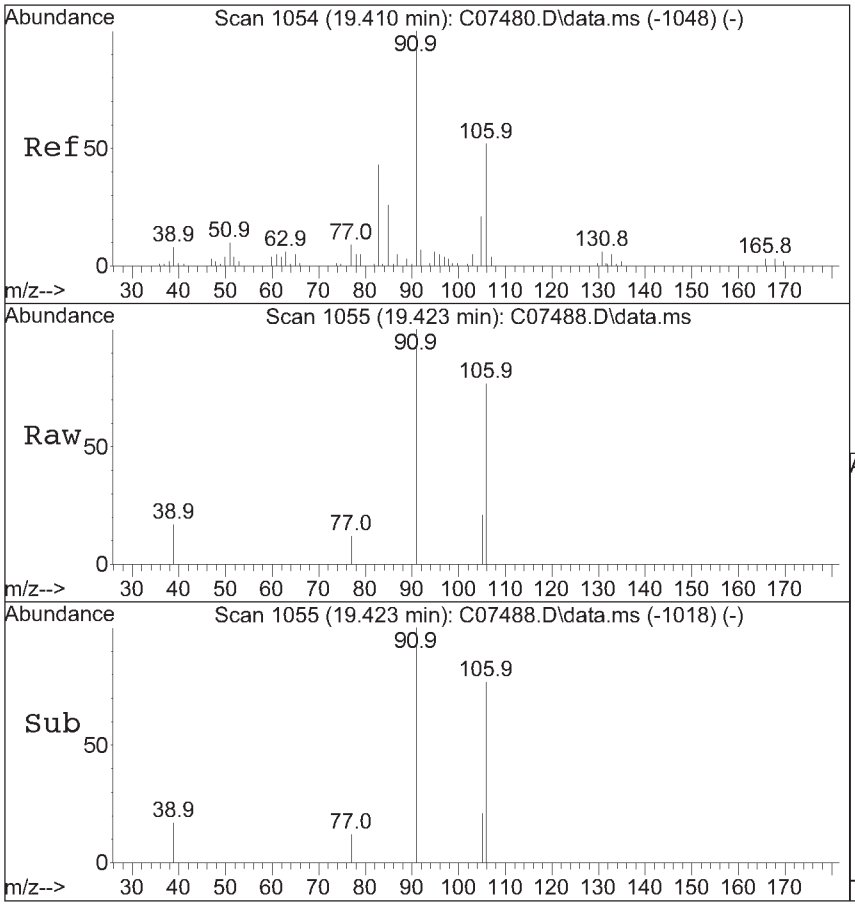


#60
STYRENE
Concen: 0.08 PPBv
RT: 19.252 min Scan# 1042
Delta R.T. -0.004 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion:104 Resp: 49611

Ion	Ratio	Lower	Upper
104	100		
103	55.6	0.0	0.0#
78	0.0	0.0	0.0

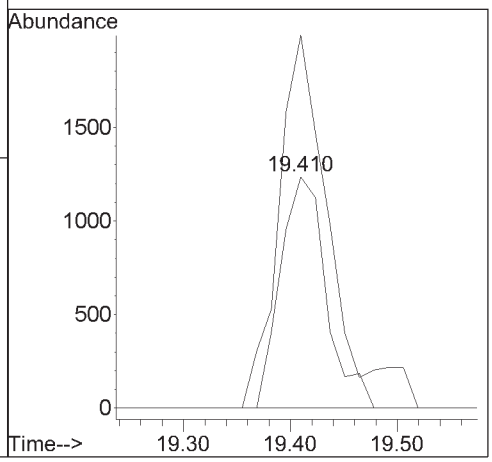


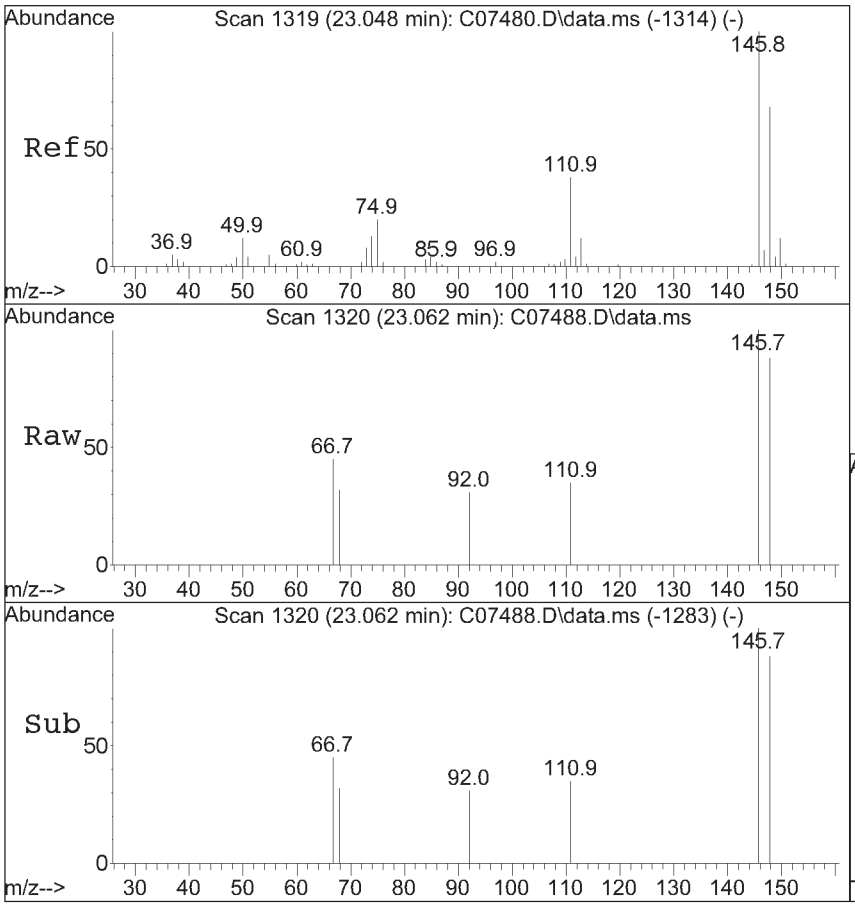


#61
O-XYLENE
Concen: 0.07 PPBv
RT: 19.418 min Scan# 1055
Delta R.T. 0.001 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion:106 Resp: 36930

Ion	Ratio	Lower	Upper
106	100		
91	179.8	0.0	0.0#

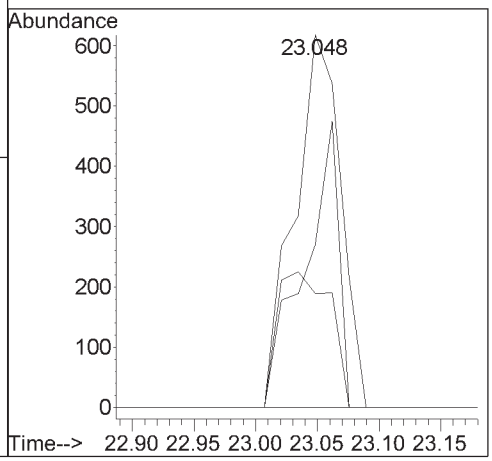




#73
1,2-DICHLOROBENZENE
Concen: 0.02 PPBv
RT: 23.058 min Scan# 1320
Delta R.T. 0.003 min
Lab File: C07488.D
Acq: 10 Mar 2011 5:52 pm

Tgt Ion:146 Resp: 16106

Ion	Ratio	Lower	Upper
146	100		
148	0.0	0.0	0.0
111	0.0	0.0	0.0



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-IA2-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-07	File ID:	A39612.D
Sampled:	03/03/11 10:00			Analyzed:	03/08/11 20:15
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104127	Sequence:	S101712	Calibration:	1103003
Instrument:	Air1				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
64-17-5	Ethanol	8.80	16.59	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\030811\A39612.D Vial: 12
Acq On : 8 Mar 2011 8:15 pm Operator: KG
Sample : sb25245-07 @ b1-ia2 1x to-15 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 11 17:14 2011 Quant Results File: T1022411.RES

Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

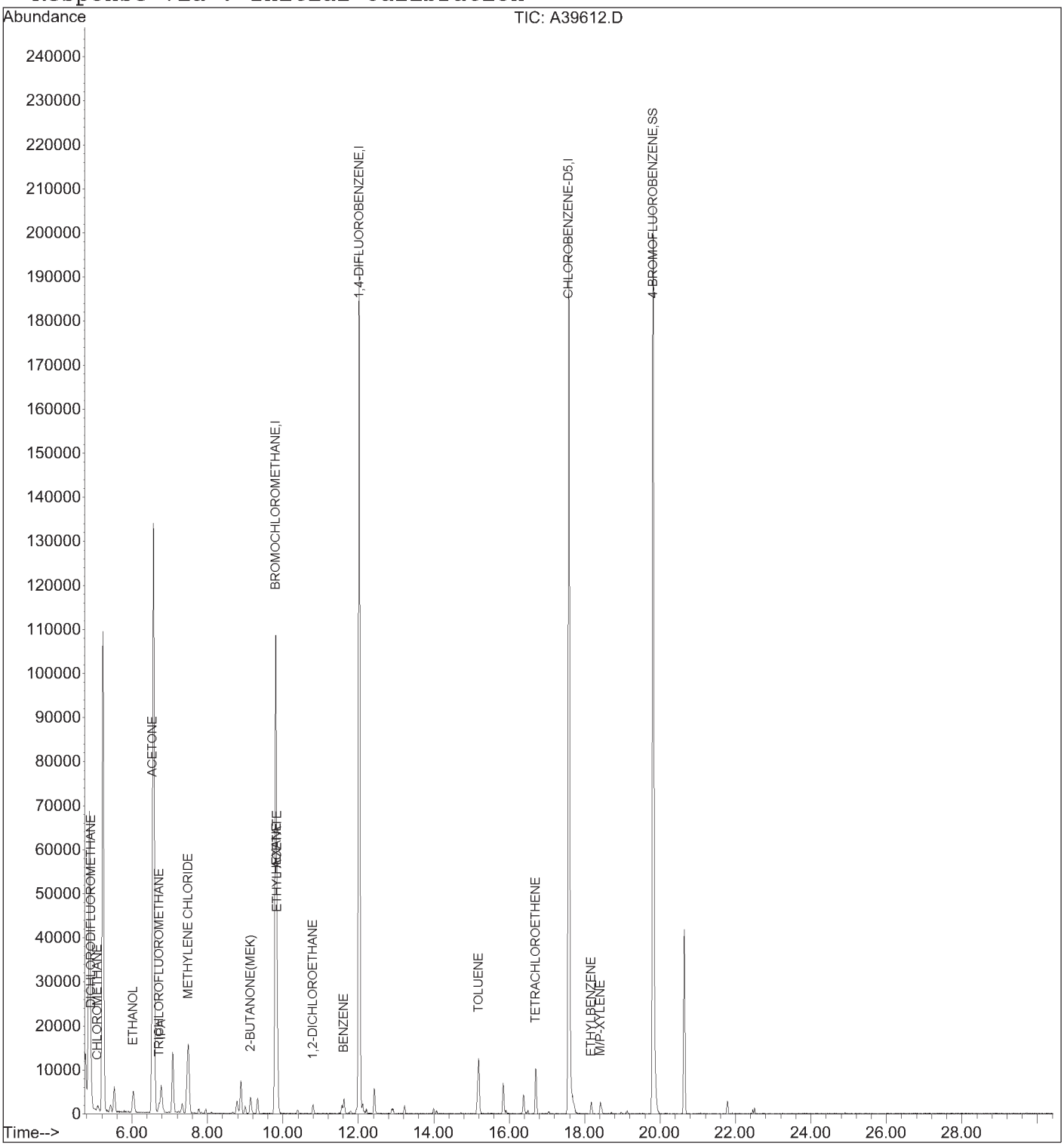
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.81	128	459763	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	12.02	114	2284109	10.00	PPBv		-0.01
48) CHLOROBENZENE-D5	17.58	82	1070856	10.00	PPBv		-0.02
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.81	95	1242761	10.40	PPBv		-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.00%				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	4.92	85	80315	0.66	PPBv	#	49
4) CHLOROMETHANE	5.09	50	21267	0.50	PPBv	#	43
10) ACETONE	6.53	58	66812m	4.65	PPBv		
11) TRICHLOROFLUOROMETHANE	6.72	101	29516m	0.31	PPBv		
12) ETHANOL	6.03	45	93673	8.80	PPBv	#	80
15) METHYLENE CHLORIDE	7.50	84	108708	3.65	PPBv		90
21) IPA	6.78	45	121585	2.83	PPBv	#	81
22) 2-BUTANONE(MEK)	9.15	72	19905	0.87	PPBv	#	1
24) HEXANE	9.85	57	82277	1.16	PPBv	#	61
25) ETHYL ACETATE	9.86	61	9932m	1.11	PPBv		
28) 1,2-DICHLOROETHANE	10.79	62	15245m	0.24	PPBv		
30) BENZENE	11.62	78	43566	0.31	PPBv		100
43) TOLUENE	15.19	91	146031	0.89	PPBv		98
47) TETRACHLOROETHENE	16.71	166	49742	0.63	PPBv	#	70
51) ETHYLBENZENE	18.17	91	43459	0.23	PPBv	#	42
52) M/P-XYLENE	18.42	106	21266m	0.29	PPBv		

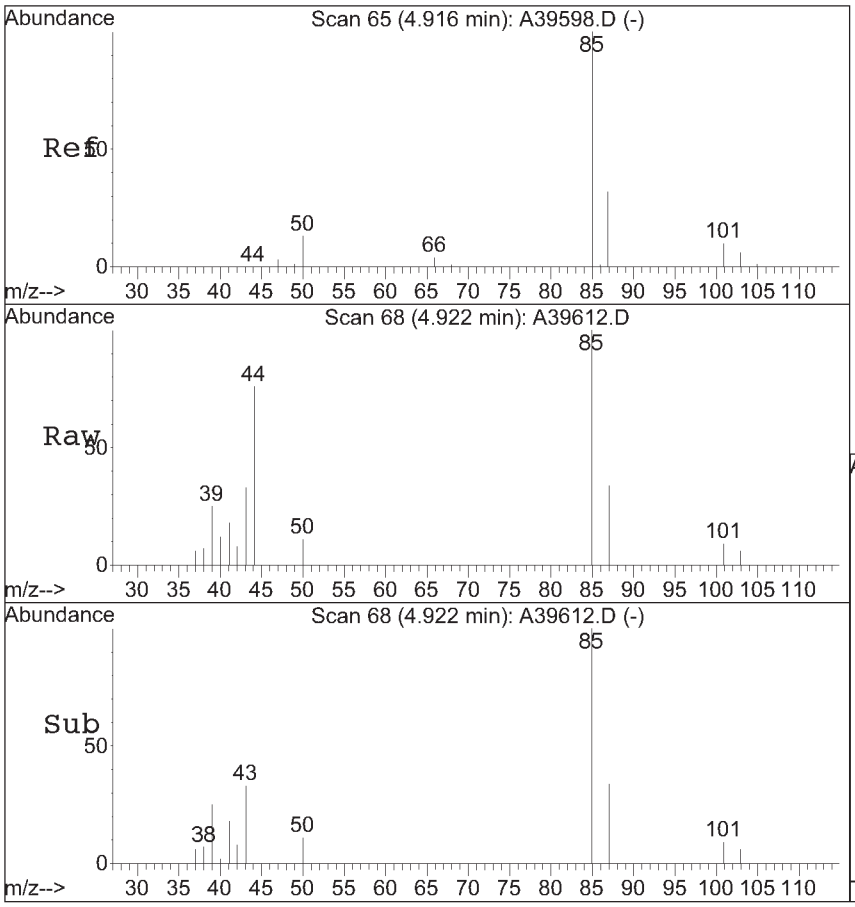
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030811\A39612.D Vial: 12
Acq On : 8 Mar 2011 8:15 pm Operator: KG
Sample : sb25245-07 @ b1-ia2 1x to-15 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 11 17:14 2011 Quant Results File: T1022411.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration

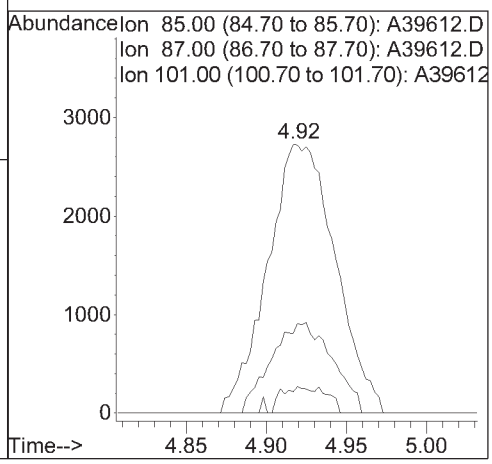


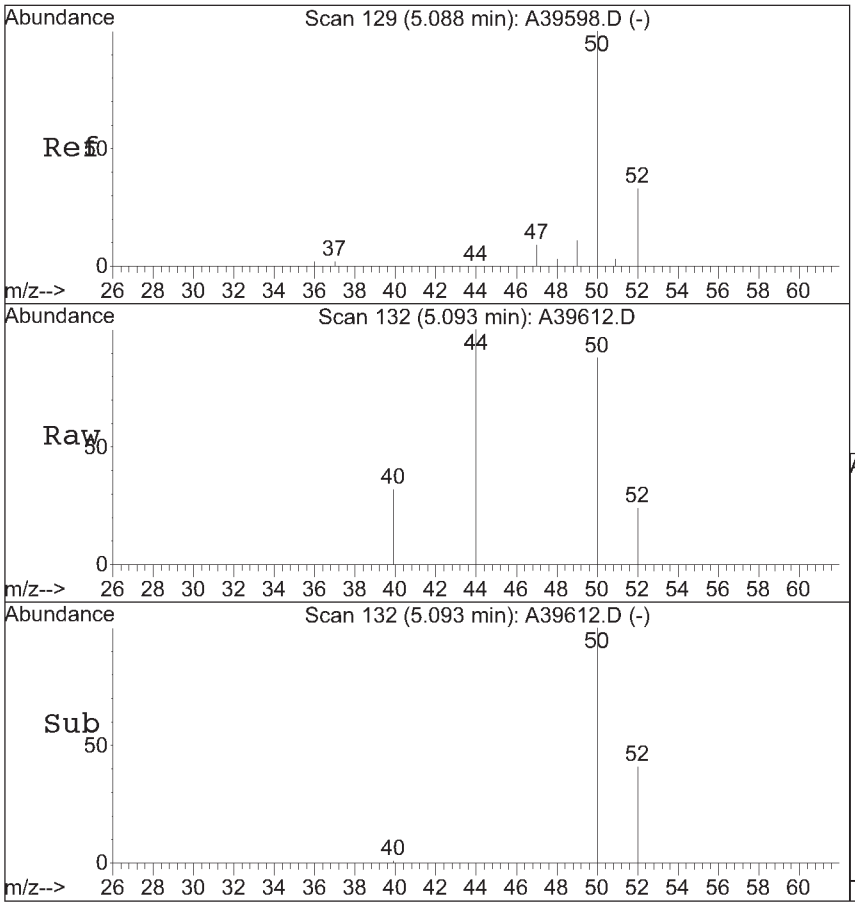


#3
DICHLORODIFLUOROMETHANE
Concen: 0.66 PPBv
RT: 4.92 min Scan# 68
Delta R.T. 0.01 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 85 Resp: 80315

Ion	Ratio	Lower	Upper
85	100		
87	0.0	26.1	39.1#
101	0.0	7.4	11.0#

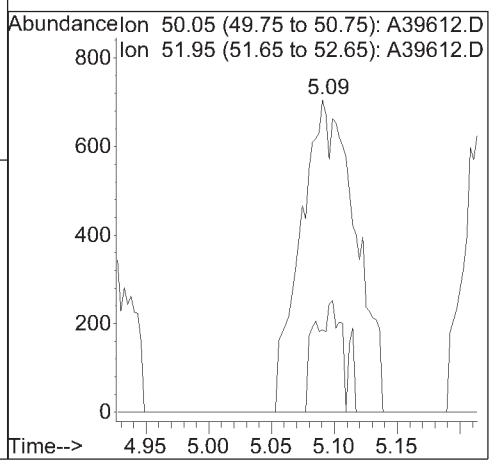


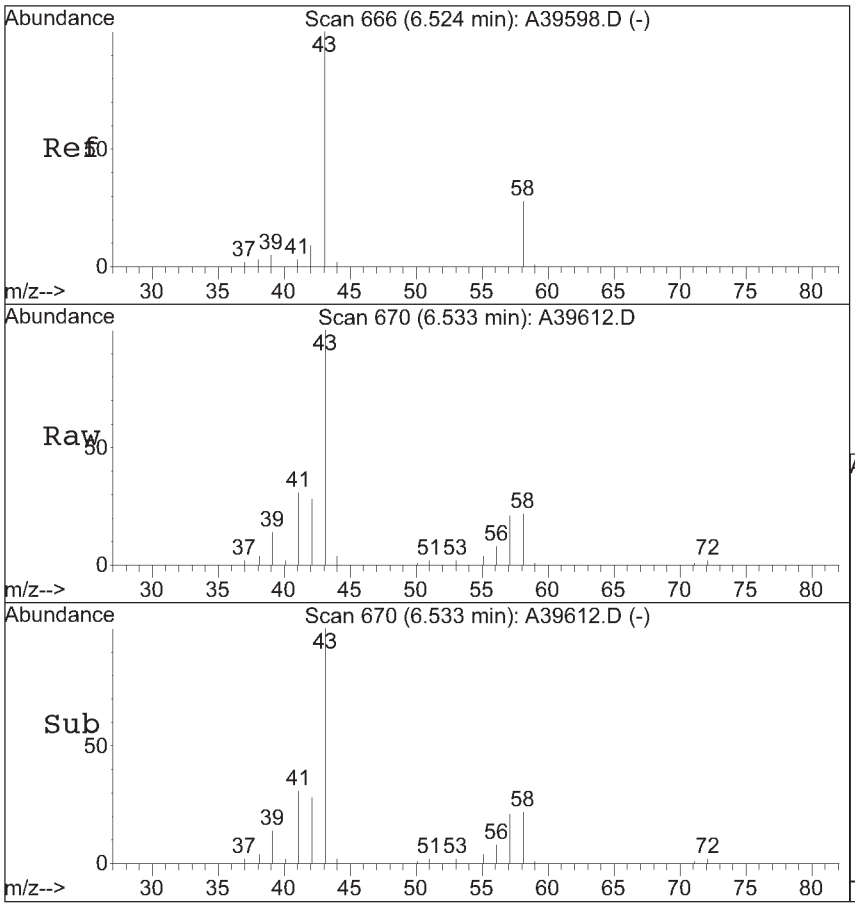


#4
CHLOROMETHANE
Concen: 0.50 PPBv
RT: 5.09 min Scan# 132
Delta R.T. 0.01 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 50 Resp: 21267

Ion	Ratio	Lower	Upper
50	100		
52	0.0	25.3	37.9#

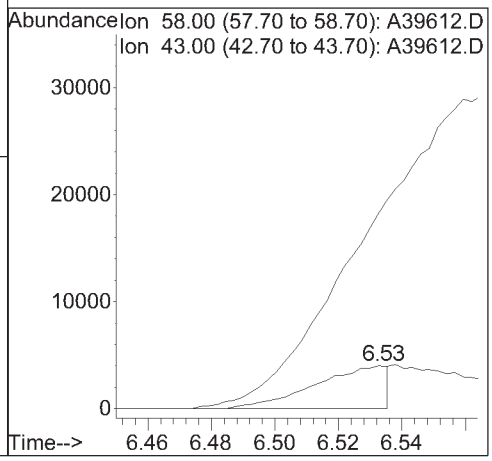


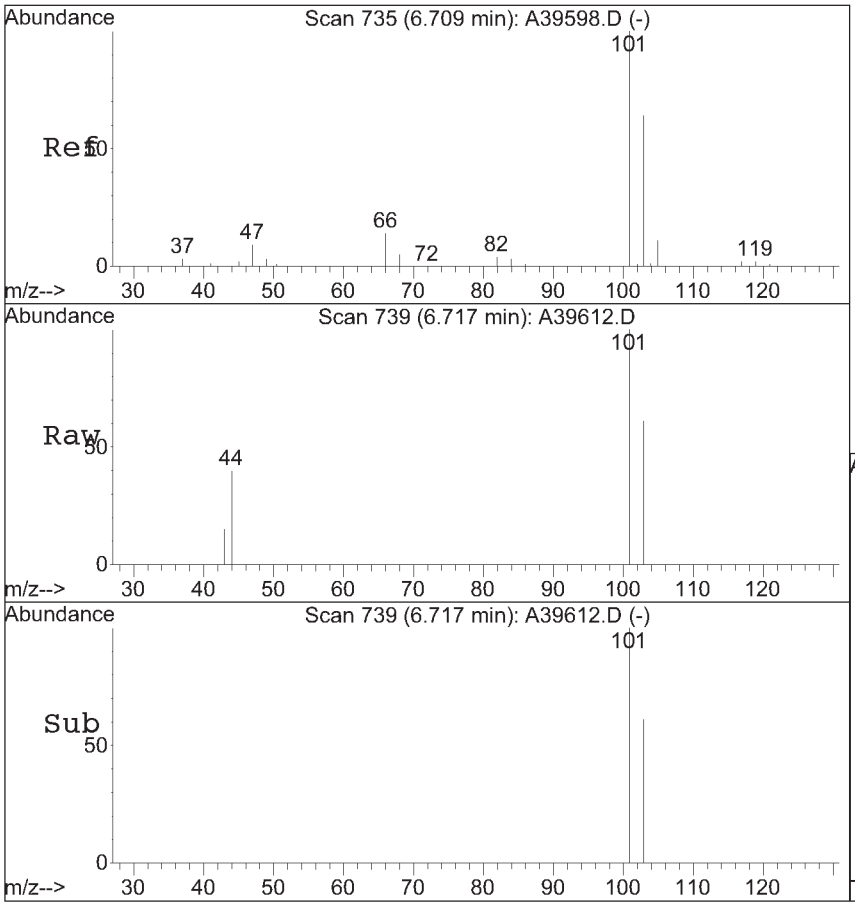


#10
ACETONE
Concen: 4.65 PPBv m
RT: 6.53 min Scan# 670
Delta R.T. 0.00 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 58 Resp: 66812

Ion	Ratio	Lower	Upper
58	100		
43	0.0	300.2	450.4#

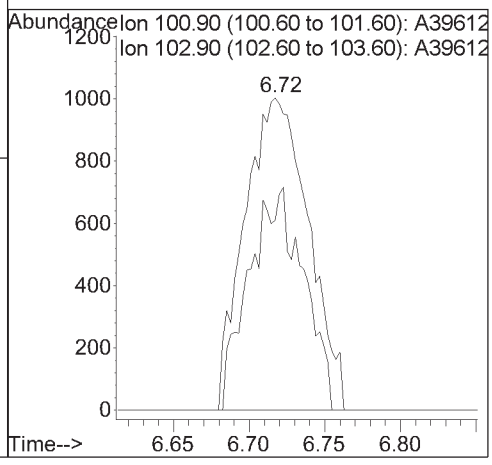


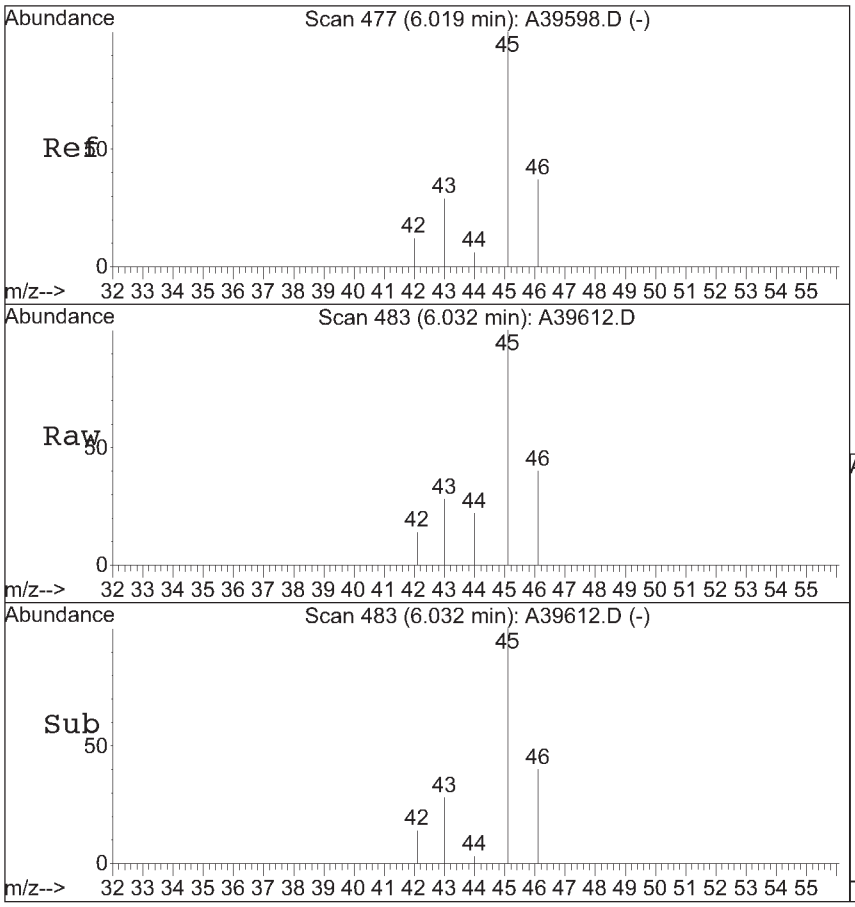


#11
TRICHLOROFLUOROMETHANE
Concen: 0.31 PPBv m
RT: 6.72 min Scan# 739
Delta R.T. 0.00 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion:101 Resp: 29516

Ion	Ratio	Lower	Upper
101	100		
103	0.0	51.8	77.6#

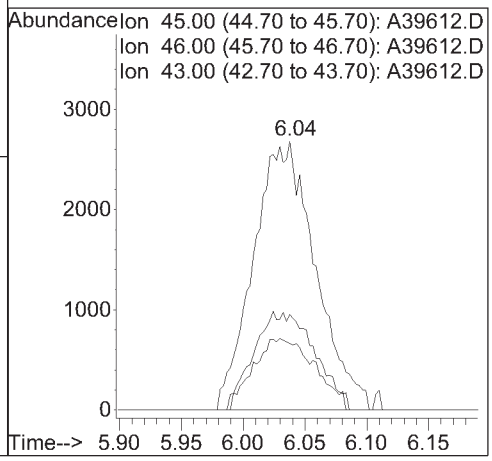


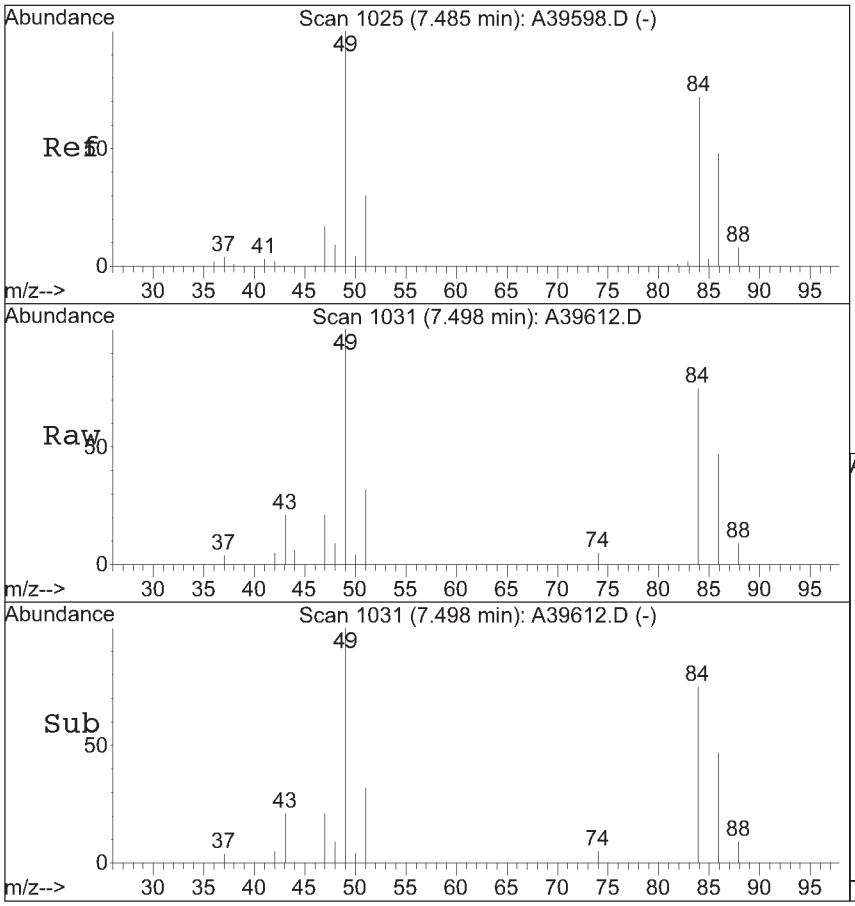


#12
ETHANOL
Concen: 8.80 PPBv
RT: 6.03 min Scan# 483
Delta R.T. 0.00 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 45 Resp: 93673

Ion	Ratio	Lower	Upper
45	100		
46	35.9	30.6	46.0
43	0.0	18.0	27.0#

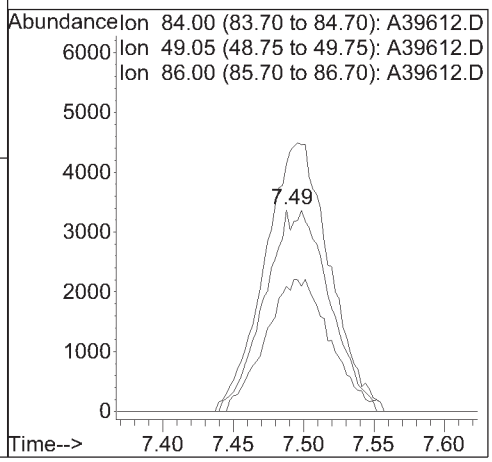


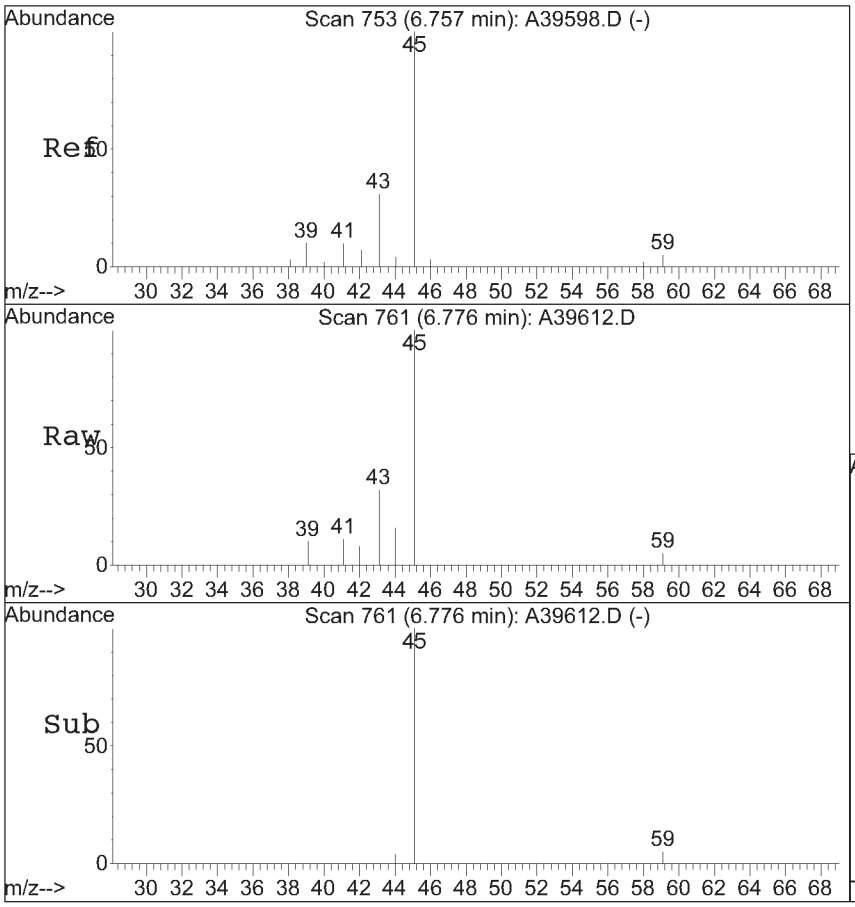


#15
METHYLENE CHLORIDE
Concen: 3.65 PPBv
RT: 7.50 min Scan# 1031
Delta R.T. 0.00 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 84 Resp: 108708

Ion	Ratio	Lower	Upper
84	100		
49	132.3	120.3	180.5
86	64.8	52.6	78.8

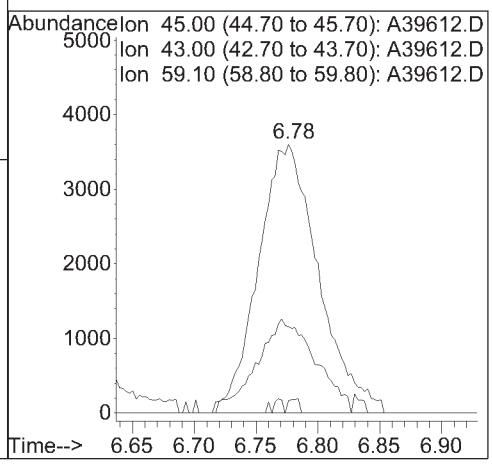


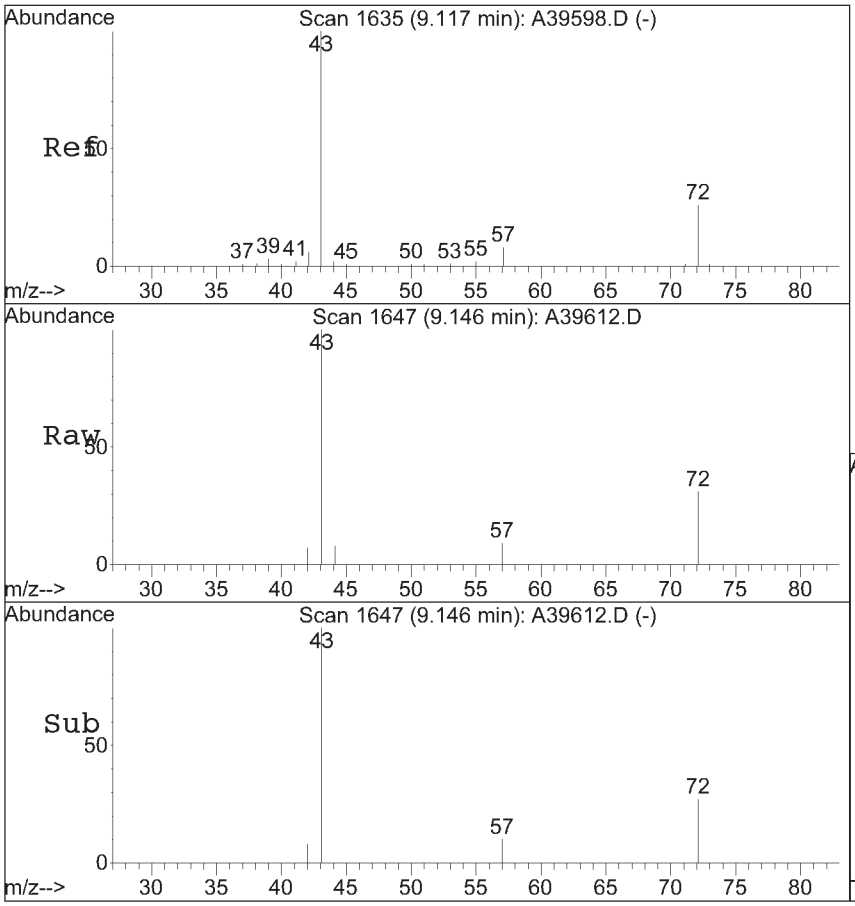


#21
IPA
Concen: 2.83 PPBv
RT: 6.78 min Scan# 761
Delta R.T. 0.01 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 45 Resp: 121585

Ion	Ratio	Lower	Upper
45	100		
43	29.5	16.2	24.2#
59	0.0	3.0	4.4#

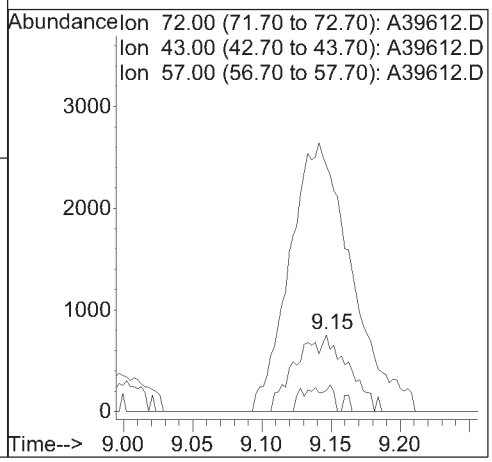


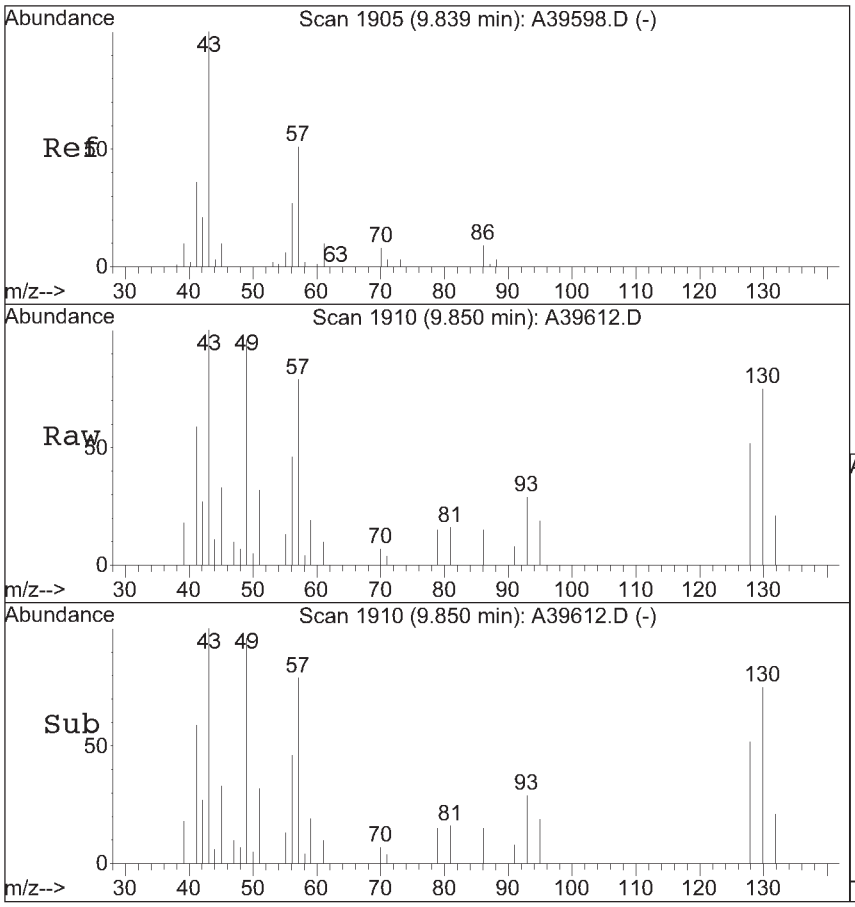


#22
2-BUTANONE(MEK)
Concen: 0.87 PPBv
RT: 9.15 min Scan# 1647
Delta R.T. 0.01 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 72 Resp: 19905

Ion	Ratio	Lower	Upper
72	100		
43	411.2	222.2	333.4#
57	0.0	987.4	1481.0#

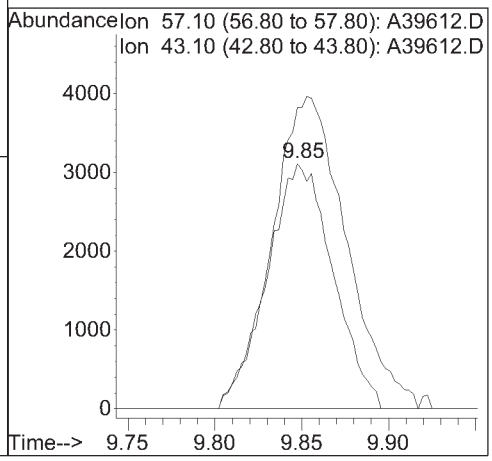


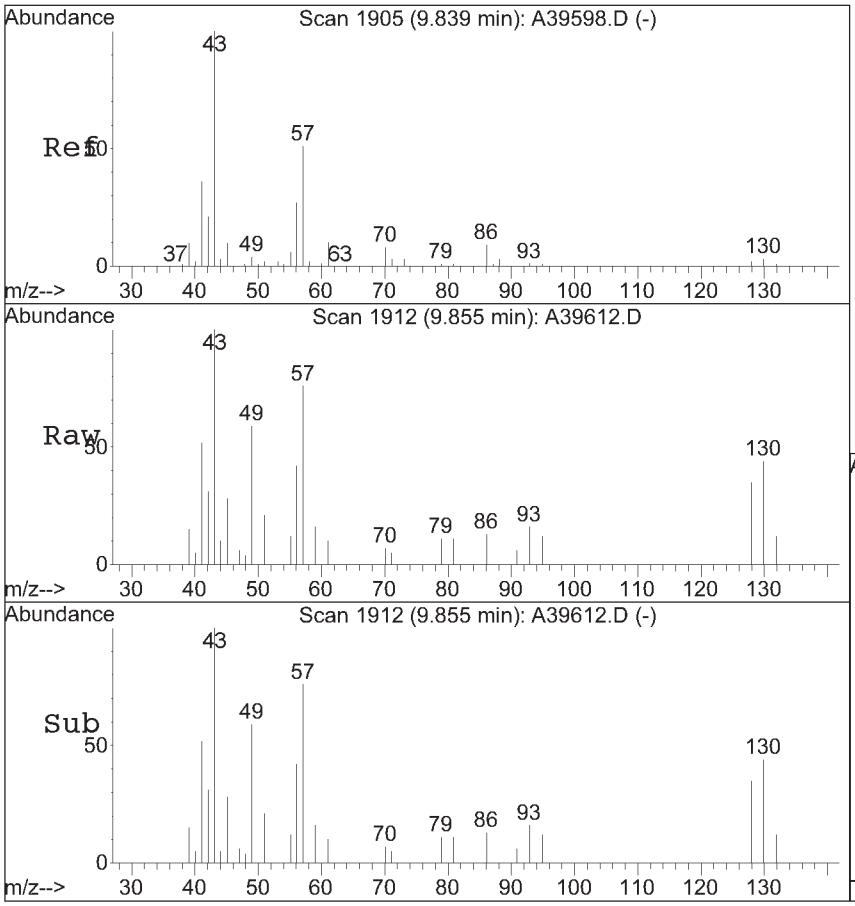


#24
HEXANE
Concen: 1.16 PPBv
RT: 9.85 min Scan# 1910
Delta R.T. -0.01 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 57 Resp: 82277

Ion	Ratio	Lower	Upper
57	100		
43	144.3	163.9	245.9#

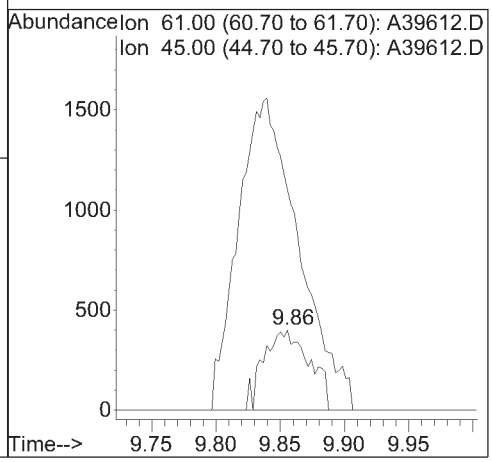


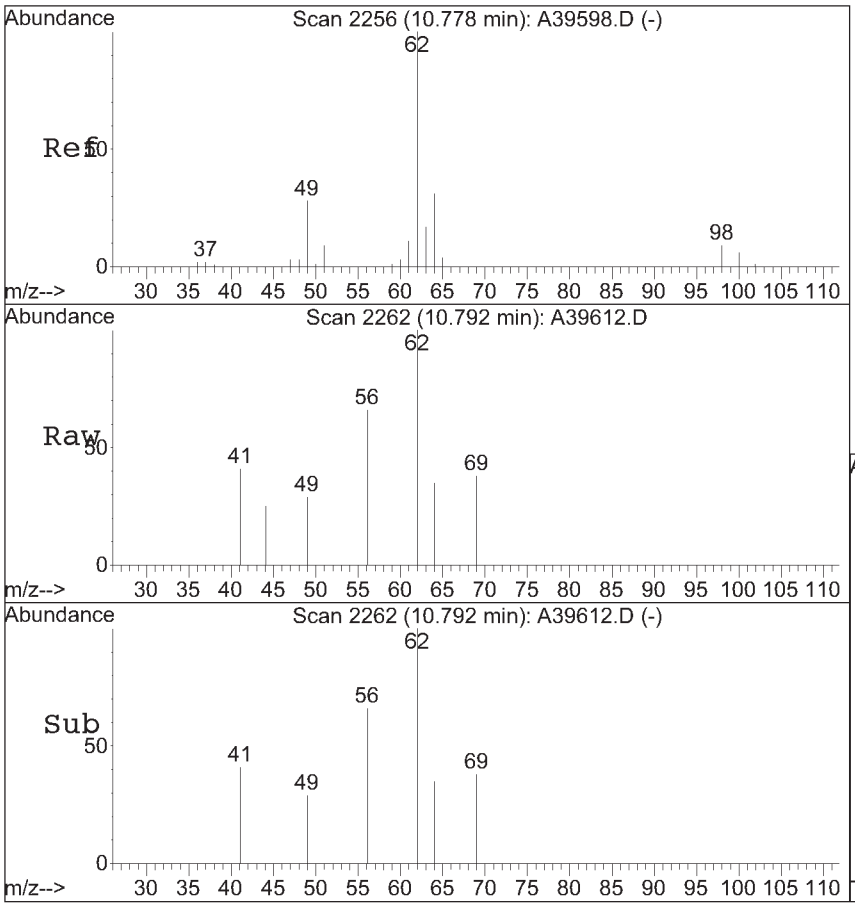


#25
ETHYL ACETATE
Concen: 1.11 PPBv m
RT: 9.86 min Scan# 1912
Delta R.T. -0.00 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 61 Resp: 9932

Ion	Ratio	Lower	Upper
61	100		
45	0.0	84.2	126.4#

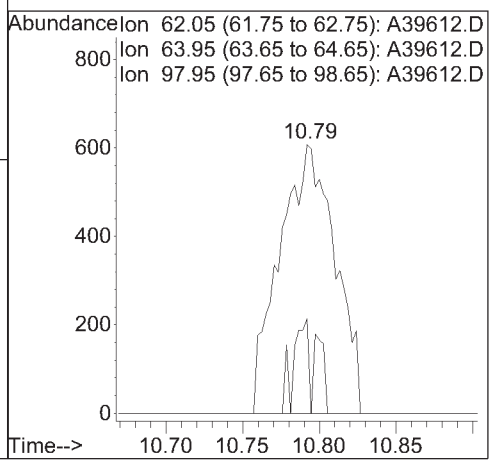


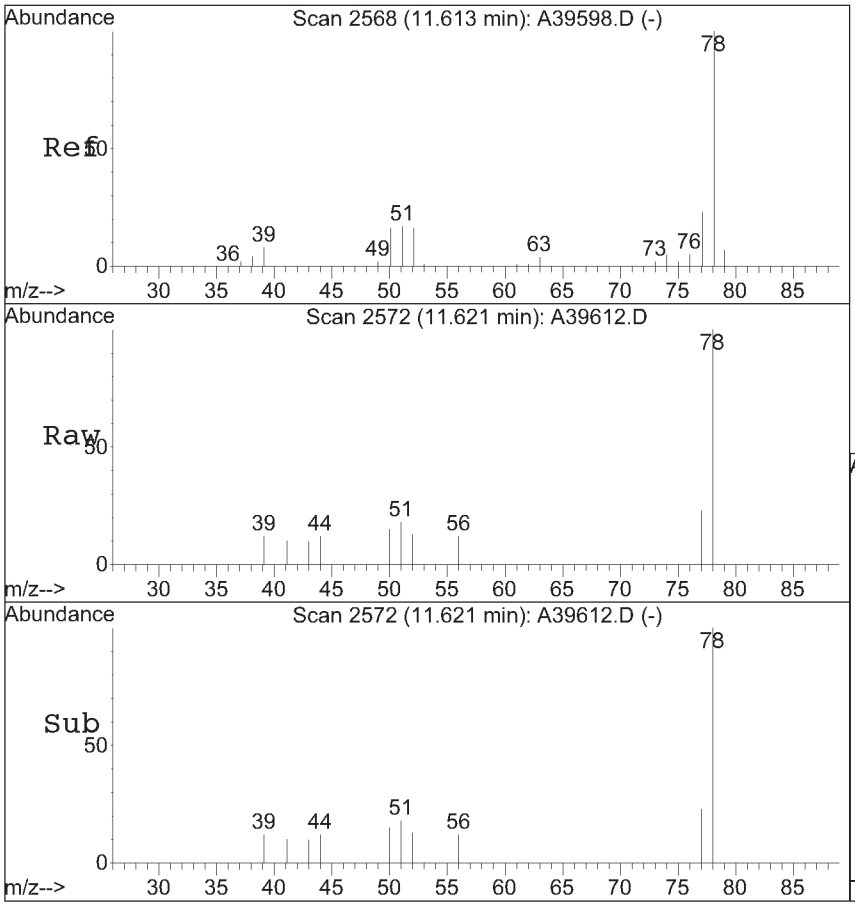


#28
1,2-DICHLOROETHANE
Concen: 0.24 PPBv m
RT: 10.79 min Scan# 2262
Delta R.T. -0.01 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 62 Resp: 15245

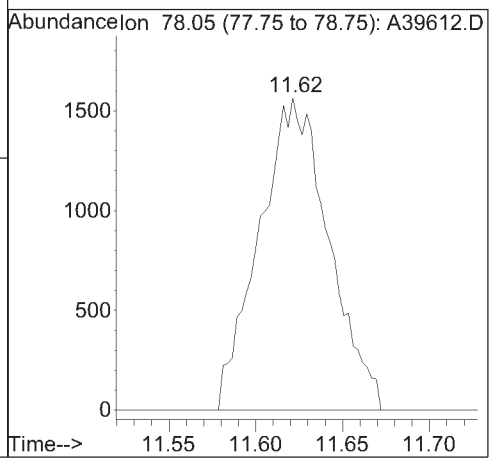
Ion	Ratio	Lower	Upper
62	100		
64	0.0	26.1	39.1#
98	0.0	6.4	9.6#

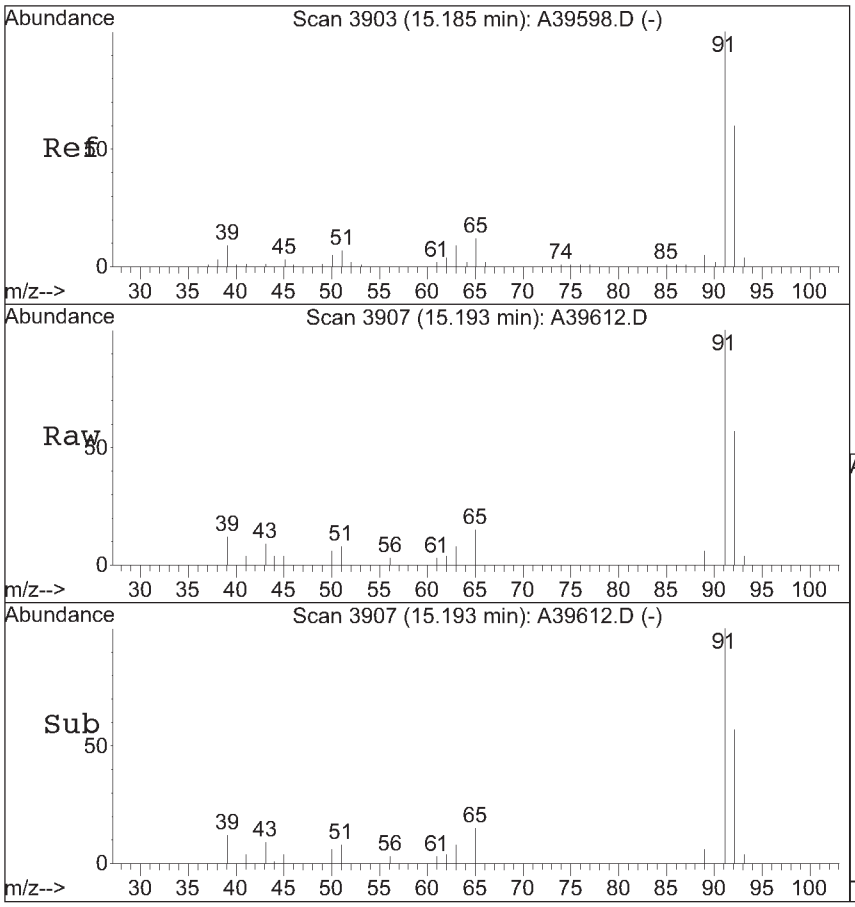




#30
BENZENE
Concen: 0.31 PPBv
RT: 11.62 min Scan# 2572
Delta R.T. -0.01 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 78 Resp: 43566

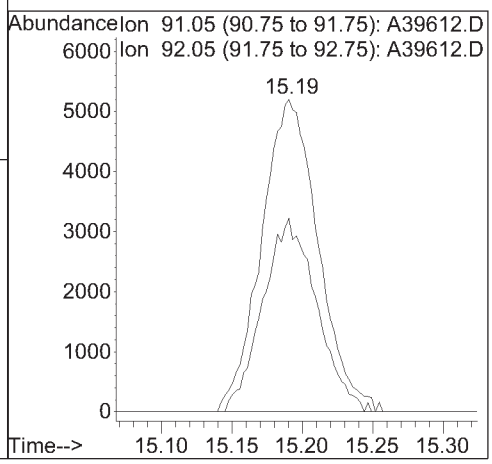


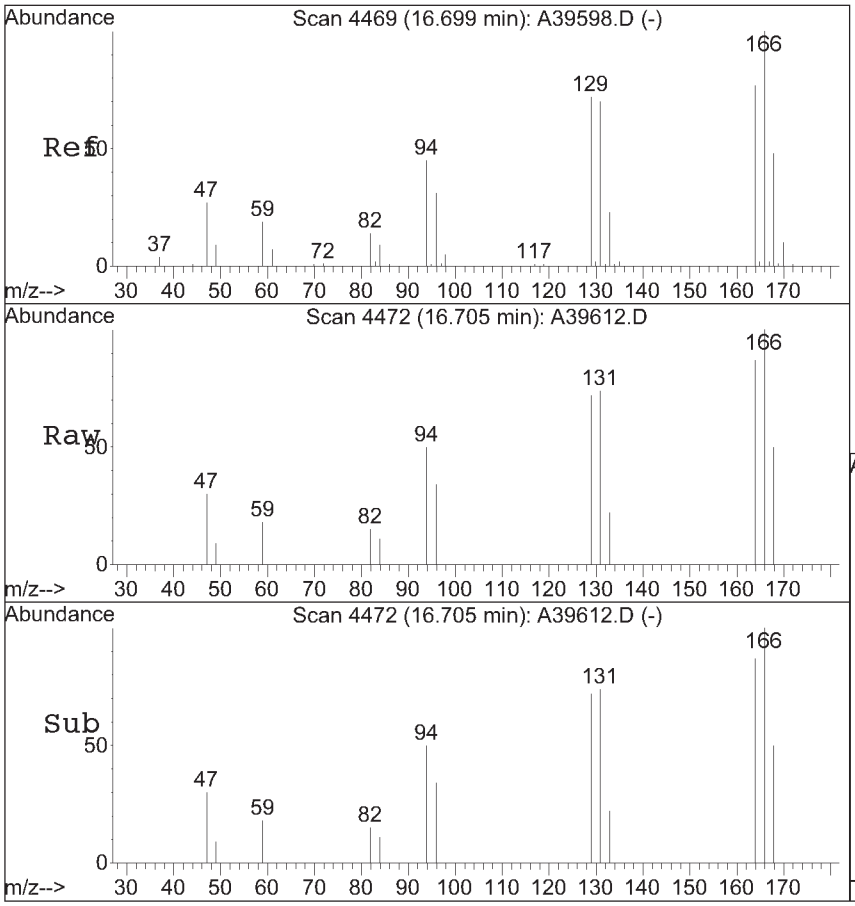


#43
TOLUENE
Concen: 0.89 PPBv
RT: 15.19 min Scan# 3907
Delta R.T. -0.02 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 91 Resp: 146031

Ion	Ratio	Lower	Upper
91	100		
92	58.9	48.1	72.1

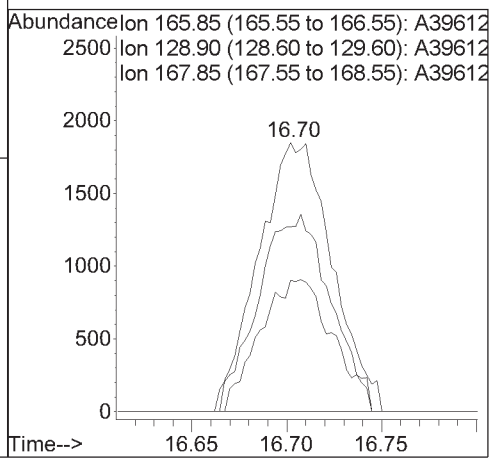


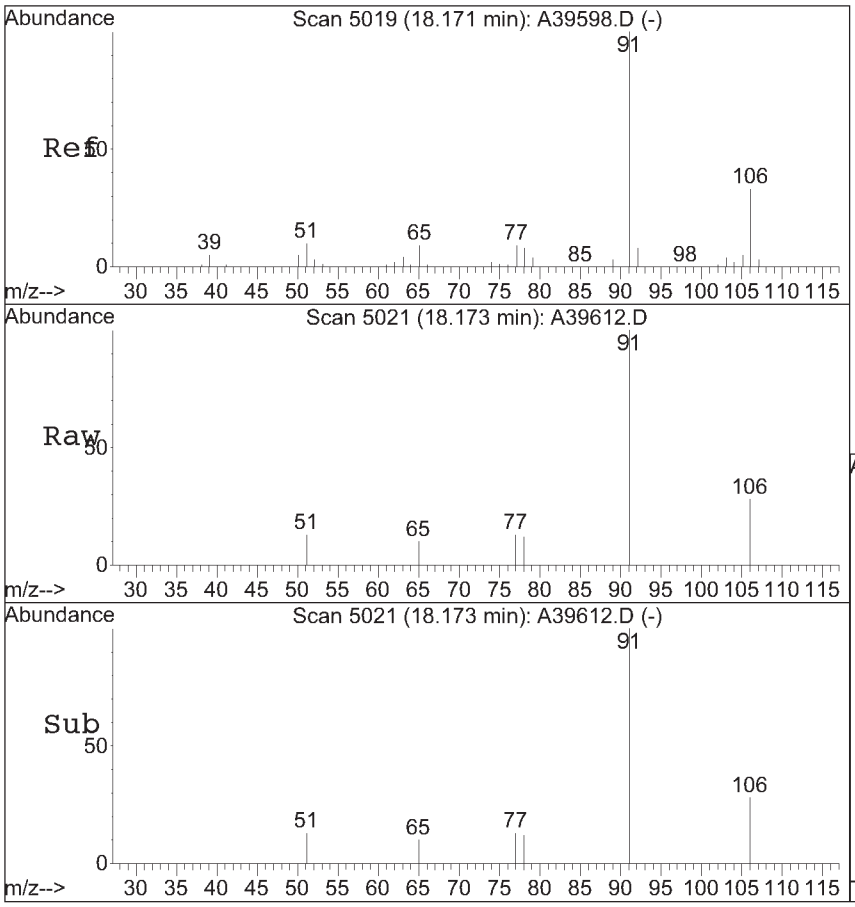


#47
TETRACHLOROETHENE
Concen: 0.63 PPBv
RT: 16.71 min Scan# 4472
Delta R.T. -0.02 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion:166 Resp: 49742

Ion	Ratio	Lower	Upper
166	100		
129	72.9	56.6	84.8
168	0.0	38.0	57.0#

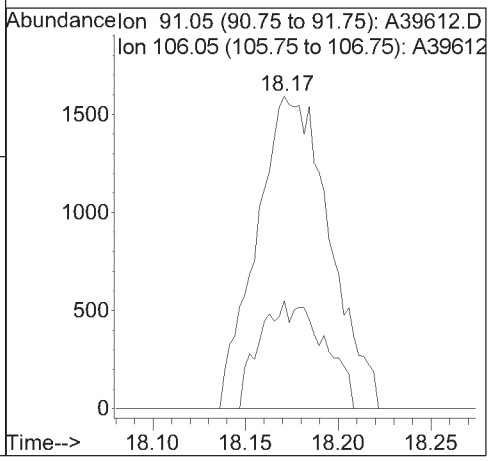


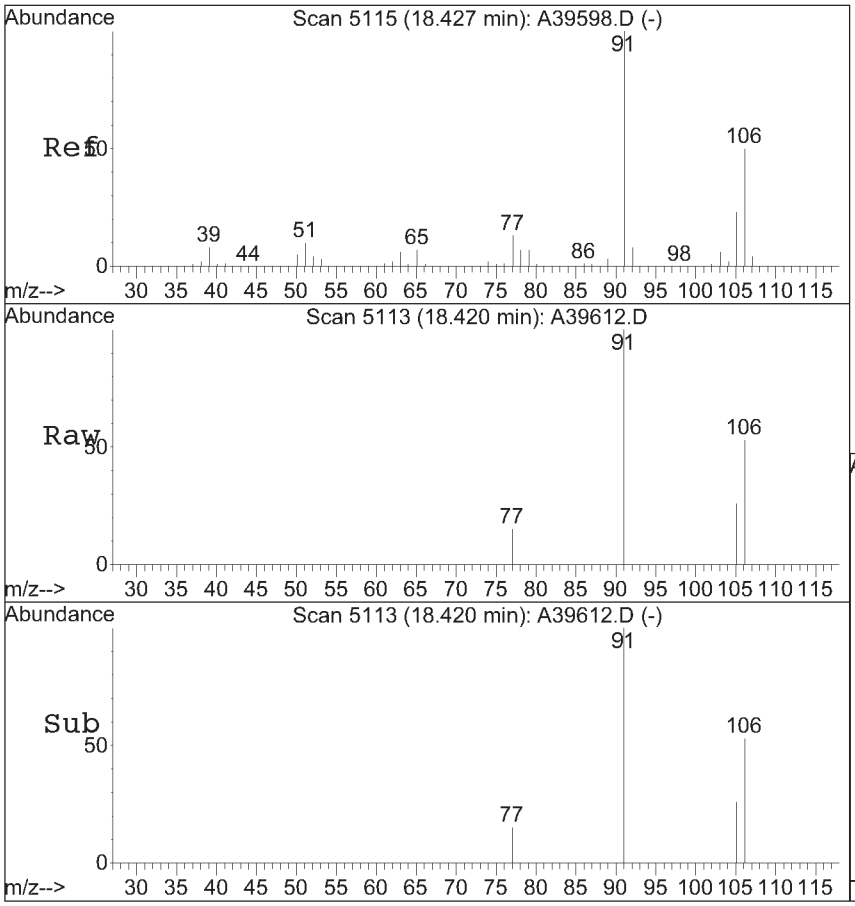


#51
ETHYLBENZENE
Concen: 0.23 PPBv
RT: 18.17 min Scan# 5021
Delta R.T. -0.02 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion: 91 Resp: 43459

Ion	Ratio	Lower	Upper
91	100		
106	0.0	25.8	38.8#

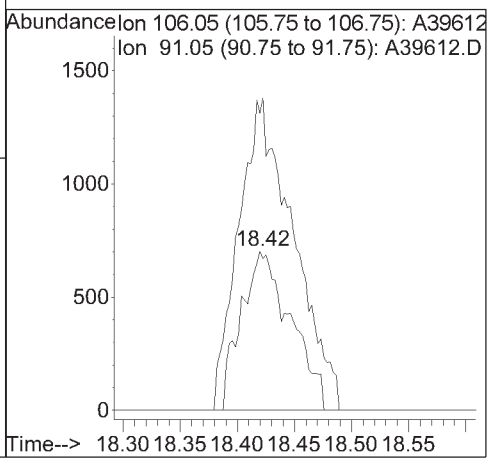




#52
M/P-XYLENE
Concen: 0.29 PPBv m
RT: 18.42 min Scan# 5113
Delta R.T. -0.03 min
Lab File: A39612.D
Acq: 8 Mar 2011 8:15 pm

Tgt Ion:106 Resp: 21266

Ion	Ratio	Lower	Upper
106	100		
91	0.0	155.7	233.5#



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B2-SS1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-08	File ID:	C07489.D
Sampled:	03/03/11 13:50			Analyzed:	03/10/11 18:45
Dilution Factor:	2	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010	Instrument:	Air4

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
71-55-6	1,1,1-Trichloroethane	0.84000	4.58	
115-07-1	Propene	1.4000	2.41	
75-71-8	Dichlorodifluoromethane (Freon12)	0.86000	4.25	
74-87-3	Chloromethane	0.52000	1.07	
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.11400	0.80	U
75-01-4	Vinyl chloride	0.12800	0.33	U
106-99-0	1,3-Butadiene	0.11000	0.24	U
74-83-9	Bromomethane	0.10400	0.40	U
75-00-3	Chloroethane	0.15200	0.40	U
67-64-1	Acetone	10.680	25.38	
75-69-4	Trichlorofluoromethane (Freon 11)	0.50000	2.81	
64-17-5	Ethanol	9.6600	18.21	
75-35-4	1,1-Dichloroethene	0.14600	0.58	U
107-13-1	Acrylonitrile	0.12800	0.28	U
75-09-2	Methylene chloride	0.30000	1.04	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.16000	1.23	J
75-15-0	Carbon disulfide	0.12000	0.37	J
156-60-5	trans-1,2-Dichloroethene	0.084000	0.33	U
75-34-3	1,1-Dichloroethane	0.10000	0.40	J
1634-04-4	Methyl tert-butyl ether	0.098000	0.35	U
67-63-0	Isopropyl alcohol	1.8000	4.42	
78-93-3	2-Butanone (MEK)	1.6000	4.72	
156-59-2	cis-1,2-Dichloroethene	0.098000	0.39	U
110-54-3	Hexane	2.6600	9.38	
141-78-6	Ethyl acetate	2.7600	9.95	
67-66-3	Chloroform	0.10000	0.49	J
109-99-9	Tetrahydrofuran	0.10600	0.31	U
107-06-2	1,2-Dichloroethane	0.092000	0.37	U
71-43-2	Benzene	0.52000	1.66	
56-23-5	Carbon tetrachloride	0.12000	0.75	J
110-82-7	Cyclohexane	0.16200	0.56	U
78-87-5	1,2-Dichloropropane	0.098000	0.45	U
75-27-4	Bromodichloromethane	0.10600	0.71	U
79-01-6	Trichloroethene	0.10400	0.56	U
123-91-1	1,4-Dioxane	0.13400	0.48	U
142-82-5	n-Heptane	0.14000	0.57	J
108-10-1	4-Methyl-2-pentanone (MIBK)	0.10600	0.43	U
10061-01-5	cis-1,3-Dichloropropene	0.094000	0.43	U
10061-02-6	trans-1,3-Dichloropropene	0.094000	0.43	U
79-00-5	1,1,2-Trichloroethane	0.13200	0.72	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B2-SS1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-08	File ID:	C07489.D
Sampled:	03/03/11 13:50			Analyzed:	03/10/11 18:45
Dilution Factor:	2	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
108-88-3	Toluene	5.1200	19.27	
591-78-6	2-Hexanone (MBK)	0.084000	0.34	U
124-48-1	Dibromochloromethane	0.11800	1.01	U
106-93-4	1,2-Dibromoethane (EDB)	0.086000	0.66	U
127-18-4	Tetrachloroethene	0.74000	5.02	
108-90-7	Chlorobenzene	0.12200	0.56	U
100-41-4	Ethylbenzene	0.16000	0.69	J
630-20-6	1,1,1,2-Tetrachloroethane	0.094000	0.65	U
179601-23-1	m,p-Xylene	0.30000	1.30	J
75-25-2	Bromoform	0.092000	0.95	U
100-42-5	Styrene	0.10600	0.45	U
95-47-6	o-Xylene	0.12200	0.53	U
79-34-5	1,1,2,2-Tetrachloroethane	0.13200	0.91	U
108-67-8	1,3,5-Trimethylbenzene	0.092000	0.45	U
622-96-8	4-Ethyltoluene	0.11000	0.54	U
95-63-6	1,2,4-Trimethylbenzene	0.078000	0.38	U
98-82-8	Isopropylbenzene	0.11200	0.55	U
541-73-1	1,3-Dichlorobenzene	0.11000	0.66	U
100-44-7	Benzyl chloride	0.12400	0.64	U
106-46-7	1,4-Dichlorobenzene	0.12200	0.73	U
91-20-3	Naphthalene	0.36600	1.92	U
95-50-1	1,2-Dichlorobenzene	0.10600	0.64	U
120-82-1	1,2,4-Trichlorobenzene	0.10600	0.79	U
87-68-3	Hexachlorobutadiene	0.080000	0.85	U
135-98-8	sec-Butylbenzene	0.10400	0.57	U
99-87-6	4-Isopropyltoluene	0.12400	0.67	U
104-51-8	n-Butylbenzene	0.11200	0.61	U

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07489.D
Acq On : 10 Mar 2011 6:45 pm
Operator : KRL
Sample : sb25245-08 @ b2-ss1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 11 15:07:06 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

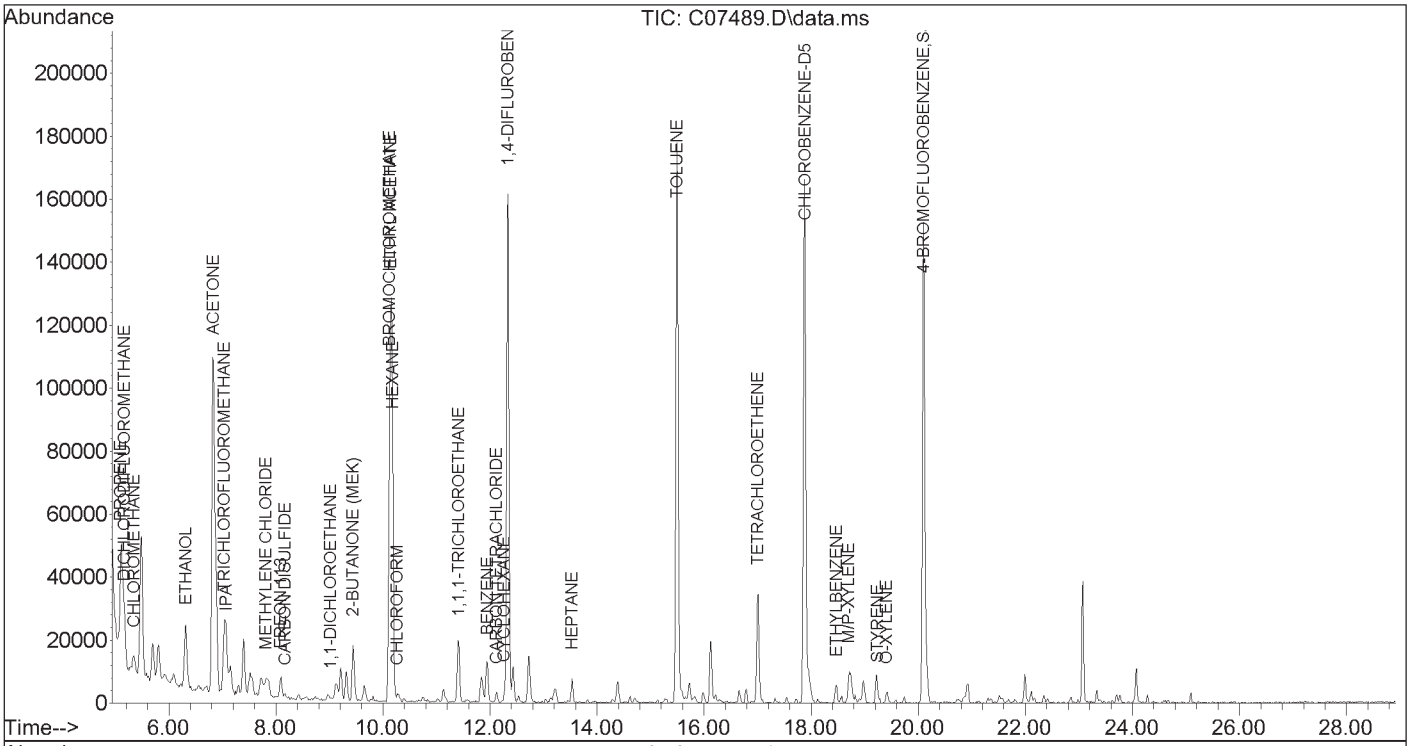
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.134	128	485504	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.338	114	2498733	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.880	54	310713	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.103	95	1015388	9.38	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 93.80%#			
Target Compounds						Qvalue
2) PROPENE	5.108	42	107446	0.70	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.175	85	299374	0.43	PPBv #	100
4) CHLOROMETHANE	5.354	50	95840	0.26	PPBv #	100
11) ACETONE	6.833	58	795780	5.34	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.038	101	240701	0.25	PPBv #	100
13) ETHANOL	6.318	45	421018	4.83	PPBv #	100
17) METHYLENE CHLORIDE	7.819	84	41145	0.15	PPBv #	100
18) FREON 113	8.100	101	46469	0.08	PPBv #	100
19) CARBON DISULFIDE	8.173	76	36727	0.06	PPBv	100
21) 1,1-DICHLOROETHANE	9.033	63	19521	0.05	PPBv #	100
24) IPA	7.074	45	414490	0.90	PPBv #	100
25) 2-BUTANONE (MEK)	9.446	72	84039	0.80	PPBv #	100
27) HEXANE	10.179	57	471849	1.33	PPBv #	100
28) ETHYL ACETATE	10.162	61	97955	1.38	PPBv #	100
29) CHLOROFORM	10.271	83	20828	0.05	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.416	97	186618	0.42	PPBv #	100
33) BENZENE	11.950	78	188805	0.26	PPBv	100
34) CARBON TETRACHLORIDE	12.124	119	31244	0.06	PPBv #	100
35] CARBON TETRACHLORIDE (...	12.124	119	35218	0.05	PPBv #	100
36) CYCLOHEXANE	12.270	56	14802m	0.04	PPBv	
41] TRICHLOROETHENE (SIM)	13.190	95	11286	0.02	PPBv #	100
43) HEPTANE	13.533	57	16523m	0.07	PPBv	
48) TOLUENE	15.498	91	2318930	2.56	PPBv #	100
52) TETRACHLOROETHENE	17.009	166	174672	0.37	PPBv #	100
53] TETRACHLOROETHENE (SIM)	17.009	166	223063	0.41	PPBv #	100
57) ETHYLBENZENE	18.475	91	89719	0.08	PPBv #	100
58) M/P-XYLENE	18.715	106	77946	0.15	PPBv #	100
60) STYRENE	19.245	104	17700m	0.03	PPBv	
61) O-XYLENE	19.404	106	19457	0.04	PPBv #	100

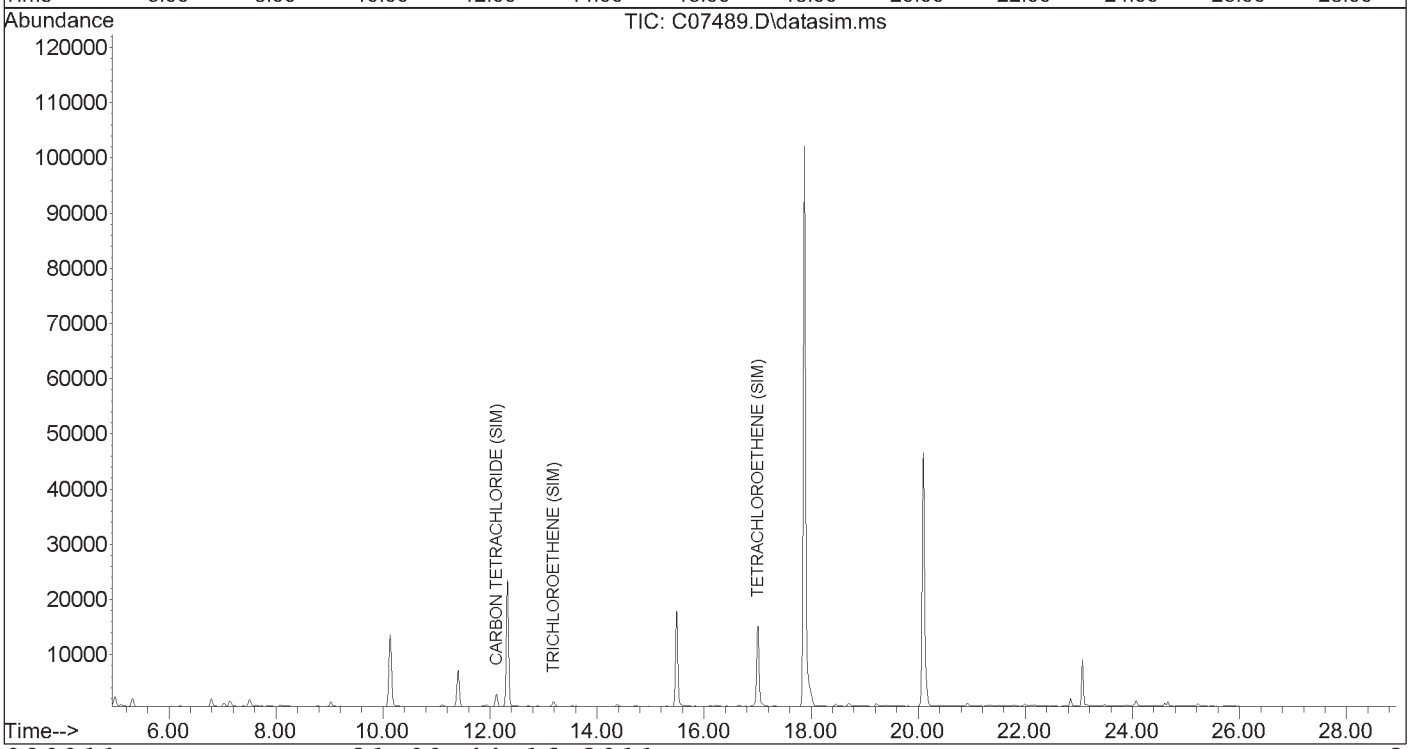
(#) = qualifier out of range (m) = manual integration (+) = signals summed

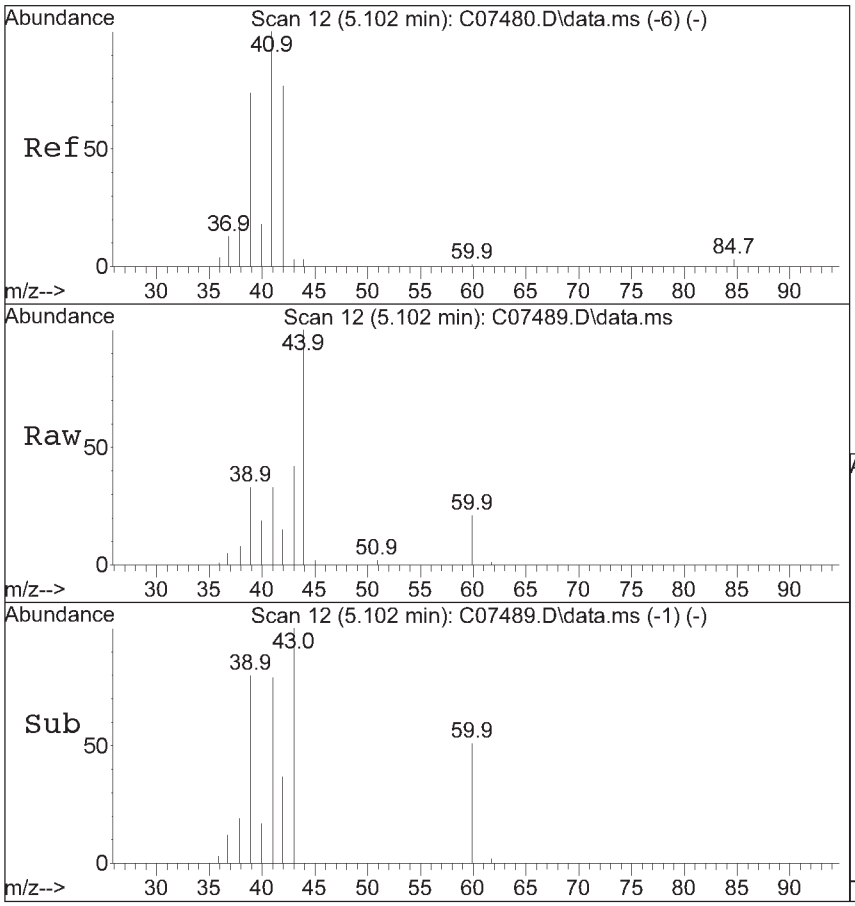
Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07489.D
Acq On : 10 Mar 2011 6:45 pm
Operator : KRL
Sample : sb25245-08 @ b2-ss1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 11 15:07:06 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration



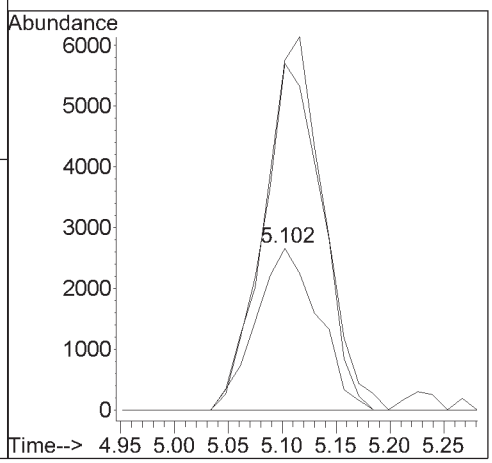


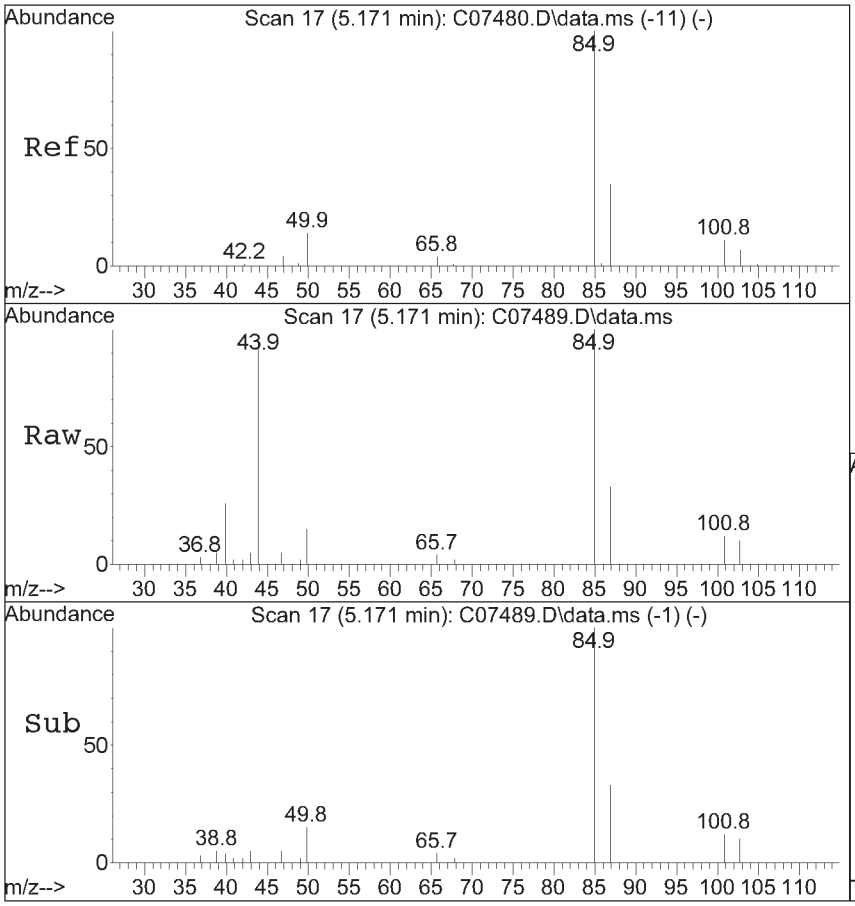


#2
PROPENE
Concen: 0.70 PPBv
RT: 5.108 min Scan# 12
Delta R.T. 0.016 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 42 Resp: 107446

Ion	Ratio	Lower	Upper
42	100		
39	217.7	0.0	0.0#
41	201.4	0.0	0.0#

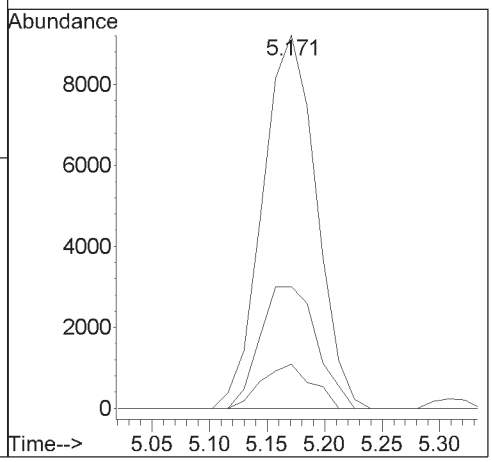


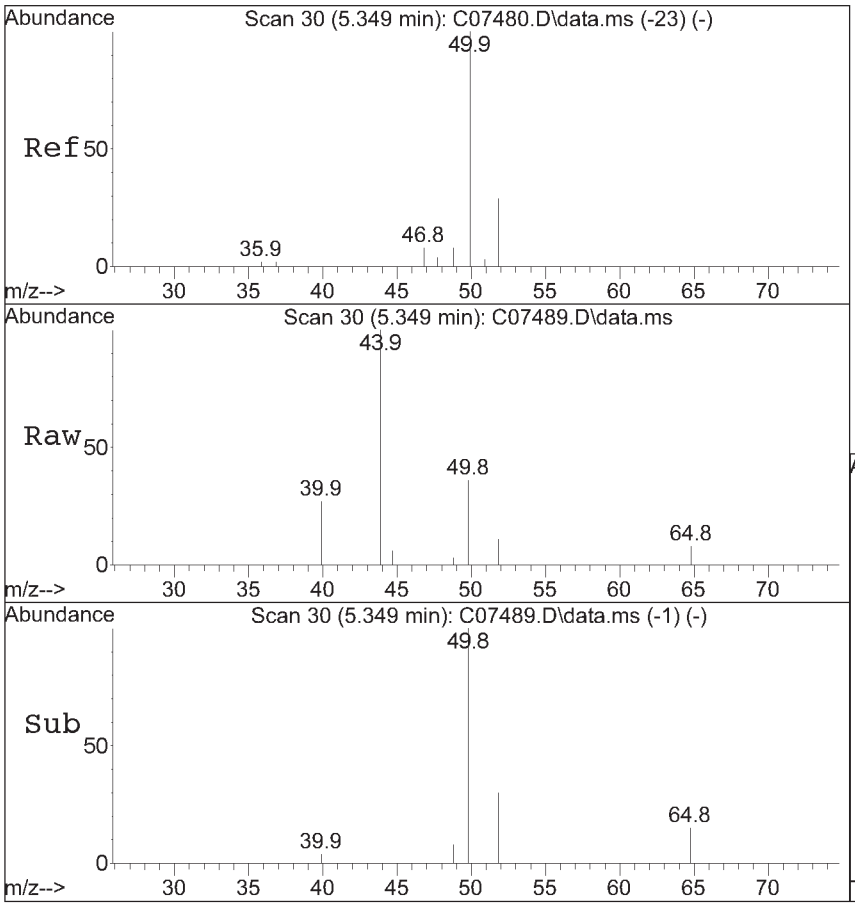


#3
DICHLORODIFLUOROMETHANE
Concen: 0.43 PPBv
RT: 5.175 min Scan# 17
Delta R.T. 0.001 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 85 Resp: 299374

Ion	Ratio	Lower	Upper
85	100		
87	34.3	0.0	0.0#
101	11.1	0.0	0.0#

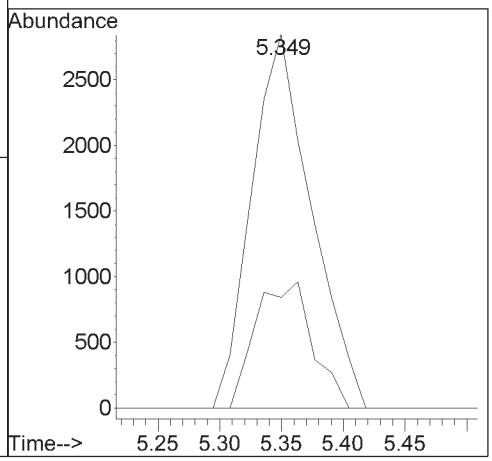


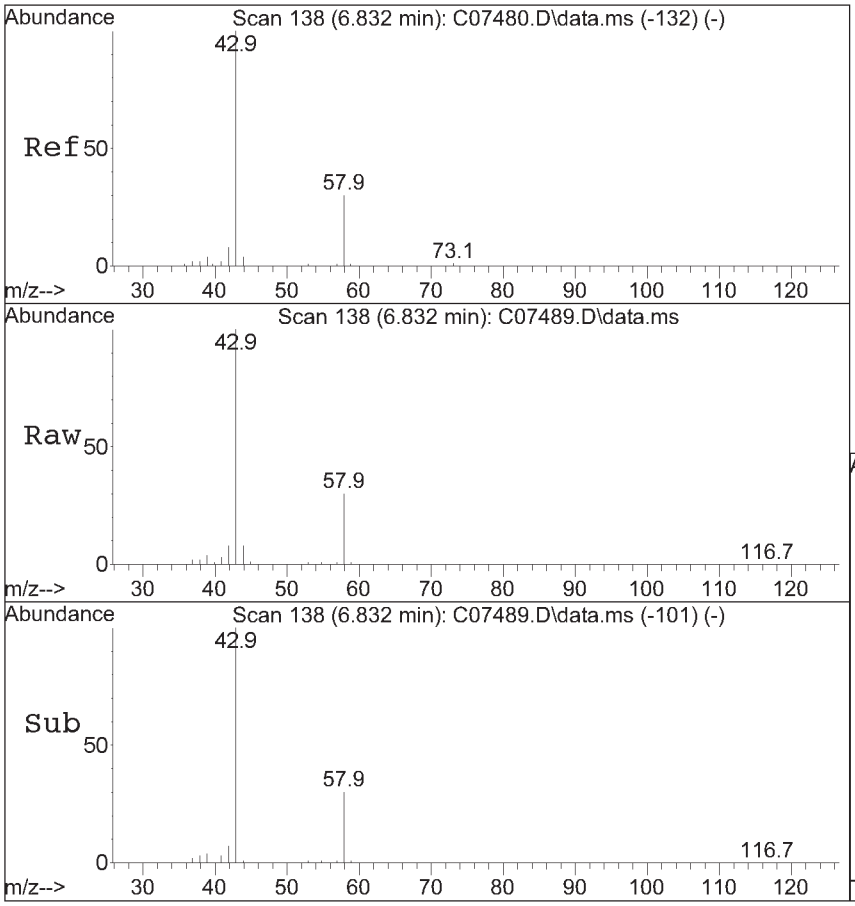


#4
CHLOROMETHANE
Concen: 0.26 PPBv
RT: 5.354 min Scan# 30
Delta R.T. -0.003 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 50 Resp: 95840

Ion	Ratio	Lower	Upper
50	100		
52	32.1	0.0	0.0#

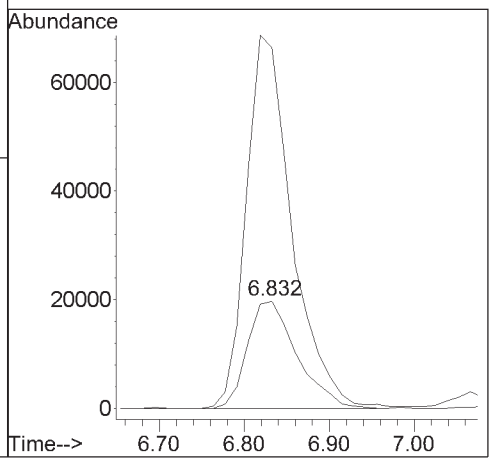


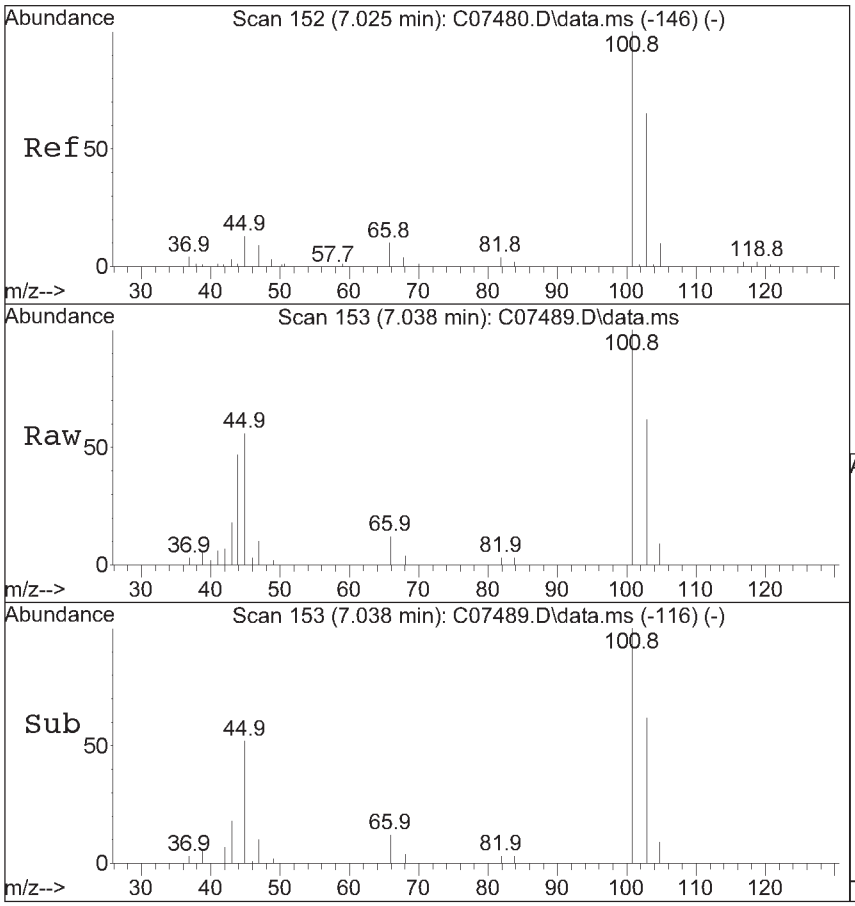


#11
ACETONE
Concen: 5.34 PPBv
RT: 6.833 min Scan# 138
Delta R.T. 0.003 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 58 Resp: 795780

Ion	Ratio	Lower	Upper
58	100		
43	318.7	0.0	0.0#

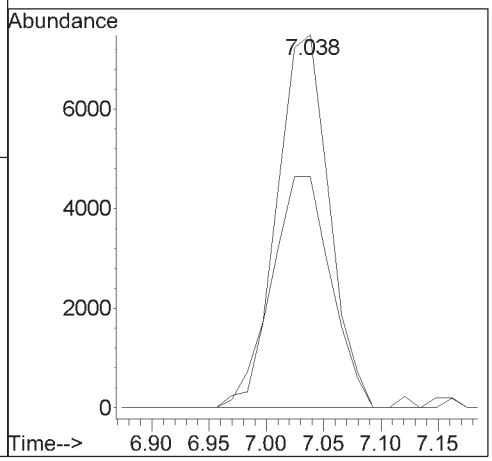


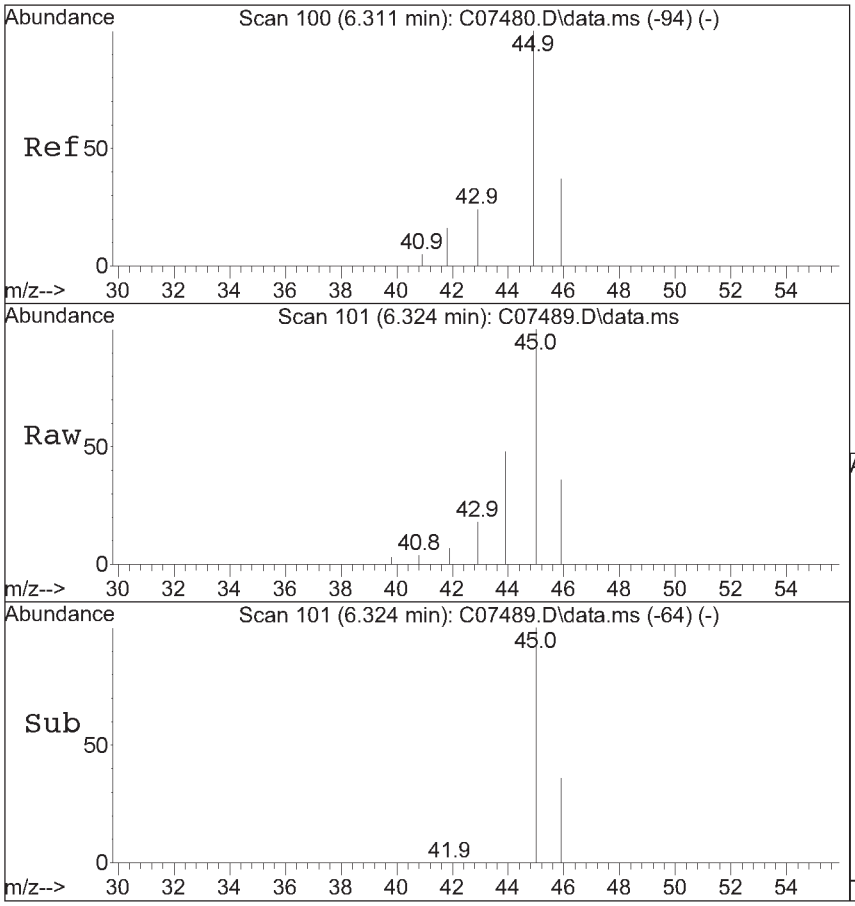


#12
TRICHLOROFLUOROMETHANE
Concen: 0.25 PPBv
RT: 7.038 min Scan# 153
Delta R.T. 0.006 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion:101 Resp: 240701

Ion	Ratio	Lower	Upper
101	100		
103	68.8	0.0	0.0#

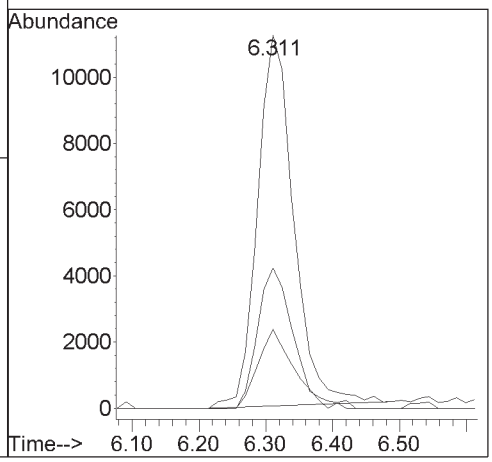


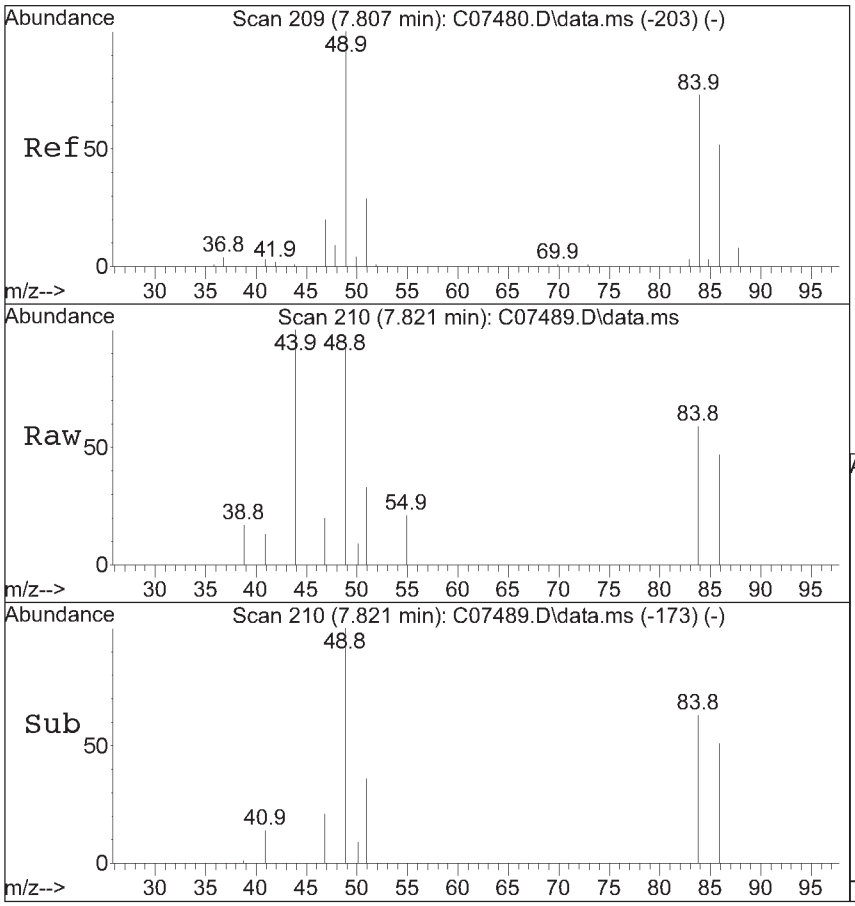


#13
ETHANOL
Concen: 4.83 PPBv
RT: 6.318 min Scan# 101
Delta R.T. 0.001 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 45 Resp: 421018

Ion	Ratio	Lower	Upper
45	100		
46	37.6	0.0	0.0#
43	0.0	0.0	0.0

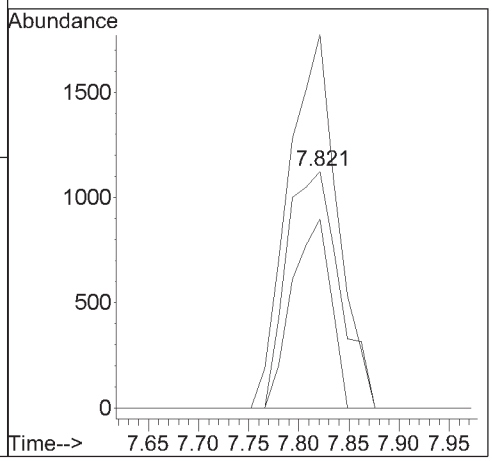


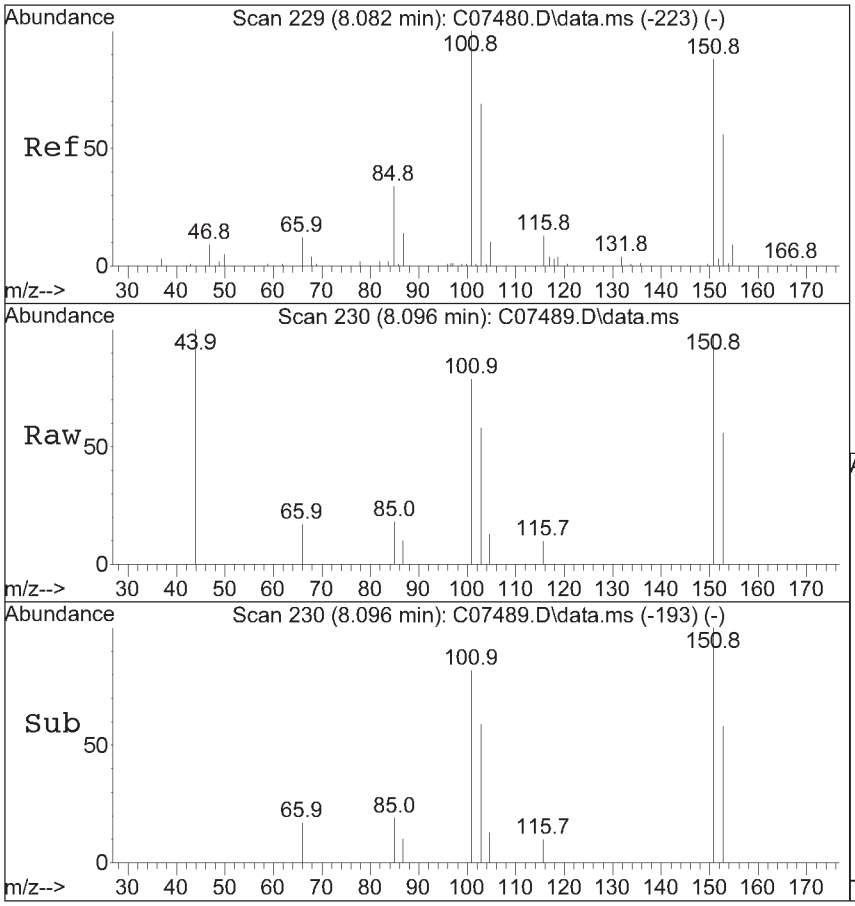


#17
METHYLENE CHLORIDE
Concen: 0.15 PPBv
RT: 7.819 min Scan# 210
Delta R.T. 0.007 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 84 Resp: 41145

Ion	Ratio	Lower	Upper
84	100		
49	147.0	0.0	0.0#
86	58.8	0.0	0.0#

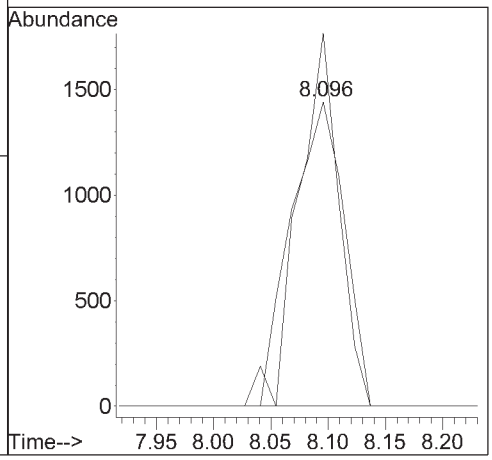


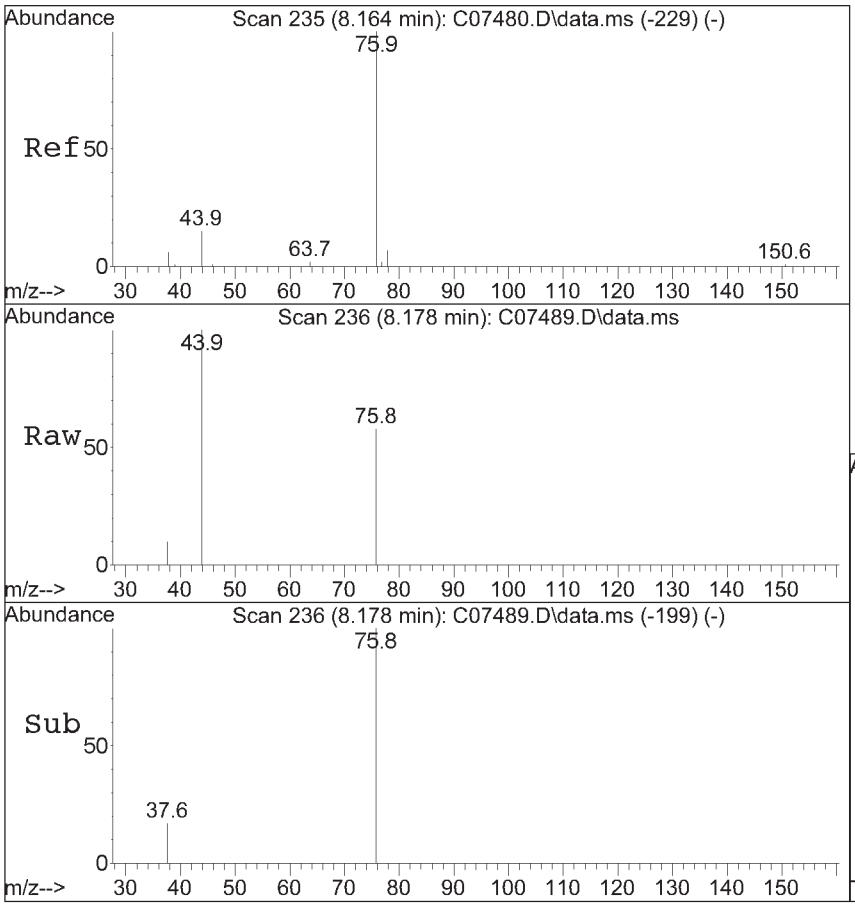


#18
FREON 113
Concen: 0.08 PPBv
RT: 8.100 min Scan# 230
Delta R.T. 0.012 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion:101 Resp: 46469

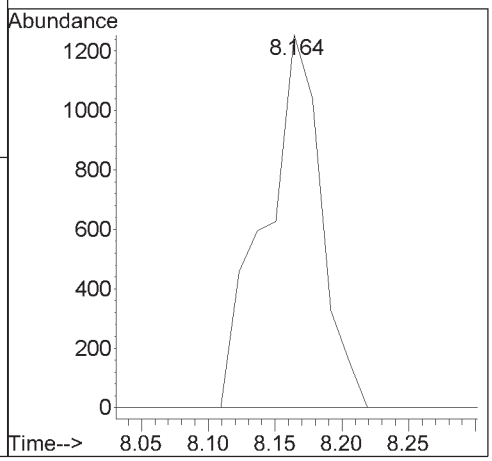
Ion	Ratio	Lower	Upper
101	100		
151	93.5	0.0	0.0#

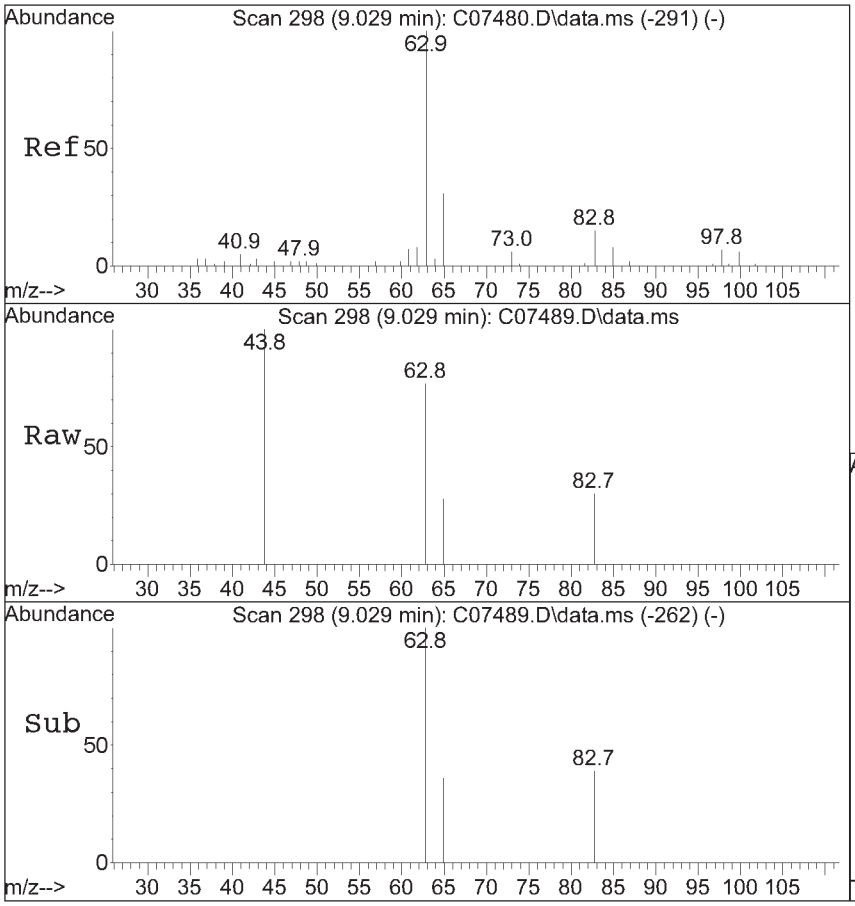




#19
CARBON DISULFIDE
Concen: 0.06 PPBv
RT: 8.173 min Scan# 236
Delta R.T. 0.007 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 76 Resp: 36727

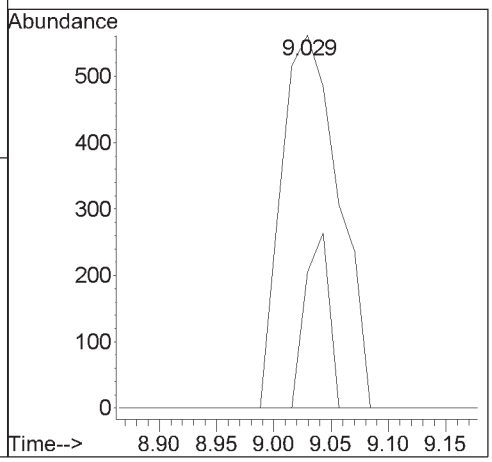


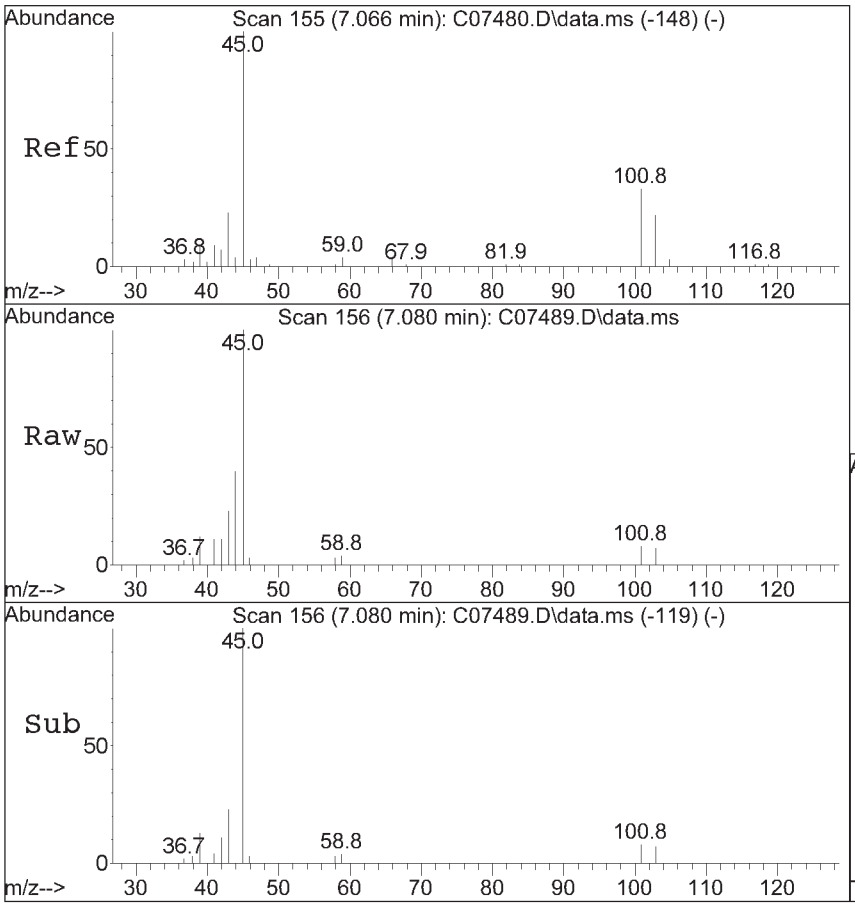


#21
1,1-DICHLOROETHANE
Concen: 0.05 PPBv
RT: 9.033 min Scan# 298
Delta R.T. 0.002 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 63 Resp: 19521

Ion	Ratio	Lower	Upper
63	100		
65	0.0	0.0	0.0
68	0.0	0.0	0.0

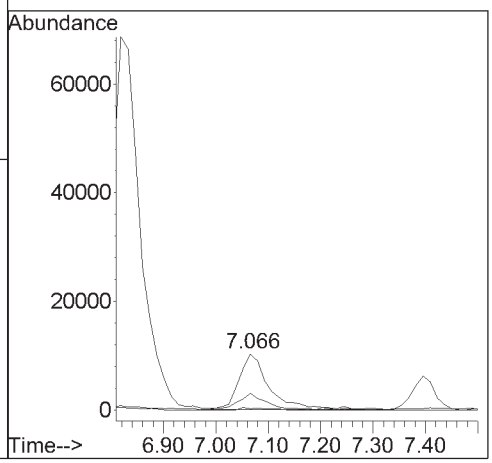


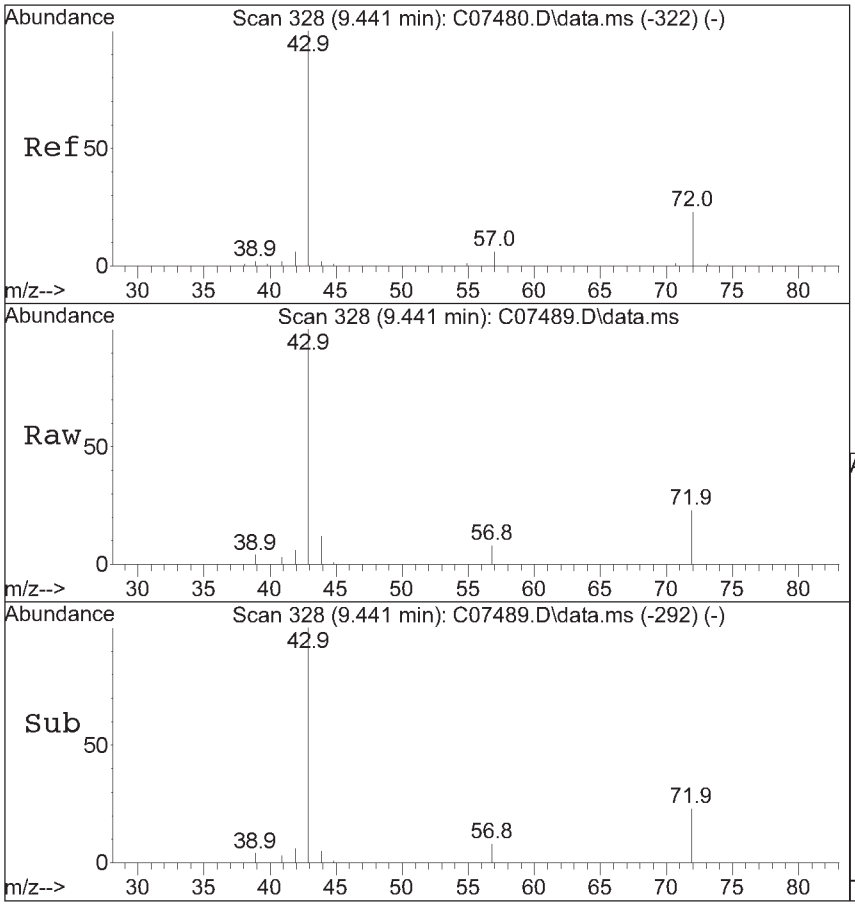


#24
IPA
Concen: 0.90 PPBv
RT: 7.074 min Scan# 156
Delta R.T. 0.008 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 45 Resp: 414490

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	0.0
59	0.0	0.0	0.0

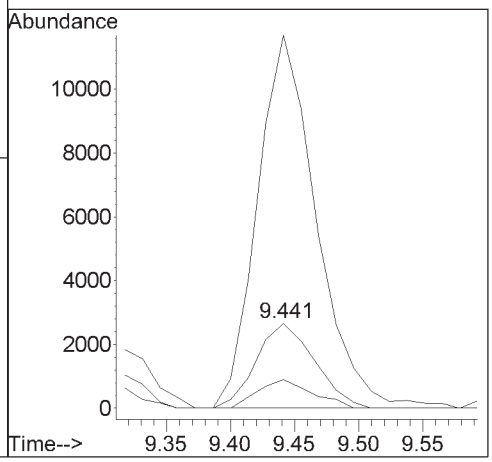


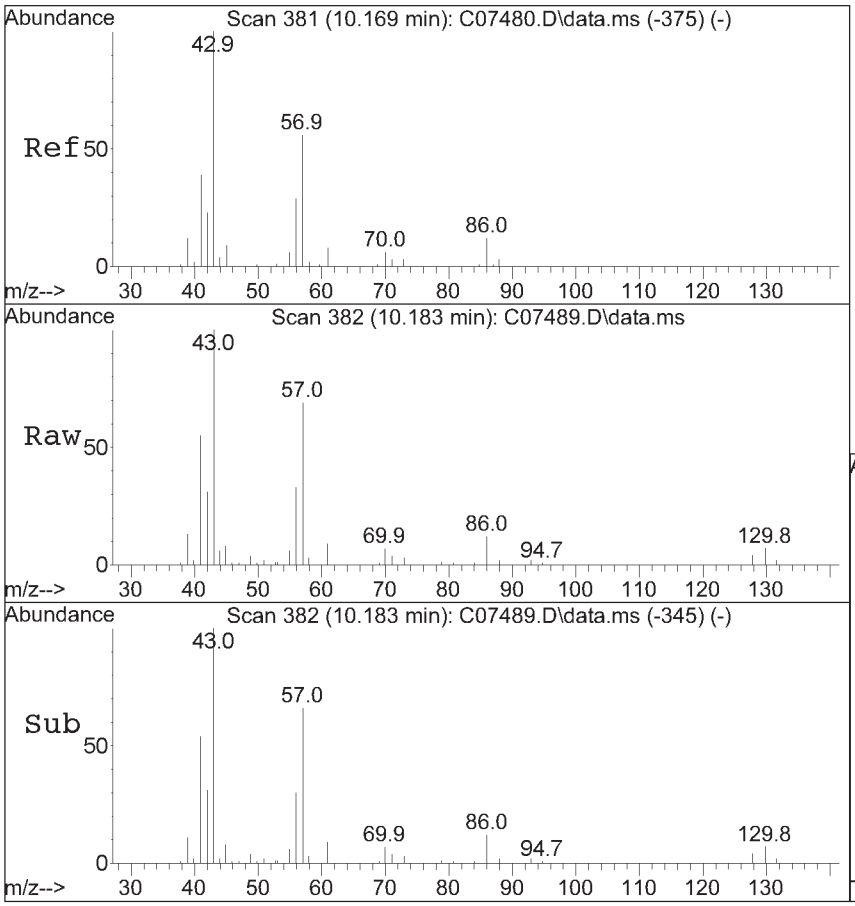


#25
2-BUTANONE (MEK)
Concen: 0.80 PPBv
RT: 9.446 min Scan# 328
Delta R.T. 0.006 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 72 Resp: 84039

Ion	Ratio	Lower	Upper
72	100		
57	31.5	0.0	0.0#
43	446.2	0.0	0.0#

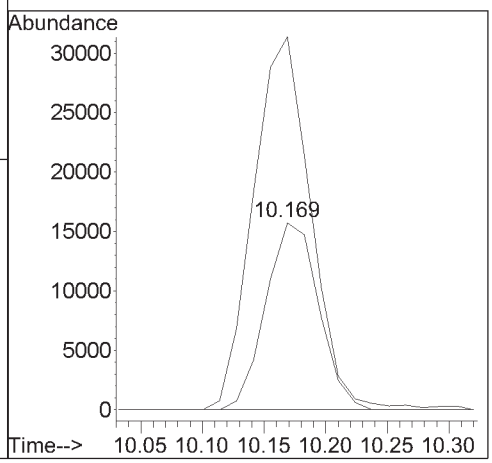


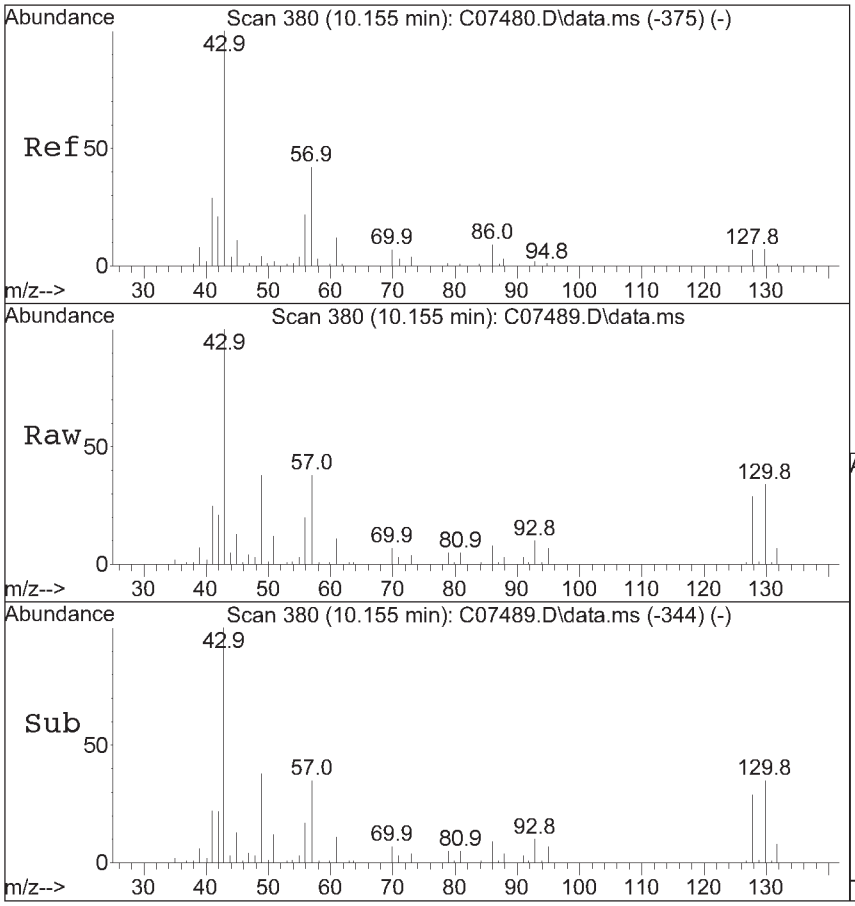


#27
HEXANE
Concen: 1.33 PPBv
RT: 10.179 min Scan# 382
Delta R.T. 0.005 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 57 Resp: 471849

Ion	Ratio	Lower	Upper
57	100		
43	212.2	0.0	0.0#

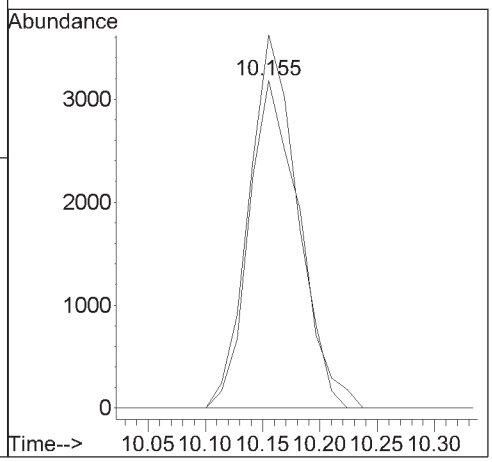


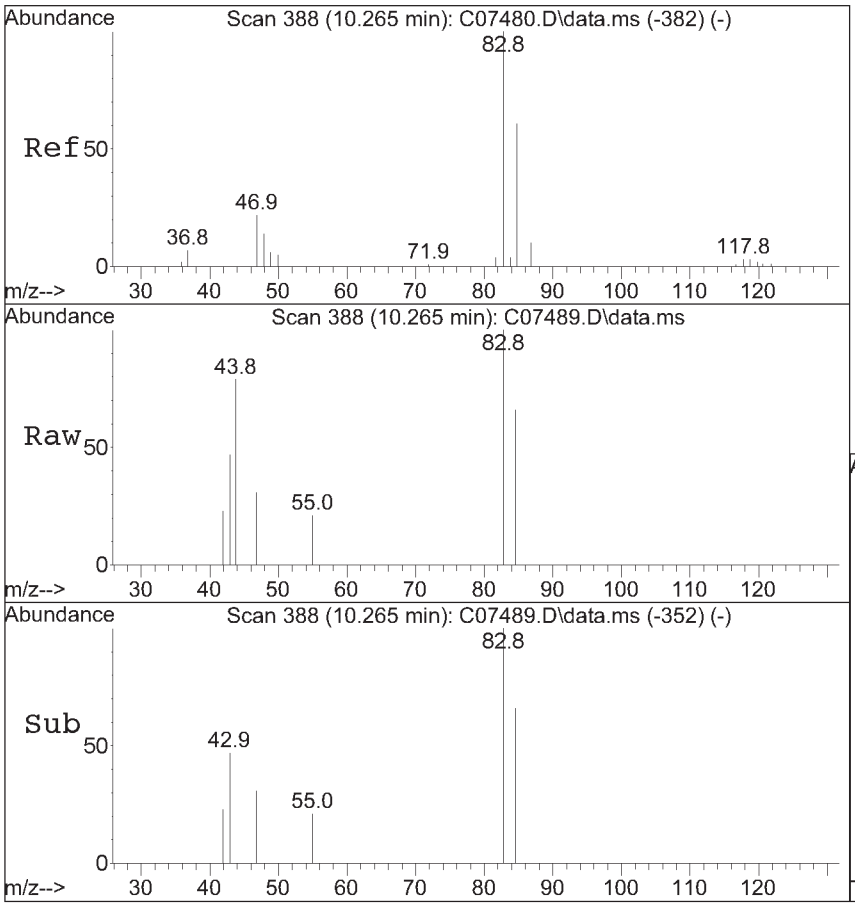


#28
ETHYL ACETATE
Concen: 1.38 PPBv
RT: 10.162 min Scan# 380
Delta R.T. 0.002 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 61 Resp: 97955

Ion	Ratio	Lower	Upper
61	100		
45	108.5	0.0	0.0#

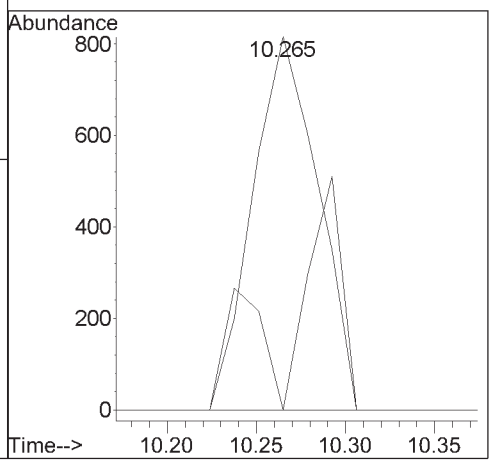


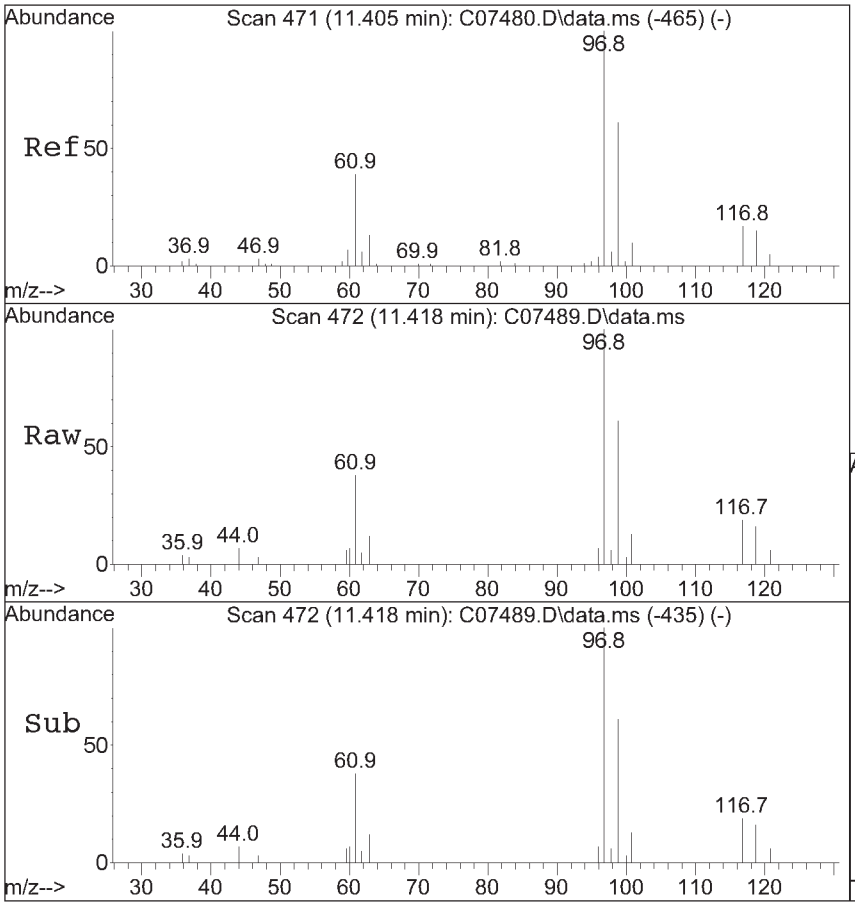


#29
CHLOROFORM
Concen: 0.05 PPBv
RT: 10.271 min Scan# 388
Delta R.T. 0.001 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 83 Resp: 20828

Ion	Ratio	Lower	Upper
83	100		
85	0.0	0.0	0.0

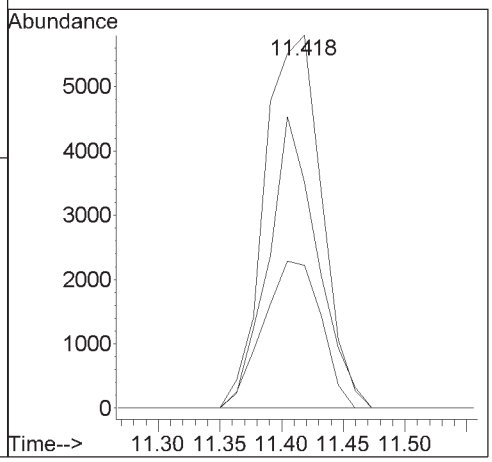


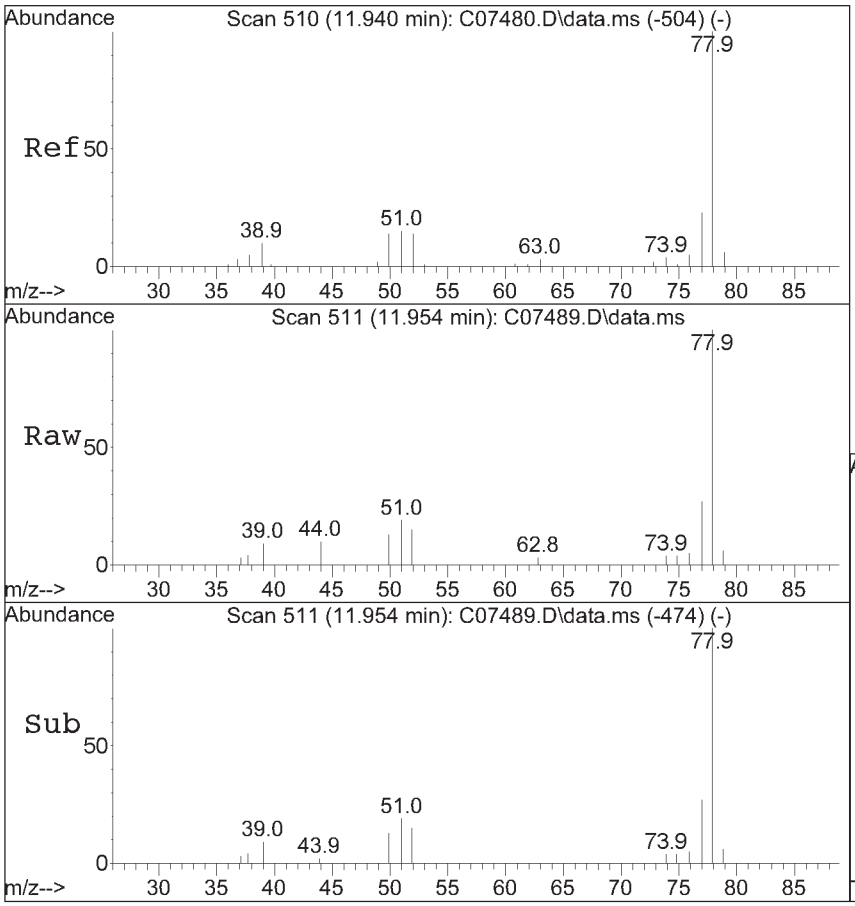


#32
1,1,1-TRICHLOROETHANE
Concen: 0.42 PPBv
RT: 11.416 min Scan# 472
Delta R.T. 0.006 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 97 Resp: 186618

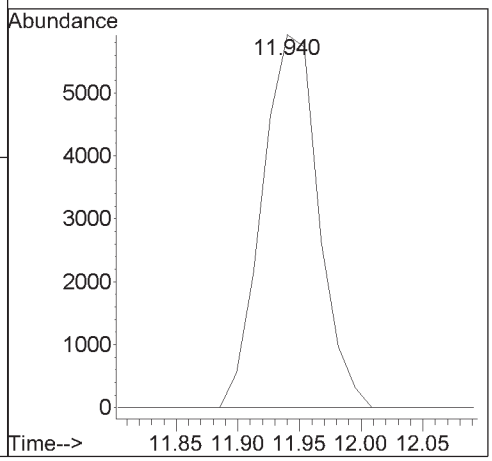
Ion	Ratio	Lower	Upper
97	100		
99	67.3	0.0	0.0#
61	40.1	0.0	0.0#

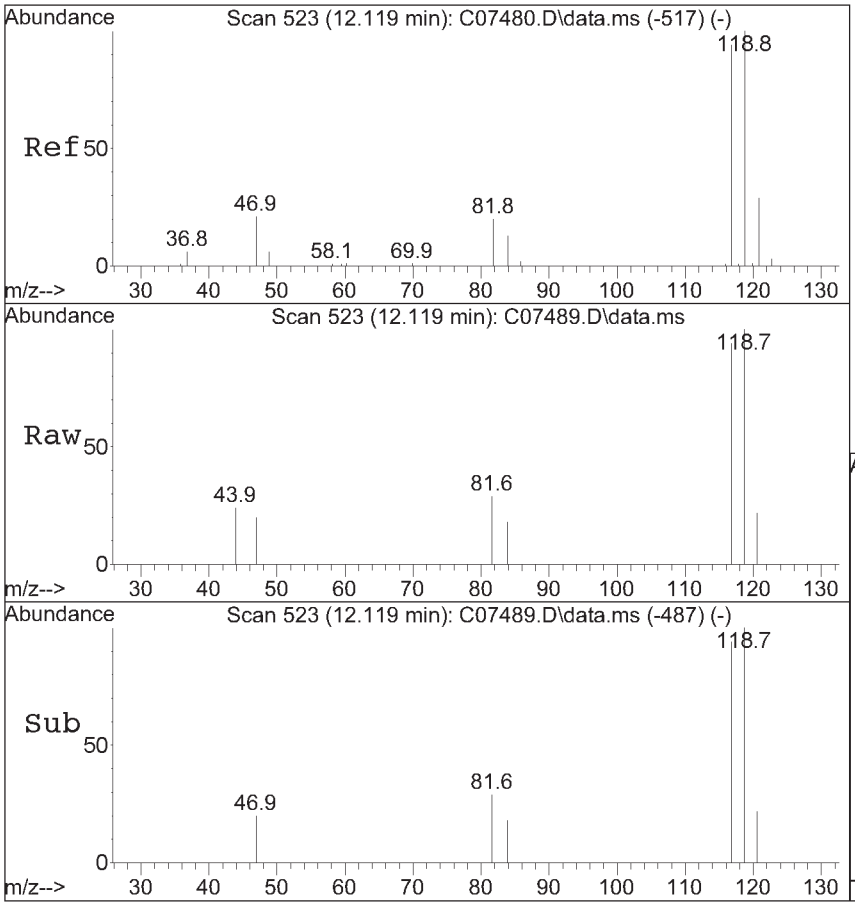




#33
BENZENE
Concen: 0.26 PPBv
RT: 11.950 min Scan# 511
Delta R.T. 0.004 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 78 Resp: 188805

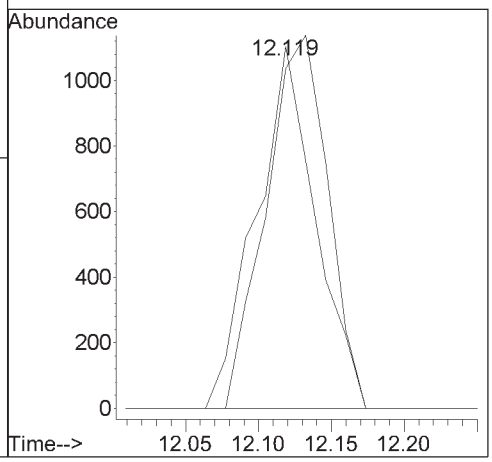


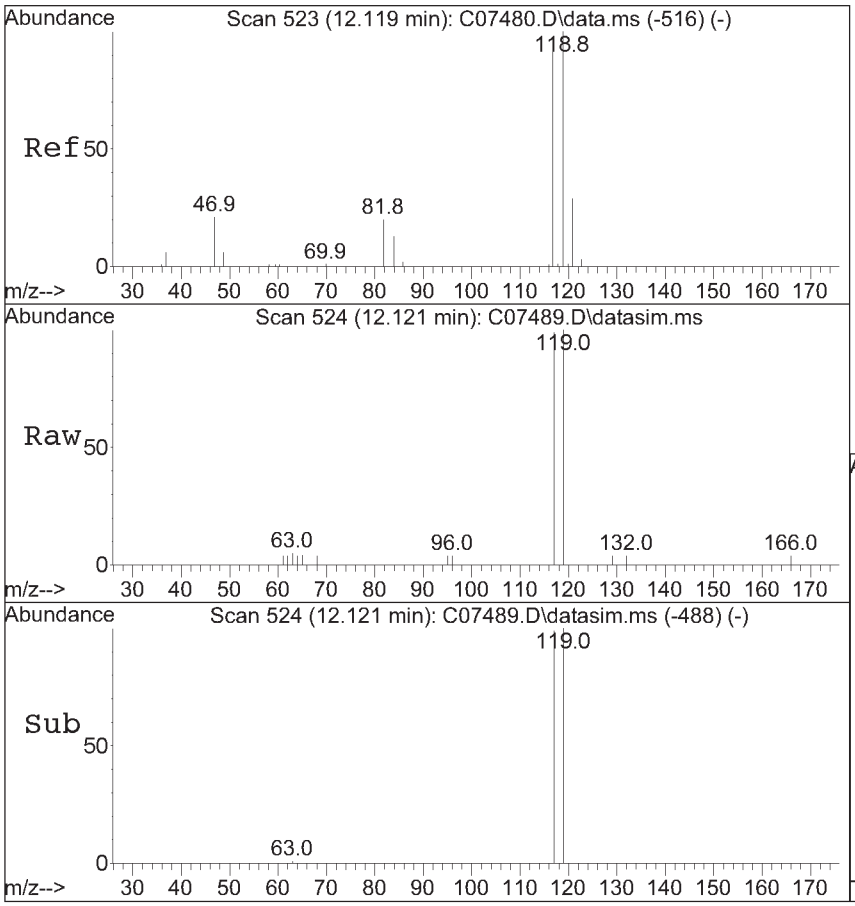


#34
CARBON TETRACHLORIDE
Concen: 0.06 PPBv
RT: 12.124 min Scan# 523
Delta R.T. 0.002 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion:119 Resp: 31244

Ion	Ratio	Lower	Upper
119	100		
117	107.3	0.0	0.0#

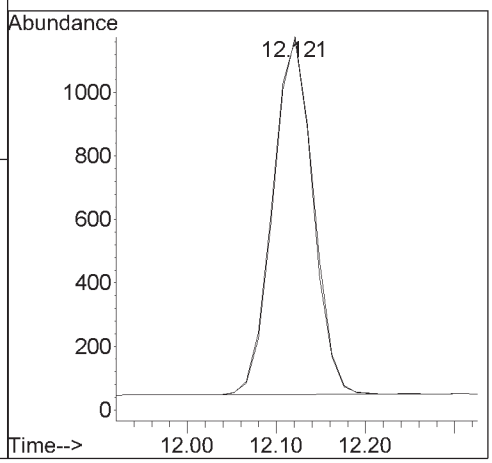


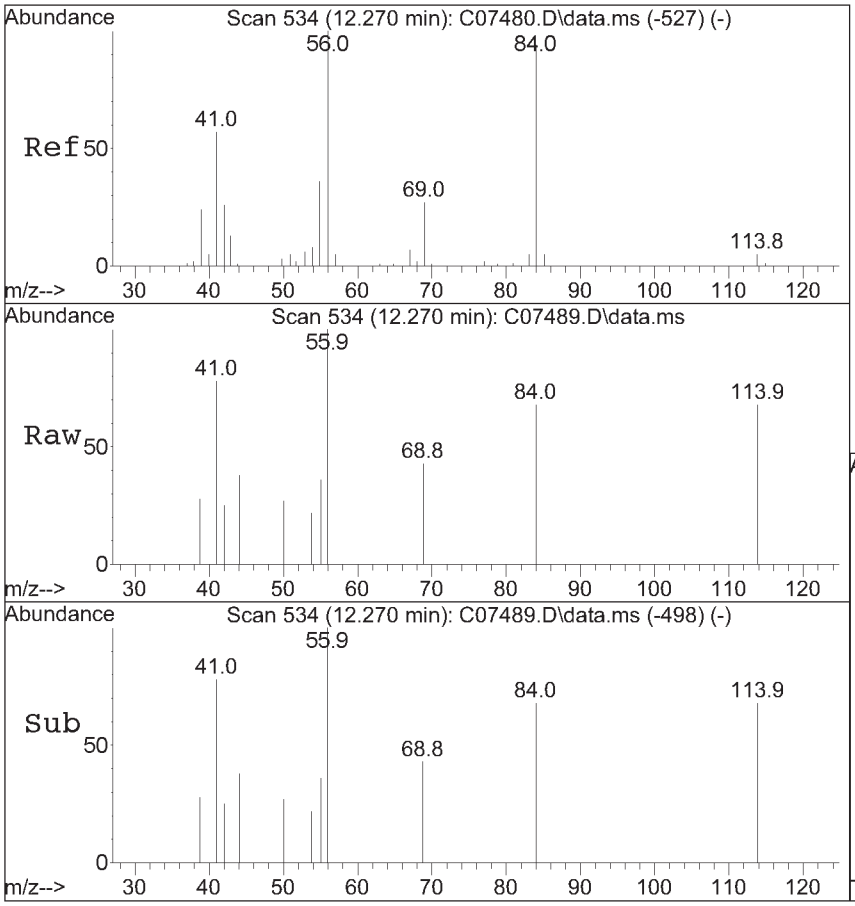


#35
CARBON TETRACHLORIDE (SIM)
Concen: 0.05 PPBv
RT: 12.124 min Scan# 524
Delta R.T. 0.002 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion:119 Resp: 35218

Ion	Ratio	Lower	Upper
119	100		
117	99.7	0.0	0.0#

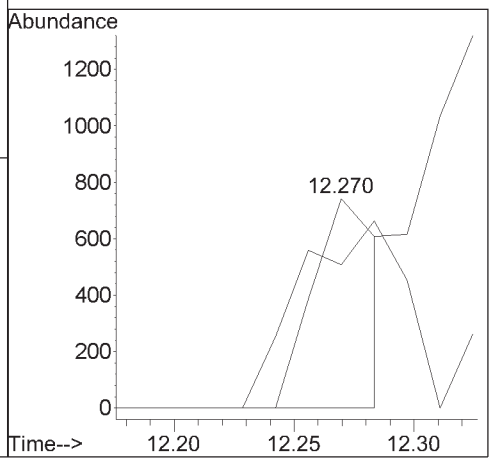


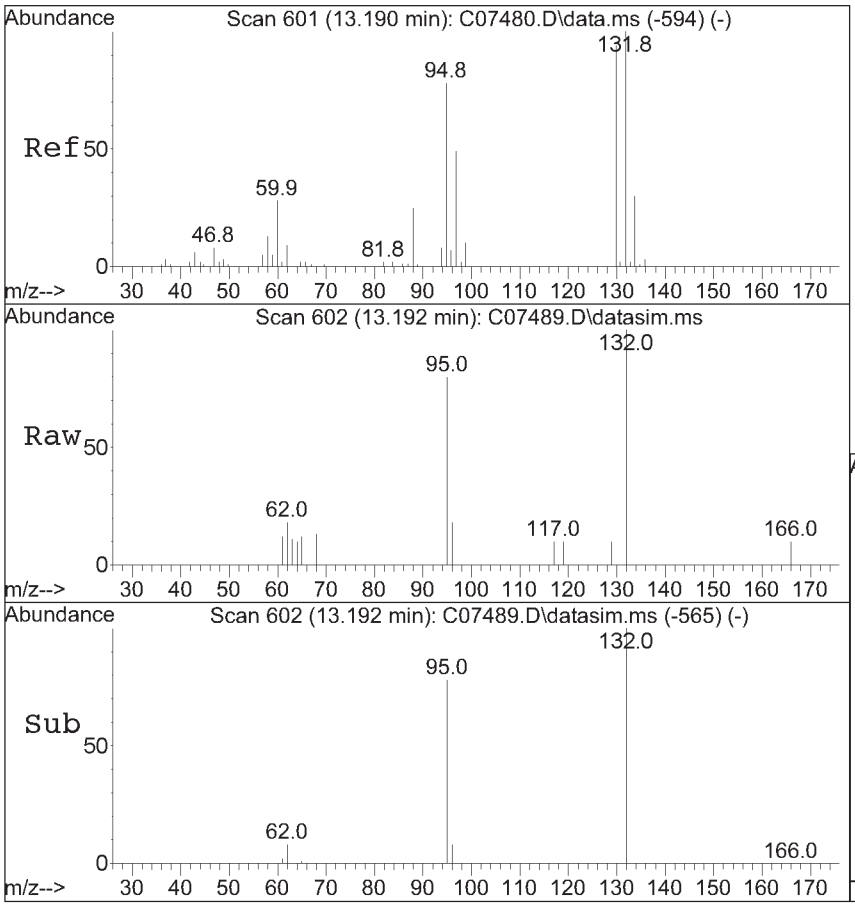


#36
CYCLOHEXANE
Concen: 0.04 PPBv m
RT: 12.270 min Scan# 534
Delta R.T. -0.000 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 56 Resp: 14802

Ion	Ratio	Lower	Upper
56	100		
84	0.0	0.0	0.0

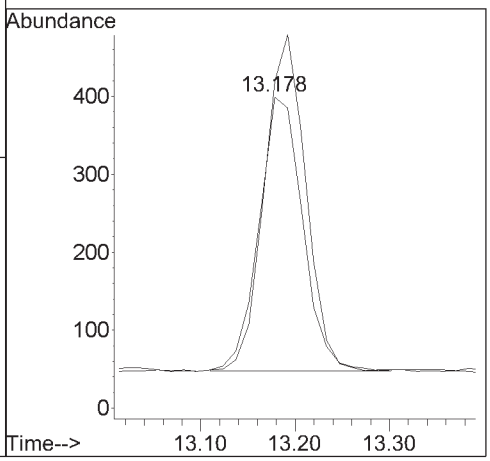


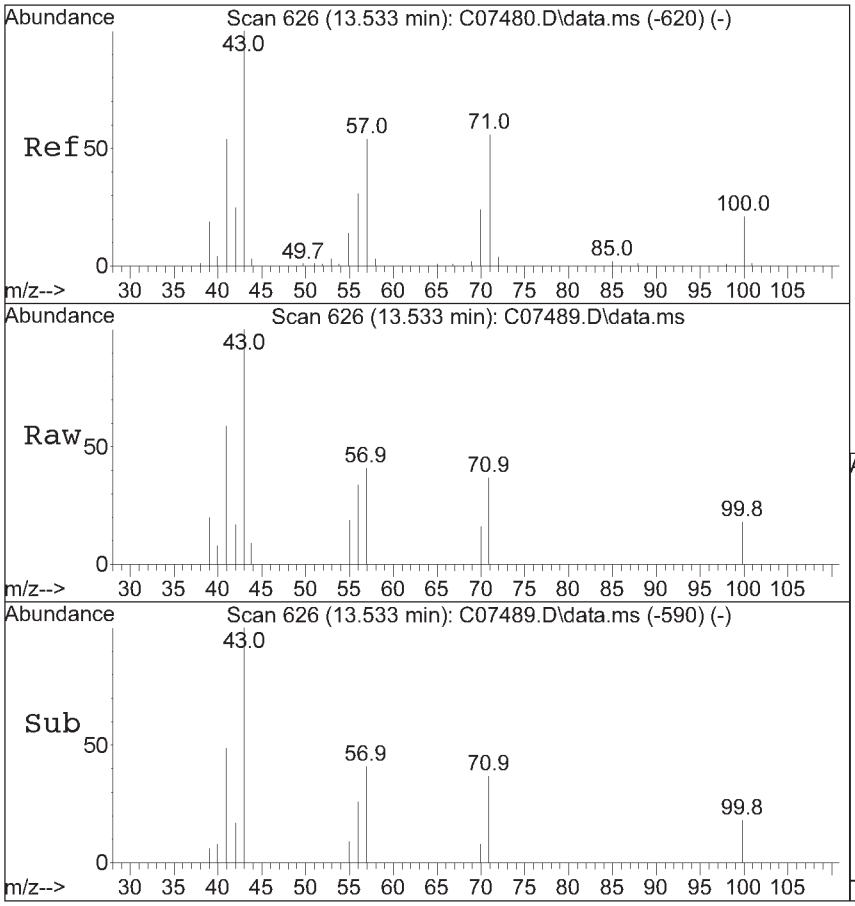


#41
TRICHLOROETHENE (SIM)
Concen: 0.02 PPBv
RT: 13.190 min Scan# 602
Delta R.T. 0.002 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 95 Resp: 11286

Ion	Ratio	Lower	Upper
95	100		
132	115.9	0.0	0.0#

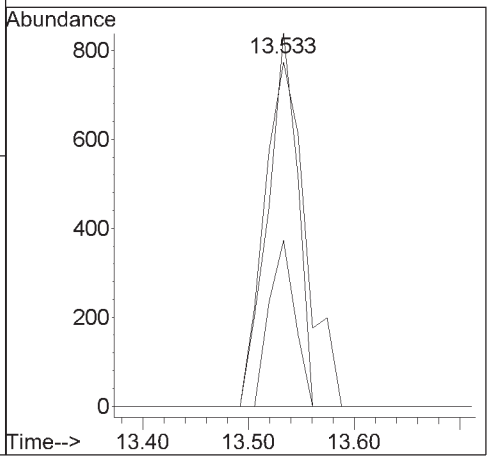


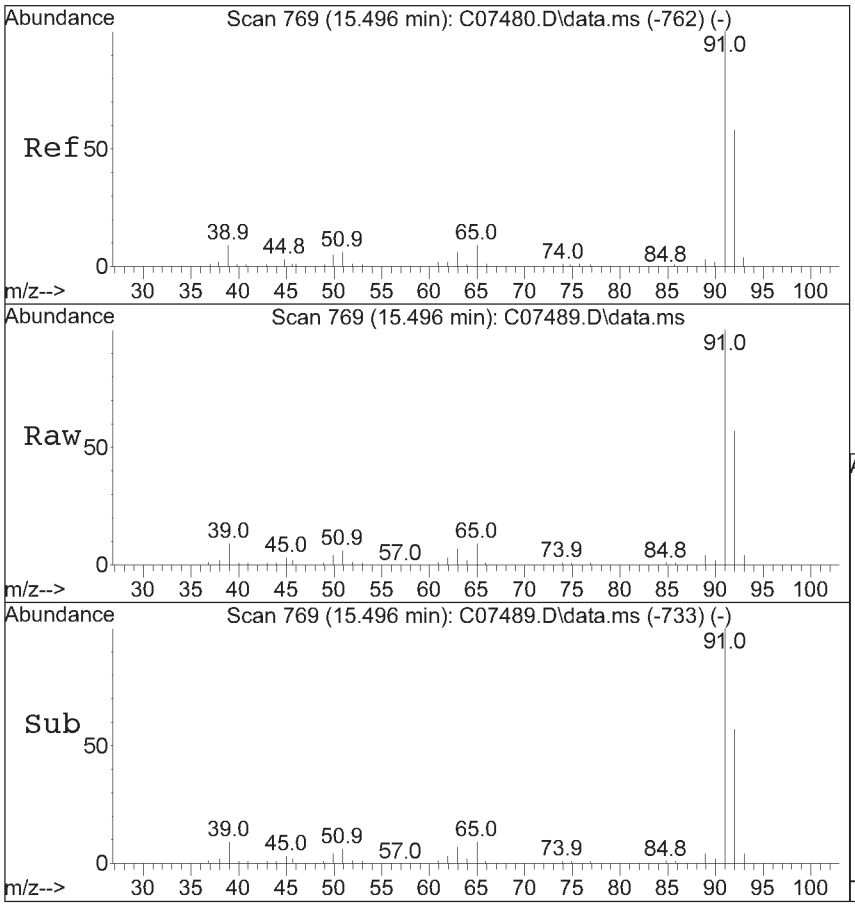


#43
HEPTANE
Concen: 0.07 PPBv m
RT: 13.533 min Scan# 626
Delta R.T. -0.002 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 57 Resp: 16523

Ion	Ratio	Lower	Upper
57	100		
71	0.0	0.0	0.0
100	0.0	0.0	0.0

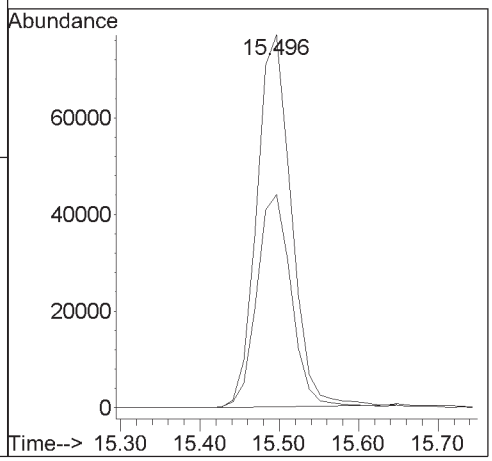


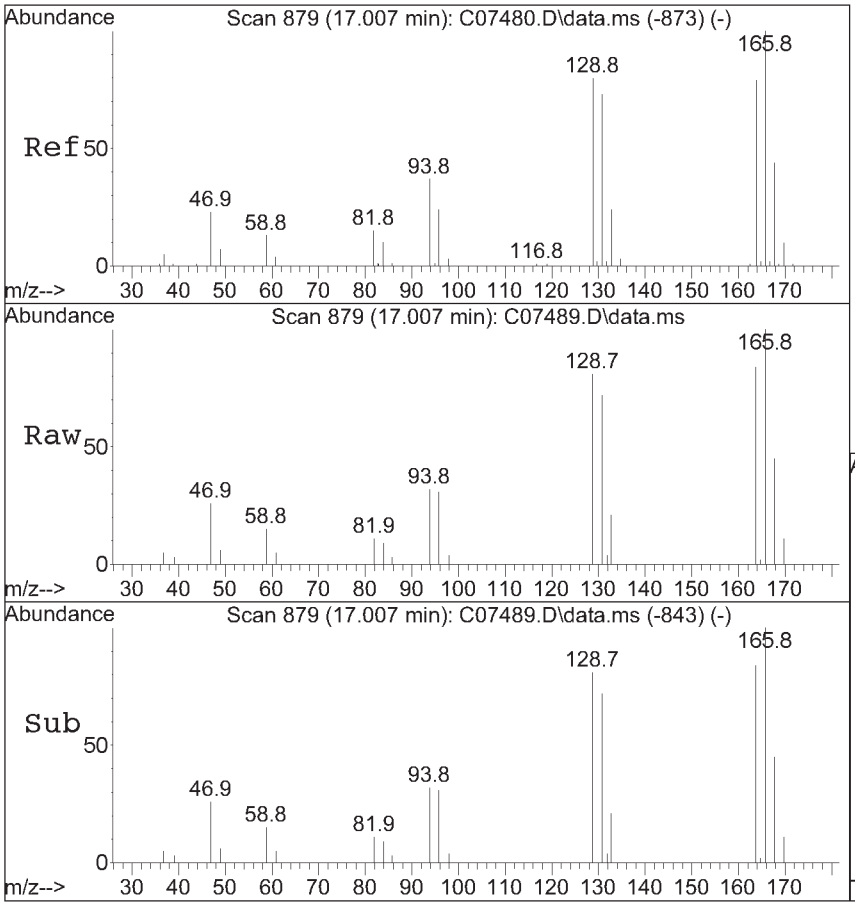


#48
TOLUENE
Concen: 2.56 PPBv
RT: 15.498 min Scan# 769
Delta R.T. 0.002 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 91 Resp: 2318930

Ion	Ratio	Lower	Upper
91	100		
92	57.2	0.0	0.0#

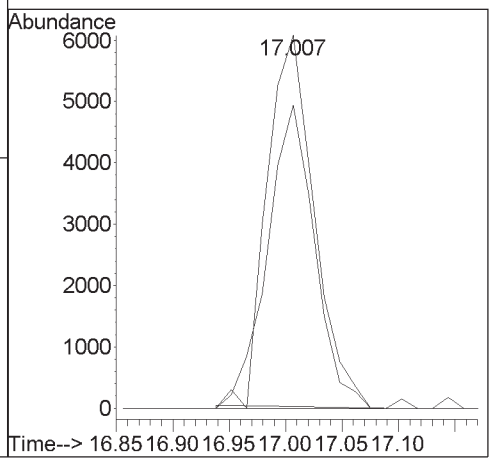


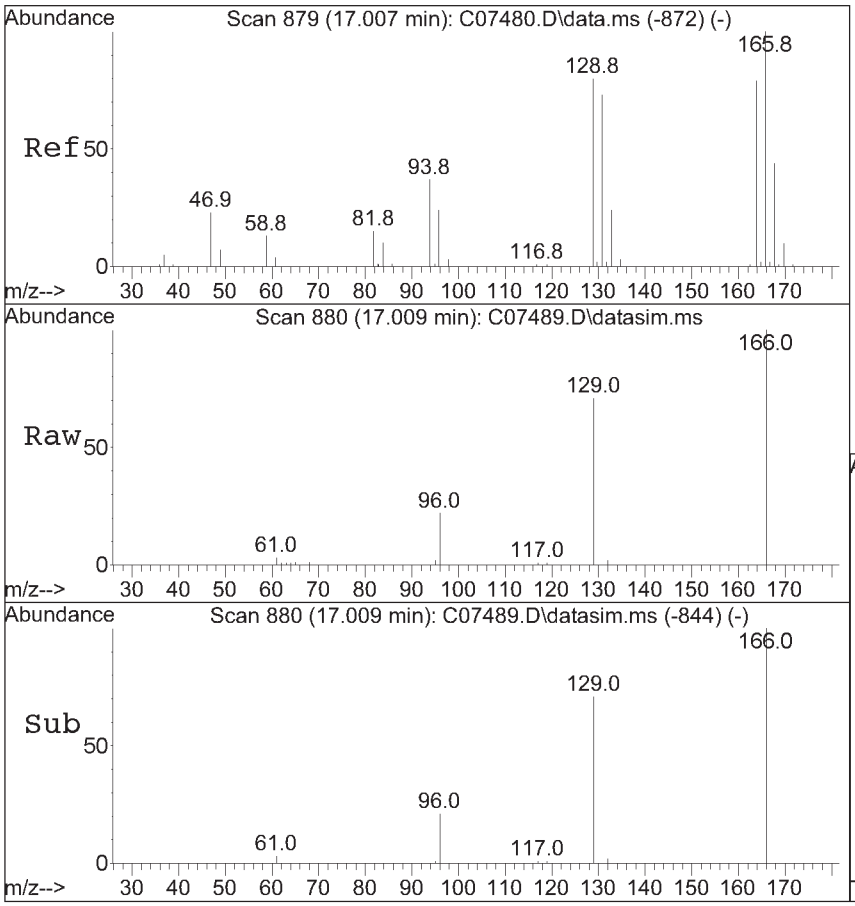


#52
TETRACHLOROETHENE
Concen: 0.37 PPBv
RT: 17.009 min Scan# 879
Delta R.T. 0.001 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion:166 Resp: 174672

Ion	Ratio	Lower	Upper
166	100		
129	82.5	0.0	0.0#
138	0.0	0.0	0.0

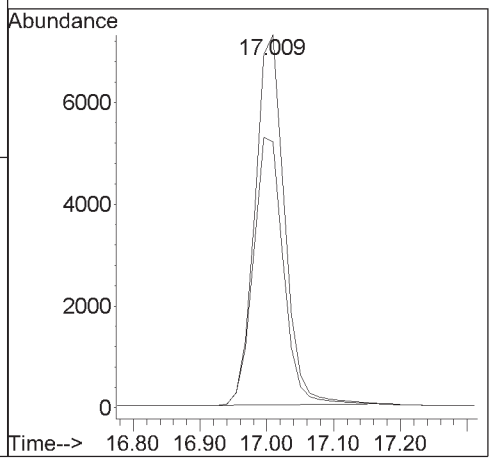


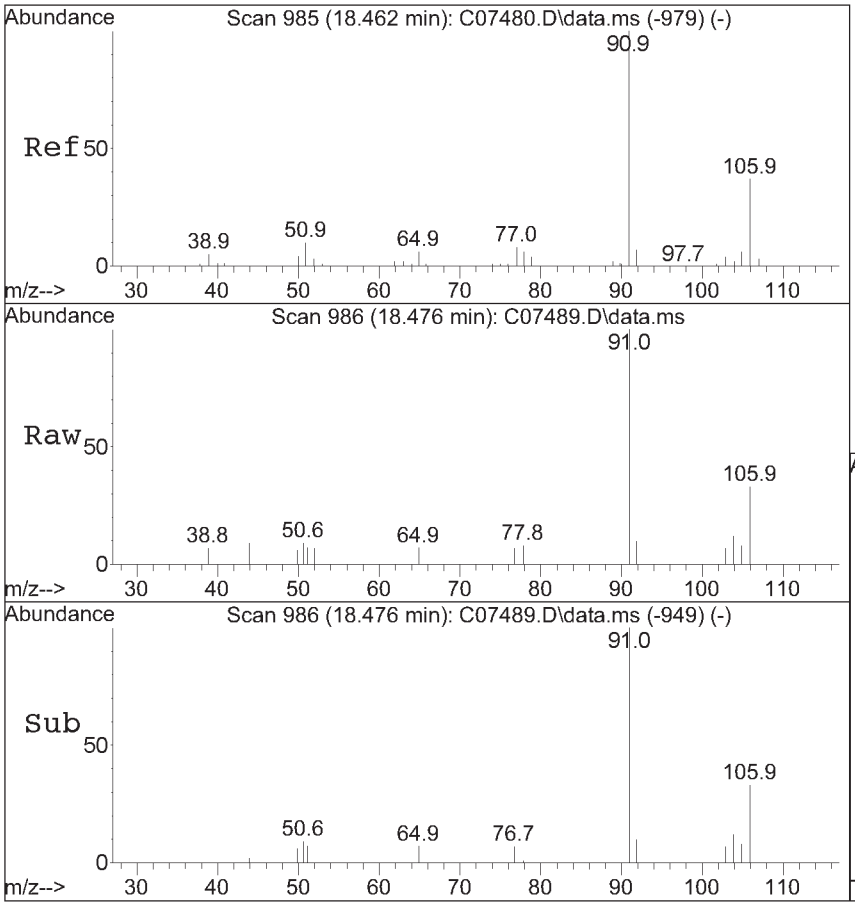


#53
TETRACHLOROETHENE (SIM)
Concen: 0.41 PPBv
RT: 17.009 min Scan# 880
Delta R.T. 0.000 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion:166 Resp: 223063

Ion	Ratio	Lower	Upper
166	100		
129	73.4	0.0	0.0#

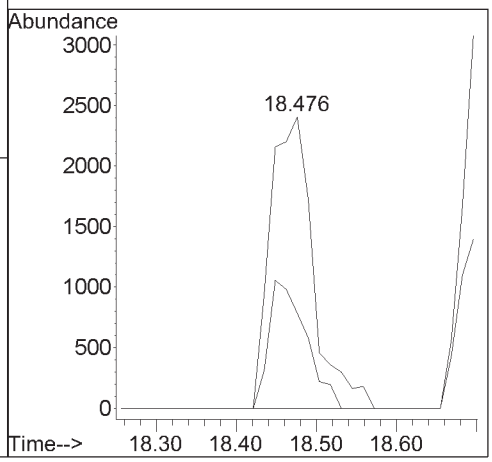


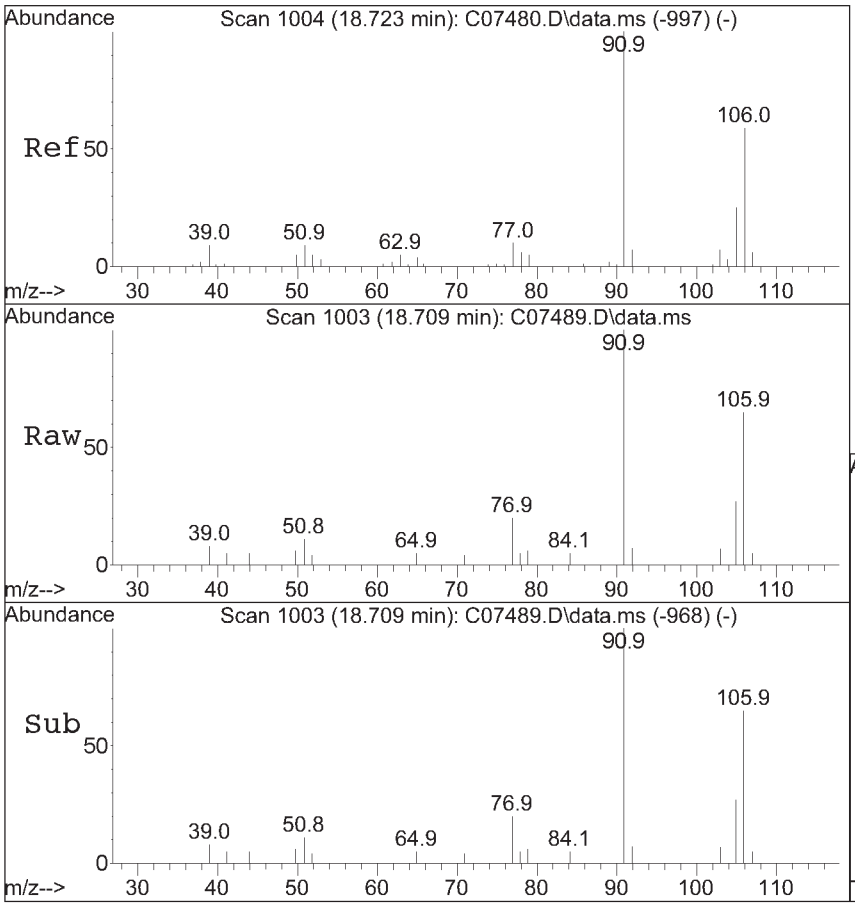


#57
ETHYLBENZENE
Concen: 0.08 PPBv
RT: 18.475 min Scan# 986
Delta R.T. 0.006 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion: 91 Resp: 89719

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

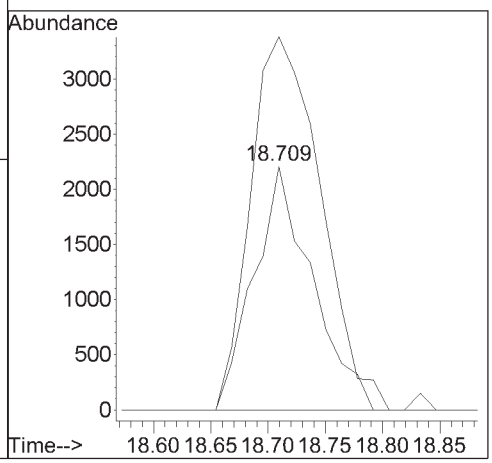


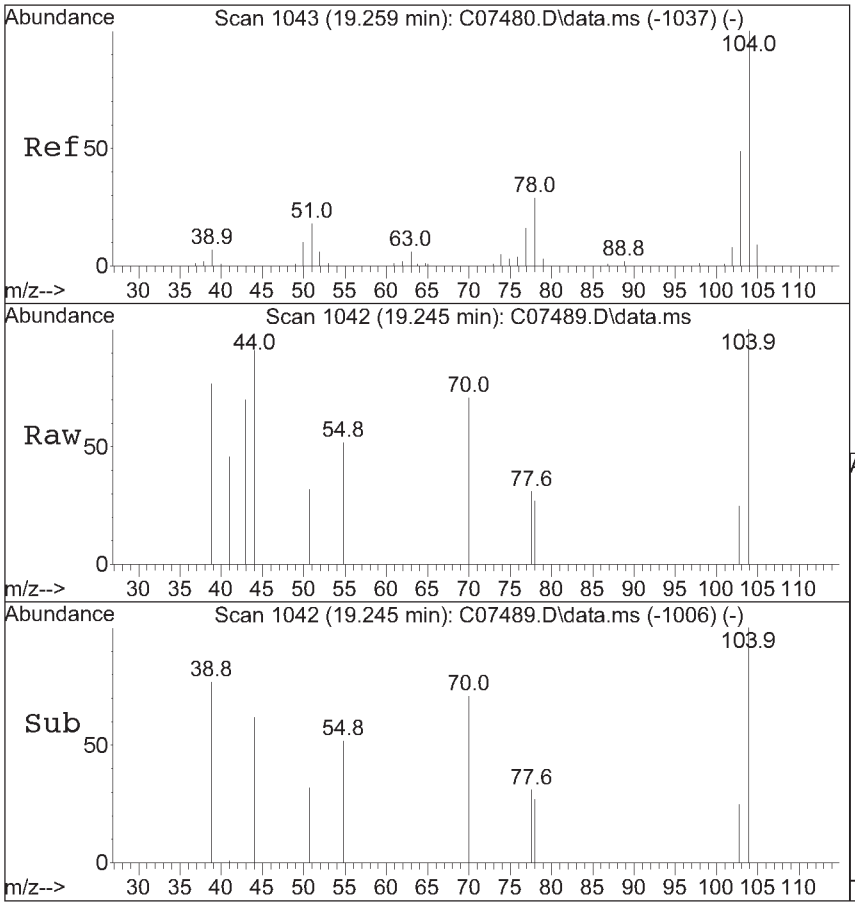


#58
M/P-XYLENE
Concen: 0.15 PPBv
RT: 18.715 min Scan# 1003
Delta R.T. -0.011 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion:106 Resp: 77946

Ion	Ratio	Lower	Upper
106	100		
91	185.1	0.0	0.0#

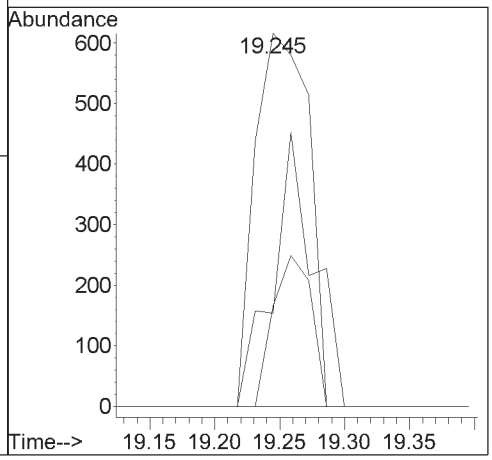


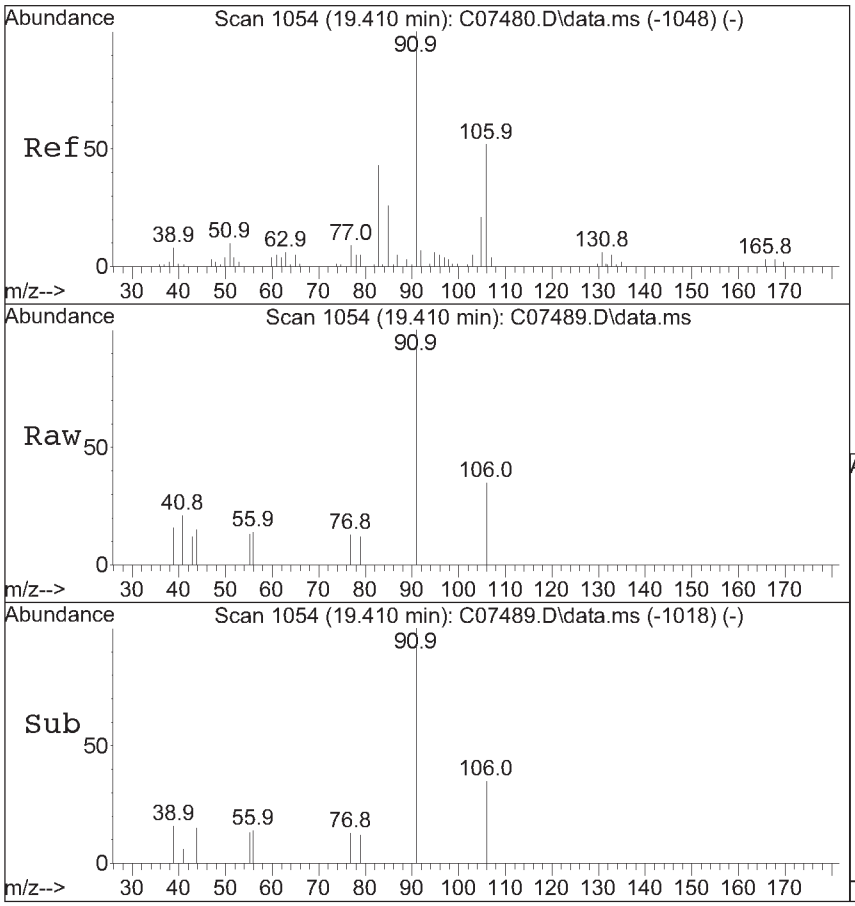


#60
STYRENE
Concen: 0.03 PPBv m
RT: 19.245 min Scan# 1042
Delta R.T. -0.011 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion:104 Resp: 17700

Ion	Ratio	Lower	Upper
104	100		
103	0.0	0.0	0.0
78	0.0	0.0	0.0

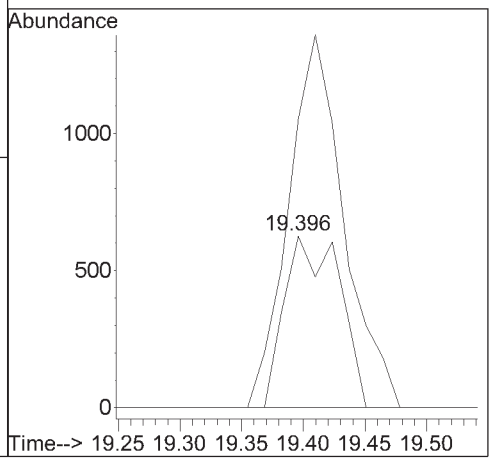




#61
O-XYLENE
Concen: 0.04 PPBv
RT: 19.404 min Scan# 1054
Delta R.T. -0.013 min
Lab File: C07489.D
Acq: 10 Mar 2011 6:45 pm

Tgt Ion:106 Resp: 19457

Ion	Ratio	Lower	Upper
106	100		
91	217.9	0.0	0.0#



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

SG-1-030311

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-09	File ID:	C07490.D
Sampled:	03/03/11 11:10			Analyzed:	03/10/11 19:39
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010	Instrument:	Air4

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
71-55-6	1,1,1-Trichloroethane	0.11000	0.60	
115-07-1	Propene	1.0800	1.86	
75-71-8	Dichlorodifluoromethane (Freon12)	0.43000	2.13	
74-87-3	Chloromethane	0.23000	0.48	
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.057000	0.40	U
75-01-4	Vinyl chloride	0.064000	0.16	U
106-99-0	1,3-Butadiene	0.055000	0.12	U
74-83-9	Bromomethane	0.052000	0.20	U
75-00-3	Chloroethane	0.076000	0.20	U
67-64-1	Acetone	9.8400	23.38	
75-69-4	Trichlorofluoromethane (Freon 11)	0.26000	1.46	
64-17-5	Ethanol	1.3400	2.53	
75-35-4	1,1-Dichloroethene	0.073000	0.29	U
107-13-1	Acrylonitrile	0.064000	0.14	U
75-09-2	Methylene chloride	0.090000	0.31	J
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.090000	0.69	J
75-15-0	Carbon disulfide	0.057000	0.18	U
156-60-5	trans-1,2-Dichloroethene	0.042000	0.17	U
75-34-3	1,1-Dichloroethane	0.049000	0.20	U
1634-04-4	Methyl tert-butyl ether	0.049000	0.18	U
67-63-0	Isopropyl alcohol	0.34000	0.83	J
78-93-3	2-Butanone (MEK)	0.87000	2.57	
156-59-2	cis-1,2-Dichloroethene	0.049000	0.19	U
110-54-3	Hexane	0.50000	1.76	
141-78-6	Ethyl acetate	0.082000	0.30	U
67-66-3	Chloroform	0.045000	0.22	U
109-99-9	Tetrahydrofuran	0.053000	0.16	U
107-06-2	1,2-Dichloroethane	0.046000	0.19	U
71-43-2	Benzene	0.51000	1.63	
56-23-5	Carbon tetrachloride	0.080000	0.50	J
110-82-7	Cyclohexane	0.081000	0.28	U
78-87-5	1,2-Dichloropropane	0.049000	0.23	U
75-27-4	Bromodichloromethane	0.053000	0.36	U
79-01-6	Trichloroethene	0.052000	0.28	U
123-91-1	1,4-Dioxane	0.067000	0.24	U
142-82-5	n-Heptane	0.20000	0.82	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.053000	0.22	U
10061-01-5	cis-1,3-Dichloropropene	0.047000	0.21	U
10061-02-6	trans-1,3-Dichloropropene	0.047000	0.21	U
79-00-5	1,1,2-Trichloroethane	0.066000	0.36	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

SG-1-030311

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-09	File ID:	C07490.D
Sampled:	03/03/11 11:10			Analyzed:	03/10/11 19:39
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
108-88-3	Toluene	31.670	119.17	E
591-78-6	2-Hexanone (MBK)	0.042000	0.17	U
124-48-1	Dibromochloromethane	0.059000	0.50	U
106-93-4	1,2-Dibromoethane (EDB)	0.043000	0.33	U
127-18-4	Tetrachloroethene	0.19000	1.29	
108-90-7	Chlorobenzene	0.061000	0.28	U
100-41-4	Ethylbenzene	0.49000	2.12	
630-20-6	1,1,1,2-Tetrachloroethane	0.047000	0.32	U
179601-23-1	m,p-Xylene	1.8600	8.06	
75-25-2	Bromoform	0.046000	0.48	U
100-42-5	Styrene	0.053000	0.23	U
95-47-6	o-Xylene	0.43000	1.86	
79-34-5	1,1,2,2-Tetrachloroethane	0.066000	0.45	U
108-67-8	1,3,5-Trimethylbenzene	0.080000	0.39	J
622-96-8	4-Ethyltoluene	0.17000	0.84	
95-63-6	1,2,4-Trimethylbenzene	0.32000	1.57	
98-82-8	Isopropylbenzene	0.056000	0.28	U
541-73-1	1,3-Dichlorobenzene	0.055000	0.33	U
100-44-7	Benzyl chloride	0.062000	0.32	U
106-46-7	1,4-Dichlorobenzene	0.061000	0.37	U
91-20-3	Naphthalene	0.18300	0.96	U
95-50-1	1,2-Dichlorobenzene	0.053000	0.32	U
120-82-1	1,2,4-Trichlorobenzene	0.053000	0.39	U
87-68-3	Hexachlorobutadiene	0.040000	0.43	U
135-98-8	sec-Butylbenzene	0.052000	0.29	U
99-87-6	4-Isopropyltoluene	0.062000	0.33	U
104-51-8	n-Butylbenzene	0.056000	0.31	U

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07490.D
Acq On : 10 Mar 2011 7:39 pm
Operator : KRL
Sample : sb25245-09 @ sg-1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 11 15:09:37 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	10.142	128	446940	10.00	PPBv	#	0.01
37) 1,4-DIFLUROBENZENE	12.339	114	2338443	10.00	PPBv		0.00
54) CHLOROBENZENE-D5	17.882	54	316359	10.00	PPBv	#	0.00
System Monitoring Compounds							
63) 4-BROMOFLUOROBENZENE	20.103	95	1034131	9.39	PPBv		0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 93.90%#				
Target Compounds							Qvalue
2) PROPENE	5.100	42	153878	1.08	PPBv	#	100
3) DICHLORODIFLUOROMETHANE	5.175	85	278554	0.43	PPBv	#	100
4) CHLOROMETHANE	5.358	50	76266	0.23	PPBv	#	100
11) ACETONE	6.836	58	1349811	9.84	PPBv	#	100
12) TRICHLOROFLUOROMETHANE	7.043	101	233122	0.26	PPBv	#	100
13) ETHANOL	6.328	45	107338	1.34	PPBv	#	100
17) METHYLENE CHLORIDE	7.840	84	23610	0.09	PPBv	#	100
18) FREON 113	8.097	101	50169	0.09	PPBv	#	100
19) CARBON DISULFIDE	8.174	76	27273	0.05	PPBv		100
22] 1,1-DICHLOROETHANE (SIM)	9.035	63	13191	Below Cal		#	100
24) IPA	7.087	45	143438	0.34	PPBv	#	100
25) 2-BUTANONE (MEK)	9.456	72	83714	0.87	PPBv	#	100
27) HEXANE	10.185	57	162514	0.50	PPBv	#	100
29) CHLOROFORM	10.279	83	12719m	0.03	PPBv		
32) 1,1,1-TRICHLOROETHANE	11.420	97	43555	0.11	PPBv	#	100
33) BENZENE	11.951	78	342454	0.51	PPBv		100
34) CARBON TETRACHLORIDE	12.130	119	36622	0.08	PPBv	#	100
35] CARBON TETRACHLORIDE (...	12.128	119	39537	0.06	PPBv	#	100
36) CYCLOHEXANE	12.284	56	25888m	0.08	PPBv		
43) HEPTANE	13.541	57	44113	0.20	PPBv	#	100
48) TOLUENE	15.502	91	26815256	31.67	PPBv	#	100
52) TETRACHLOROETHENE	17.014	166	84459	0.19	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.011	166	109039	0.22	PPBv	#	100
57) ETHYLBENZENE	18.471	91	544352	0.49	PPBv	#	100
58) M/P-XYLENE	18.718	106	1006154	1.86	PPBv	#	100
61) O-XYLENE	19.416	106	219450	0.43	PPBv	#	100
65) 4-ETHYLTOLUENE	21.375	105	212190	0.17	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.510	105	87539m	0.08	PPBv		
67) 1,2,4-TRIMETHYLBENZENE	22.177	105	310472	0.32	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.855	119	38219	0.03	PPBv	#	100
74) N-BUTYLBENZENE	23.493	91	26109	0.02	PPBv	#	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07490.D
Acq On : 10 Mar 2011 7:39 pm
Operator : KRL
Sample : sb25245-09 @ sg-1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 11 15:09:37 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

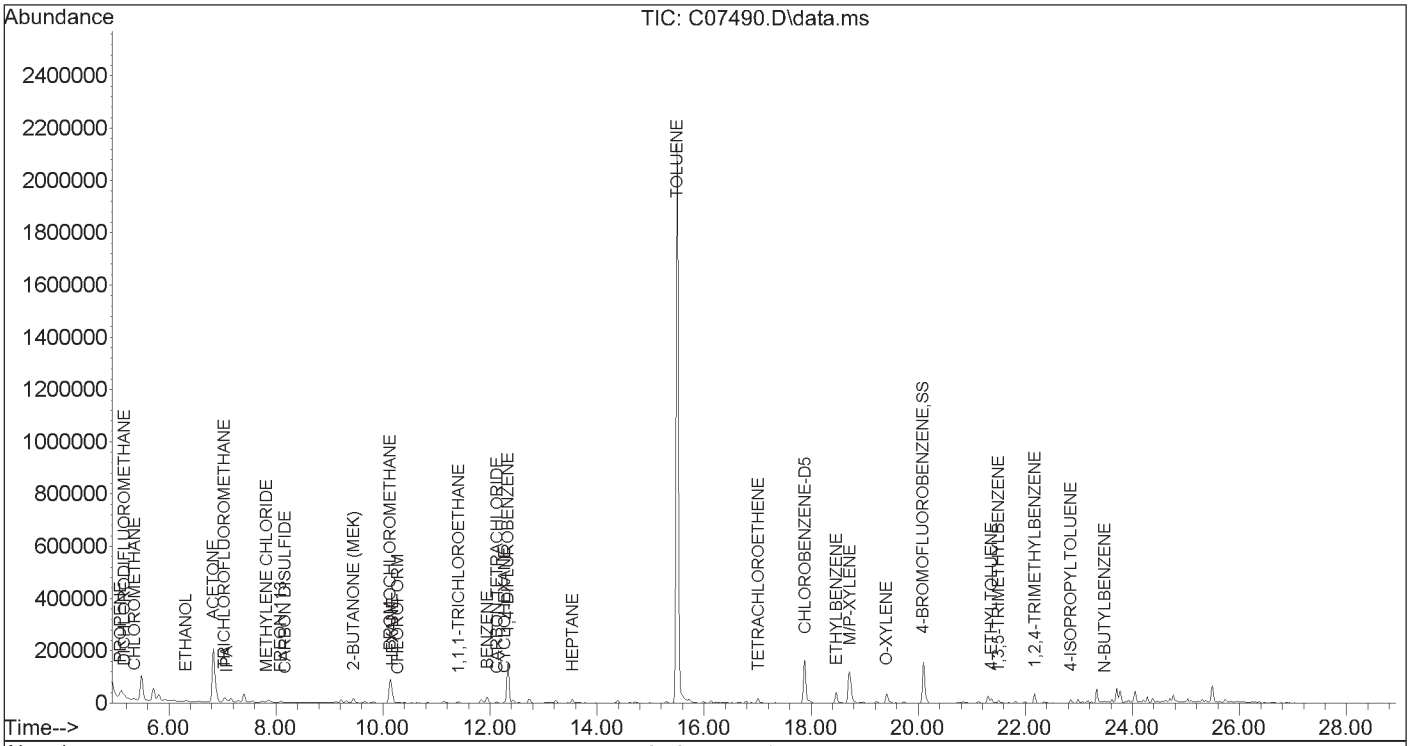
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

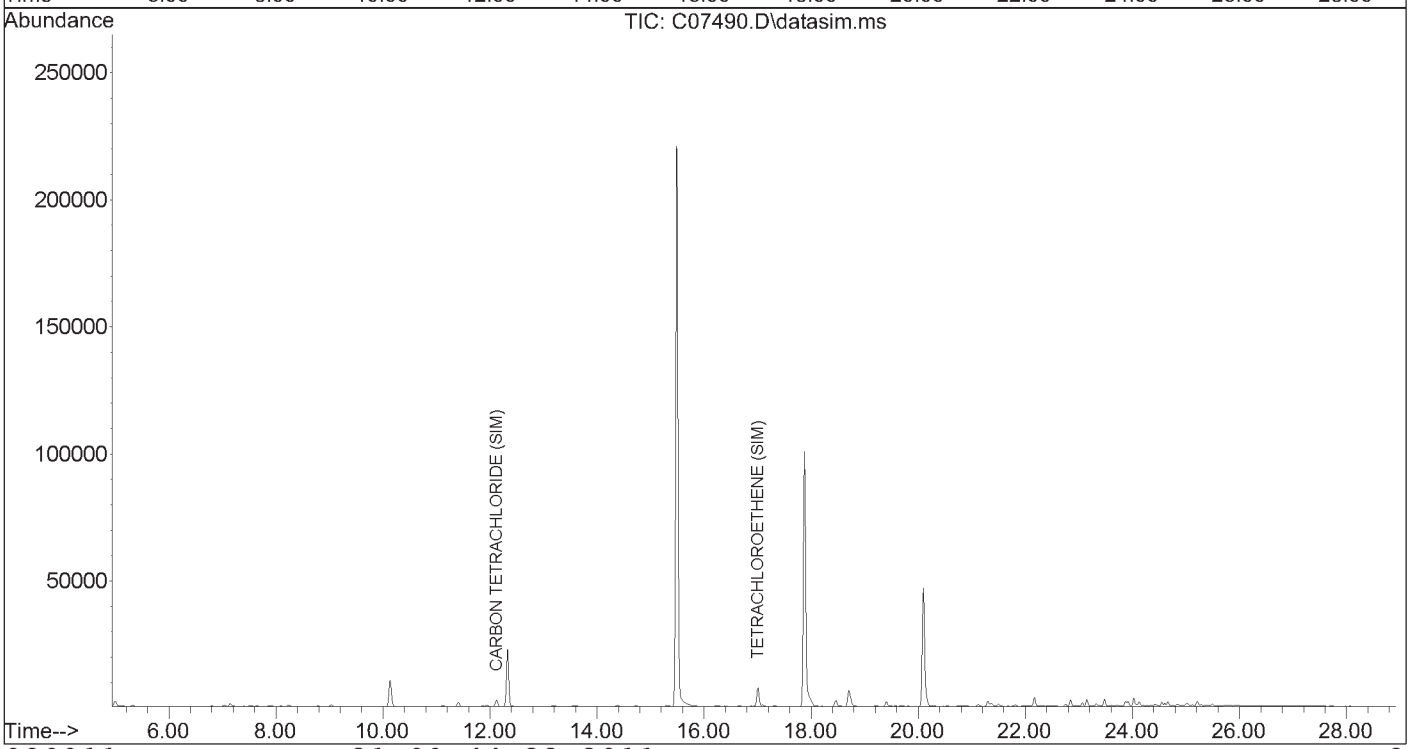
(#) = qualifier out of range (m) = manual integration (+) = signals summed

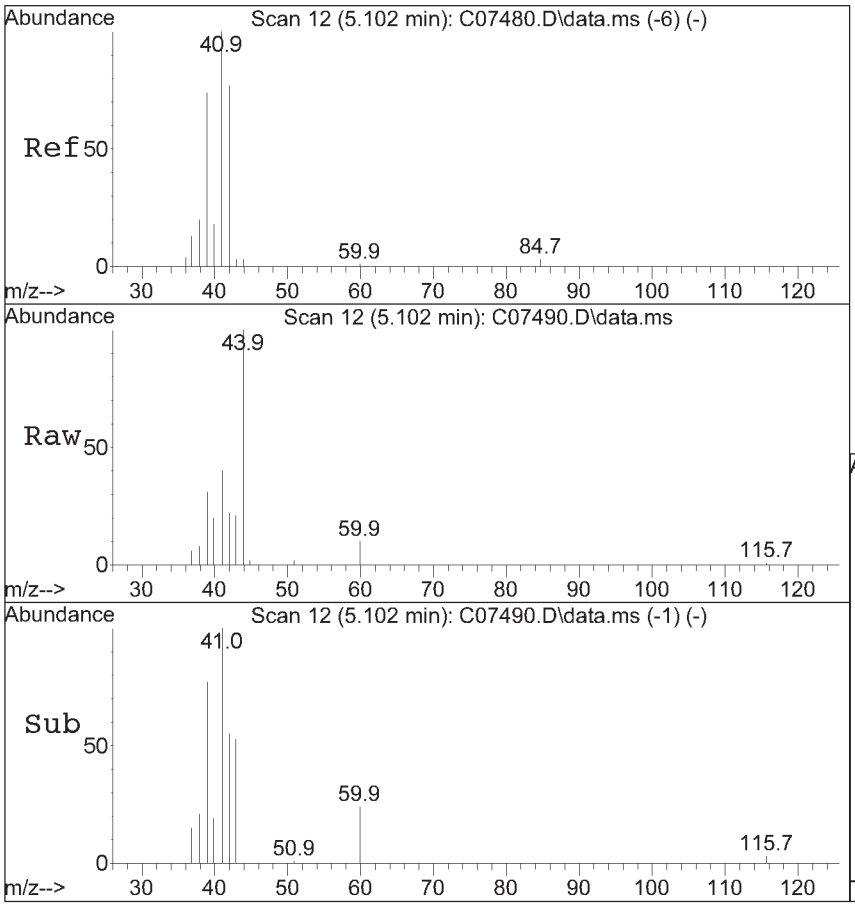
Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07490.D
Acq On : 10 Mar 2011 7:39 pm
Operator : KRL
Sample : sb25245-09 @ sg-1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 11 15:09:37 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration



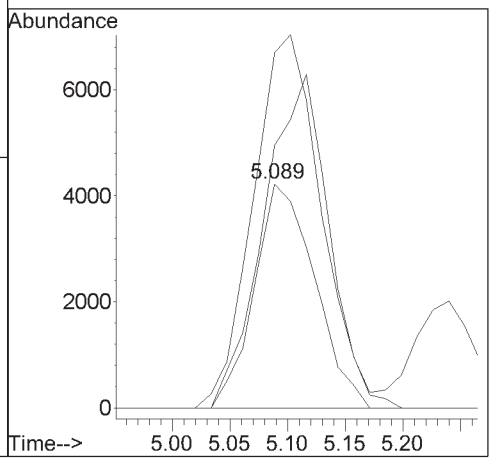


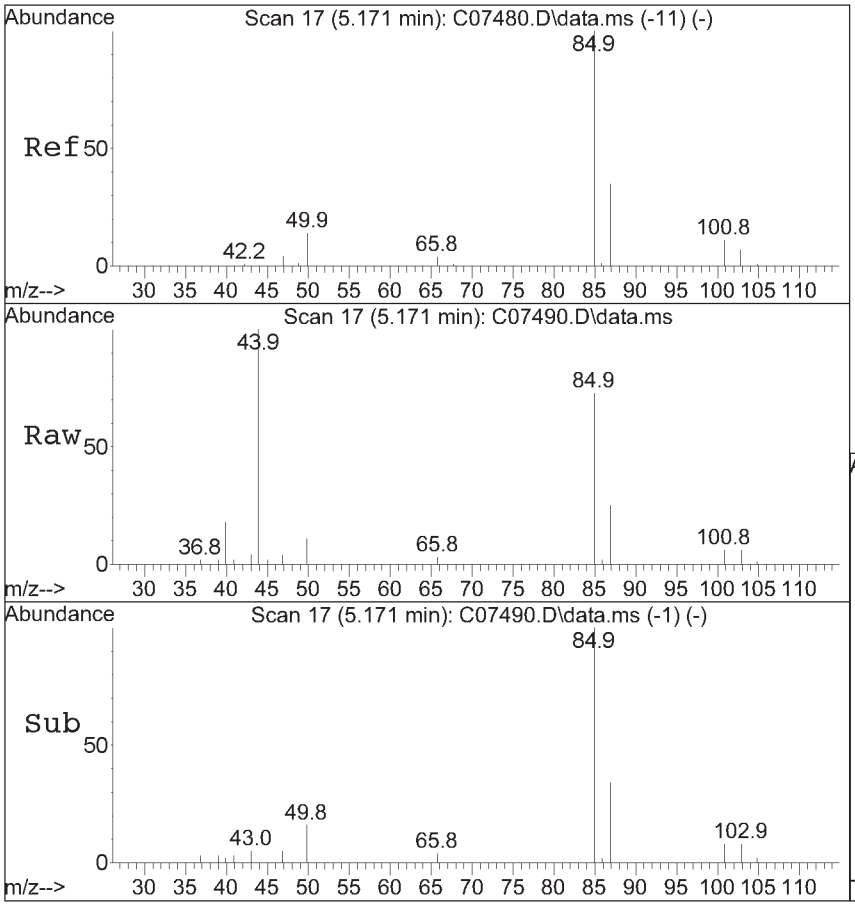


#2
PROPENE
Concen: 1.08 PPBv
RT: 5.100 min Scan# 12
Delta R.T. 0.008 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 42 Resp: 153878

Ion	Ratio	Lower	Upper
42	100		
39	158.9	0.0	0.0#
41	187.5	0.0	0.0#

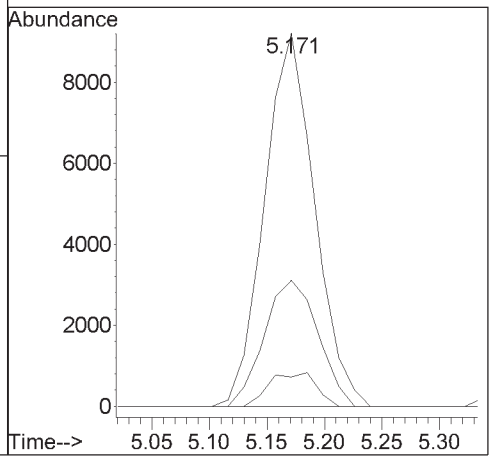


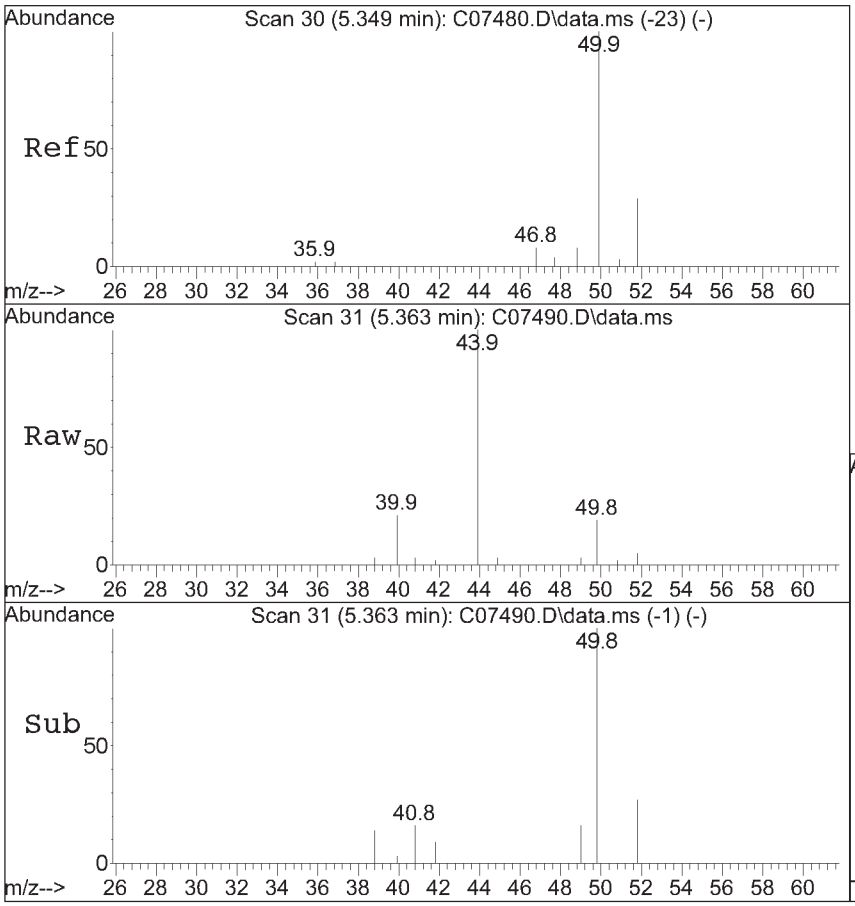


#3
DICHLORODIFLUOROMETHANE
Concen: 0.43 PPBv
RT: 5.175 min Scan# 17
Delta R.T. 0.001 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 85 Resp: 278554

Ion	Ratio	Lower	Upper
85	100		
87	36.2	0.0	0.0#
101	8.5	0.0	0.0#

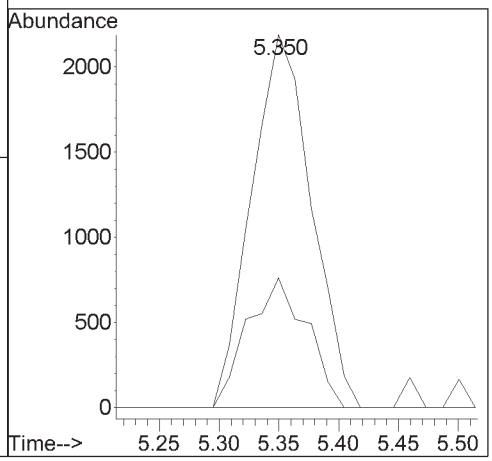


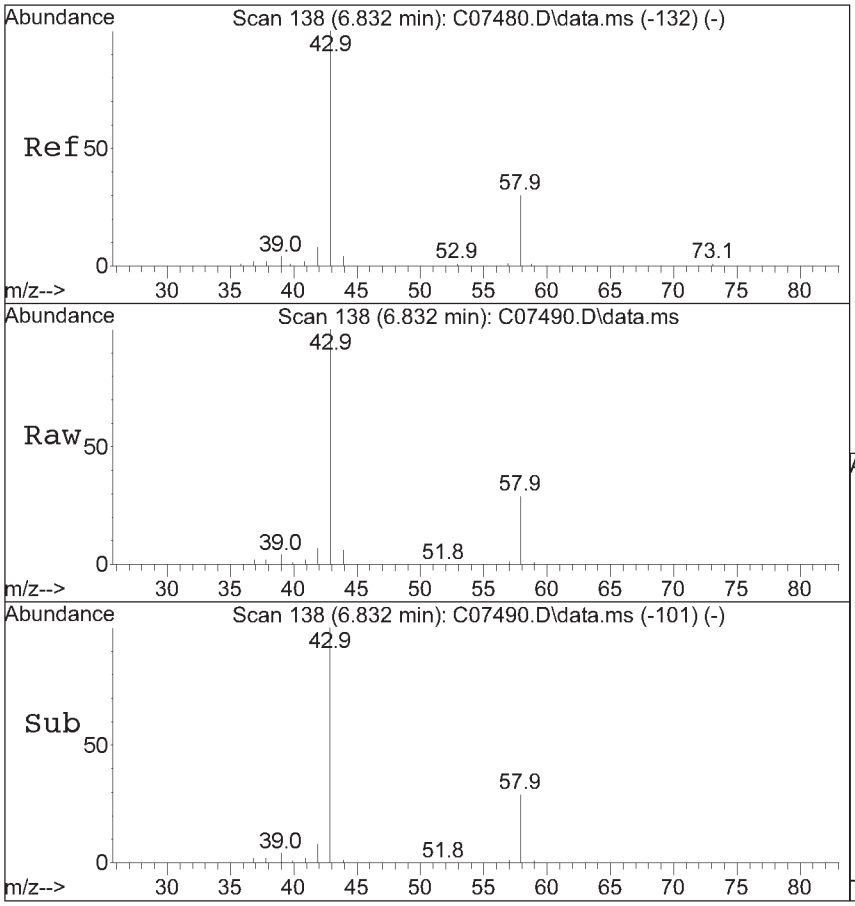


#4
CHLOROMETHANE
Concen: 0.23 PPBv
RT: 5.358 min Scan# 31
Delta R.T. 0.001 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 50 Resp: 76266

Ion	Ratio	Lower	Upper
50	100		
52	34.3	0.0	0.0#

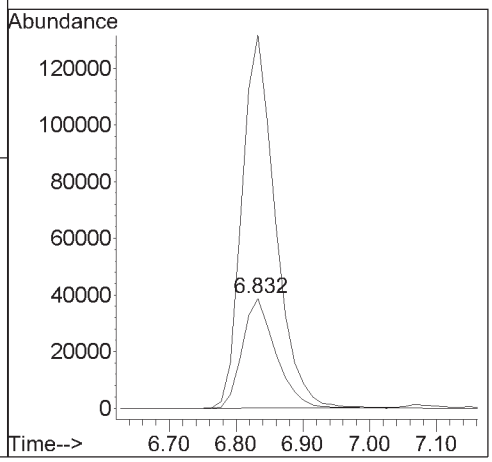


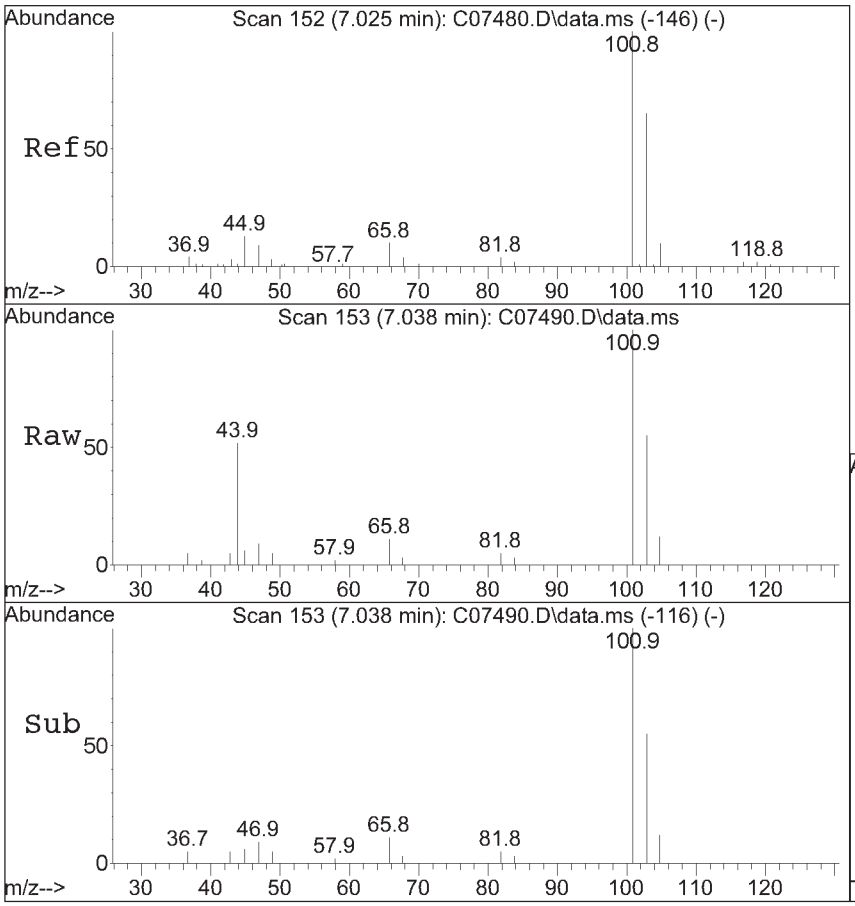


#11
ACETONE
Concen: 9.84 PPBv
RT: 6.836 min Scan# 138
Delta R.T. 0.006 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 58 Resp: 1349811

Ion	Ratio	Lower	Upper
58	100		
43	338.3	0.0	0.0#

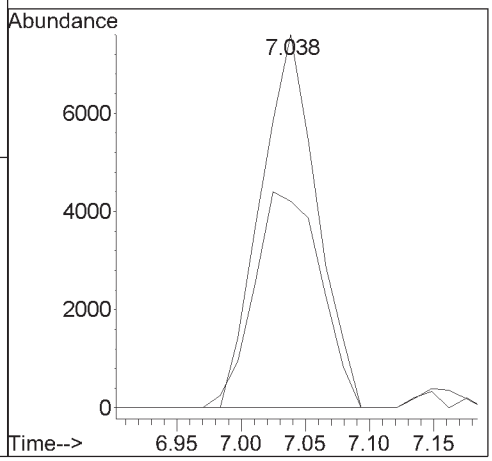


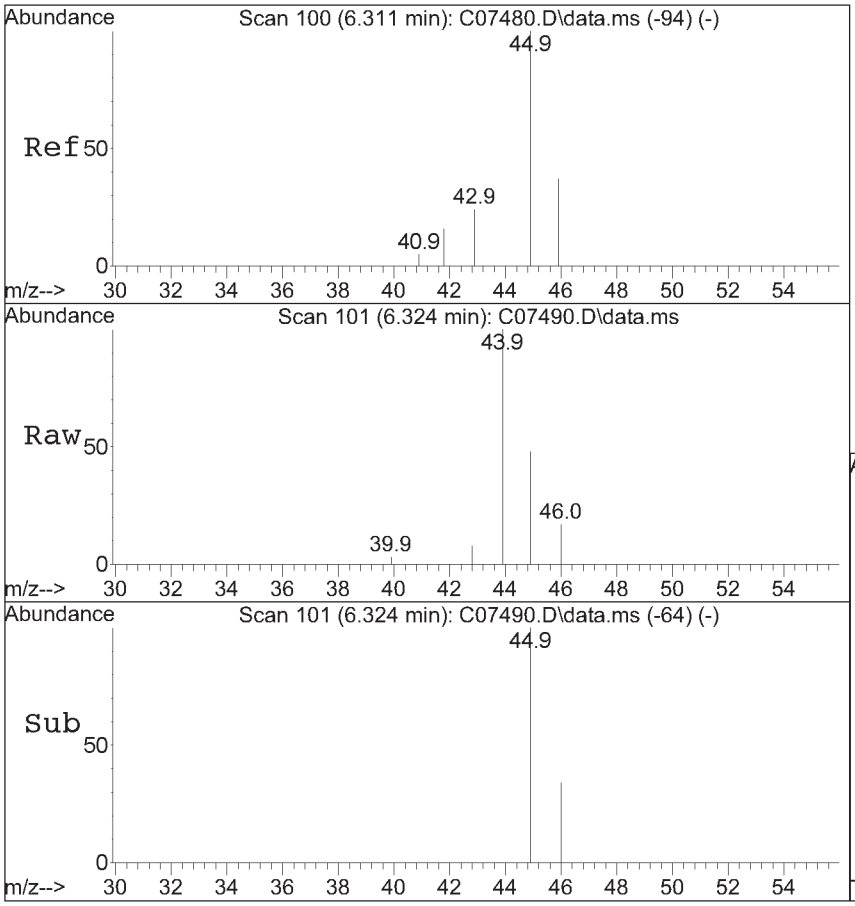


#12
TRICHLOROFLUOROMETHANE
Concen: 0.26 PPBv
RT: 7.043 min Scan# 153
Delta R.T. 0.011 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:101 Resp: 233122

Ion	Ratio	Lower	Upper
101	100		
103	68.3	0.0	0.0#

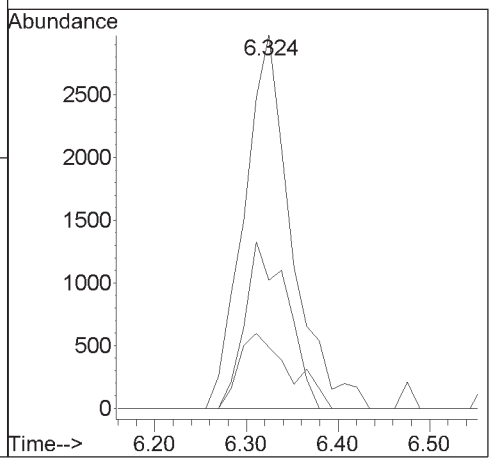


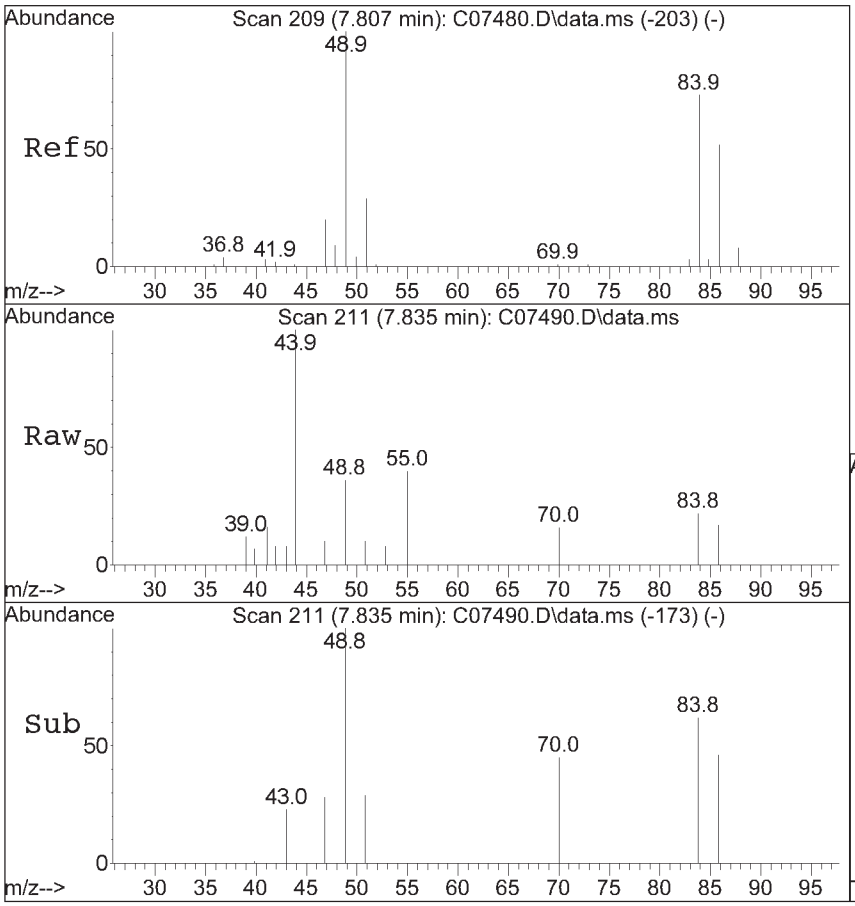


#13
ETHANOL
Concen: 1.34 PPBv
RT: 6.328 min Scan# 101
Delta R.T. 0.011 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 45 Resp: 107338

Ion	Ratio	Lower	Upper
45	100		
46	40.1	0.0	0.0#
43	0.0	0.0	0.0

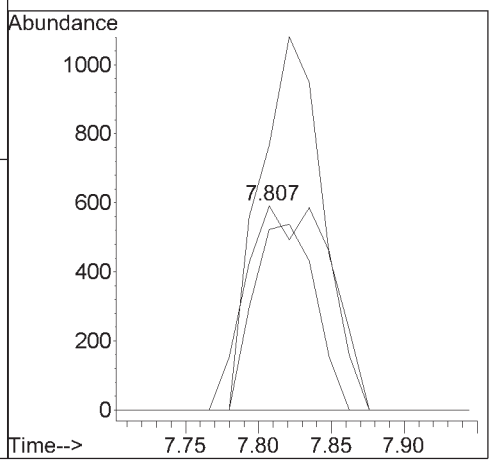


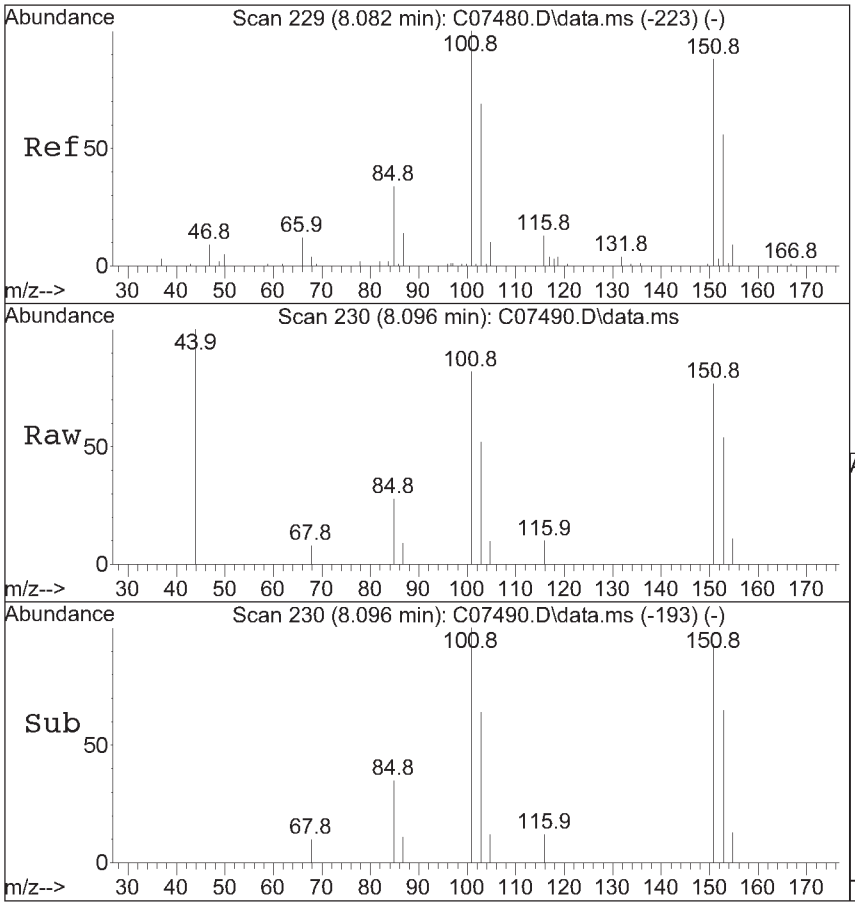


#17
METHYLENE CHLORIDE
Concen: 0.09 PPBv
RT: 7.840 min Scan# 211
Delta R.T. 0.028 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 84 Resp: 23610

Ion	Ratio	Lower	Upper
84	100		
49	140.8	0.0	0.0#
86	67.8	0.0	0.0#

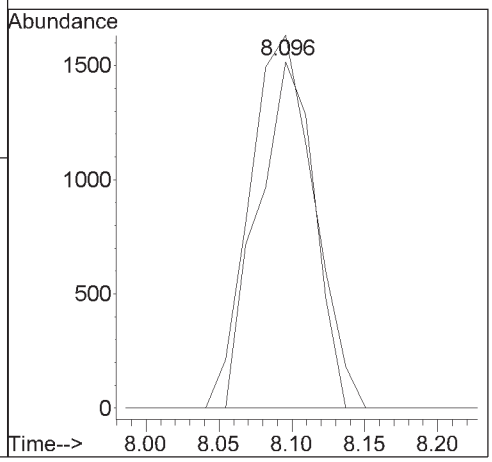


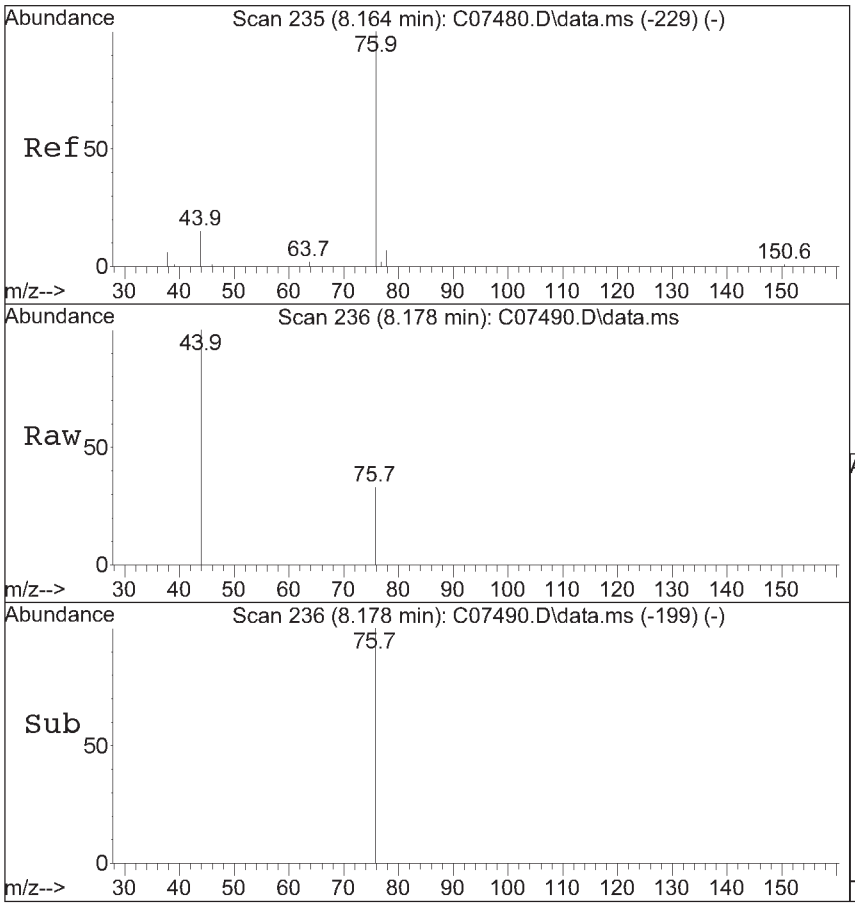


#18
FREON 113
Concen: 0.09 PPBv
RT: 8.097 min Scan# 230
Delta R.T. 0.009 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:101 Resp: 50169

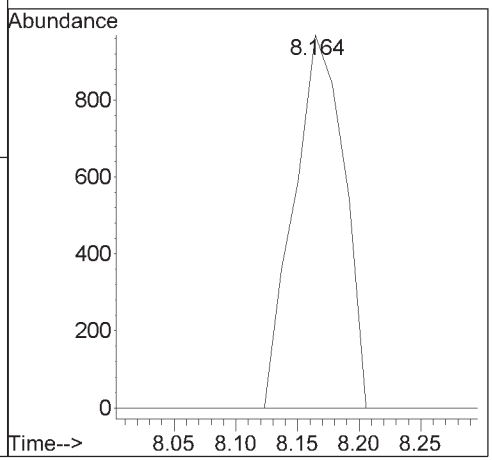
Ion	Ratio	Lower	Upper
101	100		
151	81.6	0.0	0.0#

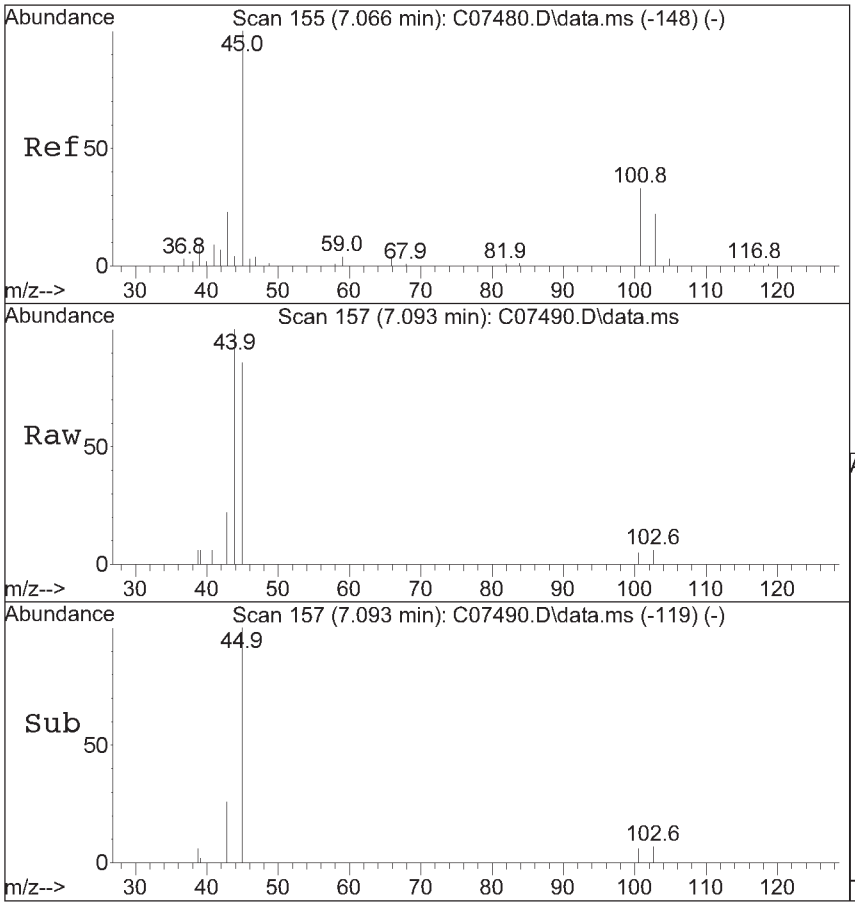




#19
CARBON DISULFIDE
Concen: 0.05 PPBv
RT: 8.174 min Scan# 236
Delta R.T. 0.008 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 76 Resp: 27273

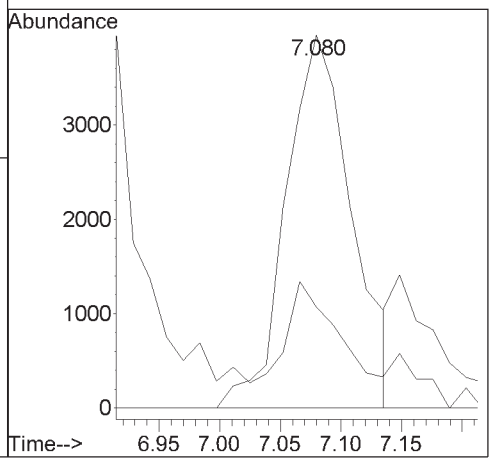


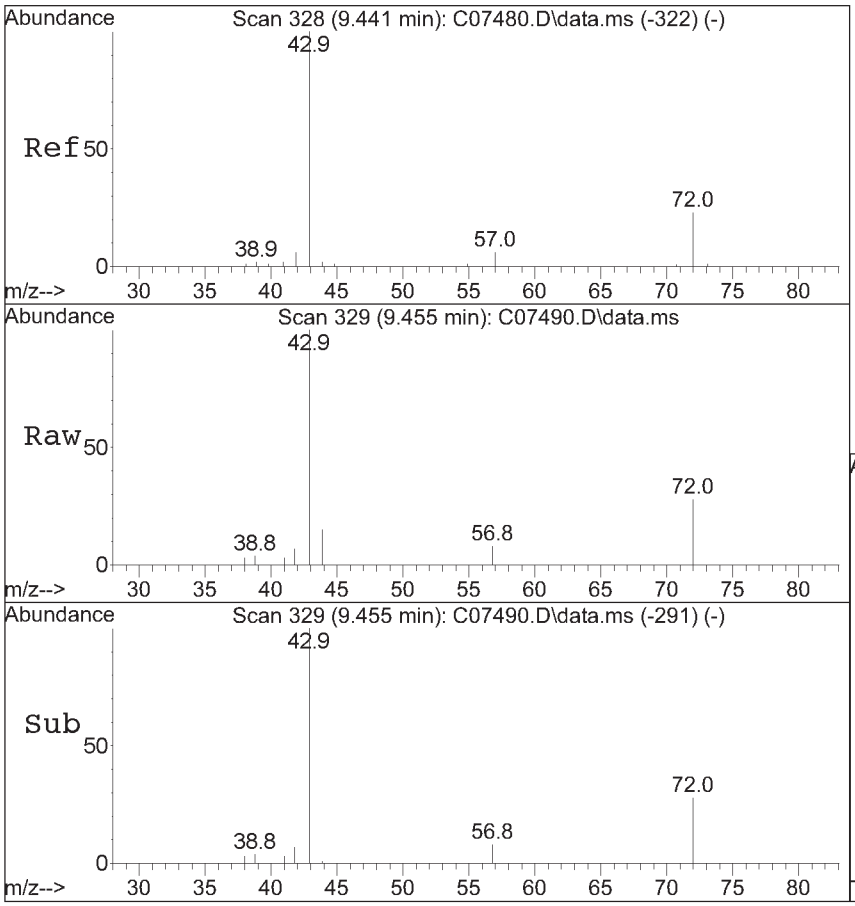


#24
IPA
Concen: 0.34 PPBv
RT: 7.087 min Scan# 157
Delta R.T. 0.021 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 45 Resp: 143438

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	0.0
59	0.0	0.0	0.0

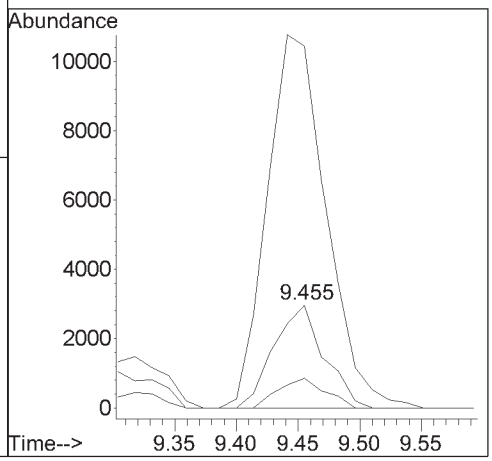


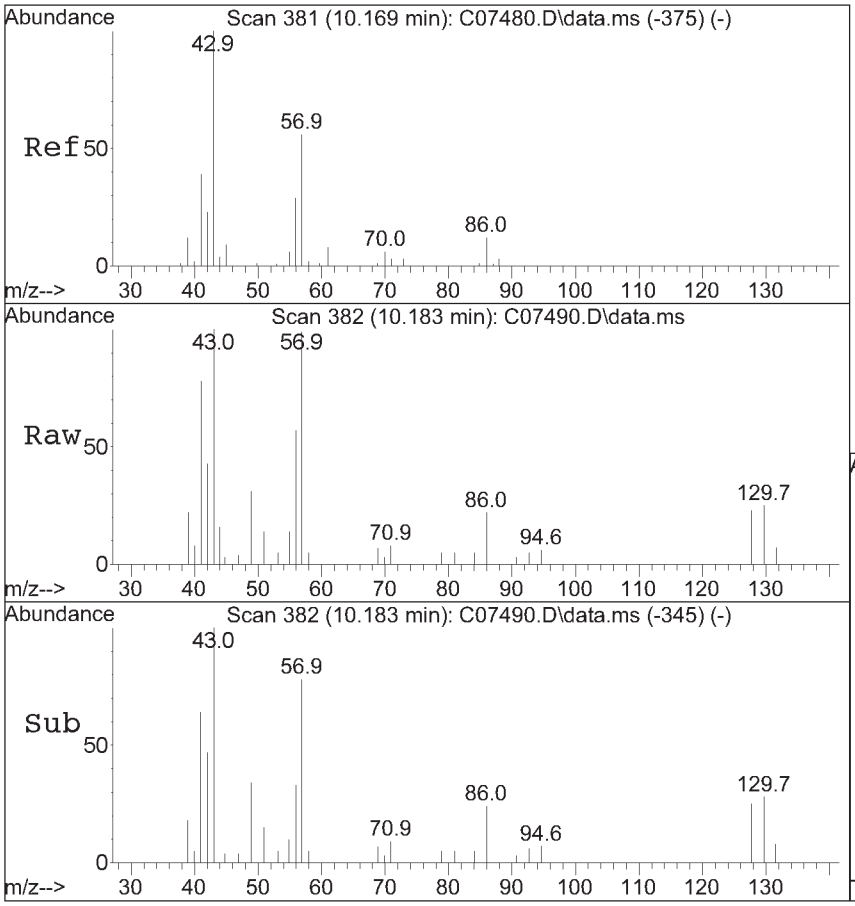


#25
2-BUTANONE (MEK)
Concen: 0.87 PPBv
RT: 9.456 min Scan# 329
Delta R.T. 0.016 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 72 Resp: 83714

Ion	Ratio	Lower	Upper
72	100		
57	0.0	0.0	0.0
43	427.3	0.0	0.0#

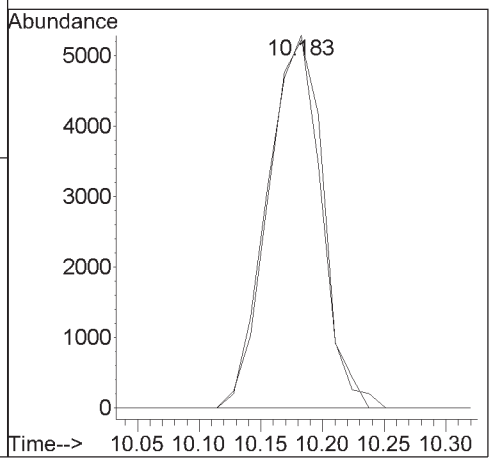


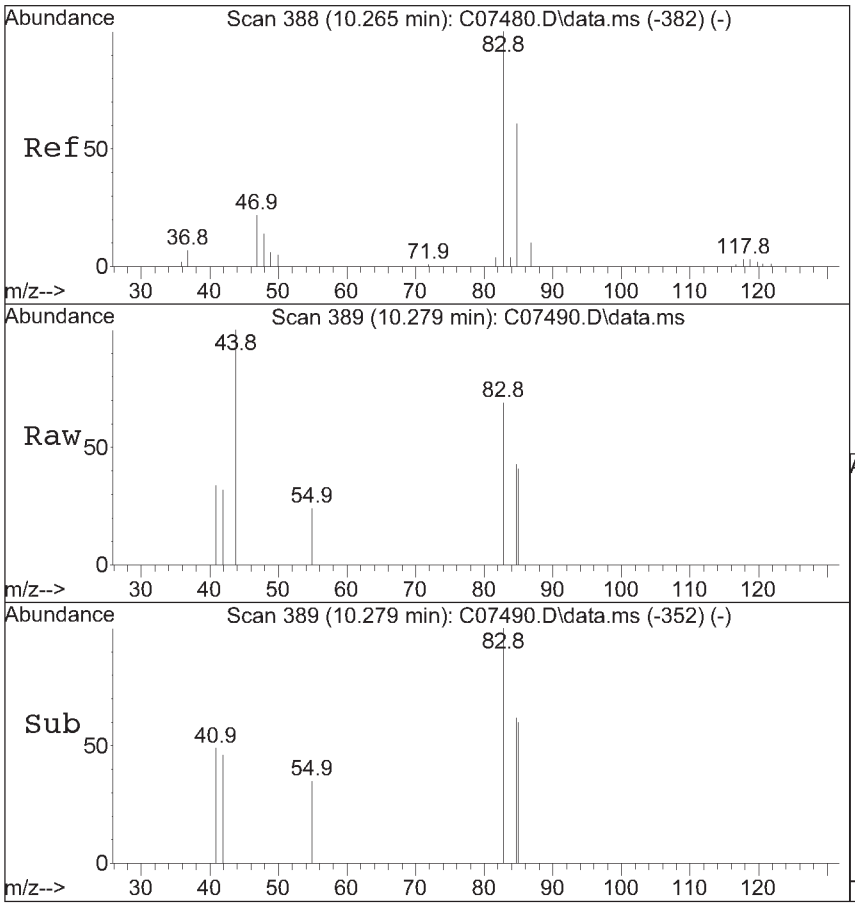


#27
HEXANE
Concen: 0.50 PPBv
RT: 10.185 min Scan# 382
Delta R.T. 0.011 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 57 Resp: 162514

Ion	Ratio	Lower	Upper
57	100		
43	98.6	0.0	0.0#

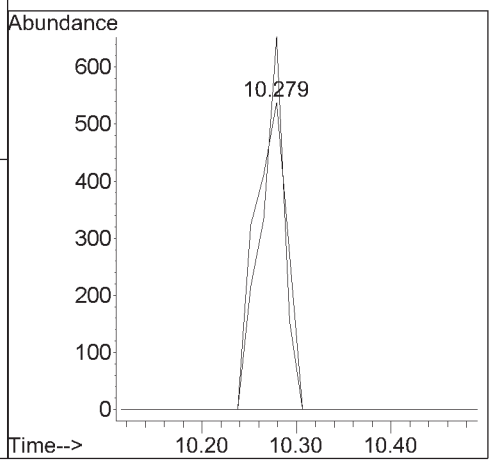


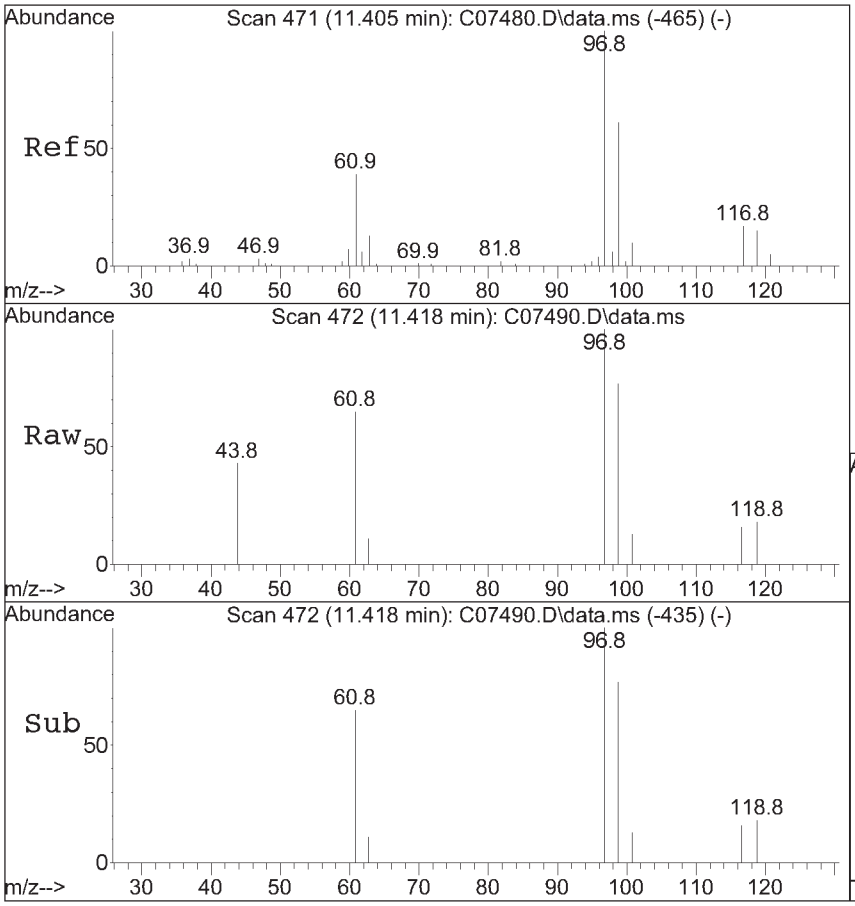


#29
CHLOROFORM
Concen: 0.03 PPBv m
RT: 10.279 min Scan# 389
Delta R.T. 0.009 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 83 Resp: 12719

Ion	Ratio	Lower	Upper
83	100		
85	0.0	0.0	0.0

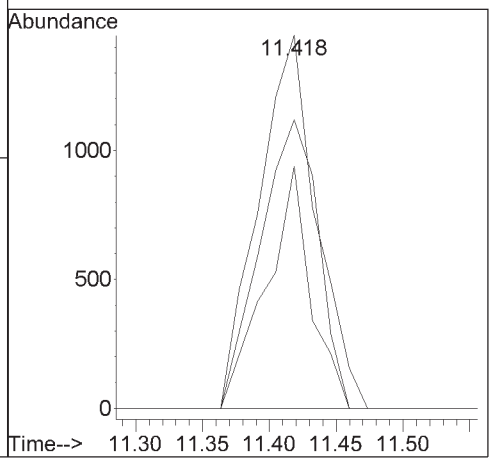


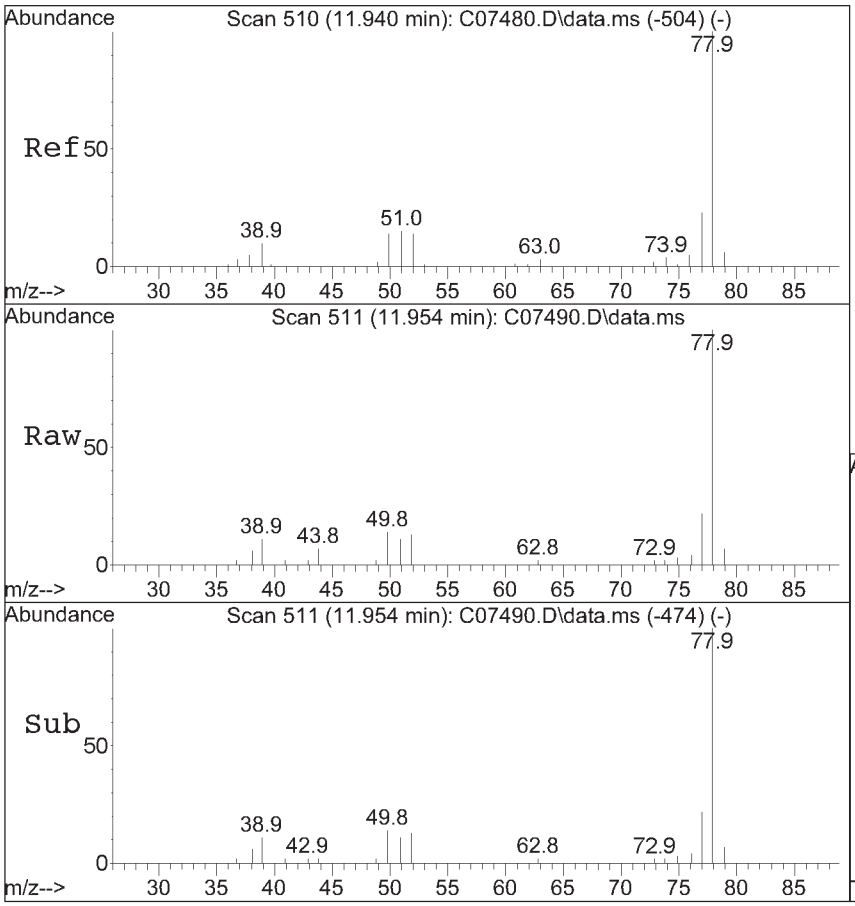


#32
1,1,1-TRICHLOROETHANE
Concen: 0.11 PPBv
RT: 11.420 min Scan# 472
Delta R.T. 0.010 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 97 Resp: 43555

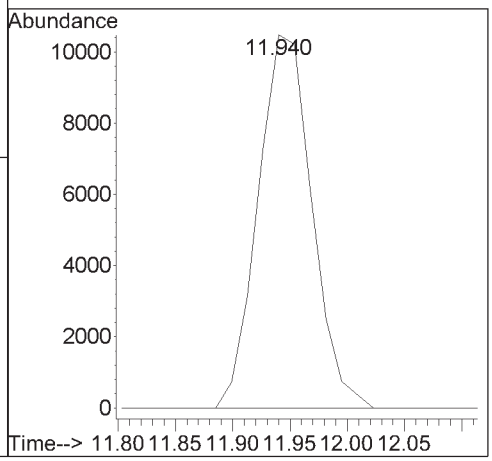
Ion	Ratio	Lower	Upper
97	100		
99	77.8	0.0	0.0#
61	49.9	0.0	0.0#

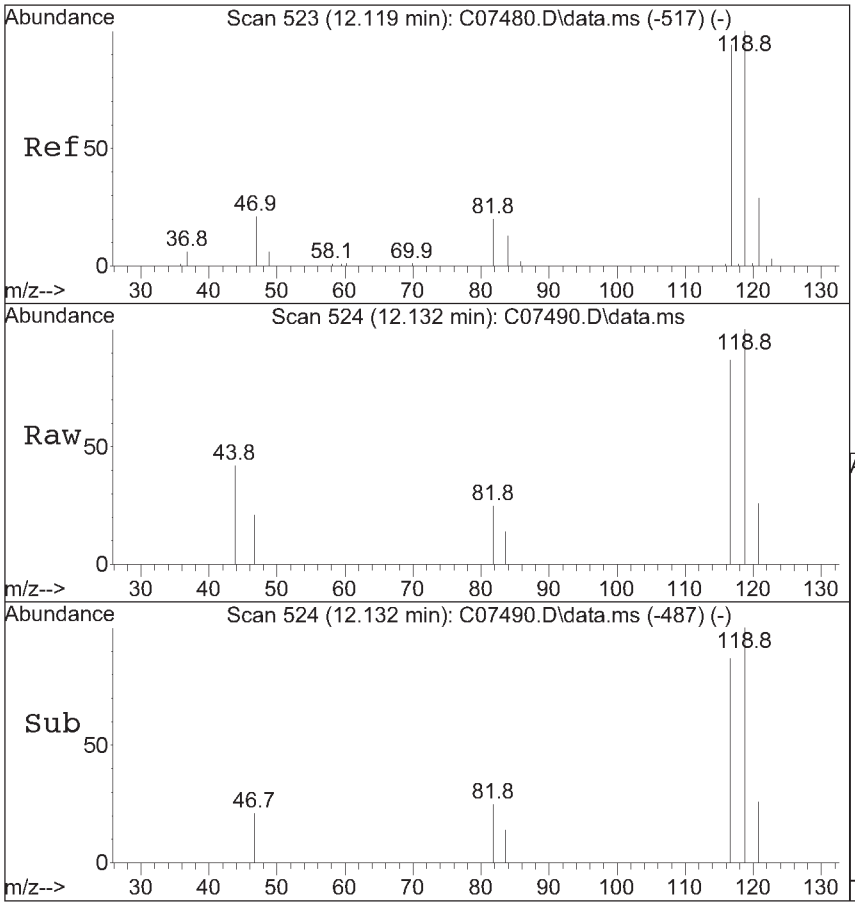




#33
BENZENE
Concen: 0.51 PPBv
RT: 11.951 min Scan# 511
Delta R.T. 0.005 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 78 Resp: 342454

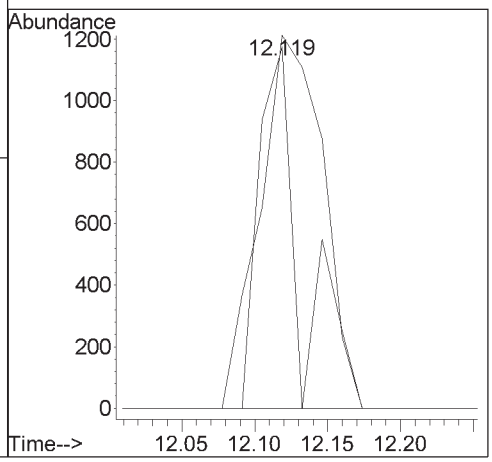


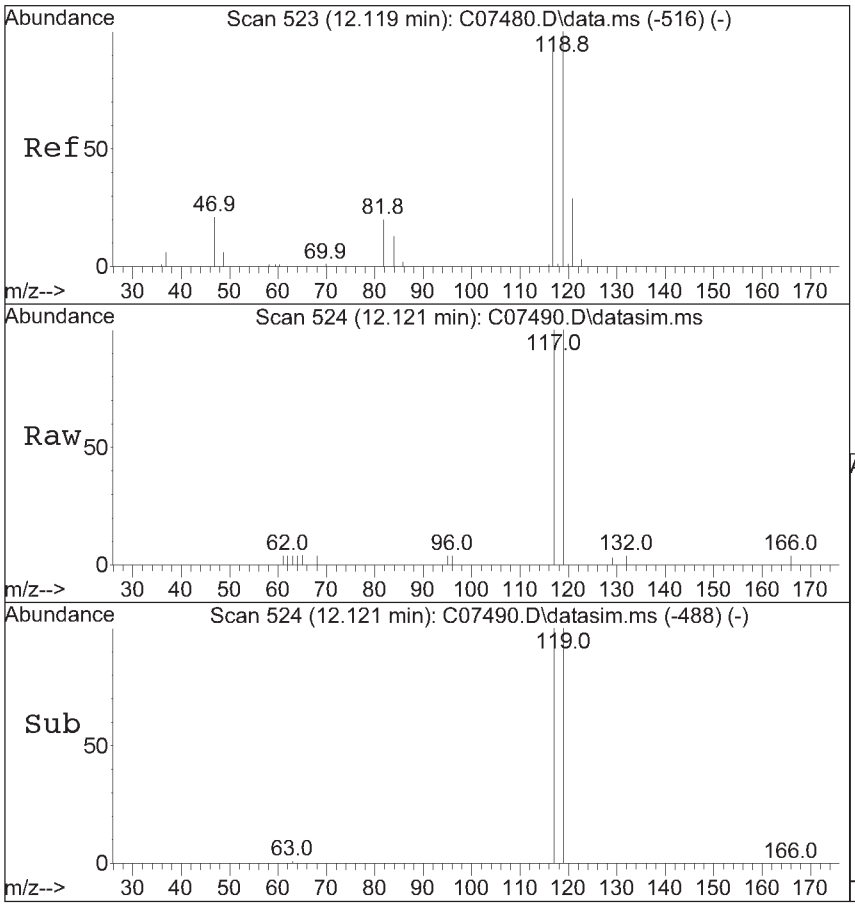


#34
CARBON TETRACHLORIDE
Concen: 0.08 PPBv
RT: 12.130 min Scan# 524
Delta R.T. 0.008 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:119 Resp: 36622

Ion	Ratio	Lower	Upper
119	100		
117	65.5	0.0	0.0#

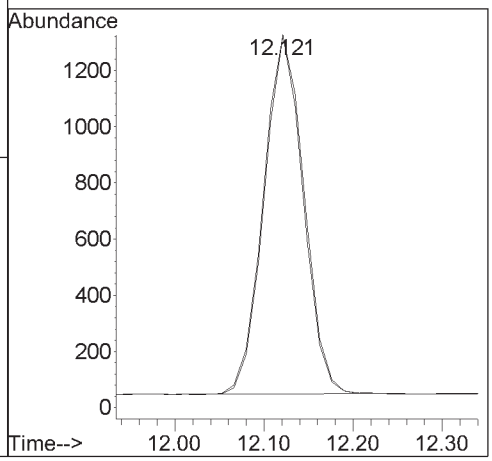


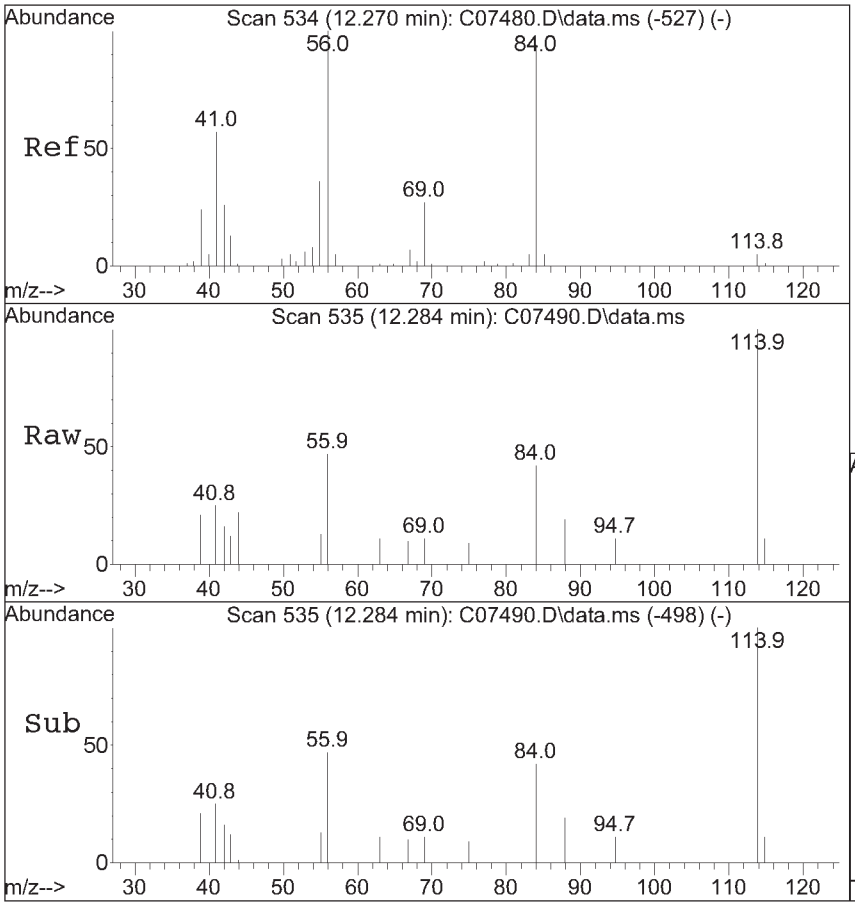


#35
CARBON TETRACHLORIDE (SIM)
Concen: 0.06 PPBv
RT: 12.128 min Scan# 524
Delta R.T. 0.006 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:119 Resp: 39537

Ion	Ratio	Lower	Upper
119	100		
117	99.7	0.0	0.0#

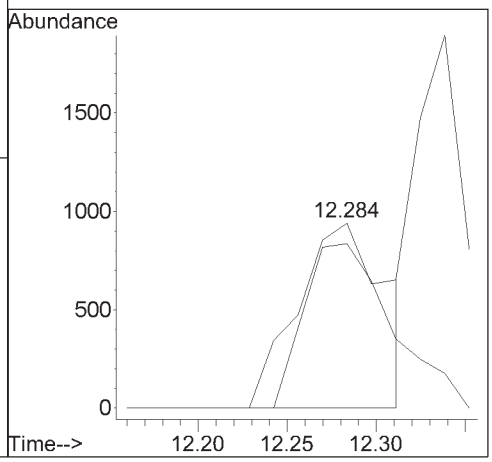


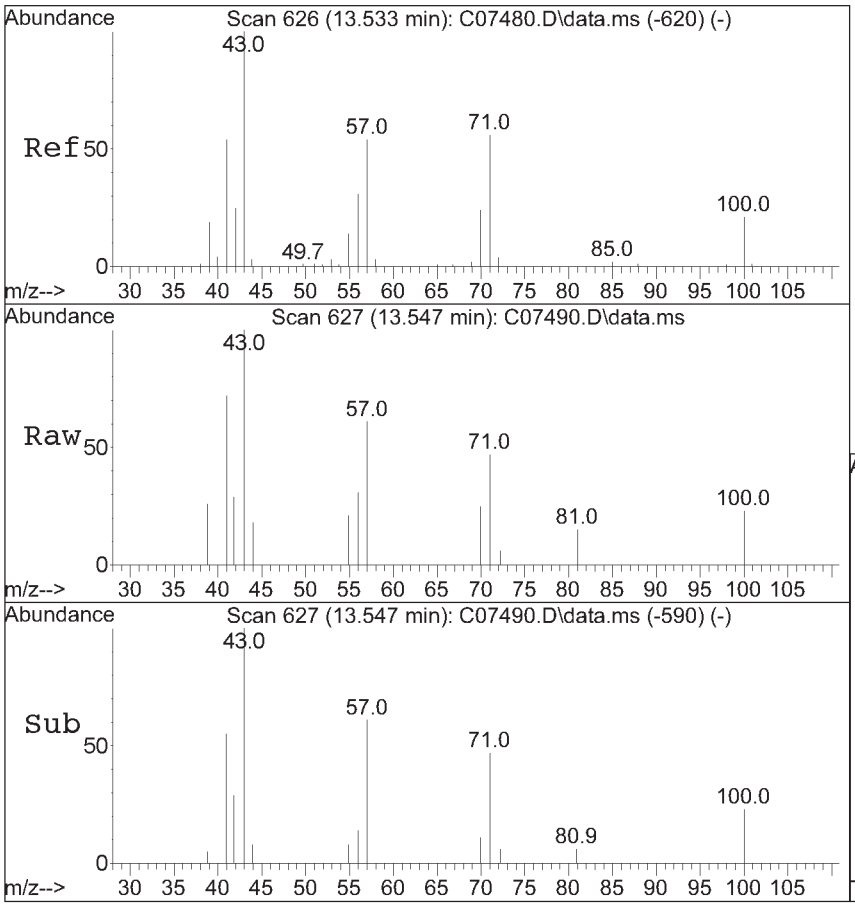


#36
CYCLOHEXANE
Concen: 0.08 PPBv m
RT: 12.284 min Scan# 535
Delta R.T. 0.014 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 56 Resp: 25888

Ion	Ratio	Lower	Upper
56	100		
84	0.0	0.0	0.0

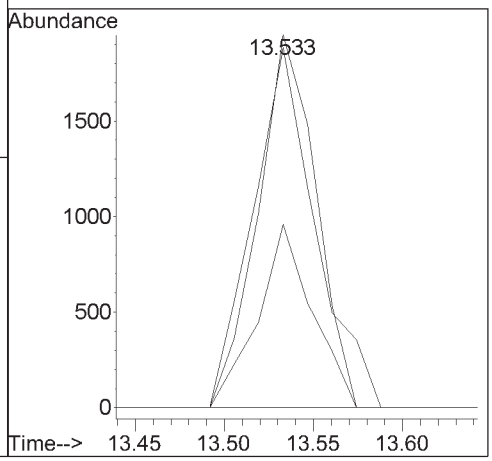


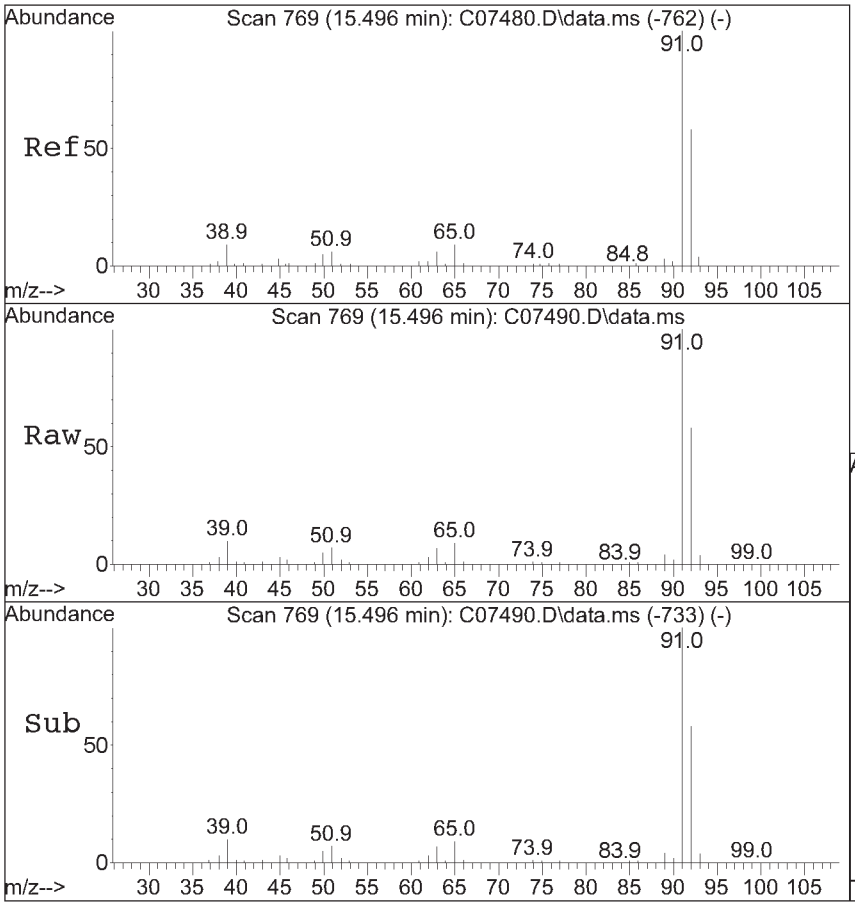


#43
HEPTANE
Concen: 0.20 PPBv
RT: 13.541 min Scan# 627
Delta R.T. 0.006 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 57 Resp: 44113

Ion	Ratio	Lower	Upper
57	100		
71	104.7	0.0	0.0#
100	46.2	0.0	0.0#

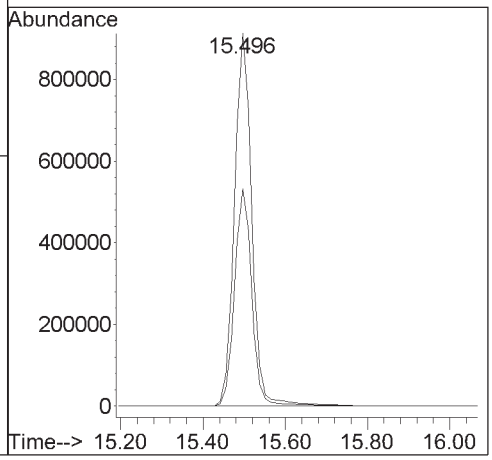


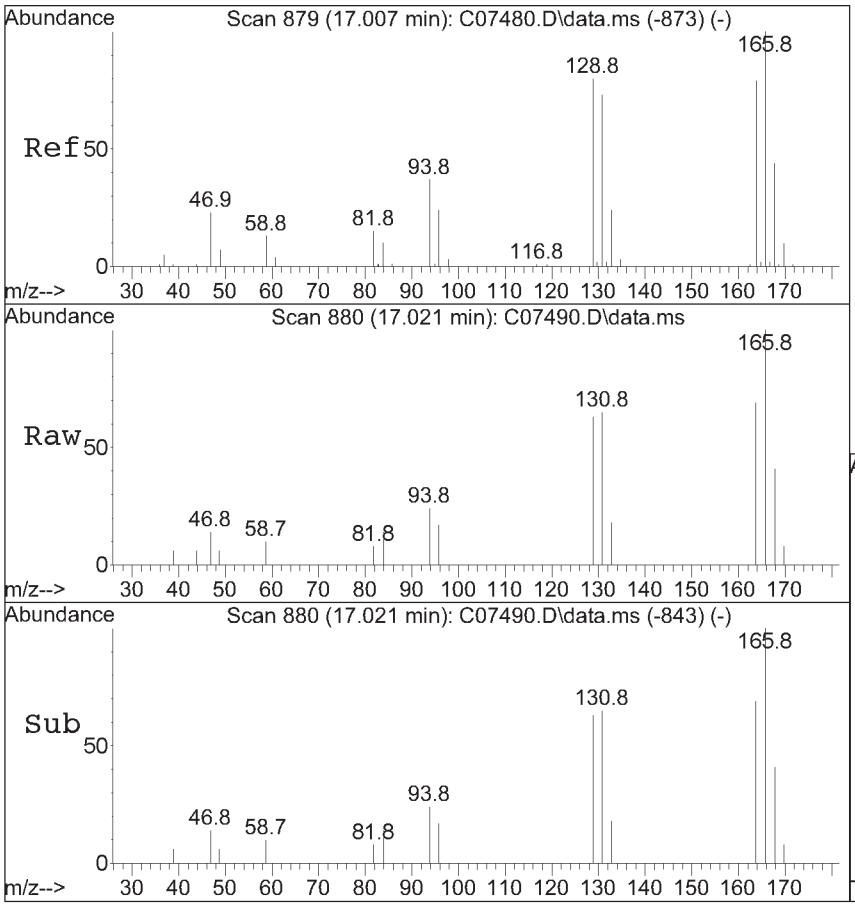


#48
TOLUENE
Concen: 31.67 PPBv
RT: 15.502 min Scan# 769
Delta R.T. 0.006 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 91 Resp:26815256

Ion	Ratio	Lower	Upper
91	100		
92	58.2	0.0	0.0#

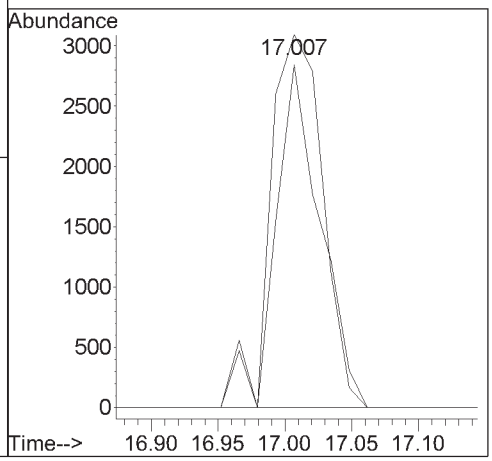


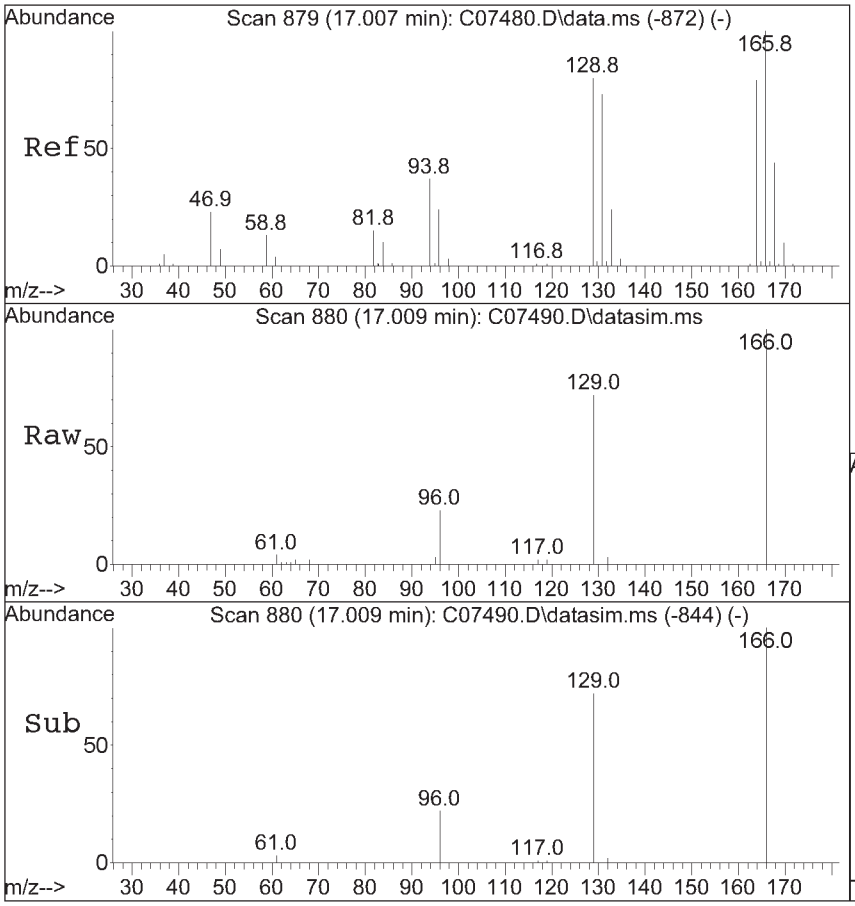


#52
TETRACHLOROETHENE
Concen: 0.19 PPBv
RT: 17.014 min Scan# 880
Delta R.T. 0.006 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:166 Resp: 84459

Ion	Ratio	Lower	Upper
166	100		
129	80.5	0.0	0.0#
138	0.0	0.0	0.0

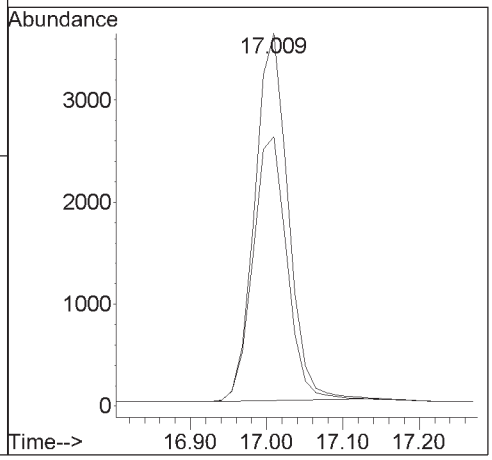


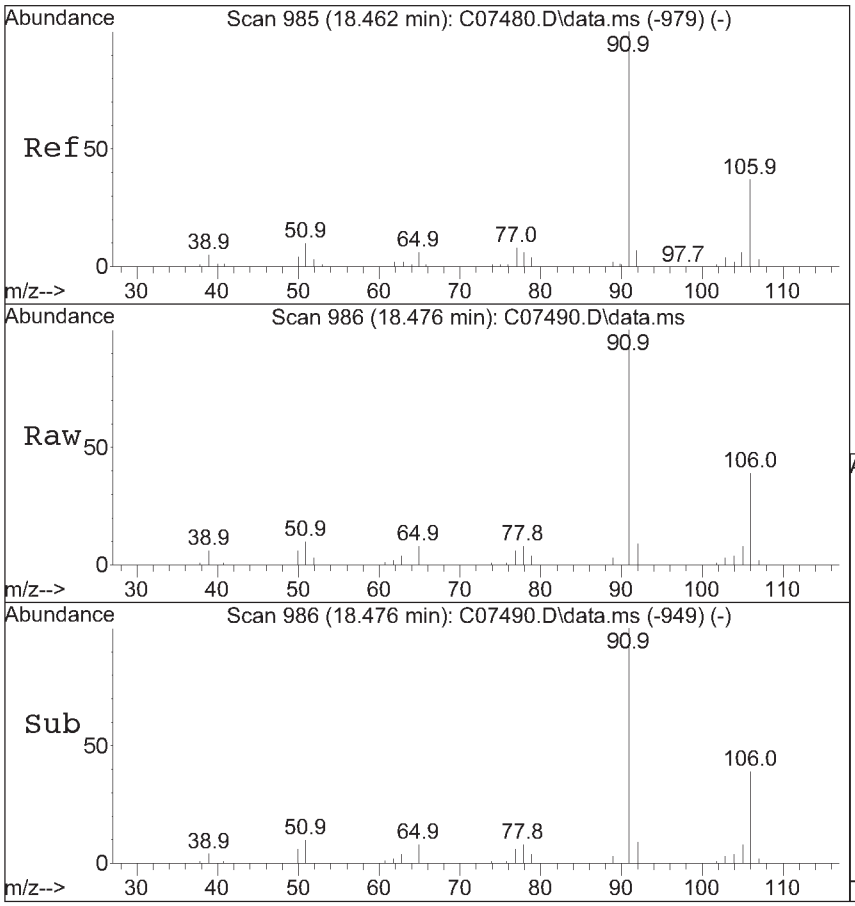


#53
TETRACHLOROETHENE (SIM)
Concen: 0.22 PPBv
RT: 17.011 min Scan# 880
Delta R.T. 0.002 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:166 Resp: 109039

Ion	Ratio	Lower	Upper
166	100		
129	73.5	0.0	0.0#

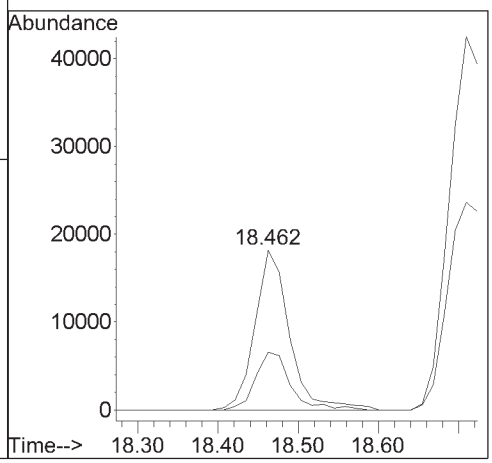


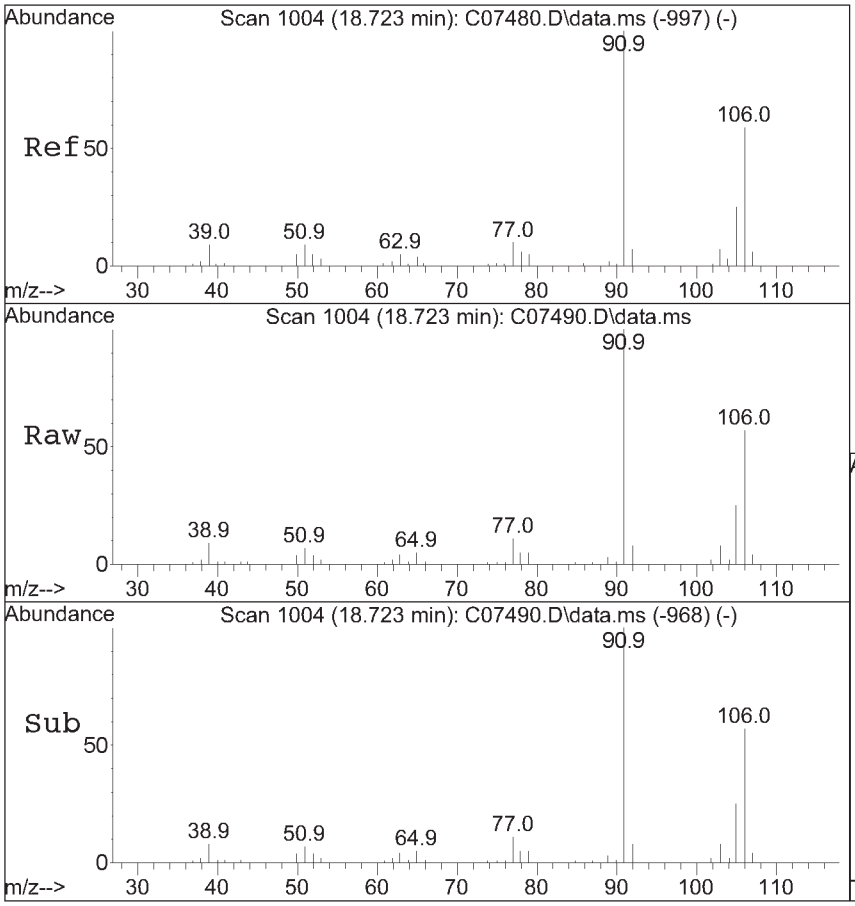


#57
ETHYLBENZENE
Concen: 0.49 PPBv
RT: 18.471 min Scan# 986
Delta R.T. 0.002 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 91 Resp: 544352

Ion	Ratio	Lower	Upper
91	100		
106	36.4	0.0	0.0#

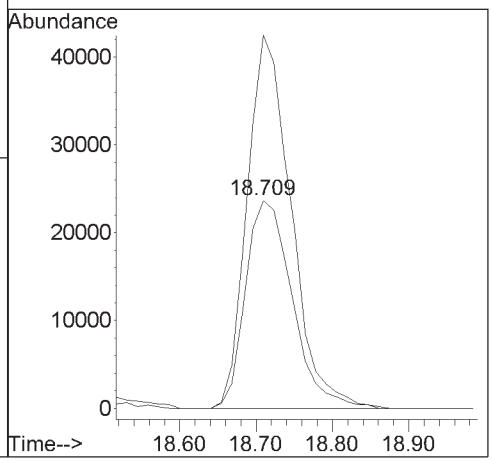


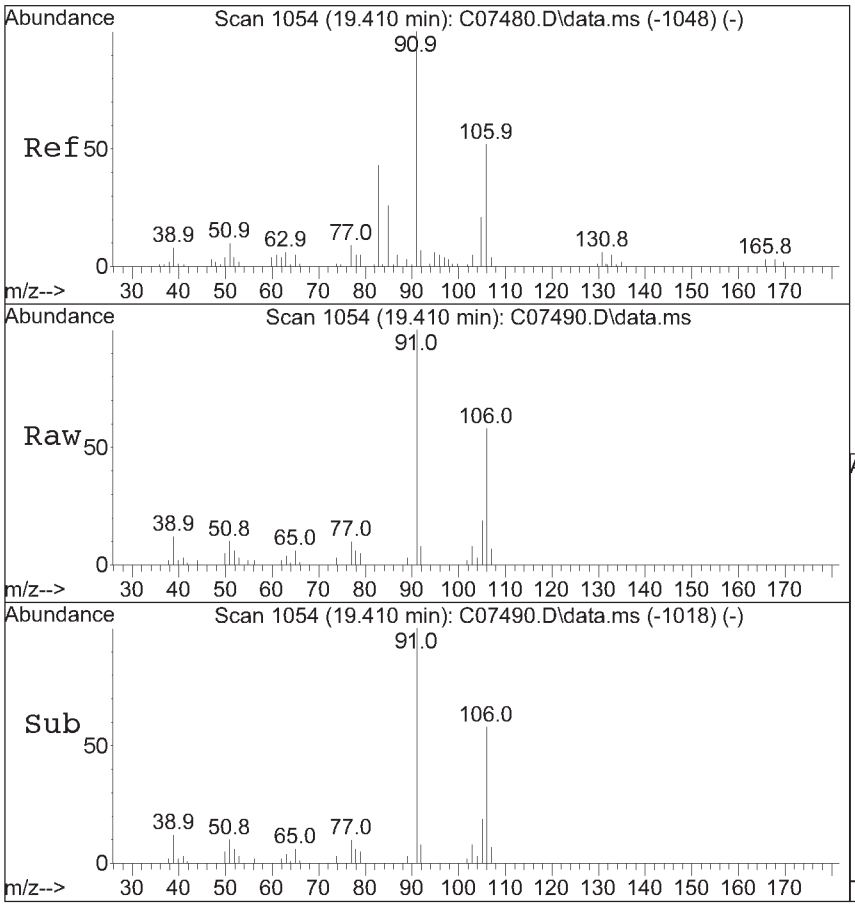


#58
M/P-XYLENE
Concen: 1.86 PPBv
RT: 18.718 min Scan# 1004
Delta R.T. -0.008 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:106 Resp: 1006154

Ion	Ratio	Lower	Upper
106	100		
91	168.6	0.0	0.0#

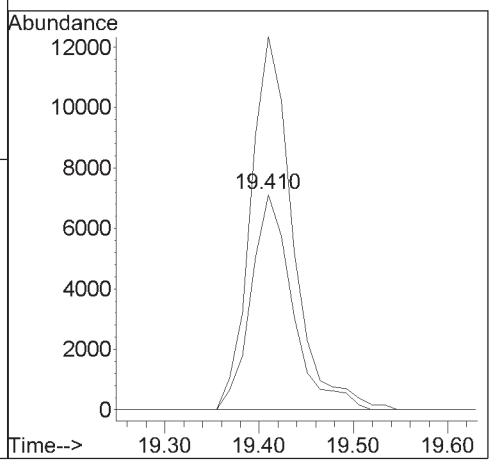


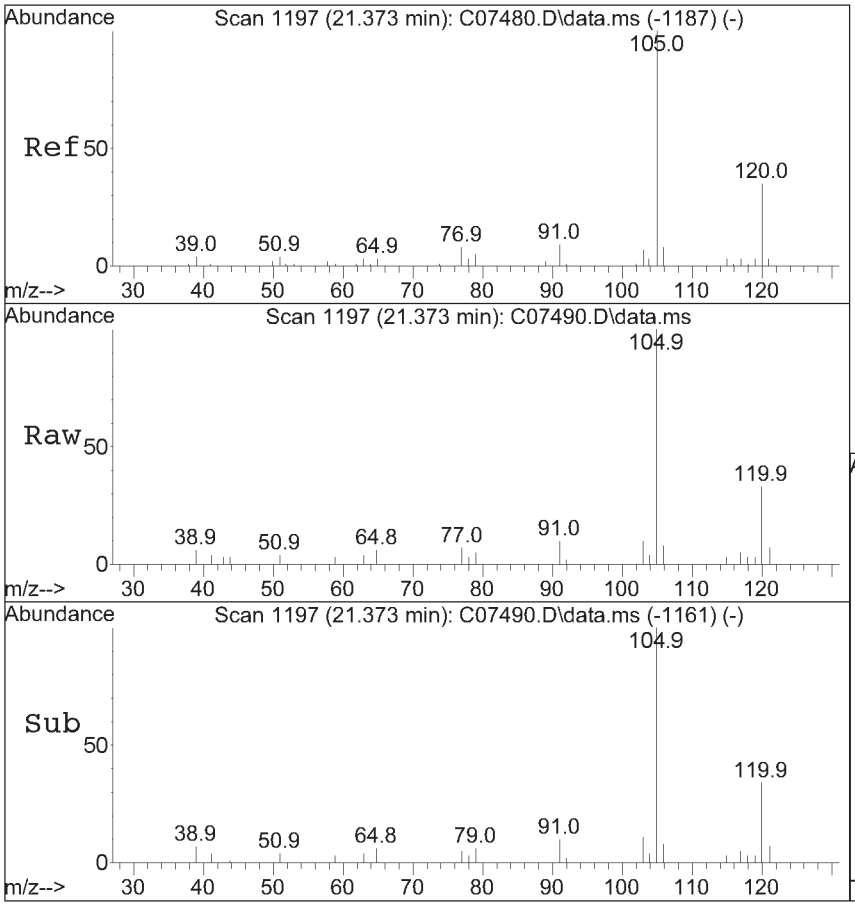


#61
O-XYLENE
Concen: 0.43 PPBv
RT: 19.416 min Scan# 1054
Delta R.T. -0.001 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:106 Resp: 219450

Ion	Ratio	Lower	Upper
106	100		
91	174.6	0.0	0.0#

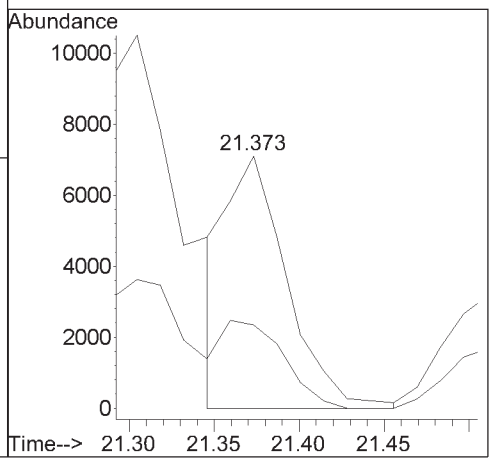


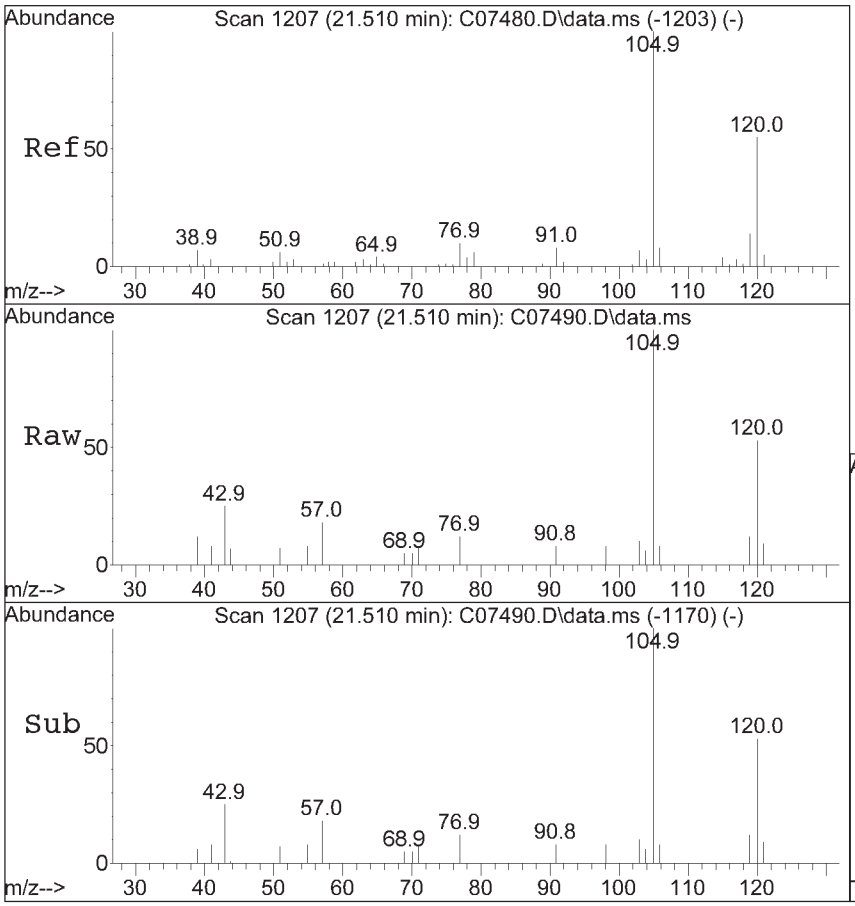


#65
4-ETHYLTOLUENE
Concen: 0.17 PPBv
RT: 21.375 min Scan# 1197
Delta R.T. -0.002 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:105 Resp: 212190

Ion	Ratio	Lower	Upper
105	100		
120	0.0	0.0	0.0

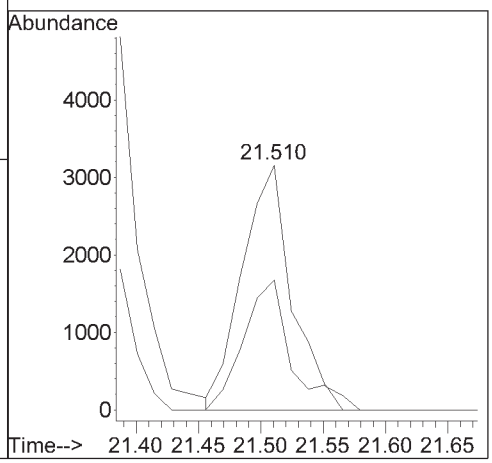


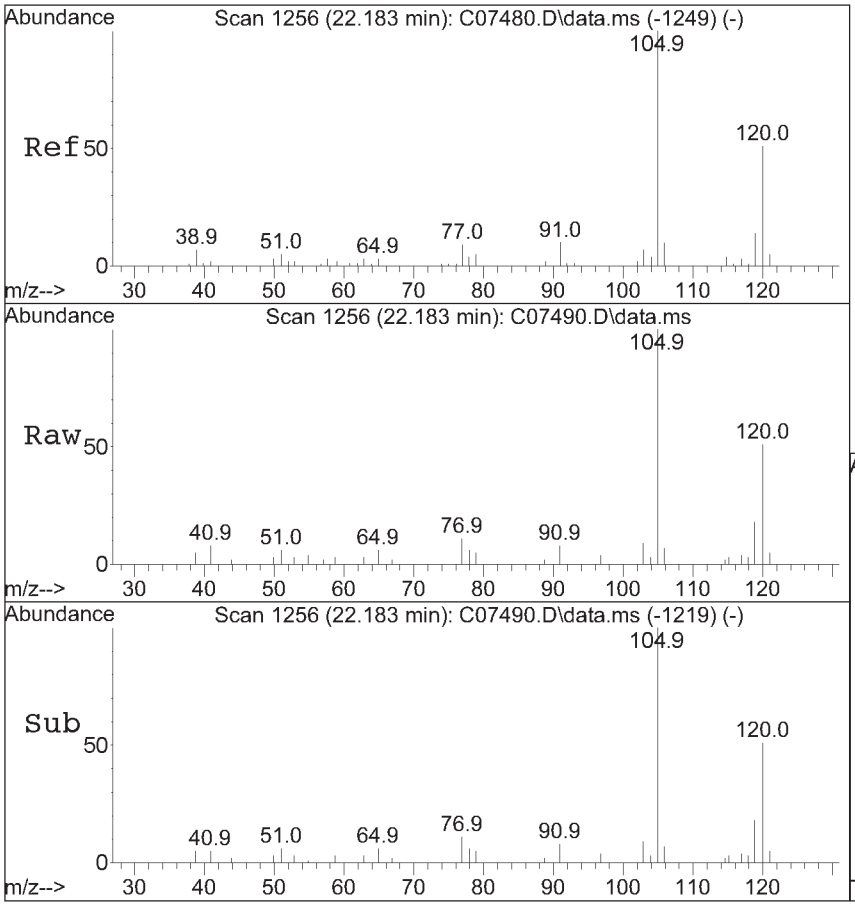


#66
1,3,5-TRIMETHYLBENZENE
Concen: 0.08 PPBv m
RT: 21.510 min Scan# 1207
Delta R.T. 0.003 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:105 Resp: 87539

Ion	Ratio	Lower	Upper
105	100		
120	0.0	0.0	0.0

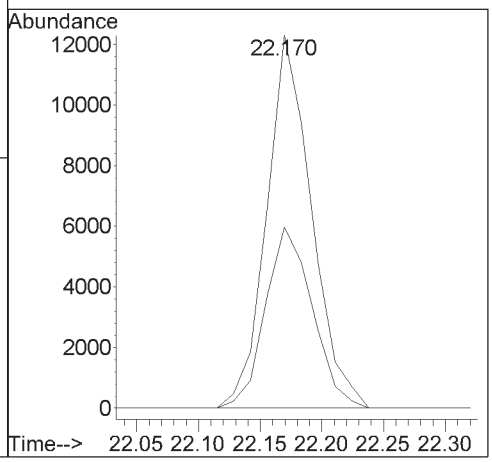


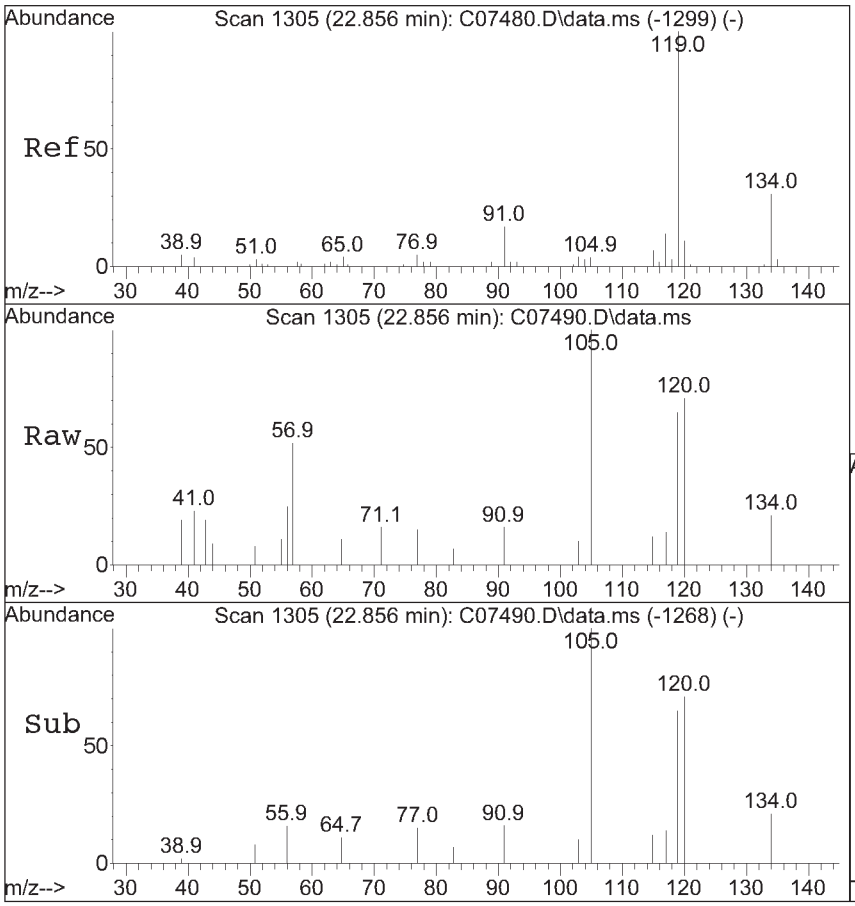


#67
1,2,4-TRIMETHYLBENZENE
Concen: 0.32 PPBv
RT: 22.177 min Scan# 1256
Delta R.T. -0.002 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:105 Resp: 310472

Ion	Ratio	Lower	Upper
105	100		
120	50.9	0.0	0.0#

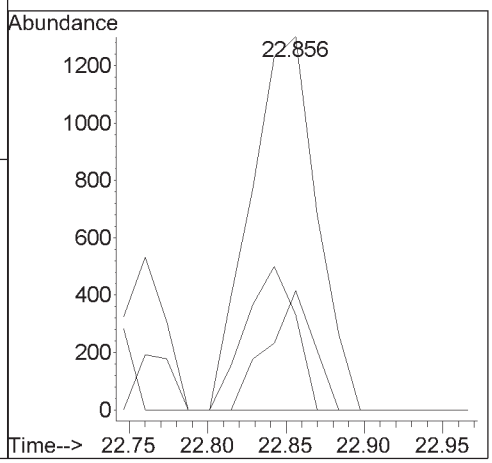


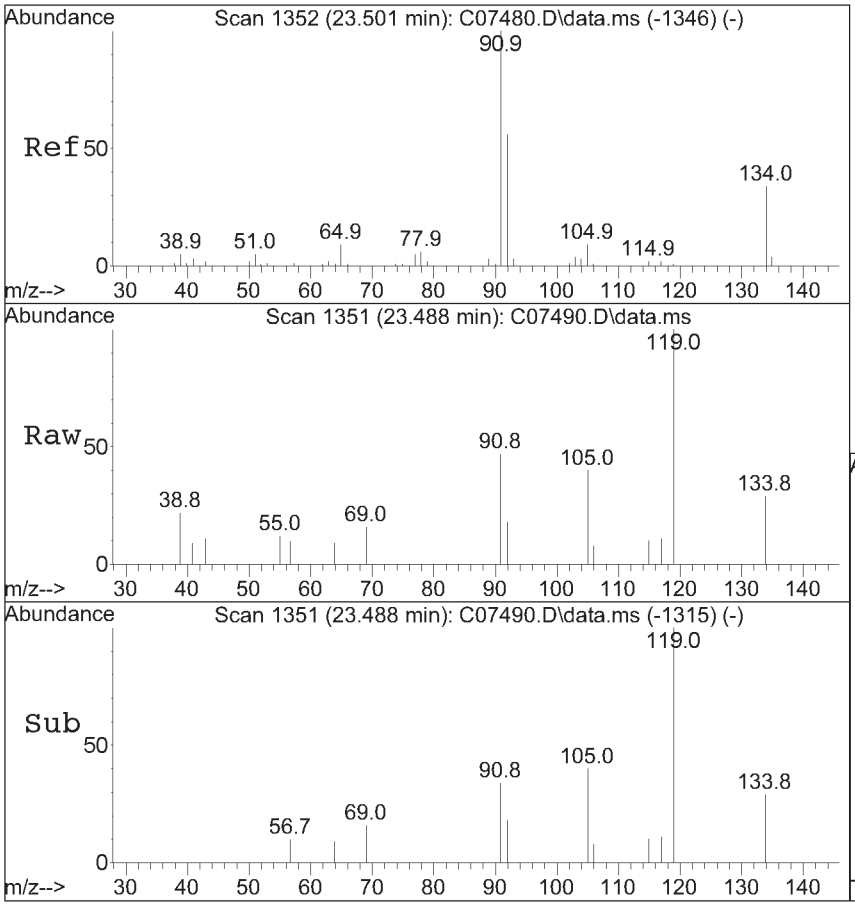


#72
4-ISOPROPYLTOLUENE
Concen: 0.03 PPBv
RT: 22.855 min Scan# 1305
Delta R.T. 0.001 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:119 Resp: 38219

Ion	Ratio	Lower	Upper
119	100		
134	22.2	0.0	0.0#
91	0.0	0.0	0.0

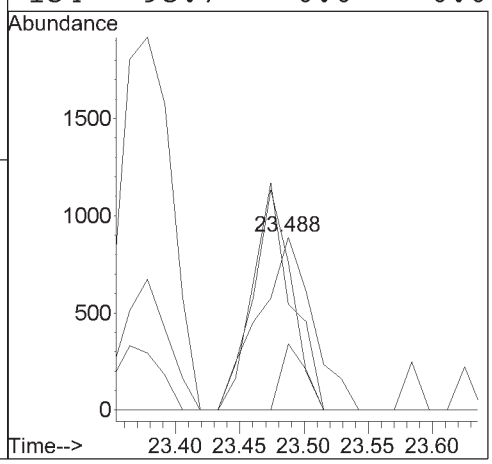




#74
N-BUTYLBENZENE
Concen: 0.02 PPBv
RT: 23.493 min Scan# 1351
Delta R.T. -0.006 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 91 Resp: 26109

Ion	Ratio	Lower	Upper
91	100		
92	0.0	0.0	0.0
105	91.6	0.0	0.0#
134	93.7	0.0	0.0#



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

SG-1-030311

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-09	File ID:	B36766.D
Sampled:	03/03/11 11:10			Analyzed:	03/11/11 23:19
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104256	Sequence:	S101779	Calibration:	1102028
Instrument:	Air2				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
108-88-3	Toluene	27.6	103.85	

Quantitation Report (QT Reviewed)

Data File : G:\MAR2011\AIR2\031111\B36766.D Vial: 12
Acq On : 11 Mar 2011 11:19 pm Operator: KG
Sample : sb25245-09 @ sg-1 1x to-15 Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 14 10:46 2011 Quant Results File: T2021511H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

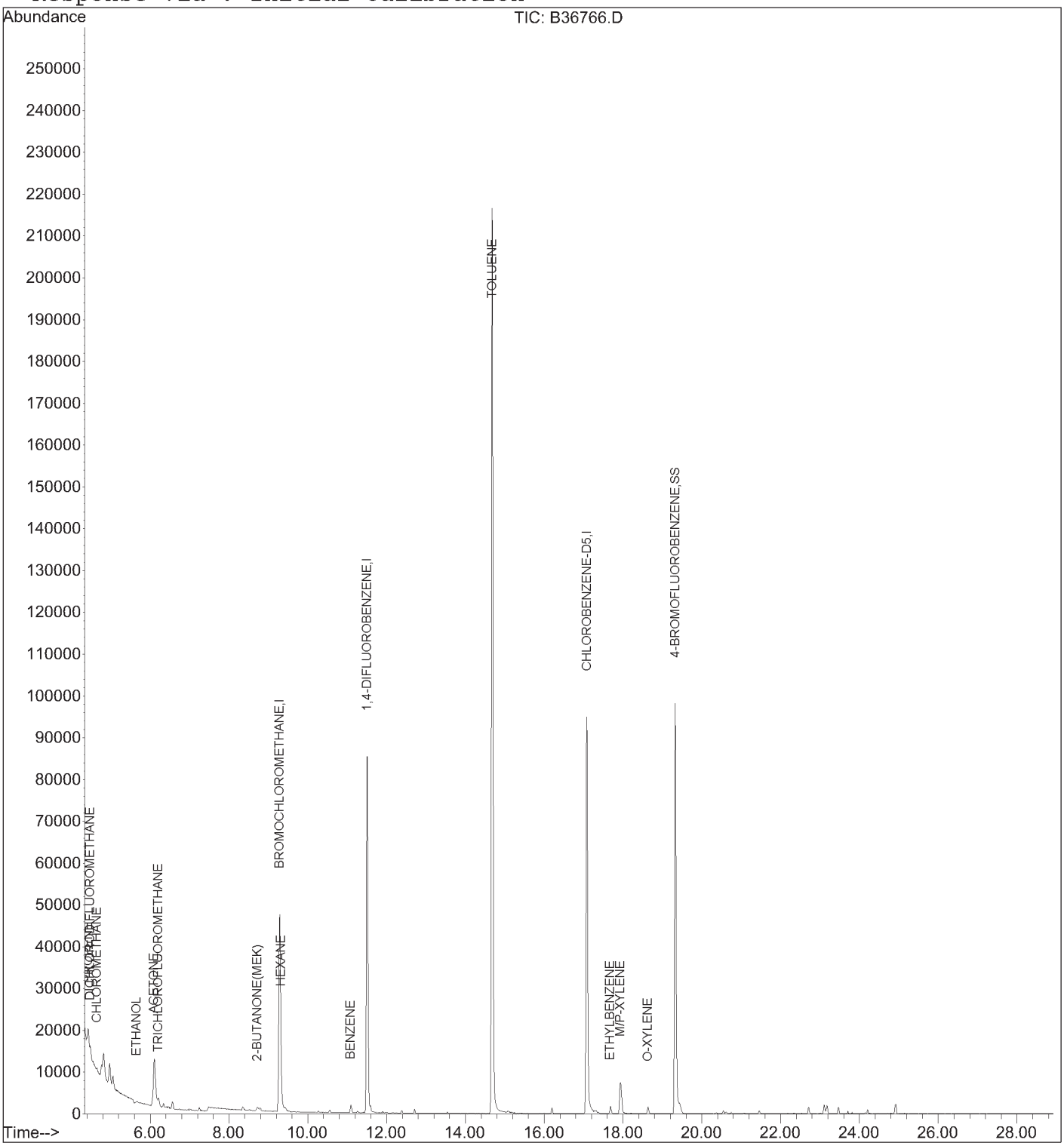
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.29	128	205389	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	11.51	114	992271	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.08	82	474767	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.33	95	548083	10.66	PPBv		0.00
Spiked Amount 10.000	Range 9 - 15		Recovery = 106.60%#				
Target Compounds							Qvalue
2) PROPENE	4.42	42	19594	1.29	PPBv	#	60
3) DICHLORODIFLUOROMETHANE	4.48	85	43197	0.66	PPBv		100
4) CHLOROMETHANE	4.66	50	8019m	0.27	PPBv		
10) ACETONE	6.11	58	75917	9.96	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.22	101	25296m	0.37	PPBv		
12) ETHANOL	5.65	45	9539m	1.66	PPBv		
22) 2-BUTANONE(MEK)	8.73	72	3404m	0.31	PPBv		
24) HEXANE	9.32	57	14763m	0.38	PPBv		
30) BENZENE	11.10	78	27312	0.37	PPBv		100
43) TOLUENE	14.68	91	2412173	27.65	PPBv	#	100
51) ETHYLBENZENE	17.69	91	28129	0.29	PPBv	#	100
52) M/P-XYLENE	17.94	106	52998	1.34	PPBv		96
55) O-XYLENE	18.63	106	8663m	0.22	PPBv		

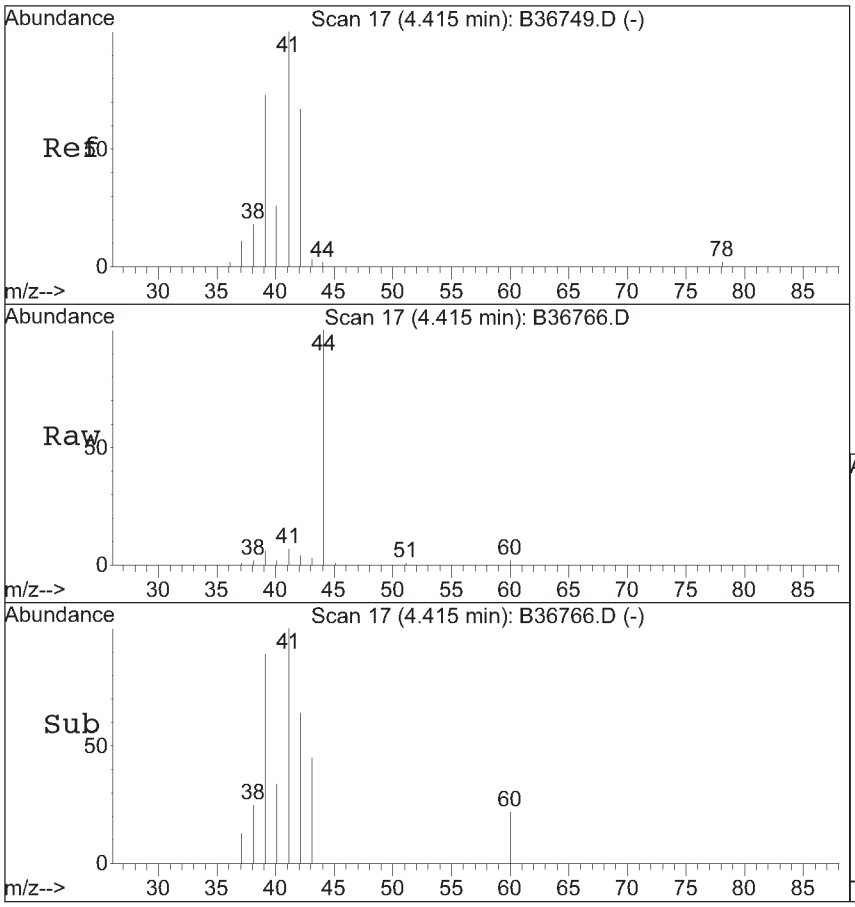
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\MAR2011\AIR2\031111\B36766.D Vial: 12
Acq On : 11 Mar 2011 11:19 pm Operator: KG
Sample : sb25245-09 @ sg-1 1x to-15 Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 14 10:46 2011 Quant Results File: T2021511H.RE

Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration

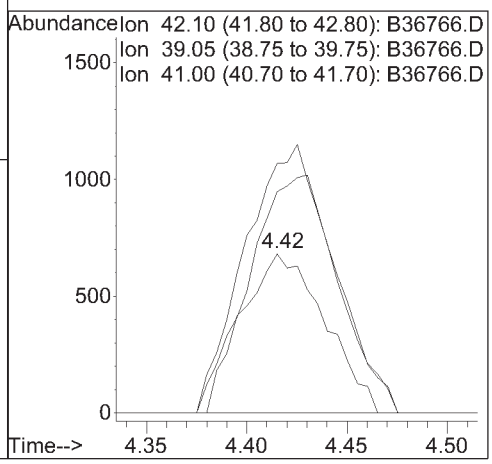


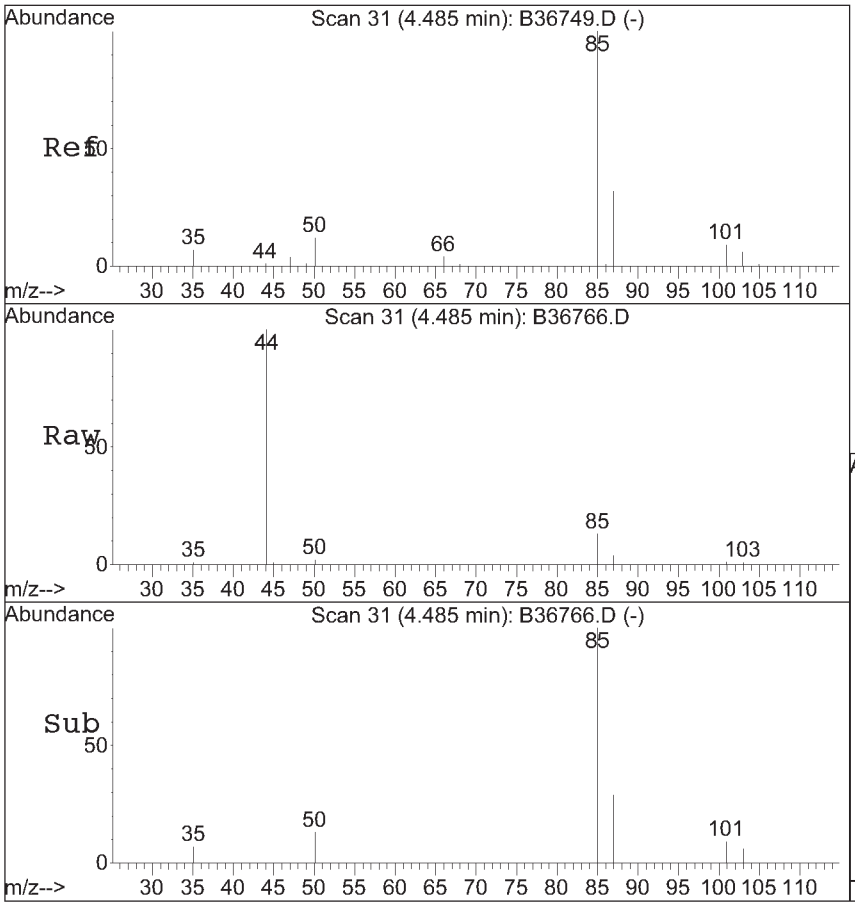


#2
PROPENE
Concen: 1.29 PPBv
RT: 4.42 min Scan# 17
Delta R.T. 0.00 min
Lab File: B36766.D
Acq: 11 Mar 2011 11:19 pm

Tgt Ion: 42 Resp: 19594

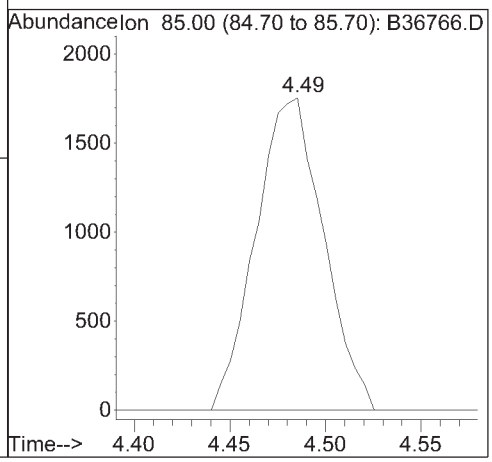
Ion	Ratio	Lower	Upper
42	100		
39	162.2	85.8	128.8#
41	178.7	112.8	169.2#

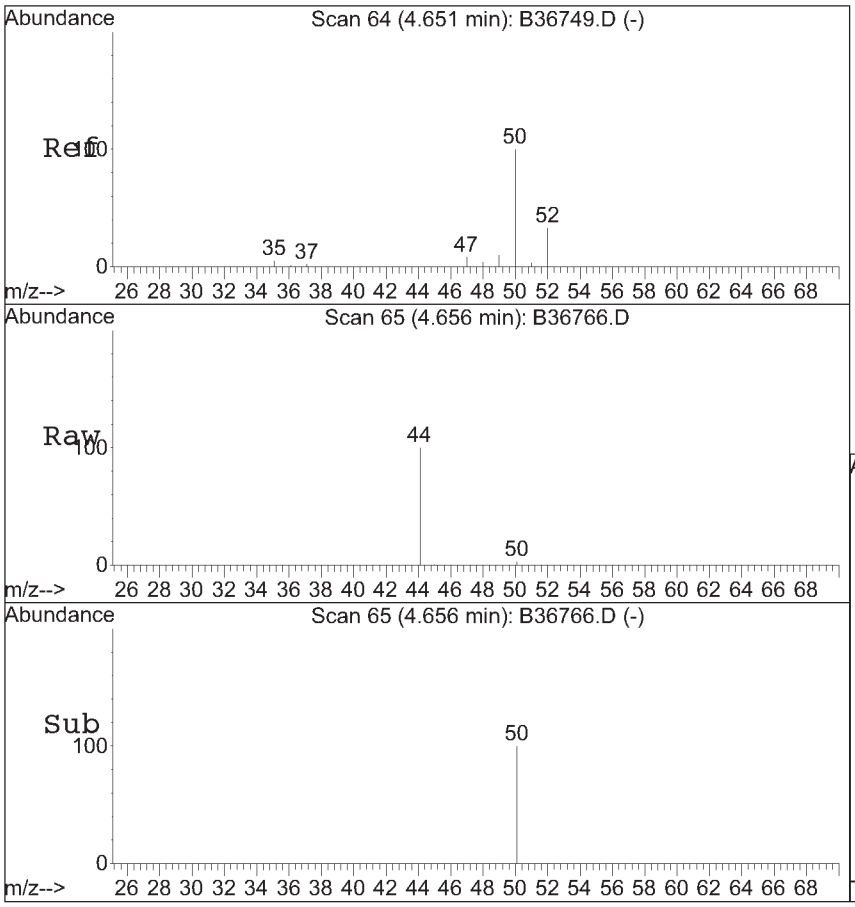




#3
DICHLORODIFLUOROMETHANE
Concen: 0.66 PPBv
RT: 4.48 min Scan# 31
Delta R.T. 0.00 min
Lab File: B36766.D
Acq: 11 Mar 2011 11:19 pm

Tgt Ion: 85 Resp: 43197

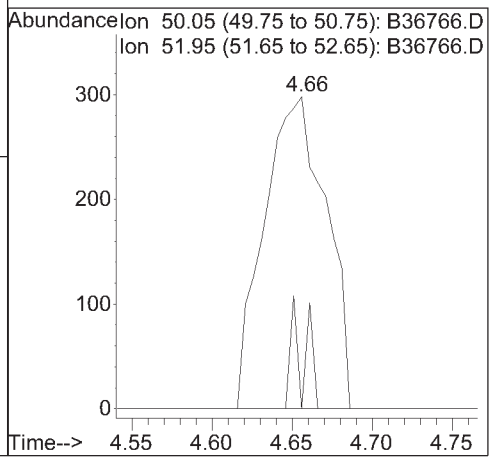


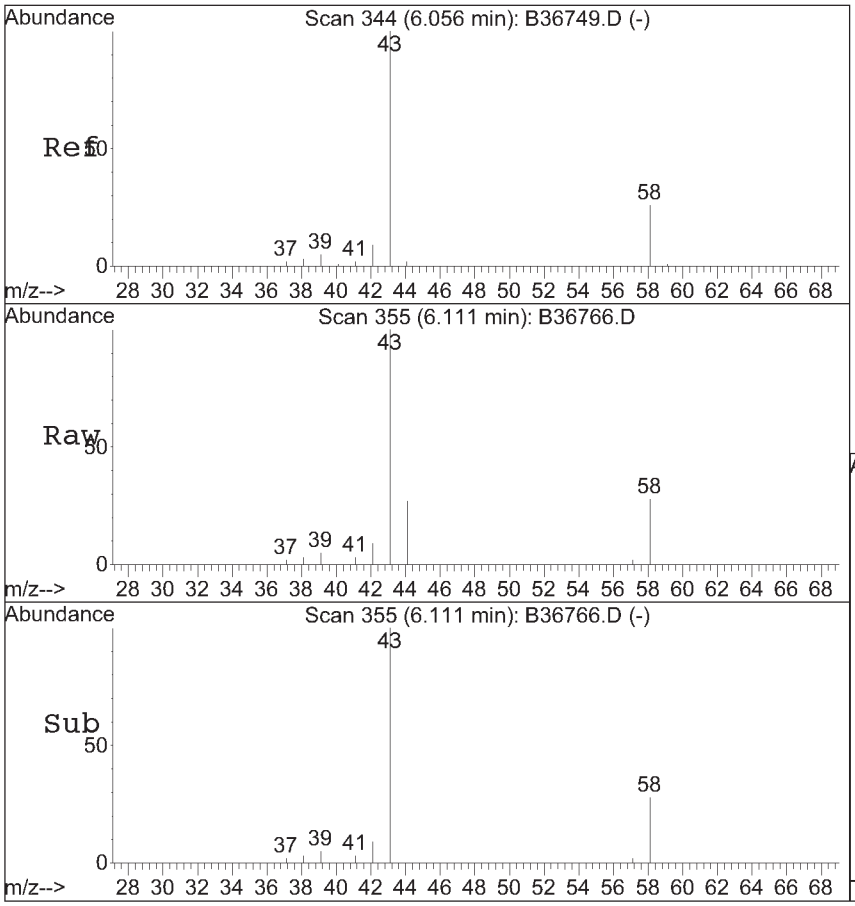


#4
CHLOROMETHANE
Concen: 0.27 PPBv m
RT: 4.66 min Scan# 65
Delta R.T. 0.01 min
Lab File: B36766.D
Acq: 11 Mar 2011 11:19 pm

Tgt Ion: 50 Resp: 8019

Ion	Ratio	Lower	Upper
50	100		
52	0.0	0.0	0.0

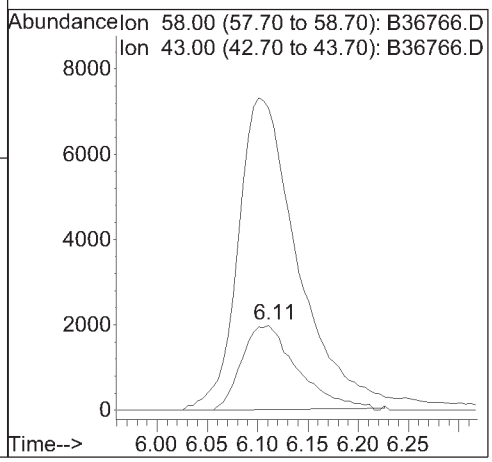


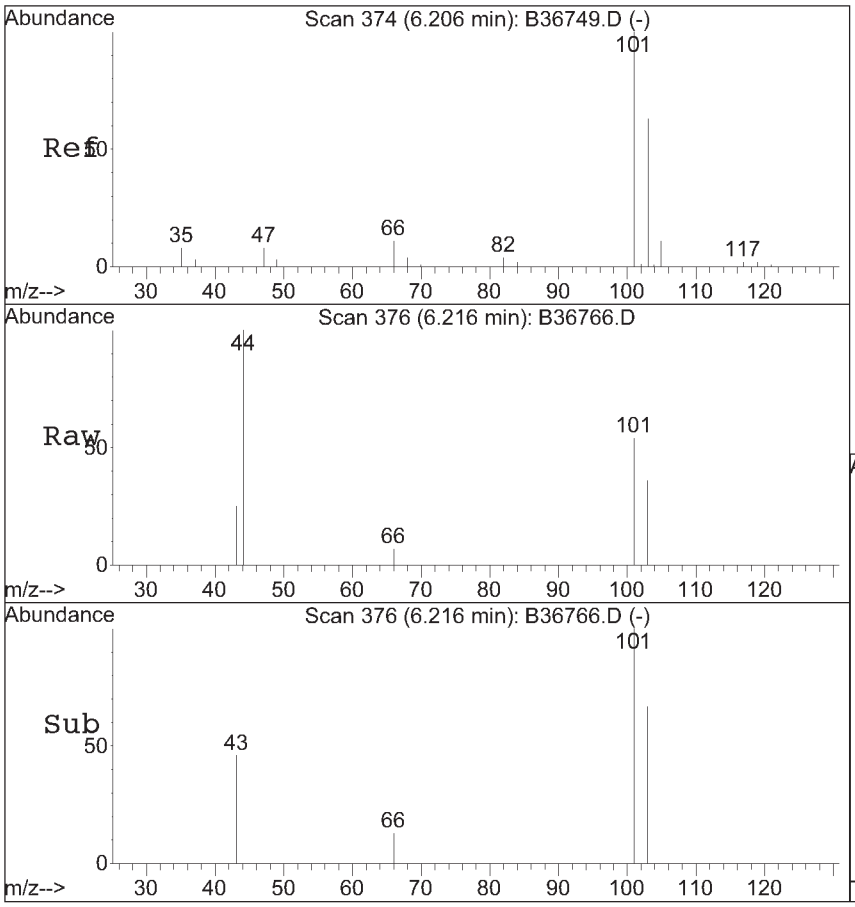


#10
ACETONE
Concen: 9.96 PPBv
RT: 6.11 min Scan# 355
Delta R.T. 0.06 min
Lab File: B36766.D
Acq: 11 Mar 2011 11:19 pm

Tgt Ion: 58 Resp: 75917

Ion	Ratio	Lower	Upper
58	100		
43	375.7	0.0	0.0#

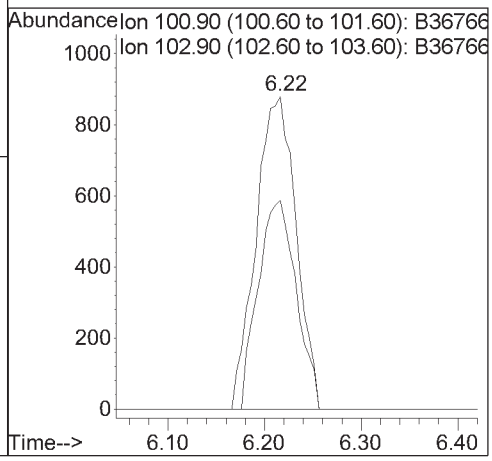


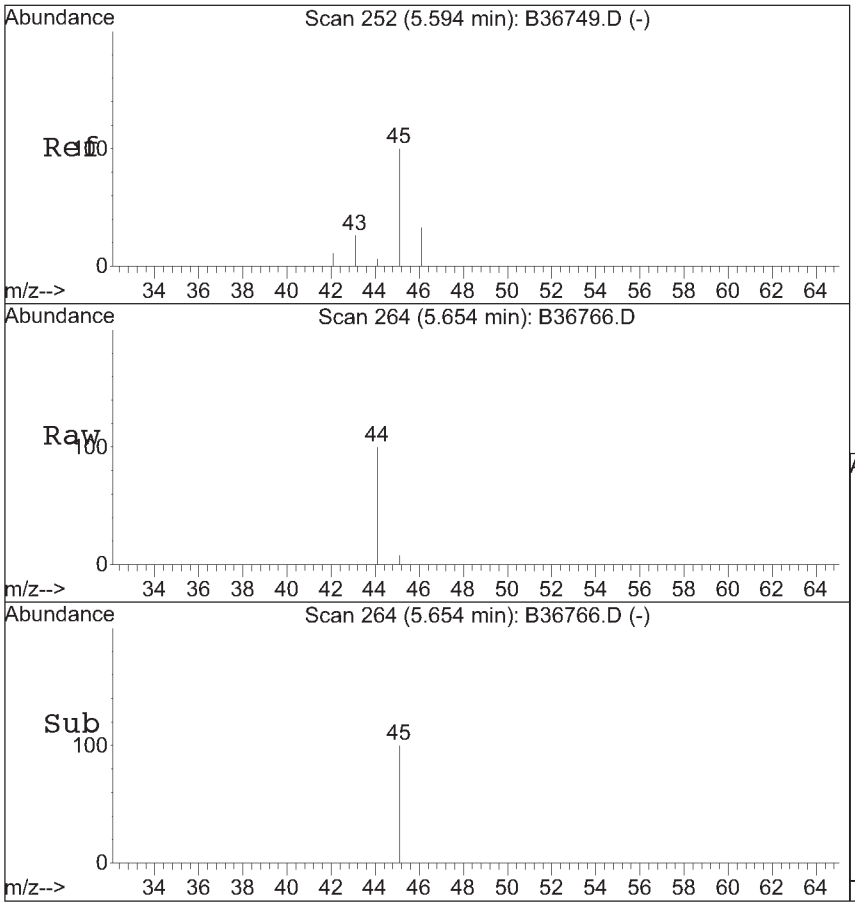


#11
TRICHLOROFLUOROMETHANE
Concen: 0.37 PPBv m
RT: 6.22 min Scan# 376
Delta R.T. 0.01 min
Lab File: B36766.D
Acq: 11 Mar 2011 11:19 pm

Tgt Ion:101 Resp: 25296

Ion	Ratio	Lower	Upper
101	100		
103	0.0	51.4	77.2#

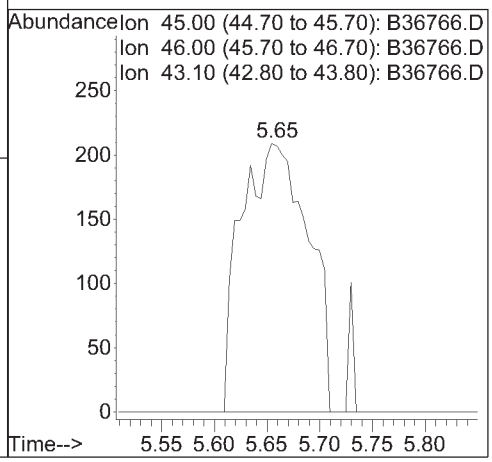


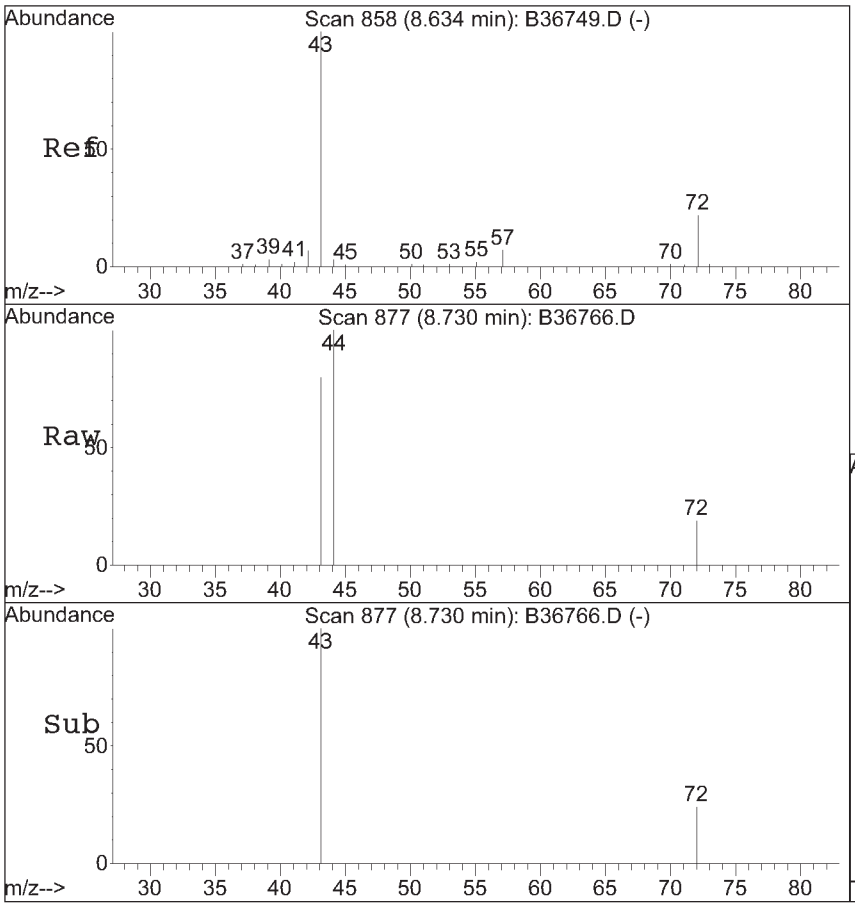


#12
ETHANOL
Concen: 1.66 PPBv m
RT: 5.65 min Scan# 264
Delta R.T. 0.08 min
Lab File: B36766.D
Acq: 11 Mar 2011 11:19 pm

Tgt Ion: 45 Resp: 9539

Ion	Ratio	Lower	Upper
45	100		
46	0.0	28.9	43.3#
43	0.0	23.7	23.7#

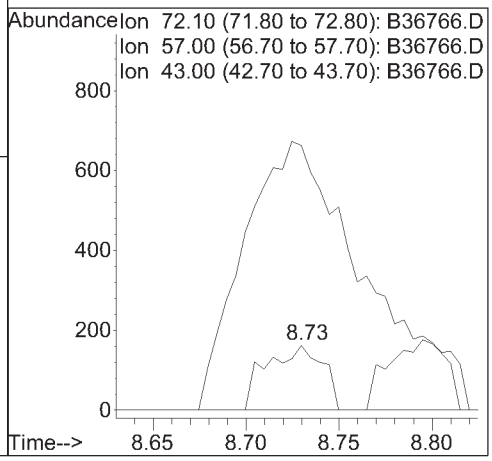


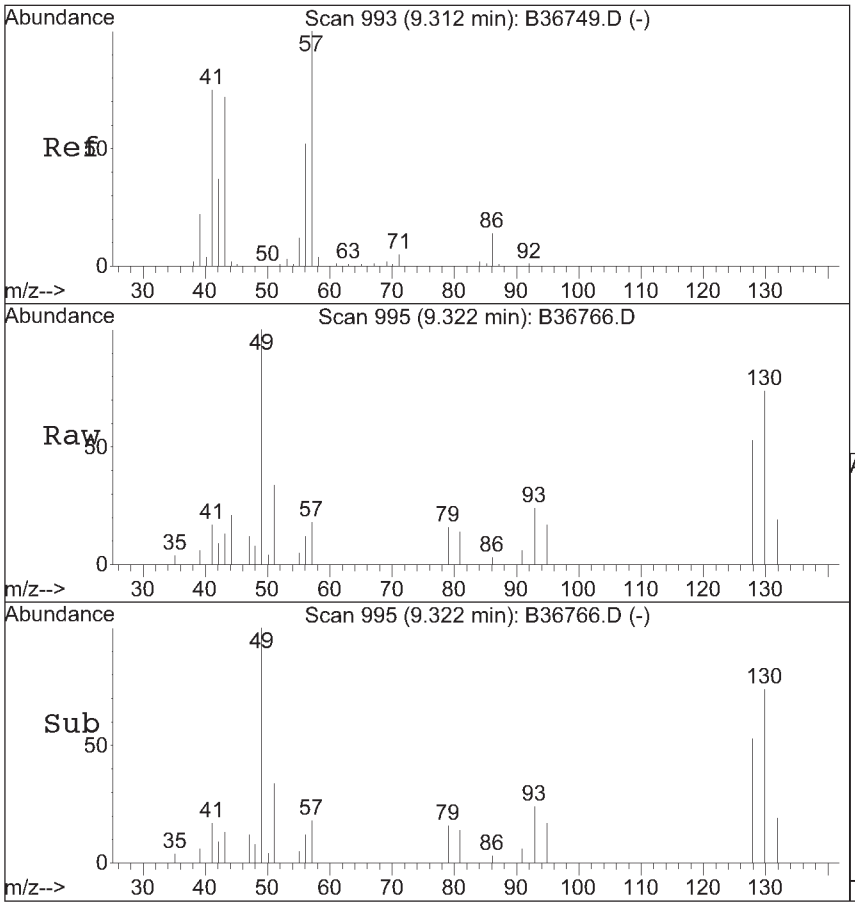


#22
2-BUTANONE(MEK)
Concen: 0.31 PPBv m
RT: 8.73 min Scan# 877
Delta R.T. 0.10 min
Lab File: B36766.D
Acq: 11 Mar 2011 11:19 pm

Tgt Ion: 72 Resp: 3404

Ion	Ratio	Lower	Upper
72	100		
57	0.0	0.0	0.0
43	0.0	0.0	0.0

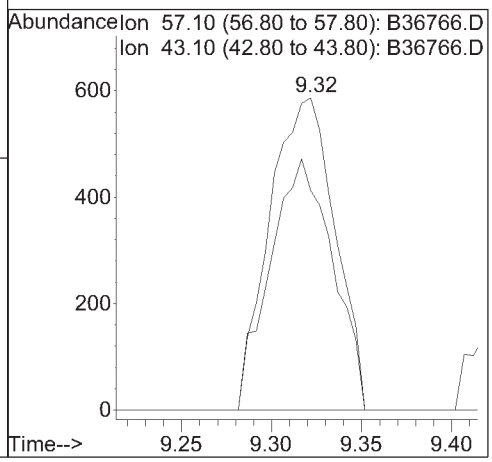


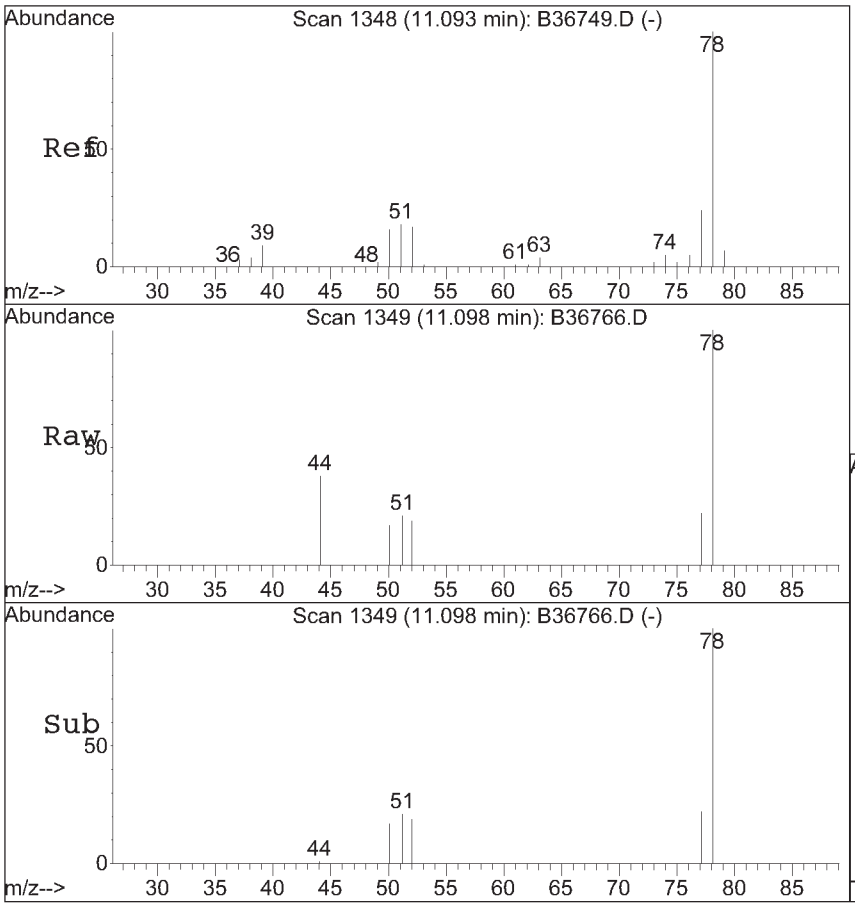


#24
HEXANE
Concen: 0.38 PPBv m
RT: 9.32 min Scan# 995
Delta R.T. 0.01 min
Lab File: B36766.D
Acq: 11 Mar 2011 11:19 pm

Tgt Ion: 57 Resp: 14763

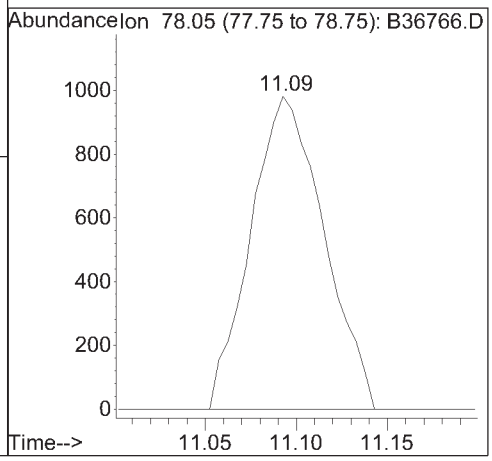
Ion	Ratio	Lower	Upper
57	100		
43	0.0	0.0	0.0

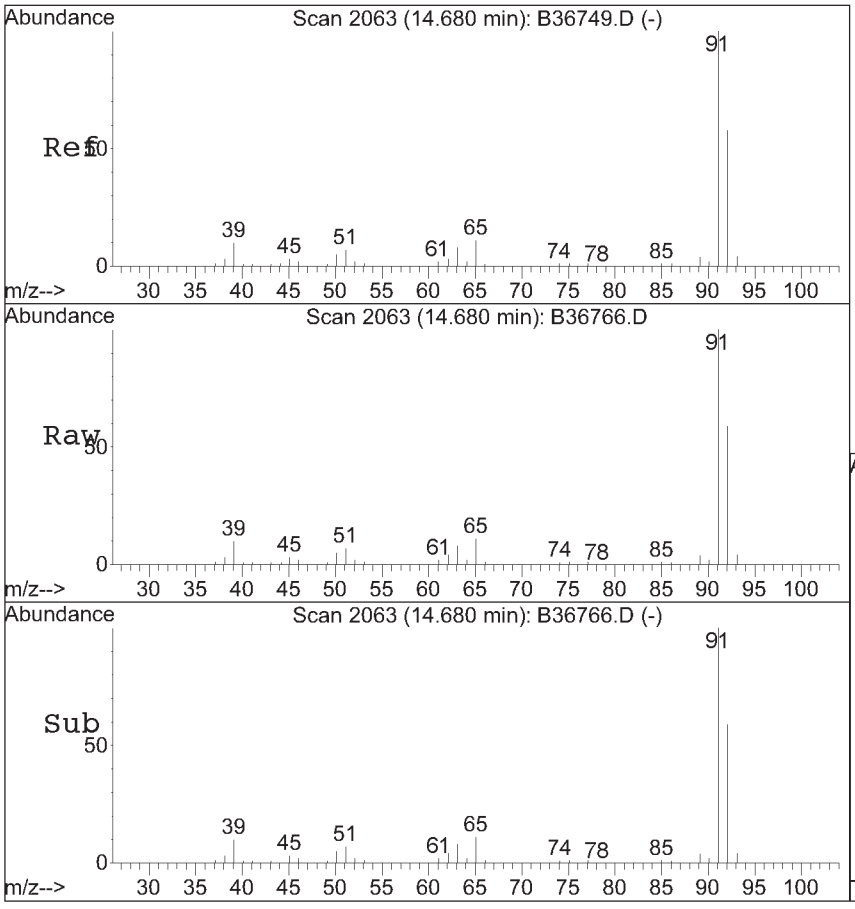




#30
BENZENE
Concen: 0.37 PPBv
RT: 11.10 min Scan# 1349
Delta R.T. 0.00 min
Lab File: B36766.D
Acq: 11 Mar 2011 11:19 pm

Tgt Ion: 78 Resp: 27312

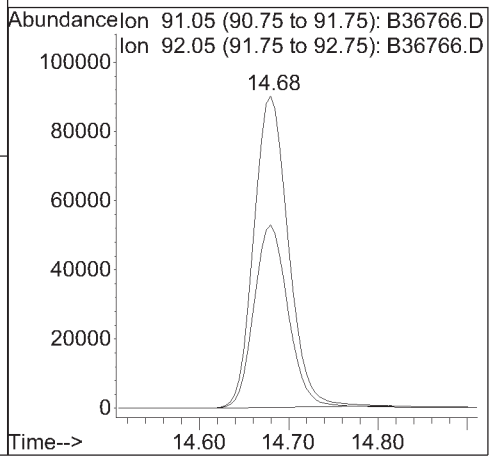


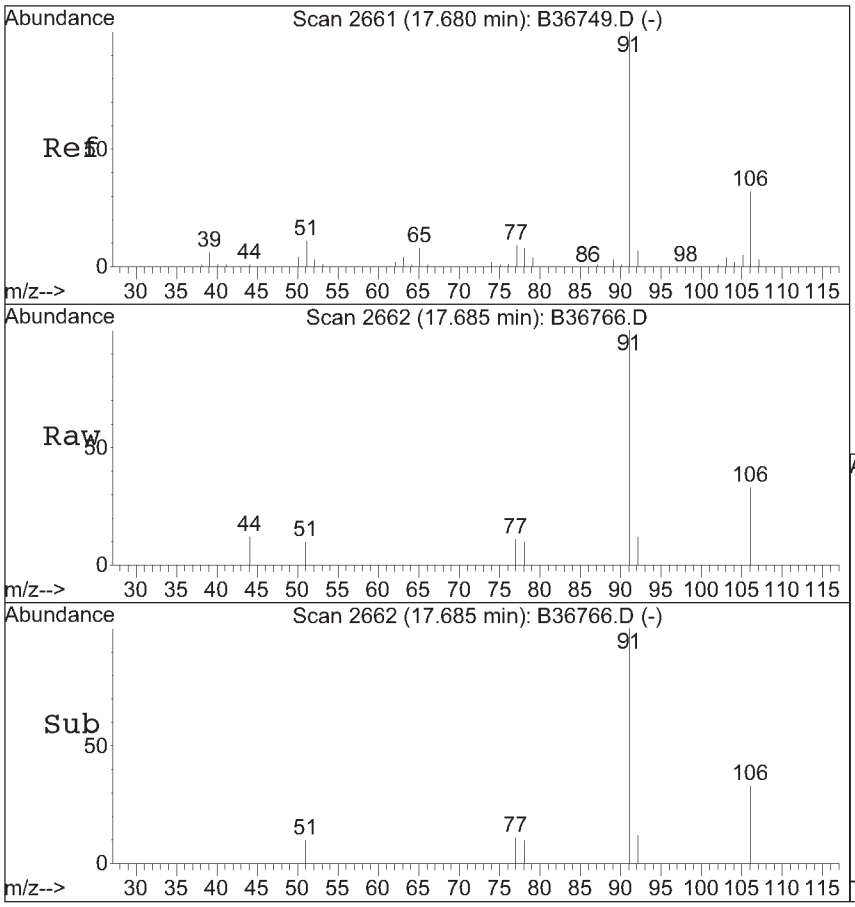


#43
TOLUENE
Concen: 27.65 PPBv
RT: 14.68 min Scan# 2063
Delta R.T. -0.00 min
Lab File: B36766.D
Acq: 11 Mar 2011 11:19 pm

Tgt Ion: 91 Resp: 2412173

Ion	Ratio	Lower	Upper
91	100		
92	58.2	0.0	0.0#

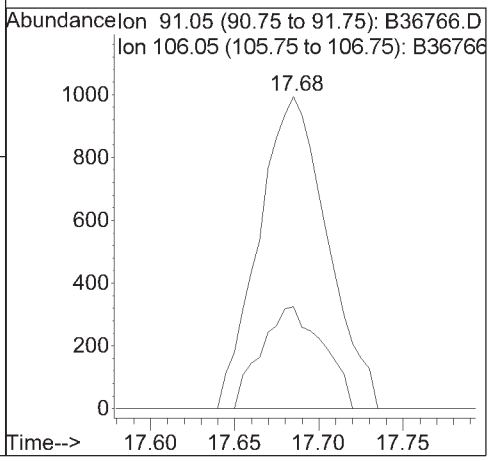


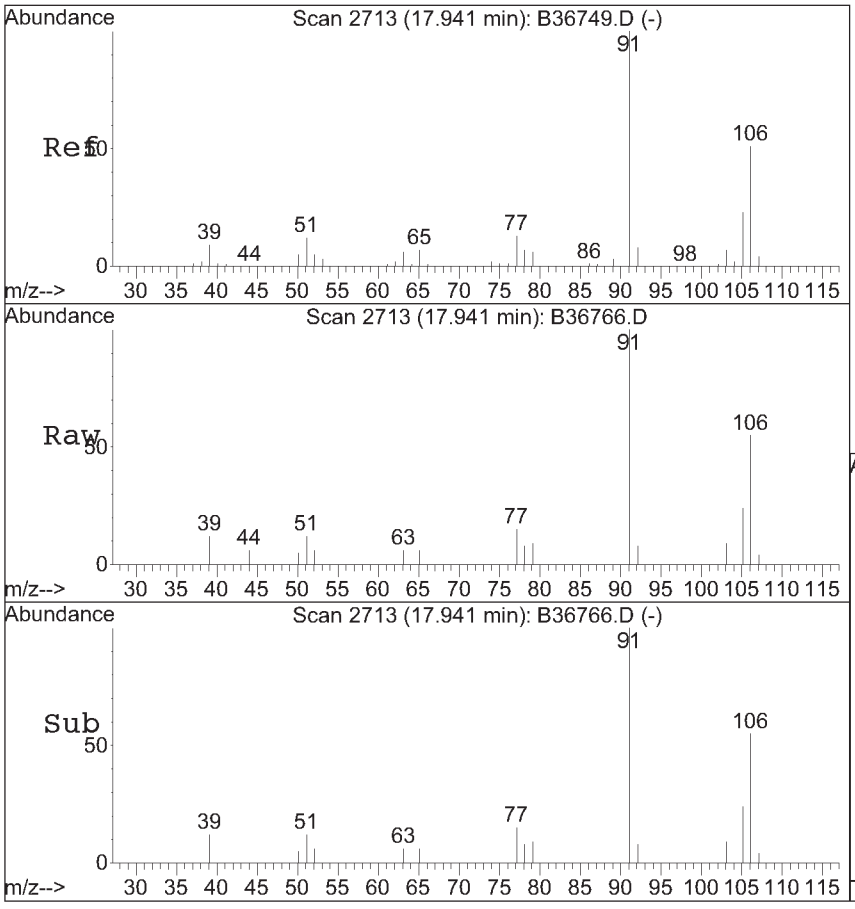


#51
ETHYLBENZENE
Concen: 0.29 PPBv
RT: 17.69 min Scan# 2662
Delta R.T. 0.00 min
Lab File: B36766.D
Acq: 11 Mar 2011 11:19 pm

Tgt Ion: 91 Resp: 28129

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

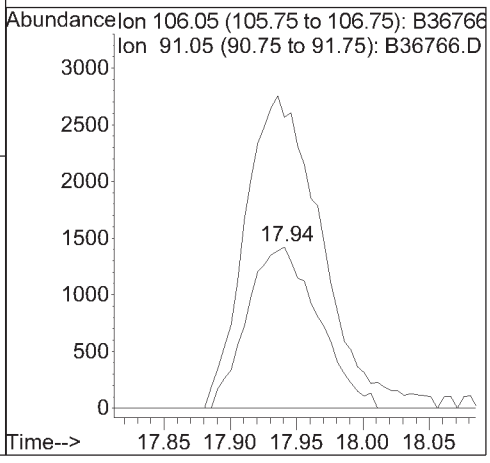




#52
M/P-XYLENE
Concen: 1.34 PPBv
RT: 17.94 min Scan# 2713
Delta R.T. -0.00 min
Lab File: B36766.D
Acq: 11 Mar 2011 11:19 pm

Tgt Ion:106 Resp: 52998

Ion	Ratio	Lower	Upper
106	100		
91	212.1	164.4	246.6



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

SG-1-030311

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-09	File ID:	C07490.D
Sampled:	03/03/11 11:10			Analyzed:	03/10/11 19:39
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010	Instrument:	Air4

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
71-55-6	1,1,1-Trichloroethane	0.11000	0.60	
115-07-1	Propene	1.0800	1.86	
75-71-8	Dichlorodifluoromethane (Freon12)	0.43000	2.13	
74-87-3	Chloromethane	0.23000	0.48	
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.057000	0.40	U
75-01-4	Vinyl chloride	0.064000	0.16	U
106-99-0	1,3-Butadiene	0.055000	0.12	U
74-83-9	Bromomethane	0.052000	0.20	U
75-00-3	Chloroethane	0.076000	0.20	U
67-64-1	Acetone	9.8400	23.38	
75-69-4	Trichlorofluoromethane (Freon 11)	0.26000	1.46	
64-17-5	Ethanol	1.3400	2.53	
75-35-4	1,1-Dichloroethene	0.073000	0.29	U
107-13-1	Acrylonitrile	0.064000	0.14	U
75-09-2	Methylene chloride	0.090000	0.31	J
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.090000	0.69	J
75-15-0	Carbon disulfide	0.057000	0.18	U
156-60-5	trans-1,2-Dichloroethene	0.042000	0.17	U
75-34-3	1,1-Dichloroethane	0.049000	0.20	U
1634-04-4	Methyl tert-butyl ether	0.049000	0.18	U
67-63-0	Isopropyl alcohol	0.34000	0.83	J
78-93-3	2-Butanone (MEK)	0.87000	2.57	
156-59-2	cis-1,2-Dichloroethene	0.049000	0.19	U
110-54-3	Hexane	0.50000	1.76	
141-78-6	Ethyl acetate	0.082000	0.30	U
67-66-3	Chloroform	0.045000	0.22	U
109-99-9	Tetrahydrofuran	0.053000	0.16	U
107-06-2	1,2-Dichloroethane	0.046000	0.19	U
71-43-2	Benzene	0.51000	1.63	
56-23-5	Carbon tetrachloride	0.080000	0.50	J
110-82-7	Cyclohexane	0.081000	0.28	U
78-87-5	1,2-Dichloropropane	0.049000	0.23	U
75-27-4	Bromodichloromethane	0.053000	0.36	U
79-01-6	Trichloroethene	0.052000	0.28	U
123-91-1	1,4-Dioxane	0.067000	0.24	U
142-82-5	n-Heptane	0.20000	0.82	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.053000	0.22	U
10061-01-5	cis-1,3-Dichloropropene	0.047000	0.21	U
10061-02-6	trans-1,3-Dichloropropene	0.047000	0.21	U
79-00-5	1,1,2-Trichloroethane	0.066000	0.36	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

SG-1-030311

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-09	File ID:	C07490.D
Sampled:	03/03/11 11:10			Analyzed:	03/10/11 19:39
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
108-88-3	Toluene	31.670	119.17	E
591-78-6	2-Hexanone (MBK)	0.042000	0.17	U
124-48-1	Dibromochloromethane	0.059000	0.50	U
106-93-4	1,2-Dibromoethane (EDB)	0.043000	0.33	U
127-18-4	Tetrachloroethene	0.19000	1.29	
108-90-7	Chlorobenzene	0.061000	0.28	U
100-41-4	Ethylbenzene	0.49000	2.12	
630-20-6	1,1,1,2-Tetrachloroethane	0.047000	0.32	U
179601-23-1	m,p-Xylene	1.8600	8.06	
75-25-2	Bromoform	0.046000	0.48	U
100-42-5	Styrene	0.053000	0.23	U
95-47-6	o-Xylene	0.43000	1.86	
79-34-5	1,1,2,2-Tetrachloroethane	0.066000	0.45	U
108-67-8	1,3,5-Trimethylbenzene	0.080000	0.39	J
622-96-8	4-Ethyltoluene	0.17000	0.84	
95-63-6	1,2,4-Trimethylbenzene	0.32000	1.57	
98-82-8	Isopropylbenzene	0.056000	0.28	U
541-73-1	1,3-Dichlorobenzene	0.055000	0.33	U
100-44-7	Benzyl chloride	0.062000	0.32	U
106-46-7	1,4-Dichlorobenzene	0.061000	0.37	U
91-20-3	Naphthalene	0.18300	0.96	U
95-50-1	1,2-Dichlorobenzene	0.053000	0.32	U
120-82-1	1,2,4-Trichlorobenzene	0.053000	0.39	U
87-68-3	Hexachlorobutadiene	0.040000	0.43	U
135-98-8	sec-Butylbenzene	0.052000	0.29	U
99-87-6	4-Isopropyltoluene	0.062000	0.33	U
104-51-8	n-Butylbenzene	0.056000	0.31	U

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07490.D
Acq On : 10 Mar 2011 7:39 pm
Operator : KRL
Sample : sb25245-09 @ sg-1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 11 15:09:37 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	10.142	128	446940	10.00	PPBv	#	0.01
37) 1,4-DIFLUROBENZENE	12.339	114	2338443	10.00	PPBv		0.00
54) CHLOROBENZENE-D5	17.882	54	316359	10.00	PPBv	#	0.00
System Monitoring Compounds							
63) 4-BROMOFLUOROBENZENE	20.103	95	1034131	9.39	PPBv		0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 93.90%#				
Target Compounds							Qvalue
2) PROPENE	5.100	42	153878	1.08	PPBv	#	100
3) DICHLORODIFLUOROMETHANE	5.175	85	278554	0.43	PPBv	#	100
4) CHLOROMETHANE	5.358	50	76266	0.23	PPBv	#	100
11) ACETONE	6.836	58	1349811	9.84	PPBv	#	100
12) TRICHLOROFLUOROMETHANE	7.043	101	233122	0.26	PPBv	#	100
13) ETHANOL	6.328	45	107338	1.34	PPBv	#	100
17) METHYLENE CHLORIDE	7.840	84	23610	0.09	PPBv	#	100
18) FREON 113	8.097	101	50169	0.09	PPBv	#	100
19) CARBON DISULFIDE	8.174	76	27273	0.05	PPBv		100
22] 1,1-DICHLOROETHANE (SIM)	9.035	63	13191	Below Cal		#	100
24) IPA	7.087	45	143438	0.34	PPBv	#	100
25) 2-BUTANONE (MEK)	9.456	72	83714	0.87	PPBv	#	100
27) HEXANE	10.185	57	162514	0.50	PPBv	#	100
29) CHLOROFORM	10.279	83	12719m	0.03	PPBv		
32) 1,1,1-TRICHLOROETHANE	11.420	97	43555	0.11	PPBv	#	100
33) BENZENE	11.951	78	342454	0.51	PPBv		100
34) CARBON TETRACHLORIDE	12.130	119	36622	0.08	PPBv	#	100
35] CARBON TETRACHLORIDE (...	12.128	119	39537	0.06	PPBv	#	100
36) CYCLOHEXANE	12.284	56	25888m	0.08	PPBv		
43) HEPTANE	13.541	57	44113	0.20	PPBv	#	100
48) TOLUENE	15.502	91	26815256	31.67	PPBv	#	100
52) TETRACHLOROETHENE	17.014	166	84459	0.19	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.011	166	109039	0.22	PPBv	#	100
57) ETHYLBENZENE	18.471	91	544352	0.49	PPBv	#	100
58) M/P-XYLENE	18.718	106	1006154	1.86	PPBv	#	100
61) O-XYLENE	19.416	106	219450	0.43	PPBv	#	100
65) 4-ETHYLTOLUENE	21.375	105	212190	0.17	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.510	105	87539m	0.08	PPBv		
67) 1,2,4-TRIMETHYLBENZENE	22.177	105	310472	0.32	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.855	119	38219	0.03	PPBv	#	100
74) N-BUTYLBENZENE	23.493	91	26109	0.02	PPBv	#	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07490.D
Acq On : 10 Mar 2011 7:39 pm
Operator : KRL
Sample : sb25245-09 @ sg-1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 11 15:09:37 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

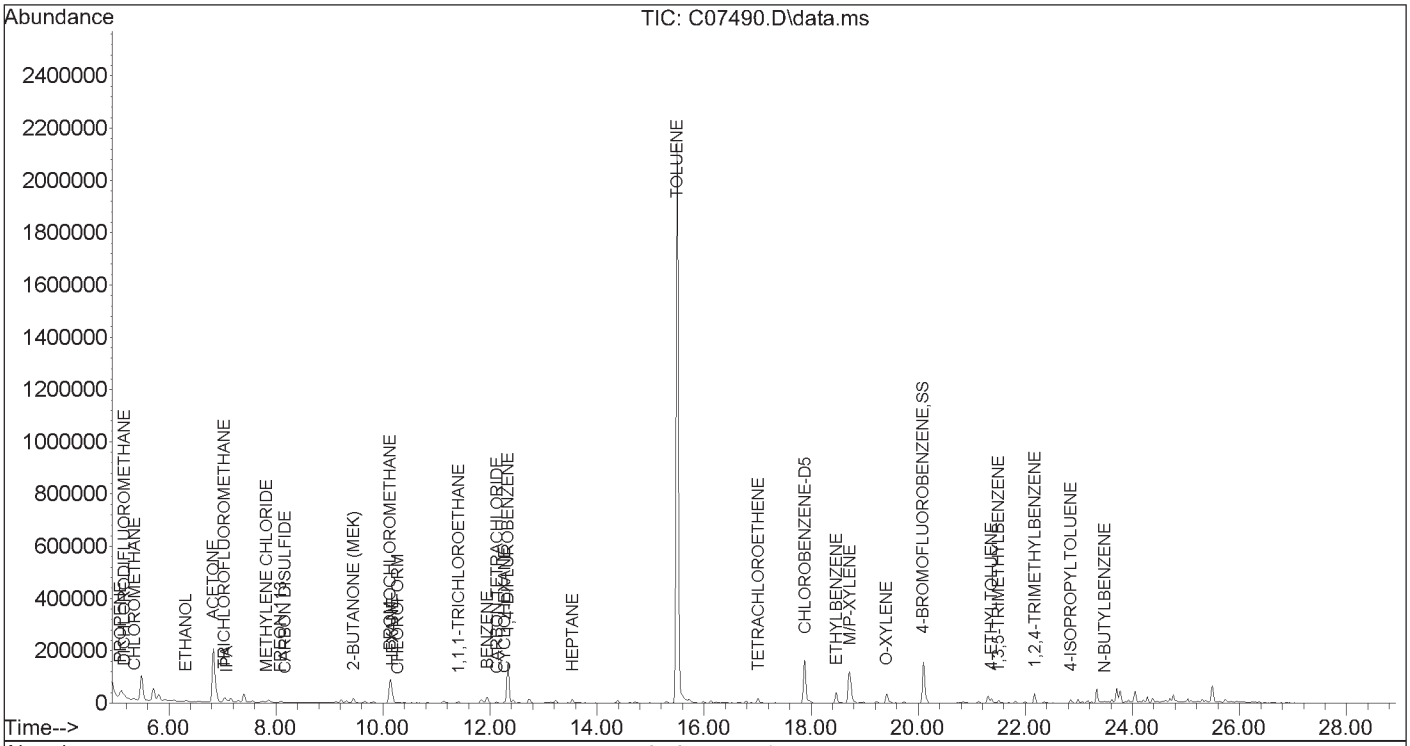
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

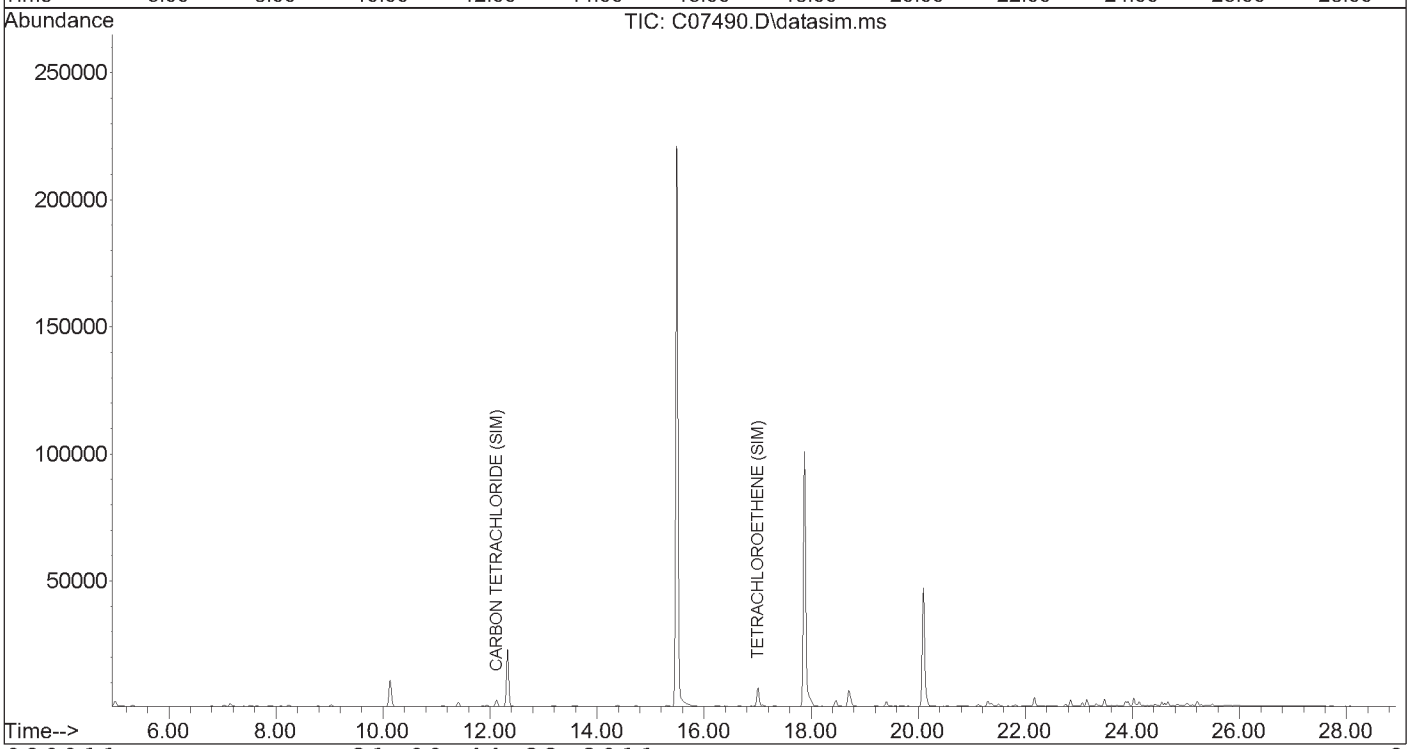
(#) = qualifier out of range (m) = manual integration (+) = signals summed

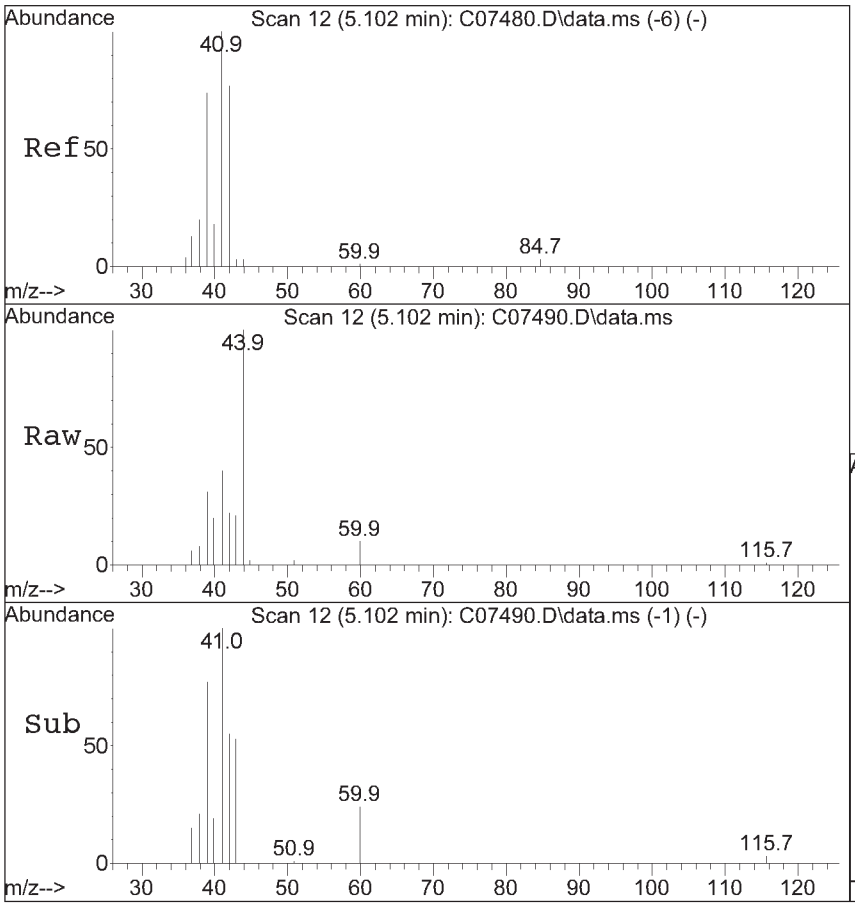
Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07490.D
Acq On : 10 Mar 2011 7:39 pm
Operator : KRL
Sample : sb25245-09 @ sg-1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 11 15:09:37 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration



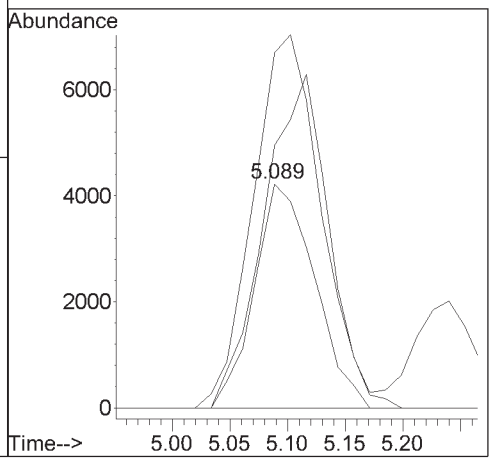


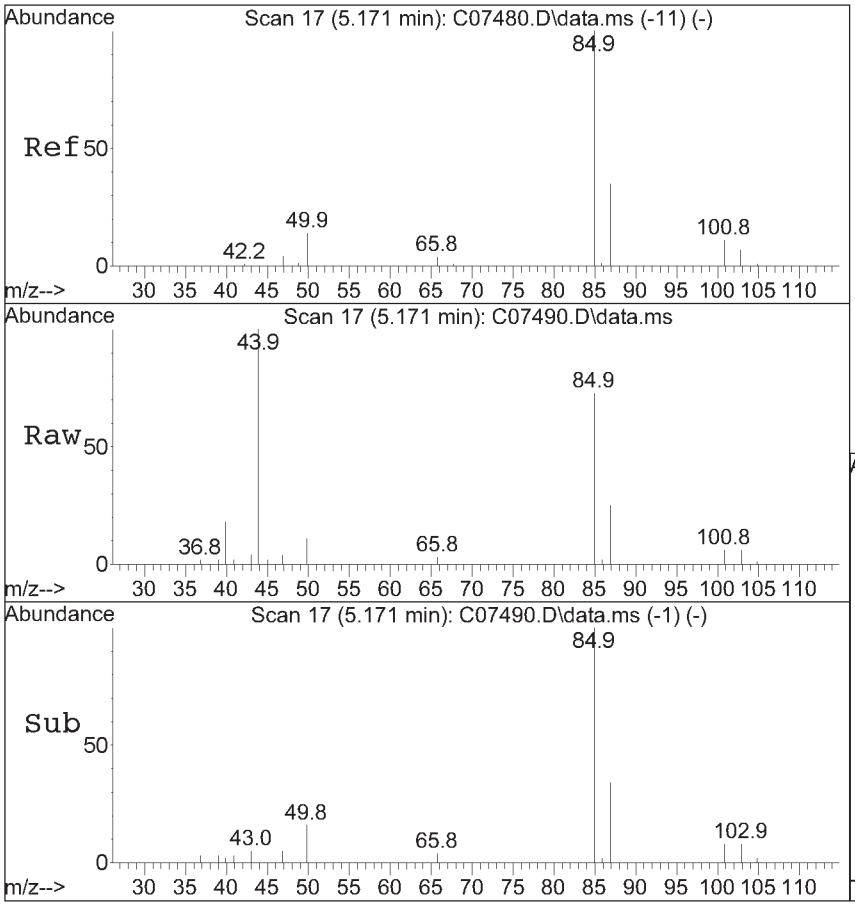


#2
PROPENE
Concen: 1.08 PPBv
RT: 5.100 min Scan# 12
Delta R.T. 0.008 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 42 Resp: 153878

Ion	Ratio	Lower	Upper
42	100		
39	158.9	0.0	0.0#
41	187.5	0.0	0.0#

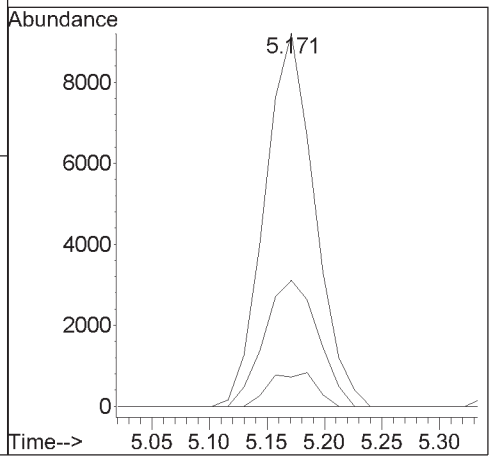


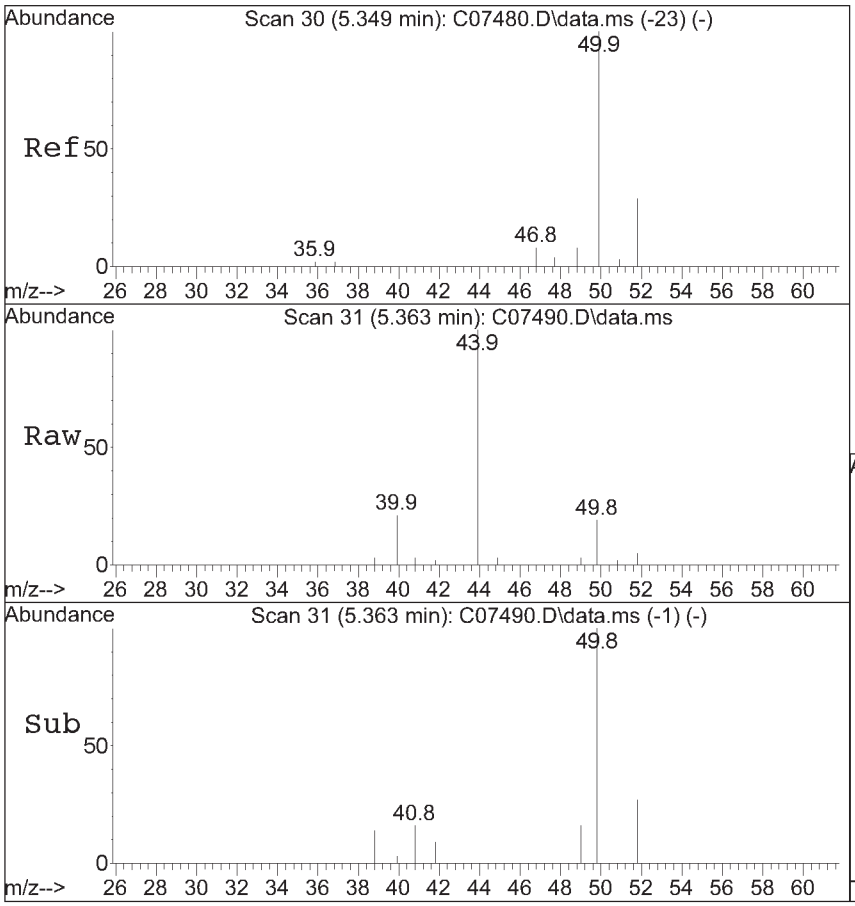


#3
DICHLORODIFLUOROMETHANE
Concen: 0.43 PPBv
RT: 5.175 min Scan# 17
Delta R.T. 0.001 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 85 Resp: 278554

Ion	Ratio	Lower	Upper
85	100		
87	36.2	0.0	0.0#
101	8.5	0.0	0.0#

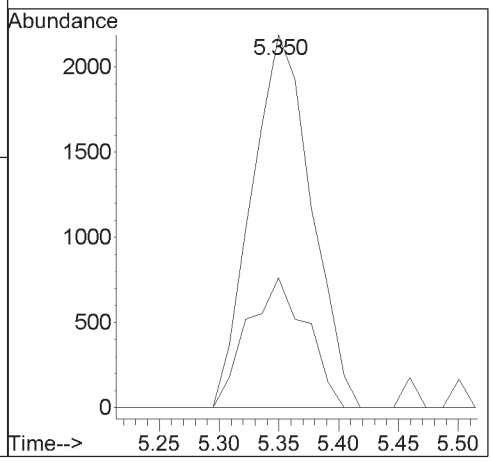


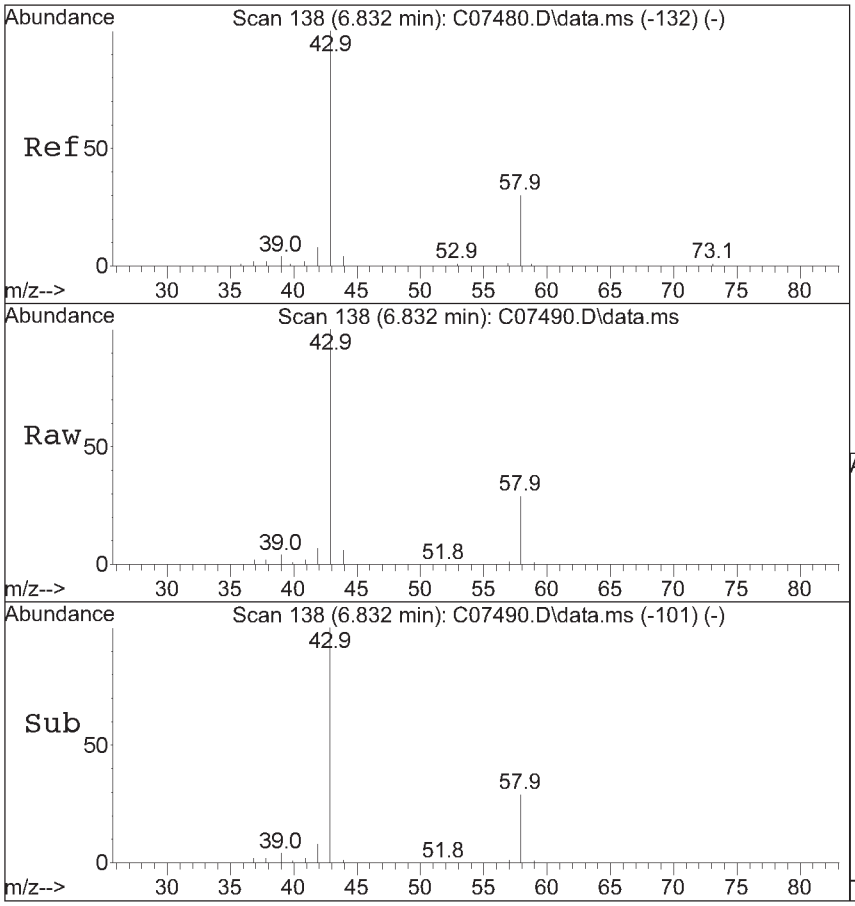


#4
CHLOROMETHANE
Concen: 0.23 PPBv
RT: 5.358 min Scan# 31
Delta R.T. 0.001 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 50 Resp: 76266

Ion	Ratio	Lower	Upper
50	100		
52	34.3	0.0	0.0#

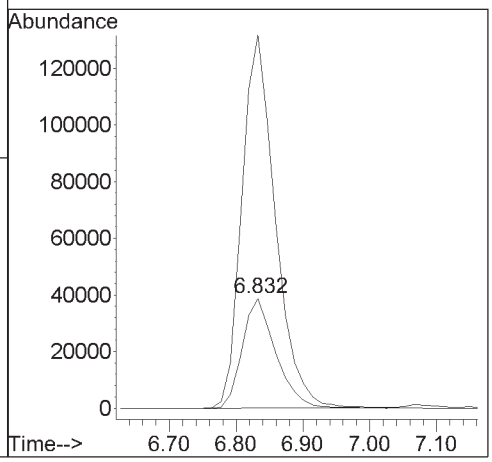


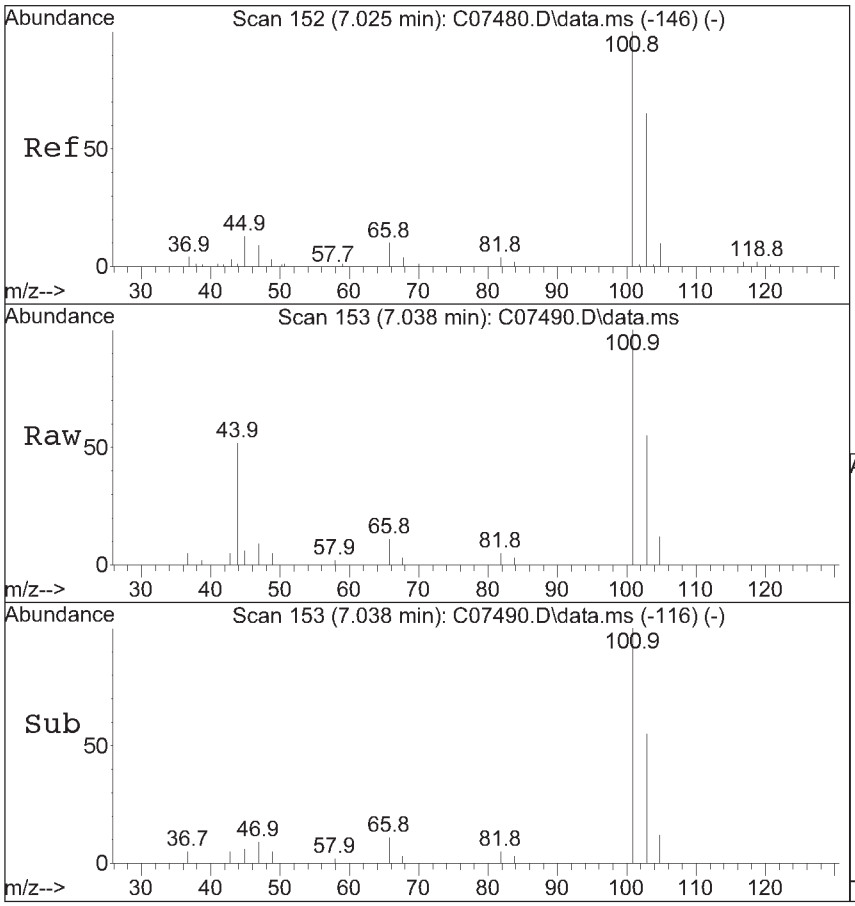


#11
ACETONE
Concen: 9.84 PPBv
RT: 6.836 min Scan# 138
Delta R.T. 0.006 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 58 Resp: 1349811

Ion	Ratio	Lower	Upper
58	100		
43	338.3	0.0	0.0#

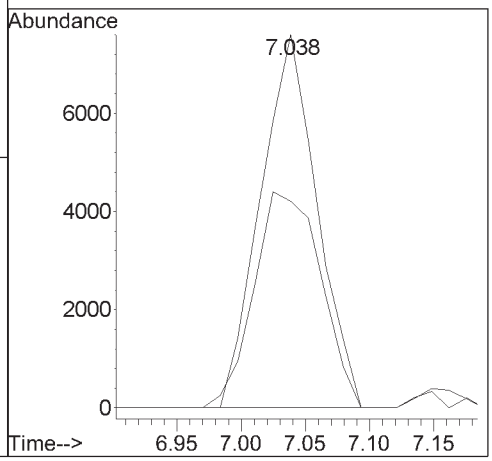


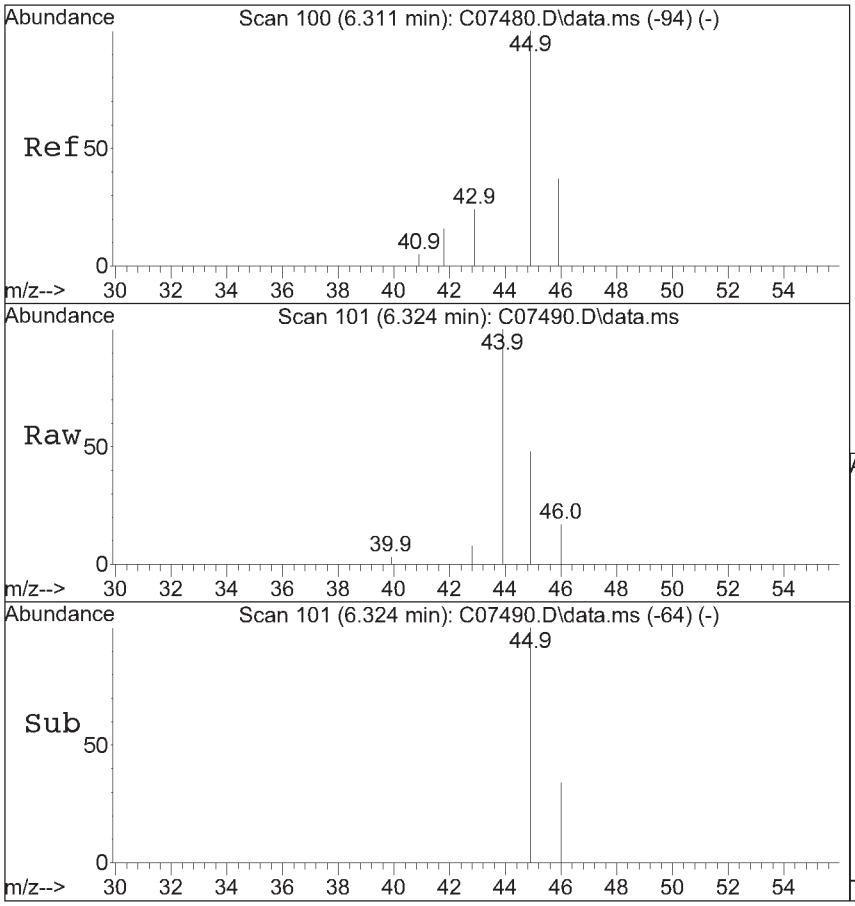


#12
TRICHLOROFLUOROMETHANE
Concen: 0.26 PPBv
RT: 7.043 min Scan# 153
Delta R.T. 0.011 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:101 Resp: 233122

Ion	Ratio	Lower	Upper
101	100		
103	68.3	0.0	0.0#

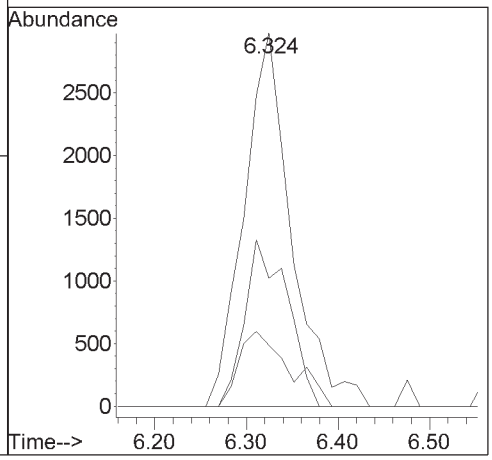


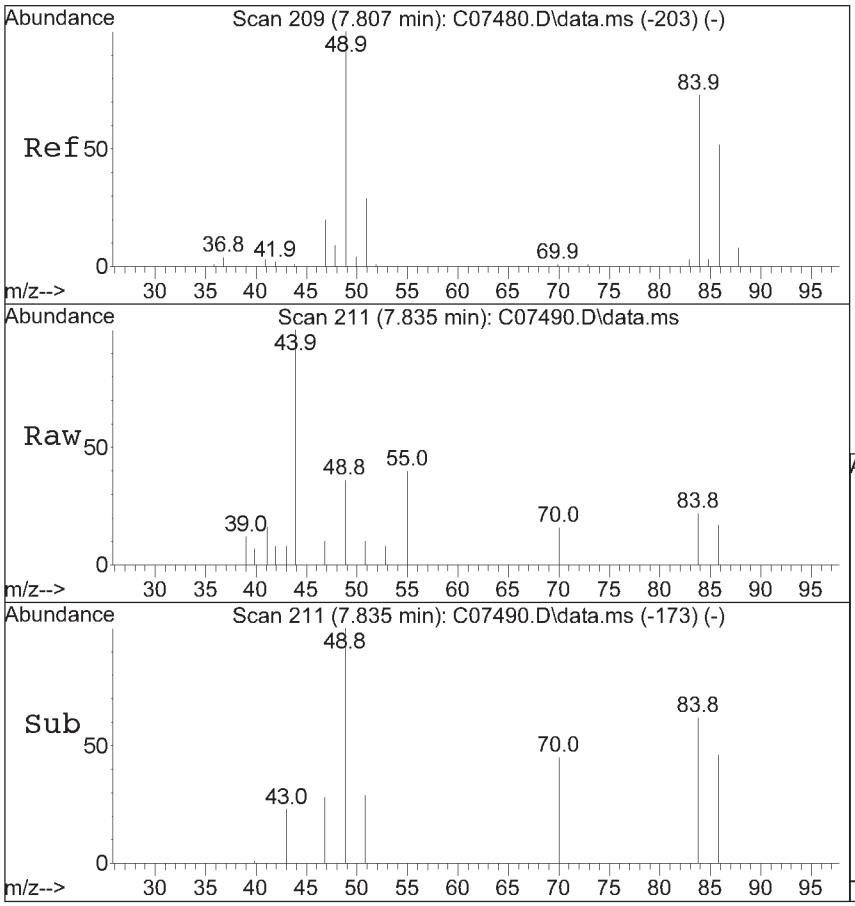


#13
ETHANOL
Concen: 1.34 PPBv
RT: 6.328 min Scan# 101
Delta R.T. 0.011 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 45 Resp: 107338

Ion	Ratio	Lower	Upper
45	100		
46	40.1	0.0	0.0#
43	0.0	0.0	0.0

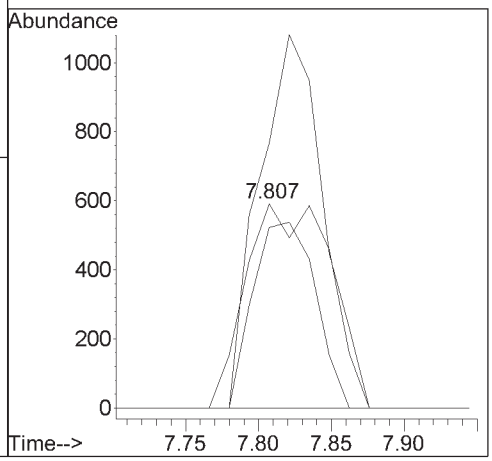


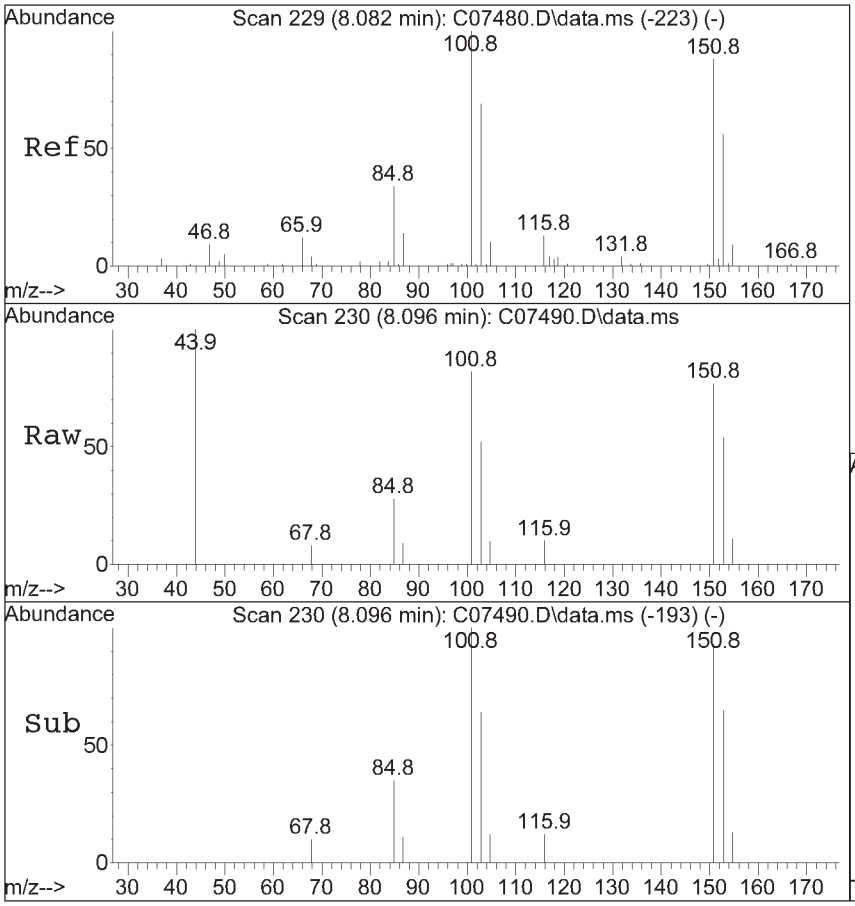


#17
METHYLENE CHLORIDE
Concen: 0.09 PPBv
RT: 7.840 min Scan# 211
Delta R.T. 0.028 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 84 Resp: 23610

Ion	Ratio	Lower	Upper
84	100		
49	140.8	0.0	0.0#
86	67.8	0.0	0.0#

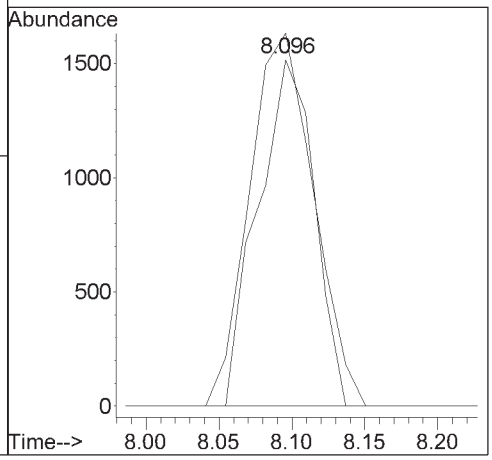


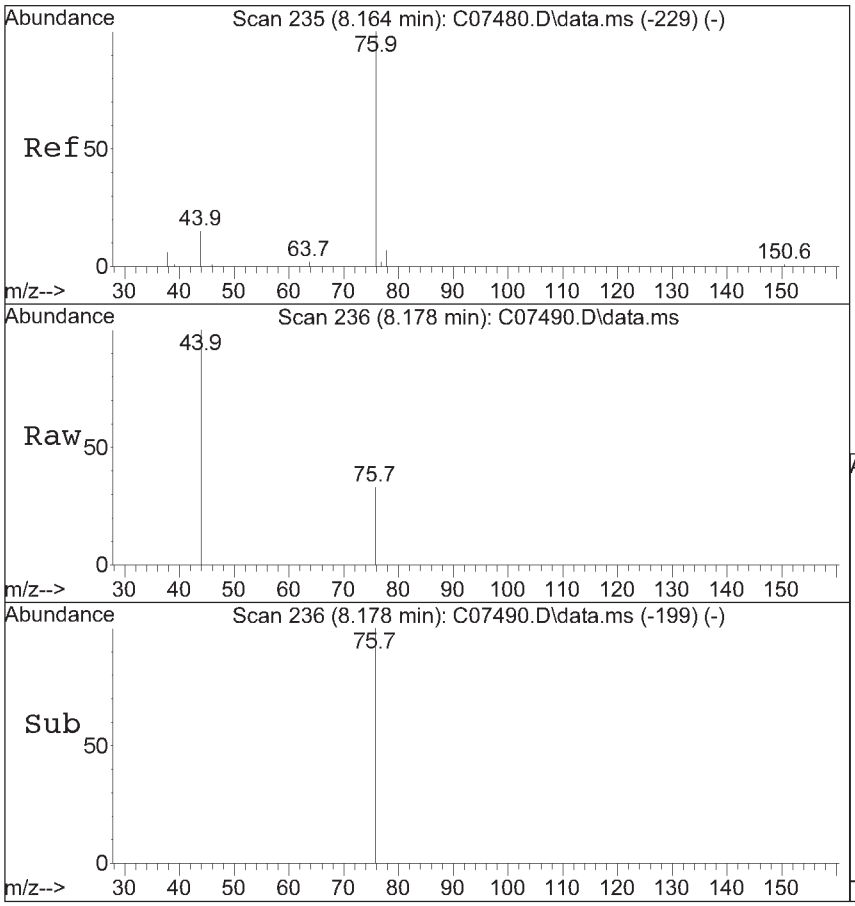


#18
FREON 113
Concen: 0.09 PPBv
RT: 8.097 min Scan# 230
Delta R.T. 0.009 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:101 Resp: 50169

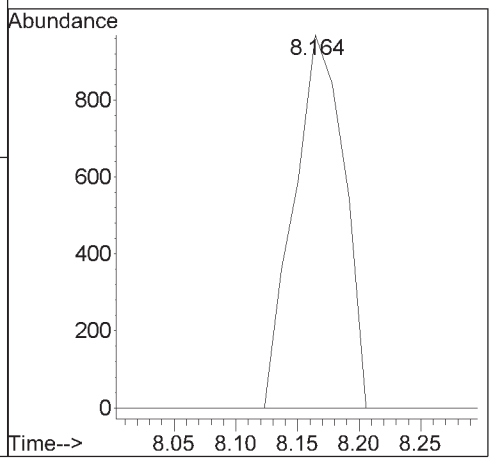
Ion	Ratio	Lower	Upper
101	100		
151	81.6	0.0	0.0#

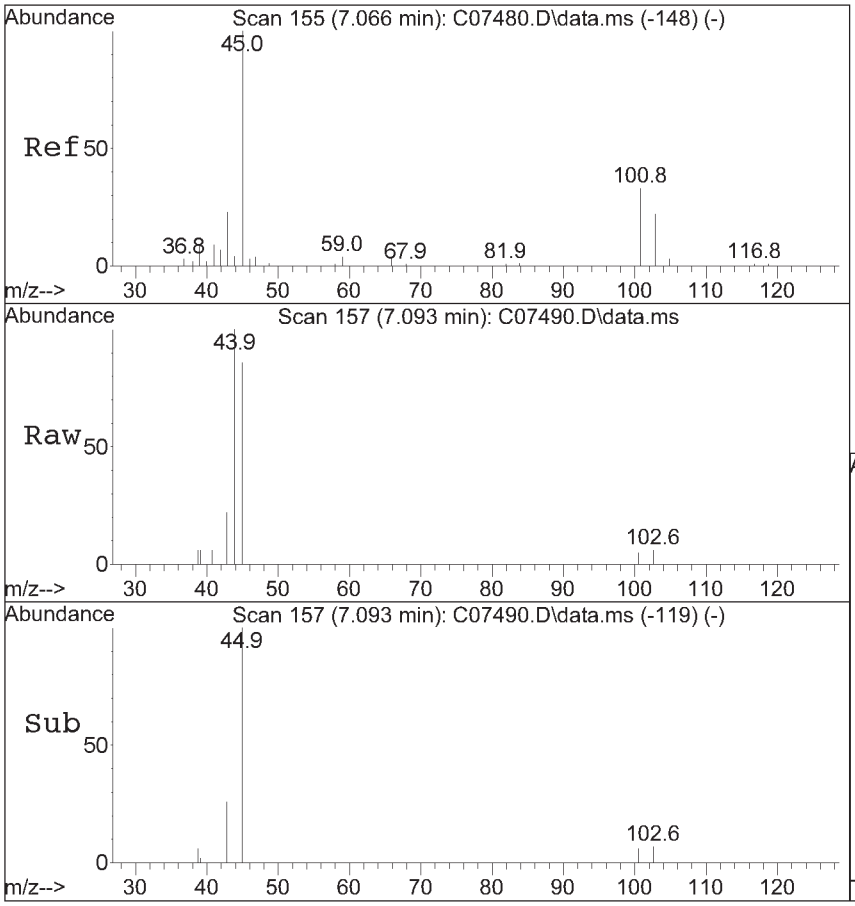




#19
CARBON DISULFIDE
Concen: 0.05 PPBv
RT: 8.174 min Scan# 236
Delta R.T. 0.008 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 76 Resp: 27273

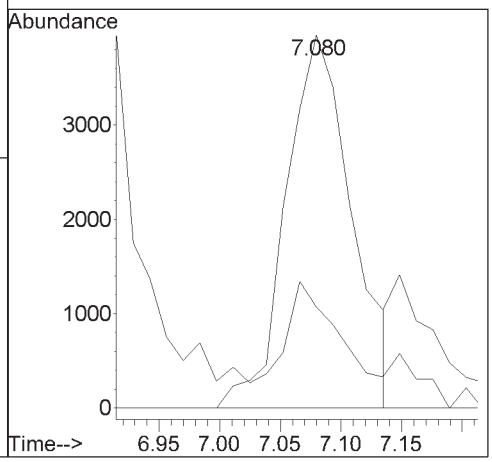


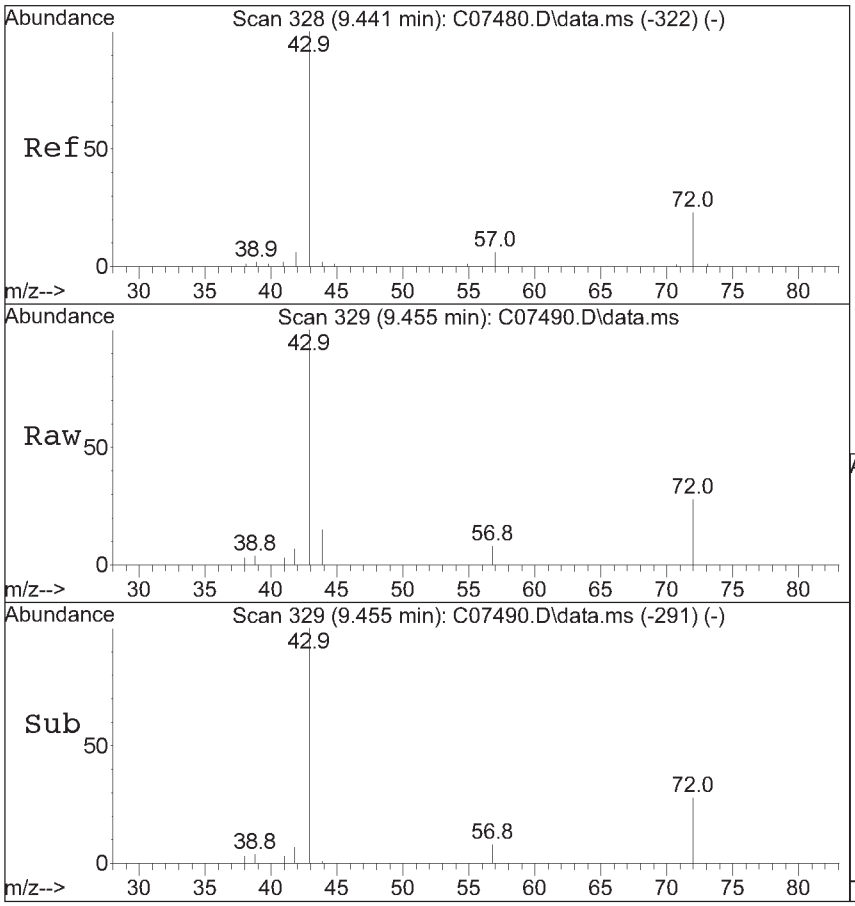


#24
IPA
Concen: 0.34 PPBv
RT: 7.087 min Scan# 157
Delta R.T. 0.021 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 45 Resp: 143438

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	0.0
59	0.0	0.0	0.0

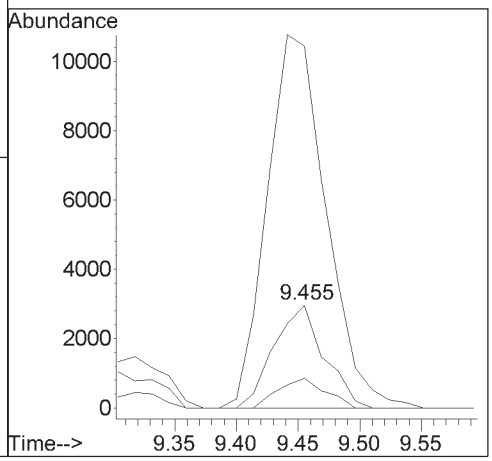


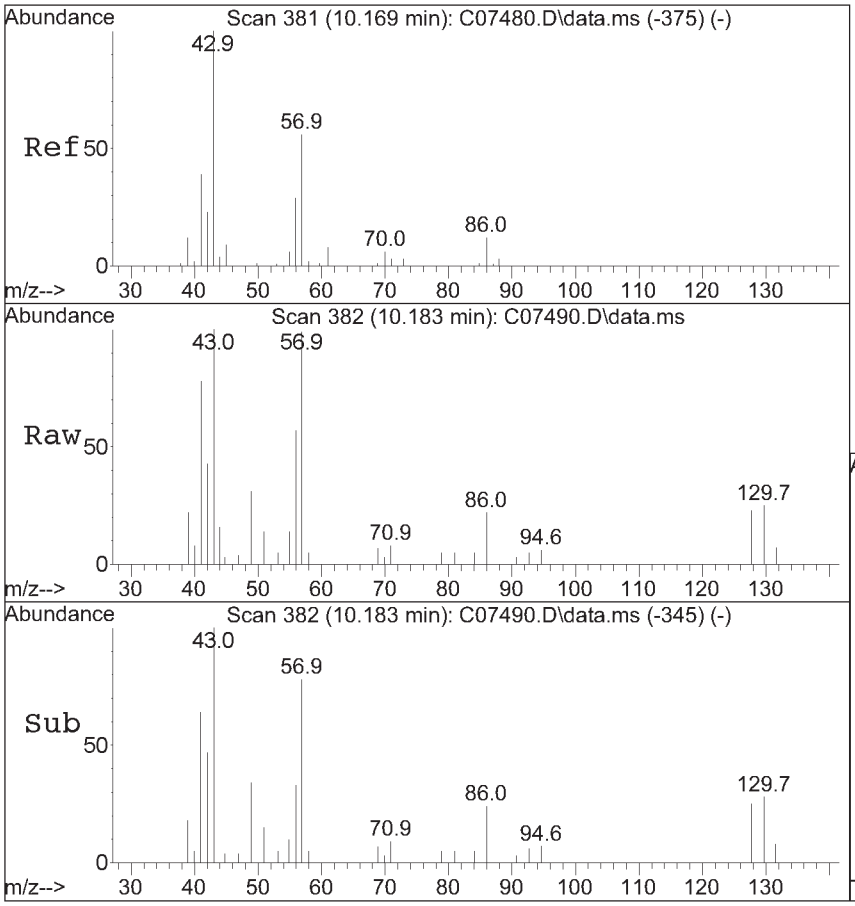


#25
2-BUTANONE (MEK)
Concen: 0.87 PPBv
RT: 9.456 min Scan# 329
Delta R.T. 0.016 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 72 Resp: 83714

Ion	Ratio	Lower	Upper
72	100		
57	0.0	0.0	0.0
43	427.3	0.0	0.0#

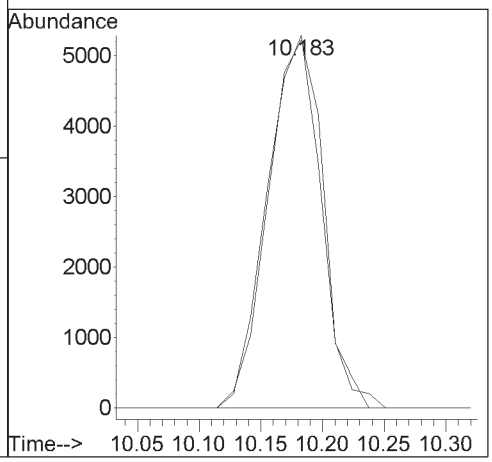


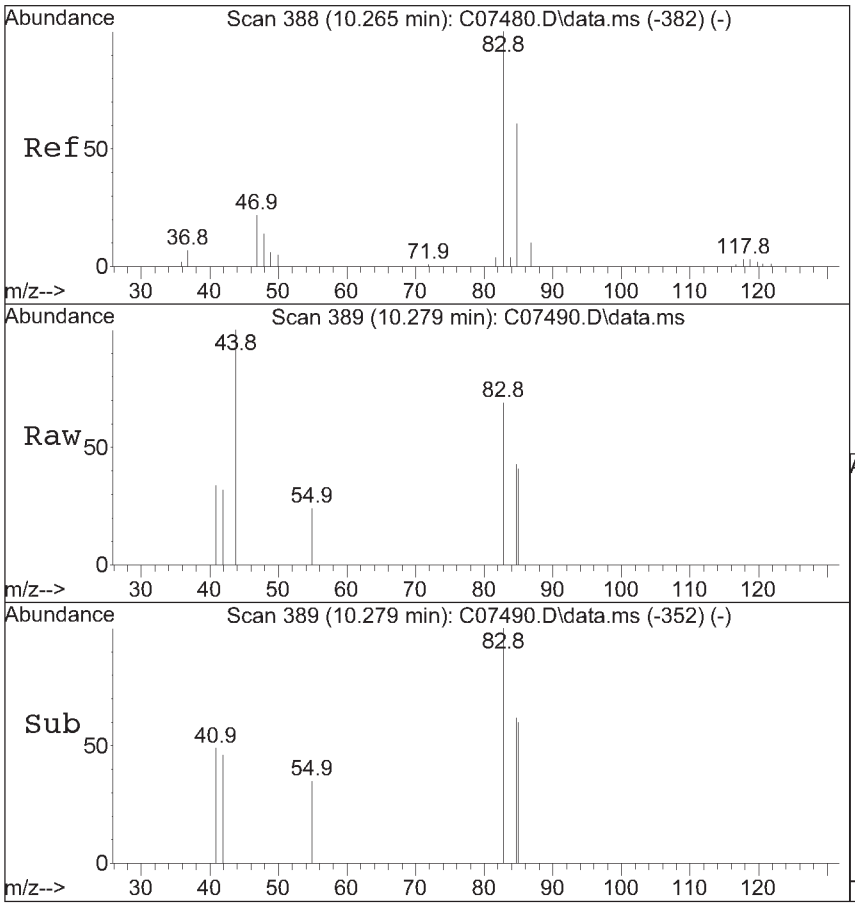


#27
HEXANE
Concen: 0.50 PPBv
RT: 10.185 min Scan# 382
Delta R.T. 0.011 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 57 Resp: 162514

Ion	Ratio	Lower	Upper
57	100		
43	98.6	0.0	0.0#

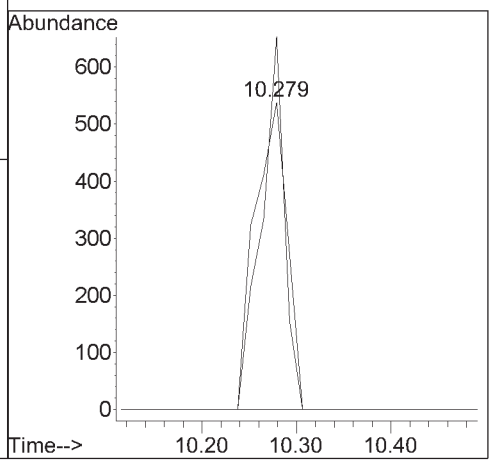


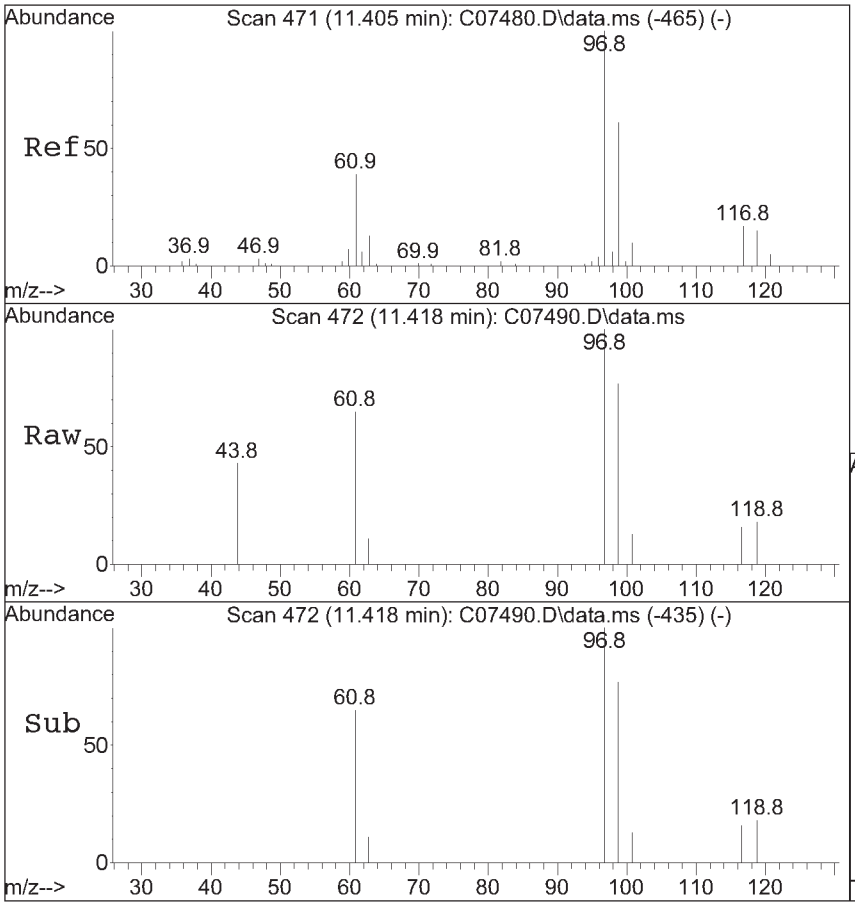


#29
CHLOROFORM
Concen: 0.03 PPBv m
RT: 10.279 min Scan# 389
Delta R.T. 0.009 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 83 Resp: 12719

Ion	Ratio	Lower	Upper
83	100		
85	0.0	0.0	0.0

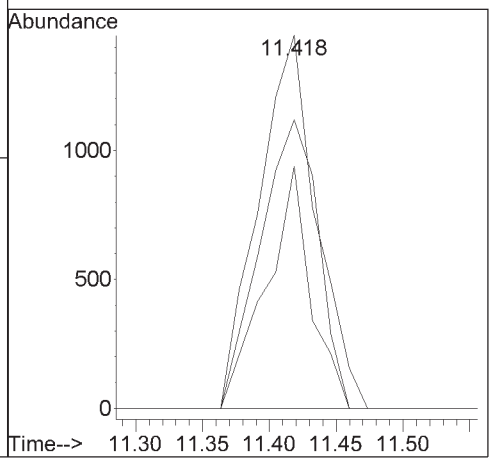


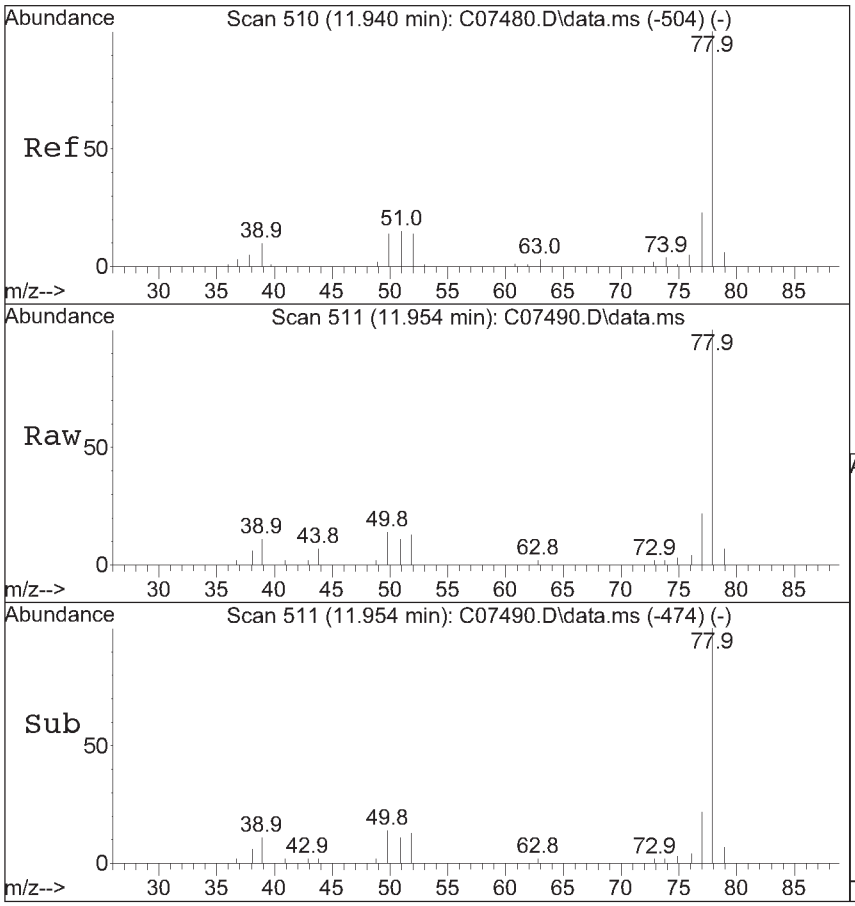


#32
1,1,1-TRICHLOROETHANE
Concen: 0.11 PPBv
RT: 11.420 min Scan# 472
Delta R.T. 0.010 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 97 Resp: 43555

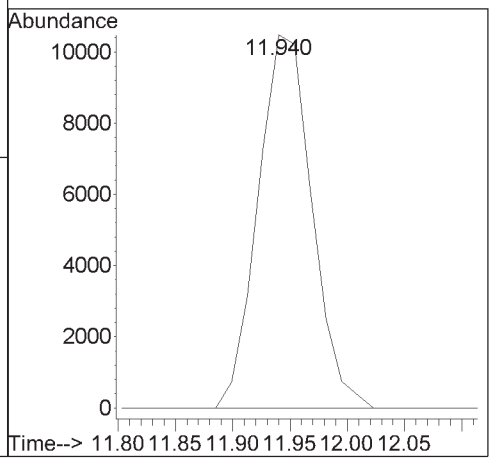
Ion	Ratio	Lower	Upper
97	100		
99	77.8	0.0	0.0#
61	49.9	0.0	0.0#

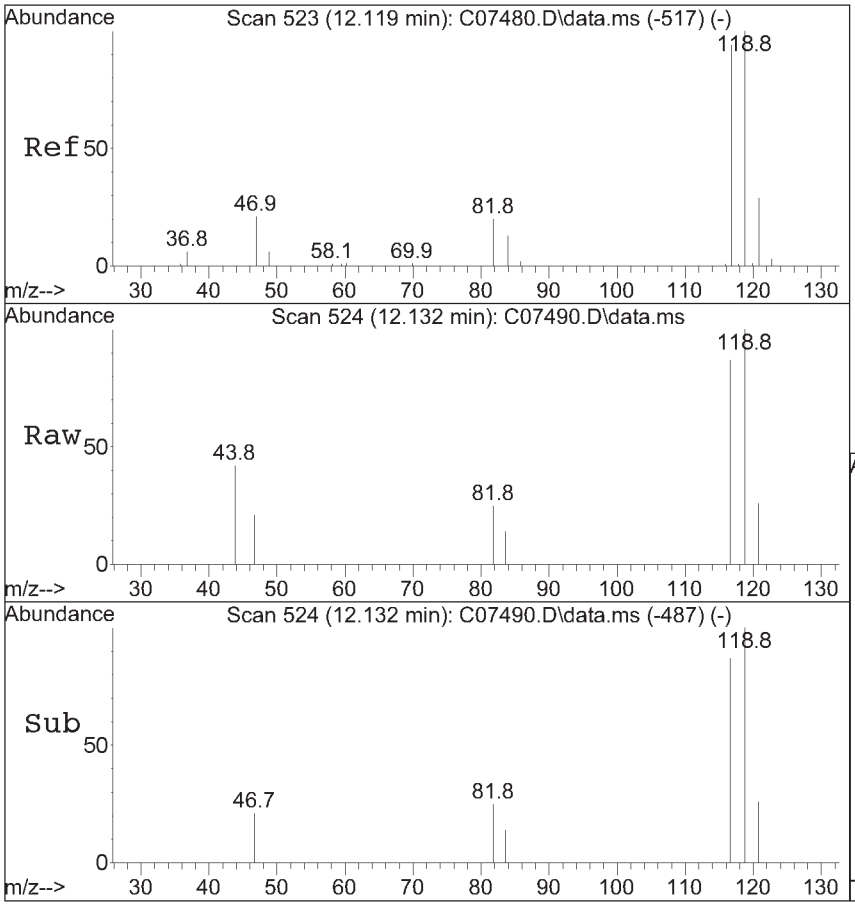




#33
BENZENE
Concen: 0.51 PPBv
RT: 11.951 min Scan# 511
Delta R.T. 0.005 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 78 Resp: 342454

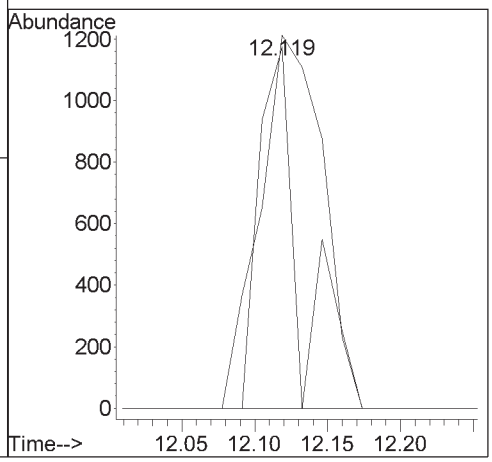


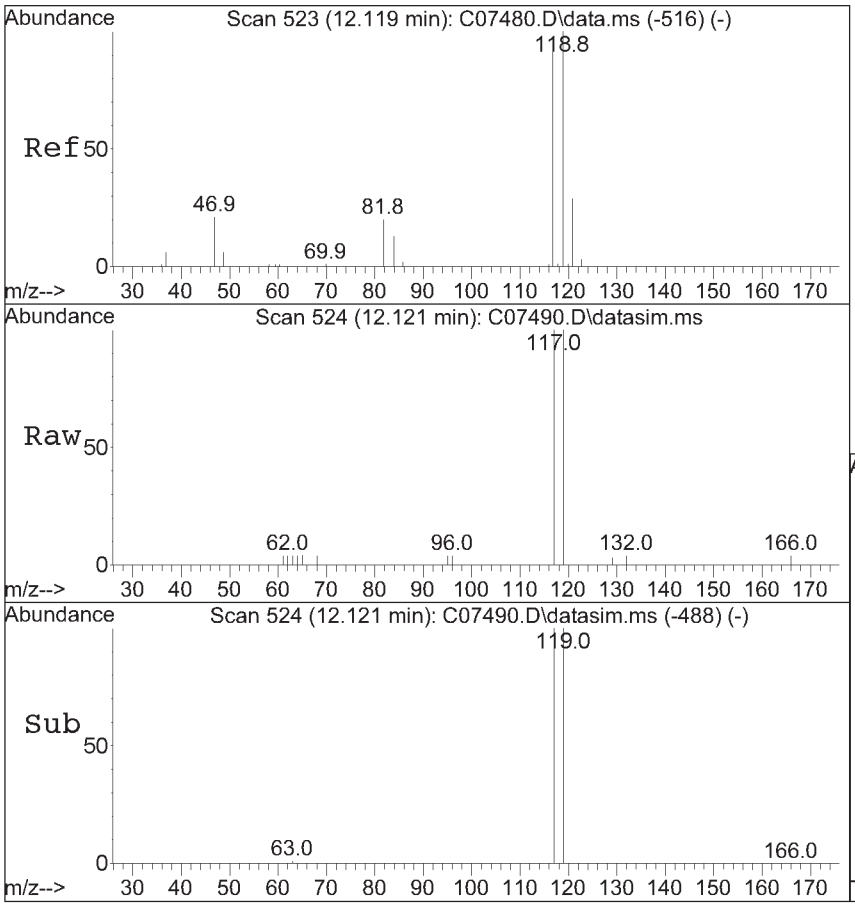


#34
CARBON TETRACHLORIDE
Concen: 0.08 PPBv
RT: 12.130 min Scan# 524
Delta R.T. 0.008 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:119 Resp: 36622

Ion	Ratio	Lower	Upper
119	100		
117	65.5	0.0	0.0#

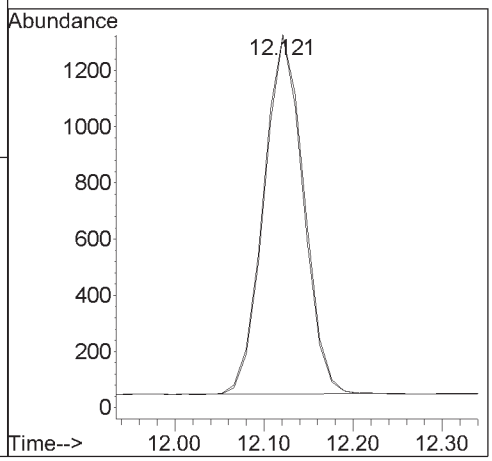


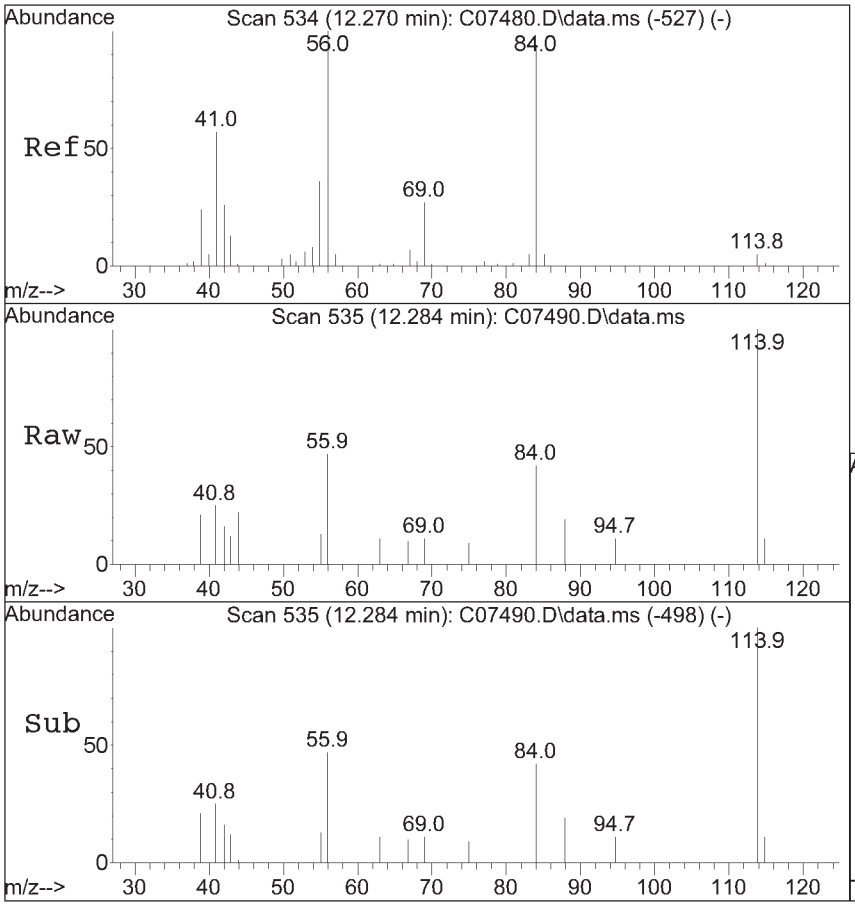


#35
CARBON TETRACHLORIDE (SIM)
Concen: 0.06 PPBv
RT: 12.128 min Scan# 524
Delta R.T. 0.006 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:119 Resp: 39537

Ion	Ratio	Lower	Upper
119	100		
117	99.7	0.0	0.0#

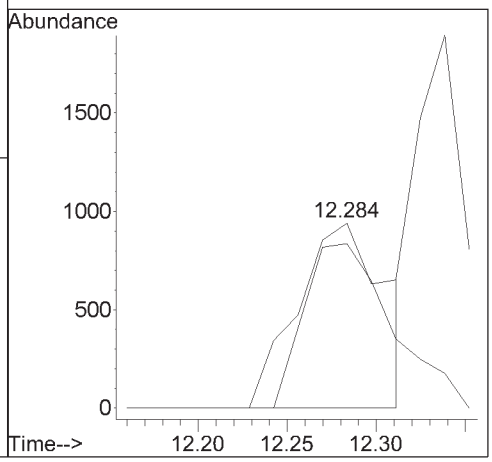


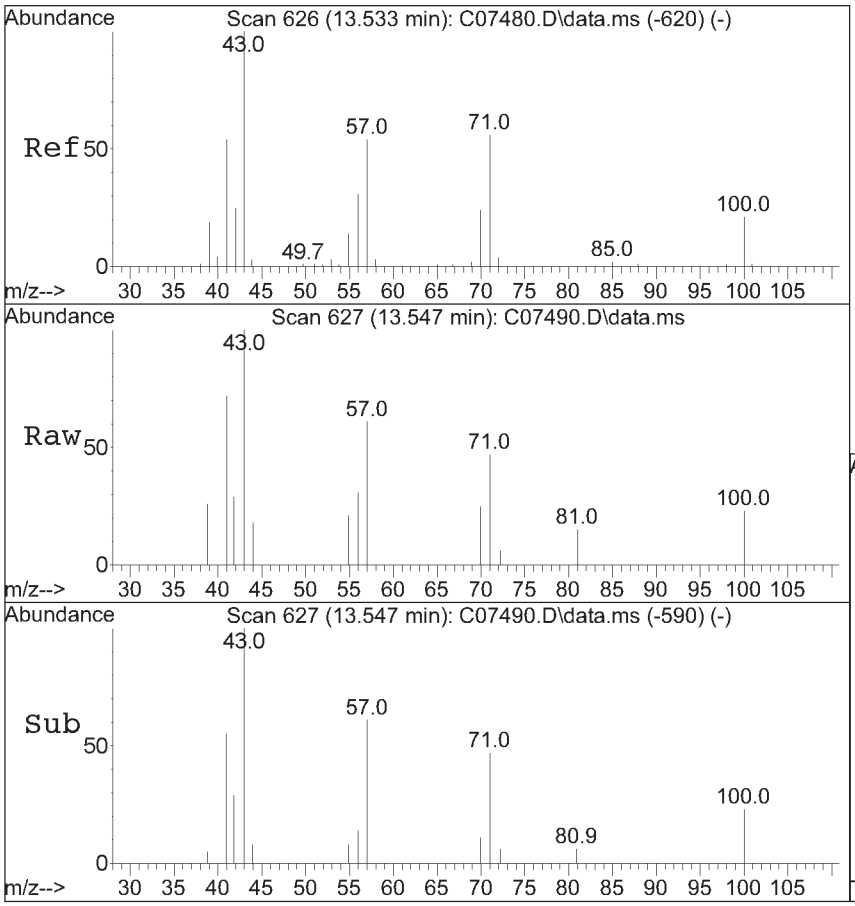


#36
CYCLOHEXANE
Concen: 0.08 PPBv m
RT: 12.284 min Scan# 535
Delta R.T. 0.014 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 56 Resp: 25888

Ion	Ratio	Lower	Upper
56	100		
84	0.0	0.0	0.0

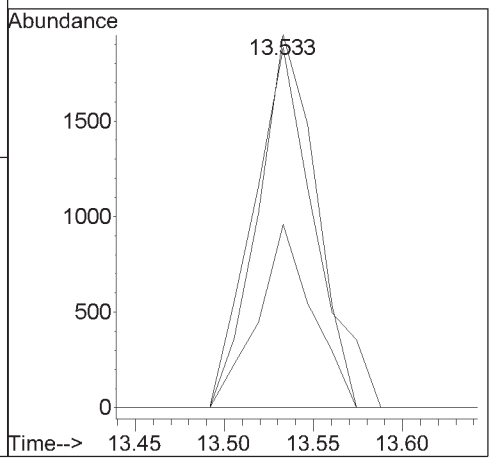


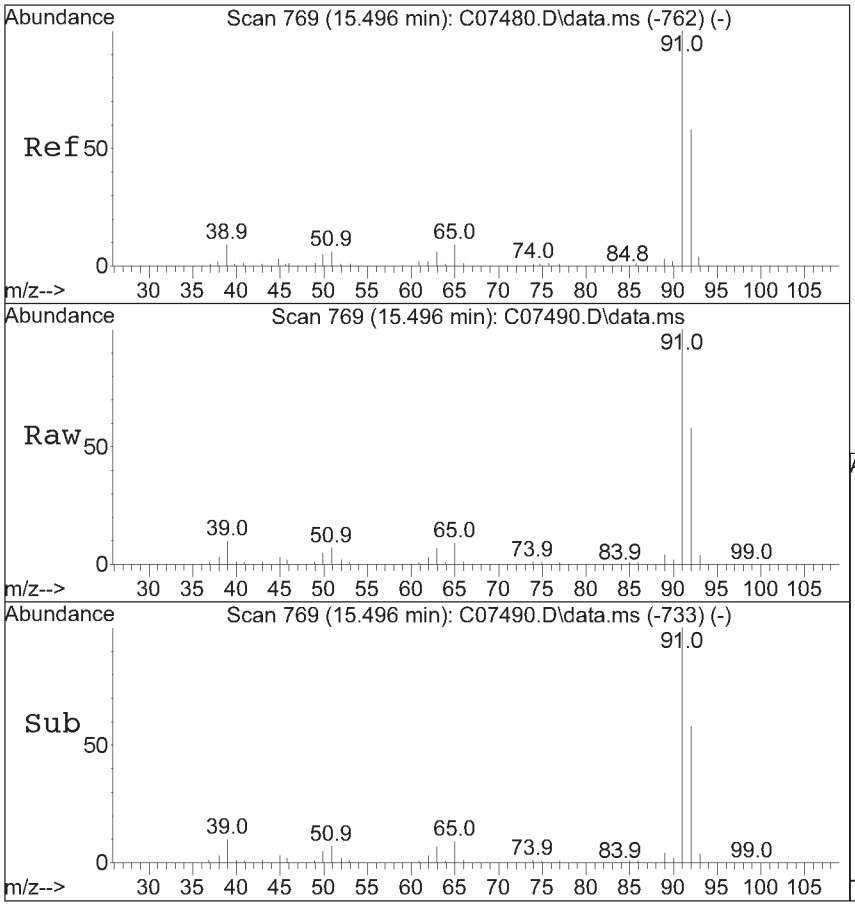


#43
HEPTANE
Concen: 0.20 PPBv
RT: 13.541 min Scan# 627
Delta R.T. 0.006 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 57 Resp: 44113

Ion	Ratio	Lower	Upper
57	100		
71	104.7	0.0	0.0#
100	46.2	0.0	0.0#

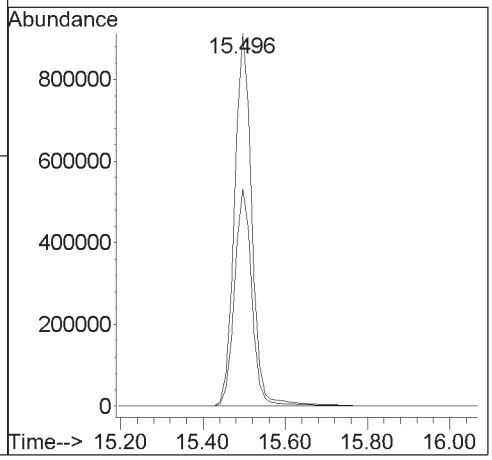


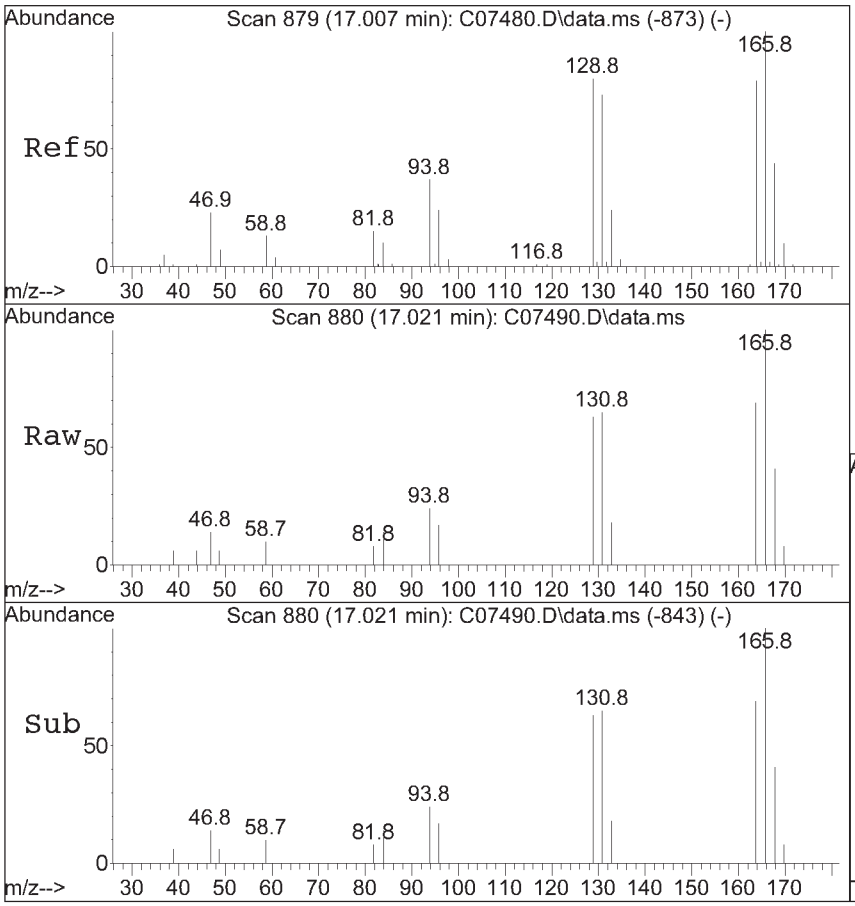


#48
TOLUENE
Concen: 31.67 PPBv
RT: 15.502 min Scan# 769
Delta R.T. 0.006 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 91 Resp:26815256

Ion	Ratio	Lower	Upper
91	100		
92	58.2	0.0	0.0#

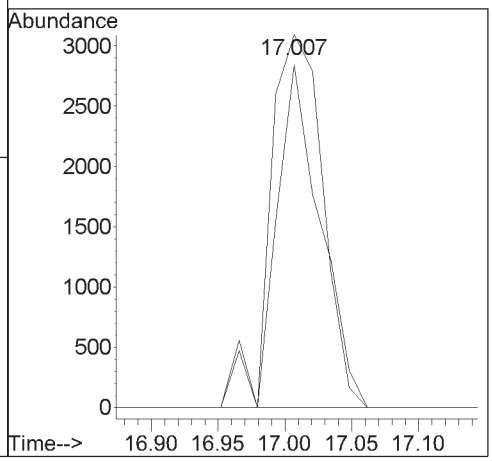


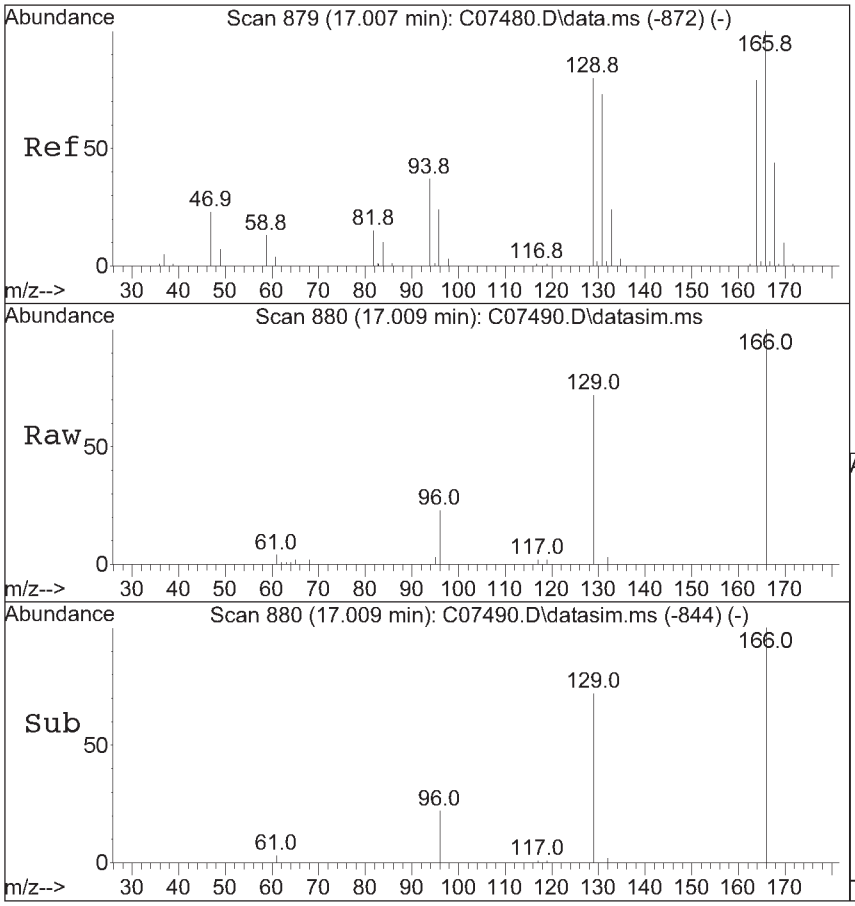


#52
TETRACHLOROETHENE
Concen: 0.19 PPBv
RT: 17.014 min Scan# 880
Delta R.T. 0.006 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:166 Resp: 84459

Ion	Ratio	Lower	Upper
166	100		
129	80.5	0.0	0.0#
138	0.0	0.0	0.0

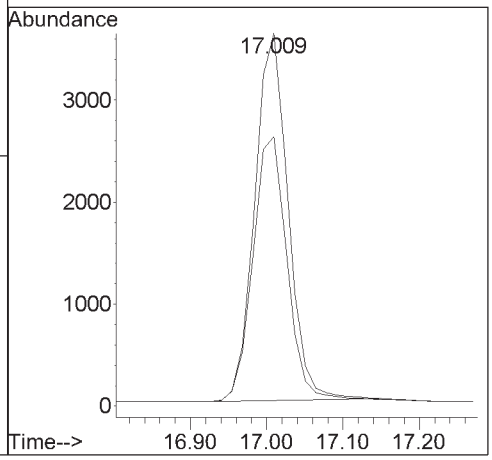


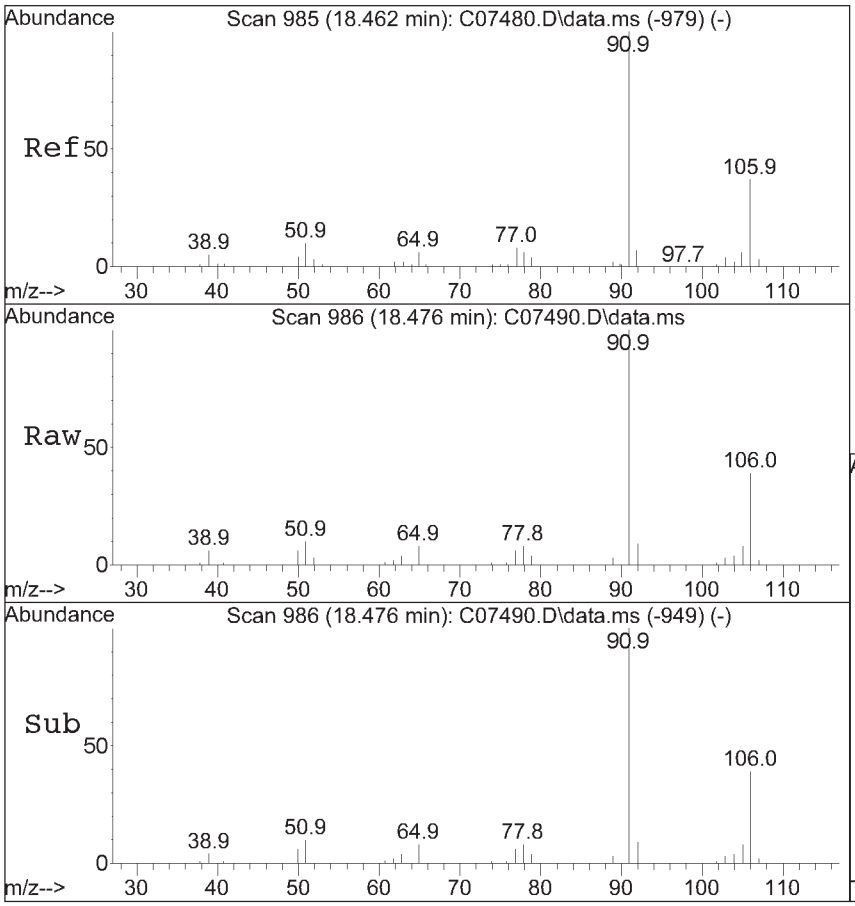


#53
TETRACHLOROETHENE (SIM)
Concen: 0.22 PPBv
RT: 17.011 min Scan# 880
Delta R.T. 0.002 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:166 Resp: 109039

Ion	Ratio	Lower	Upper
166	100		
129	73.5	0.0	0.0#

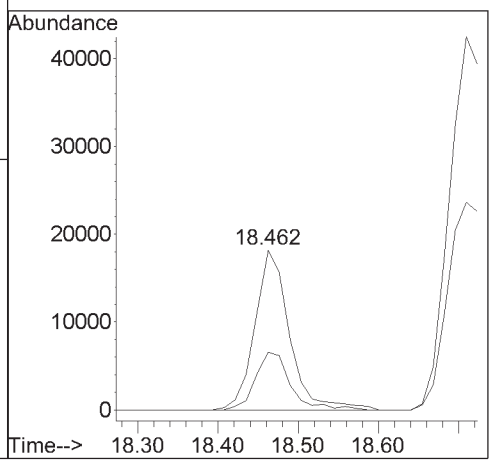


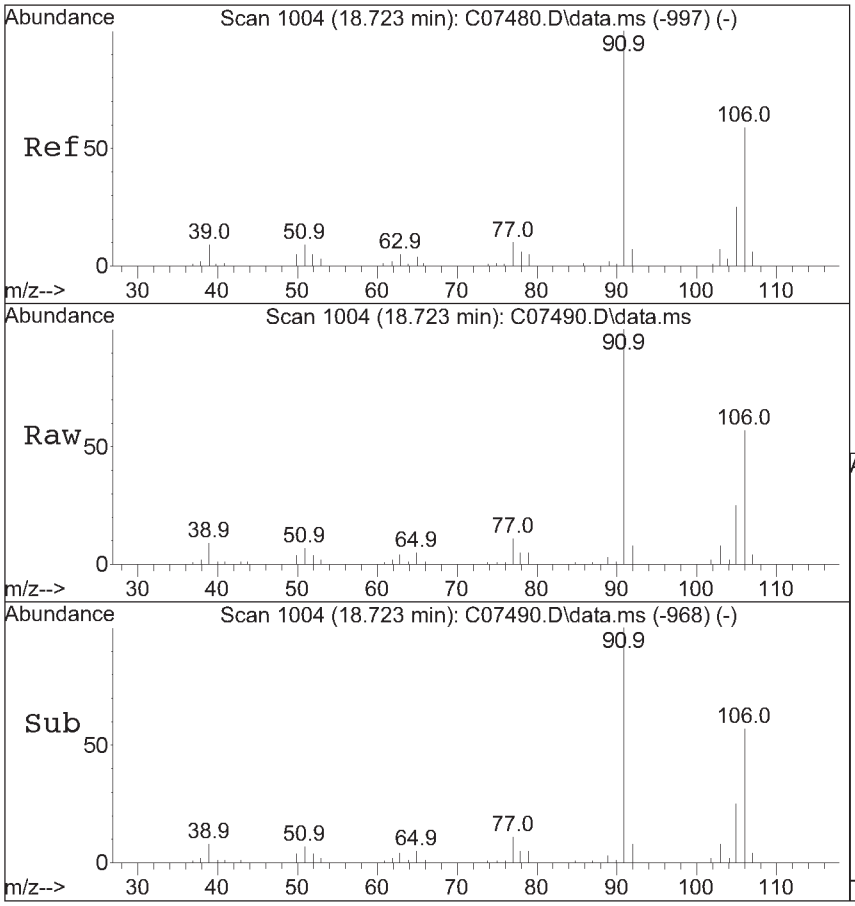


#57
ETHYLBENZENE
Concen: 0.49 PPBv
RT: 18.471 min Scan# 986
Delta R.T. 0.002 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 91 Resp: 544352

Ion	Ratio	Lower	Upper
91	100		
106	36.4	0.0	0.0#

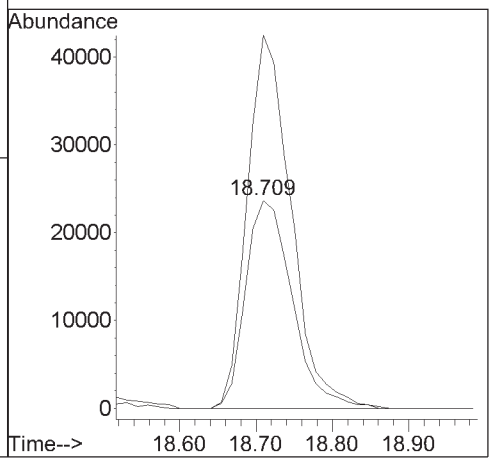


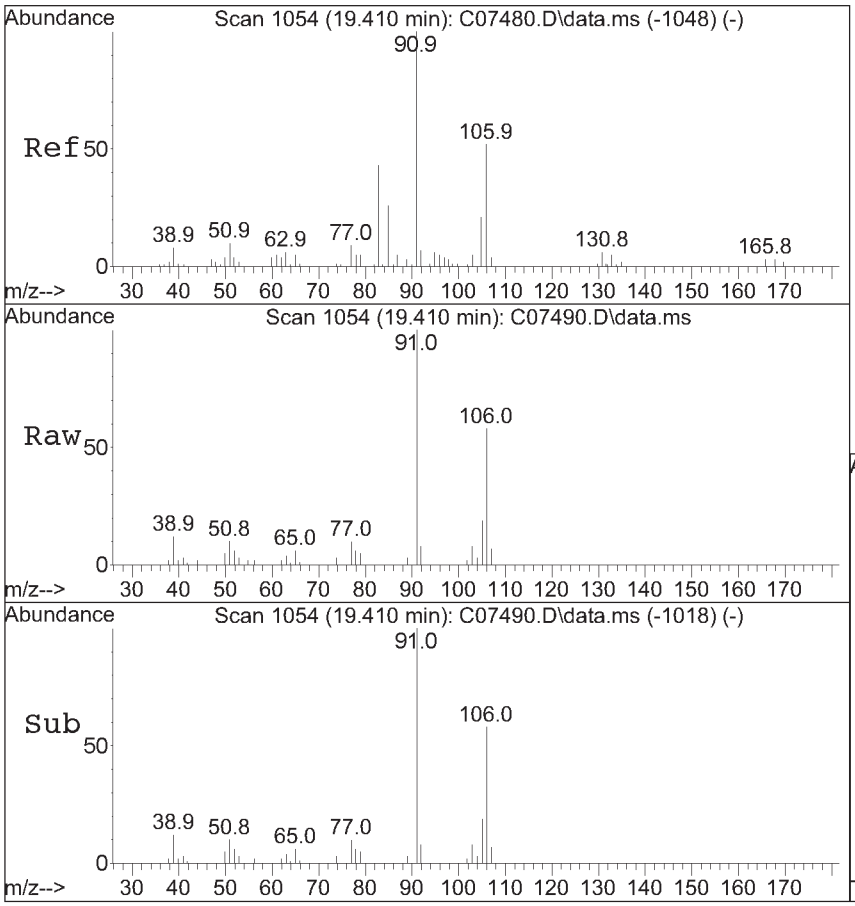


#58
M/P-XYLENE
Concen: 1.86 PPBv
RT: 18.718 min Scan# 1004
Delta R.T. -0.008 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:106 Resp: 1006154

Ion	Ratio	Lower	Upper
106	100		
91	168.6	0.0	0.0#

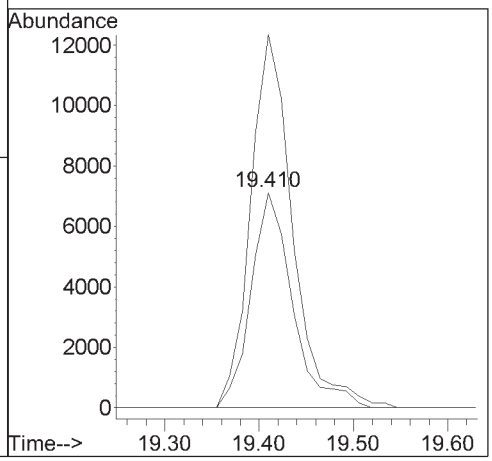


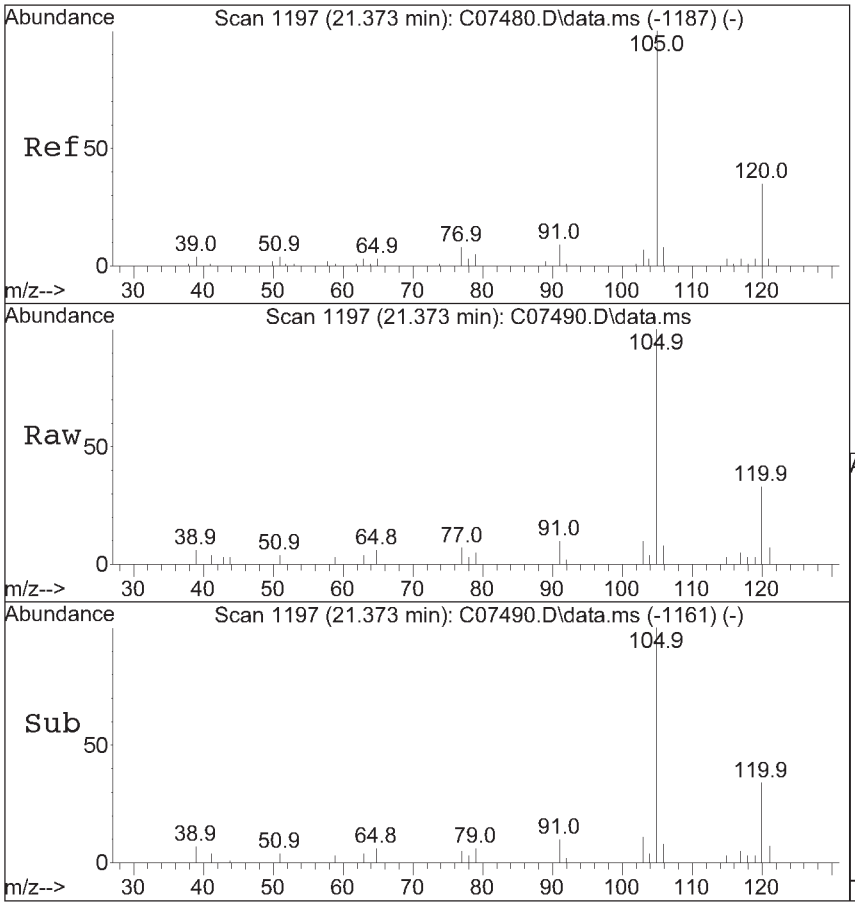


#61
O-XYLENE
Concen: 0.43 PPBv
RT: 19.416 min Scan# 1054
Delta R.T. -0.001 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:106 Resp: 219450

Ion	Ratio	Lower	Upper
106	100		
91	174.6	0.0	0.0#

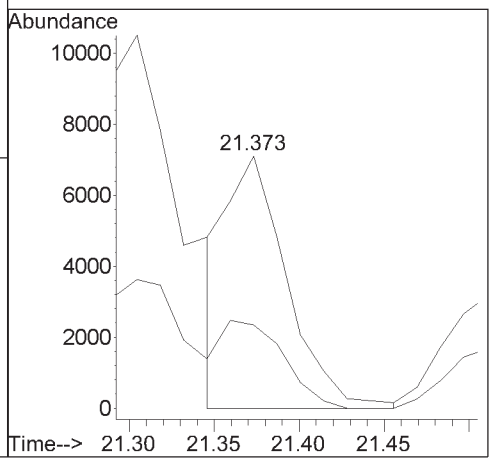


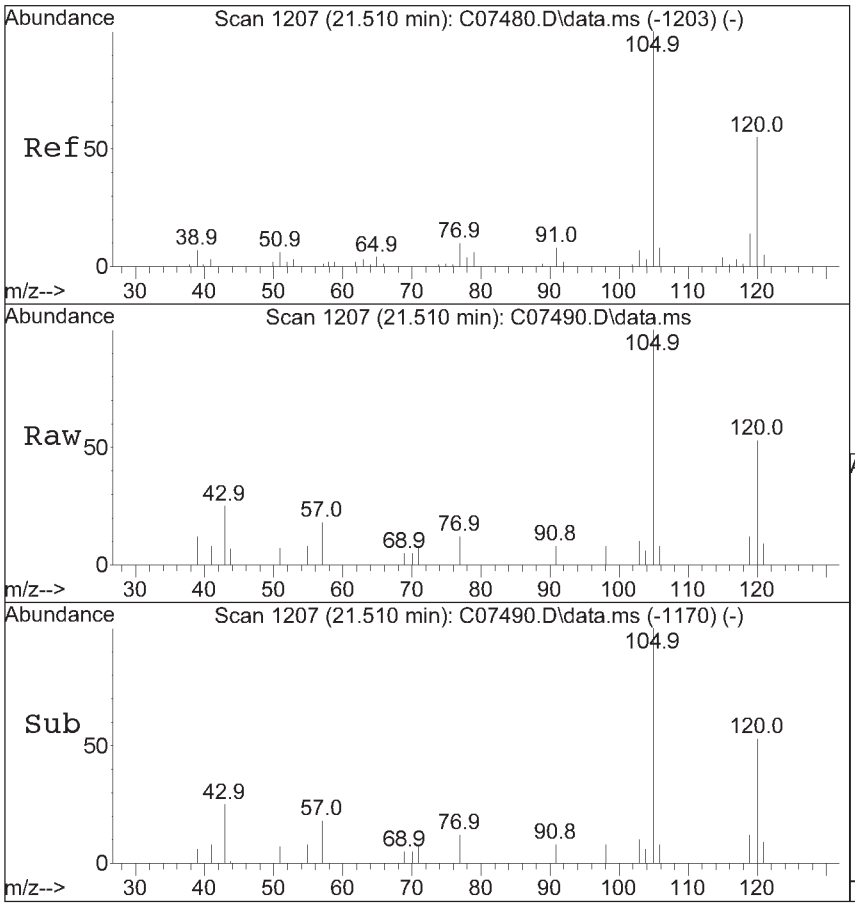


#65
4-ETHYLTOLUENE
Concen: 0.17 PPBv
RT: 21.375 min Scan# 1197
Delta R.T. -0.002 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:105 Resp: 212190

Ion	Ratio	Lower	Upper
105	100		
120	0.0	0.0	0.0

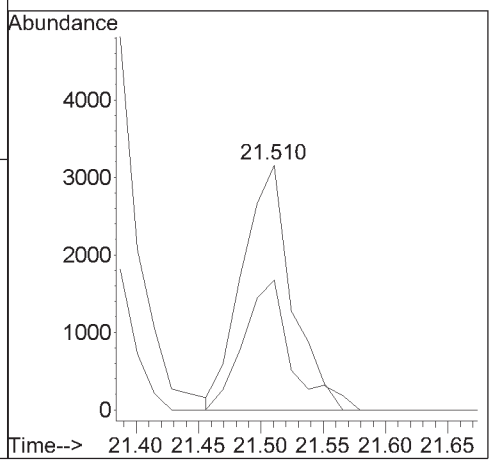


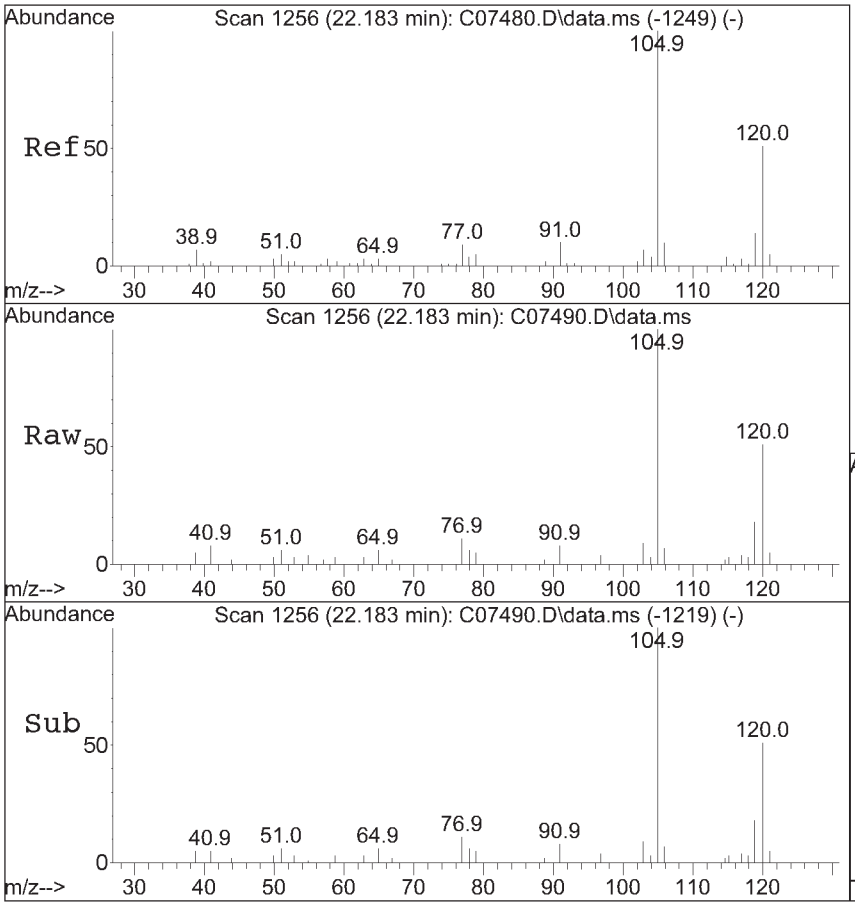


#66
1,3,5-TRIMETHYLBENZENE
Concen: 0.08 PPBv m
RT: 21.510 min Scan# 1207
Delta R.T. 0.003 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:105 Resp: 87539

Ion	Ratio	Lower	Upper
105	100		
120	0.0	0.0	0.0

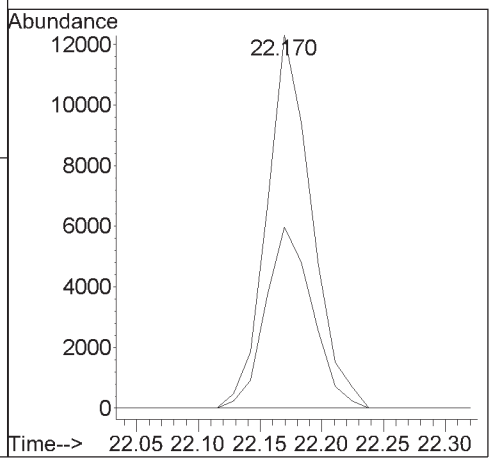


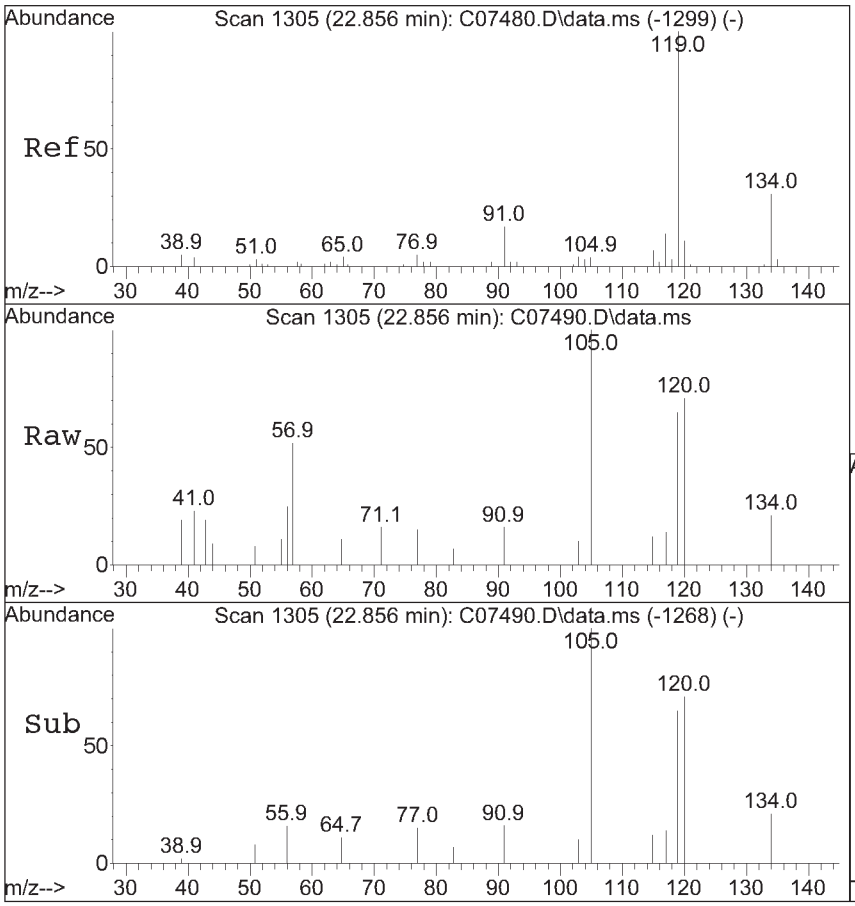


#67
1,2,4-TRIMETHYLBENZENE
Concen: 0.32 PPBv
RT: 22.177 min Scan# 1256
Delta R.T. -0.002 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:105 Resp: 310472

Ion	Ratio	Lower	Upper
105	100		
120	50.9	0.0	0.0#

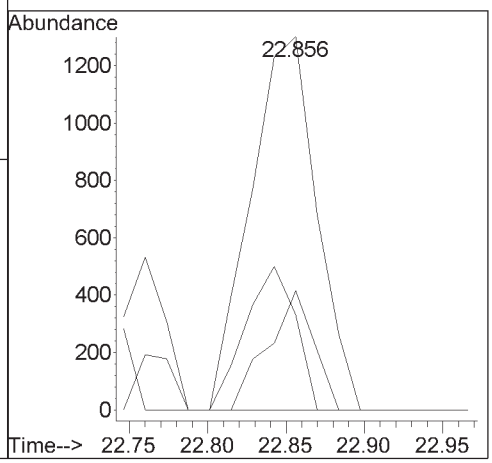


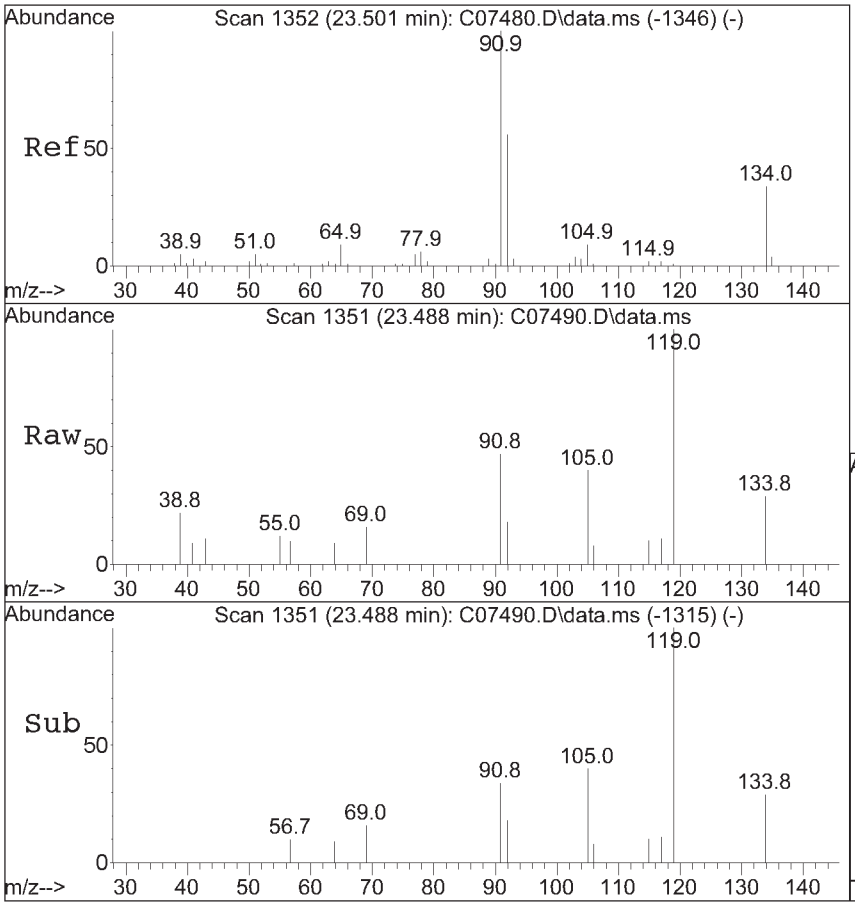


#72
4-ISOPROPYLTOLUENE
Concen: 0.03 PPBv
RT: 22.855 min Scan# 1305
Delta R.T. 0.001 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion:119 Resp: 38219

Ion	Ratio	Lower	Upper
119	100		
134	22.2	0.0	0.0#
91	0.0	0.0	0.0

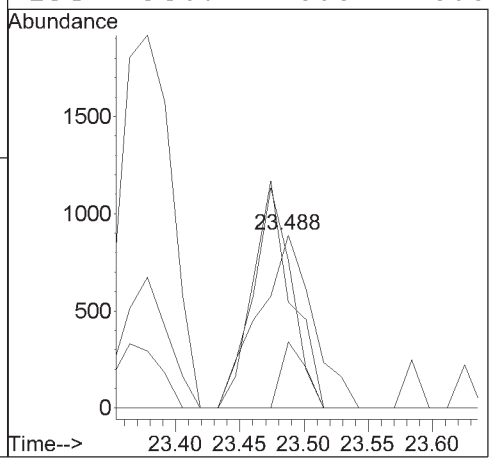




#74
N-BUTYLBENZENE
Concen: 0.02 PPBv
RT: 23.493 min Scan# 1351
Delta R.T. -0.006 min
Lab File: C07490.D
Acq: 10 Mar 2011 7:39 pm

Tgt Ion: 91 Resp: 26109

Ion	Ratio	Lower	Upper
91	100		
92	0.0	0.0	0.0
105	91.6	0.0	0.0#
134	93.7	0.0	0.0#



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-Dup-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-10	File ID:	A39613.D
Sampled:	03/03/11 12:00			Analyzed:	03/08/11 20:57
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104127	Sequence:	S101712	Calibration:	1103003
Instrument:	Air1				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
64-17-5	Ethanol	7.58	14.29	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\030811\A39613.D Vial: 13
Acq On : 8 Mar 2011 8:57 pm Operator: KG
Sample : sb25245-10 @ b1-dup 1x to-15 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 11 17:17 2011 Quant Results File: T1022411.RES

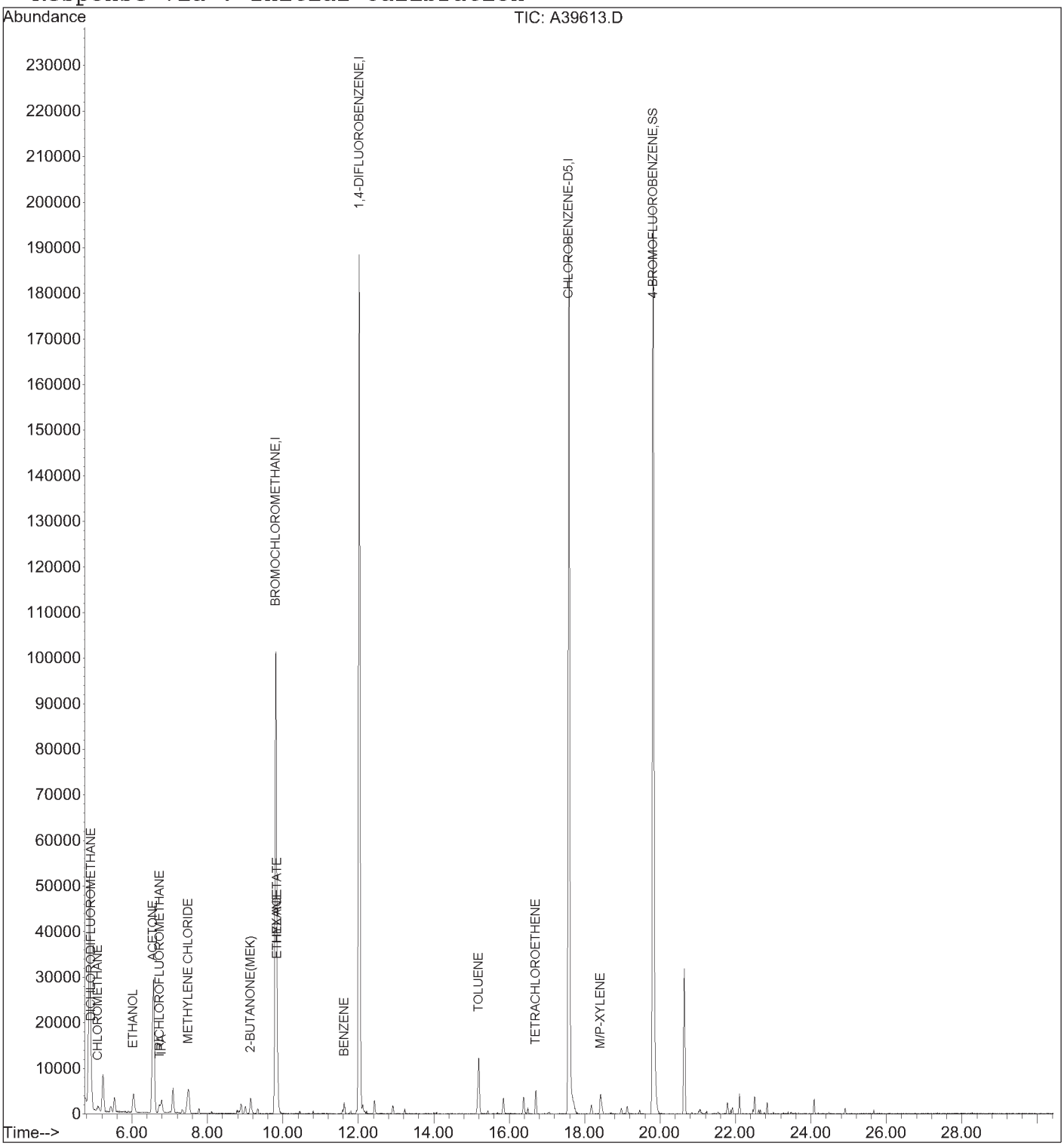
Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

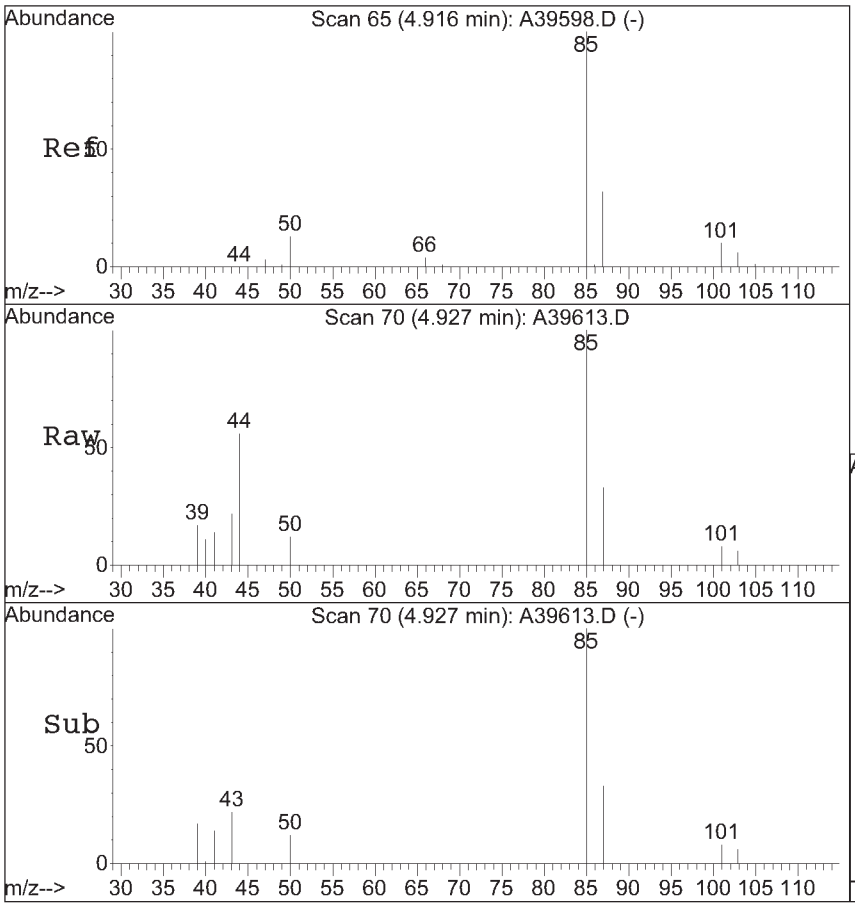
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.81	128	446512	10.00	PPBv	0.00
33) 1,4-DIFLUOROBENZENE	12.02	114	2208017	10.00	PPBv	-0.01
48) CHLOROBENZENE-D5	17.58	82	1040705	10.00	PPBv	-0.02
System Monitoring Compounds						
57) 4-BROMOFLUOROBENZENE	19.81	95	1210034	10.42	PPBv	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.20%			
Target Compounds						Qvalue
3) DICHLORODIFLUOROMETHANE	4.93	85	77828	0.66	PPBv #	49
4) CHLOROMETHANE	5.10	50	21747m	0.53	PPBv	
10) ACETONE	6.54	58	91472	6.56	PPBv #	64
11) TRICHLOROFLUOROMETHANE	6.73	101	29717	0.32	PPBv #	18
12) ETHANOL	6.04	45	79227	7.58	PPBv #	43
15) METHYLENE CHLORIDE	7.50	84	37328	1.29	PPBv #	67
21) IPA	6.78	45	54894	1.32	PPBv #	61
22) 2-BUTANONE(MEK)	9.14	72	16216m	0.73	PPBv	
24) HEXANE	9.86	57	18127m	0.26	PPBv	
25) ETHYL ACETATE	9.86	61	8831m	1.06	PPBv	
30) BENZENE	11.62	78	35234	0.26	PPBv	100
43) TOLUENE	15.19	91	142111	0.90	PPBv	97
47) TETRACHLOROETHENE	16.70	166	25049m	0.33	PPBv	
52) M/P-XYLENE	18.43	106	34103	0.48	PPBv	92

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\030811\A39613.D Vial: 13
Acq On : 8 Mar 2011 8:57 pm Operator: KG
Sample : sb25245-10 @ b1-dup 1x to-15 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 11 17:17 2011 Quant Results File: T1022411.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration

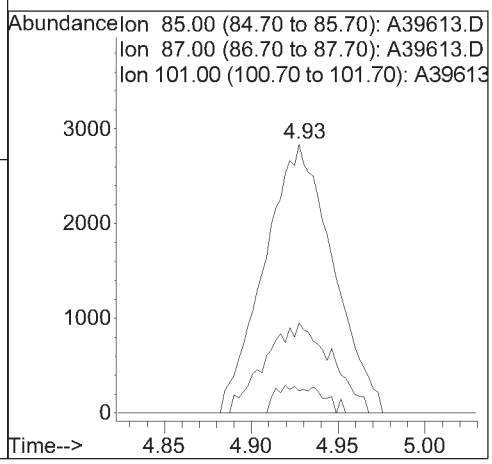


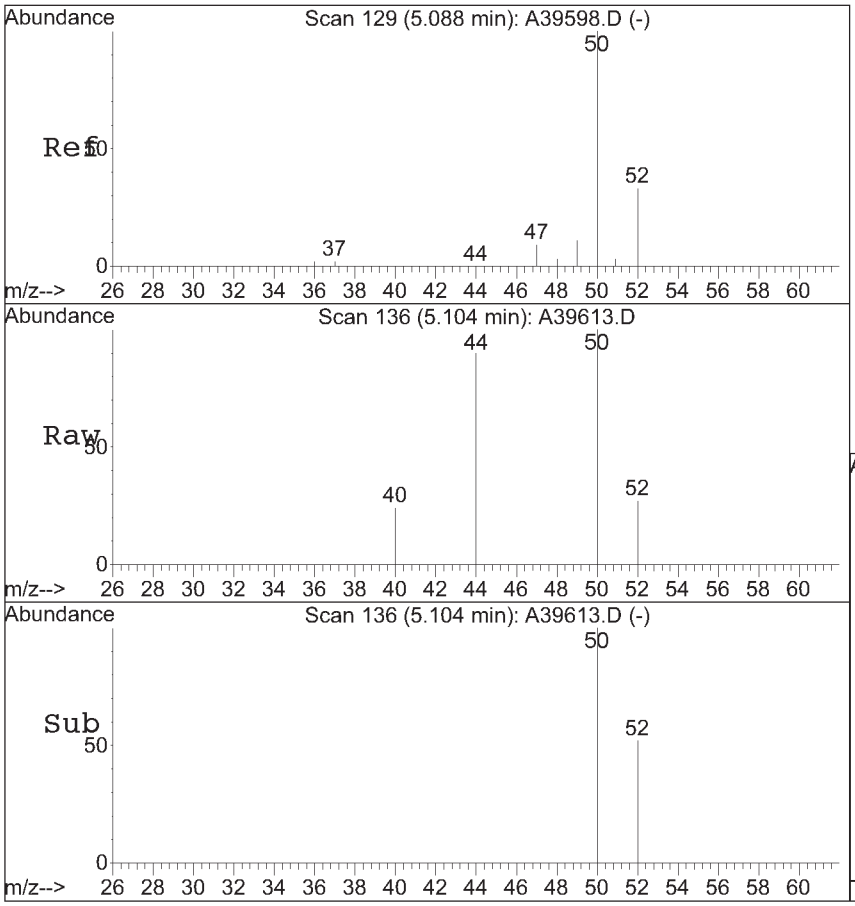


#3
DICHLORODIFLUOROMETHANE
Concen: 0.66 PPBv
RT: 4.93 min Scan# 70
Delta R.T. 0.02 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion: 85 Resp: 77828

Ion	Ratio	Lower	Upper
85	100		
87	0.0	26.1	39.1#
101	0.0	7.4	11.0#

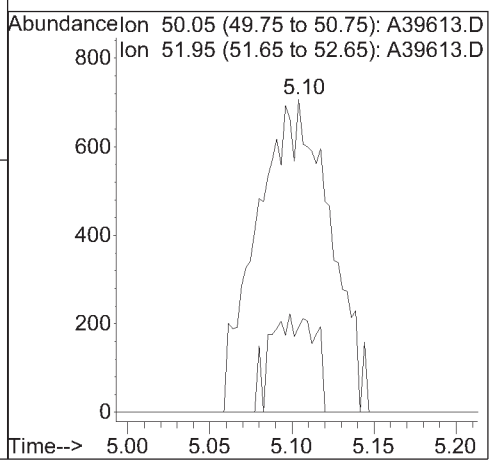


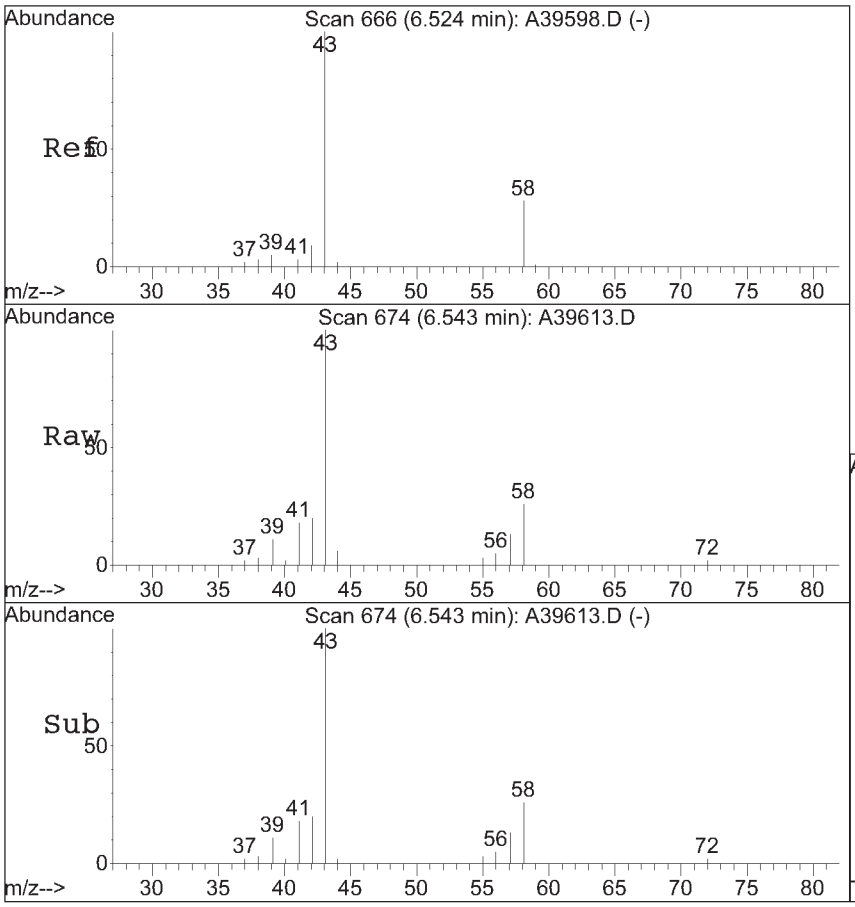


#4
CHLOROMETHANE
Concen: 0.53 PPBv m
RT: 5.10 min Scan# 136
Delta R.T. 0.02 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion: 50 Resp: 21747

Ion	Ratio	Lower	Upper
50	100		
52	0.0	25.3	37.9#

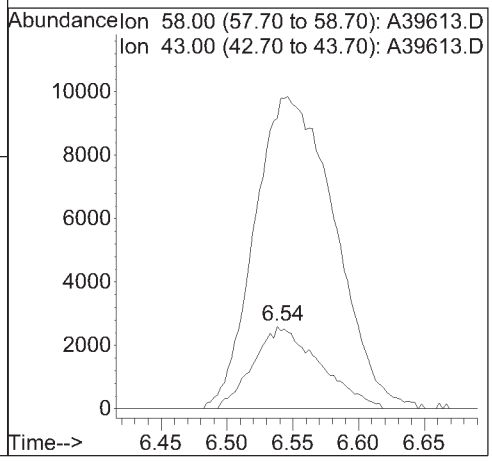


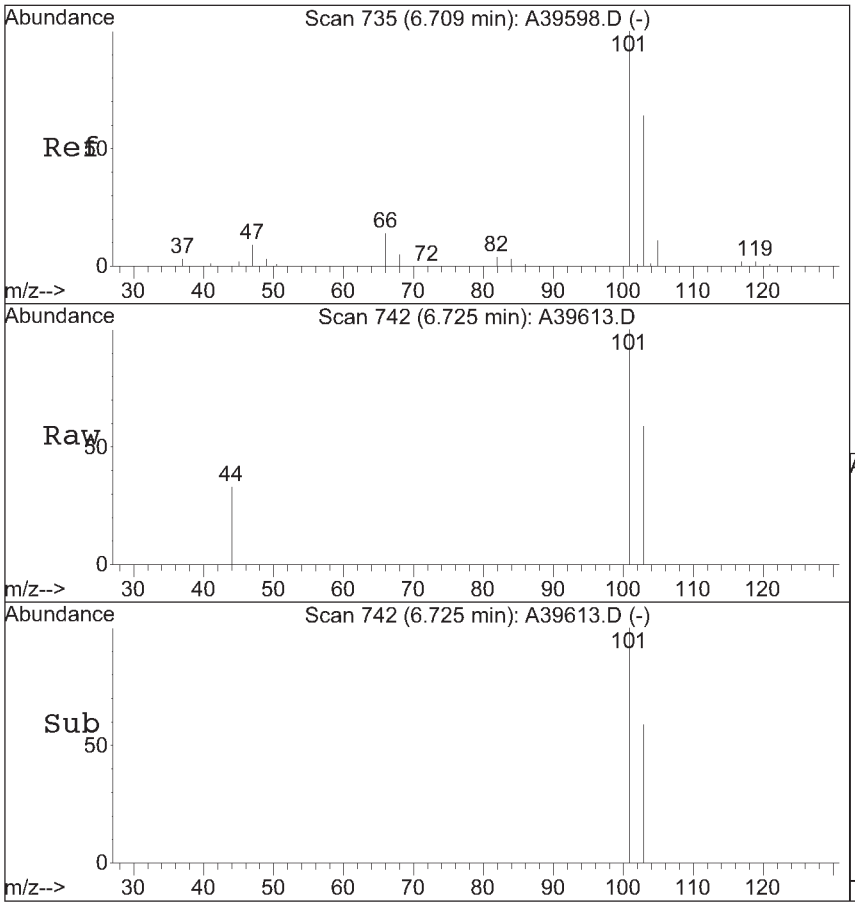


#10
ACETONE
Concen: 6.56 PPBv
RT: 6.54 min Scan# 674
Delta R.T. 0.01 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion: 58 Resp: 91472

Ion	Ratio	Lower	Upper
58	100		
43	457.3	300.2	450.4#

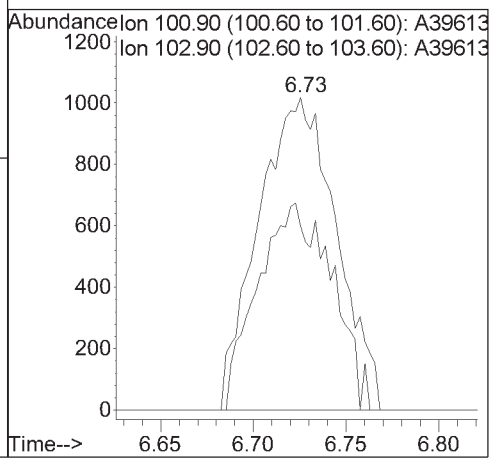


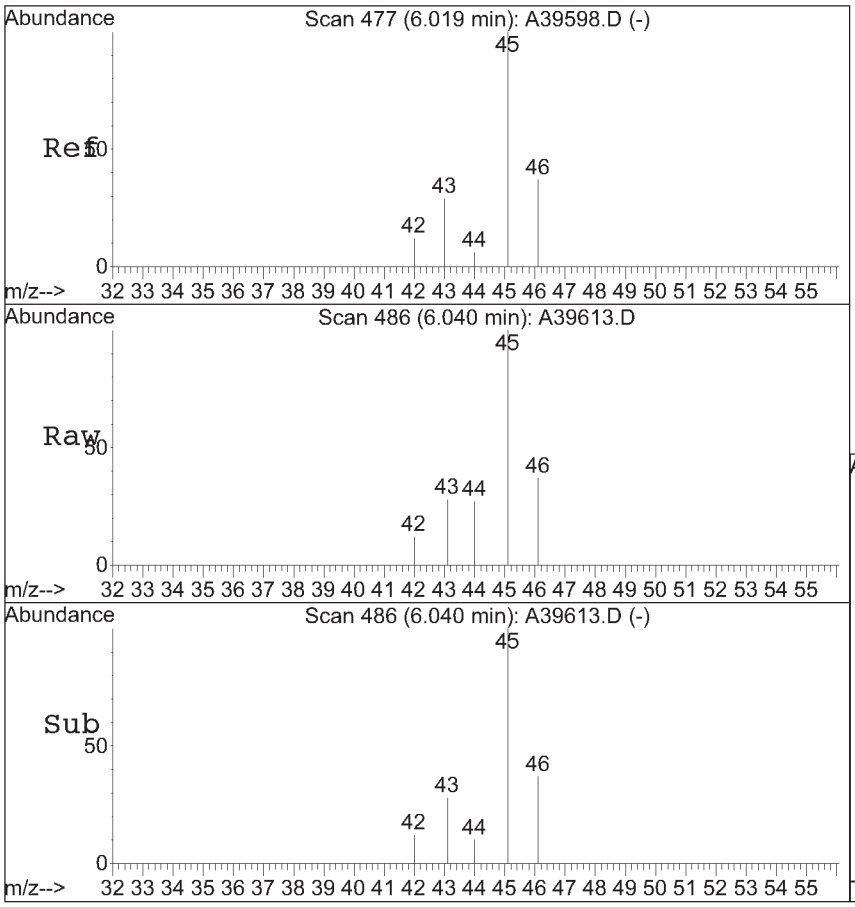


#11
TRICHLOROFLUOROMETHANE
Concen: 0.32 PPBv
RT: 6.73 min Scan# 742
Delta R.T. 0.01 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion:101 Resp: 29717

Ion	Ratio	Lower	Upper
101	100		
103	0.0	51.8	77.6#

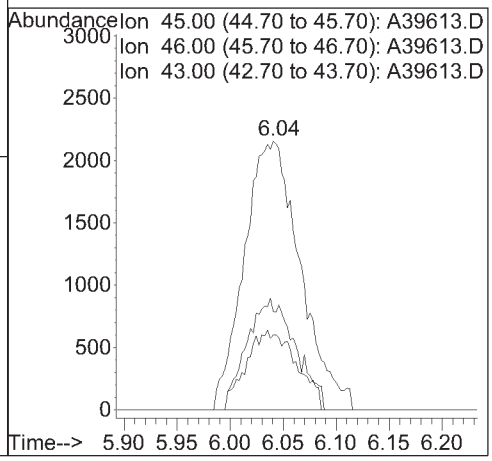


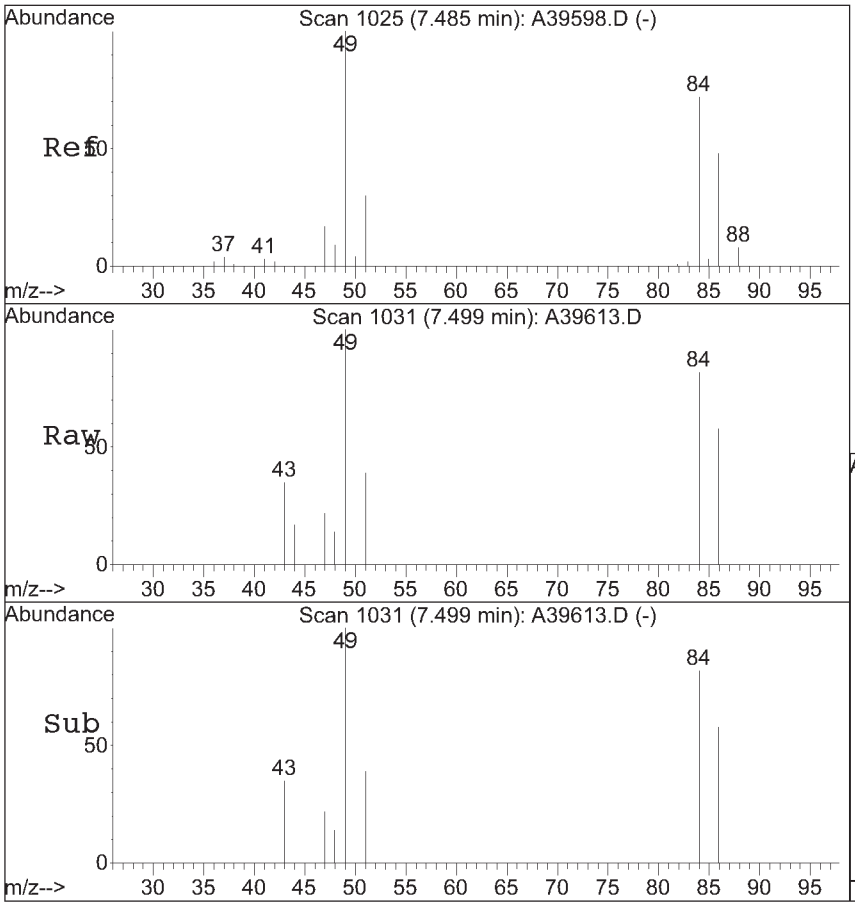


#12
ETHANOL
Concen: 7.58 PPBv
RT: 6.04 min Scan# 486
Delta R.T. 0.01 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion: 45 Resp: 79227

Ion	Ratio	Lower	Upper
45	100		
46	0.0	30.6	46.0#
43	0.0	18.0	27.0#

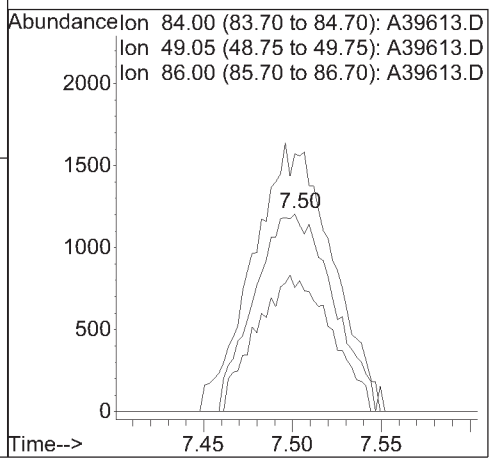


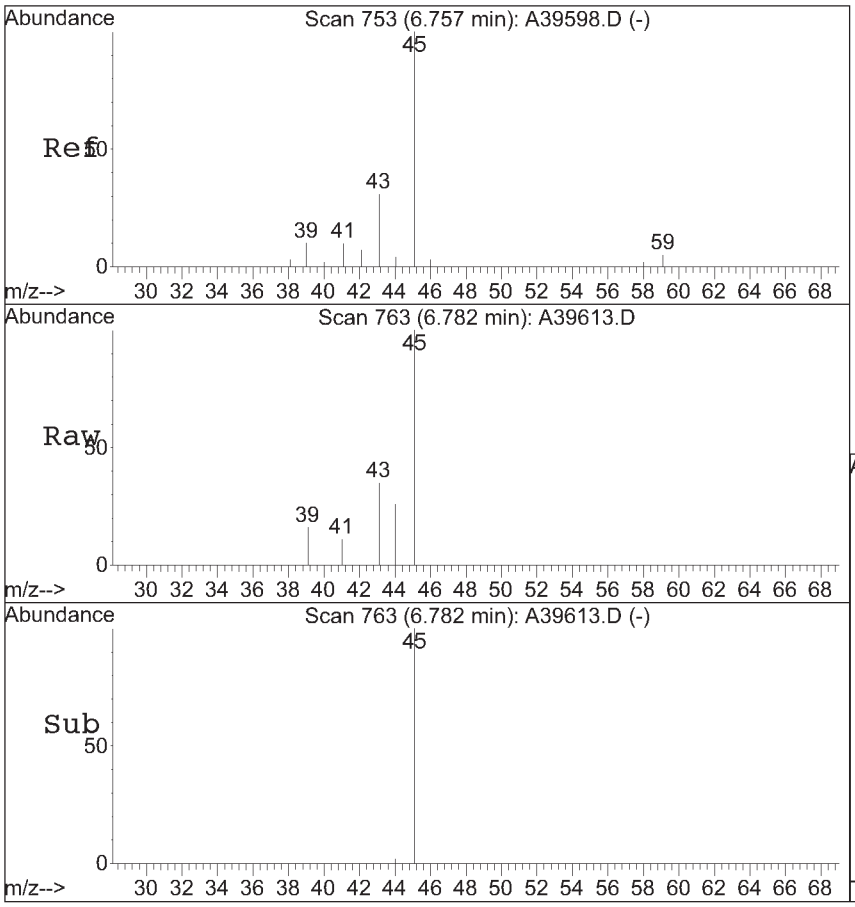


#15
METHYLENE CHLORIDE
Concen: 1.29 PPBv
RT: 7.50 min Scan# 1031
Delta R.T. 0.01 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion: 84 Resp: 37328

Ion	Ratio	Lower	Upper
84	100		
49	135.8	120.3	180.5
86	0.0	52.6	78.8#

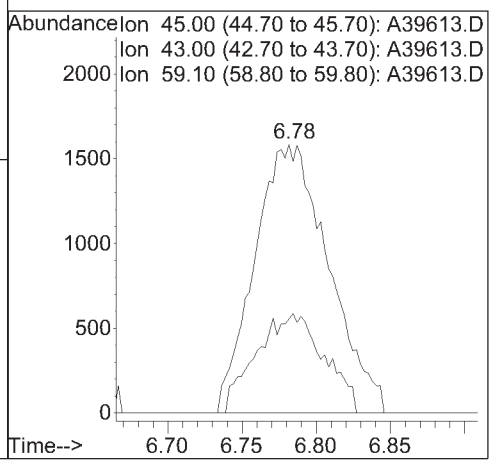


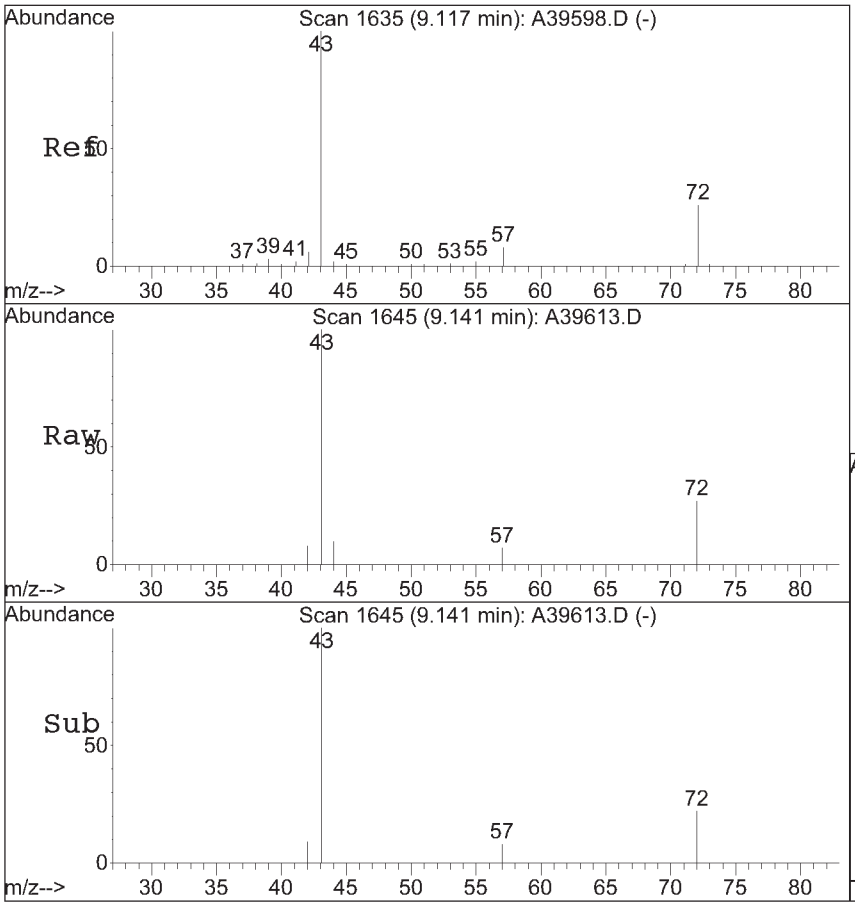


#21
IPA
Concen: 1.32 PPBv
RT: 6.78 min Scan# 763
Delta R.T. 0.02 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion: 45 Resp: 54894

Ion	Ratio	Lower	Upper
45	100		
43	0.0	16.2	24.2#
59	0.0	3.0	4.4#

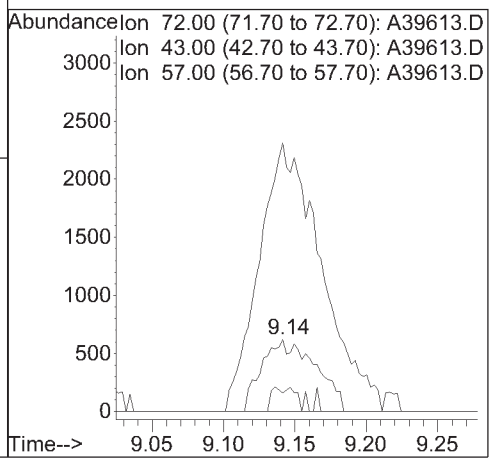


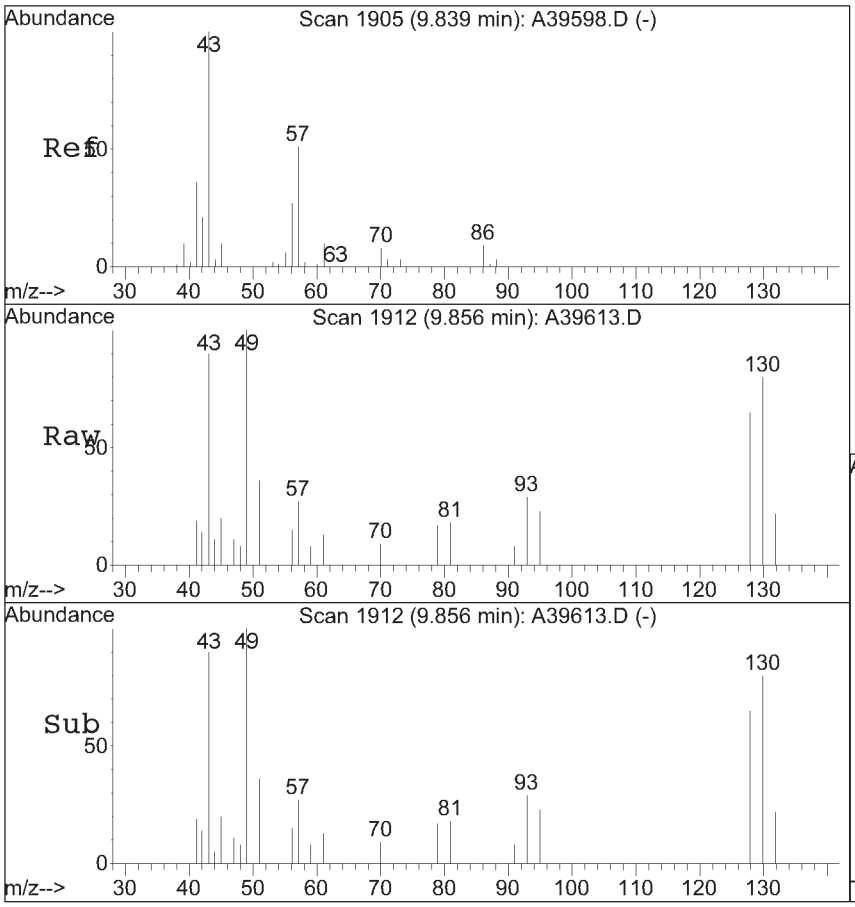


#22
2-BUTANONE(MEK)
Concen: 0.73 PPBv m
RT: 9.14 min Scan# 1645
Delta R.T. 0.01 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion: 72 Resp: 16216

Ion	Ratio	Lower	Upper
72	100		
43	0.0	222.2	333.4#
57	0.0	987.4	1481.0#

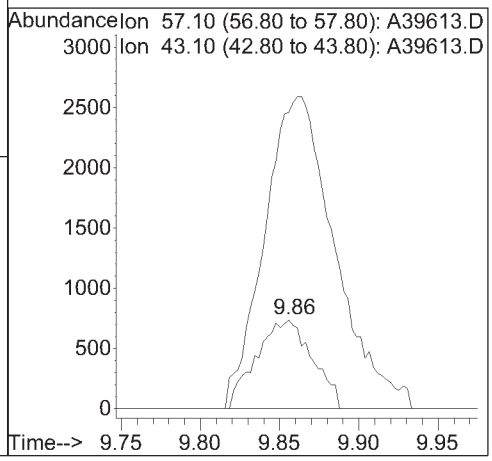


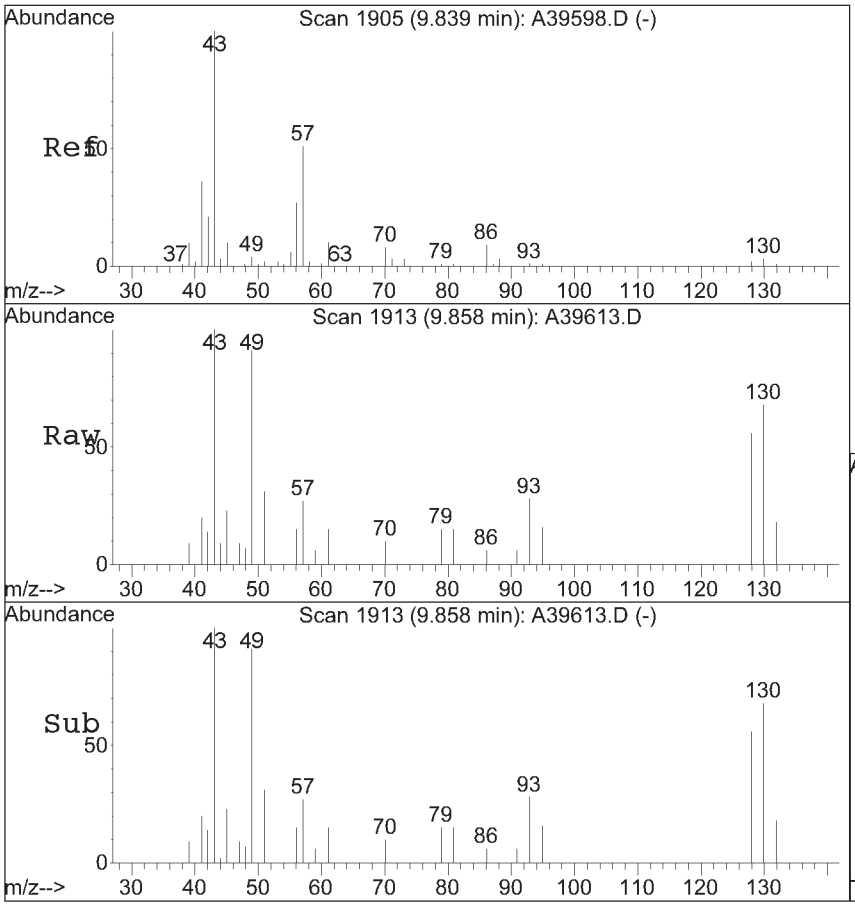


#24
HEXANE
Concen: 0.26 PPBv m
RT: 9.86 min Scan# 1912
Delta R.T. 0.00 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion: 57 Resp: 18127

Ion	Ratio	Lower	Upper
57	100		
43	0.0	163.9	245.9#

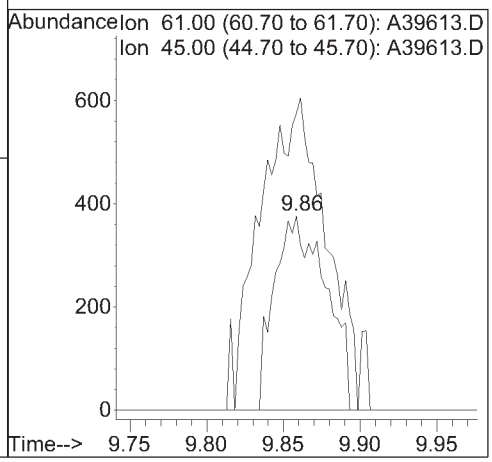


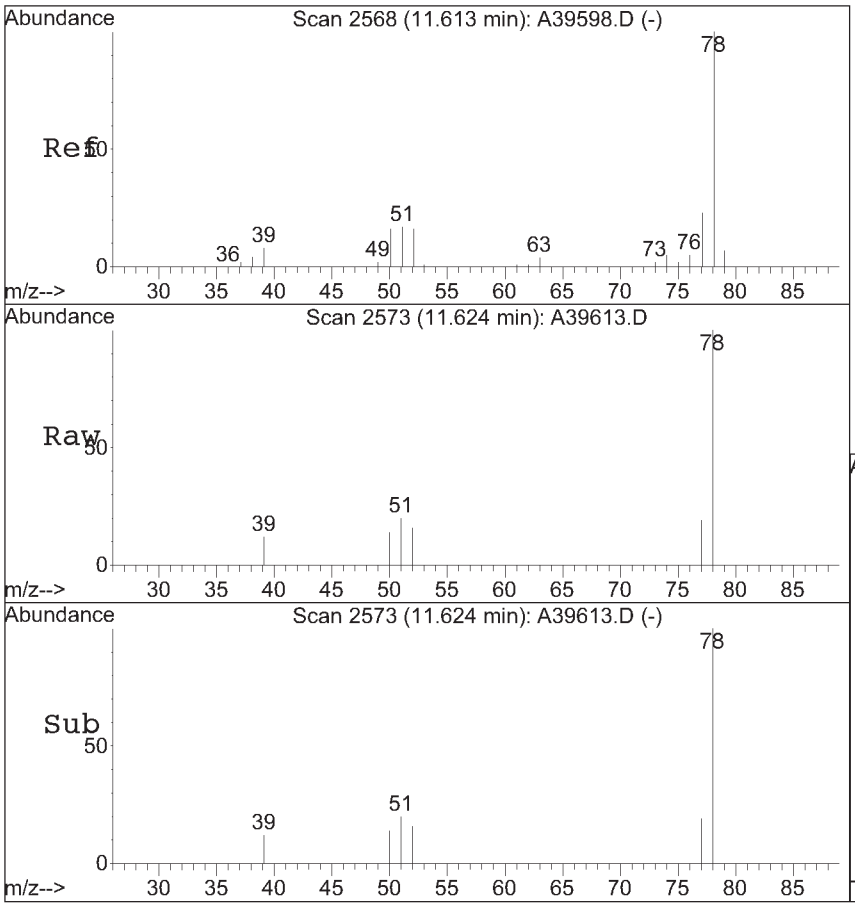


#25
ETHYL ACETATE
Concen: 1.06 PPBv m
RT: 9.86 min Scan# 1913
Delta R.T. 0.00 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion: 61 Resp: 8831

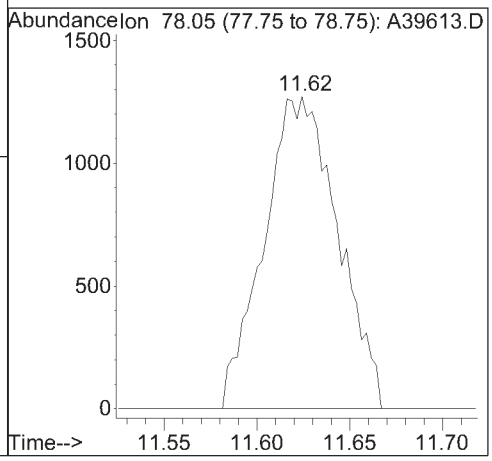
Ion	Ratio	Lower	Upper
61	100		
45	0.0	84.2	126.4#

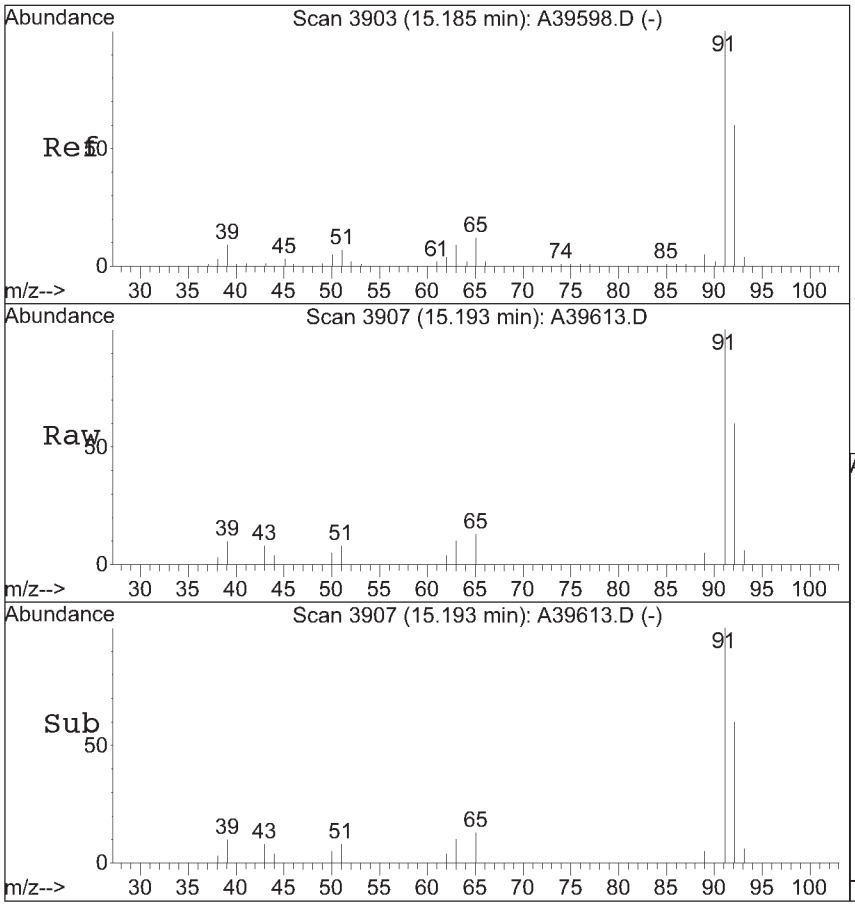




#30
BENZENE
Concen: 0.26 PPBv
RT: 11.62 min Scan# 2573
Delta R.T. -0.01 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion: 78 Resp: 35234

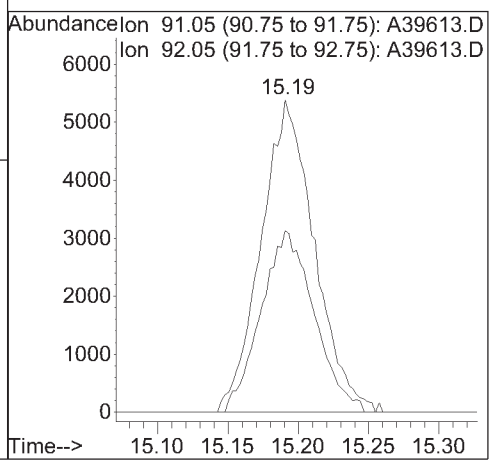


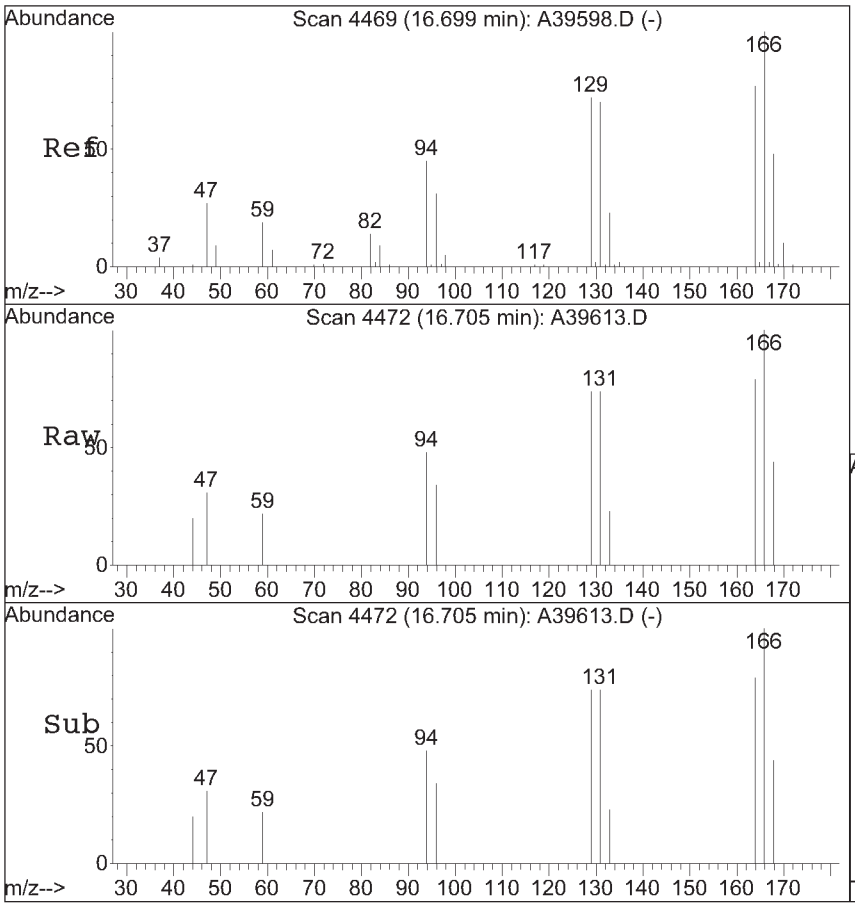


#43
TOLUENE
Concen: 0.90 PPBv
RT: 15.19 min Scan# 3907
Delta R.T. -0.02 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion: 91 Resp: 142111

Ion	Ratio	Lower	Upper
91	100		
92	57.9	48.1	72.1

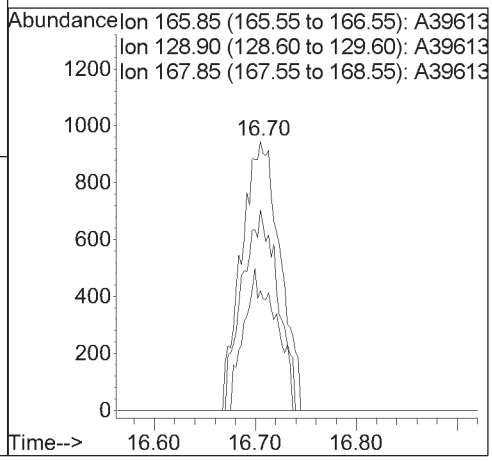


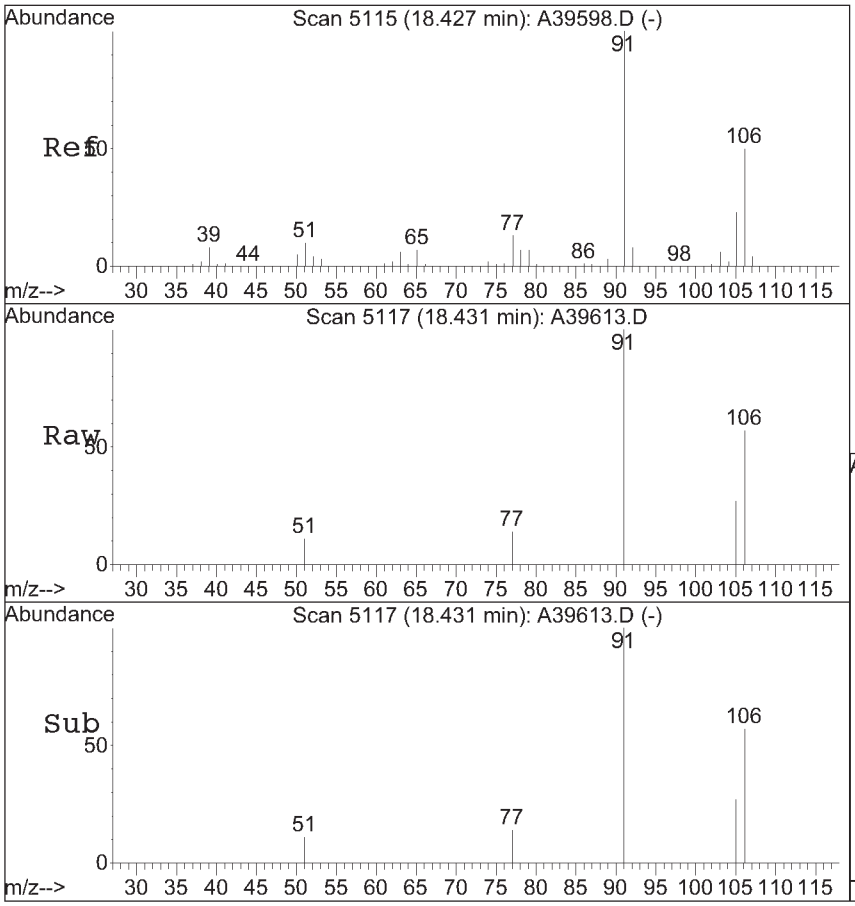


#47
TETRACHLOROETHENE
Concen: 0.33 PPBv m
RT: 16.70 min Scan# 4472
Delta R.T. -0.02 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion:166 Resp: 25049

Ion	Ratio	Lower	Upper
166	100		
129	0.0	56.6	84.8#
168	0.0	38.0	57.0#

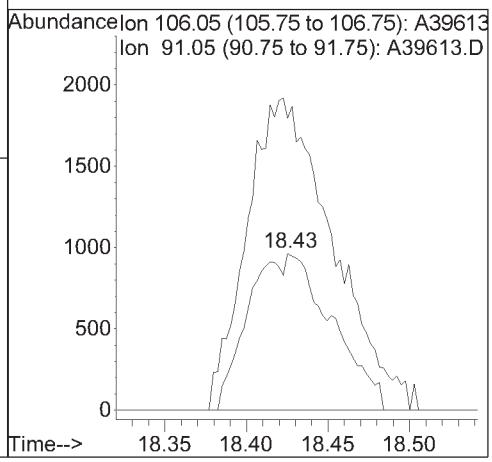




#52
M/P-XYLENE
Concen: 0.48 PPBv
RT: 18.43 min Scan# 5117
Delta R.T. -0.02 min
Lab File: A39613.D
Acq: 8 Mar 2011 8:57 pm

Tgt Ion:106 Resp: 34103

Ion	Ratio	Lower	Upper
106	100		
91	206.7	155.7	233.5



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-Dup-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-10	File ID:	C07491.D
Sampled:	03/03/11 12:00			Analyzed:	03/10/11 20:33
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
71-55-6	1,1,1-Trichloroethane	0.052000	0.28	U
115-07-1	Propene	0.084000	0.14	U
75-71-8	Dichlorodifluoromethane (Freon12)	0.48000	2.37	
74-87-3	Chloromethane	0.50000	1.03	
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.057000	0.40	U
75-01-4	Vinyl chloride	0.064000	0.16	U
106-99-0	1,3-Butadiene	0.055000	0.12	U
74-83-9	Bromomethane	0.052000	0.20	U
75-00-3	Chloroethane	0.076000	0.20	U
67-64-1	Acetone	5.2500	12.48	
75-69-4	Trichlorofluoromethane (Freon 11)	0.26000	1.46	
64-17-5	Ethanol	10.100	19.04	E
75-35-4	1,1-Dichloroethene	0.073000	0.29	U
107-13-1	Acrylonitrile	0.064000	0.14	U
75-09-2	Methylene chloride	0.82000	2.85	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.070000	0.54	J
75-15-0	Carbon disulfide	0.057000	0.18	U
156-60-5	trans-1,2-Dichloroethene	0.042000	0.17	U
75-34-3	1,1-Dichloroethane	0.049000	0.20	U
1634-04-4	Methyl tert-butyl ether	0.049000	0.18	U
67-63-0	Isopropyl alcohol	1.2800	3.14	
78-93-3	2-Butanone (MEK)	0.84000	2.48	
156-59-2	cis-1,2-Dichloroethene	0.049000	0.19	U
110-54-3	Hexane	0.26000	0.92	J
141-78-6	Ethyl acetate	0.83000	2.99	
67-66-3	Chloroform	0.045000	0.22	U
109-99-9	Tetrahydrofuran	0.053000	0.16	U
107-06-2	1,2-Dichloroethane	0.070000	0.28	J
71-43-2	Benzene	0.20000	0.64	
56-23-5	Carbon tetrachloride	0.070000	0.44	J
110-82-7	Cyclohexane	0.10000	0.34	
78-87-5	1,2-Dichloropropane	0.049000	0.23	U
75-27-4	Bromodichloromethane	0.053000	0.36	U
79-01-6	Trichloroethene	0.052000	0.28	U
123-91-1	1,4-Dioxane	0.51000	1.84	
142-82-5	n-Heptane	0.11000	0.45	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.053000	0.22	U
10061-01-5	cis-1,3-Dichloropropene	0.047000	0.21	U
10061-02-6	trans-1,3-Dichloropropene	0.047000	0.21	U
79-00-5	1,1,2-Trichloroethane	0.066000	0.36	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B1-Dup-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-10	File ID:	C07491.D
Sampled:	03/03/11 12:00			Analyzed:	03/10/11 20:33
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
108-88-3	Toluene	0.97000	3.65	
591-78-6	2-Hexanone (MBK)	0.042000	0.17	U
124-48-1	Dibromochloromethane	0.059000	0.50	U
106-93-4	1,2-Dibromoethane (EDB)	0.043000	0.33	U
127-18-4	Tetrachloroethene	0.30000	2.03	
108-90-7	Chlorobenzene	0.061000	0.28	U
100-41-4	Ethylbenzene	0.25000	1.08	
630-20-6	1,1,1,2-Tetrachloroethane	0.047000	0.32	U
179601-23-1	m,p-Xylene	0.54000	2.34	
75-25-2	Bromoform	0.046000	0.48	U
100-42-5	Styrene	0.22000	0.94	
95-47-6	o-Xylene	0.21000	0.91	
79-34-5	1,1,2,2-Tetrachloroethane	0.066000	0.45	U
108-67-8	1,3,5-Trimethylbenzene	0.050000	0.25	J
622-96-8	4-Ethyltoluene	0.055000	0.27	U
95-63-6	1,2,4-Trimethylbenzene	0.17000	0.84	
98-82-8	Isopropylbenzene	0.056000	0.28	U
541-73-1	1,3-Dichlorobenzene	0.055000	0.33	U
100-44-7	Benzyl chloride	0.062000	0.32	U
106-46-7	1,4-Dichlorobenzene	0.061000	0.37	U
91-20-3	Naphthalene	0.18300	0.96	U
95-50-1	1,2-Dichlorobenzene	0.053000	0.32	U
120-82-1	1,2,4-Trichlorobenzene	0.053000	0.39	U
87-68-3	Hexachlorobutadiene	0.040000	0.43	U
135-98-8	sec-Butylbenzene	0.052000	0.29	U
99-87-6	4-Isopropyltoluene	0.062000	0.33	U
104-51-8	n-Butylbenzene	0.056000	0.31	U

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07491.D
Acq On : 10 Mar 2011 8:33 pm
Operator : KRL
Sample : sb25245-10 @ b1-dup 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 11 15:15:10 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	10.134	128	497507	10.00	PPBv	#	0.00
37) 1,4-DIFLUROBENZENE	12.337	114	2424953	10.00	PPBv		0.00
54) CHLOROBENZENE-D5	17.879	54	245225	10.00	PPBv	#	0.00
System Monitoring Compounds							
63) 4-BROMOFLUOROBENZENE	20.103	95	1047911	12.27	PPBv		0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 122.70%#				
Target Compounds							Qvalue
3) DICHLORODIFLUOROMETHANE	5.176	85	342058	0.48	PPBv	#	100
4) CHLOROMETHANE	5.359	50	185217	0.50	PPBv	#	100
11) ACETONE	6.819	58	801131m	5.25	PPBv		
12) TRICHLOROFLUOROMETHANE	7.036	101	252827	0.26	PPBv	#	100
13) ETHANOL	6.313	45	901901	10.10	PPBv	#	100
17) METHYLENE CHLORIDE	7.815	84	229198	0.82	PPBv	#	100
18) FREON 113	8.096	101	43669	0.07	PPBv	#	100
24) IPA	7.069	45	603518	1.28	PPBv	#	100
25) 2-BUTANONE (MEK)	9.438	72	89530	0.84	PPBv	#	100
27) HEXANE	10.177	57	95779	0.26	PPBv	#	100
28) ETHYL ACETATE	10.165	61	60043	0.83	PPBv	#	100
31) 1,2-DICHLOROETHANE	11.115	62	17653	0.07	PPBv	#	100
33) BENZENE	11.945	78	153046	0.20	PPBv		100
34) CARBON TETRACHLORIDE	12.118	119	39219	0.07	PPBv	#	100
35] CARBON TETRACHLORIDE (...	12.124	119	42153	0.06	PPBv	#	100
36) CYCLOHEXANE	12.283	56	36074m	0.10	PPBv		
40) TRICHLOROETHENE	13.190	95	8707m	0.03	PPBv		
41] TRICHLOROETHENE (SIM)	13.189	95	11563	0.02	PPBv	#	100
42) 1,4-DIOXANE	13.196	88	62707	0.51	PPBv	#	100
43) HEPTANE	13.533	57	24151m	0.11	PPBv		
44) MIBK	14.285	43	28475	0.05	PPBv	#	100
48) TOLUENE	15.496	91	855607	0.97	PPBv	#	100
52) TETRACHLOROETHENE	17.008	166	135634	0.30	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.009	166	161221	0.31	PPBv	#	100
57) ETHYLBENZENE	18.470	91	216241	0.25	PPBv	#	100
58) M/P-XYLENE	18.713	106	225763	0.54	PPBv	#	100
60) STYRENE	19.256	104	108455	0.22	PPBv	#	100
61) O-XYLENE	19.414	106	81758	0.21	PPBv	#	100
64) ISOPROPYLBENZENE	20.311	105	21207	0.02	PPBv	#	100
65) 4-ETHYLTOLUENE	21.359	105	35799m	0.04	PPBv		
66) 1,3,5-TRIMETHYLBENZENE	21.497	105	39951m	0.05	PPBv		
67) 1,2,4-TRIMETHYLBENZENE	22.179	105	127513	0.17	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.857	119	36595	0.03	PPBv	#	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07491.D
Acq On : 10 Mar 2011 8:33 pm
Operator : KRL
Sample : sb25245-10 @ b1-dup 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 11 15:15:10 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

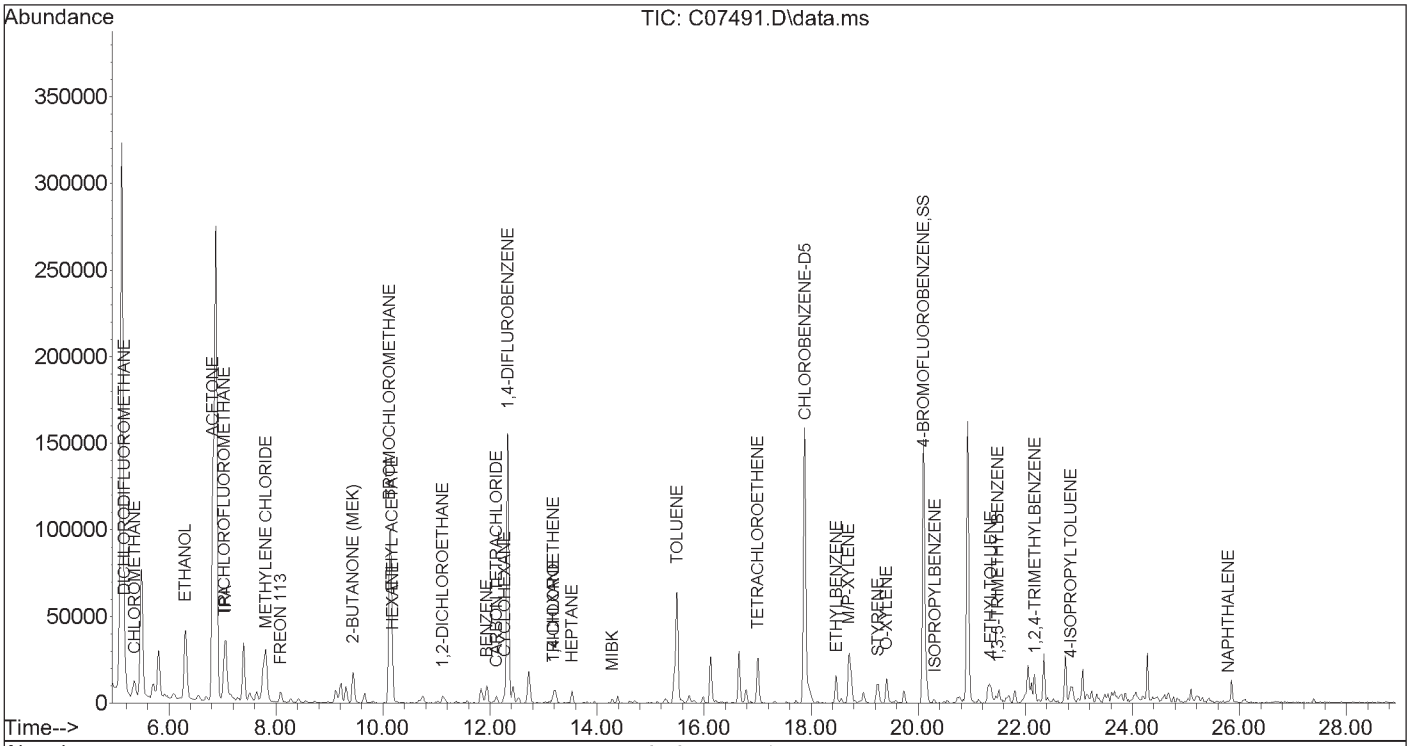
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NAPHTHALENE	25.794	128	25902	0.03	PPBv	100

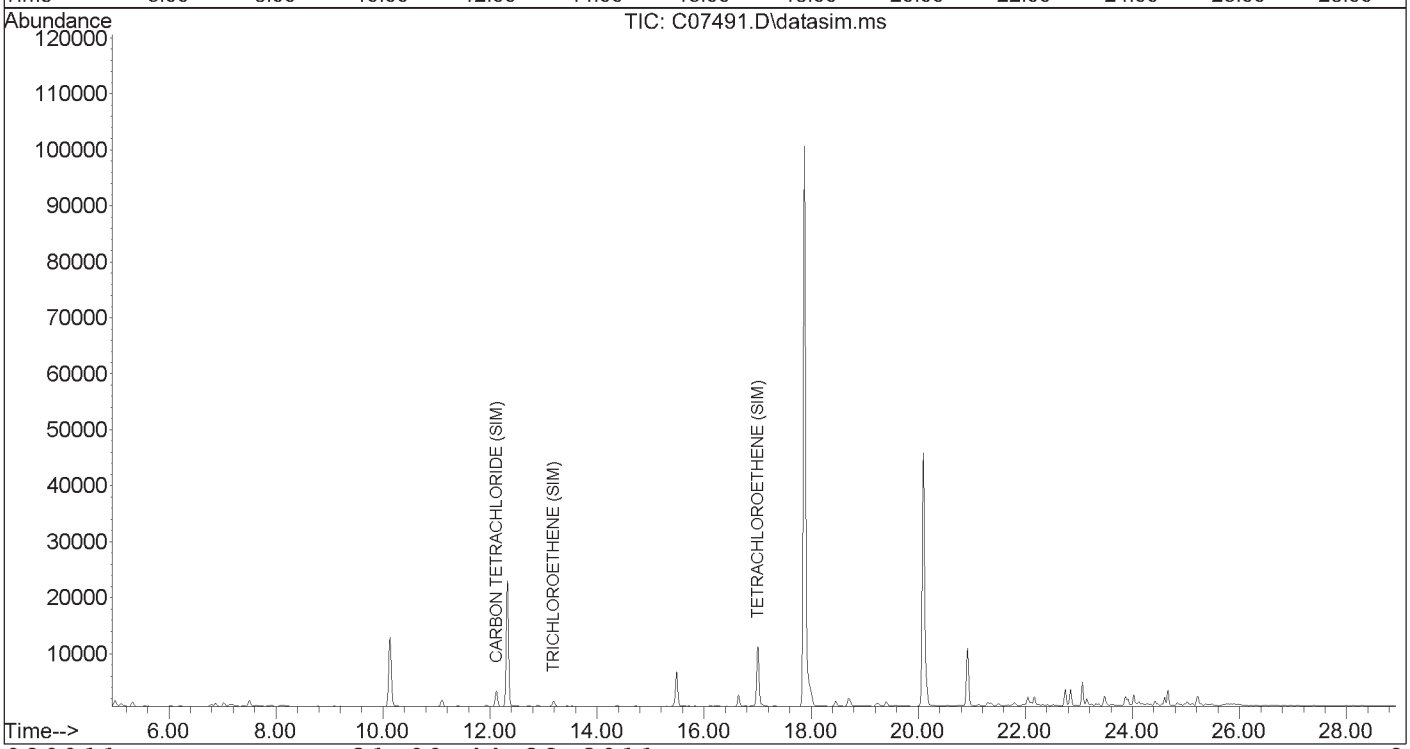
(#) = qualifier out of range (m) = manual integration (+) = signals summed

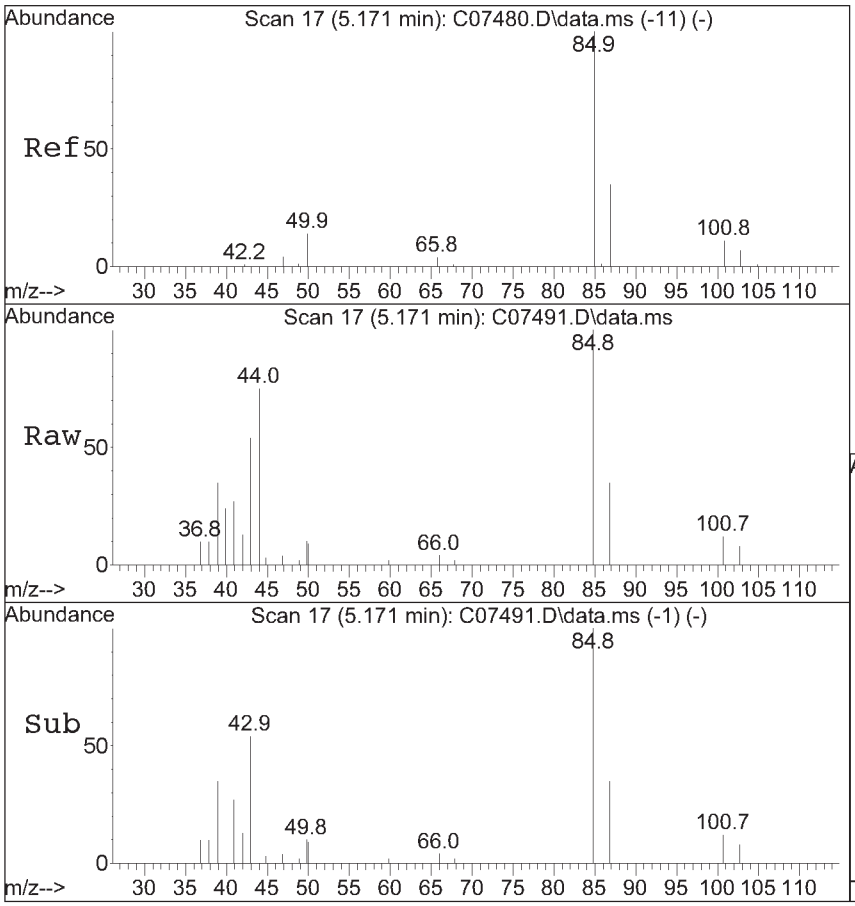
Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07491.D
Acq On : 10 Mar 2011 8:33 pm
Operator : KRL
Sample : sb25245-10 @ b1-dup 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 11 15:15:10 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration



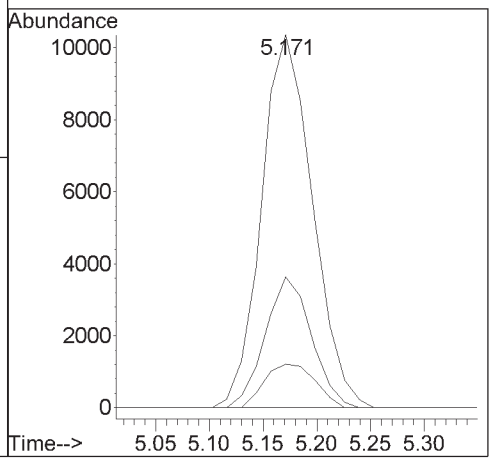


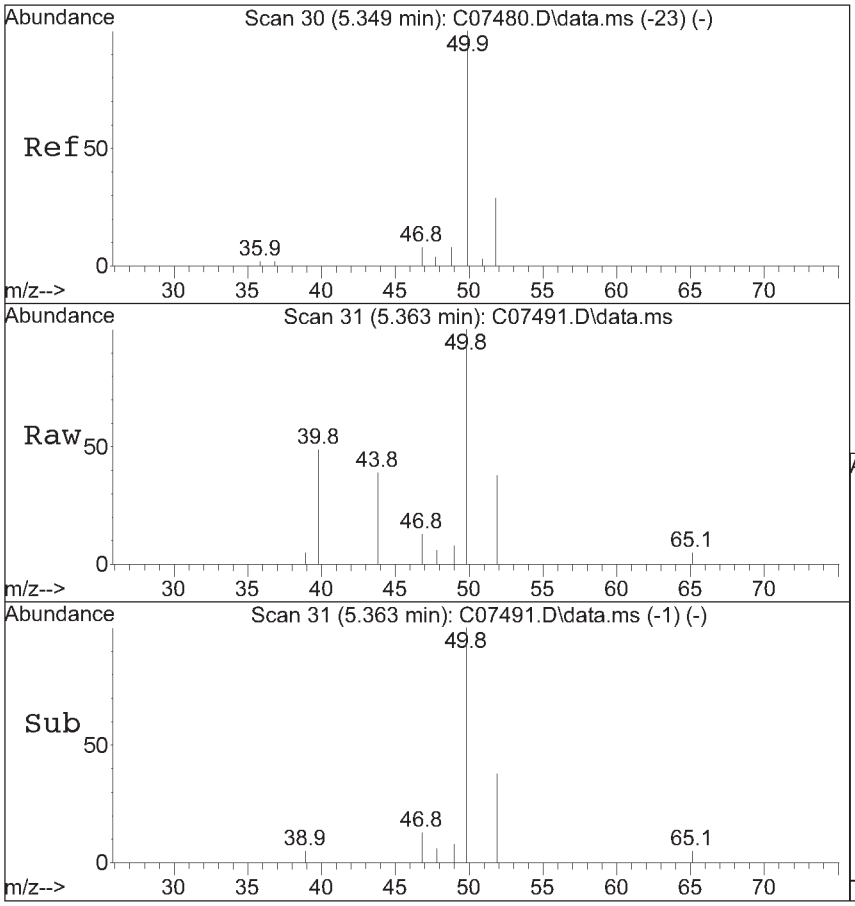


#3
DICHLORODIFLUOROMETHANE
Concen: 0.48 PPBv
RT: 5.176 min Scan# 17
Delta R.T. 0.002 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 85 Resp: 342058

Ion	Ratio	Lower	Upper
85	100		
87	31.9	0.0	0.0#
101	11.6	0.0	0.0#

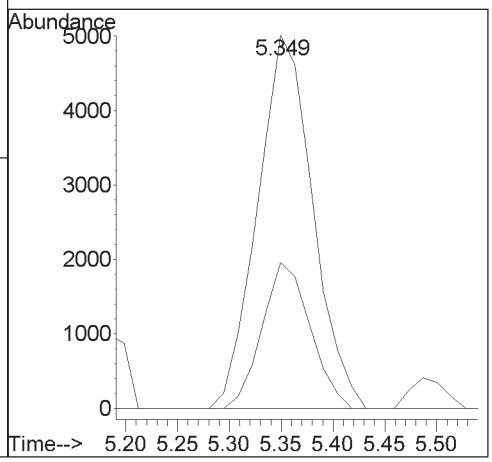


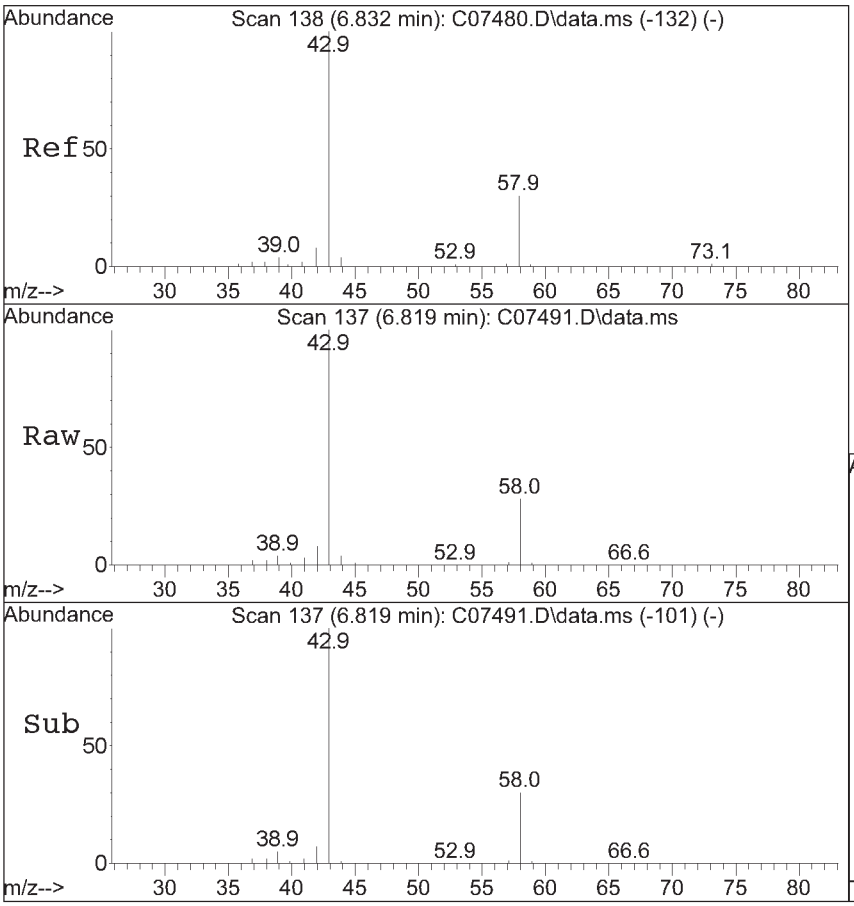


#4
CHLOROMETHANE
Concen: 0.50 PPBv
RT: 5.359 min Scan# 31
Delta R.T. 0.002 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 50 Resp: 185217

Ion	Ratio	Lower	Upper
50	100		
52	34.0	0.0	0.0#

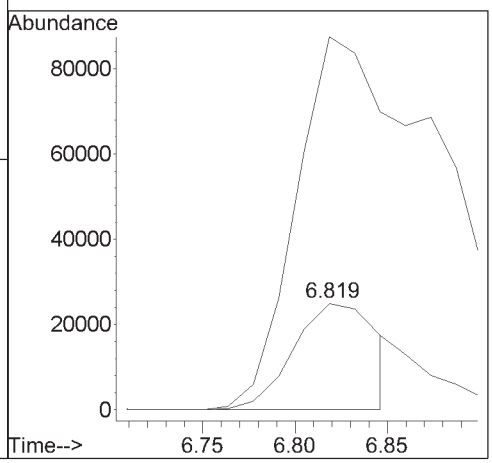


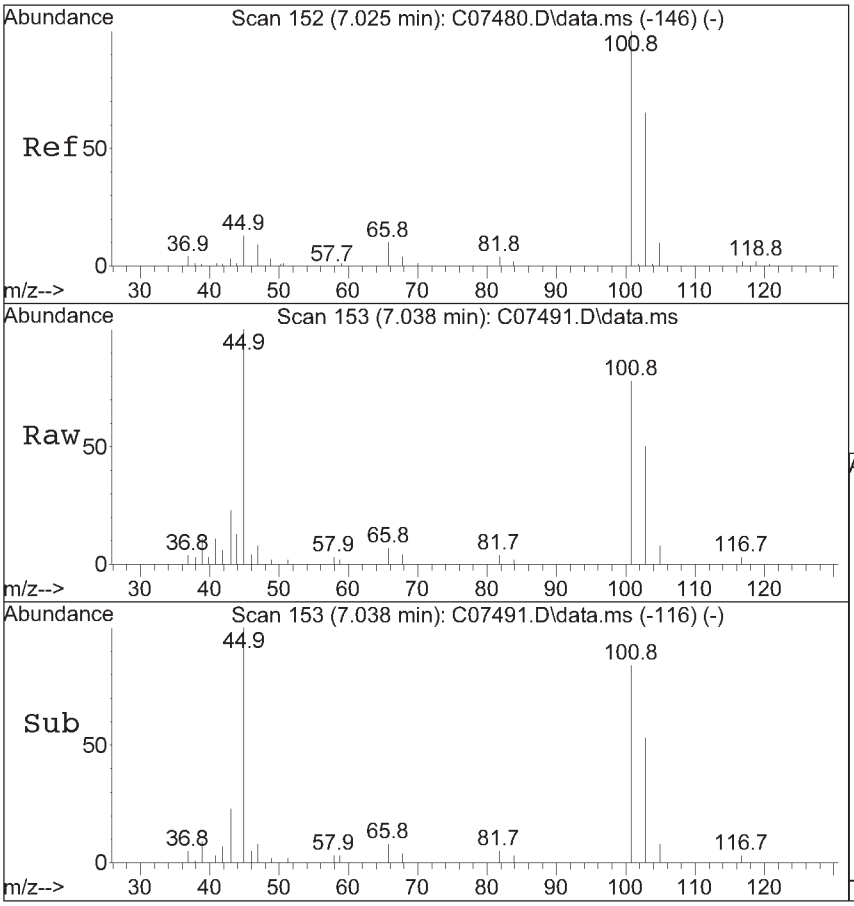


#11
ACETONE
Concen: 5.25 PPBv m
RT: 6.819 min Scan# 137
Delta R.T. -0.011 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 58 Resp: 801131

Ion	Ratio	Lower	Upper
58	100		
43	594.1	0.0	0.0#

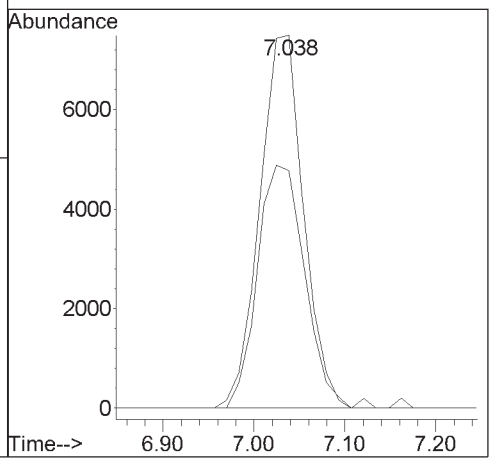


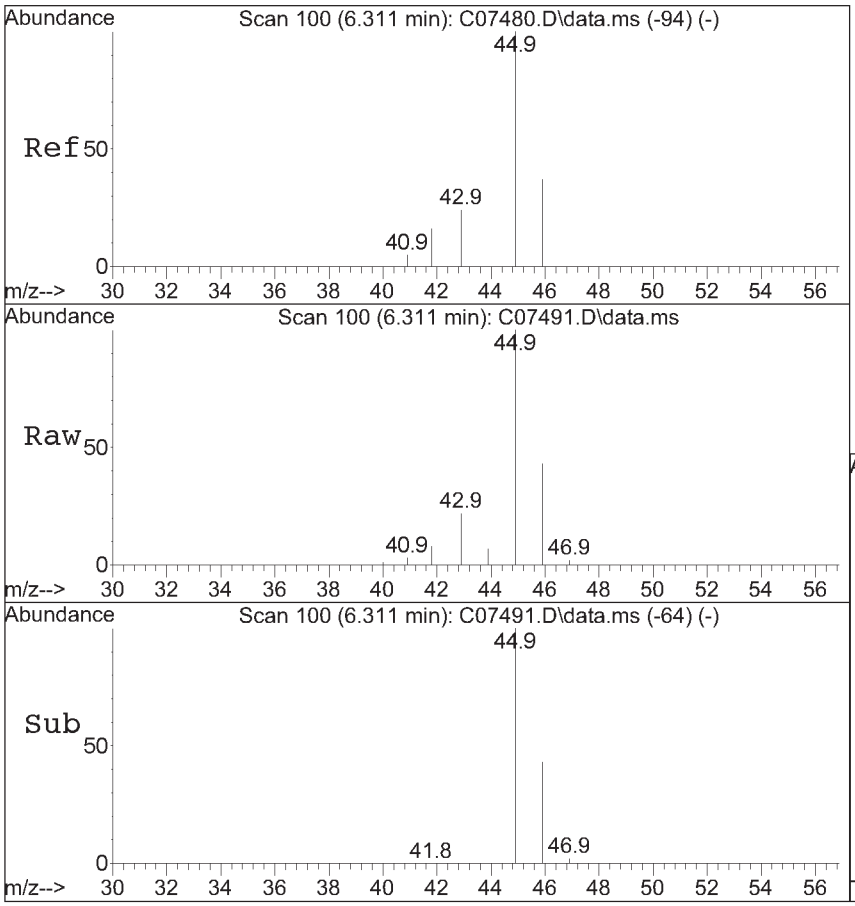


#12
TRICHLOROFLUOROMETHANE
Concen: 0.26 PPBv
RT: 7.036 min Scan# 153
Delta R.T. 0.004 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:101 Resp: 252827

Ion	Ratio	Lower	Upper
101	100		
103	69.8	0.0	0.0#

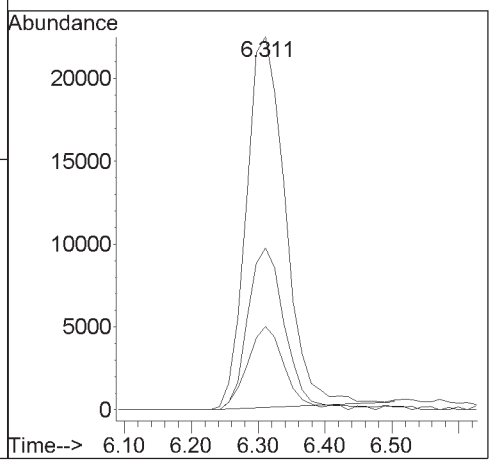


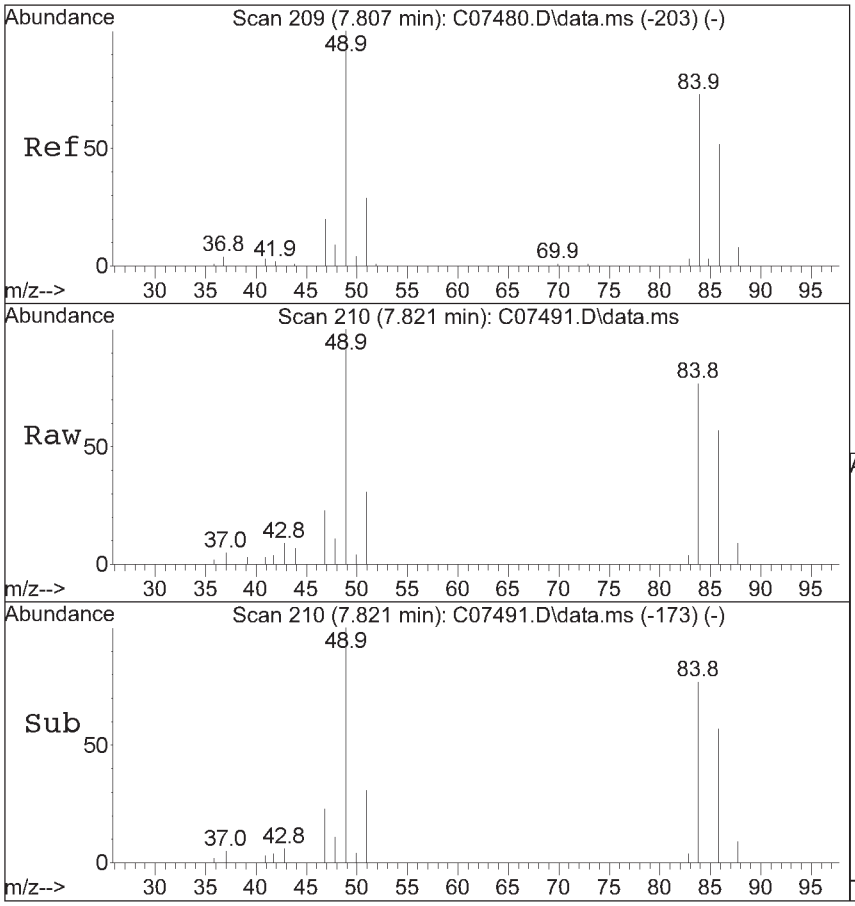


#13
ETHANOL
Concen: 10.10 PPBv
RT: 6.313 min Scan# 100
Delta R.T. -0.004 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 45 Resp: 901901

Ion	Ratio	Lower	Upper
45	100		
46	41.2	0.0	0.0#
43	0.0	0.0	0.0

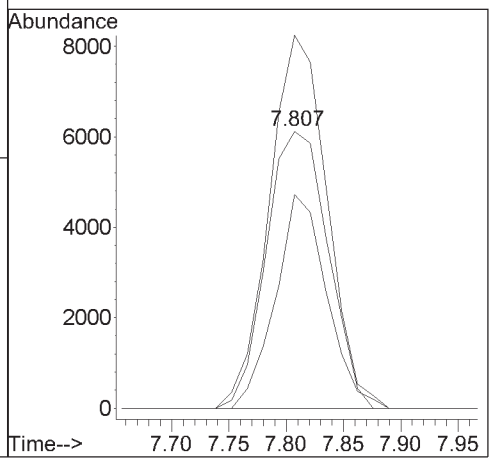


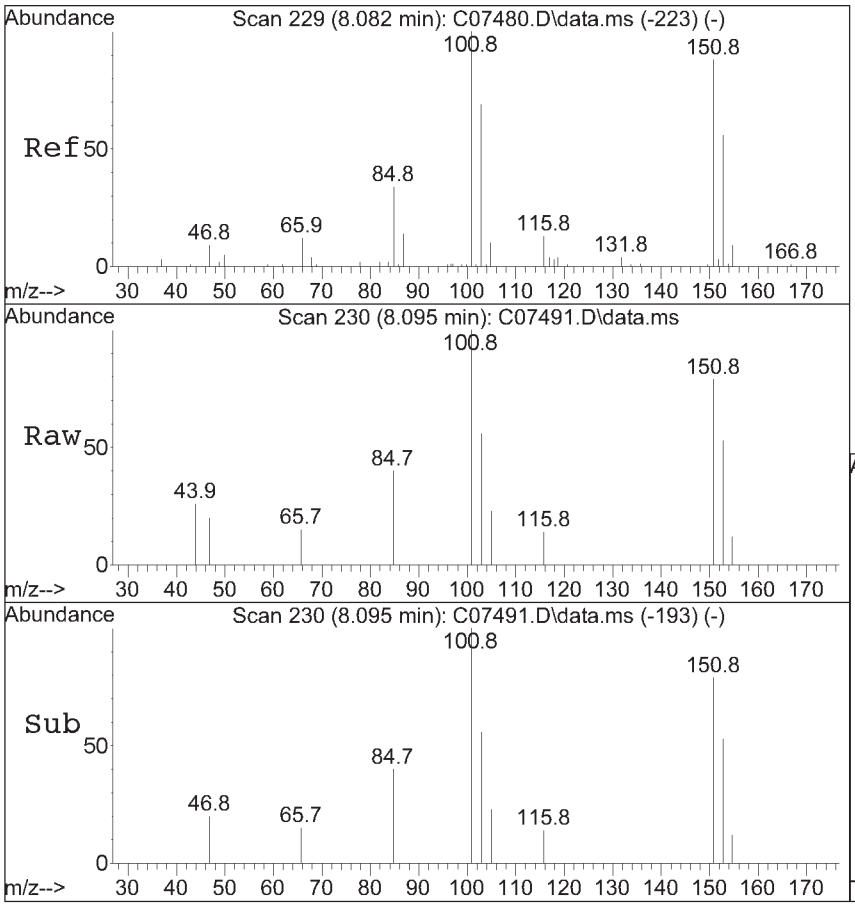


#17
METHYLENE CHLORIDE
Concen: 0.82 PPBv
RT: 7.815 min Scan# 210
Delta R.T. 0.003 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 84 Resp: 229198

Ion	Ratio	Lower	Upper
84	100		
49	126.2	0.0	0.0#
86	64.3	0.0	0.0#

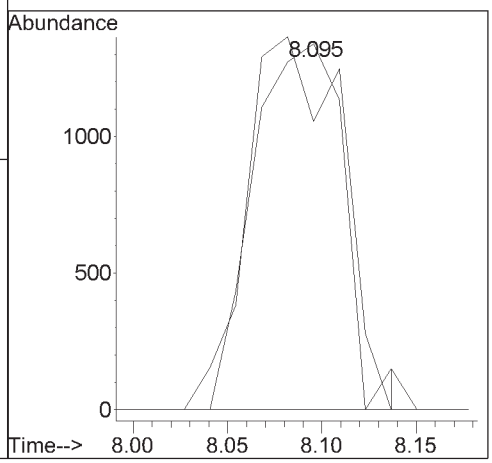


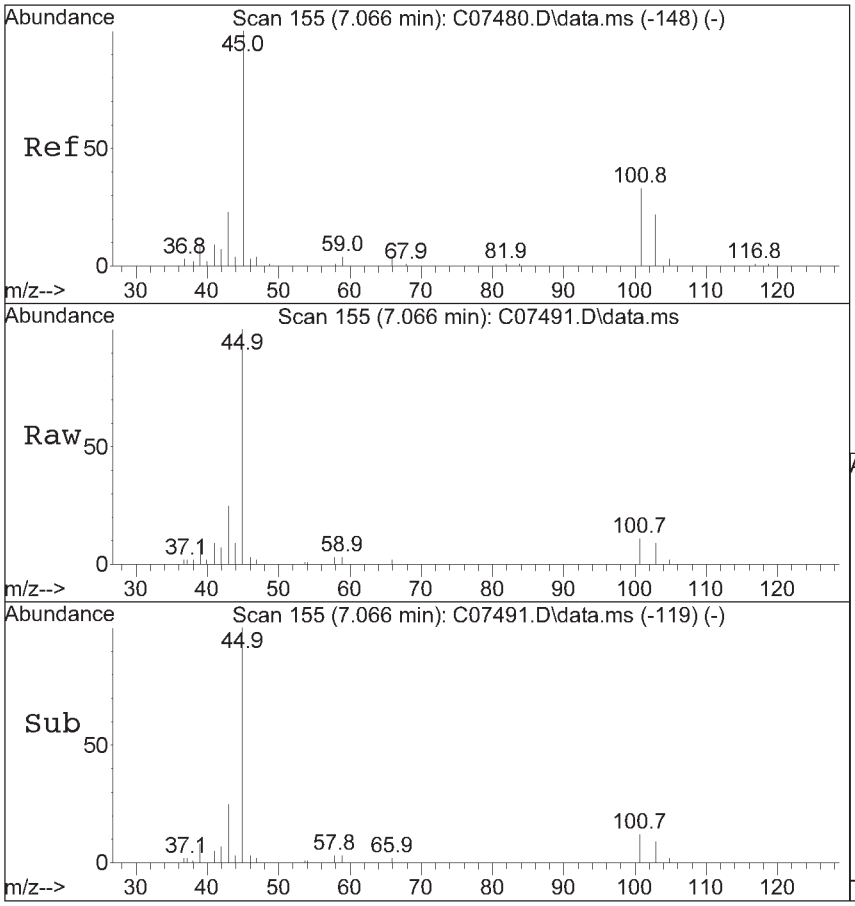


#18
FREON 113
Concen: 0.07 PPBv
RT: 8.096 min Scan# 230
Delta R.T. 0.008 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:101 Resp: 43669

Ion	Ratio	Lower	Upper
101	100		
151	108.9	0.0	0.0#

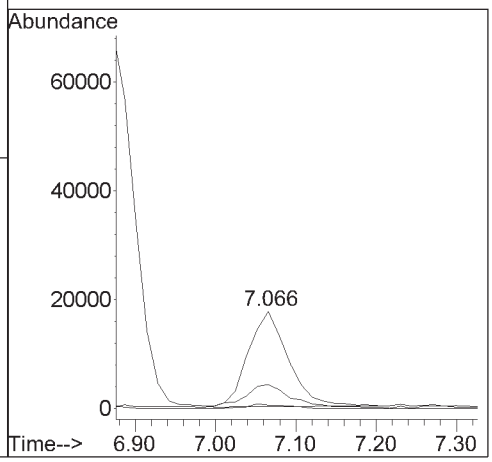


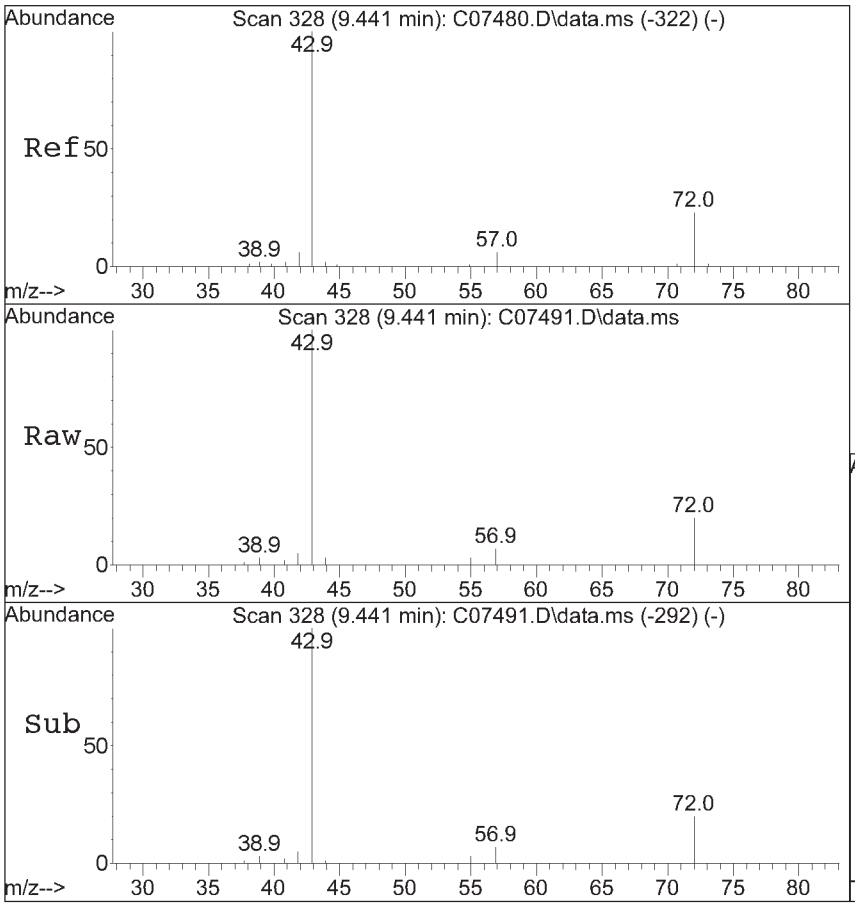


#24
IPA
Concen: 1.28 PPBv
RT: 7.069 min Scan# 155
Delta R.T. 0.003 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 45 Resp: 603518

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	0.0
59	4.0	0.0	0.0#

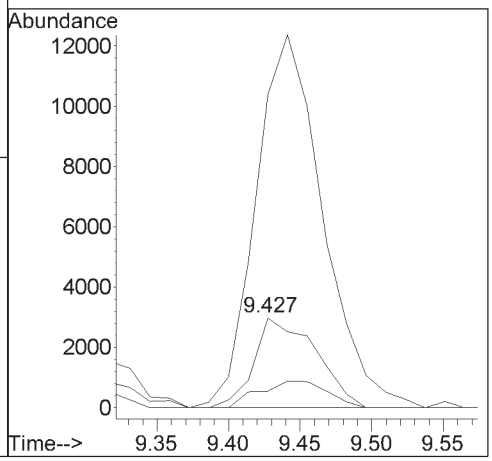


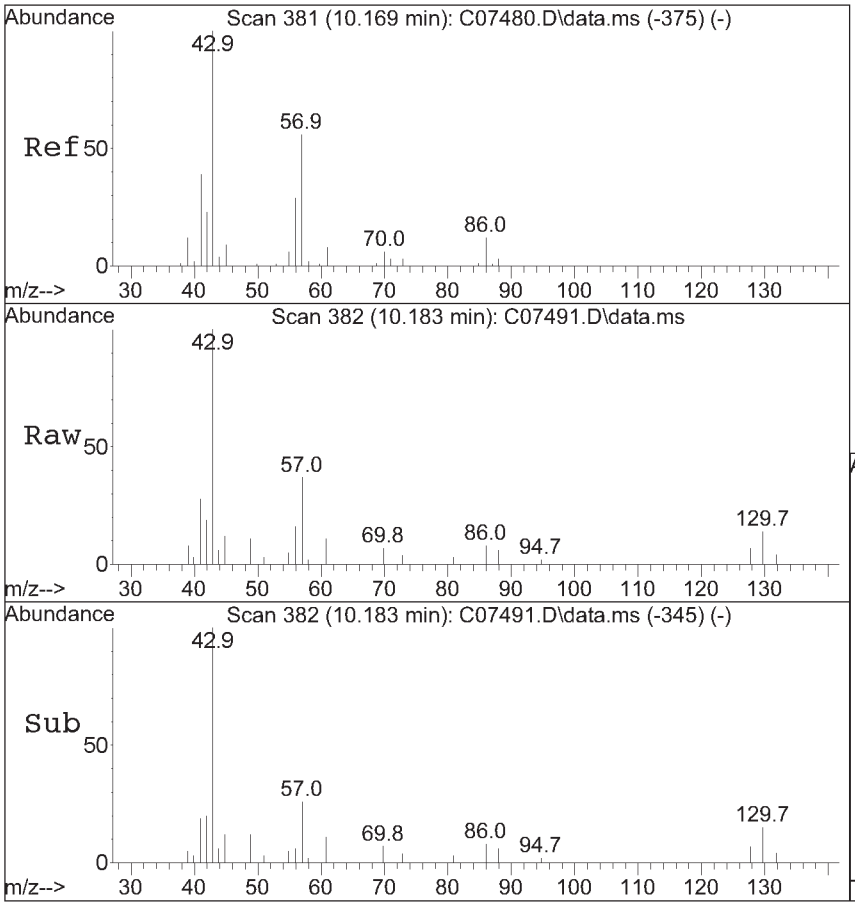


#25
2-BUTANONE (MEK)
Concen: 0.84 PPBv
RT: 9.438 min Scan# 328
Delta R.T. -0.002 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 72 Resp: 89530

Ion	Ratio	Lower	Upper
72	100		
57	0.0	0.0	0.0
43	451.8	0.0	0.0#

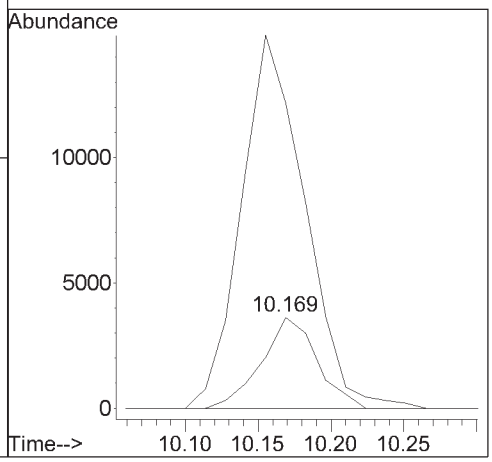


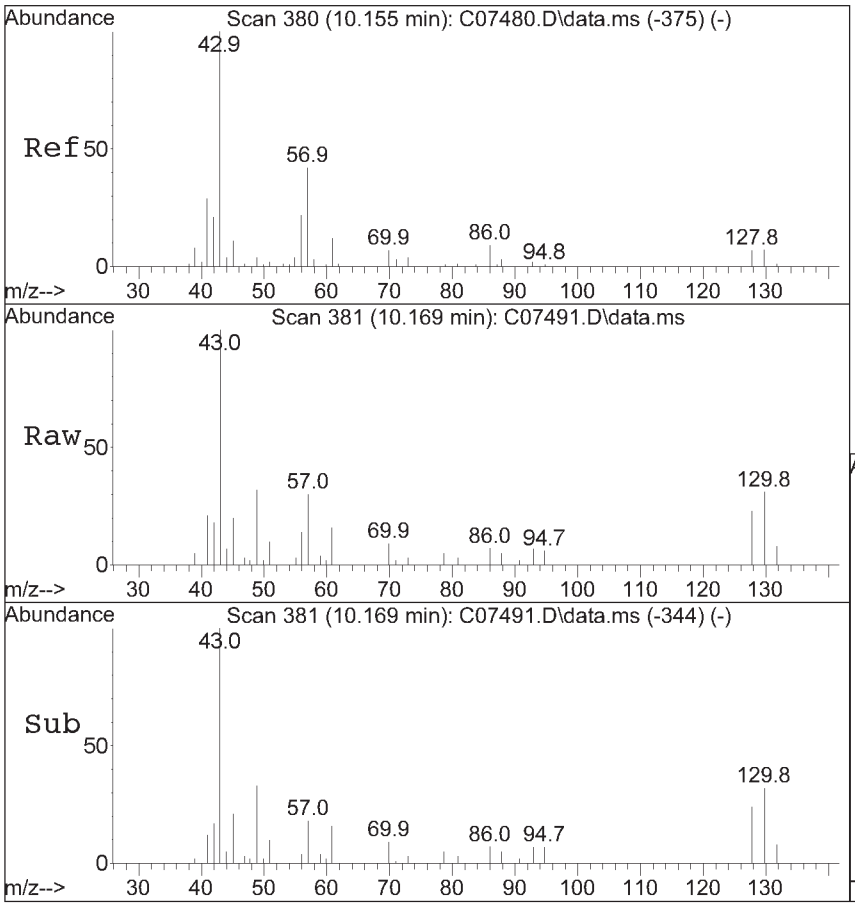


#27
HEXANE
Concen: 0.26 PPBv
RT: 10.177 min Scan# 382
Delta R.T. 0.003 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 57 Resp: 95779

Ion	Ratio	Lower	Upper
57	100		
43	468.8	0.0	0.0#

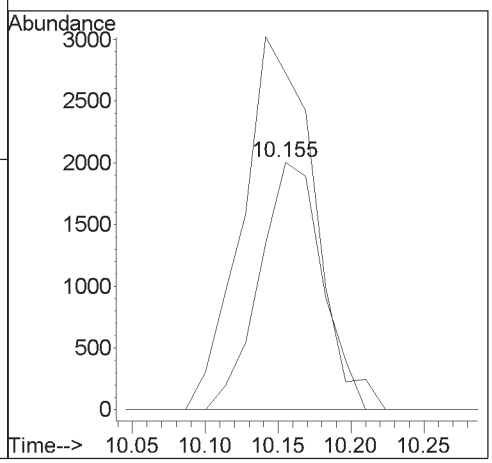


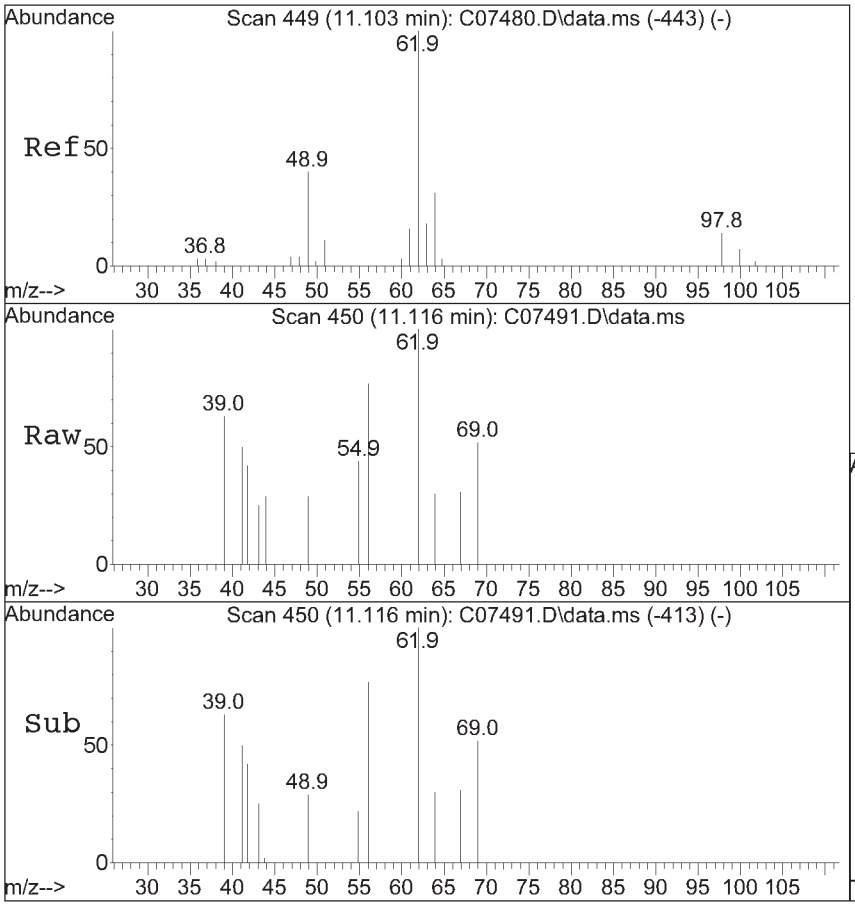


#28
ETHYL ACETATE
Concen: 0.83 PPBv
RT: 10.165 min Scan# 381
Delta R.T. 0.005 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 61 Resp: 60043

Ion	Ratio	Lower	Upper
61	100		
45	171.3	0.0	0.0#

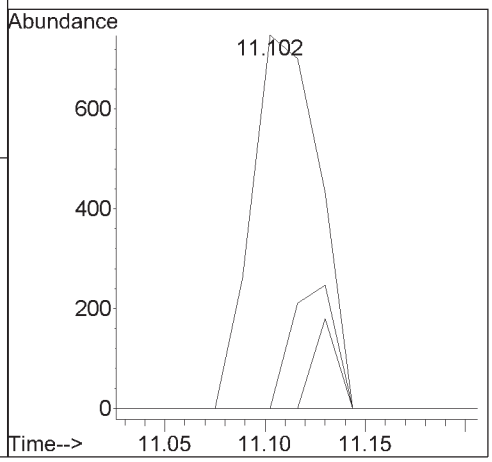


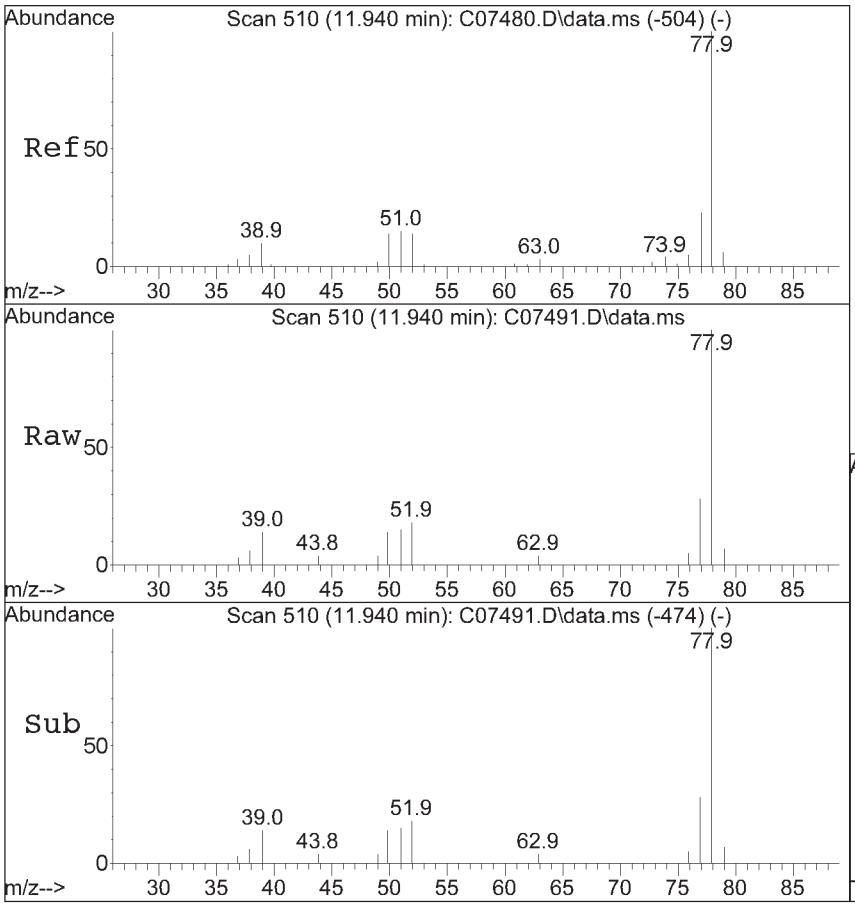


#31
1,2-DICHLOROETHANE
Concen: 0.07 PPBv
RT: 11.115 min Scan# 450
Delta R.T. 0.007 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 62 Resp: 17653

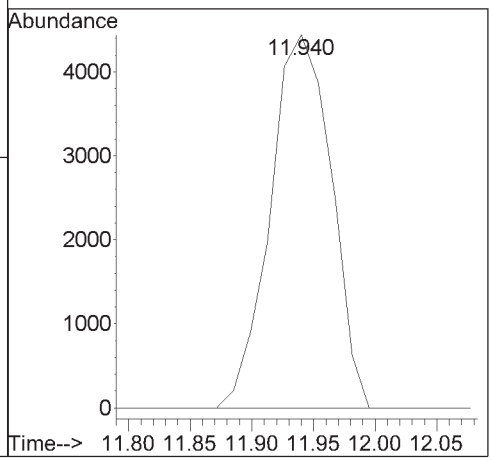
Ion	Ratio	Lower	Upper
62	100		
64	0.0	0.0	0.0
98	0.0	0.0	0.0

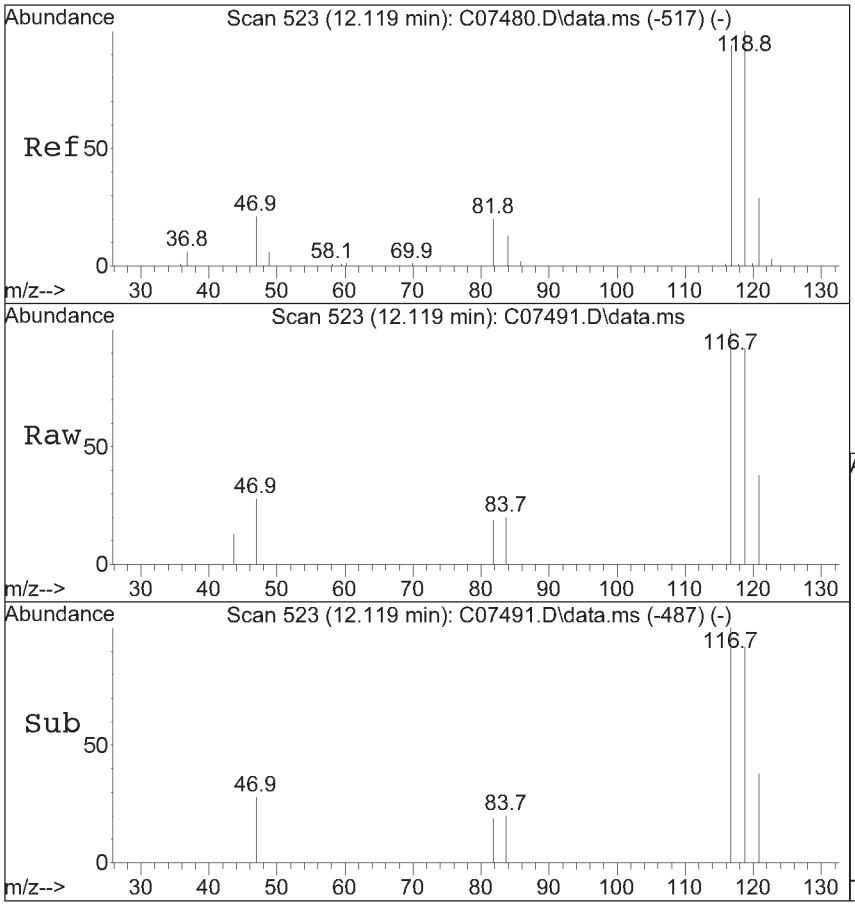




#33
BENZENE
Concen: 0.20 PPBv
RT: 11.945 min Scan# 510
Delta R.T. -0.001 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 78 Resp: 153046

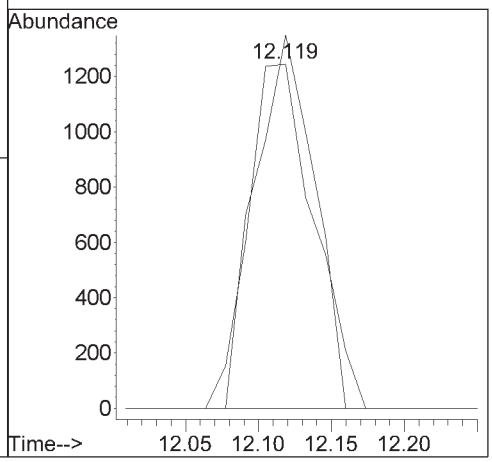


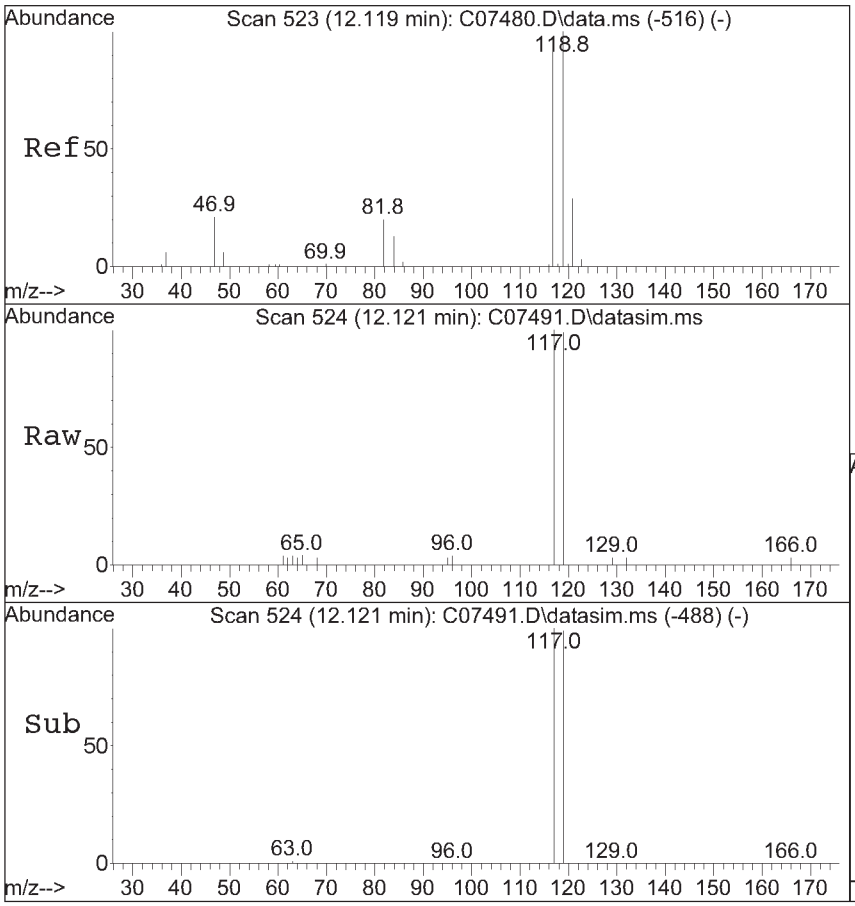


#34
CARBON TETRACHLORIDE
Concen: 0.07 PPBv
RT: 12.118 min Scan# 523
Delta R.T. -0.004 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:119 Resp: 39219

Ion	Ratio	Lower	Upper
119	100		
117	97.4	0.0	0.0#

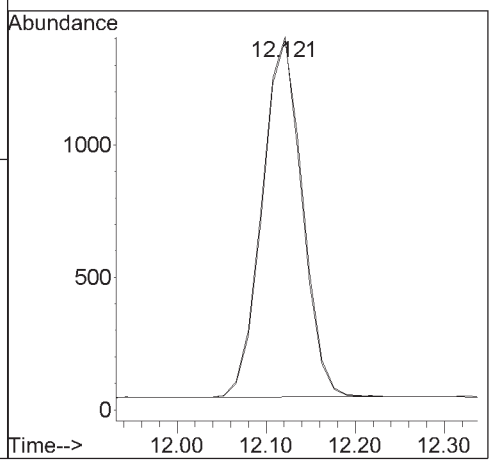


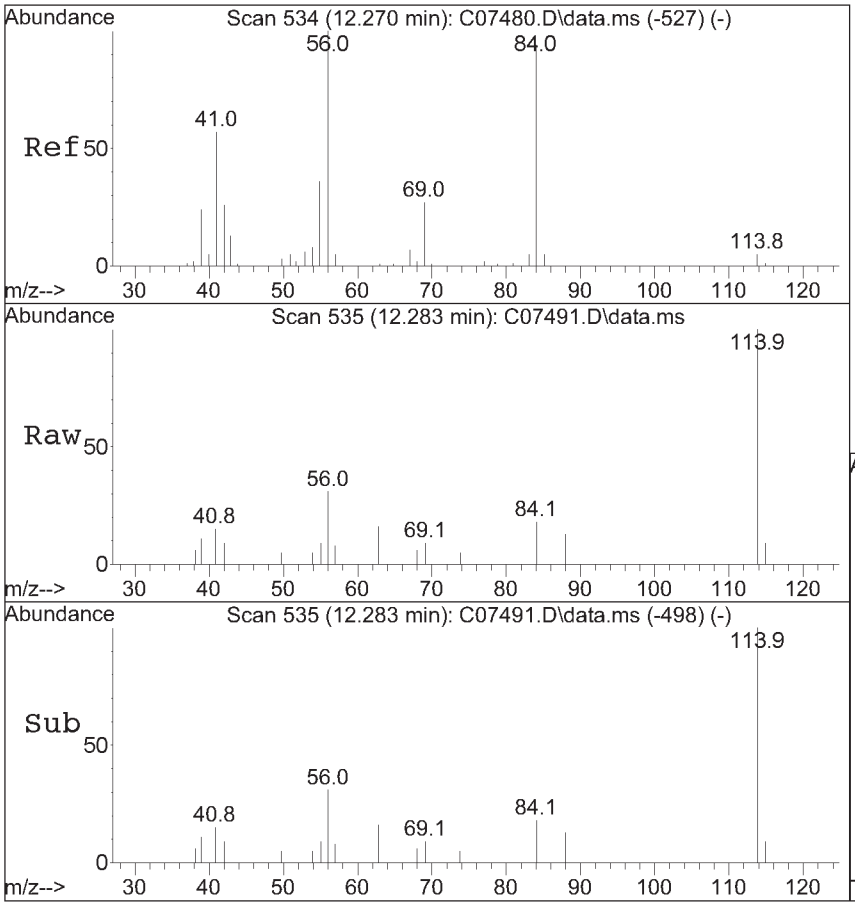


#35
CARBON TETRACHLORIDE (SIM)
Concen: 0.06 PPBv
RT: 12.124 min Scan# 524
Delta R.T. 0.002 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:119 Resp: 42153

Ion	Ratio	Lower	Upper
119	100		
117	99.9	0.0	0.0#

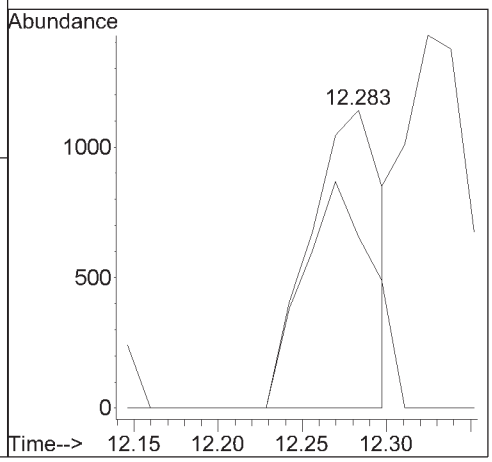


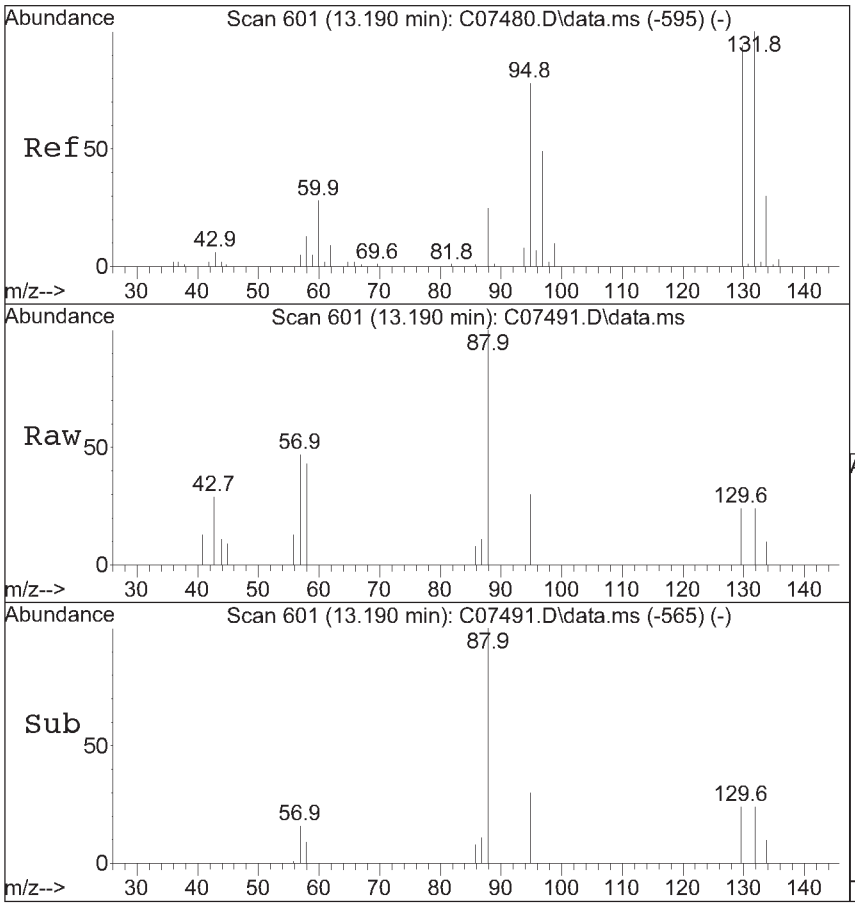


#36
CYCLOHEXANE
Concen: 0.10 PPBv m
RT: 12.283 min Scan# 535
Delta R.T. 0.013 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 56 Resp: 36074

Ion	Ratio	Lower	Upper
56	100		
84	68.4	0.0	0.0#

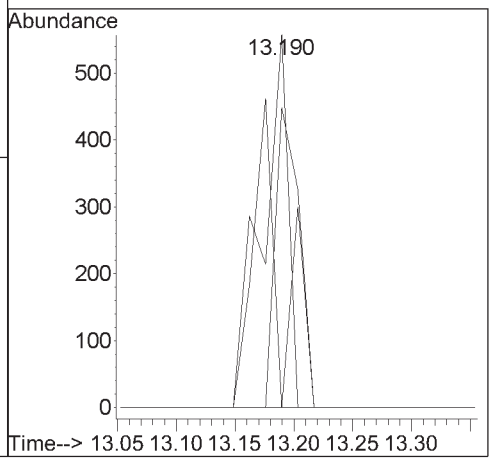


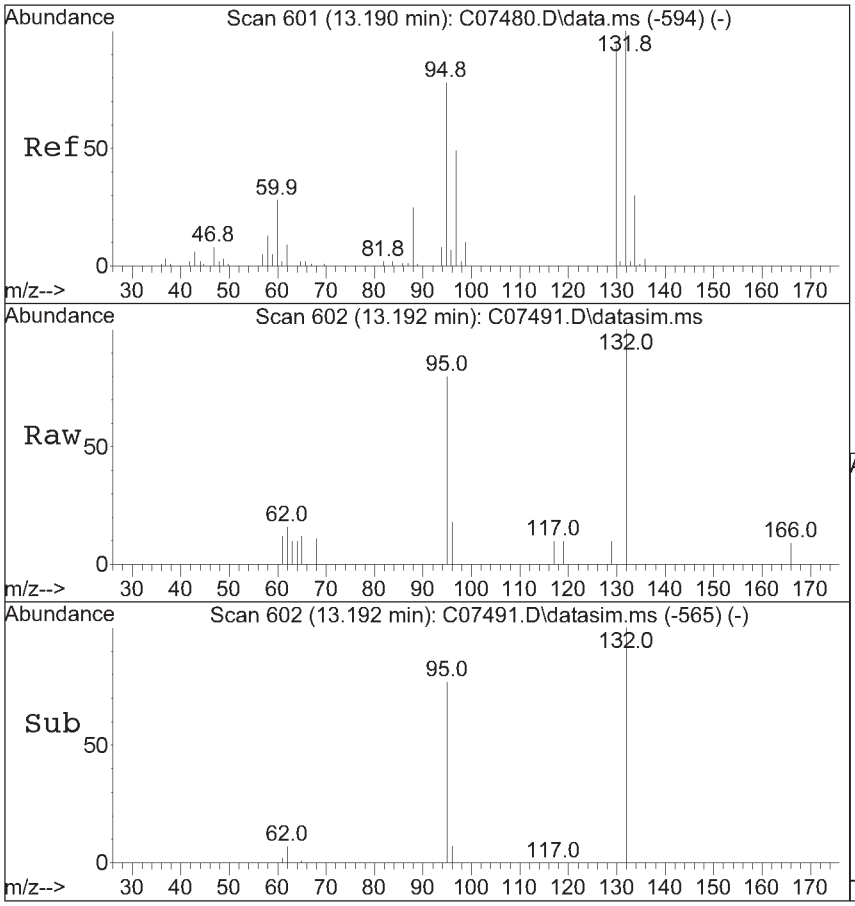


#40
TRICHLOROETHENE
Concen: 0.03 PPBv m
RT: 13.190 min Scan# 601
Delta R.T. -0.001 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 95 Resp: 8707

Ion	Ratio	Lower	Upper
95	100		
132	0.0	0.0	0.0
130	0.0	0.0	0.0

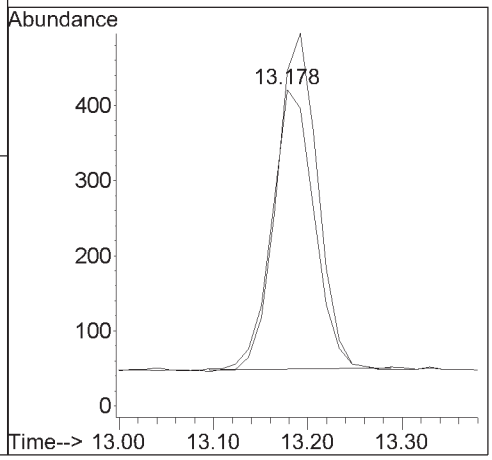


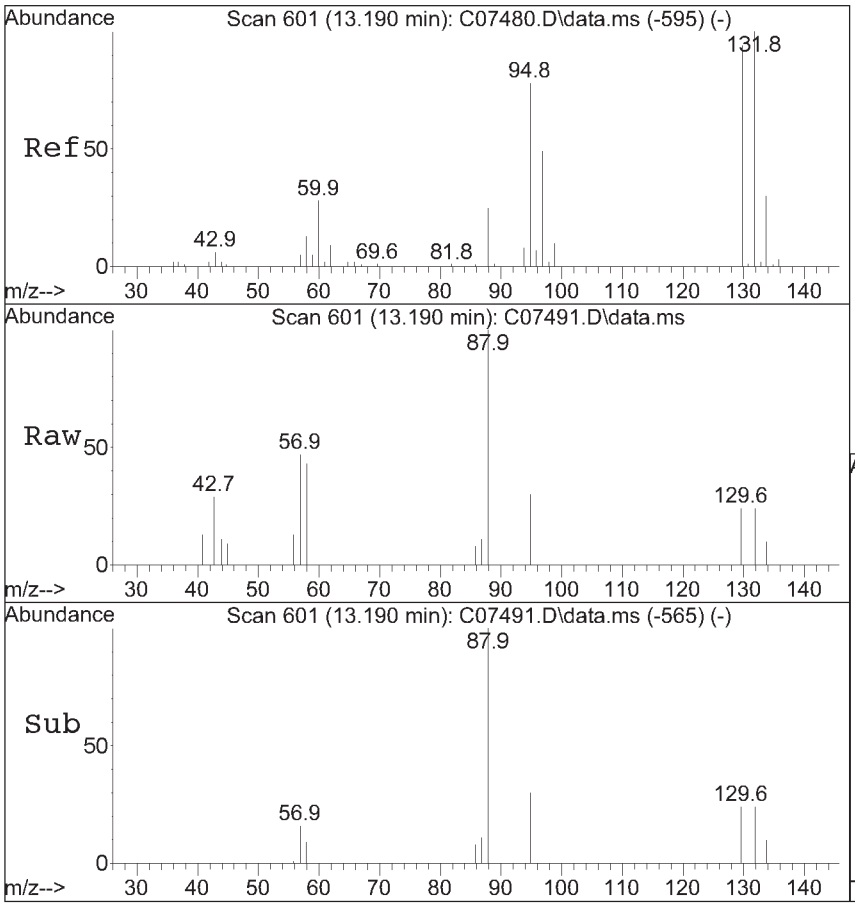


#41
TRICHLOROETHENE (SIM)
Concen: 0.02 PPBv
RT: 13.189 min Scan# 602
Delta R.T. 0.001 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 95 Resp: 11563

Ion	Ratio	Lower	Upper
95	100		
132	117.6	0.0	0.0#

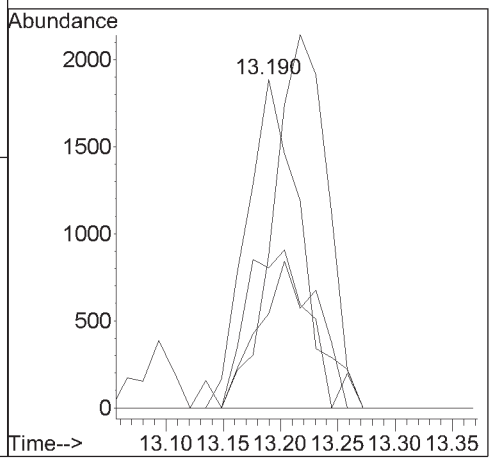


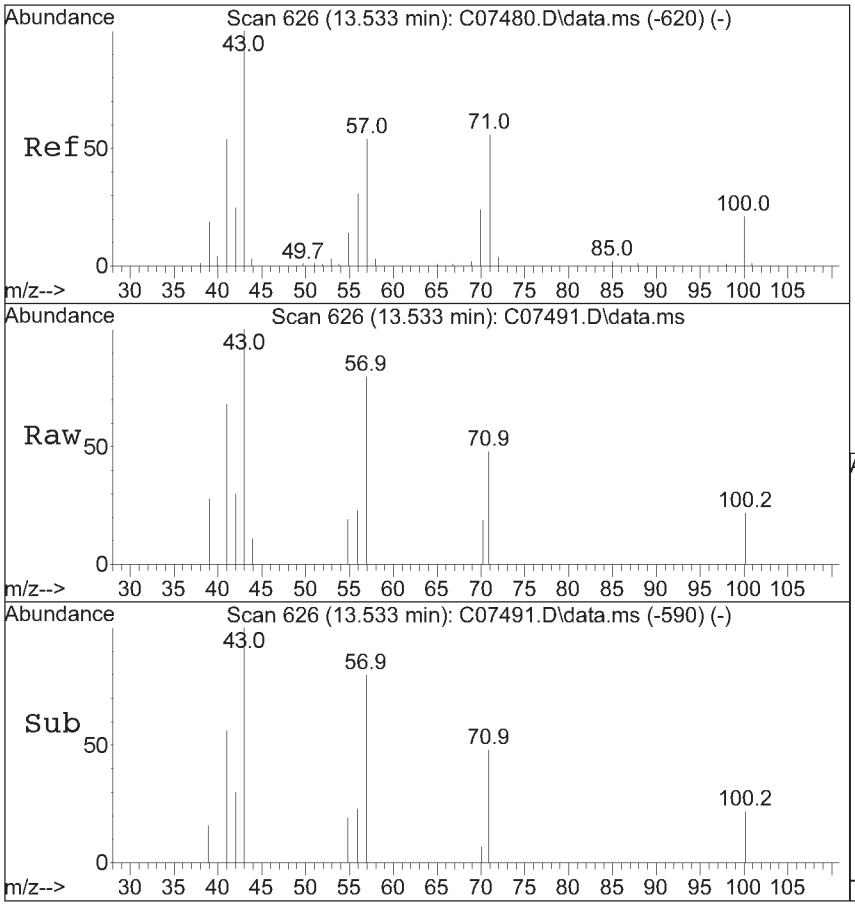


#42
1,4-DIOXANE
Concen: 0.51 PPBv
RT: 13.196 min Scan# 601
Delta R.T. 0.006 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 88 Resp: 62707

Ion	Ratio	Lower	Upper
88	100		
58	55.3	0.0	0.0#
57	0.0	0.0	0.0
43	0.0	0.0	0.0

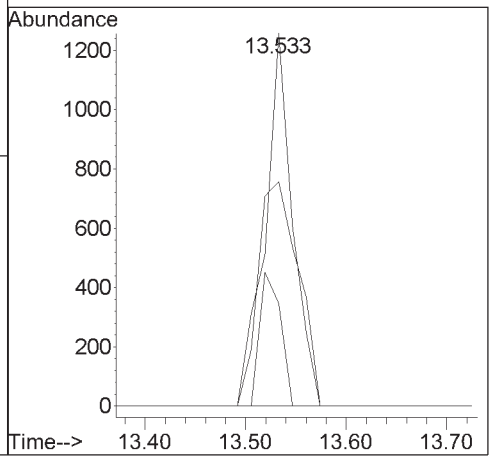


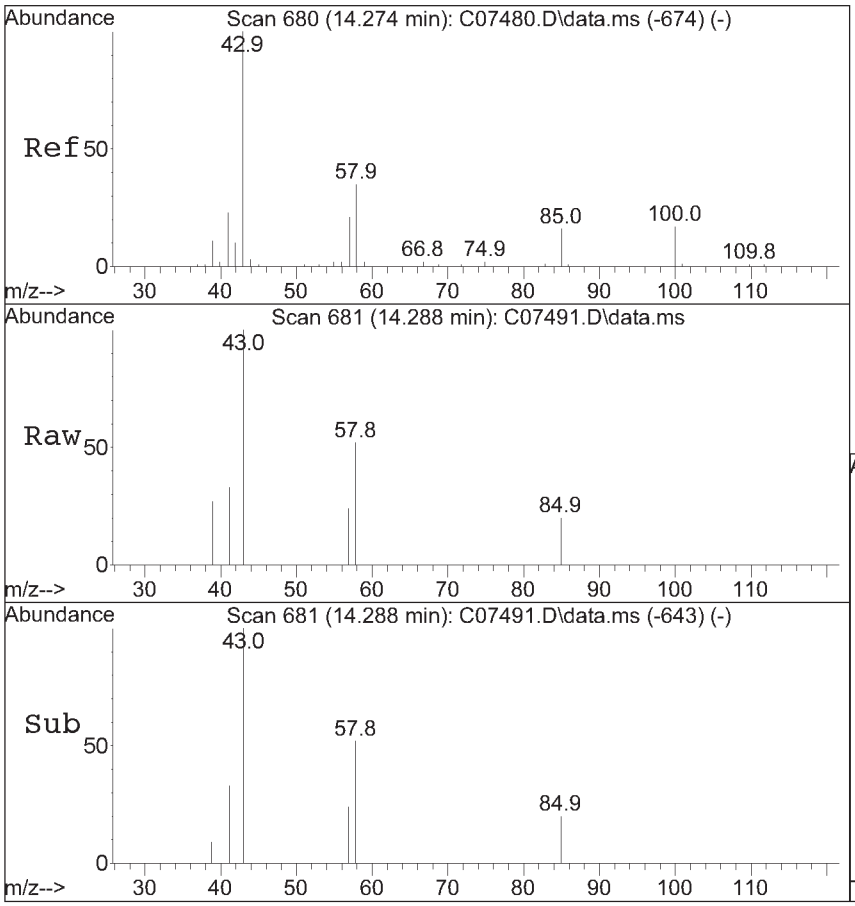


#43
HEPTANE
Concen: 0.11 PPBv m
RT: 13.533 min Scan# 626
Delta R.T. -0.002 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 57 Resp: 24151

Ion	Ratio	Lower	Upper
57	100		
71	0.0	0.0	0.0
100	0.0	0.0	0.0

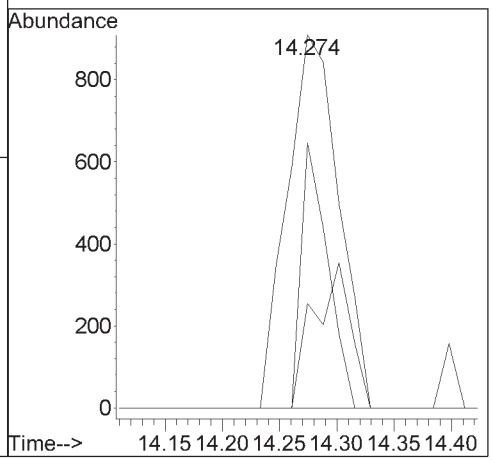


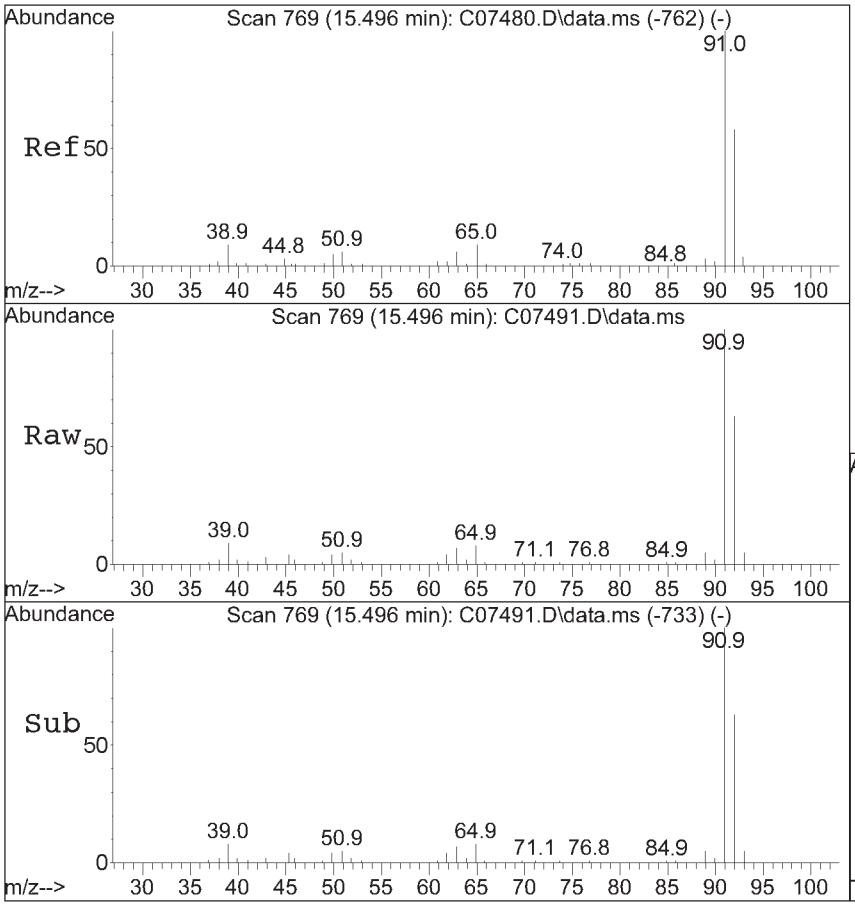


#44
MIBK
Concen: 0.05 PPBv
RT: 14.285 min Scan# 681
Delta R.T. 0.012 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 43 Resp: 28475

Ion	Ratio	Lower	Upper
43	100		
58	0.0	0.0	0.0
57	0.0	0.0	0.0
100	0.0	0.0	0.0

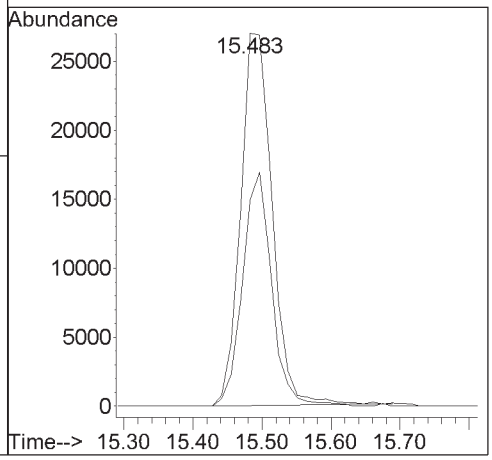


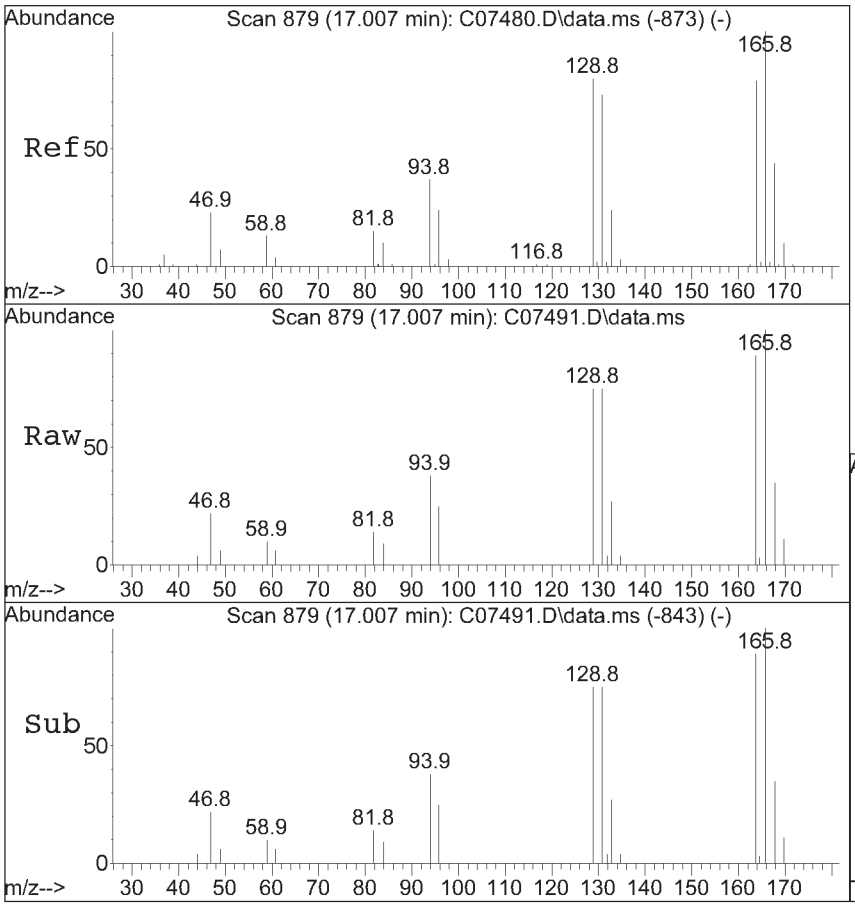


#48
TOLUENE
Concen: 0.97 PPBv
RT: 15.496 min Scan# 769
Delta R.T. -0.000 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 91 Resp: 855607

Ion	Ratio	Lower	Upper
91	100		
92	58.4	0.0	0.0#

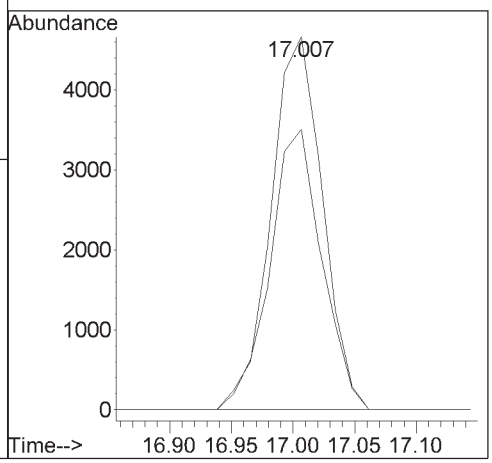


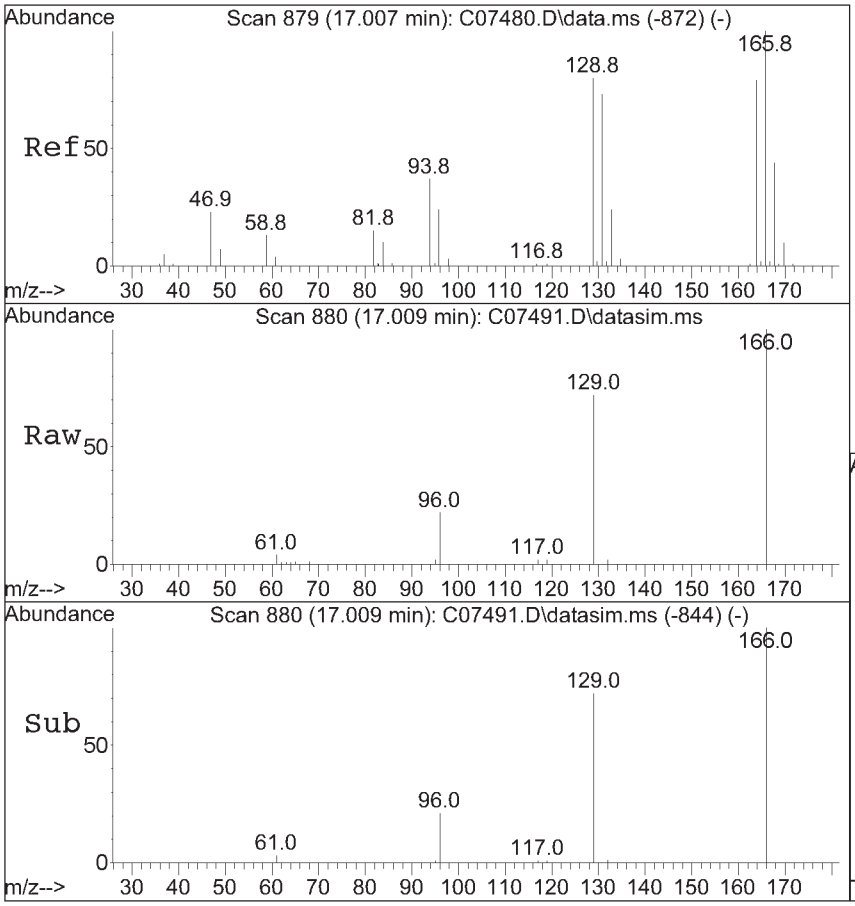


#52
TETRACHLOROETHENE
Concen: 0.30 PPBv
RT: 17.008 min Scan# 879
Delta R.T. 0.000 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:166 Resp: 135634

Ion	Ratio	Lower	Upper
166	100		
129	75.9	0.0	0.0#
138	0.0	0.0	0.0

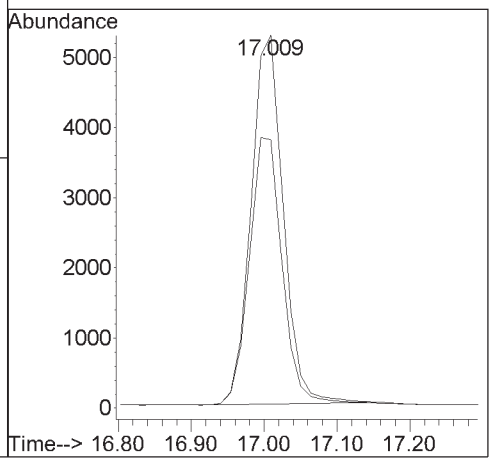


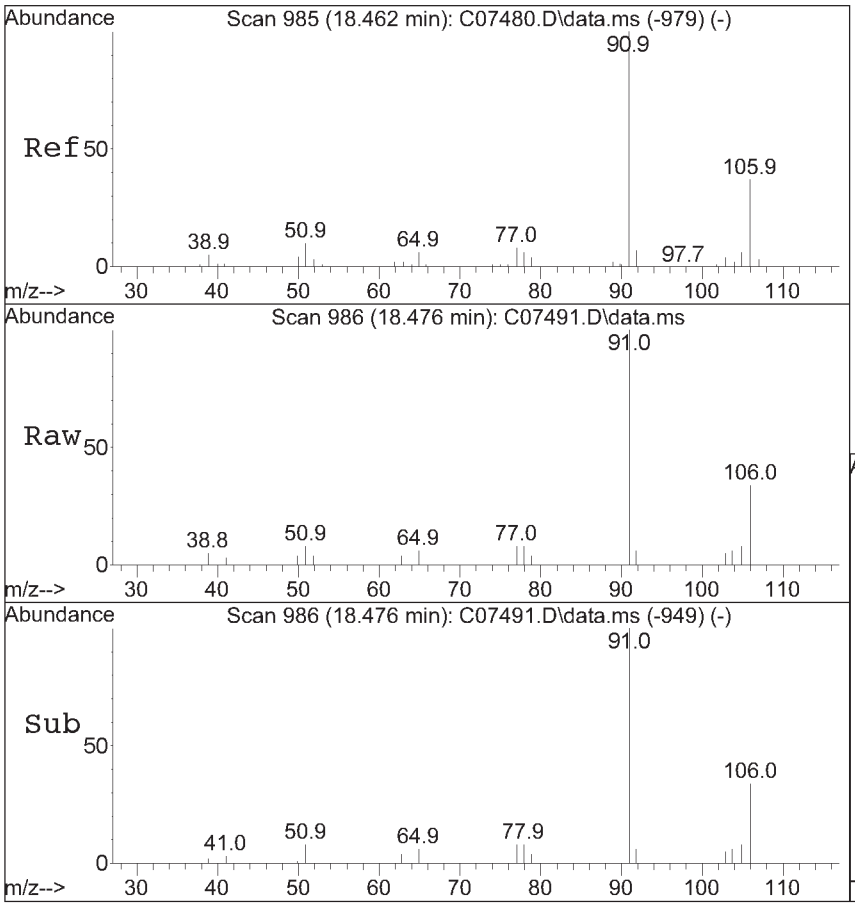


#53
TETRACHLOROETHENE (SIM)
Concen: 0.31 PPBv
RT: 17.009 min Scan# 880
Delta R.T. 0.000 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:166 Resp: 161221

Ion	Ratio	Lower	Upper
166	100		
129	73.6	0.0	0.0#

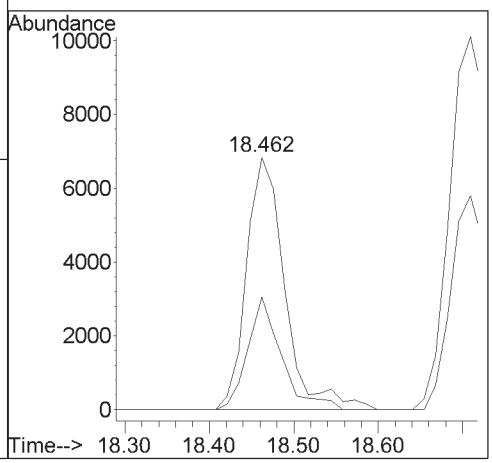


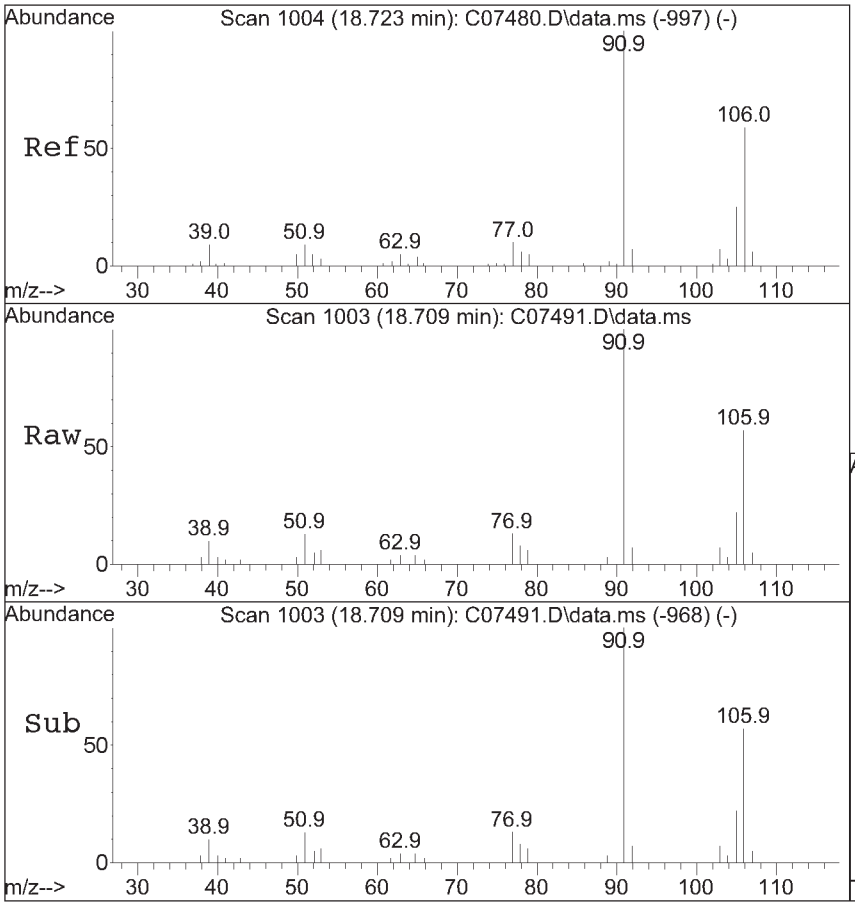


#57
ETHYLBENZENE
Concen: 0.25 PPBv
RT: 18.470 min Scan# 986
Delta R.T. 0.001 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion: 91 Resp: 216241

Ion	Ratio	Lower	Upper
91	100		
106	39.4	0.0	0.0#

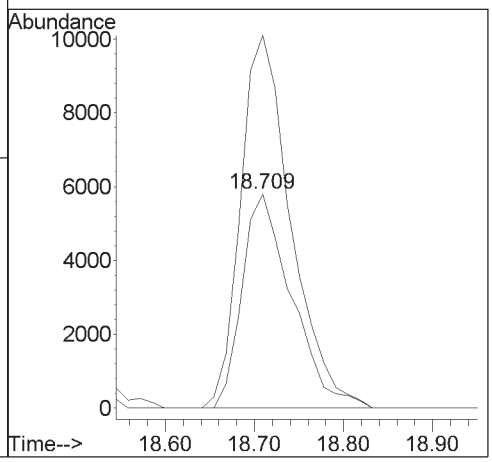


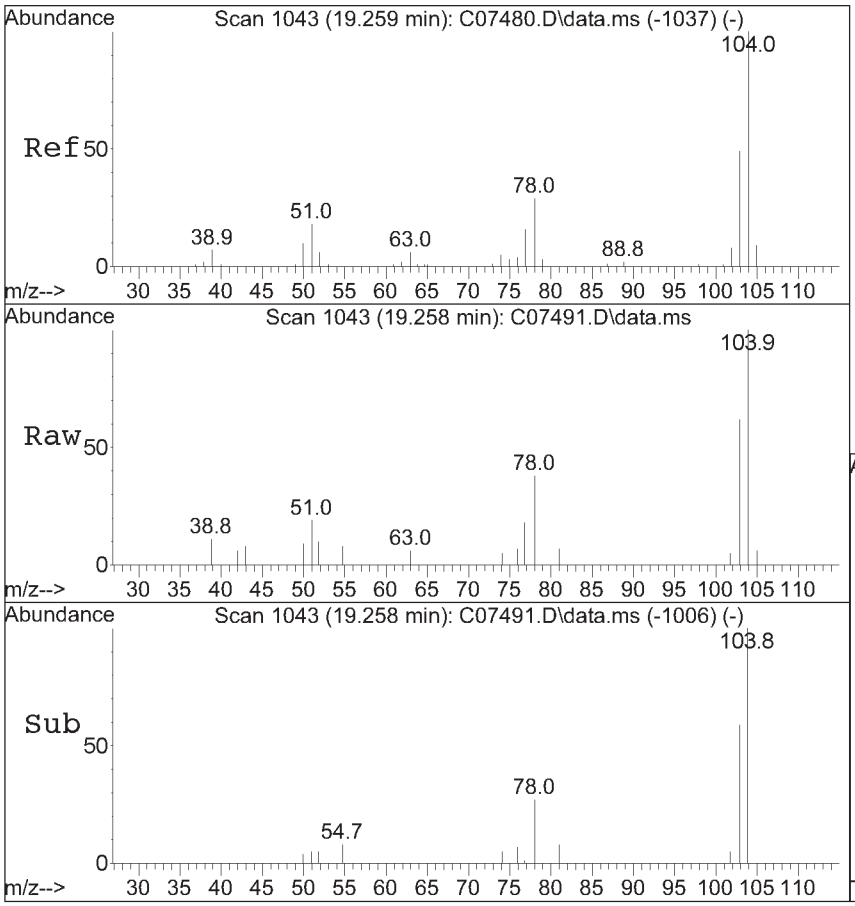


#58
M/P-XYLENE
Concen: 0.54 PPBv
RT: 18.713 min Scan# 1003
Delta R.T. -0.013 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:106 Resp: 225763

Ion	Ratio	Lower	Upper
106	100		
91	175.9	0.0	0.0#

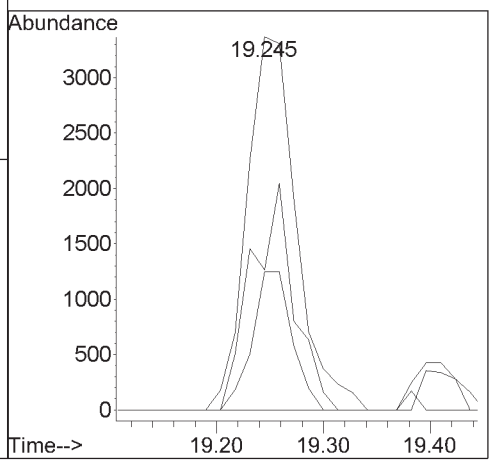


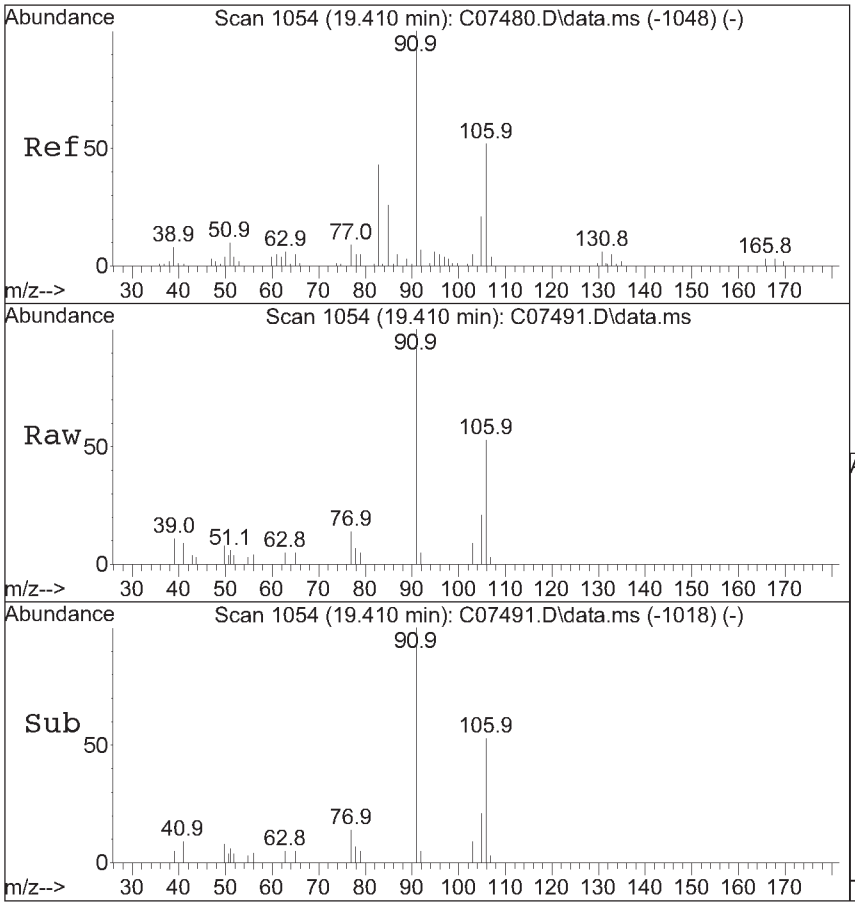


#60
STYRENE
Concen: 0.22 PPBv
RT: 19.256 min Scan# 1043
Delta R.T. 0.000 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:104 Resp: 108455

Ion	Ratio	Lower	Upper
104	100		
103	52.1	0.0	0.0#
78	30.0	0.0	0.0#

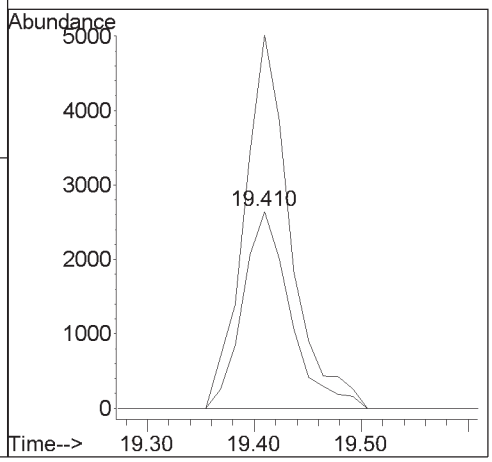


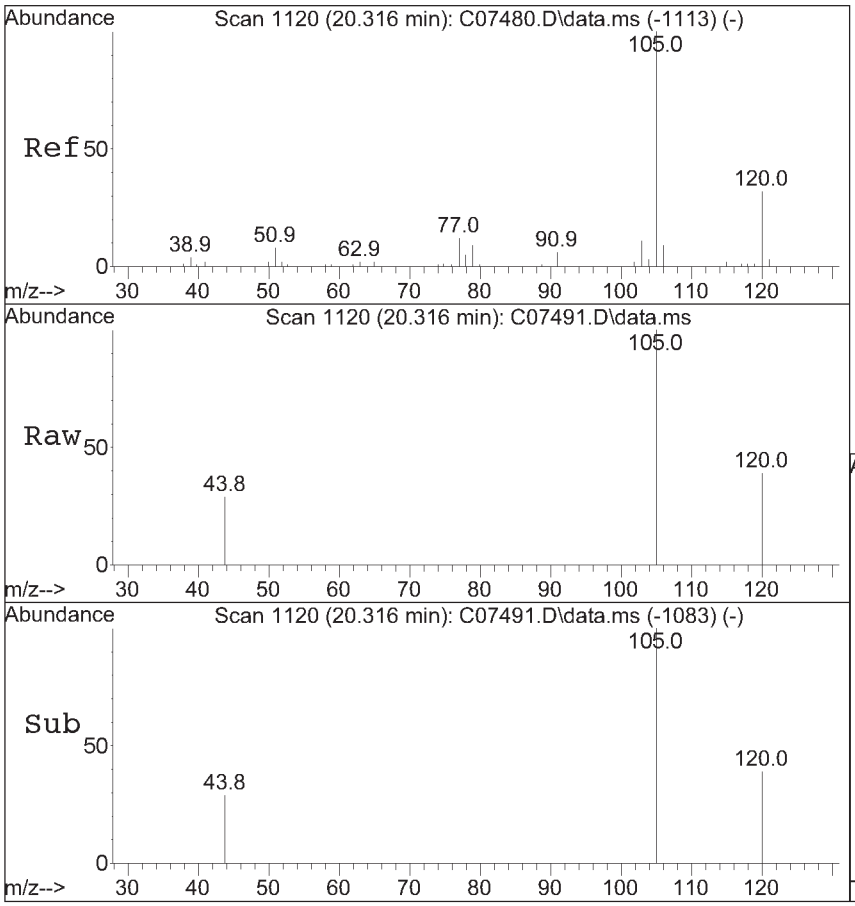


#61
O-XYLENE
Concen: 0.21 PPBv
RT: 19.414 min Scan# 1054
Delta R.T. -0.003 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:106 Resp: 81758

Ion	Ratio	Lower	Upper
106	100		
91	183.9	0.0	0.0#

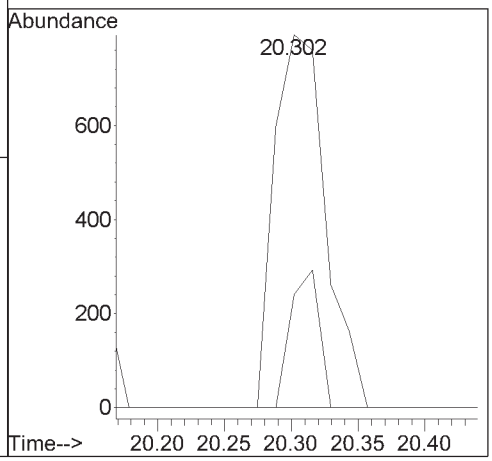


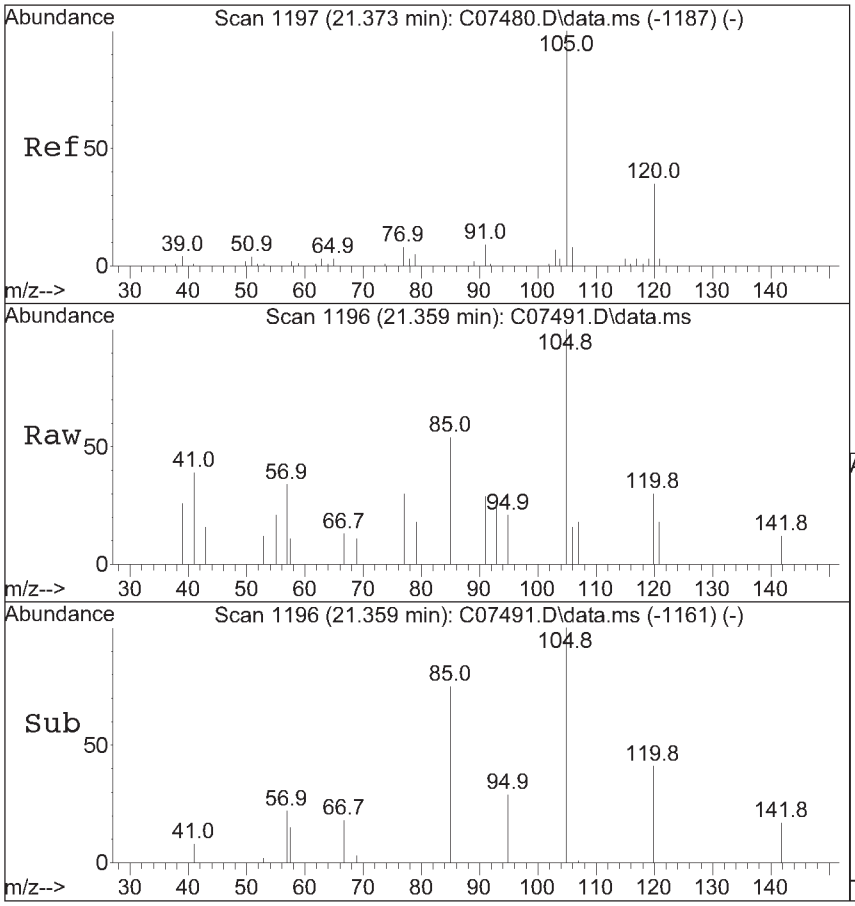


#64
ISOPROPYLBENZENE
Concen: 0.02 PPBv
RT: 20.311 min Scan# 1120
Delta R.T. -0.001 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:105 Resp: 21207

Ion	Ratio	Lower	Upper
105	100		
120	0.0	0.0	0.0
103	0.0	0.0	0.0
51	0.0	0.0	0.0

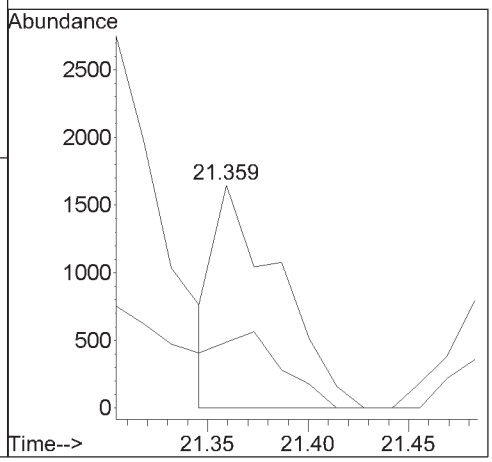


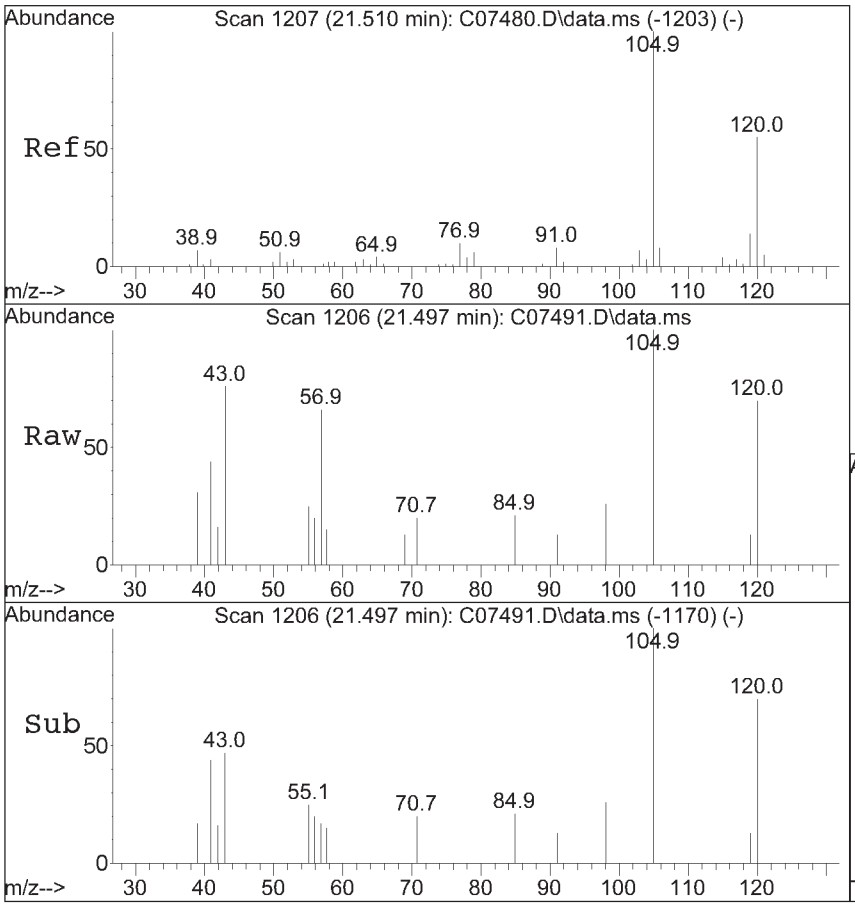


#65
4-ETHYLTOLUENE
Concen: 0.04 PPBv m
RT: 21.359 min Scan# 1196
Delta R.T. -0.018 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:105 Resp: 35799

Ion	Ratio	Lower	Upper
105	100		
120	76.7	0.0	0.0#

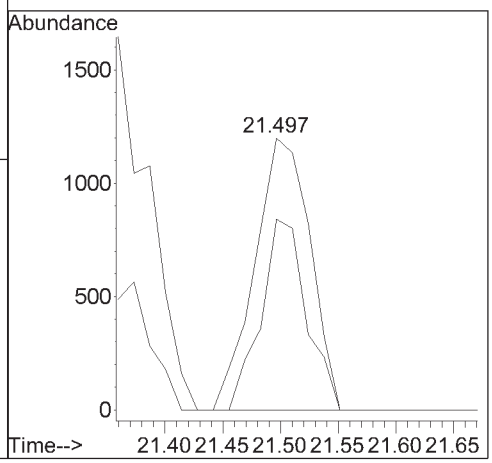


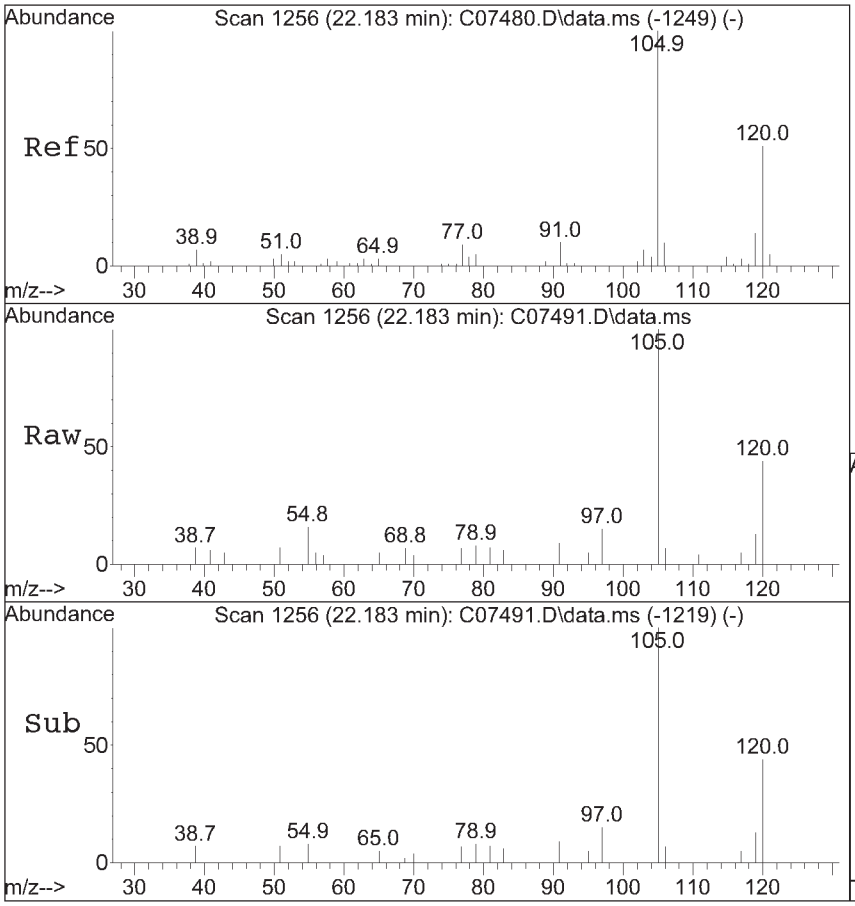


#66
1,3,5-TRIMETHYLBENZENE
Concen: 0.05 PPBv m
RT: 21.497 min Scan# 1206
Delta R.T. -0.010 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:105 Resp: 39951

Ion	Ratio	Lower	Upper
105	100		
120	0.0	0.0	0.0

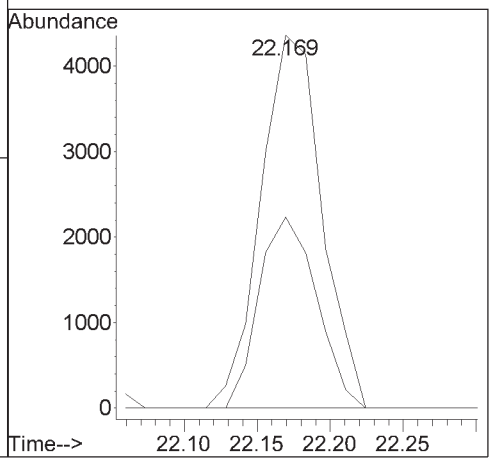




#67
1,2,4-TRIMETHYLBENZENE
Concen: 0.17 PPBv
RT: 22.179 min Scan# 1256
Delta R.T. 0.000 min
Lab File: C07491.D
Acq: 10 Mar 2011 8:33 pm

Tgt Ion:105 Resp: 127513

Ion	Ratio	Lower	Upper
105	100		
120	48.3	0.0	0.0#



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

SG-2-030311

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-11	File ID:	A39614.D
Sampled:	03/03/11 10:32			Analyzed:	03/08/11 21:40
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104127	Sequence:	S101712	Calibration:	1103003
				Instrument:	Air1

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
115-07-1	Propene	1.76	3.03	
75-71-8	Dichlorodifluoromethane (Freon12)	0.660	3.26	
74-87-3	Chloromethane	0.455	0.94	U
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.390	2.73	U
75-01-4	Vinyl chloride	0.278	0.71	U
106-99-0	1,3-Butadiene	0.149	0.33	U
74-83-9	Bromomethane	0.249	0.97	U
75-00-3	Chloroethane	0.219	0.58	U
67-64-1	Acetone	4.39	10.43	
75-69-4	Trichlorofluoromethane (Freon 11)	0.379	2.13	U
64-17-5	Ethanol	0.440	0.83	U
75-35-4	1,1-Dichloroethene	0.163	0.65	U
107-13-1	Acrylonitrile	0.0700	0.15	U
75-09-2	Methylene chloride	0.129	0.45	U
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.202	1.55	U
75-15-0	Carbon disulfide	0.185	0.58	U
156-60-5	trans-1,2-Dichloroethene	0.0660	0.26	U
75-34-3	1,1-Dichloroethane	0.150	0.61	U
1634-04-4	Methyl tert-butyl ether	0.0780	0.28	U
67-63-0	Isopropyl alcohol	0.212	0.52	U
78-93-3	2-Butanone (MEK)	0.420	1.24	J
156-59-2	cis-1,2-Dichloroethene	0.101	0.40	U
110-54-3	Hexane	0.660	2.33	
141-78-6	Ethyl acetate	0.334	1.20	U
67-66-3	Chloroform	0.270	1.31	J
109-99-9	Tetrahydrofuran	0.167	0.49	U
107-06-2	1,2-Dichloroethane	0.162	0.66	U
71-55-6	1,1,1-Trichloroethane	0.159	0.87	U
71-43-2	Benzene	0.750	2.39	
56-23-5	Carbon tetrachloride	0.176	1.11	U
110-82-7	Cyclohexane	0.0640	0.22	U
78-87-5	1,2-Dichloropropane	0.0730	0.34	U
75-27-4	Bromodichloromethane	0.127	0.85	U
79-01-6	Trichloroethene	0.0800	0.43	U
123-91-1	1,4-Dioxane	0.0870	0.31	U
142-82-5	n-Heptane	0.284	1.16	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.132	0.54	U
10061-01-5	cis-1,3-Dichloropropene	0.104	0.47	U
10061-02-6	trans-1,3-Dichloropropene	0.0670	0.30	U
79-00-5	1,1,2-Trichloroethane	0.125	0.68	U

FORM I - AIR ANALYSIS DATA SHEET

EPA TO-15

SG-2-030311

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Soil Gas	Laboratory ID:	SB25245-11	File ID:	A39614.D
Sampled:	03/03/11 10:32			Analyzed:	03/08/11 21:40
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104127	Sequence:	S101712	Calibration:	1103003
Instrument:	Air1				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
108-88-3	Toluene	56.5	212.60	
591-78-6	2-Hexanone (MBK)	0.106	0.43	U
124-48-1	Dibromochloromethane	0.130	1.11	U
106-93-4	1,2-Dibromoethane (EDB)	0.0890	0.68	U
127-18-4	Tetrachloroethene	0.350	2.37	J
108-90-7	Chlorobenzene	0.132	0.61	U
100-41-4	Ethylbenzene	0.240	1.04	J
630-20-6	1,1,1,2-Tetrachloroethane	0.164	1.13	U
179601-23-1	m,p-Xylene	0.470	2.04	J
75-25-2	Bromoform	0.153	1.58	U
100-42-5	Styrene	0.0500	0.21	U
95-47-6	o-Xylene	0.110	0.48	U
79-34-5	1,1,2,2-Tetrachloroethane	0.170	1.17	U
108-67-8	1,3,5-Trimethylbenzene	0.211	1.04	U
622-96-8	4-Ethyltoluene	0.0940	0.46	U
95-63-6	1,2,4-Trimethylbenzene	0.0890	0.44	U
98-82-8	Isopropylbenzene	0.0930	0.46	U
541-73-1	1,3-Dichlorobenzene	0.124	0.75	U
100-44-7	Benzyl chloride	0.164	0.85	U
106-46-7	1,4-Dichlorobenzene	0.170	1.02	U
91-20-3	Naphthalene	0.183	0.96	U
95-50-1	1,2-Dichlorobenzene	0.150	0.90	U
120-82-1	1,2,4-Trichlorobenzene	0.335	2.49	U
87-68-3	Hexachlorobutadiene	0.140	1.49	U
135-98-8	sec-Butylbenzene	0.125	0.69	U
99-87-6	4-Isopropyltoluene	0.0880	0.47	U
104-51-8	n-Butylbenzene	0.0930	0.51	U

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\030811\A39614.D Vial: 14
Acq On : 8 Mar 2011 9:40 pm Operator: KG
Sample : sb25245-11 @ sg-2 1x to-15 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 9 17:26 2011 Quant Results File: T1022411.RES

Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

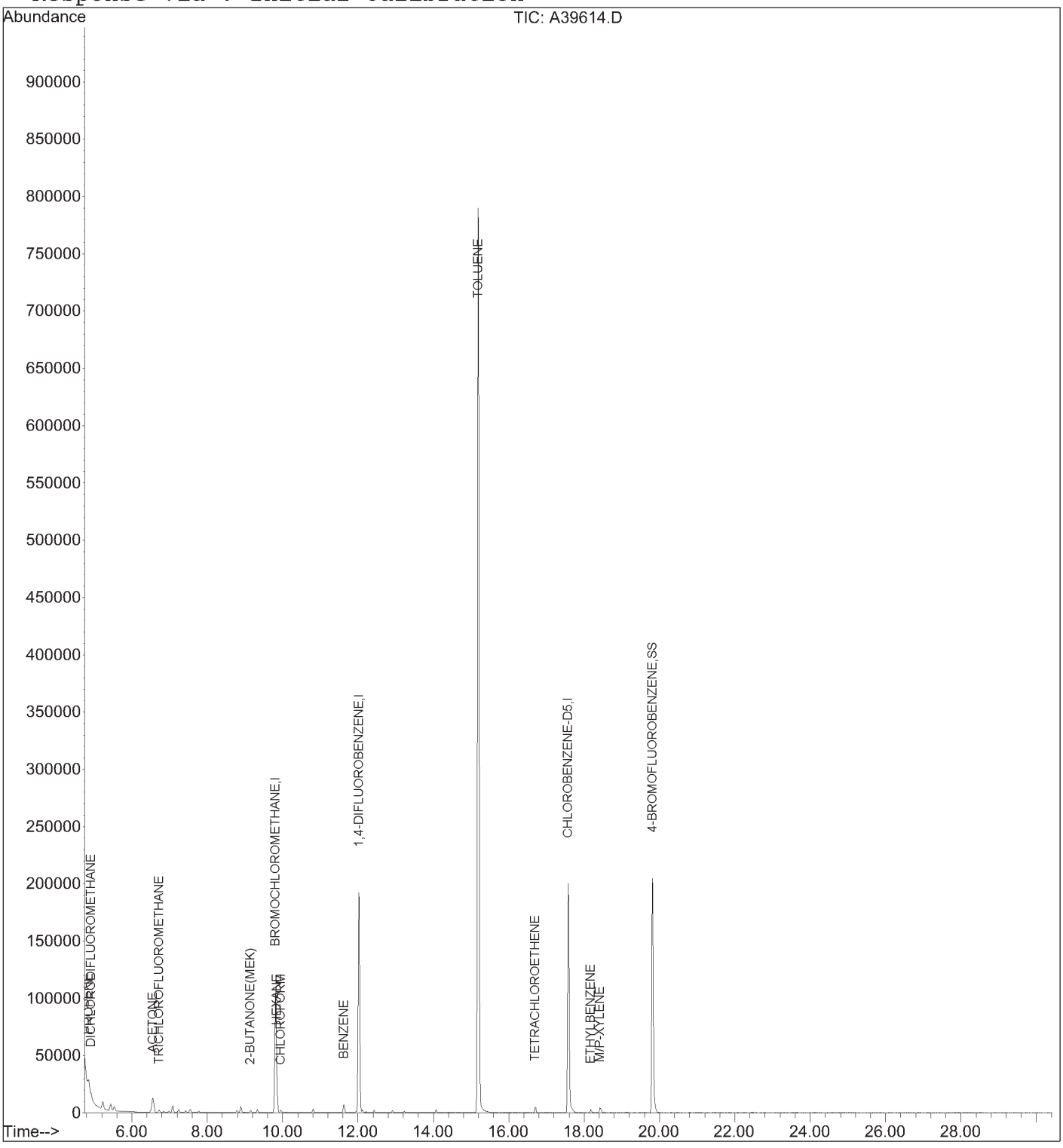
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.81	128	454618	10.00	PPBv	0.00
33) 1,4-DIFLUOROBENZENE	12.02	114	2257138	10.00	PPBv	0.00
48) CHLOROBENZENE-D5	17.58	82	1079653	10.00	PPBv	-0.02
System Monitoring Compounds						
57) 4-BROMOFLUOROBENZENE	19.81	95	1224941	10.17	PPBv	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.70%			
Target Compounds						Qvalue
2) PROPENE	4.85	42	45106	1.76	PPBv #	79
3) DICHLORODIFLUOROMETHANE	4.92	85	79865	0.66	PPBv #	49
10) ACETONE	6.55	58	62358	4.39	PPBv	90
11) TRICHLOROFLUOROMETHANE	6.72	101	30513	0.33	PPBv #	18
22) 2-BUTANONE(MEK)	9.15	72	9649m	0.42	PPBv	
24) HEXANE	9.85	57	45993	0.66	PPBv #	13
26) CHLOROFORM	9.96	83	25509m	0.27	PPBv	
30) BENZENE	11.63	78	105414	0.75	PPBv	100
43) TOLUENE	15.19	91	9112935	56.50	PPBv	100
47) TETRACHLOROETHENE	16.71	166	27327m	0.35	PPBv	
51) ETHYLBENZENE	18.18	91	45516	0.24	PPBv #	42
52) M/P-XYLENE	18.42	106	34822	0.47	PPBv	89

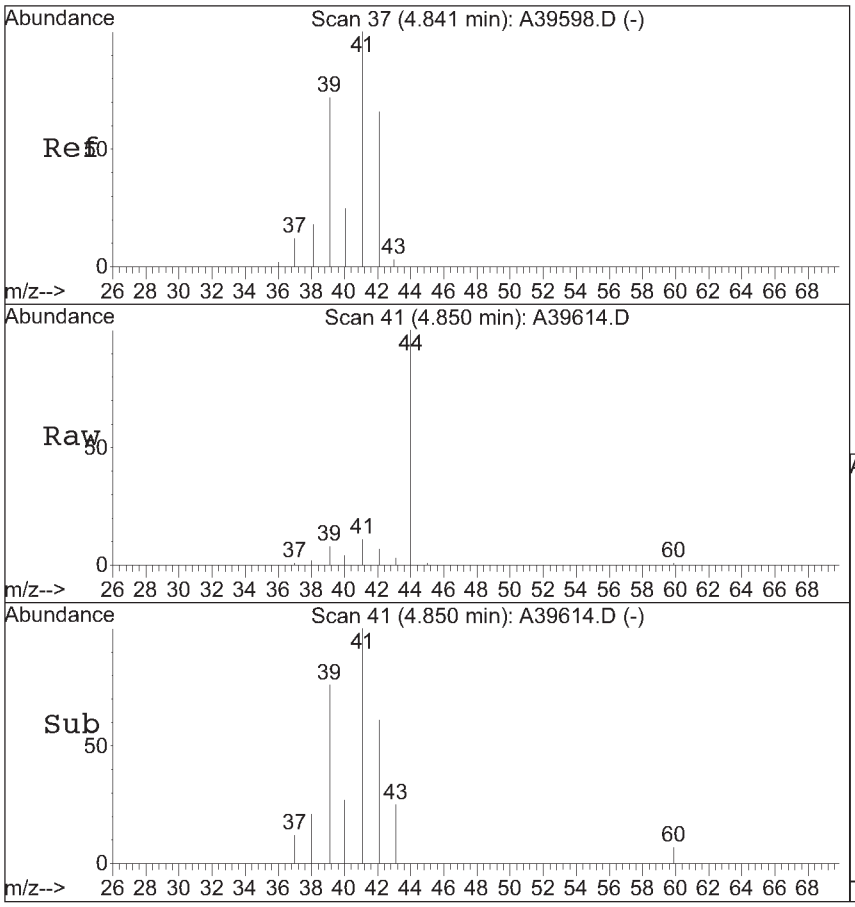
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030811\A39614.D Vial: 14
Acq On : 8 Mar 2011 9:40 pm Operator: KG
Sample : sb25245-11 @ sg-2 1x to-15 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 9 17:26 2011 Quant Results File: T1022411.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration

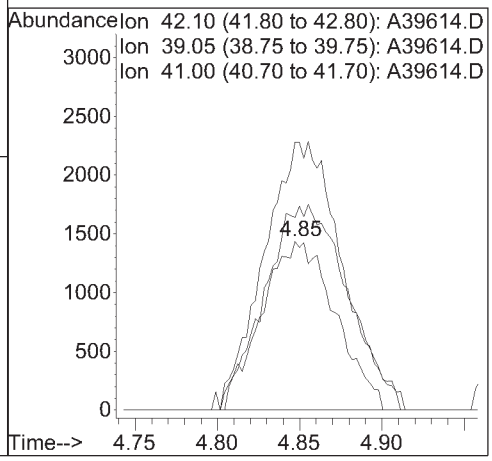


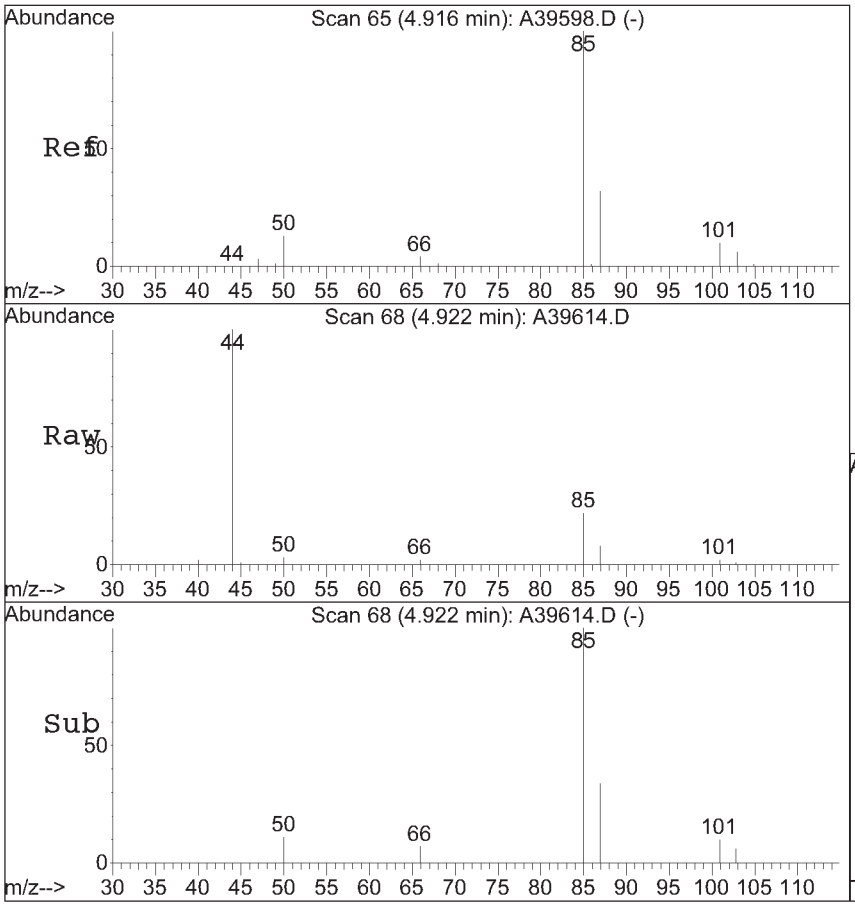


#2
PROPENE
Concen: 1.76 PPBv
RT: 4.85 min Scan# 41
Delta R.T. 0.01 min
Lab File: A39614.D
Acq: 8 Mar 2011 9:40 pm

Tgt Ion: 42 Resp: 45106

Ion	Ratio	Lower	Upper
42	100		
39	135.2	83.8	125.6#
41	167.6	118.4	177.6

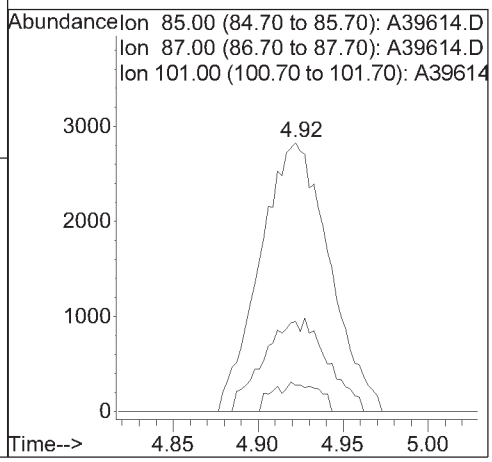


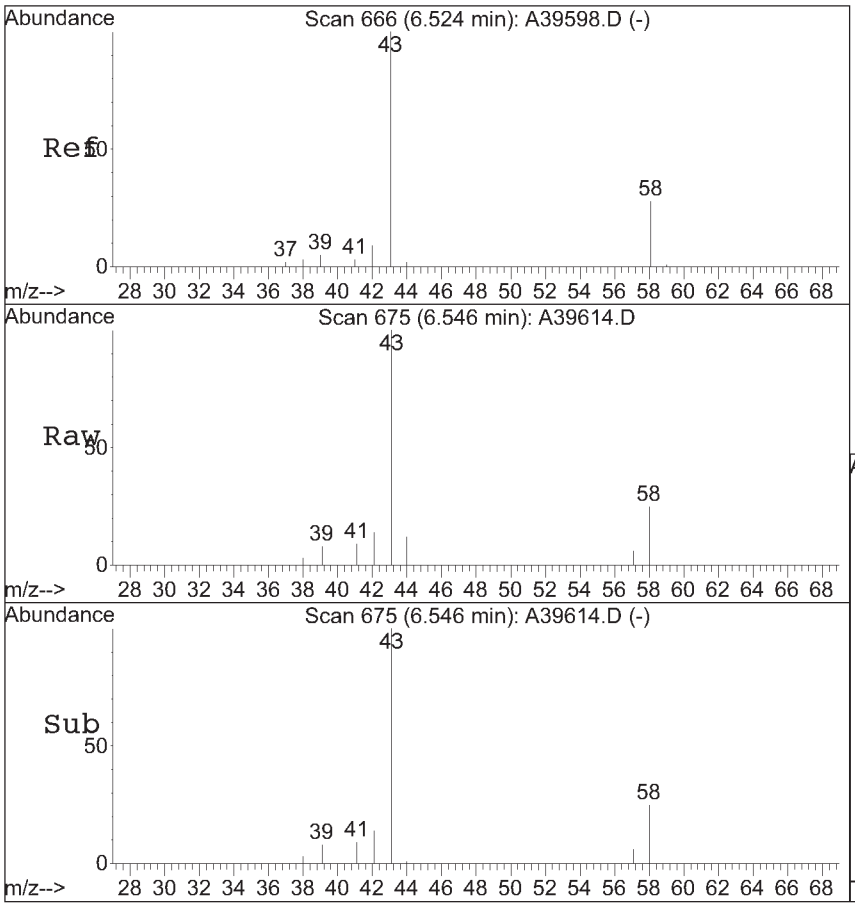


#3
DICHLORODIFLUOROMETHANE
Concen: 0.66 PPBv
RT: 4.92 min Scan# 68
Delta R.T. 0.01 min
Lab File: A39614.D
Acq: 8 Mar 2011 9:40 pm

Tgt Ion: 85 Resp: 79865

Ion	Ratio	Lower	Upper
85	100		
87	0.0	26.1	39.1#
101	0.0	7.4	11.0#

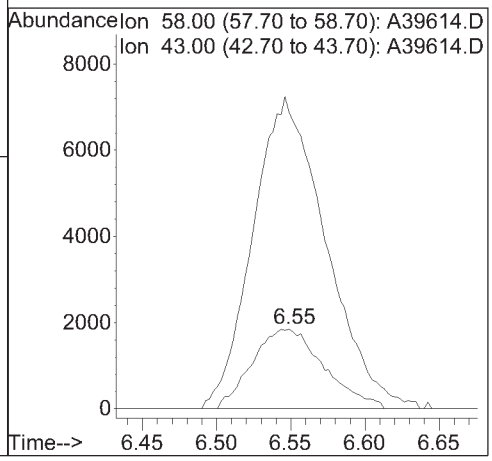


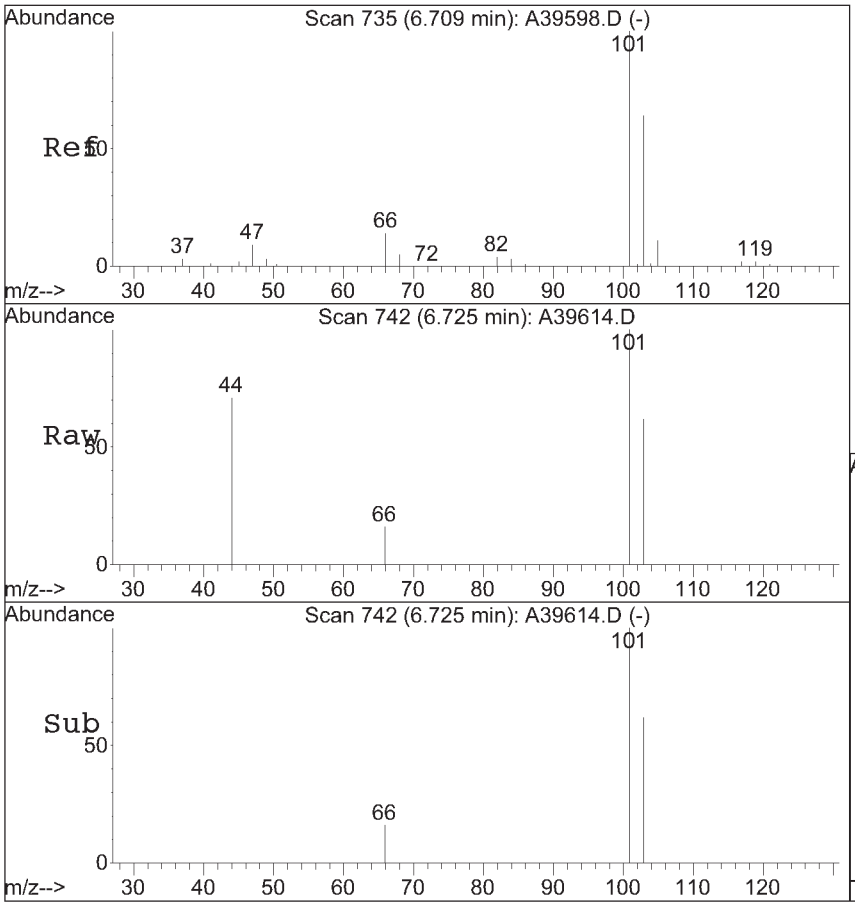


#10
ACETONE
Concen: 4.39 PPBv
RT: 6.55 min Scan# 675
Delta R.T. 0.02 min
Lab File: A39614.D
Acq: 8 Mar 2011 9:40 pm

Tgt Ion: 58 Resp: 62358

Ion	Ratio	Lower	Upper
58	100		
43	398.2	300.2	450.4

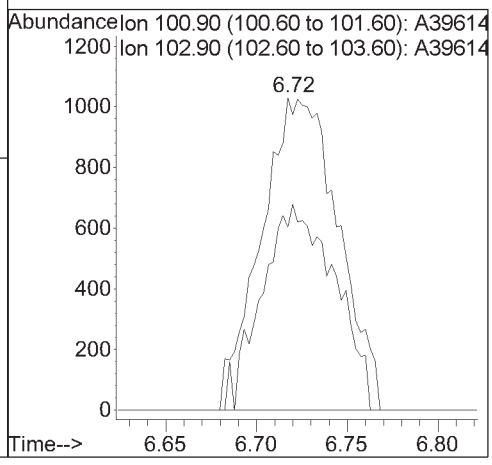


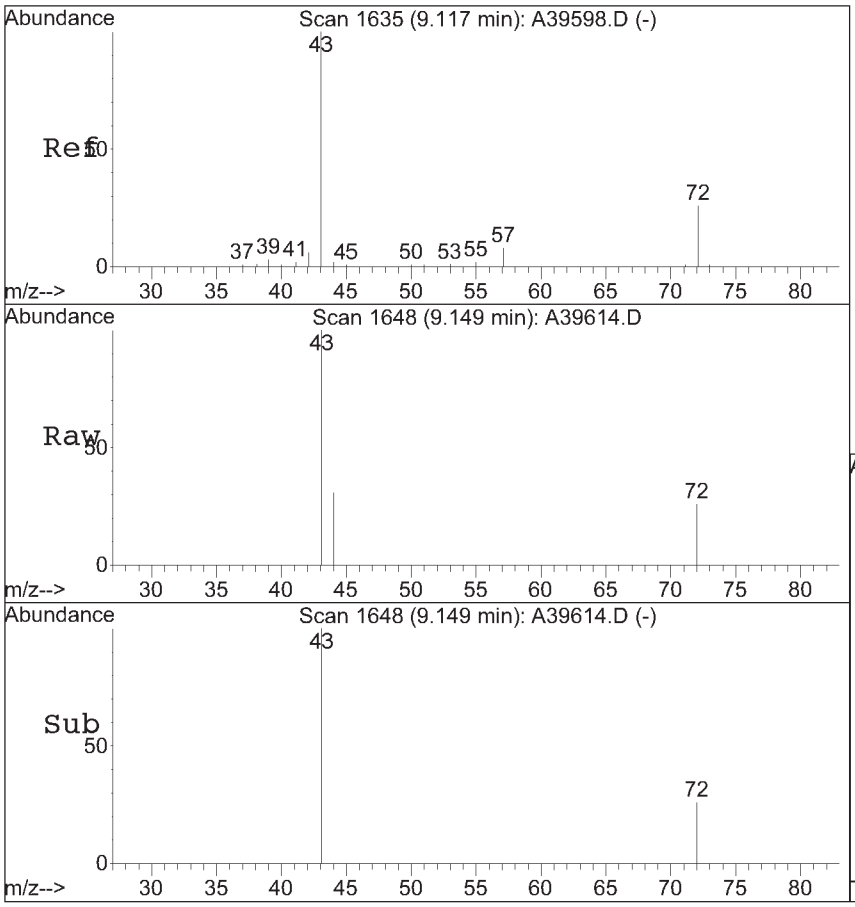


#11
TRICHLOROFLUOROMETHANE
Concen: 0.33 PPBv
RT: 6.72 min Scan# 742
Delta R.T. 0.01 min
Lab File: A39614.D
Acq: 8 Mar 2011 9:40 pm

Tgt Ion:101 Resp: 30513

Ion	Ratio	Lower	Upper
101	100		
103	0.0	51.8	77.6#

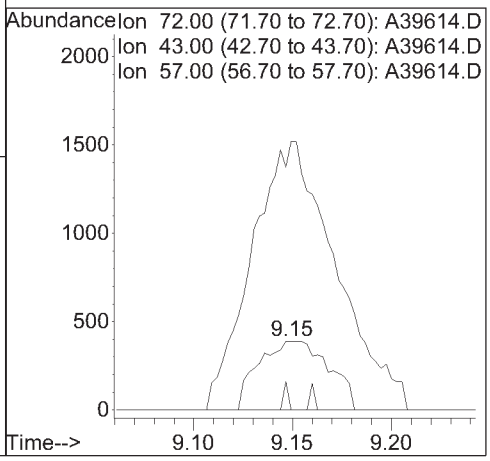


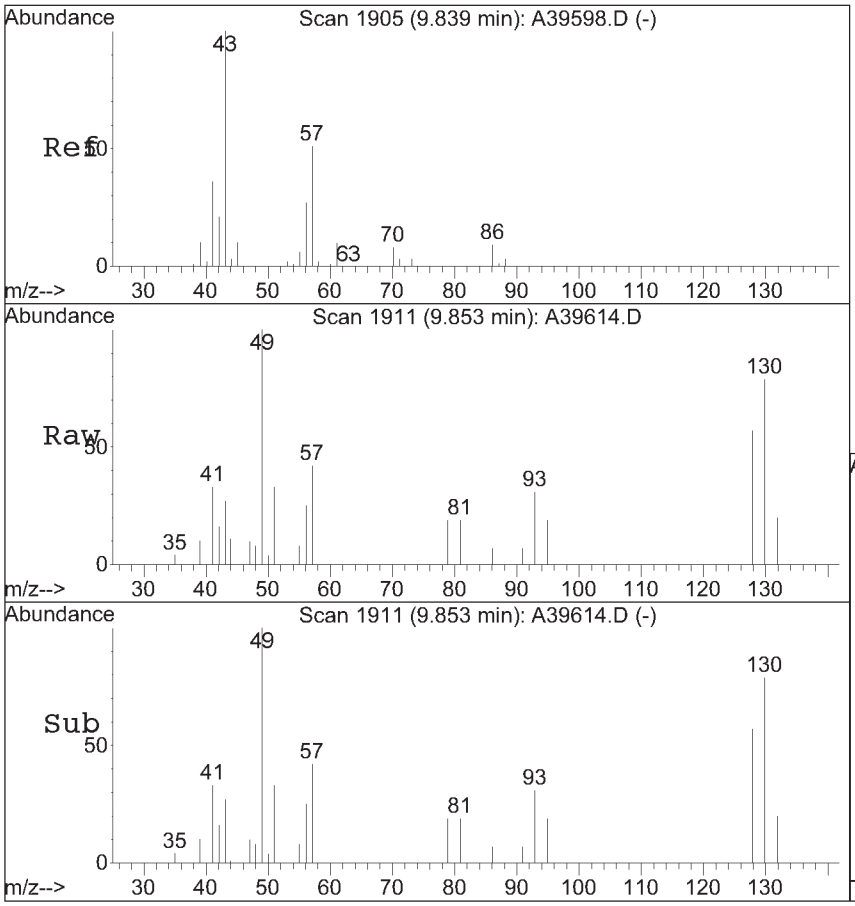


#22
2-BUTANONE(MEK)
Concen: 0.42 PPBv m
RT: 9.15 min Scan# 1648
Delta R.T. 0.01 min
Lab File: A39614.D
Acq: 8 Mar 2011 9:40 pm

Tgt Ion: 72 Resp: 9649

Ion	Ratio	Lower	Upper
72	100		
43	0.0	222.2	333.4#
57	0.0	987.4	1481.0#

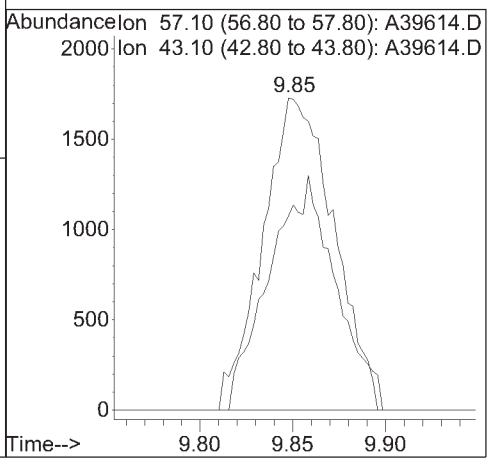


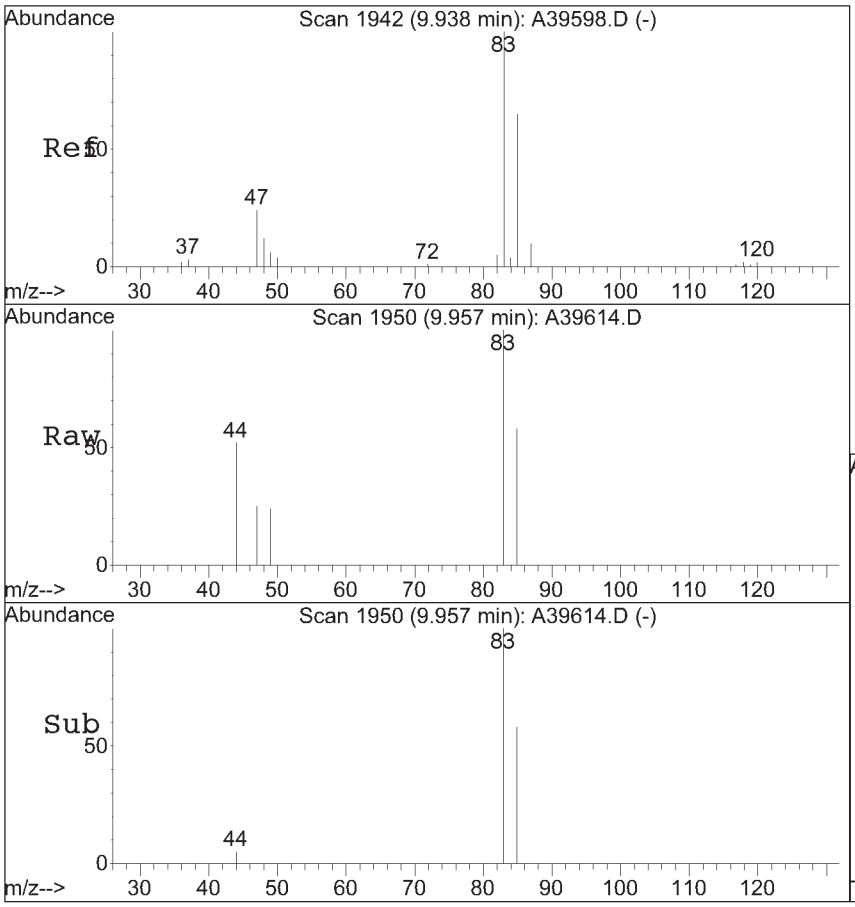


#24
HEXANE
Concen: 0.66 PPBv
RT: 9.85 min Scan# 1911
Delta R.T. -0.00 min
Lab File: A39614.D
Acq: 8 Mar 2011 9:40 pm

Tgt Ion: 57 Resp: 45993

Ion	Ratio	Lower	Upper
57	100		
43	70.8	163.9	245.9#

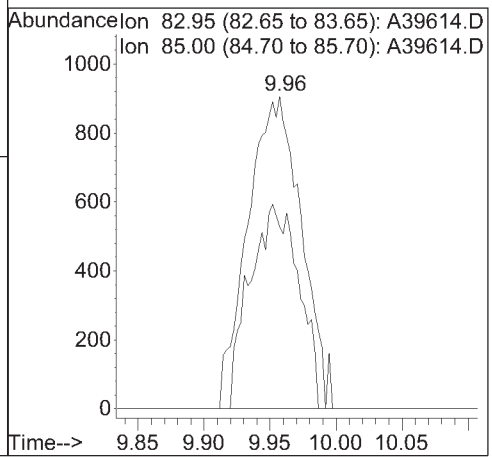


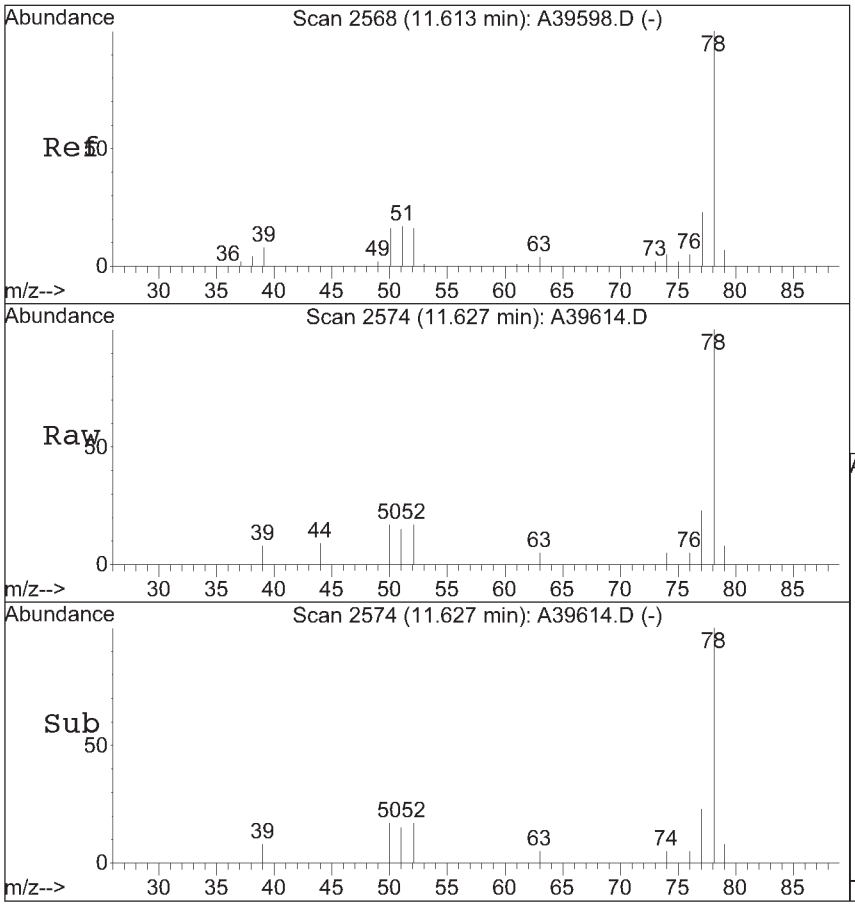


#26
CHLOROFORM
Concen: 0.27 PPBv m
RT: 9.96 min Scan# 1950
Delta R.T. -0.00 min
Lab File: A39614.D
Acq: 8 Mar 2011 9:40 pm

Tgt Ion: 83 Resp: 25509

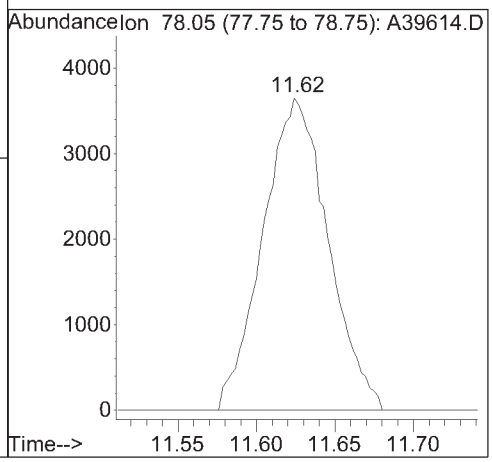
Ion	Ratio	Lower	Upper
83	100		
85	0.0	52.1	78.1#

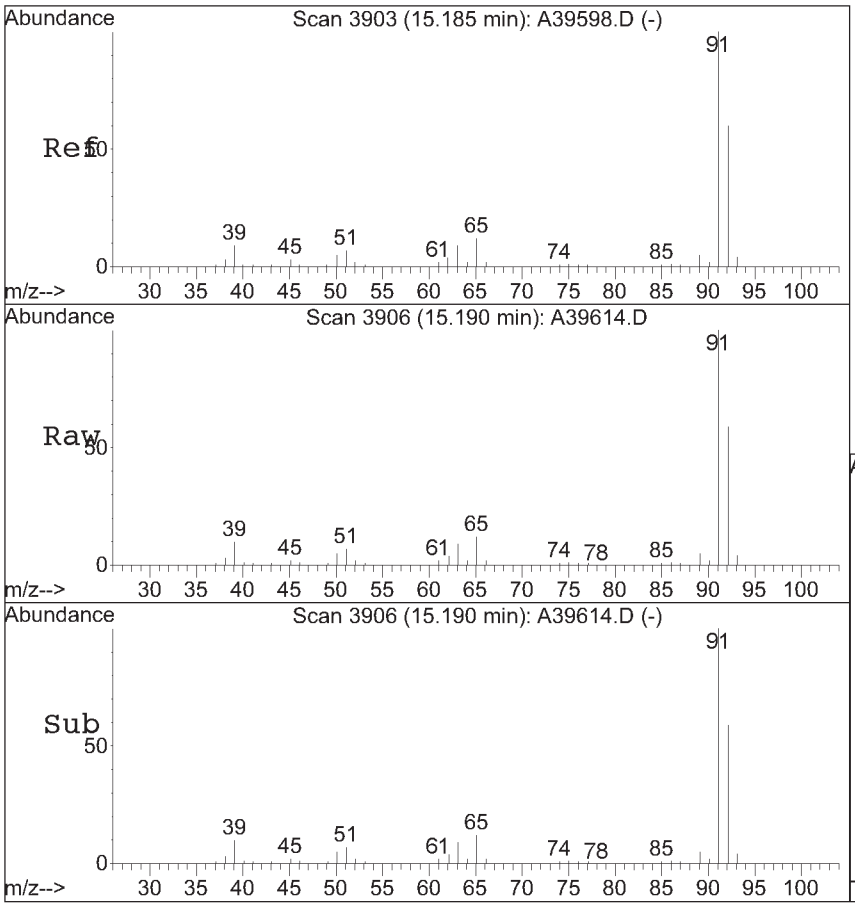




#30
BENZENE
Concen: 0.75 PPBv
RT: 11.63 min Scan# 2574
Delta R.T. -0.01 min
Lab File: A39614.D
Acq: 8 Mar 2011 9:40 pm

Tgt Ion: 78 Resp: 105414

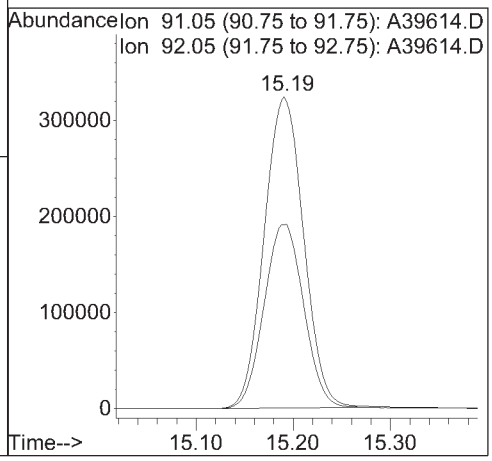


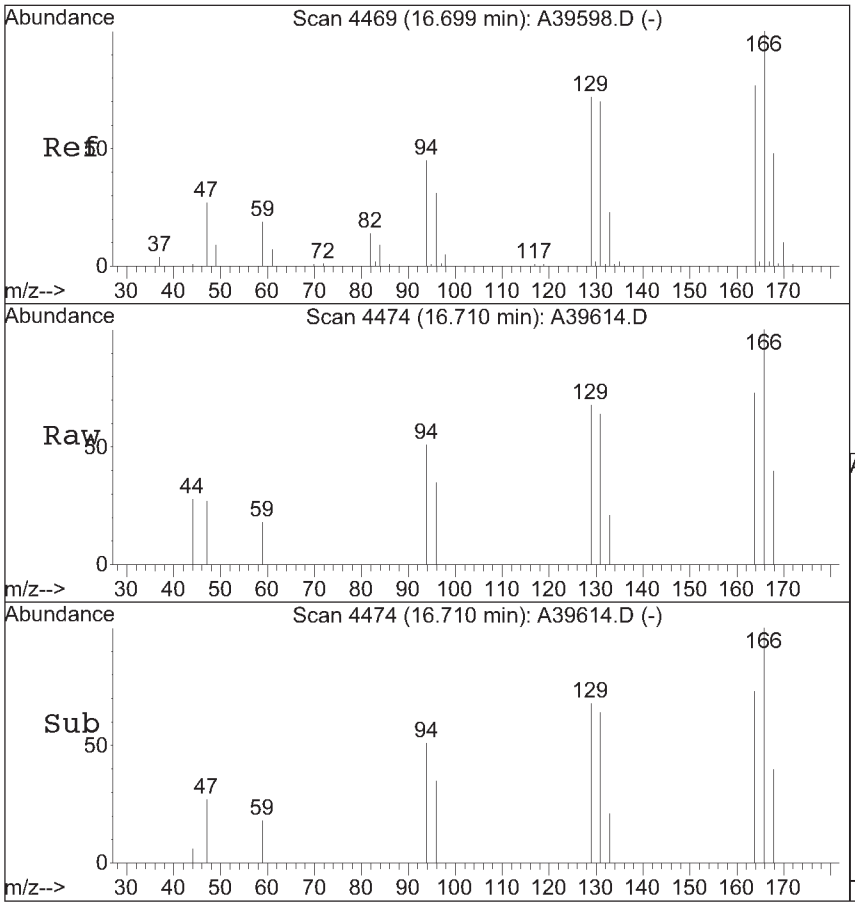


#43
TOLUENE
Concen: 56.50 PPBv
RT: 15.19 min Scan# 3906
Delta R.T. -0.02 min
Lab File: A39614.D
Acq: 8 Mar 2011 9:40 pm

Tgt Ion: 91 Resp: 9112935

Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.1	72.1

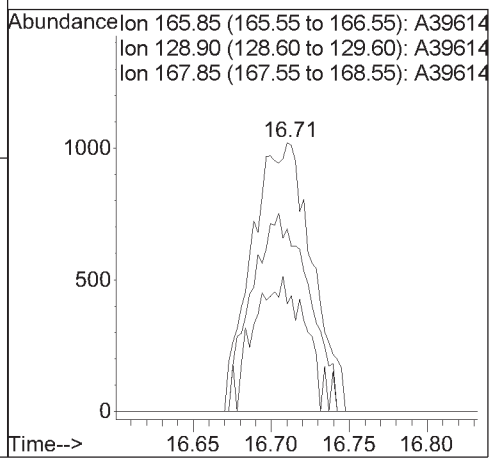




#47
TETRACHLOROETHENE
Concen: 0.35 PPBv m
RT: 16.71 min Scan# 4474
Delta R.T. -0.02 min
Lab File: A39614.D
Acq: 8 Mar 2011 9:40 pm

Tgt Ion:166 Resp: 27327

Ion	Ratio	Lower	Upper
166	100		
129	0.0	56.6	84.8#
168	0.0	38.0	57.0#



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B2-IA1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-12	File ID:	C07492.D
Sampled:	03/03/11 10:17			Analyzed:	03/10/11 21:27
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
71-55-6	1,1,1-Trichloroethane	0.052000	0.28	U
115-07-1	Propene	0.084000	0.14	U
75-71-8	Dichlorodifluoromethane (Freon12)	0.48000	2.37	
74-87-3	Chloromethane	0.48000	0.99	
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.057000	0.40	U
75-01-4	Vinyl chloride	0.064000	0.16	U
106-99-0	1,3-Butadiene	0.055000	0.12	U
74-83-9	Bromomethane	0.052000	0.20	U
75-00-3	Chloroethane	0.076000	0.20	U
67-64-1	Acetone	5.2300	12.43	
75-69-4	Trichlorofluoromethane (Freon 11)	0.28000	1.57	
64-17-5	Ethanol	11.610	21.89	E
75-35-4	1,1-Dichloroethene	0.073000	0.29	U
107-13-1	Acrylonitrile	0.064000	0.14	U
75-09-2	Methylene chloride	0.64000	2.22	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.080000	0.61	J
75-15-0	Carbon disulfide	0.057000	0.18	U
156-60-5	trans-1,2-Dichloroethene	0.042000	0.17	U
75-34-3	1,1-Dichloroethane	0.049000	0.20	U
1634-04-4	Methyl tert-butyl ether	0.049000	0.18	U
67-63-0	Isopropyl alcohol	1.9100	4.69	
78-93-3	2-Butanone (MEK)	0.84000	2.48	
156-59-2	cis-1,2-Dichloroethene	0.049000	0.19	U
110-54-3	Hexane	1.4300	5.04	
141-78-6	Ethyl acetate	0.76000	2.74	
67-66-3	Chloroform	0.045000	0.22	U
109-99-9	Tetrahydrofuran	0.053000	0.16	U
107-06-2	1,2-Dichloroethane	0.046000	0.19	U
71-43-2	Benzene	0.28000	0.89	
56-23-5	Carbon tetrachloride	0.080000	0.50	J
110-82-7	Cyclohexane	0.20000	0.69	
78-87-5	1,2-Dichloropropane	0.049000	0.23	U
75-27-4	Bromodichloromethane	0.053000	0.36	U
79-01-6	Trichloroethene	0.090000	0.48	J
123-91-1	1,4-Dioxane	0.067000	0.24	U
142-82-5	n-Heptane	0.11000	0.45	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.060000	0.25	J
10061-01-5	cis-1,3-Dichloropropene	0.047000	0.21	U
10061-02-6	trans-1,3-Dichloropropene	0.047000	0.21	U
79-00-5	1,1,2-Trichloroethane	0.066000	0.36	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B2-IA1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-12	File ID:	C07492.D
Sampled:	03/03/11 10:17			Analyzed:	03/10/11 21:27
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104208	Sequence:	S101738	Calibration:	1103010
Instrument:	Air4				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
108-88-3	Toluene	0.82000	3.09	
591-78-6	2-Hexanone (MBK)	0.042000	0.17	U
124-48-1	Dibromochloromethane	0.059000	0.50	U
106-93-4	1,2-Dibromoethane (EDB)	0.043000	0.33	U
127-18-4	Tetrachloroethene	4.0500	27.46	
108-90-7	Chlorobenzene	0.070000	0.32	J
100-41-4	Ethylbenzene	0.20000	0.87	
630-20-6	1,1,1,2-Tetrachloroethane	0.047000	0.32	U
179601-23-1	m,p-Xylene	0.43000	1.86	
75-25-2	Bromoform	0.046000	0.48	U
100-42-5	Styrene	0.22000	0.94	
95-47-6	o-Xylene	0.14000	0.61	
79-34-5	1,1,2,2-Tetrachloroethane	0.066000	0.45	U
108-67-8	1,3,5-Trimethylbenzene	0.046000	0.23	U
622-96-8	4-Ethyltoluene	0.055000	0.27	U
95-63-6	1,2,4-Trimethylbenzene	0.11000	0.54	
98-82-8	Isopropylbenzene	0.056000	0.28	U
541-73-1	1,3-Dichlorobenzene	0.055000	0.33	U
100-44-7	Benzyl chloride	0.062000	0.32	U
106-46-7	1,4-Dichlorobenzene	0.061000	0.37	U
91-20-3	Naphthalene	0.18300	0.96	U
95-50-1	1,2-Dichlorobenzene	0.053000	0.32	U
120-82-1	1,2,4-Trichlorobenzene	0.053000	0.39	U
87-68-3	Hexachlorobutadiene	0.040000	0.43	U
135-98-8	sec-Butylbenzene	0.052000	0.29	U
99-87-6	4-Isopropyltoluene	0.062000	0.33	U
104-51-8	n-Butylbenzene	0.056000	0.31	U

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07492.D
Acq On : 10 Mar 2011 9:27 pm
Operator : KRL
Sample : sb25245-12 @ b2-ia1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 11 15:18:14 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.133	128	499149	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.337	114	2414324	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.878	54	319382	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.103	95	1055172	9.49	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 94.90%#			
Target Compounds						Qvalue
3) DICHLORODIFLUOROMETHANE	5.177	85	347616	0.48	PPBv	# 100
4) CHLOROMETHANE	5.364	50	180337	0.48	PPBv	# 100
7] VINYL CHLORIDE (SIM)	5.597	62	2263	Below Cal		# 100
11) ACETONE	6.819	58	801781m	5.23	PPBv	
12) TRICHLOROFLUOROMETHANE	7.037	101	274865	0.28	PPBv	# 100
13) ETHANOL	6.312	45	1040357	11.61	PPBv	# 100
15) 1,1-DICHLOROETHENE	7.697	96	9492m	0.03	PPBv	
16] 1,1-DICHLOROETHENE (SIM)	7.697	96	11568	Below Cal		# 100
17) METHYLENE CHLORIDE	7.816	84	179645	0.64	PPBv	# 100
18) FREON 113	8.094	101	50958	0.08	PPBv	# 100
24) IPA	7.064	45	902822	1.91	PPBv	# 100
25) 2-BUTANONE (MEK)	9.442	72	90004	0.84	PPBv	# 100
26) CIS-1,2-DICHLOROETHENE	9.936	96	10051m	0.04	PPBv	
27) HEXANE	10.176	57	524282	1.43	PPBv	# 100
28) ETHYL ACETATE	10.161	61	55534	0.76	PPBv	# 100
33) BENZENE	11.944	78	211938	0.28	PPBv	100
34) CARBON TETRACHLORIDE	12.120	119	40136	0.08	PPBv	# 100
35] CARBON TETRACHLORIDE (...	12.123	119	47390	0.07	PPBv	# 100
36) CYCLOHEXANE	12.279	56	75817	0.20	PPBv	# 100
40) TRICHLOROETHENE	13.191	95	27977	0.09	PPBv	# 100
41] TRICHLOROETHENE (SIM)	13.190	95	37113	0.09	PPBv	# 100
43) HEPTANE	13.533	57	24332m	0.11	PPBv	
44) MIBK	14.288	43	32411	0.06	PPBv	# 100
48) TOLUENE	15.498	91	713859	0.82	PPBv	# 100
52) TETRACHLOROETHENE	17.009	166	1845455	4.05	PPBv	# 100
53] TETRACHLOROETHENE (SIM)	17.009	166	2217898	4.16	PPBv	# 100
55) CHLOROBENZENE	17.945	112	63736	0.07	PPBv	# 100
57) ETHYLBENZENE	18.469	91	224341	0.20	PPBv	# 100
58) M/P-XYLENE	18.714	106	232780	0.43	PPBv	# 100
60) STYRENE	19.256	104	141056	0.22	PPBv	# 100
61) O-XYLENE	19.415	106	70290	0.14	PPBv	# 100
65) 4-ETHYLTOLUENE	21.359	105	41125m	0.03	PPBv	
66) 1,3,5-TRIMETHYLBENZENE	21.510	105	31447m	0.03	PPBv	

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07492.D
Acq On : 10 Mar 2011 9:27 pm
Operator : KRL
Sample : sb25245-12 @ b2-ia1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 11 15:18:14 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

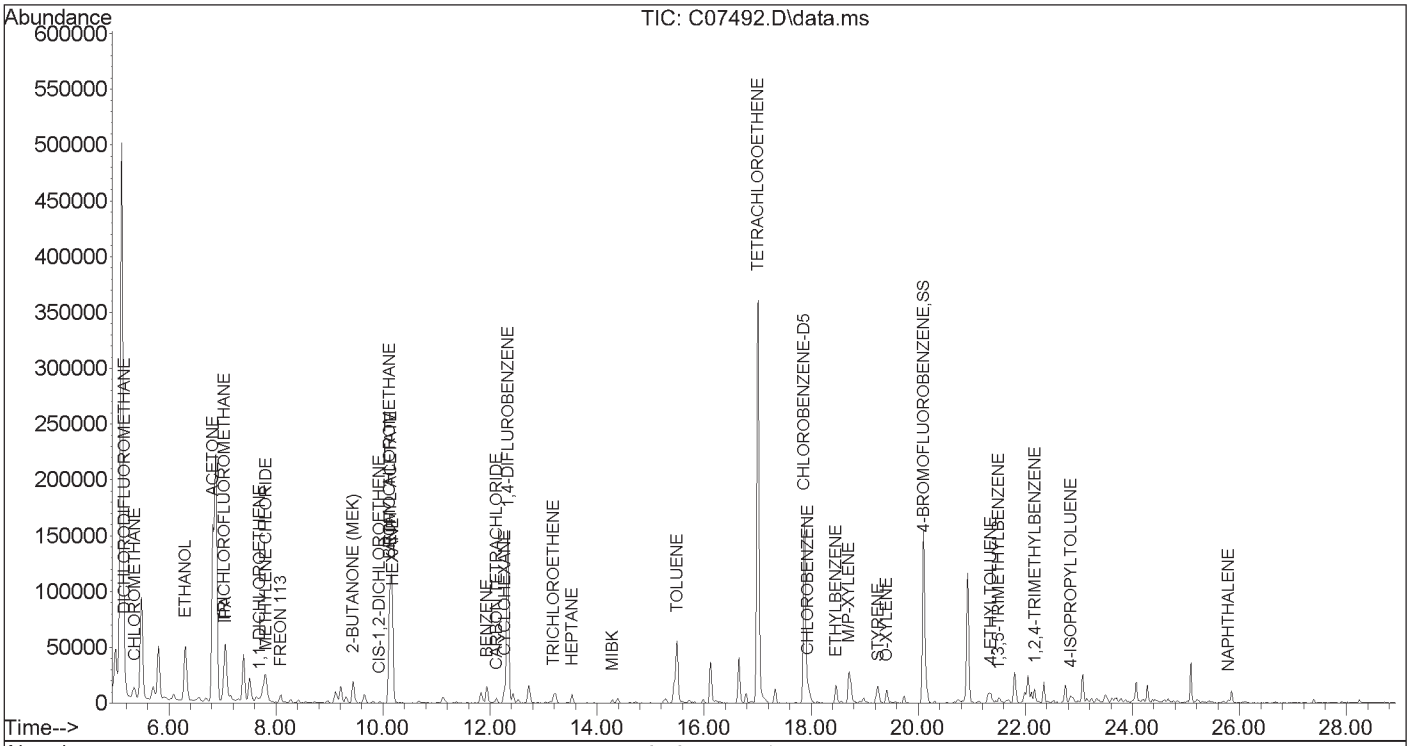
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
67)	1,2,4-TRIMETHYLBENZENE	22.177	105	105494	0.11	PPBv	#	100
72)	4-ISOPROPYLTOLUENE	22.850	119	31343	0.02	PPBv	#	100
76)	NAPHTHALENE	25.797	128	44076	0.04	PPBv		100

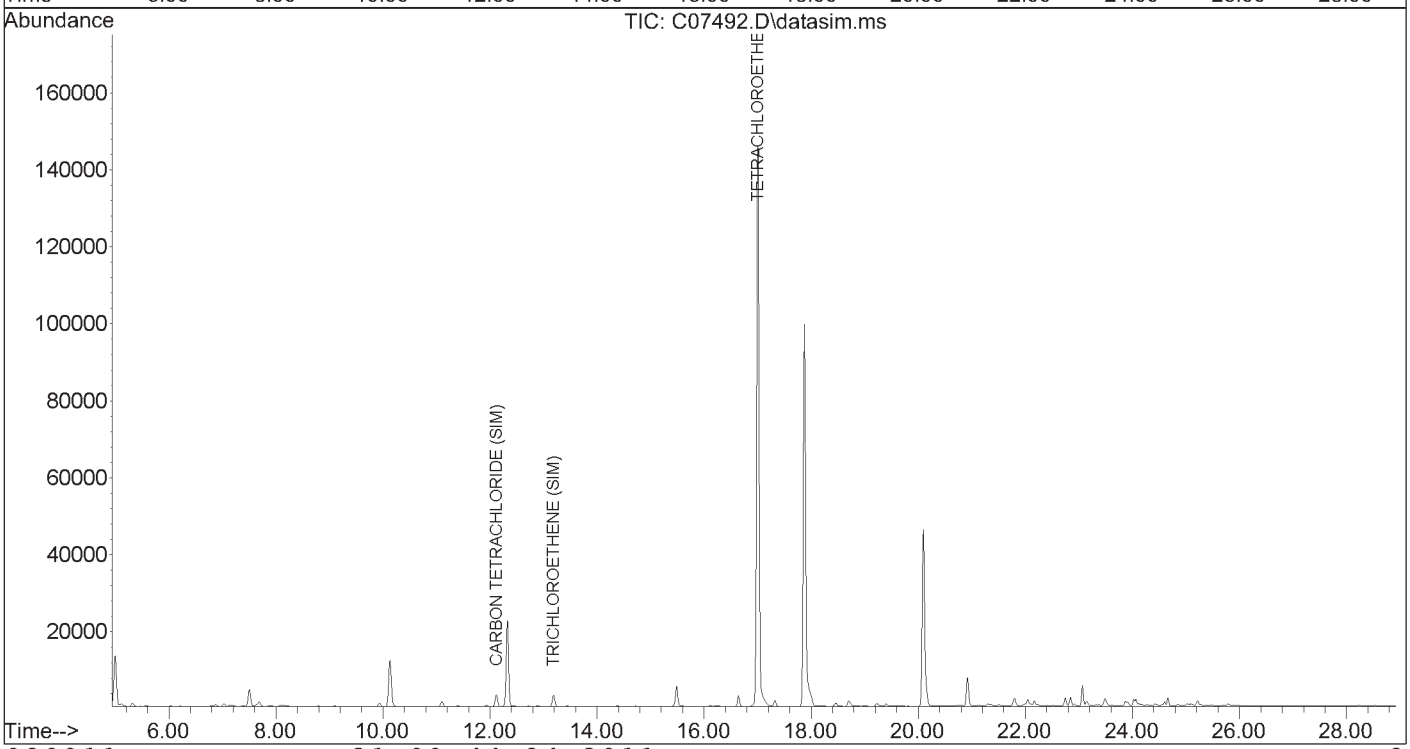
(#) = qualifier out of range (m) = manual integration (+) = signals summed

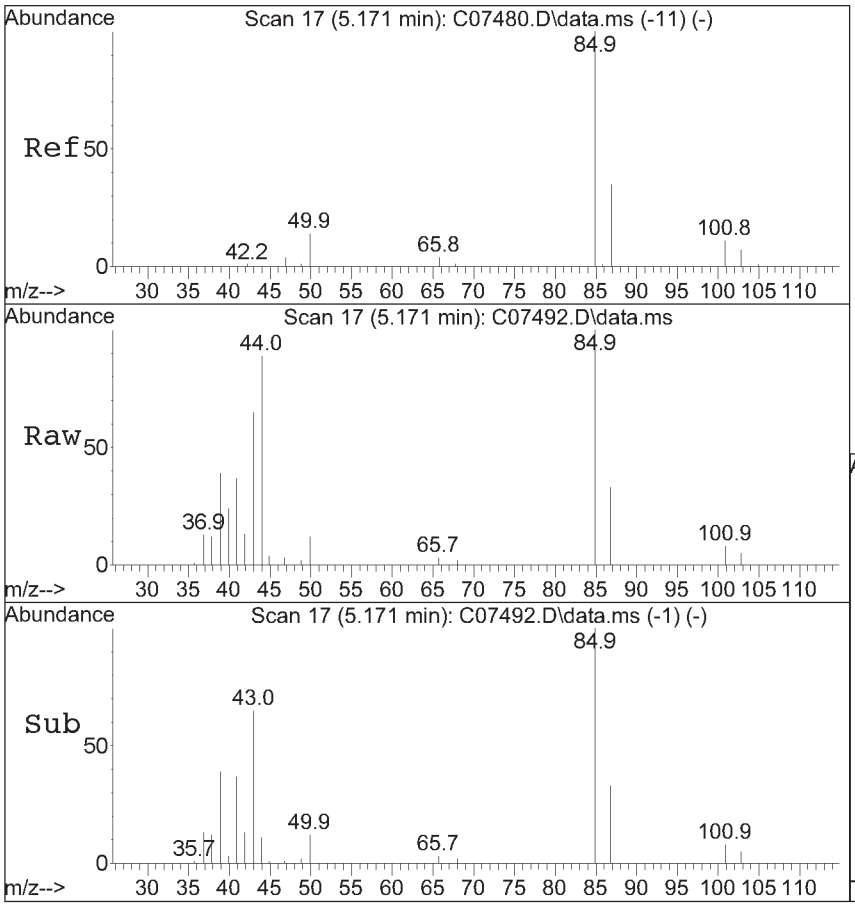
Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07492.D
Acq On : 10 Mar 2011 9:27 pm
Operator : KRL
Sample : sb25245-12 @ b2-ia1 1x to-15low Inst : Air 4
Misc : 1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 11 15:18:14 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration



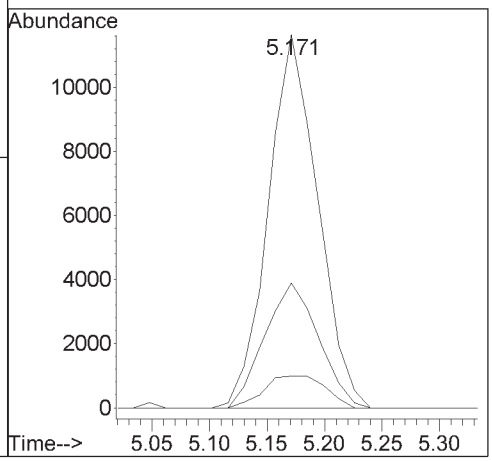


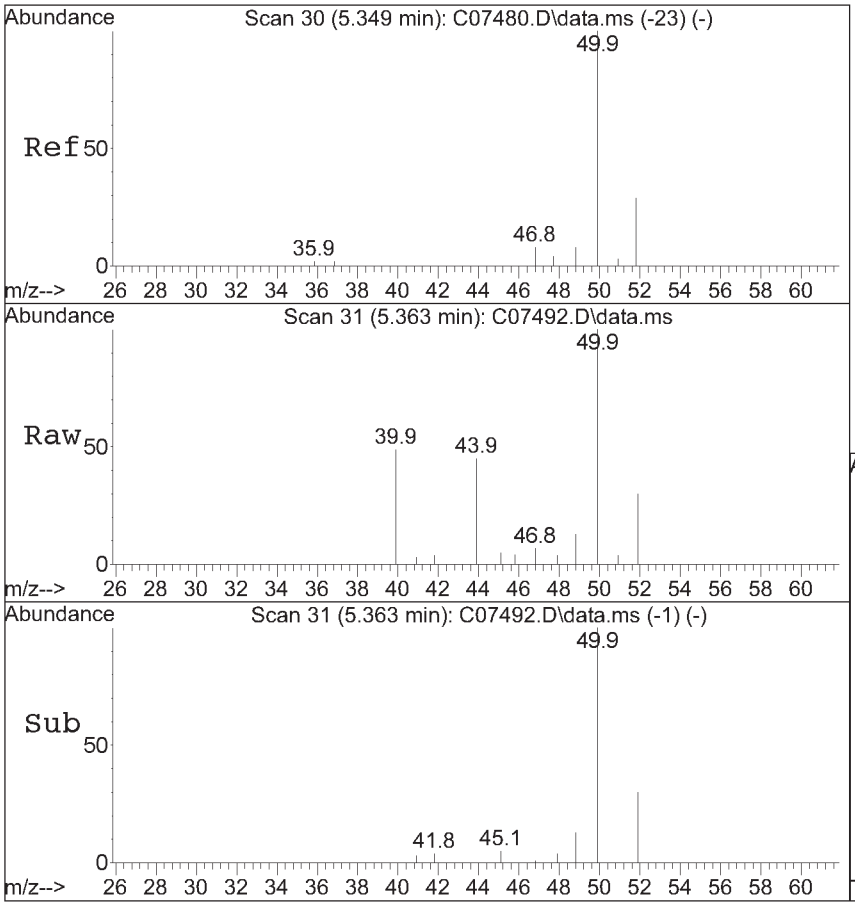


#3
DICHLORODIFLUOROMETHANE
Concen: 0.48 PPBv
RT: 5.177 min Scan# 17
Delta R.T. 0.003 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 85 Resp: 347616

Ion	Ratio	Lower	Upper
85	100		
87	36.4	0.0	0.0#
101	10.6	0.0	0.0#

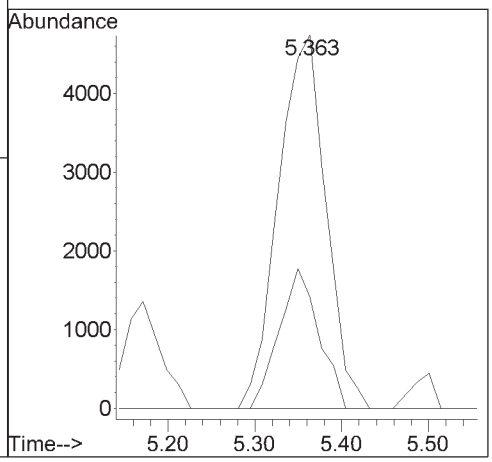


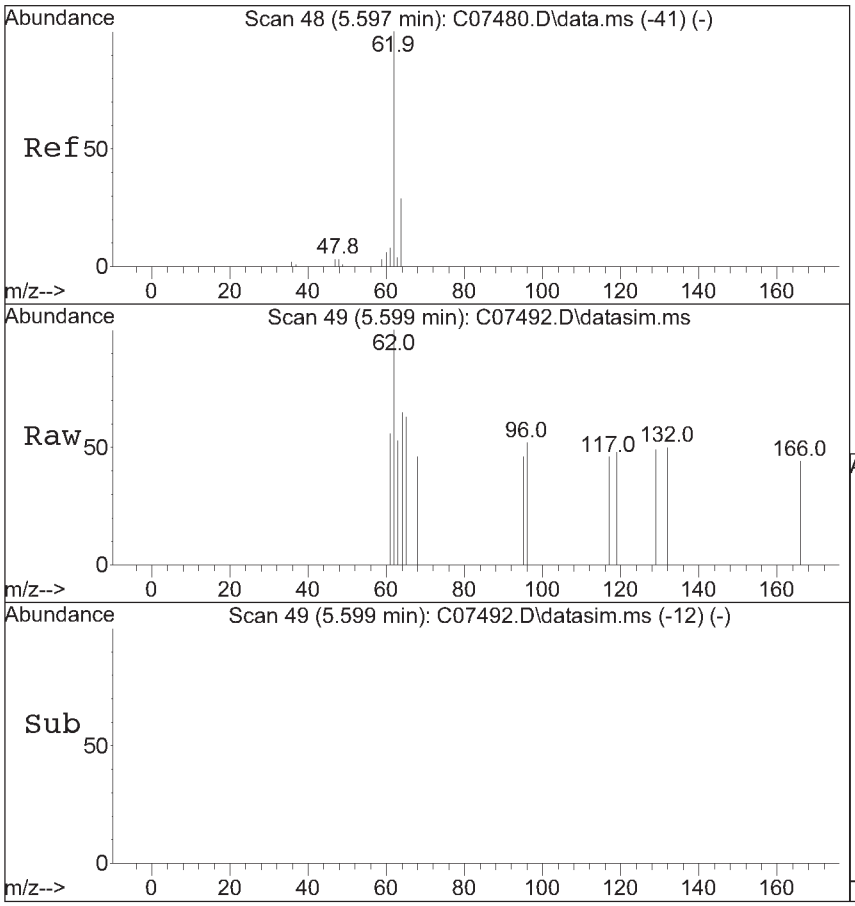


#4
CHLOROMETHANE
Concen: 0.48 PPBv
RT: 5.364 min Scan# 31
Delta R.T. 0.007 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 50 Resp: 180337

Ion	Ratio	Lower	Upper
50	100		
52	31.2	0.0	0.0#

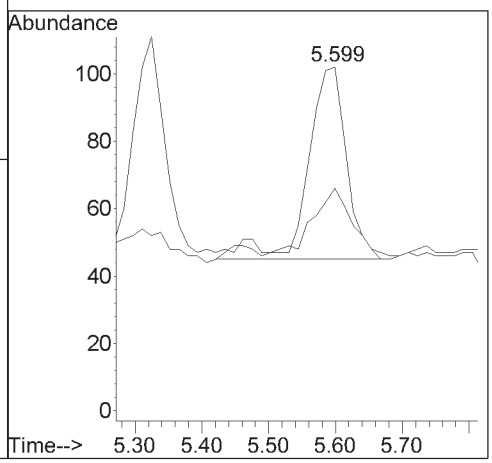


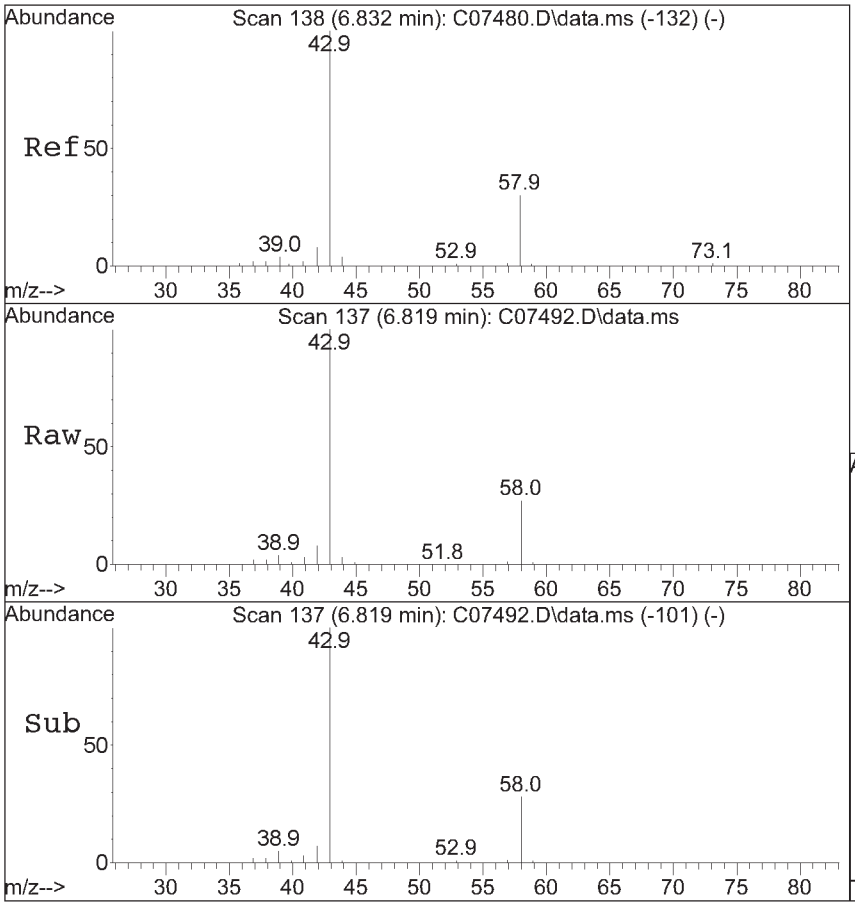


#7
VINYL CHLORIDE (SIM)
Concen: Below Cal
RT: 5.597 min Scan# 49
Delta R.T. 0.005 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 62 Resp: 2263

Ion	Ratio	Lower	Upper
62	100		
64	0.0	0.0	0.0

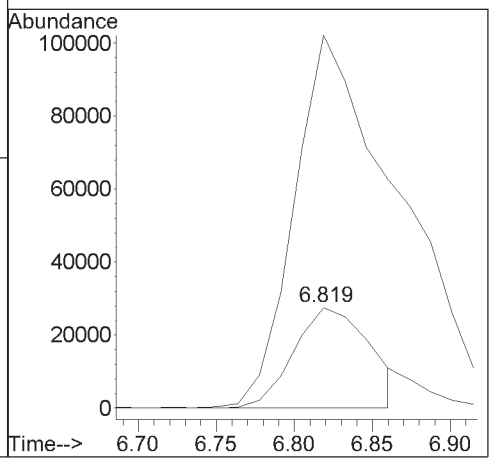


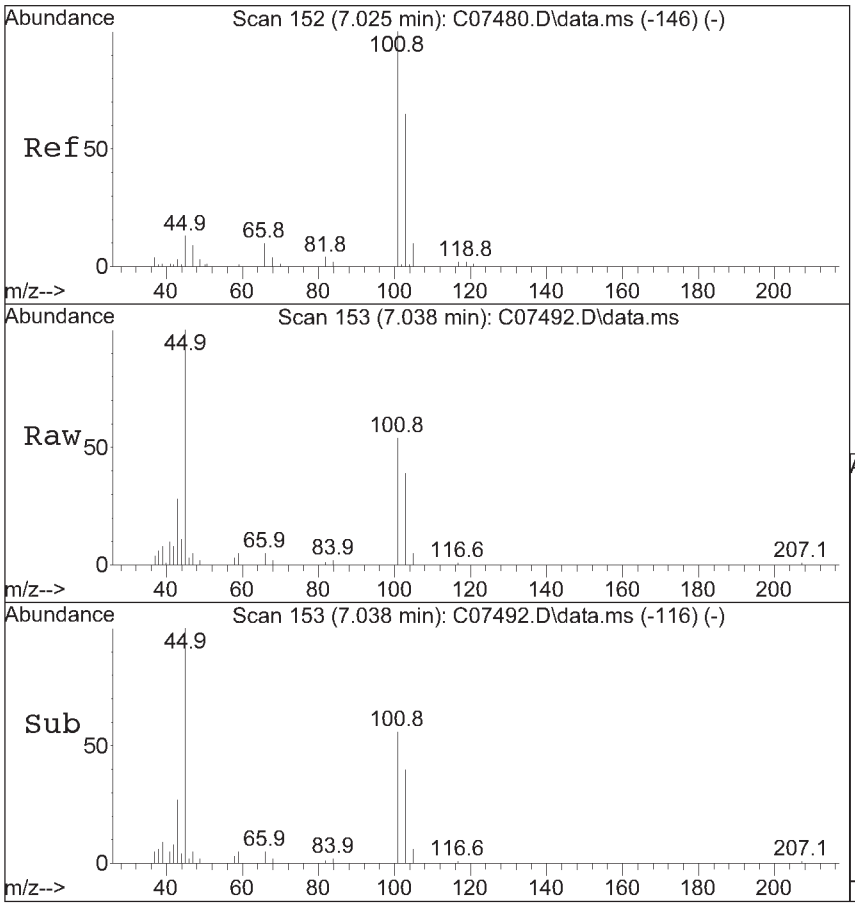


#11
ACETONE
Concen: 5.23 PPBv m
RT: 6.819 min Scan# 137
Delta R.T. -0.011 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 58 Resp: 801781

Ion	Ratio	Lower	Upper
58	100		
43	594.3	0.0	0.0#

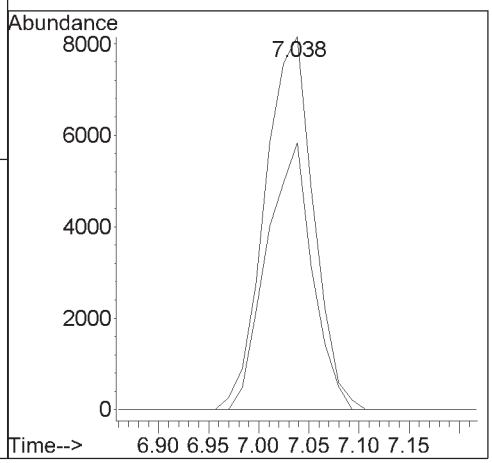


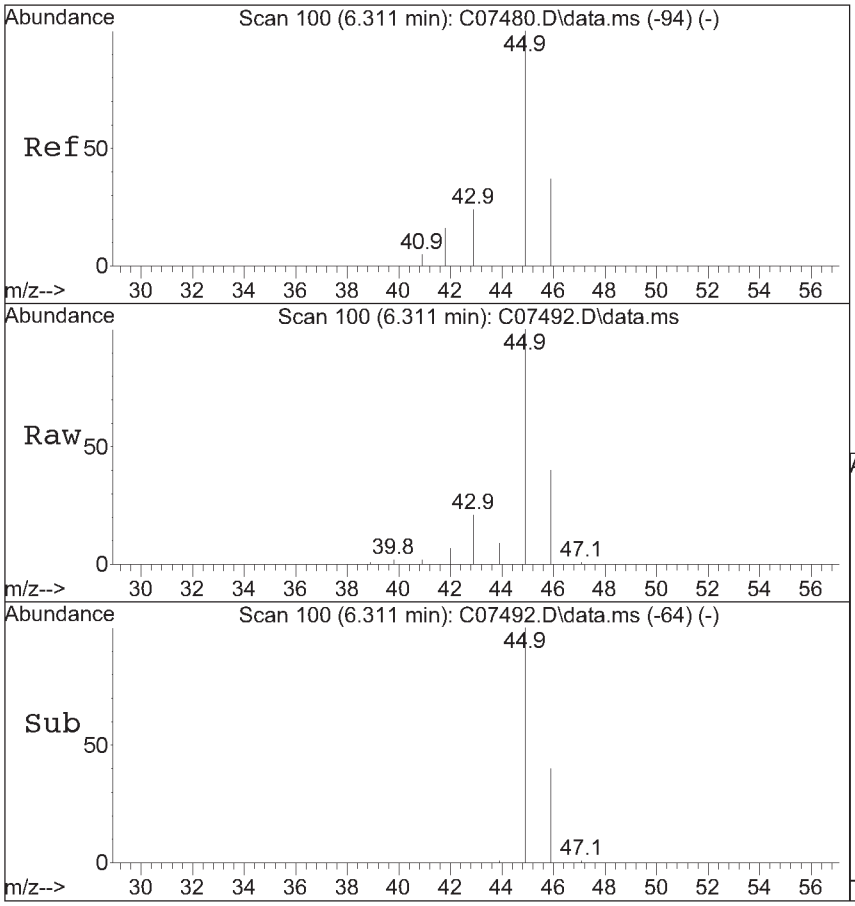


#12
TRICHLOROFLUOROMETHANE
Concen: 0.28 PPBv
RT: 7.037 min Scan# 153
Delta R.T. 0.005 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:101 Resp: 274865

Ion	Ratio	Lower	Upper
101	100		
103	67.5	0.0	0.0#

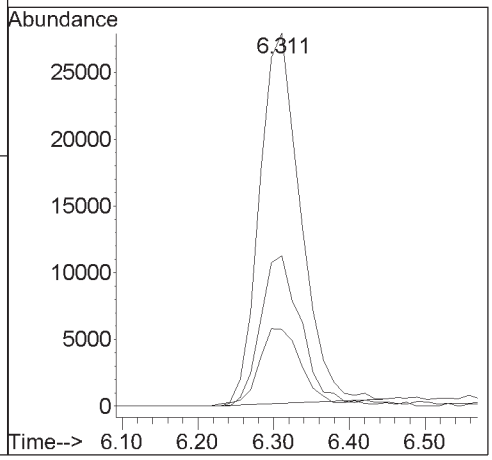


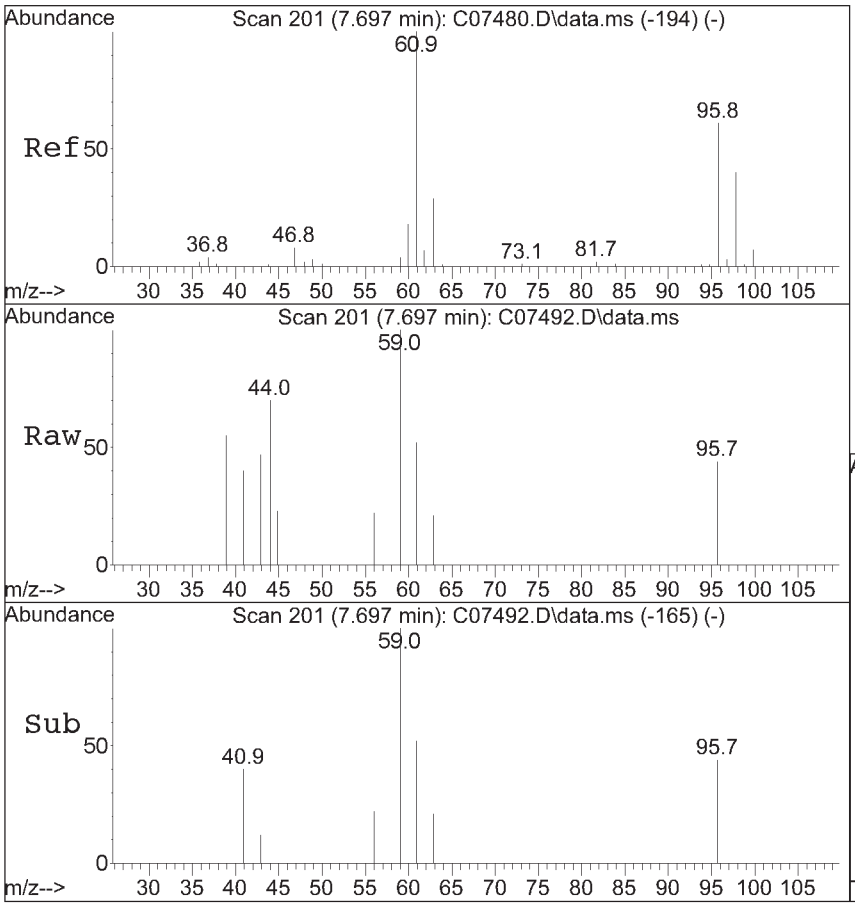


#13
ETHANOL
Concen: 11.61 PPBv
RT: 6.312 min Scan# 100
Delta R.T. -0.005 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 45 Resp: 1040357

Ion	Ratio	Lower	Upper
45	100		
46	41.6	0.0	0.0#
43	0.0	0.0	0.0

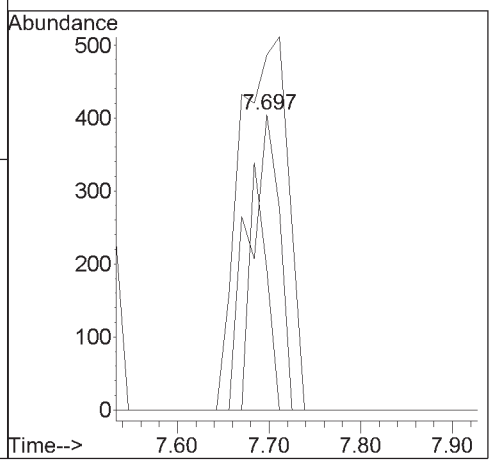


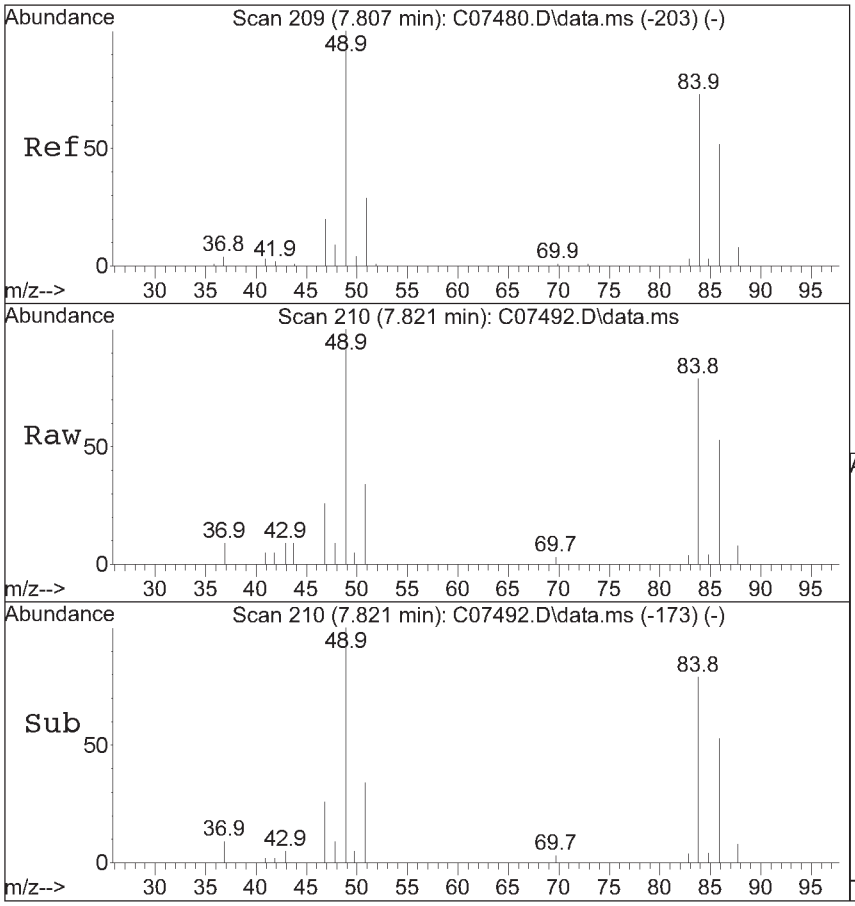


#15
1,1-DICHLOROETHENE
Concen: 0.03 PPBv m
RT: 7.697 min Scan# 201
Delta R.T. 0.000 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 96 Resp: 9492

Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	0.0
63	0.0	0.0	0.0

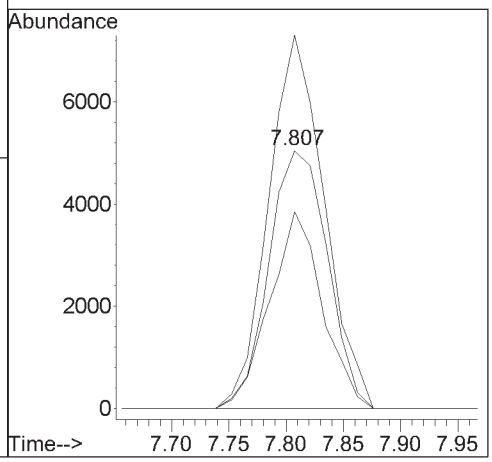


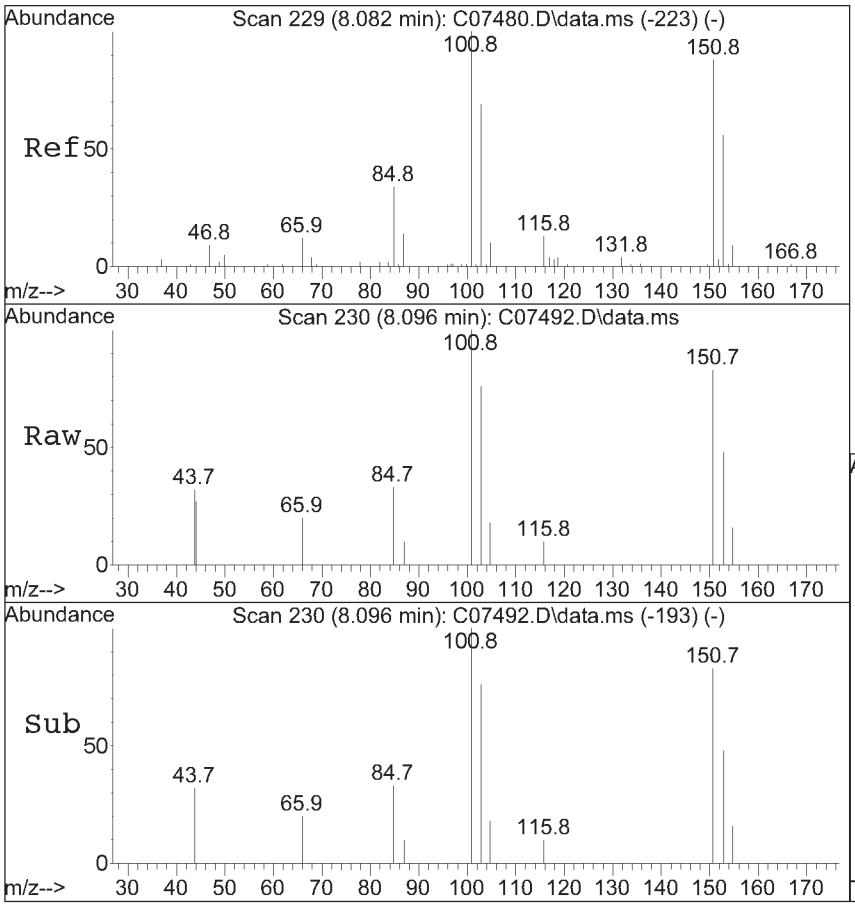


#17
METHYLENE CHLORIDE
Concen: 0.64 PPBv
RT: 7.816 min Scan# 210
Delta R.T. 0.004 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 84 Resp: 179645

Ion	Ratio	Lower	Upper
84	100		
49	137.2	0.0	0.0#
86	68.4	0.0	0.0#

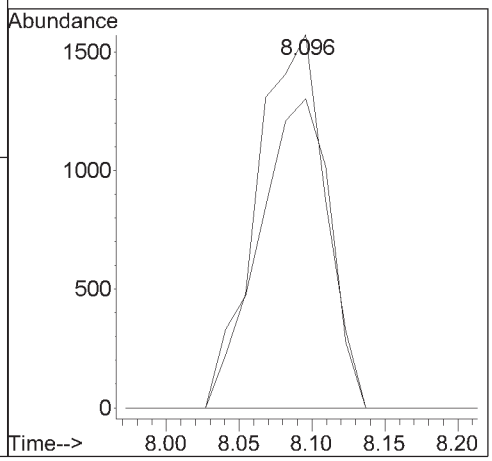


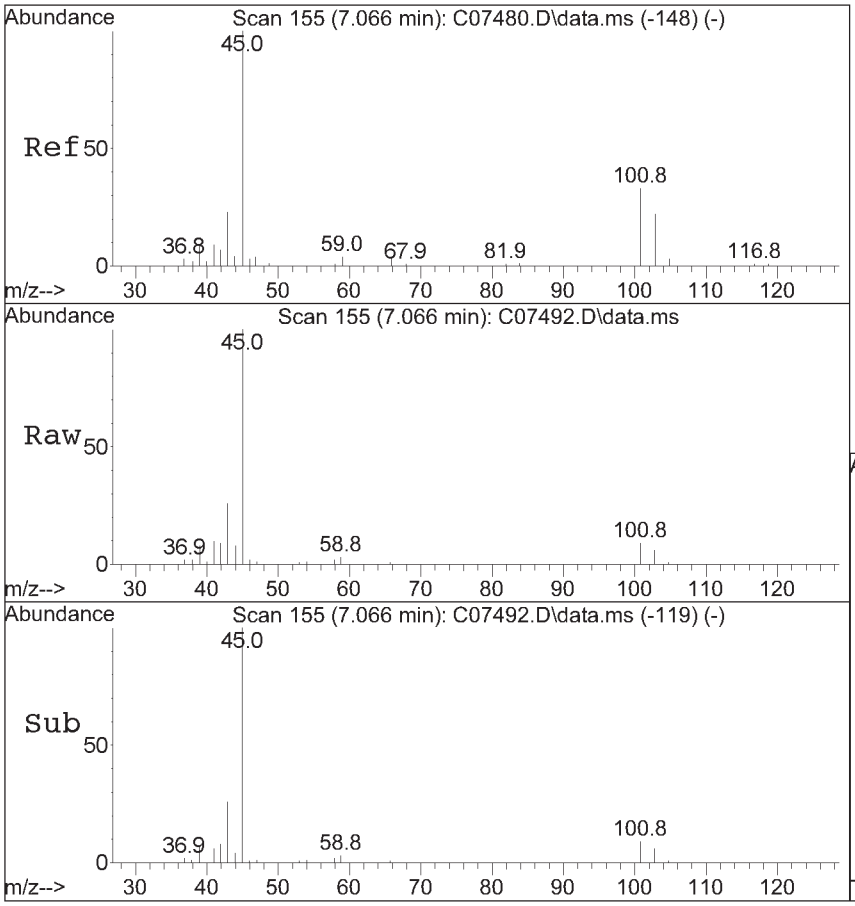


#18
FREON 113
Concen: 0.08 PPBv
RT: 8.094 min Scan# 230
Delta R.T. 0.006 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:101 Resp: 50958

Ion	Ratio	Lower	Upper
101	100		
151	88.2	0.0	0.0#

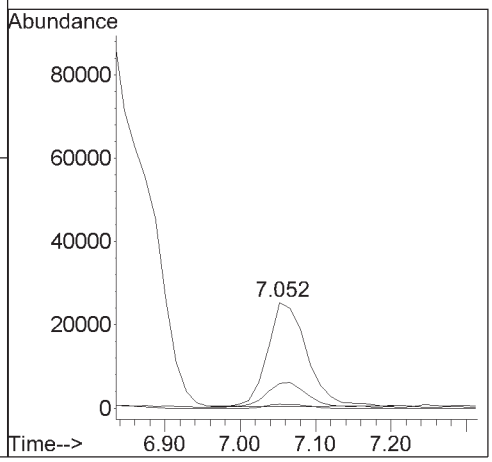


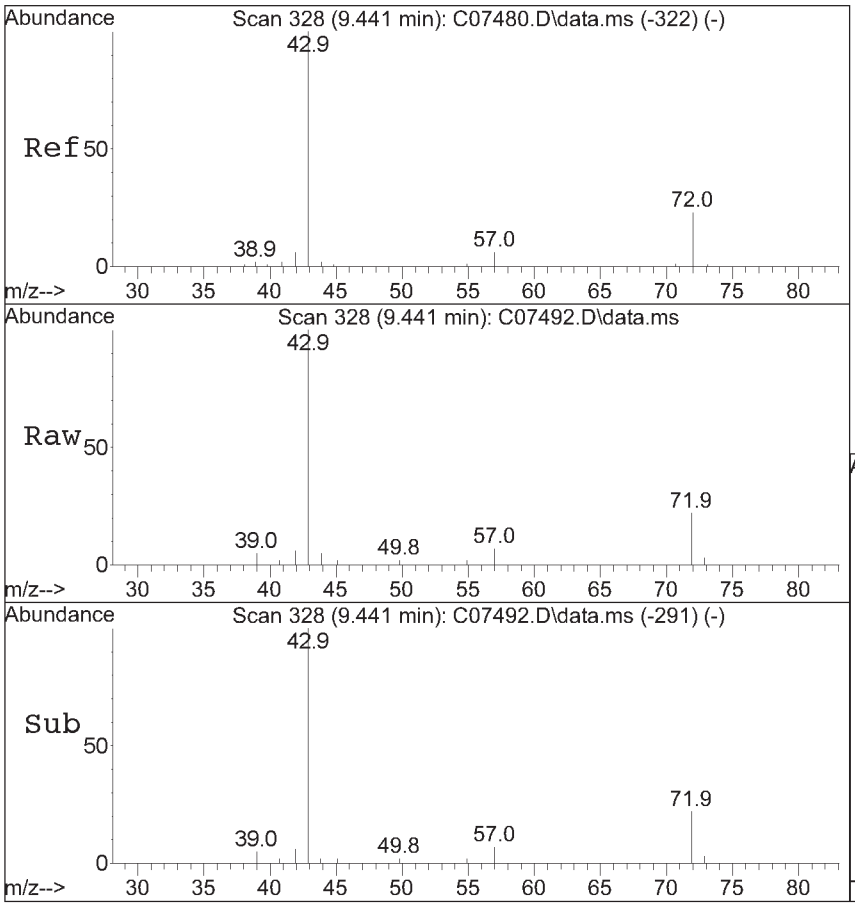


#24
IPA
Concen: 1.91 PPBv
RT: 7.064 min Scan# 155
Delta R.T. -0.002 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 45 Resp: 902822

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	0.0
59	3.8	0.0	0.0#

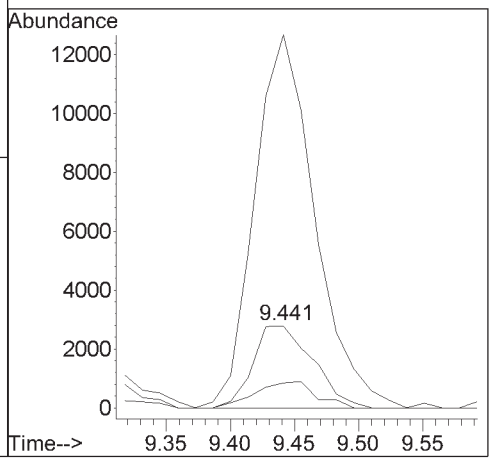


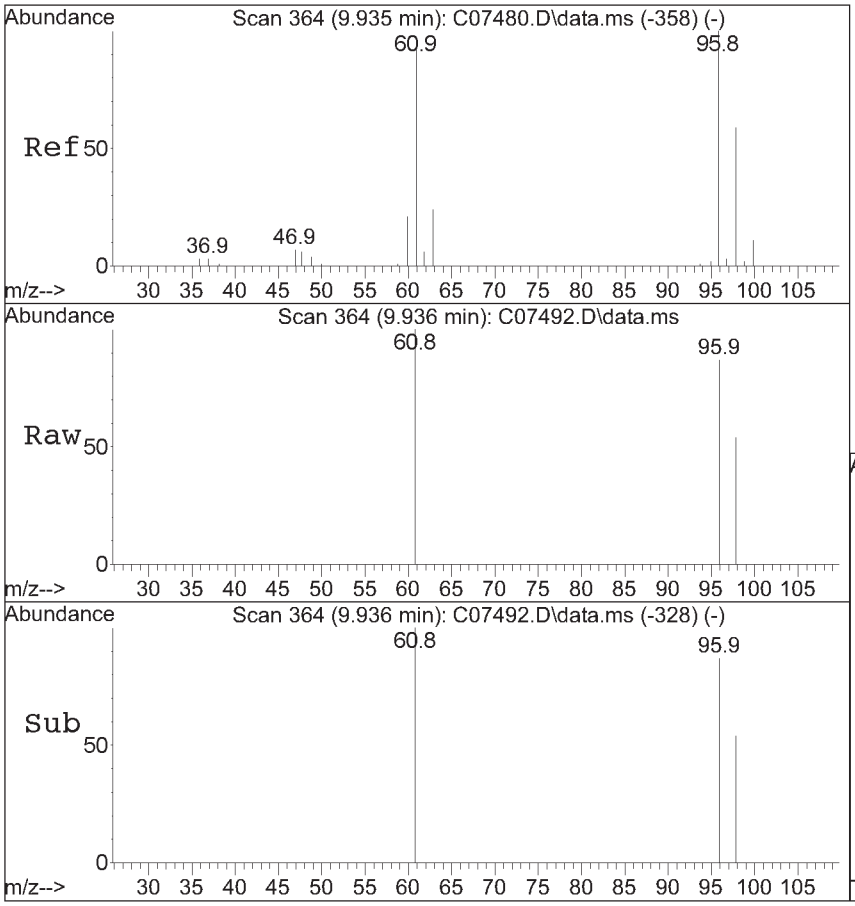


#25
2-BUTANONE (MEK)
Concen: 0.84 PPBv
RT: 9.442 min Scan# 328
Delta R.T. 0.002 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 72 Resp: 90004

Ion	Ratio	Lower	Upper
72	100		
57	0.0	0.0	0.0
43	461.1	0.0	0.0#

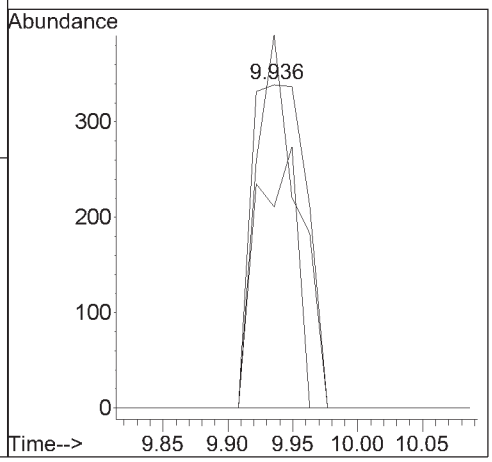


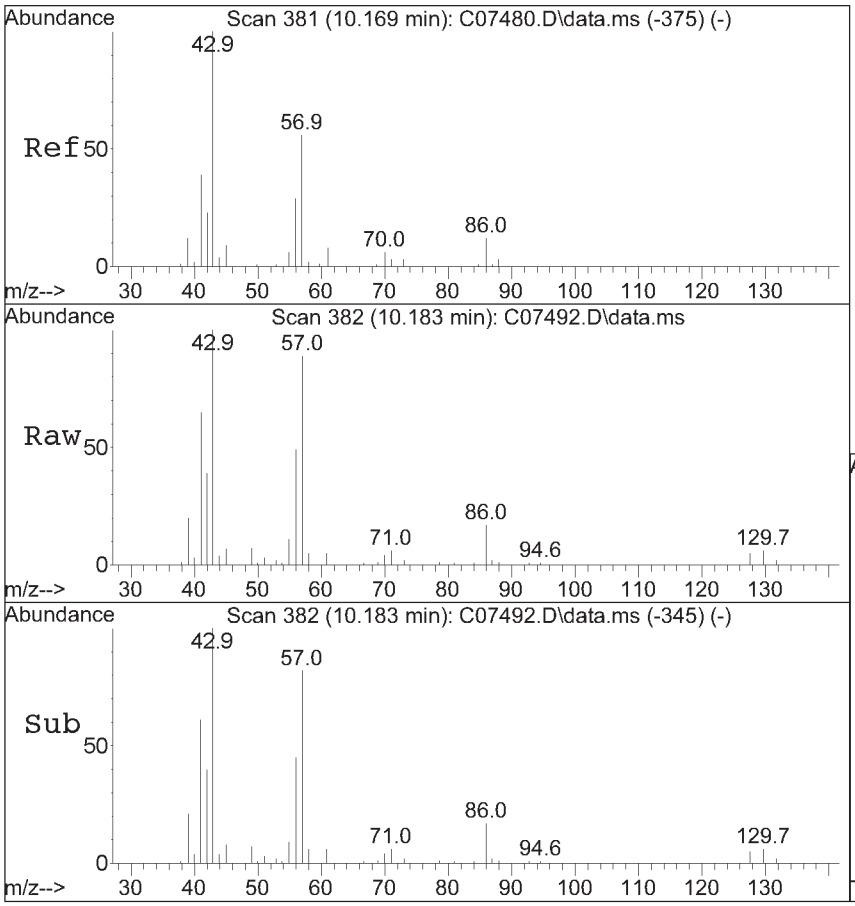


#26
CIS-1,2-DICHLOROETHENE
Concen: 0.04 PPBv m
RT: 9.936 min Scan# 364
Delta R.T. -0.007 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 96 Resp: 10051

Ion	Ratio	Lower	Upper
96	100		
98	0.0	0.0	0.0
61	0.0	0.0	0.0

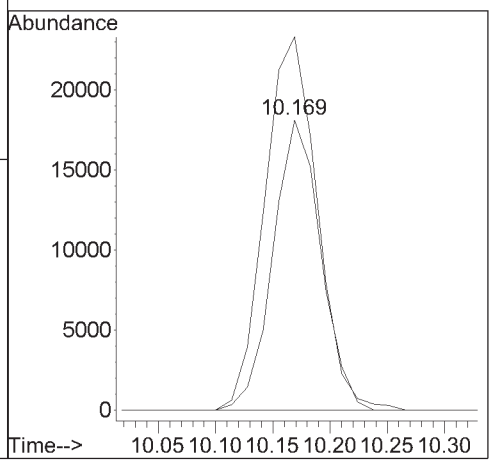


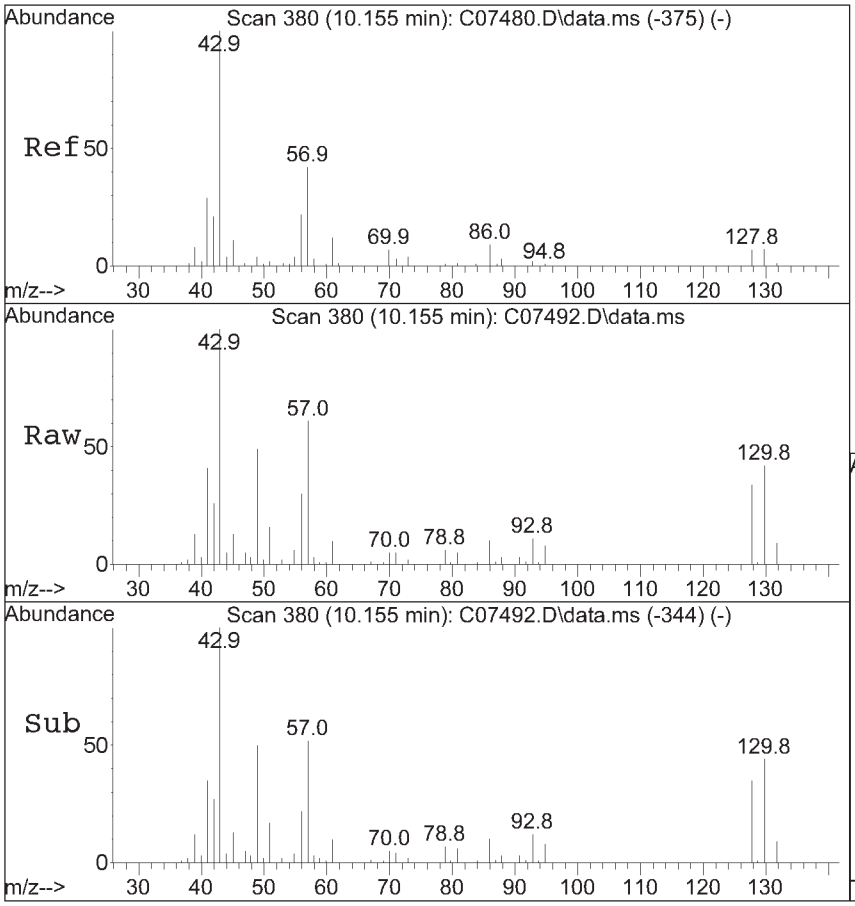


#27
HEXANE
Concen: 1.43 PPBv
RT: 10.176 min Scan# 382
Delta R.T. 0.002 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 57 Resp: 524282

Ion	Ratio	Lower	Upper
57	100		
43	141.3	0.0	0.0#

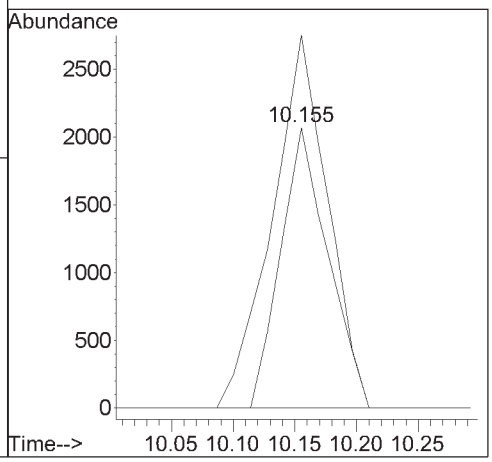


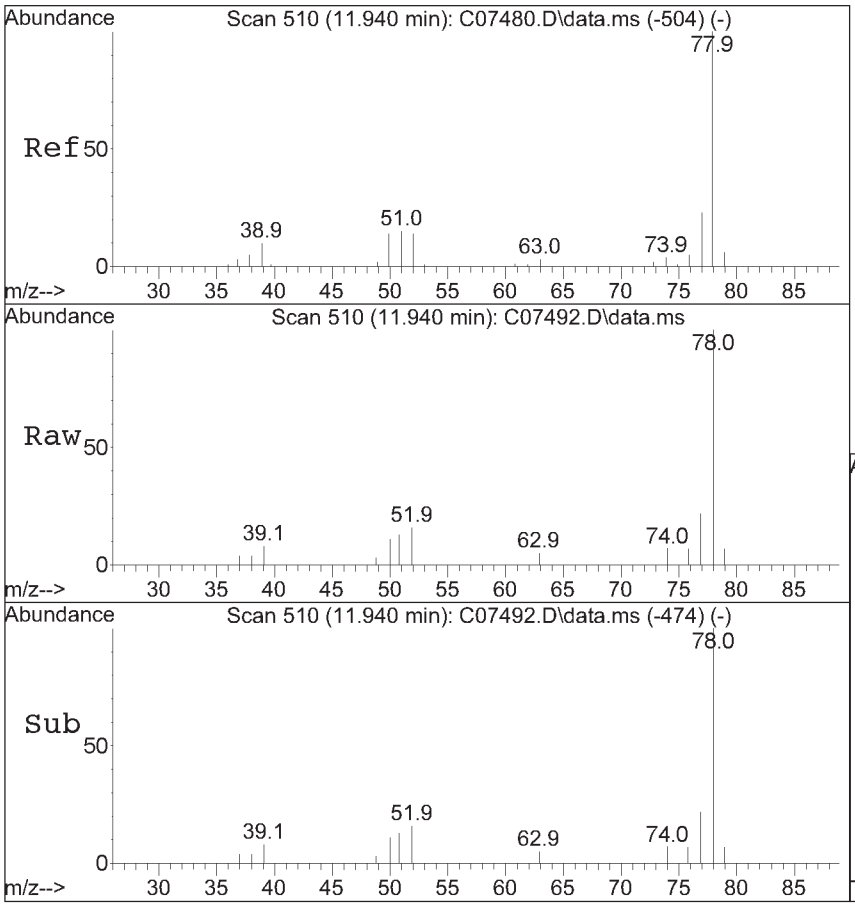


#28
ETHYL ACETATE
Concen: 0.76 PPBv
RT: 10.161 min Scan# 380
Delta R.T. 0.001 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 61 Resp: 55534

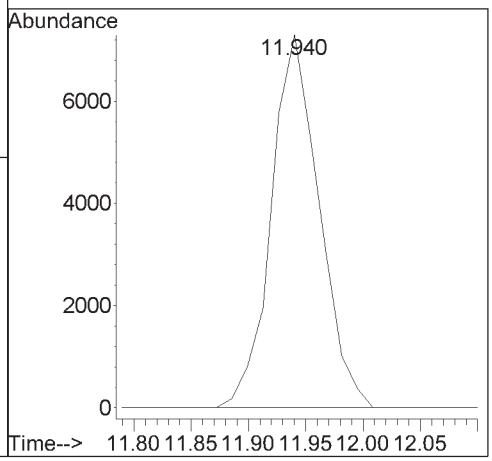
Ion	Ratio	Lower	Upper
61	100		
45	154.9	0.0	0.0#

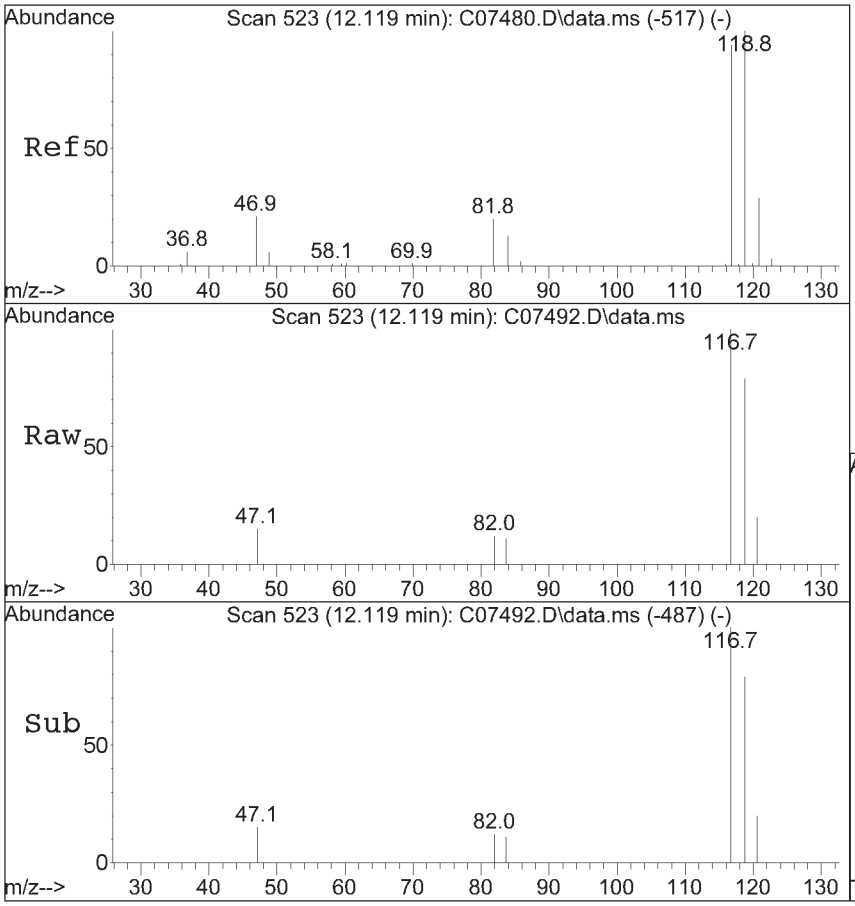




#33
BENZENE
Concen: 0.28 PPBv
RT: 11.944 min Scan# 510
Delta R.T. -0.002 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 78 Resp: 211938

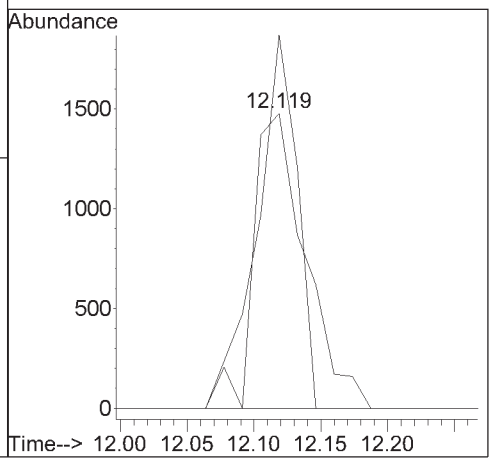


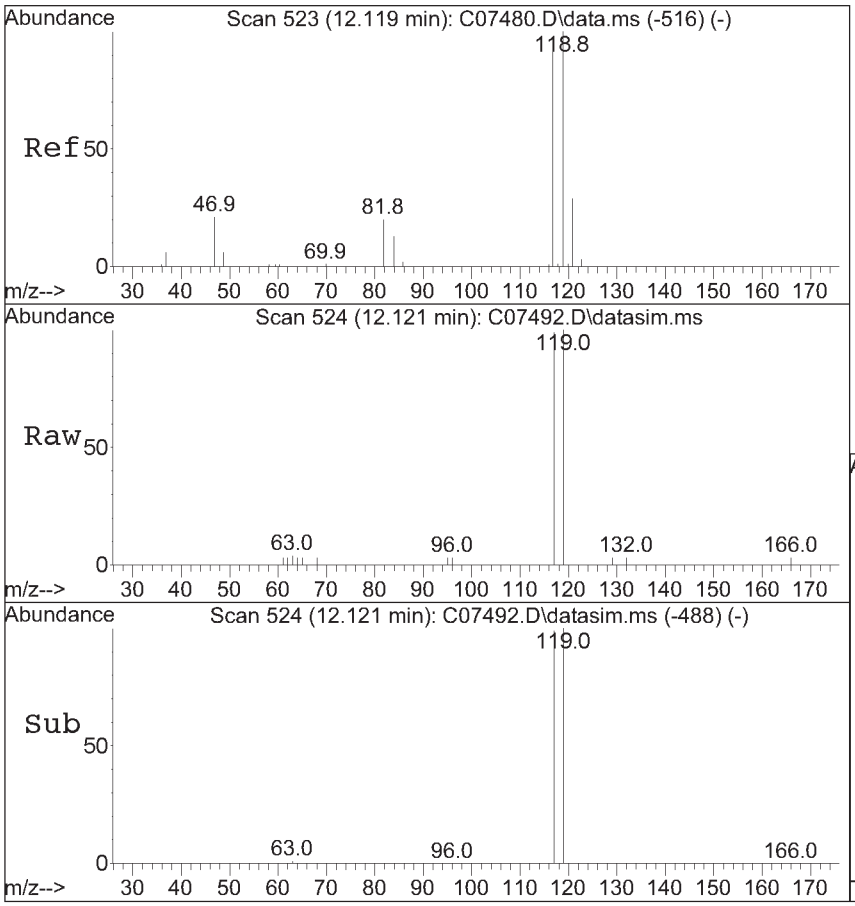


#34
CARBON TETRACHLORIDE
Concen: 0.08 PPBv
RT: 12.120 min Scan# 523
Delta R.T. -0.002 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:119 Resp: 40136

Ion	Ratio	Lower	Upper
119	100		
117	97.5	0.0	0.0#

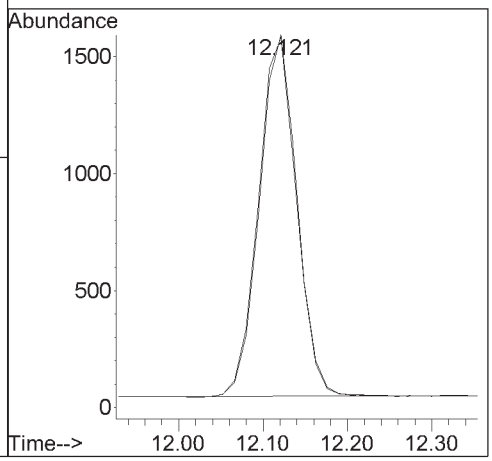


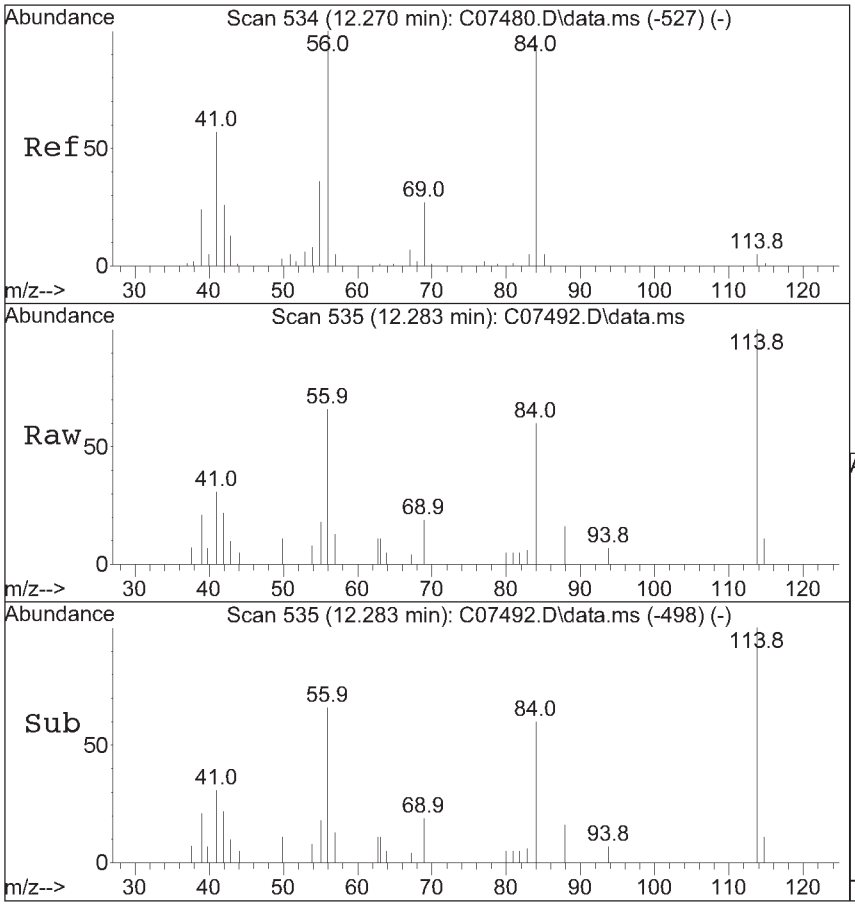


#35
CARBON TETRACHLORIDE (SIM)
Concen: 0.07 PPBv
RT: 12.123 min Scan# 524
Delta R.T. 0.001 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:119 Resp: 47390

Ion	Ratio	Lower	Upper
119	100		
117	100.9	0.0	0.0#

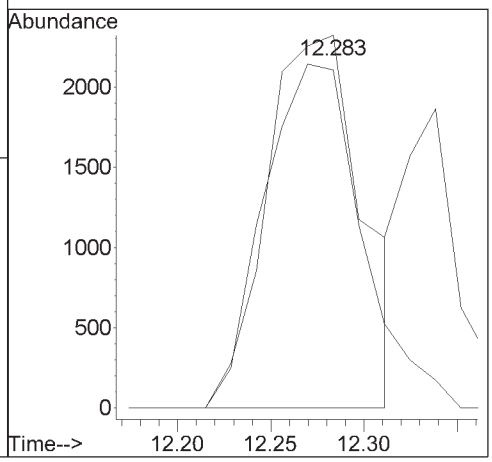


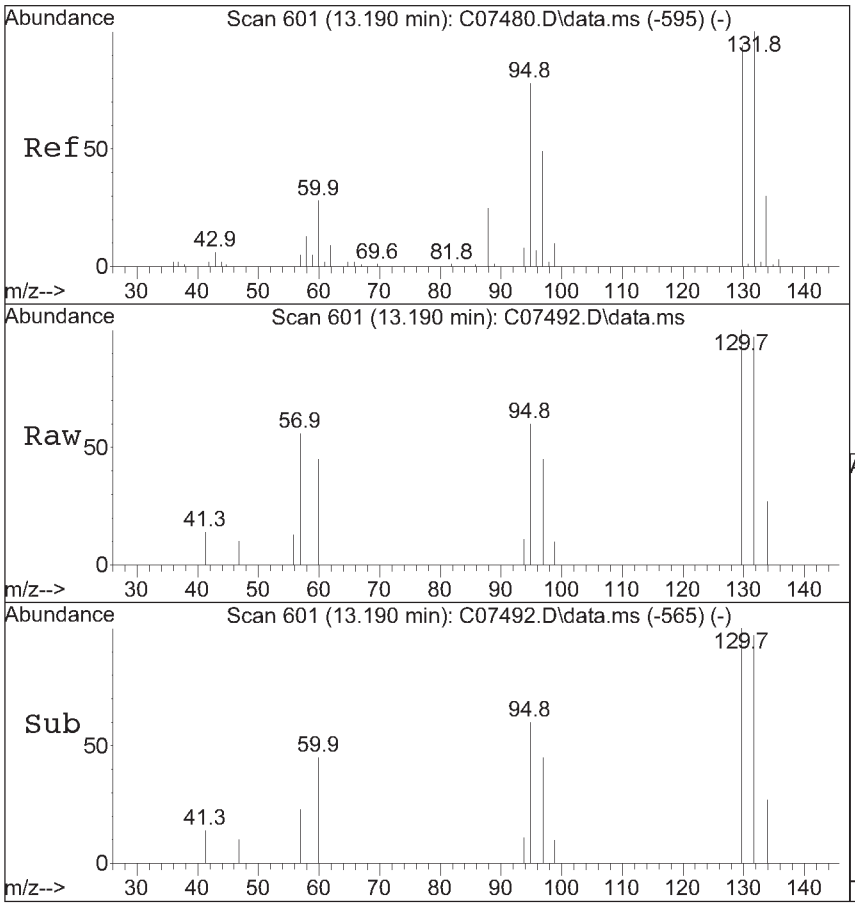


#36
CYCLOHEXANE
Concen: 0.20 PPBv
RT: 12.279 min Scan# 535
Delta R.T. 0.009 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 56 Resp: 75817

Ion	Ratio	Lower	Upper
56	100		
84	100.9	0.0	0.0#

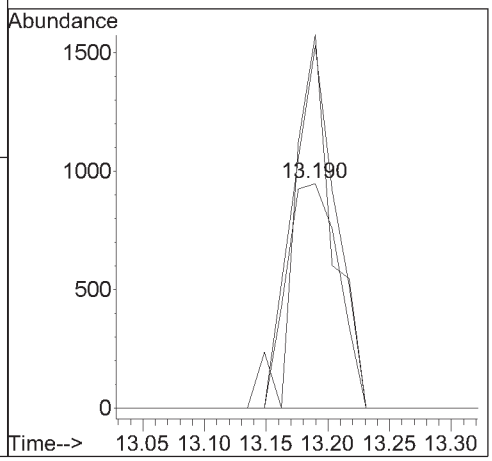


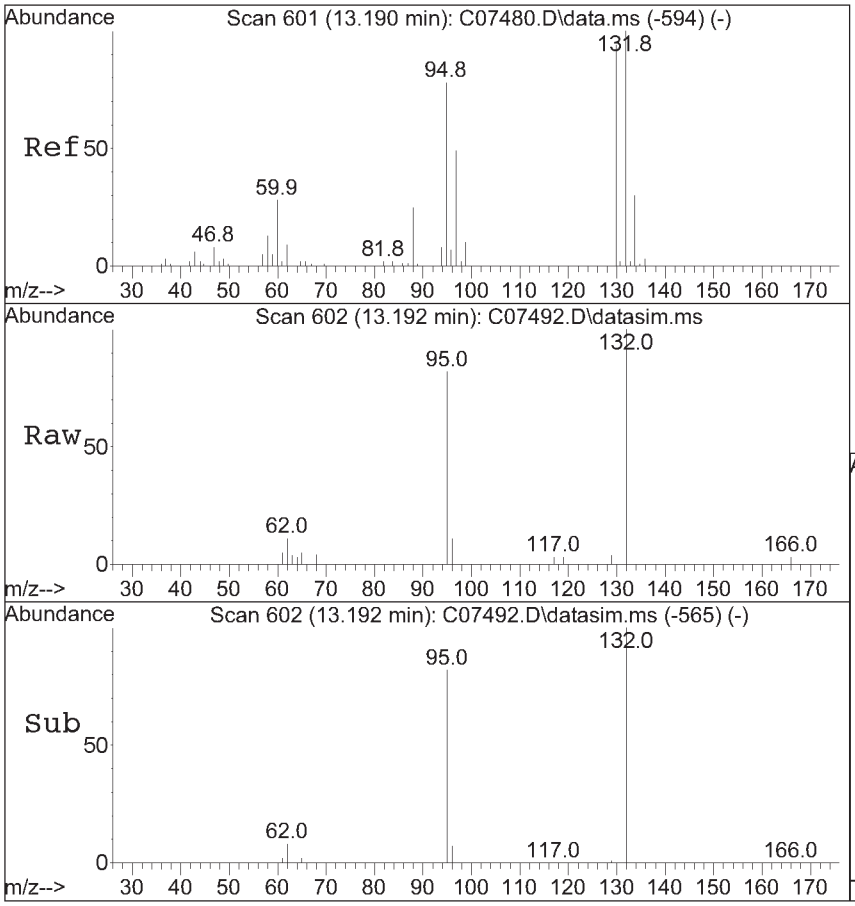


#40
TRICHLOROETHENE
Concen: 0.09 PPBv
RT: 13.191 min Scan# 601
Delta R.T. 0.000 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 95 Resp: 27977

Ion	Ratio	Lower	Upper
95	100		
132	133.7	0.0	0.0#
130	120.1	0.0	0.0#

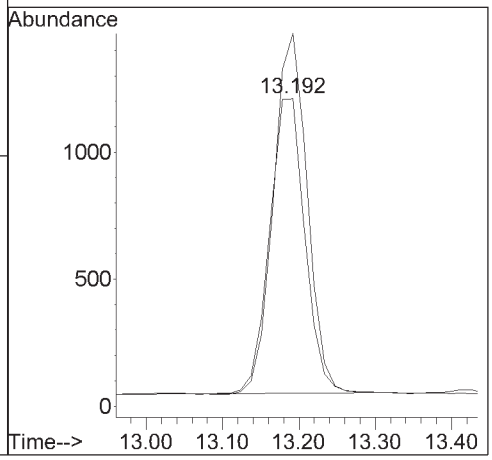


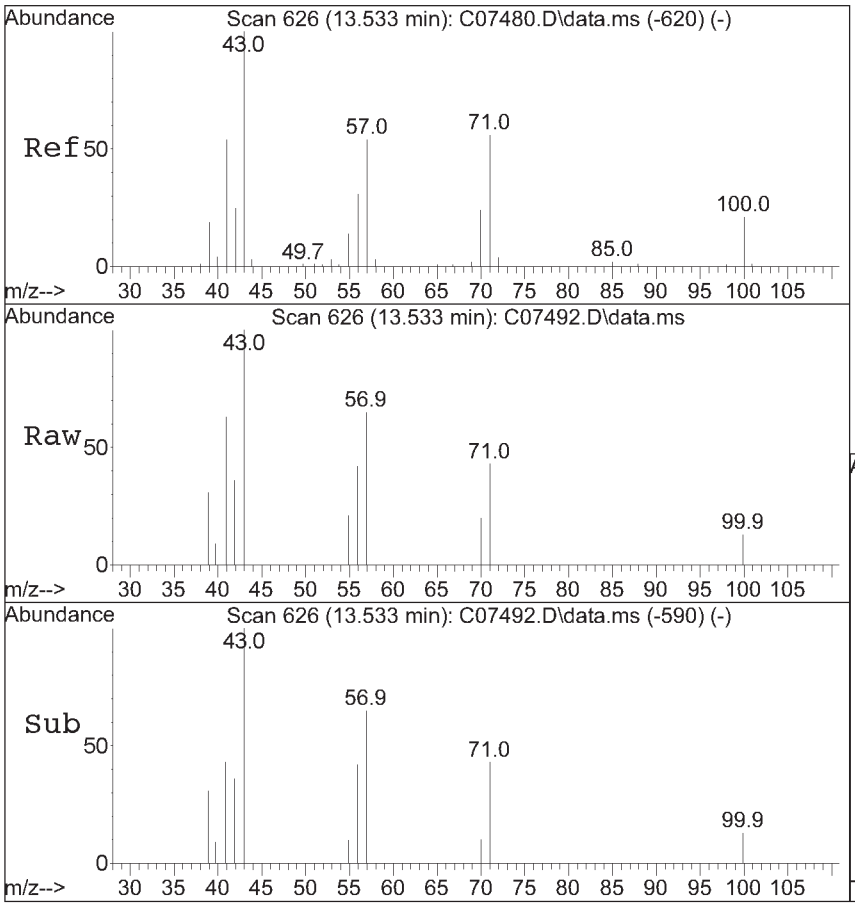


#41
TRICHLOROETHENE (SIM)
Concen: 0.09 PPBv
RT: 13.190 min Scan# 602
Delta R.T. 0.002 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 95 Resp: 37113

Ion	Ratio	Lower	Upper
95	100		
132	117.4	0.0	0.0#

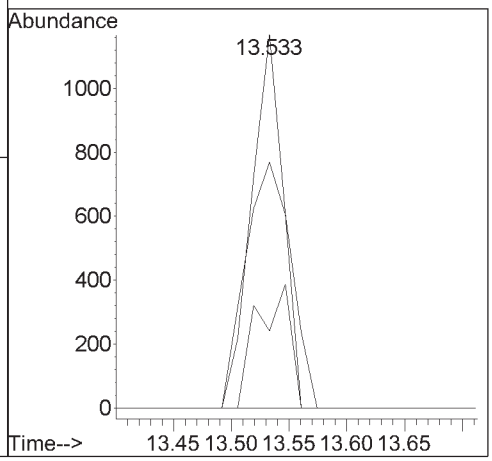


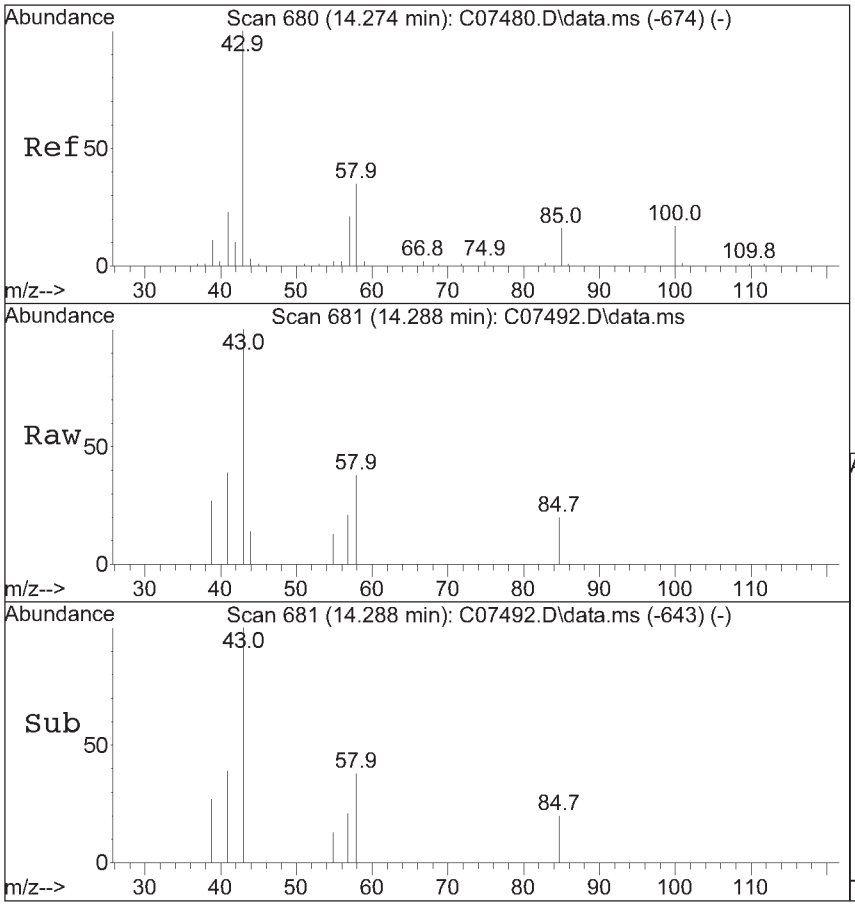


#43
HEPTANE
Concen: 0.11 PPBv m
RT: 13.533 min Scan# 626
Delta R.T. -0.002 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 57 Resp: 24332

Ion	Ratio	Lower	Upper
57	100		
71	0.0	0.0	0.0
100	0.0	0.0	0.0

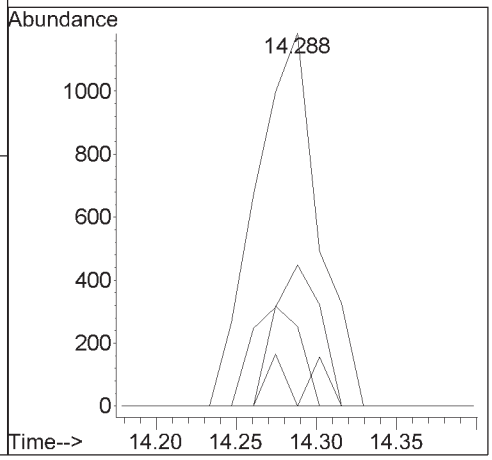


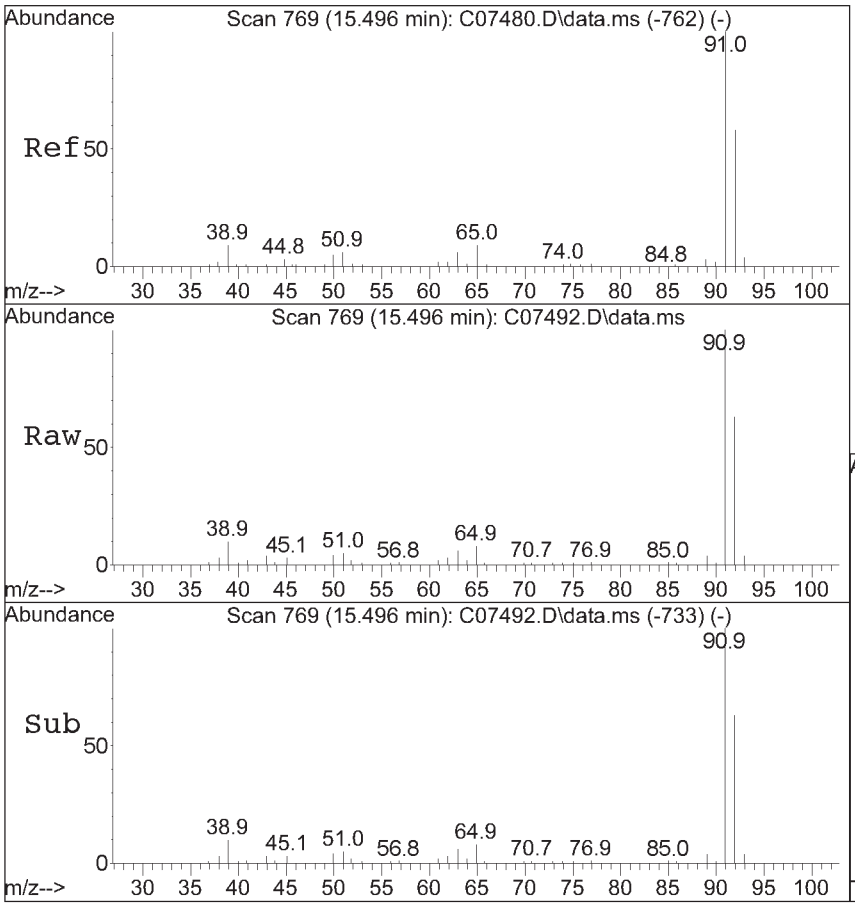


#44
MIBK
Concen: 0.06 PPBv
RT: 14.288 min Scan# 681
Delta R.T. 0.015 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 43 Resp: 32411

Ion	Ratio	Lower	Upper
43	100		
58	0.0	0.0	0.0
57	0.0	0.0	0.0
100	0.0	0.0	0.0

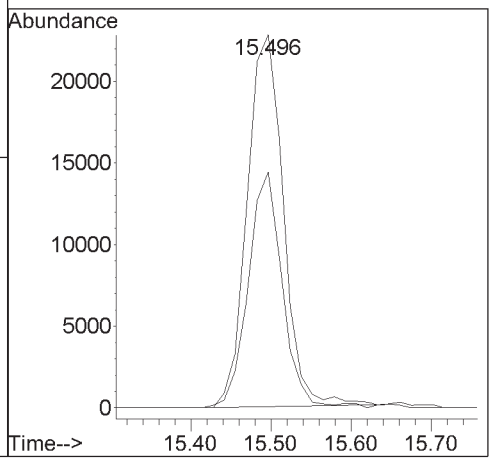


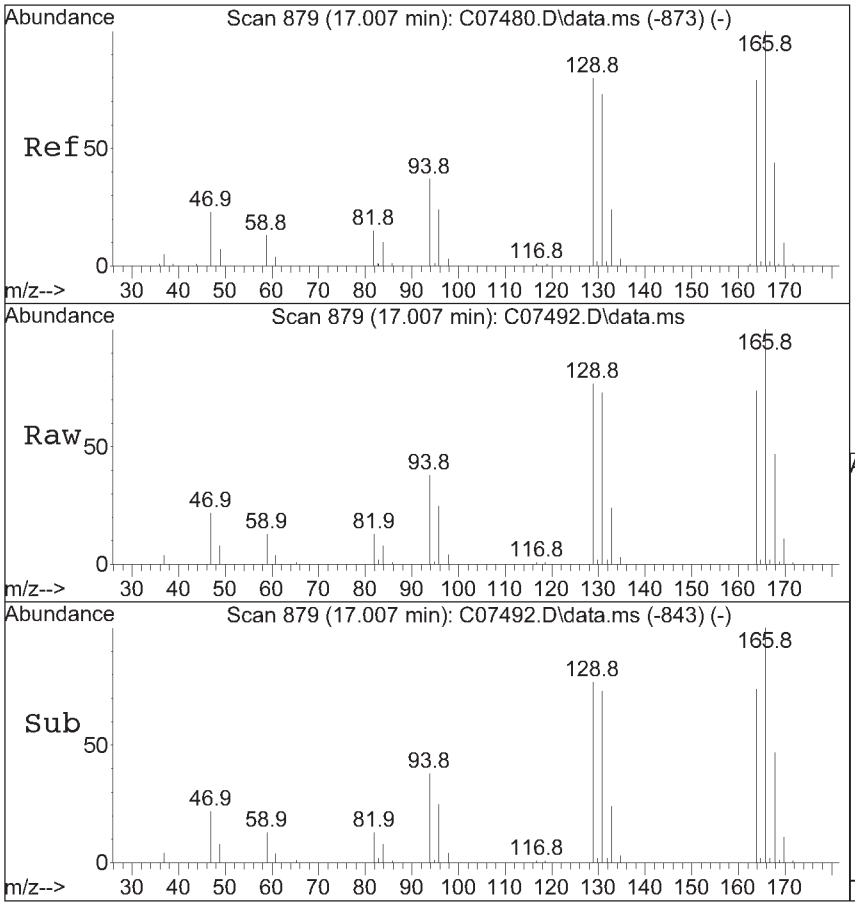


#48
TOLUENE
Concen: 0.82 PPBv
RT: 15.498 min Scan# 769
Delta R.T. 0.002 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 91 Resp: 713859

Ion	Ratio	Lower	Upper
91	100		
92	59.5	0.0	0.0#

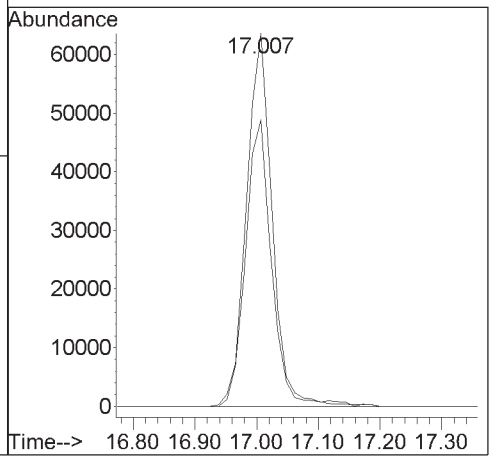


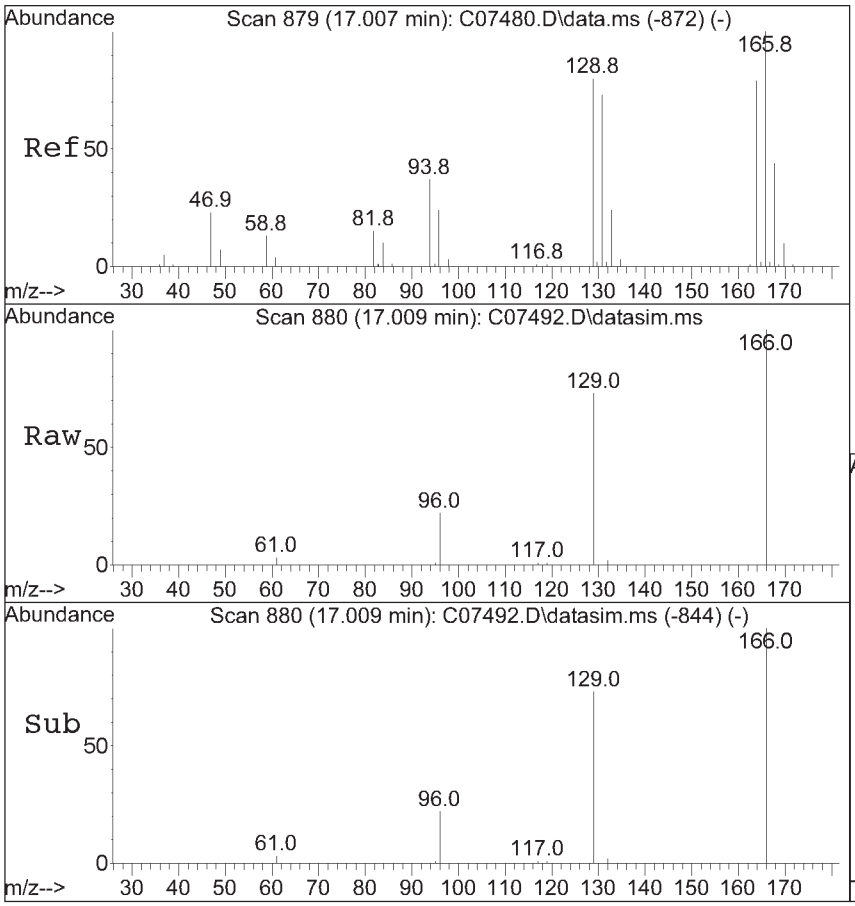


#52
TETRACHLOROETHENE
Concen: 4.05 PPBv
RT: 17.009 min Scan# 879
Delta R.T. 0.001 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:166 Resp: 1845455

Ion	Ratio	Lower	Upper
166	100		
129	77.7	0.0	0.0#
138	0.0	0.0	0.0

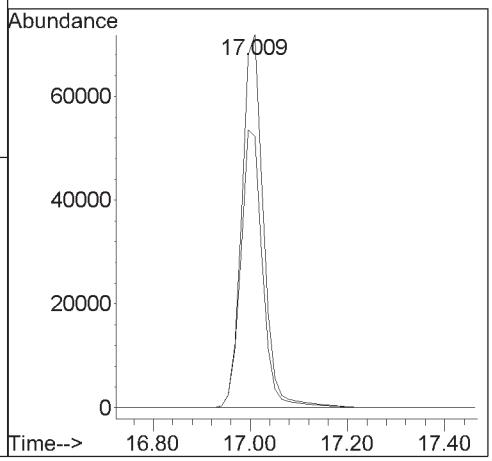


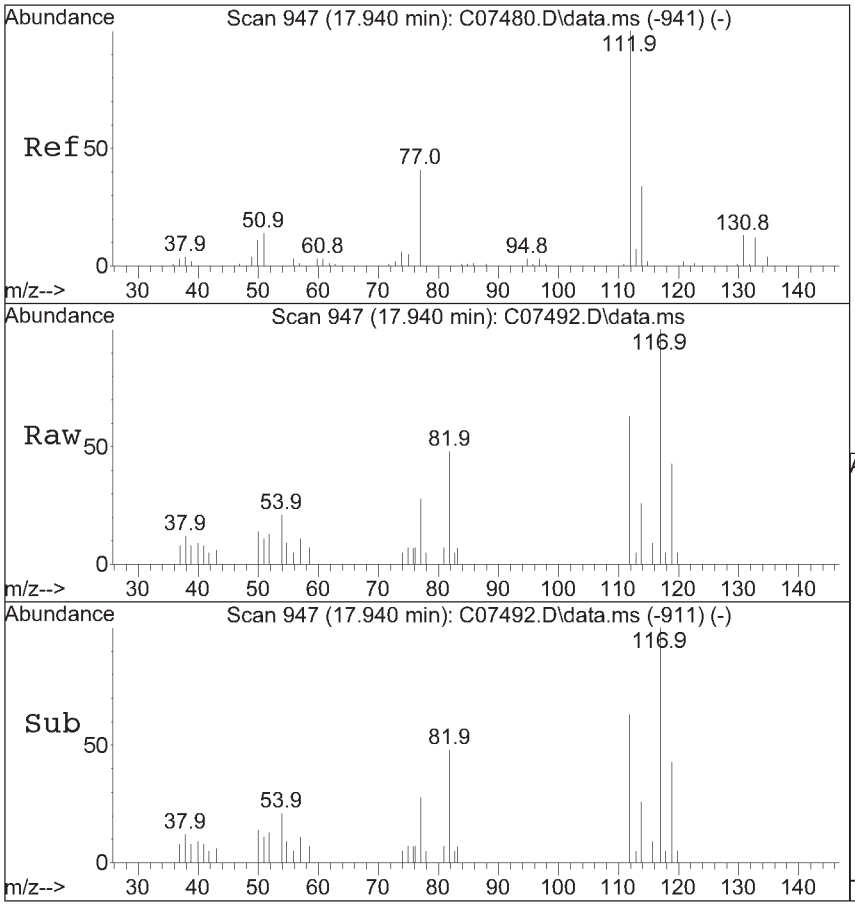


#53
TETRACHLOROETHENE (SIM)
Concen: 4.16 PPBv
RT: 17.009 min Scan# 880
Delta R.T. 0.000 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:166 Resp: 2217898

Ion	Ratio	Lower	Upper
166	100		
129	75.1	0.0	0.0#

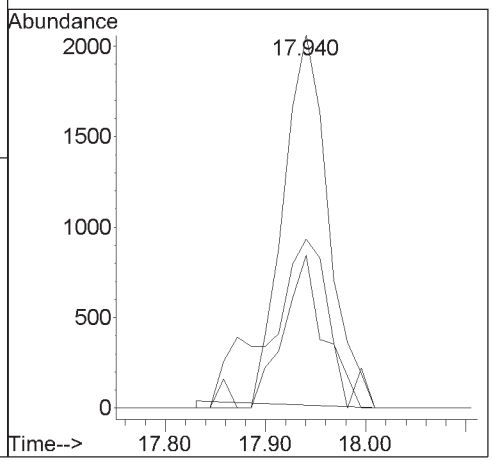


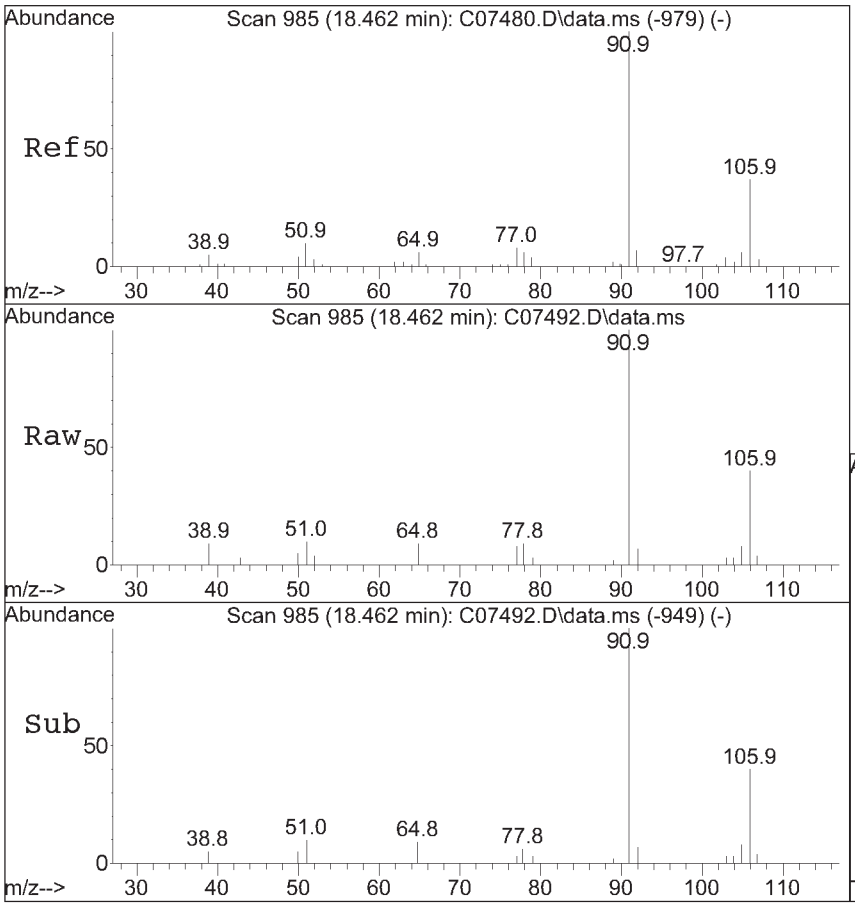


#55
CHLOROBENZENE
Concen: 0.07 PPBv
RT: 17.945 min Scan# 947
Delta R.T. 0.003 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:112 Resp: 63736

Ion	Ratio	Lower	Upper
112	100		
114	37.4	0.0	0.0#
77	63.2	0.0	0.0#

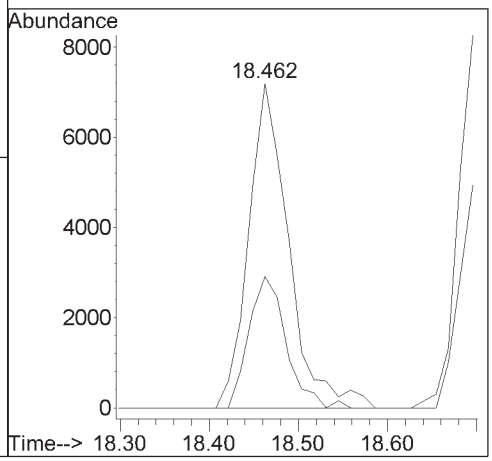


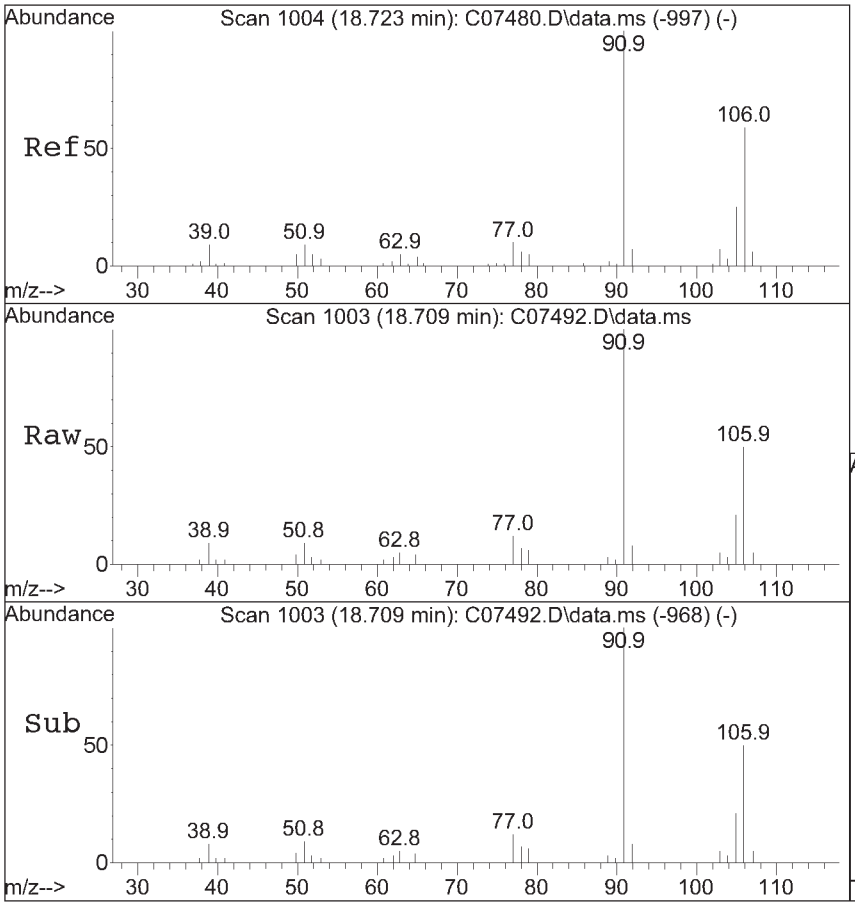


#57
ETHYLBENZENE
Concen: 0.20 PPBv
RT: 18.469 min Scan# 985
Delta R.T. -0.000 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion: 91 Resp: 224341

Ion	Ratio	Lower	Upper
91	100		
106	37.7	0.0	0.0#

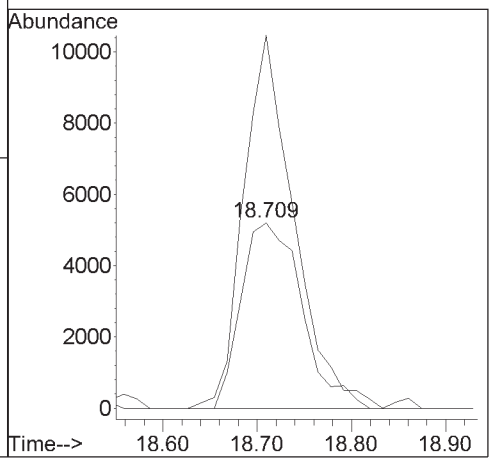


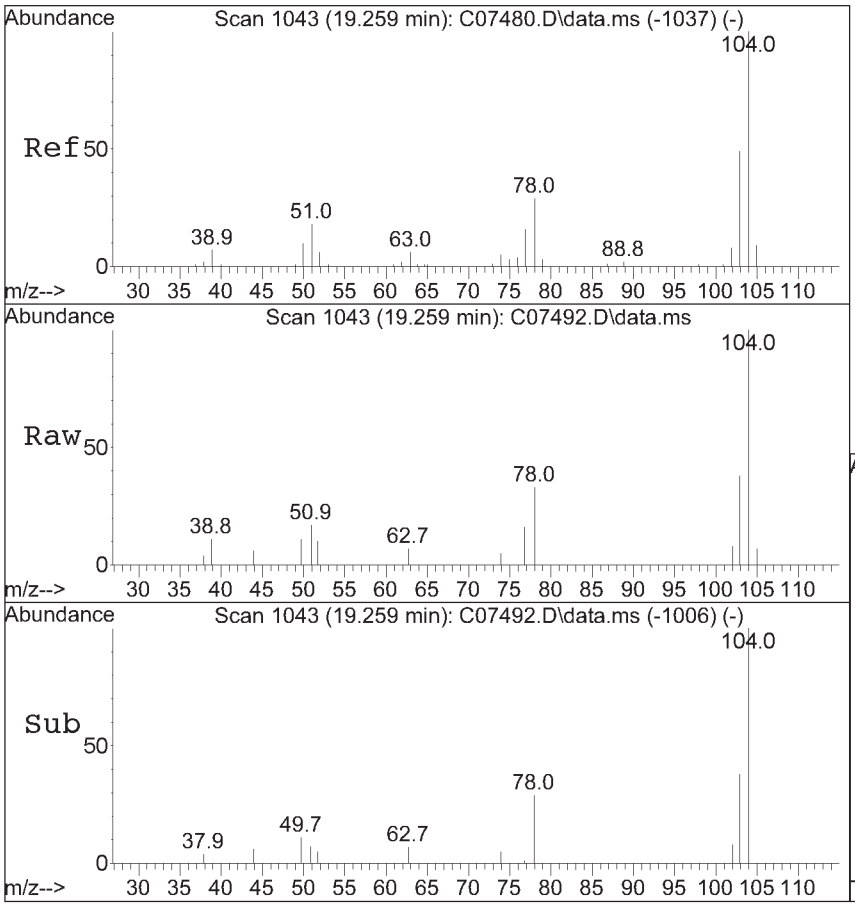


#58
M/P-XYLENE
Concen: 0.43 PPBv
RT: 18.714 min Scan# 1003
Delta R.T. -0.012 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:106 Resp: 232780

Ion	Ratio	Lower	Upper
106	100		
91	165.6	0.0	0.0#

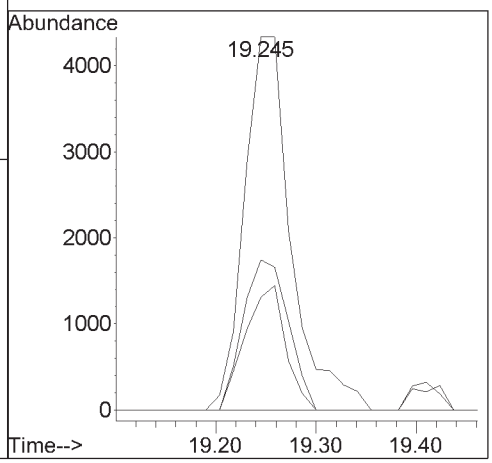


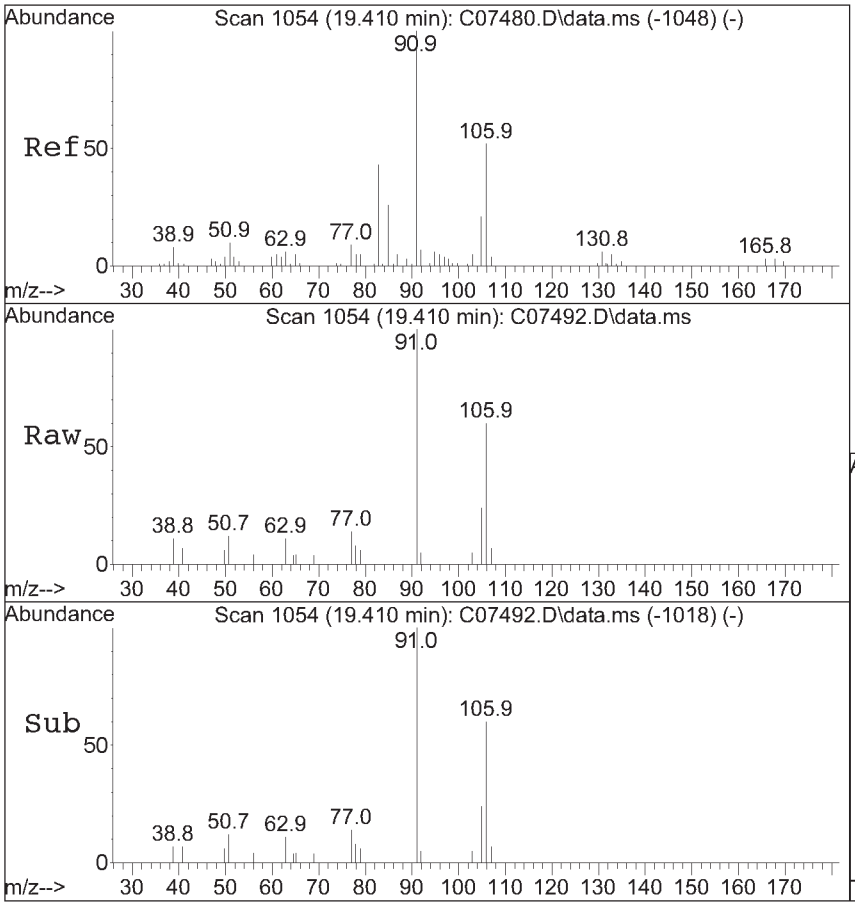


#60
STYRENE
Concen: 0.22 PPBv
RT: 19.256 min Scan# 1043
Delta R.T. 0.000 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:104 Resp: 141056

Ion	Ratio	Lower	Upper
104	100		
103	38.8	0.0	0.0#
78	28.6	0.0	0.0#

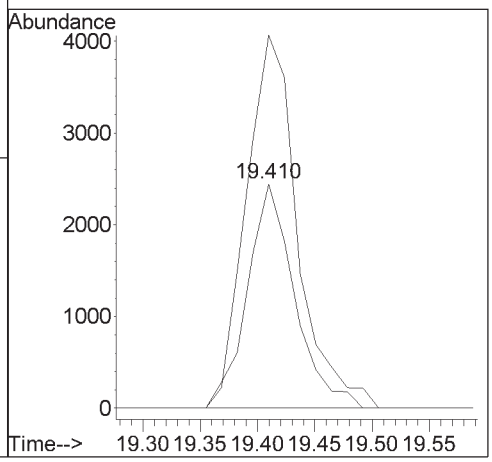


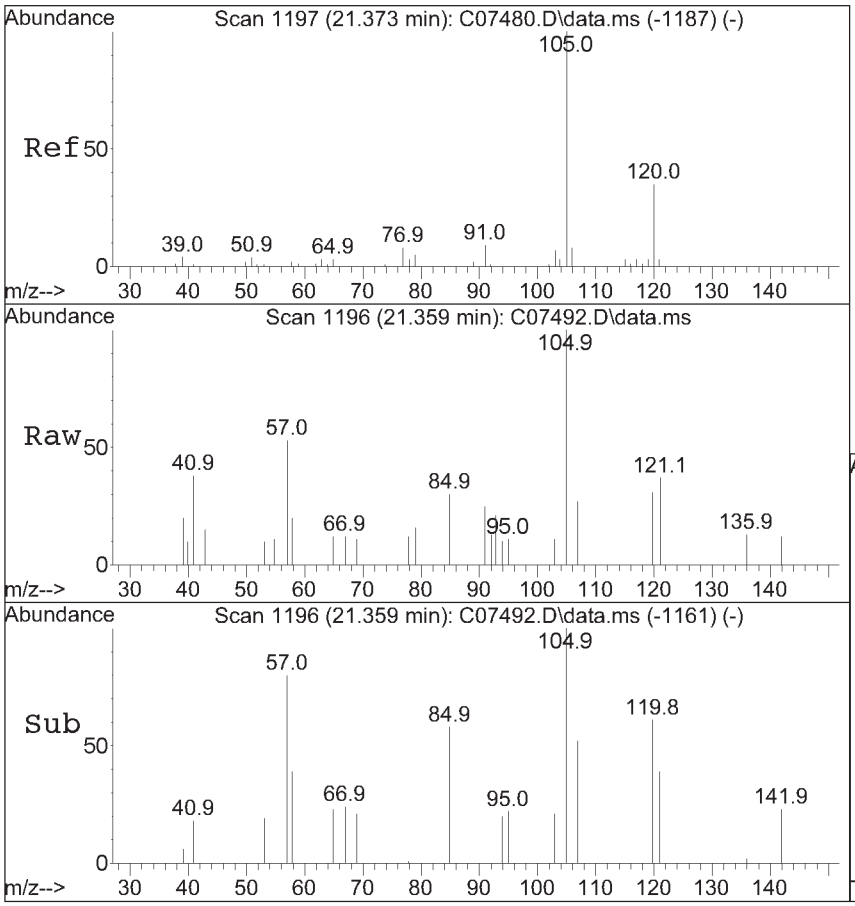


#61
O-XYLENE
Concen: 0.14 PPBv
RT: 19.415 min Scan# 1054
Delta R.T. -0.002 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:106 Resp: 70290

Ion	Ratio	Lower	Upper
106	100		
91	180.2	0.0	0.0#

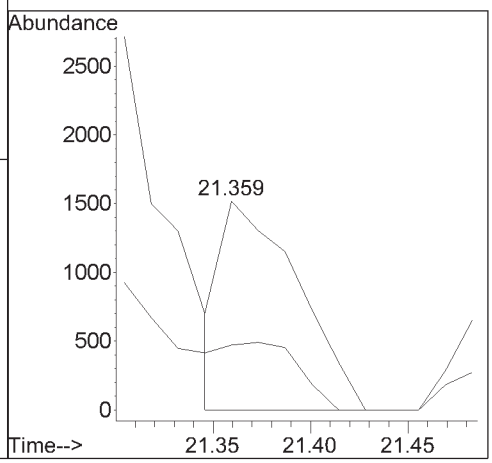


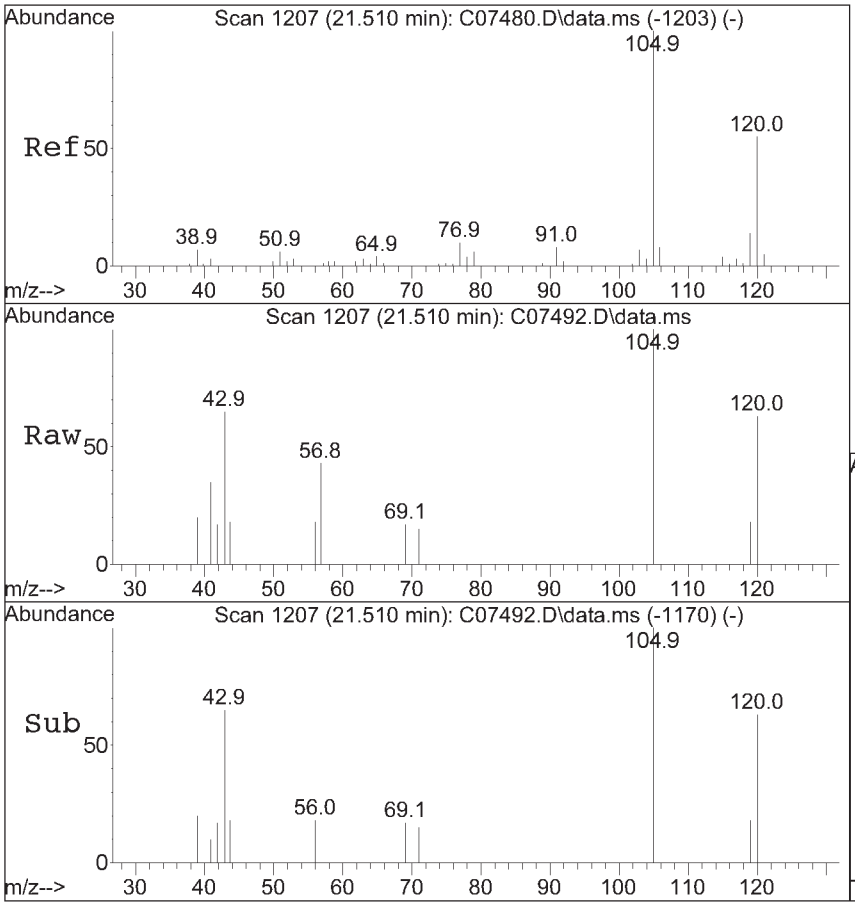


#65
4-ETHYLTOLUENE
Concen: 0.03 PPBv m
RT: 21.359 min Scan# 1196
Delta R.T. -0.018 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:105 Resp: 41125

Ion	Ratio	Lower	Upper
105	100		
120	73.7	0.0	0.0#

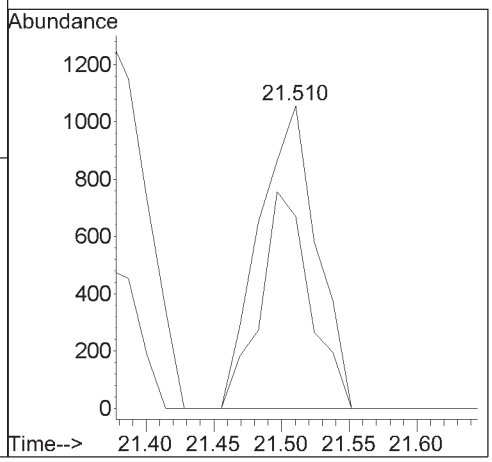


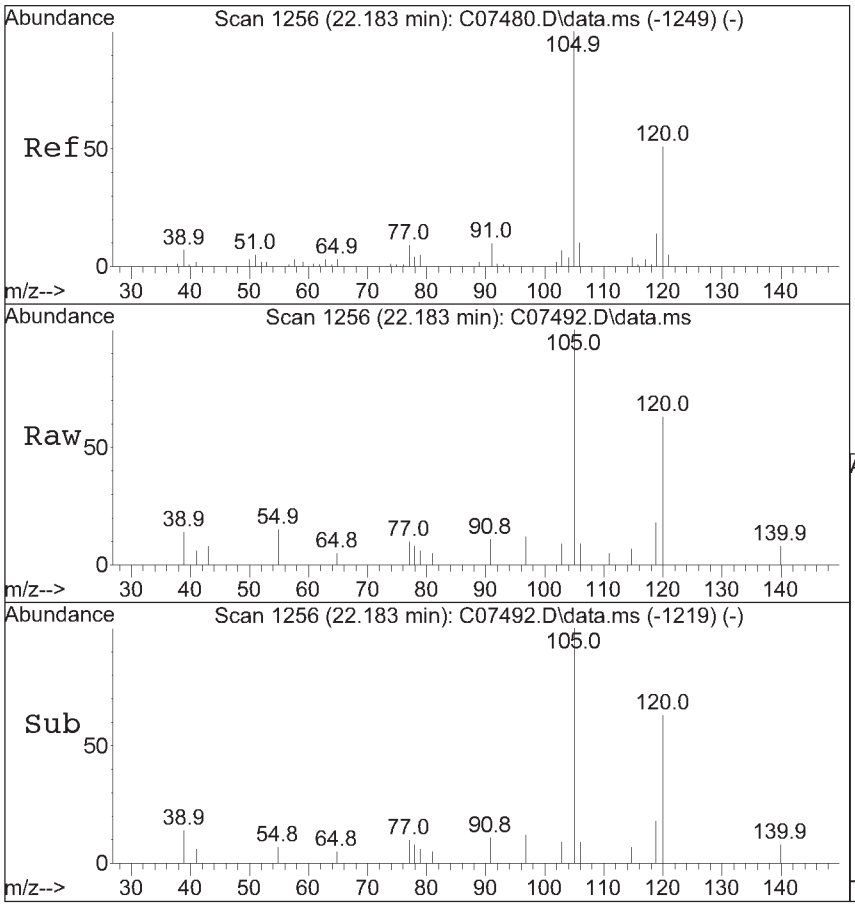


#66
1,3,5-TRIMETHYLBENZENE
Concen: 0.03 PPBv m
RT: 21.510 min Scan# 1207
Delta R.T. 0.003 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:105 Resp: 31447

Ion	Ratio	Lower	Upper
105	100		
120	0.0	0.0	0.0

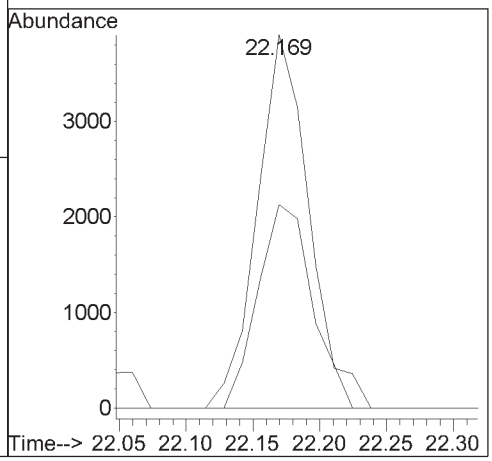


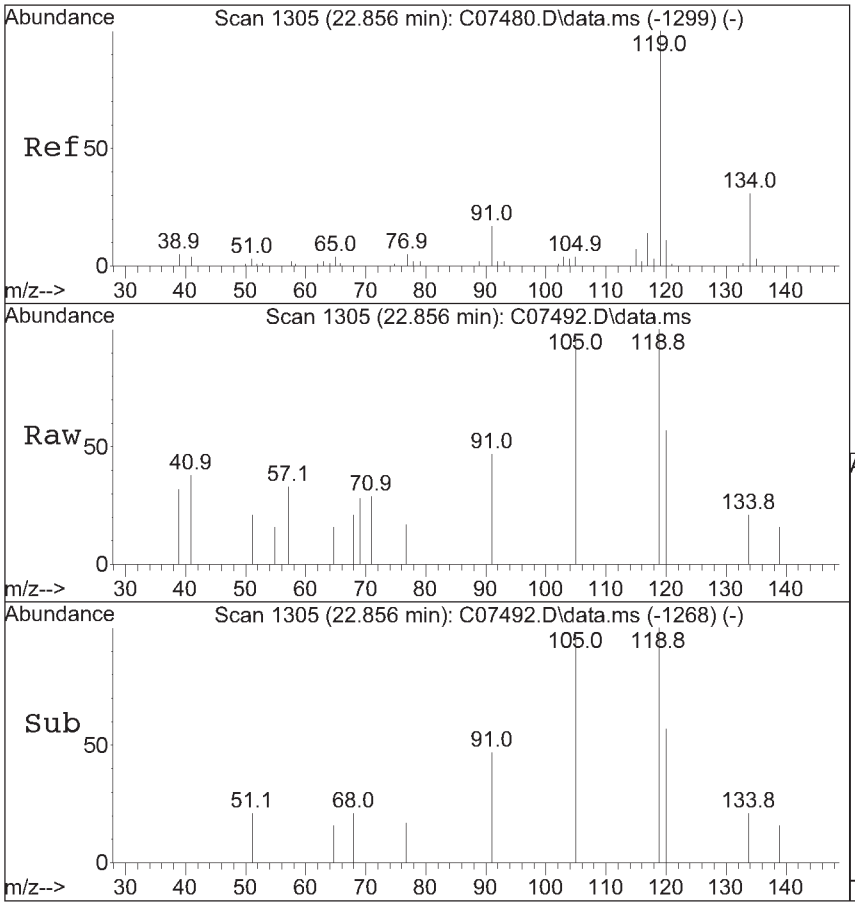


#67
1,2,4-TRIMETHYLBENZENE
Concen: 0.11 PPBv
RT: 22.177 min Scan# 1256
Delta R.T. -0.002 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:105 Resp: 105494

Ion	Ratio	Lower	Upper
105	100		
120	56.9	0.0	0.0#

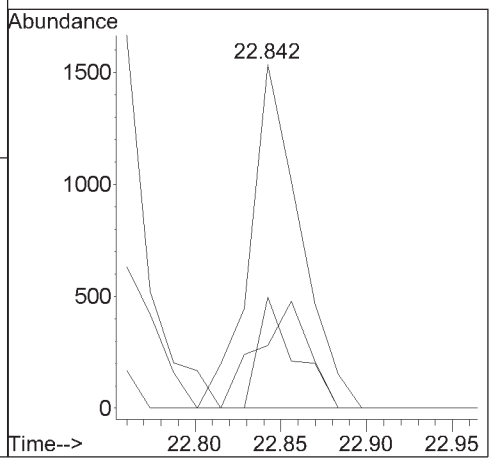


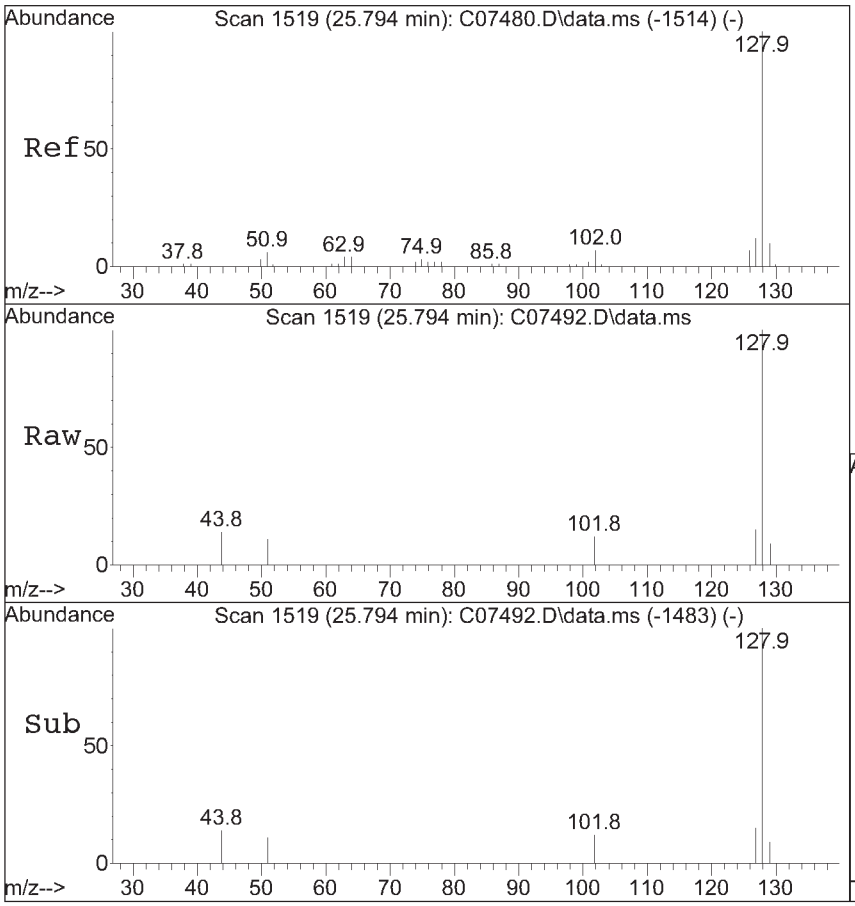


#72
4-ISOPROPYLTOLUENE
Concen: 0.02 PPBv
RT: 22.850 min Scan# 1305
Delta R.T. -0.004 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:119 Resp: 31343

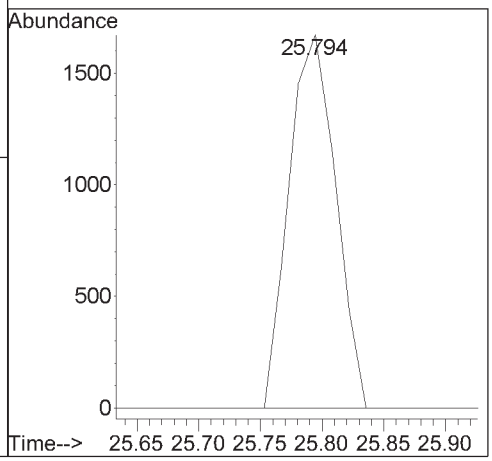
Ion	Ratio	Lower	Upper
119	100		
134	0.0	0.0	0.0
91	0.0	0.0	0.0





#76
NAPHTHALENE
Concen: 0.04 PPBv
RT: 25.797 min Scan# 1519
Delta R.T. -0.001 min
Lab File: C07492.D
Acq: 10 Mar 2011 9:27 pm

Tgt Ion:128 Resp: 44076



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

B2-IA1-030211

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Project Number:	K0336			Received:	03/03/11 18:45
Matrix:	Air	Laboratory ID:	SB25245-12	File ID:	A39615.D
Sampled:	03/03/11 10:17			Analyzed:	03/08/11 22:22
Dilution Factor:	1	Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Batch:	1104127	Sequence:	S101712	Calibration:	1103003
Instrument:	Air1				

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
64-17-5	Ethanol	8.22	15.50	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\030811\A39615.D Vial: 15
Acq On : 8 Mar 2011 10:22 pm Operator: KG
Sample : sb25245-12 @ b2-ia1 1x to-15 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 11 17:19 2011 Quant Results File: T1022411.RES

Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

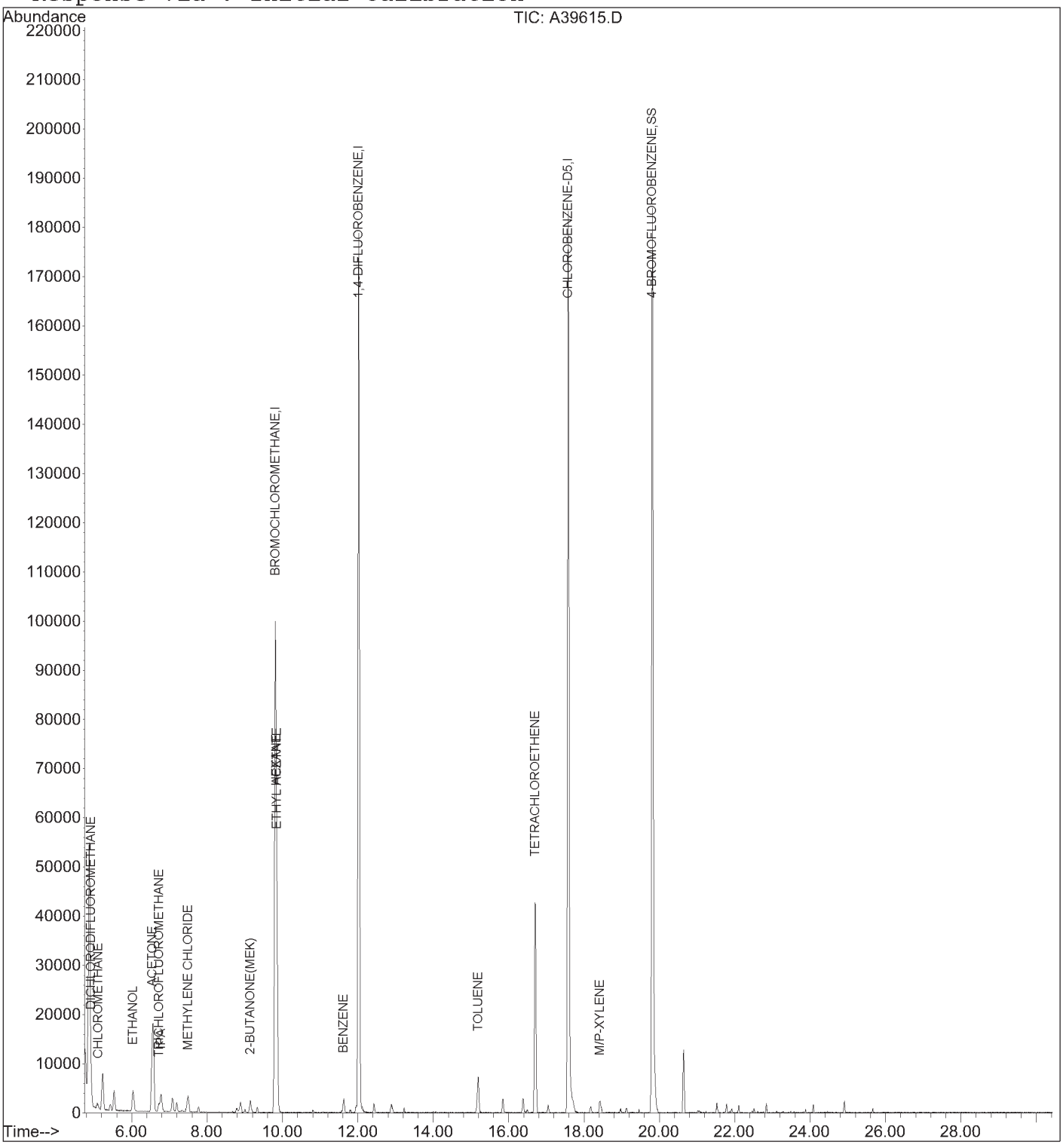
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.81	128	420207	10.00	PPBv	0.00
33) 1,4-DIFLUOROBENZENE	12.02	114	2087776	10.00	PPBv	-0.01
48) CHLOROBENZENE-D5	17.58	82	979293	10.00	PPBv	-0.02
System Monitoring Compounds						
57) 4-BROMOFLUOROBENZENE	19.81	95	1127715	10.32	PPBv	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.20%			
Target Compounds						Qvalue
3) DICHLORODIFLUOROMETHANE	4.92	85	77748	0.70	PPBv #	49
4) CHLOROMETHANE	5.11	50	20237m	0.52	PPBv	
10) ACETONE	6.54	58	72372	5.52	PPBv	74
11) TRICHLOROFLUOROMETHANE	6.71	101	28249m	0.33	PPBv	
12) ETHANOL	6.03	45	80374	8.22	PPBv #	43
15) METHYLENE CHLORIDE	7.50	84	24171m	0.89	PPBv	
21) IPA	6.78	45	70493	1.80	PPBv #	61
22) 2-BUTANONE(MEK)	9.15	72	12105m	0.58	PPBv	
24) HEXANE	9.85	57	213460	3.29	PPBv #	27
25) ETHYL ACETATE	9.86	61	7940m	1.04	PPBv	
30) BENZENE	11.62	78	42648	0.33	PPBv	100
43) TOLUENE	15.19	91	92270	0.62	PPBv	98
47) TETRACHLOROETHENE	16.71	166	205885	2.86	PPBv	98
52) M/P-XYLENE	18.42	106	22868m	0.34	PPBv	

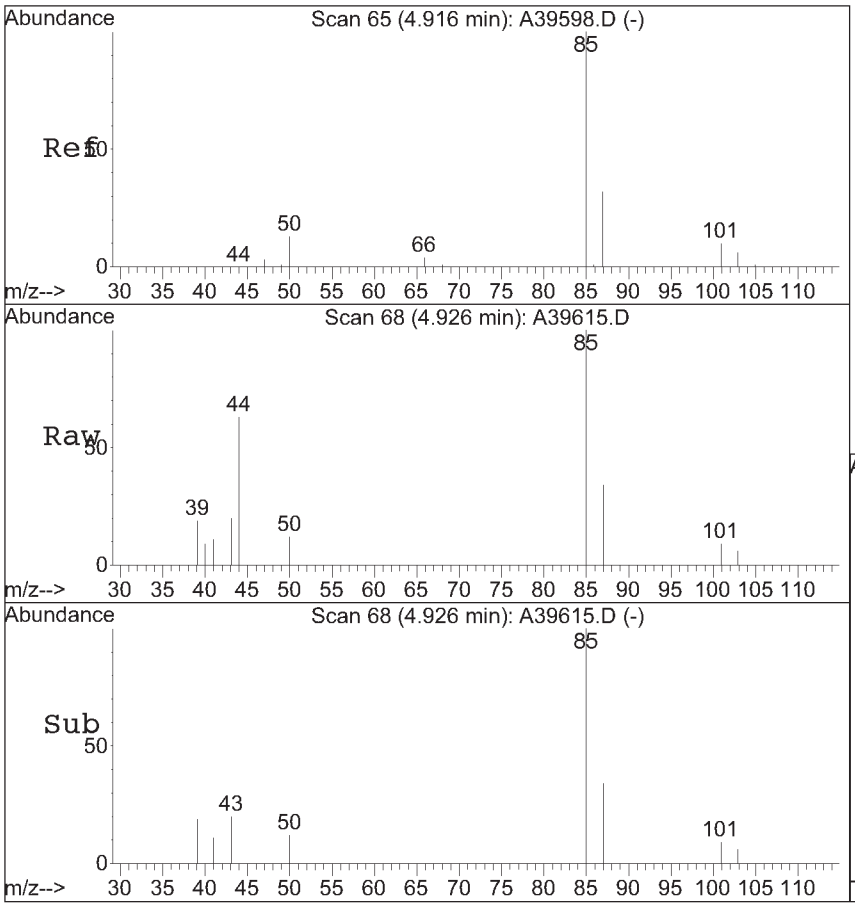
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030811\A39615.D Vial: 15
Acq On : 8 Mar 2011 10:22 pm Operator: KG
Sample : sb25245-12 @ b2-ia1 1x to-15 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 11 17:19 2011 Quant Results File: T1022411.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration

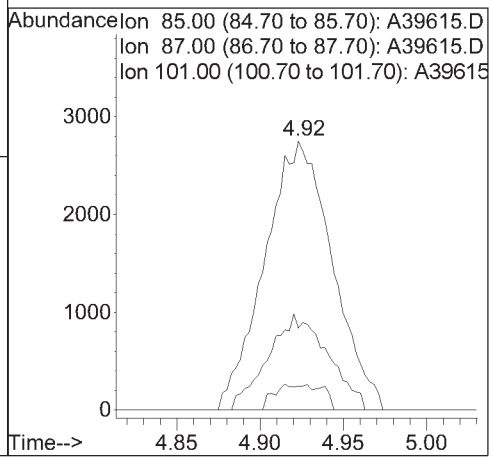


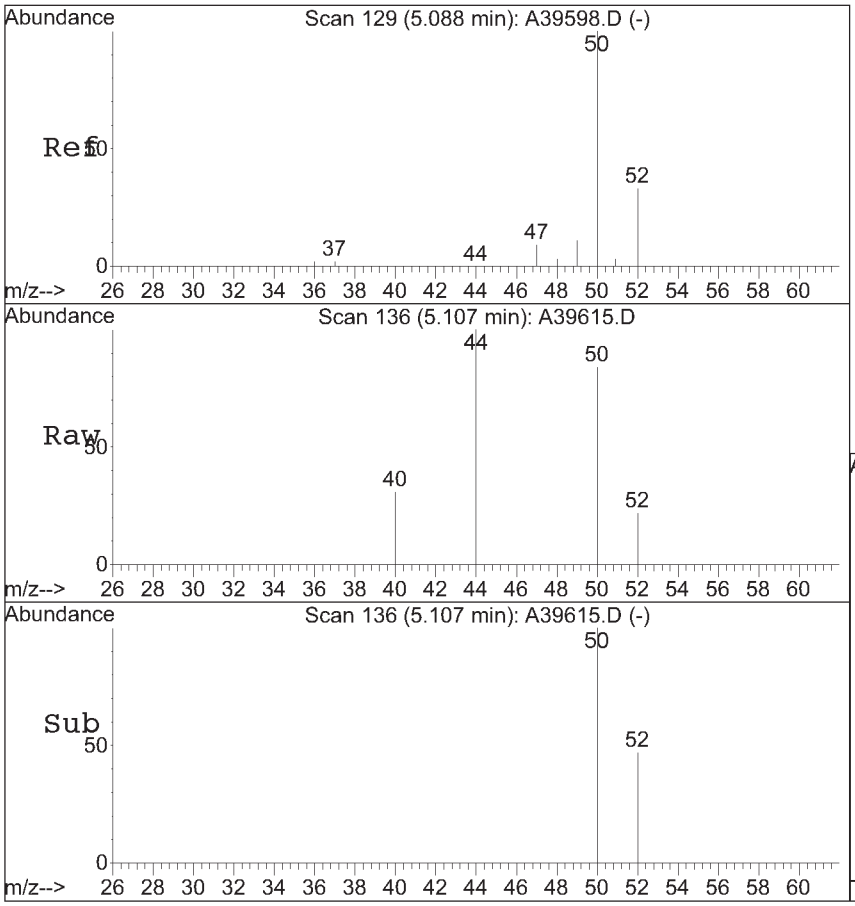


#3
DICHLORODIFLUOROMETHANE
Concen: 0.70 PPBv
RT: 4.92 min Scan# 68
Delta R.T. 0.01 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion: 85 Resp: 77748

Ion	Ratio	Lower	Upper
85	100		
87	0.0	26.1	39.1#
101	0.0	7.4	11.0#

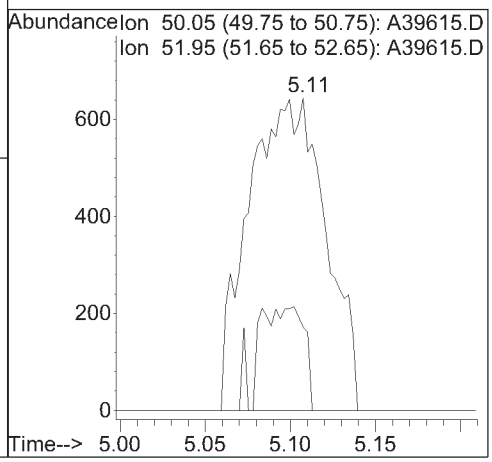


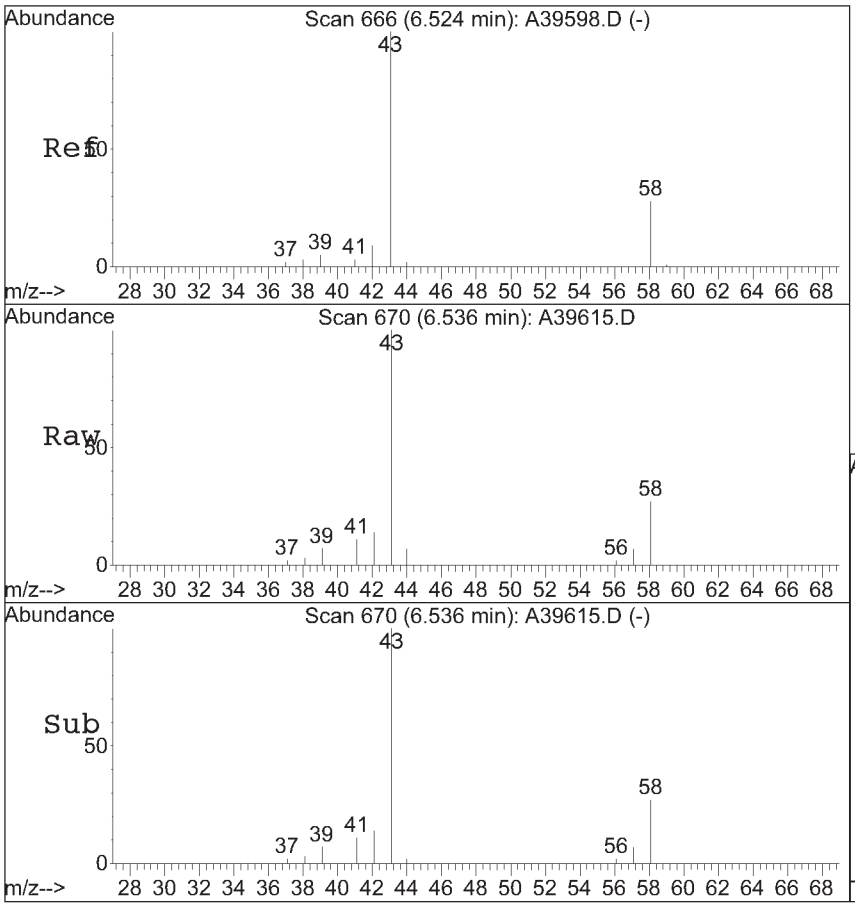


#4
CHLOROMETHANE
Concen: 0.52 PPBv m
RT: 5.11 min Scan# 136
Delta R.T. 0.03 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion: 50 Resp: 20237

Ion	Ratio	Lower	Upper
50	100		
52	0.0	25.3	37.9#

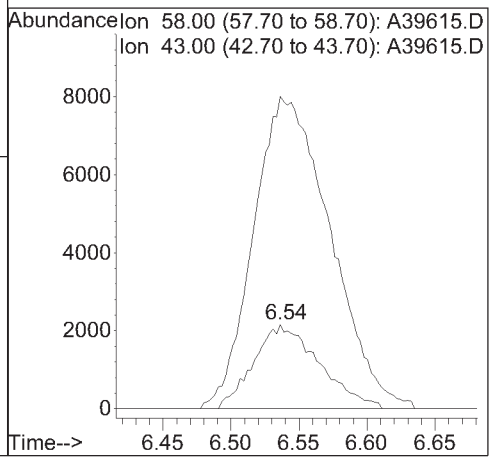


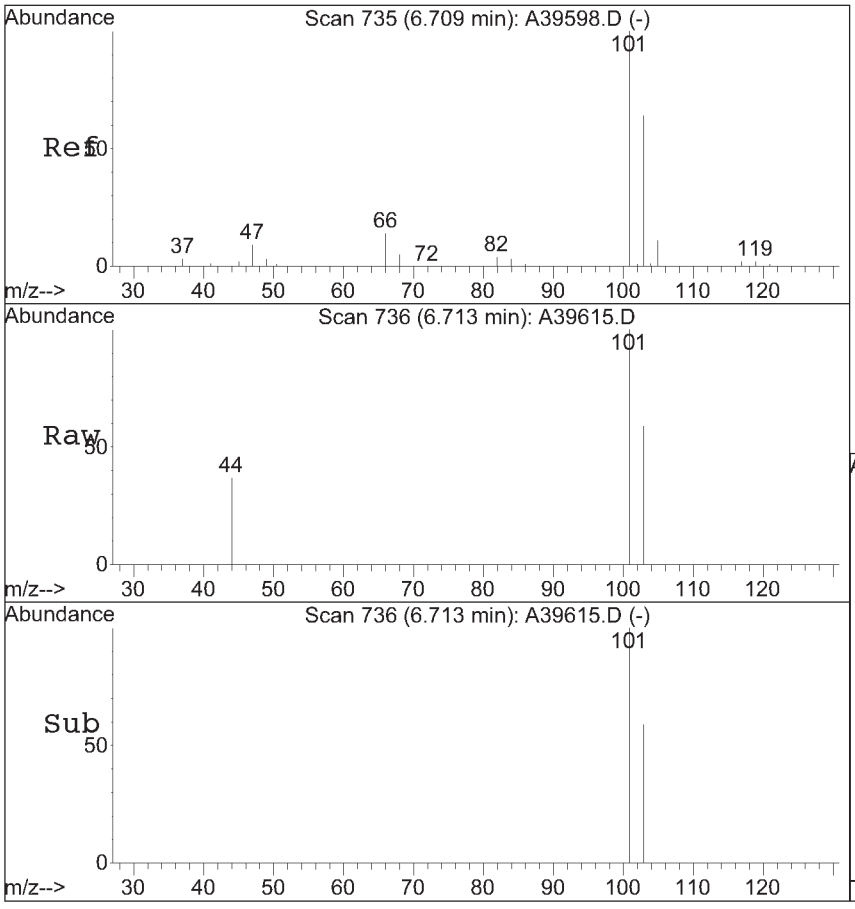


#10
ACETONE
Concen: 5.52 PPBv
RT: 6.54 min Scan# 670
Delta R.T. 0.01 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion: 58 Resp: 72372

Ion	Ratio	Lower	Upper
58	100		
43	433.9	300.2	450.4

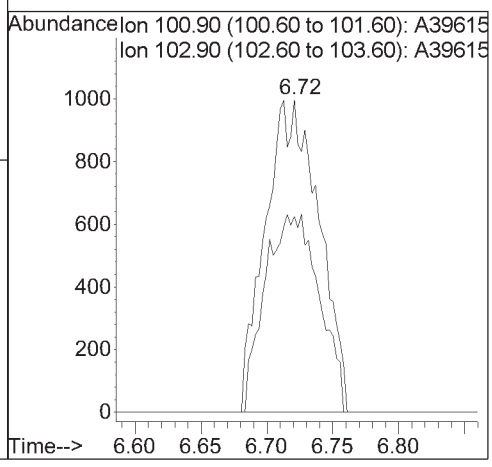


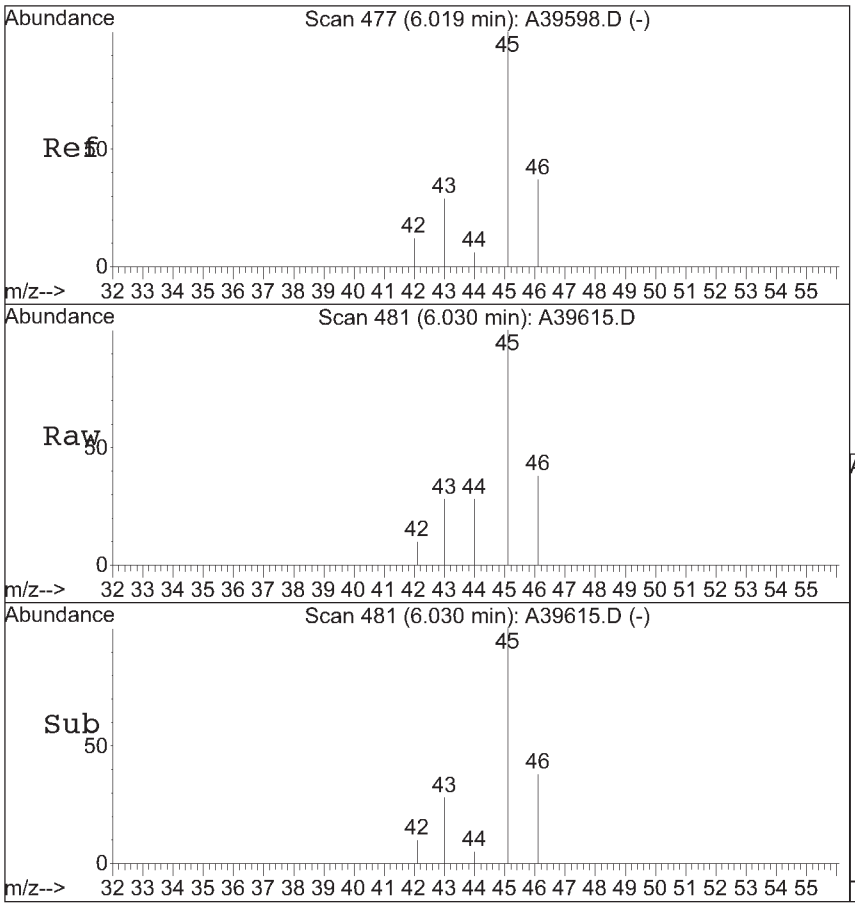


#11
TRICHLOROFLUOROMETHANE
Concen: 0.33 PPBv m
RT: 6.71 min Scan# 736
Delta R.T. 0.00 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion:101 Resp: 28249

Ion	Ratio	Lower	Upper
101	100		
103	0.0	51.8	77.6#

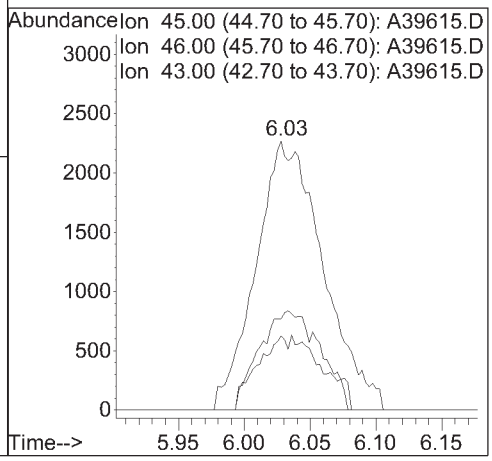


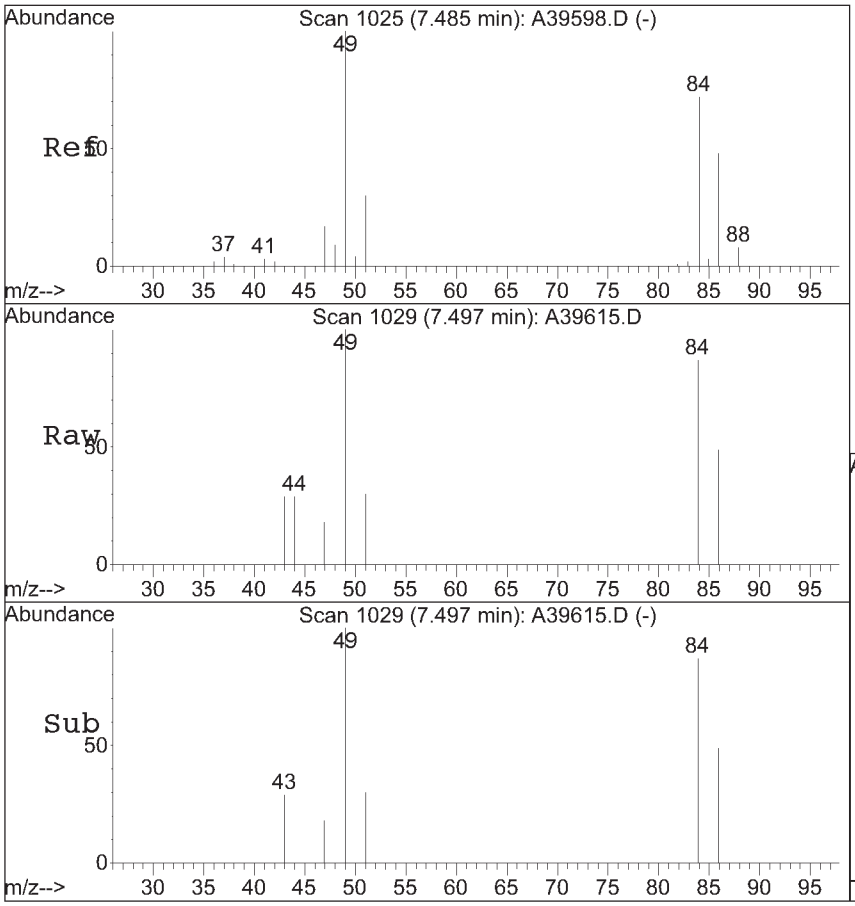


#12
ETHANOL
Concen: 8.22 PPBv
RT: 6.03 min Scan# 481
Delta R.T. 0.00 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion: 45 Resp: 80374

Ion	Ratio	Lower	Upper
45	100		
46	0.0	30.6	46.0#
43	0.0	18.0	27.0#

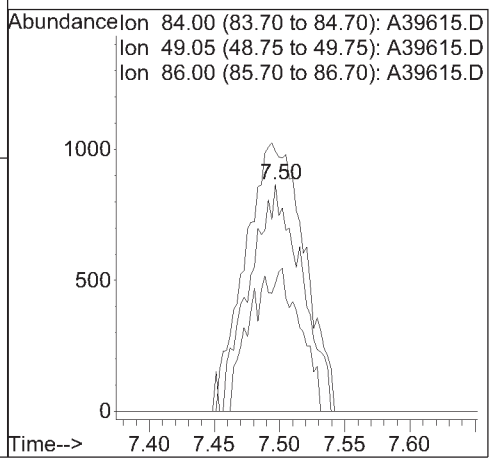


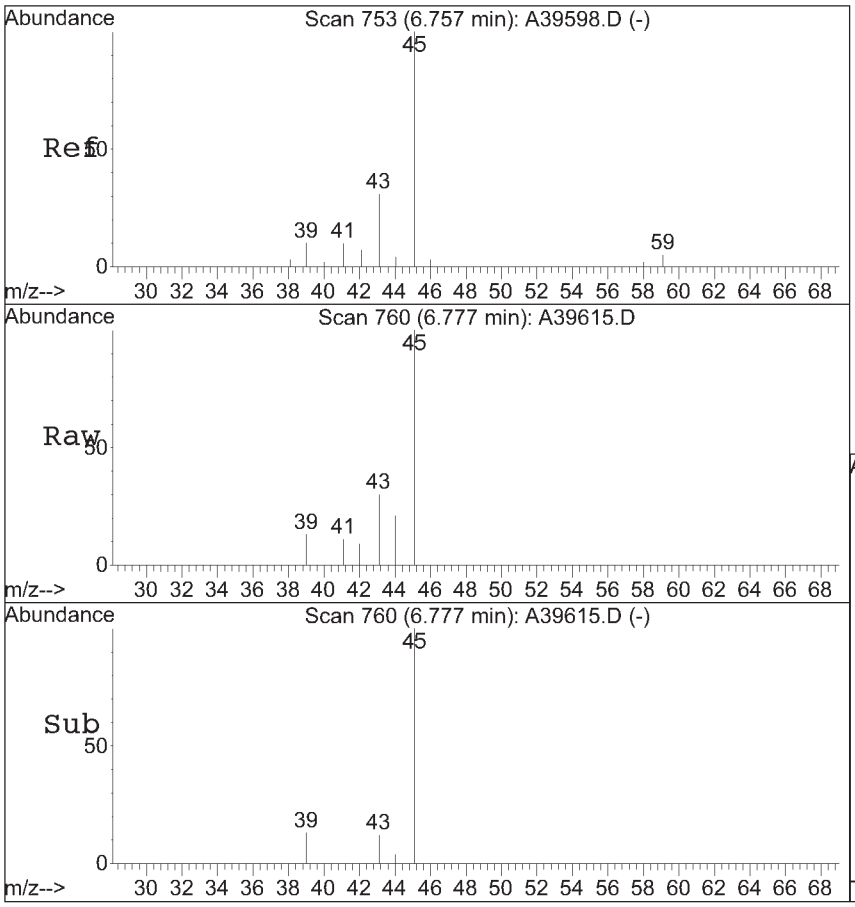


#15
METHYLENE CHLORIDE
Concen: 0.89 PPBv m
RT: 7.50 min Scan# 1029
Delta R.T. 0.00 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion: 84 Resp: 24171

Ion	Ratio	Lower	Upper
84	100		
49	0.0	120.3	180.5#
86	0.0	52.6	78.8#

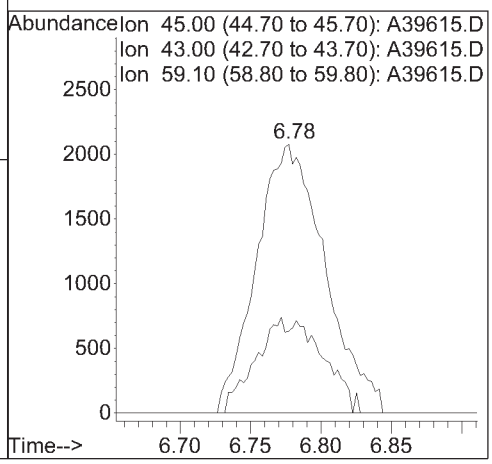


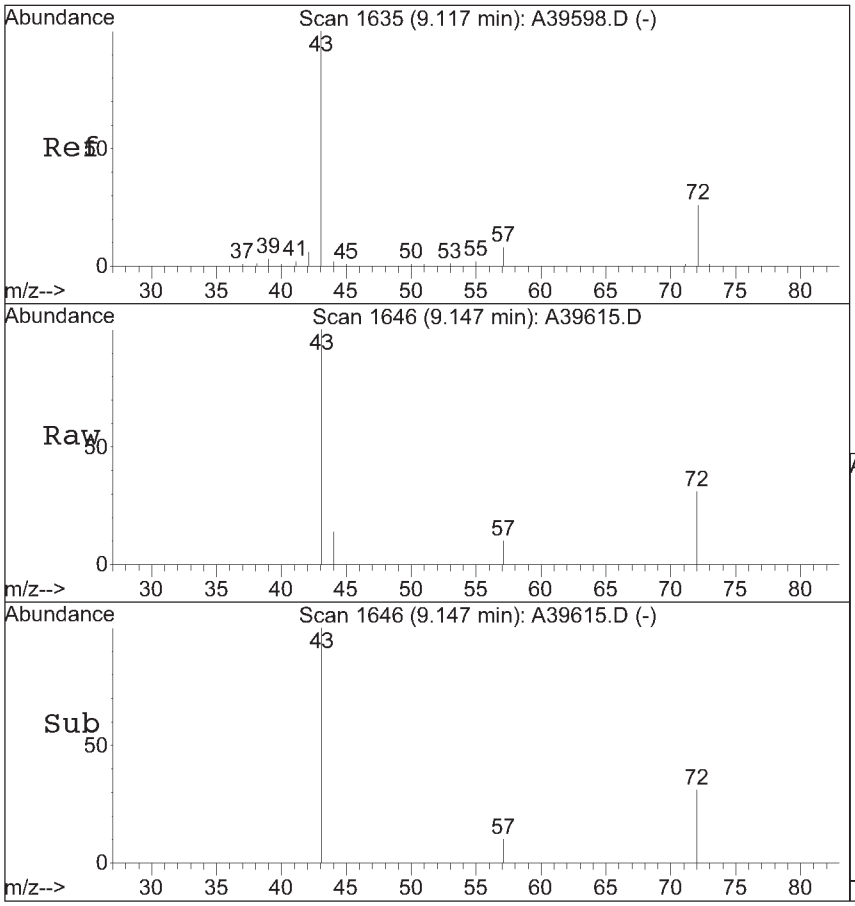


#21
IPA
Concen: 1.80 PPBv
RT: 6.78 min Scan# 760
Delta R.T. 0.01 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion: 45 Resp: 70493

Ion	Ratio	Lower	Upper
45	100		
43	0.0	16.2	24.2#
59	0.0	3.0	4.4#

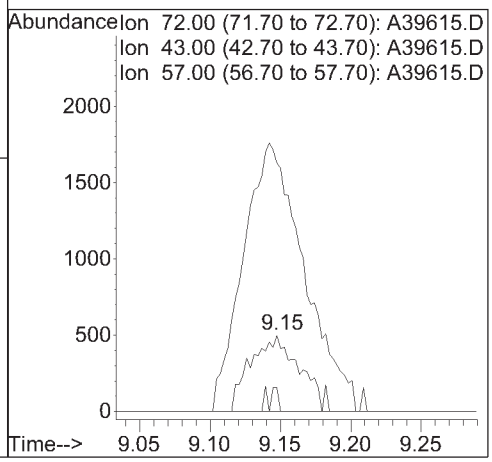


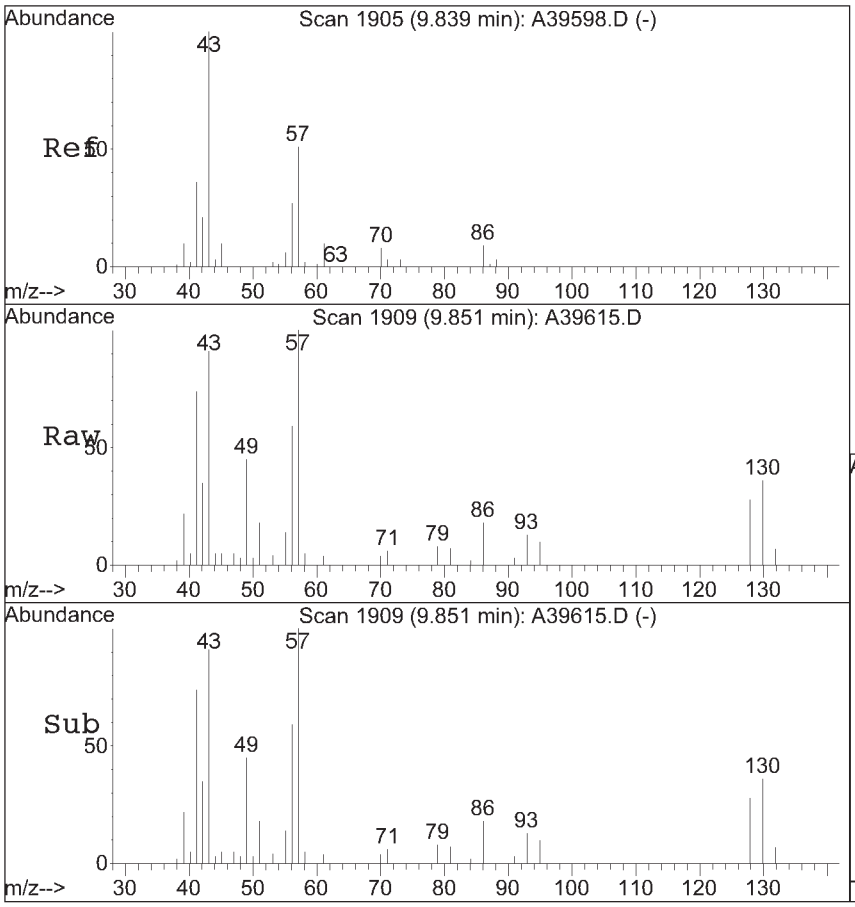


#22
2-BUTANONE(MEK)
Concen: 0.58 PPBv m
RT: 9.15 min Scan# 1646
Delta R.T. 0.01 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion: 72 Resp: 12105

Ion	Ratio	Lower	Upper
72	100		
43	0.0	222.2	333.4#
57	0.0	987.4	1481.0#

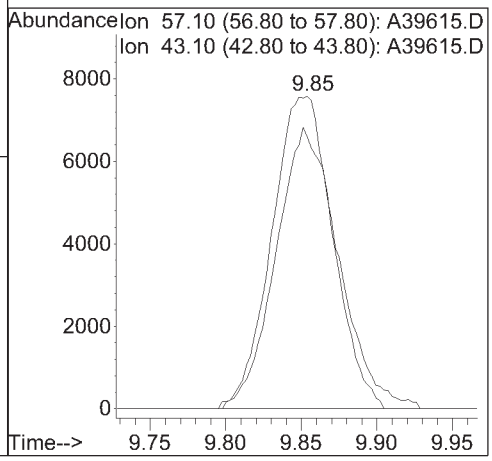


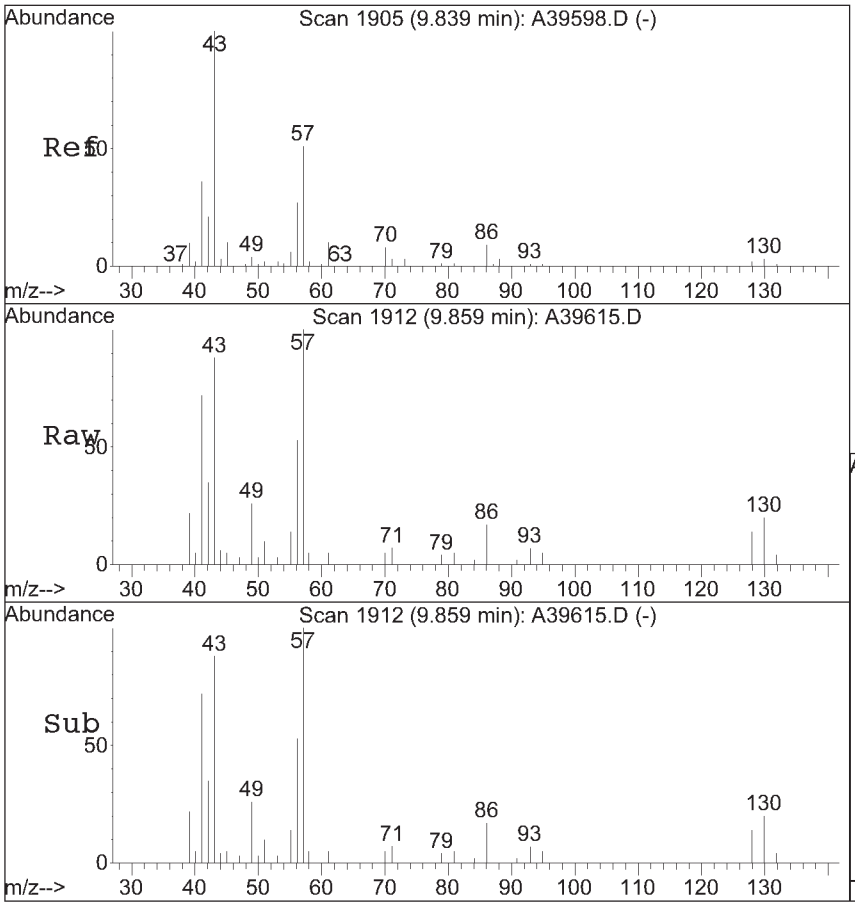


#24
HEXANE
Concen: 3.29 PPBv
RT: 9.85 min Scan# 1909
Delta R.T. -0.00 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion: 57 Resp: 213460

Ion	Ratio	Lower	Upper
57	100		
43	92.3	163.9	245.9#

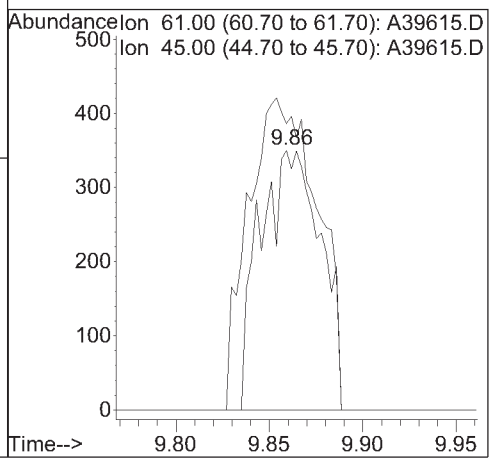


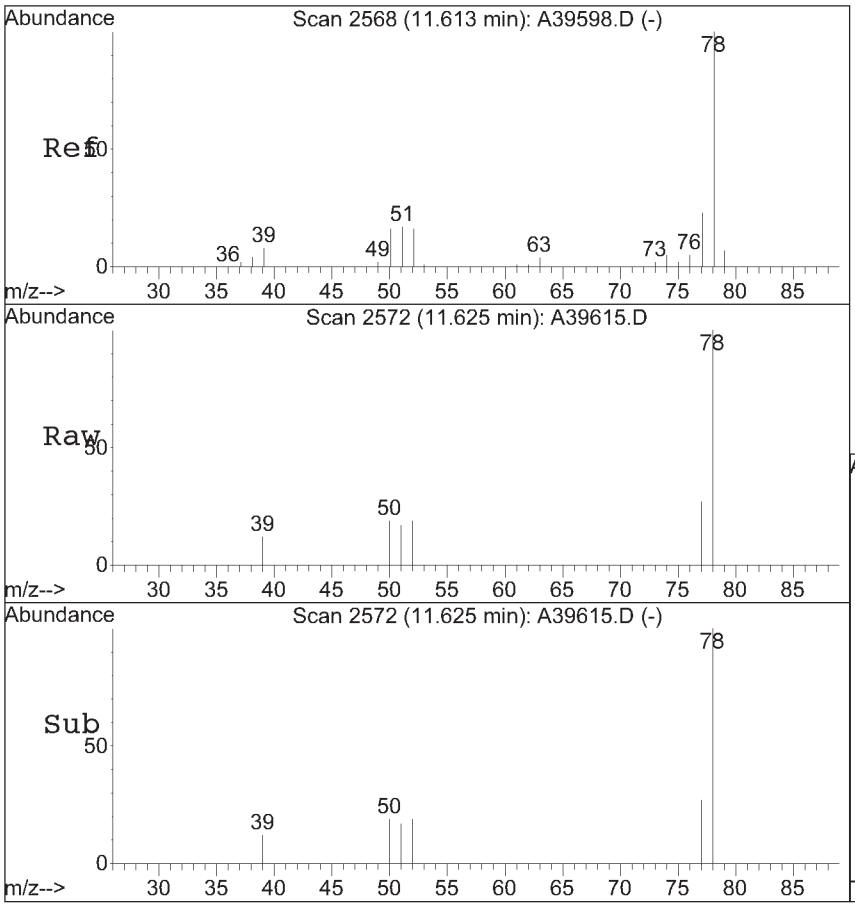


#25
ETHYL ACETATE
Concen: 1.04 PPBv m
RT: 9.86 min Scan# 1912
Delta R.T. 0.00 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion: 61 Resp: 7940

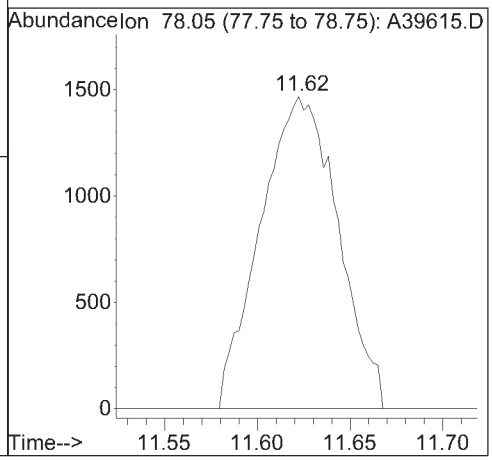
Ion	Ratio	Lower	Upper
61	100		
45	0.0	84.2	126.4#

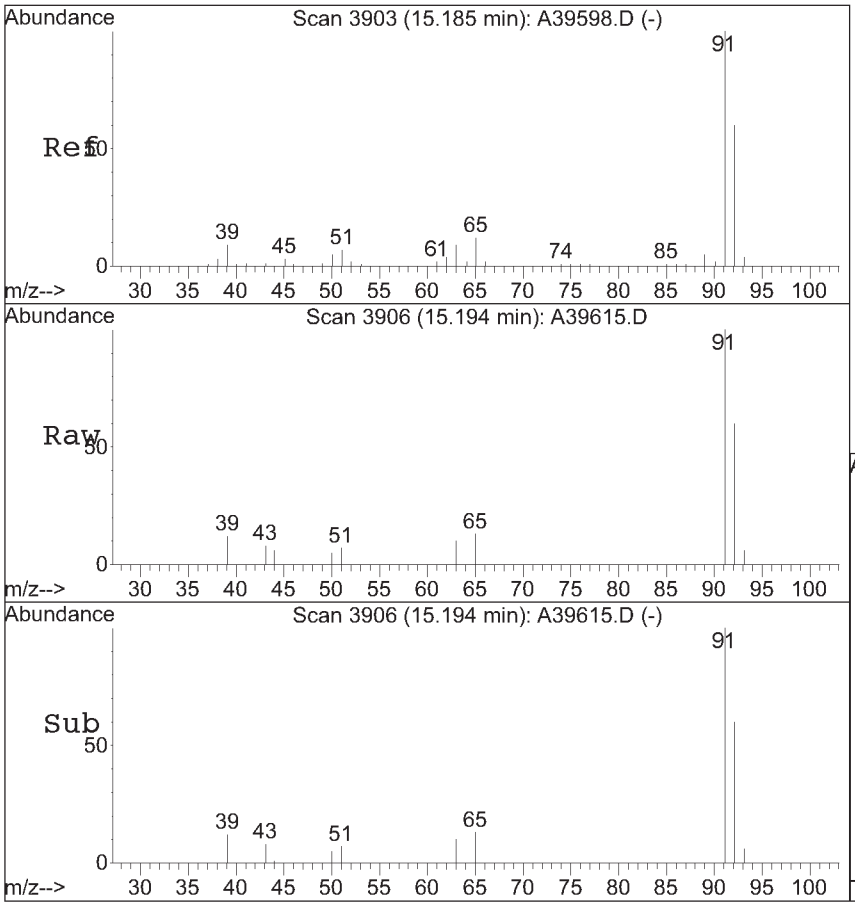




#30
BENZENE
Concen: 0.33 PPBv
RT: 11.62 min Scan# 2572
Delta R.T. -0.01 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion: 78 Resp: 42648

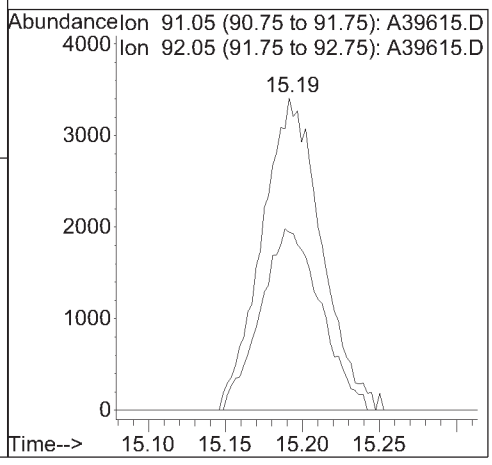


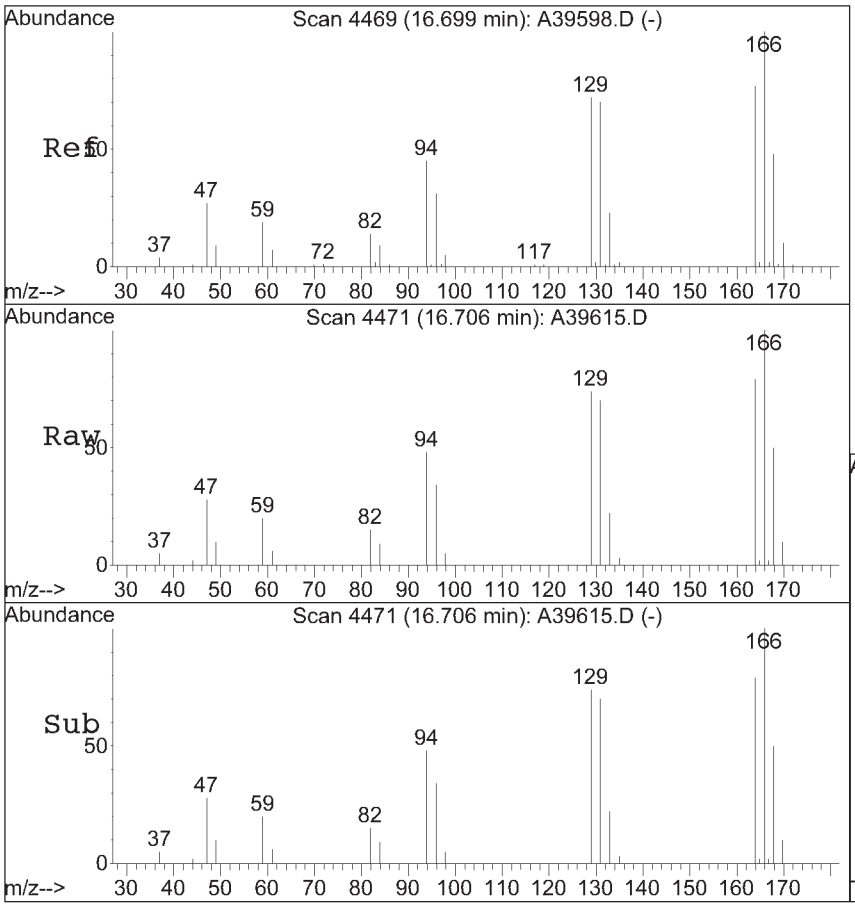


#43
TOLUENE
Concen: 0.62 PPBv
RT: 15.19 min Scan# 3906
Delta R.T. -0.02 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion: 91 Resp: 92270

Ion	Ratio	Lower	Upper
91	100		
92	58.6	48.1	72.1

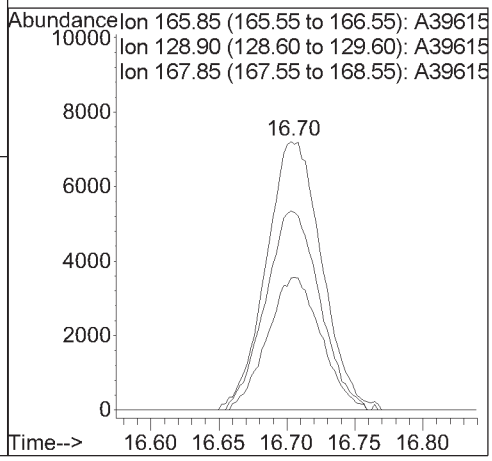


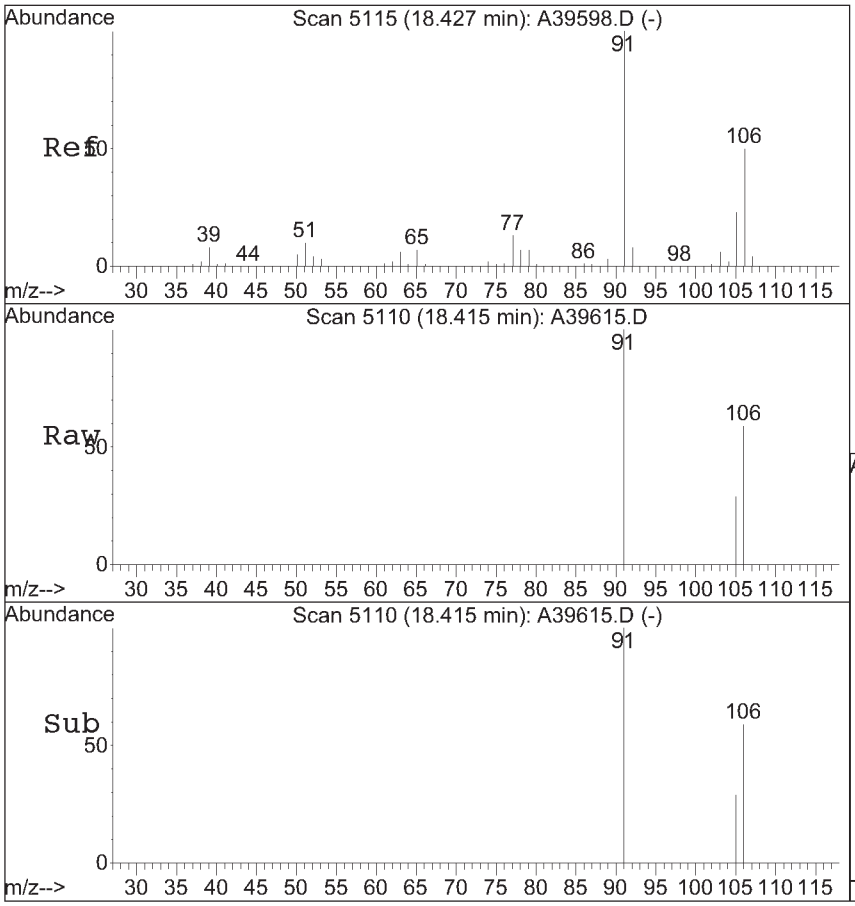


#47
TETRACHLOROETHENE
Concen: 2.86 PPBv
RT: 16.71 min Scan# 4471
Delta R.T. -0.02 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion:166 Resp: 205885

Ion	Ratio	Lower	Upper
166	100		
129	72.7	56.6	84.8
168	47.7	38.0	57.0

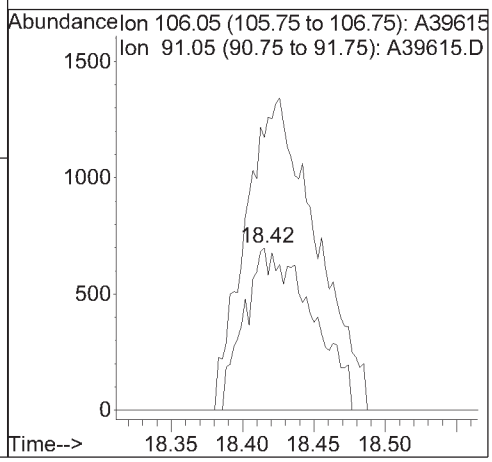




#52
M/P-XYLENE
Concen: 0.34 PPBv m
RT: 18.42 min Scan# 5110
Delta R.T. -0.04 min
Lab File: A39615.D
Acq: 8 Mar 2011 10:22 pm

Tgt Ion:106 Resp: 22868

Ion	Ratio	Lower	Upper
106	100		
91	0.0	155.7	233.5#



GC/MS Volatile Organics
Method TO-15

Standards Data

FORM VI - INITIAL CALIBRATION DATA

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1102028	Instrument:	Air2
Matrix:	Air	Calibration Date:	02/15/11 08:22
File ID:	t2021511h		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Propene	0.5	1.177838	2	0.6854274	5	0.6087136	10	0.5910543	20	0.5975471	25	0.7684469
Dichlorodifluoromethane (Freon12	0.5	4.658952	2	3.097608	5	2.757197	10	2.60367	20	2.529651	25	3.388418
Chloromethane	0.5	2.141401	2	1.42336	5	1.270011	10	1.192772	20	1.222022	25	1.516599
1,2-Dichlorotetrafluoroethane (Fre	0.5	5.358484	2	3.578258	5	3.170409	10	2.960943	20	2.962539	25	3.80476
Vinyl chloride	0.5	1.780626	2	1.182848	5	1.069357	10	1.004028	20	0.9958462	25	1.295419
1,3-Butadiene	0.5	1.17544	2	0.8311035	5	0.7511771	10	0.7180822	20	0.7390873	25	0.9603606
Bromomethane	0.5	1.632282	2	1.076407	5	0.9431931	10	0.8835353	20	0.8729345	25	1.130752
Chloroethane	0.5	0.7854509	2	0.5193872	5	0.4562701	10	0.4189458	20	0.4181511	25	0.5628278
Acetone	0.5	0.5155771	2	0.37424	5	0.3325206	10	0.3035532	20	0.3085605	25	0.4068749
Trichlorofluoromethane (Freon 11)	0.5	5.285726	2	3.413914	5	2.972588	10	2.713005	20	2.674308	25	3.50626
Ethanol	0.5	0.4296578	2	0.2953814	5	0.2609654	10	0.245834	20	0.2420689	25	0.271288
1,1-Dichloroethene	0.5	1.279625	2	0.8393332	5	0.768052	10	0.7201034	20	0.7349734	25	0.9424874
Acrylonitrile	0.5	0.5500186	2	0.4123237	5	0.4159308	10	0.365432	20	0.3908101	25	0.4770306
Methylene chloride	0.5	1.084662	2	0.7314918	5	0.6348856	10	0.589582	20	0.6042946	25	0.7771646
1,1,2-Trichlorotrifluoroethane (Fre	0.5	3.10644	2	2.071201	5	1.822139	10	1.698985	20	1.701625	25	2.178827
Carbon disulfide	0.5	3.307922	2	2.296903	5	2.013562	10	1.927818	20	1.985736	25	2.565715
trans-1,2-Dichloroethene	0.5	1.365114	2	0.9843092	5	0.9454215	10	0.9242904	20	0.972438	25	1.271233
1,1-Dichloroethane	0.5	3.031406	2	2.087147	5	1.896193	10	1.793563	20	1.83767	25	2.409114
Methyl tert-butyl ether	0.5	2.644062	2	2.187381	5	2.212383	10	2.224164	20	2.42161	25	3.203778
Isopropyl alcohol	0.5	1.850739	2	1.202963	5	1.038938	10	0.9859061	20	1.029111	25	1.269488
2-Butanone (MEK)	0.5	0.432979	2	0.4254538	5	0.4499203	10	0.4597038	20	0.5026323	25	0.6529115
cis-1,2-Dichloroethene	0.5	1.272245	2	0.987545	5	0.958217	10	0.9686418	20	1.039842	25	1.368658
Hexane	0.5	2.047732	2	1.587004	5	1.569357	10	1.591529	20	1.720191	25	2.285156
Ethyl acetate	0.5	0.2695663	2	0.3041556	5	0.3230498	10	0.3373557	20	0.3535489	25	0.4723748
Chloroform	0.5	3.543416	2	2.463768	5	2.197773	10	2.087682	20	2.147916	25	2.834039
Tetrahydrofuran	0.5	0.2688283	2	0.312183	5	0.3612625	10	0.3844773	20	0.4270803	25	0.5540344
1,2-Dichloroethane	0.5	2.000006	2	1.459763	5	1.345927	10	1.282147	20	1.325394	25	1.733658
1,1,1-Trichloroethane	0.5	3.189776	2	2.227534	5	2.035008	10	1.988499	20	2.091297	25	2.792821
Benzene	0.5	4.183106	2	3.142039	5	3.034648	10	3.008882	20	3.199586	25	4.205974
Carbon tetrachloride	0.5	2.869839	2	2.038158	5	1.914158	10	1.878298	20	1.992488	25	2.707534
Cyclohexane	0.5	1.955048	2	1.58047	5	1.592264	10	1.623322	20	1.743384	25	2.319357
1,2-Dichloropropane	0.5	0.380717	2	0.2637287	5	0.2544131	10	0.2458998	20	0.2611237	25	0.3433215

FORM VI - INITIAL CALIBRATION DATA

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1102028	Instrument:	Air2
Matrix:	Air	Calibration Date:	02/15/11 08:22
File ID:	t2021511h		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromodichloromethane	0.5	0.7158458	2	0.4928181	5	0.4695787	10	0.454686	20	0.4815497	25	0.6410343
Trichloroethene	0.5	0.3994036	2	0.2805263	5	0.2775203	10	0.2775657	20	0.3008363	25	0.400561
1,4-Dioxane	0.5	8.390718E-02	2	9.563886E-02	5	0.1046546	10	0.1044639	20	0.1263175	25	0.1565731
n-Heptane	0.5	0.2593151	2	0.2085303	5	0.2181143	10	0.2192301	20	0.2366073	25	0.3133728
4-Methyl-2-pentanone (MIBK)	0.5	0.5816484	2	0.47257	5	0.4985321	10	0.507851	20	0.5613091	25	0.7709434
cis-1,3-Dichloropropene	0.5	0.3535046	2	0.2982994	5	0.3257891	10	0.3327968	20	0.3754745	25	0.5010675
trans-1,3-Dichloropropene	0.5	0.265071	2	0.237565	5	0.2652062	10	0.2758381	20	0.3261612	25	0.4330508
1,1,2-Trichloroethane	0.5	0.3511806	2	0.2524245	5	0.2437531	10	0.2310582	20	0.2440076	25	0.321443
Toluene	0.5	0.8375991	2	0.7034468	5	0.734126	10	0.7551606	20	0.8280882	25	1.087667
2-Hexanone (MBK)	0.5	0.1219289	2	0.160904	5	0.1989945	10	0.2203761	20	0.2579449	25	0.3374781
Dibromochloromethane	0.5	0.6010781	2	0.4488682	5	0.4419301	10	0.4331456	20	0.4744072	25	0.6282371
1,2-Dibromoethane (EDB)	0.5	0.5253049	2	0.4000405	5	0.3835731	10	0.3820004	20	0.4194833	25	0.5434877
Tetrachloroethene	0.5	0.4963225	2	0.3597866	5	0.3523196	10	0.3475162	20	0.3788971	25	0.4924204
Chlorobenzene	0.5	1.946339	2	1.382869	5	1.257245	10	1.200561	20	1.205604	25	1.62296
Ethylbenzene	0.5	2.145804	2	1.78915	5	1.891783	10	1.911762	20	1.970274	25	2.666423
1,1,1,2-Tetrachloroethane	0.5	1.059673	2	0.753941	5	0.7145215	10	0.6685162	20	0.6732686	25	0.8693402
m,p-Xylene	1	0.9156782	4	0.7707931	10	0.7798369	20	0.7686466	40	0.7836953	50	1.047936
Bromoform	0.5	1.028696	2	0.7950902	5	0.7671857	10	0.7688996	20	0.8132687	25	1.075934
Styrene	0.5	0.8428953	2	0.8401846	5	0.9829417	10	1.011496	20	1.072902	25	1.423327
o-Xylene	0.5	0.8930914	2	0.7442555	5	0.7928999	10	0.7588355	20	0.781959	25	1.04017
1,1,2,2-Tetrachloroethane	0.5	1.861435	2	1.343104	5	1.271058	10	1.191257	20	1.186261	25	1.526981
1,3,5-Trimethylbenzene	0.5	1.927905	2	1.697465	5	1.734706	10	1.762442	20	1.871147	25	2.272697
4-Ethyltoluene	0.5	2.026417	2	1.829965	5	2.143802	10	2.149595	20	2.243564	25	2.81943
1,2,4-Trimethylbenzene	0.5	1.662895	2	1.423733	5	1.686616	10	1.710949	20	1.775757	25	2.263771
Isopropylbenzene	0.5	2.804666	2	2.100865	5	2.271594	10	2.166691	20	2.218247	25	2.822879
1,3-Dichlorobenzene	0.5	1.63046	2	1.289201	5	1.318642	10	1.269267	20	1.248348	25	1.551063
Benzyl chloride	0.5	1.117024	2	1.018509	5	1.162453	10	1.199021	20	1.31678	25	1.778538
1,4-Dichlorobenzene	0.5	1.496342	2	1.206123	5	1.273929	10	1.252579	20	1.275167	25	1.557198
Naphthalene	0.5	0.7622281	2	0.8711404	5	1.226736	10	1.387336	20	1.569158	25	1.687191
1,2-Dichlorobenzene	0.5	1.42513	2	1.10149	5	1.16545	10	1.164875	20	1.178778	25	1.457554
1,2,4-Trichlorobenzene	0.5	0.4279431	2	0.4113392	5	0.5239939	10	0.5745413	20	0.647706	25	0.8984349
Hexachlorobutadiene	0.5	0.882289	2	0.5696949	5	0.592103	10	0.5924494	20	0.6298697	25	0.8561622

FORM VI - INITIAL CALIBRATION DATA

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1102028	Instrument:	Air2
Matrix:	Air	Calibration Date:	02/15/11 08:22
File ID:	t2021511h		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
sec-Butylbenzene	0.5	3.166027	2	2.558544	5	2.84206	10	2.816506	20	2.843973	25	3.502514
4-Isopropyltoluene	0.5	2.175069	2	1.879818	5	2.199778	10	2.238236	20	2.309648	25	2.823786
n-Butylbenzene	0.5	1.896339	2	1.657923	5	2.012825	10	2.053141	20	2.169695	25	2.60163
4-Bromofluorobenzene	10	1.124465	10	1.074287	10	1.158568	10	1.123006	10	1.076158	10	1.151585

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1102028	Instrument:	Air2
Matrix:	Air	Calibration Date:	02/15/11 08:22
File ID:	t2021511h		

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Propene	50	0.7712017	100	0.7066427								
Dichlorodifluoromethane (Freon12	50	3.416229	100	3.079724								
Chloromethane	50	1.472667	100	1.325932								
1,2-Dichlorotetrafluoroethane (Fre	50	3.548601	100	2.961521								
Vinyl chloride	50	1.232753	100	1.091886								
1,3-Butadiene	50	0.9076464	100	0.7957628								
Bromomethane	50	1.076415	100	0.9507315								
Chloroethane	50	0.5331597	100	0.4687422								
Acetone	50	0.3844452	100	0.3433747								
Trichlorofluoromethane (Freon 11)	50	3.172521	100	2.646921								
Ethanol	50	0.2601196	100	0.2371889								
1,1-Dichloroethene	50	0.8825276	100	0.7832214								
Acrylonitrile	50	0.4606238	100	0.4259765								
Methylene chloride	50	0.7186288	100	0.6339238								
1,1,2-Trichlorotrifluoroethane (Fre	50	1.99003	100	1.677055								
Carbon disulfide	50	2.461224	100	2.153602								
trans-1,2-Dichloroethene	50	1.288353	100	1.237922								
1,1-Dichloroethane	50	2.391903	100	2.262678								
Methyl tert-butyl ether	50	3.34309	100	3.266186								
Isopropyl alcohol	50	1.246644	100	1.119712								
2-Butanone (MEK)	50	0.6641108	100	0.6290512								
cis-1,2-Dichloroethene	50	1.383105	100	1.321705								
Hexane	50	2.255817	100	2.027038								
Ethyl acetate	50	0.4781092	100	0.4425132								
Chloroform	50	2.796901	100	2.643196								
Tetrahydrofuran	50	0.5651291	100	0.5441942								
1,2-Dichloroethane	50	1.739718	100	1.687216								
1,1,1-Trichloroethane	50	2.843837	100	2.795651								
Benzene	50	4.162192	100	3.894889								
Carbon tetrachloride	50	2.772045	100	2.702652								
Cyclohexane	50	2.268122	100	2.145536								
1,2-Dichloropropane	50	0.3411266	100	0.3143259								

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1102028	Instrument:	Air2
Matrix:	Air	Calibration Date:	02/15/11 08:22
File ID:	t2021511h		

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromodichloromethane	50	0.6519471	100	0.6191177								
Trichloroethene	50	0.4017588	100	0.3625367								
1,4-Dioxane	50	0.1601305	100	0.1528784								
n-Heptane	50	0.3087281	100	0.2734881								
4-Methyl-2-pentanone (MIBK)	50	0.7617569	100	0.6904487								
cis-1,3-Dichloropropene	50	0.5144444	100	0.4896594								
trans-1,3-Dichloropropene	50	0.4529558	100	0.4469142								
1,1,2-Trichloroethane	50	0.3188065	100	0.2962254								
Toluene	50	1.082974	100	1.004261								
2-Hexanone (MBK)	50	0.3481858	100	0.3353902								
Dibromochloromethane	50	0.6390586	100	0.5995702								
1,2-Dibromoethane (EDB)	50	0.5495285	100	0.5193908								
Tetrachloroethene	50	0.4973828	100	0.4518006								
Chlorobenzene	50	1.392557	100	1.067989								
Ethylbenzene	50	2.339237	100	1.905088								
1,1,1,2-Tetrachloroethane	50	0.7606891	100	0.6092567								
m,p-Xylene	100	0.9040982	200	0.6902282								
Bromoform	50	0.9781382	100	0.8175815								
Styrene	50	1.265448	100	1.054341								
o-Xylene	50	0.8746174	100	0.6381525								
1,1,2,2-Tetrachloroethane	50	1.242561	100	0.8550612								
1,3,5-Trimethylbenzene	50	2.045771	100	1.672612								
4-Ethyltoluene	50	2.553676	100	2.060847								
1,2,4-Trimethylbenzene	50	2.014494	100	1.651008								
Isopropylbenzene	50	2.462214	100	1.954705								
1,3-Dichlorobenzene	50	1.328398	100	1.013222								
Benzyl chloride	50	1.604072	100	1.212623								
1,4-Dichlorobenzene	50	1.373138	100	1.107798								
Naphthalene	50	1.596319	100	1.419039								
1,2-Dichlorobenzene	50	1.26444	100	1.030112								
1,2,4-Trichlorobenzene	50	0.8434182	100	0.7350751								
Hexachlorobutadiene	50	0.7426911	100	0.5763478								

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1102028	Instrument:	Air2
Matrix:	Air	Calibration Date:	02/15/11 08:22
File ID:	t2021511h		

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
sec-Butylbenzene	50	2.986307	100	2.296172								
4-Isopropyltoluene	50	2.431565	100	1.890455								
n-Butylbenzene	50	2.243472	100	1.770188								
4-Bromofluorobenzene	10	1.029319	10	0.9298684								

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1102028	Instrument:	Air2
Matrix:	Air	Calibration Date:	02/15/11 08:22
File ID:	t2021511h		

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Propene	0.738359	25.96428	4.41625	0.1163418			30	
Dichlorodifluoromethane (Freon12)	3.191431	21.30512	4.4875	0.1014888			30	
Chloromethane	1.445596	21.0709	4.6525	0.1007741			30	
1,2-Dichlorotetrafluoroethane (Freon 114)	3.543189	22.67519	4.745	0.1127999			30	
Vinyl chloride	1.206595	21.1551	4.87	0.1086245			30	
1,3-Butadiene	0.8598325	17.76949	5.005	0.1059182			30	
Bromomethane	1.070781	22.98001	5.28	0.1021273			30	
Chloroethane	0.5203668	22.93965	5.44875	6.396433E-02			30	
Acetone	0.3711433	18.52	6.05875	0.4444389			30	
Trichlorofluoromethane (Freon 11)	3.298155	26.3443	6.20875	6.099448E-02			30	
Ethanol	0.280313	22.5244	5.575	0.3585967			30	
1,1-Dichloroethene	0.8687904	20.98883	6.8525	6.446939E-02			30	
Acrylonitrile	0.4372683	13.21196	6.5125	0.2428026			30	
Methylene chloride	0.7218292	22.30177	6.975	7.868312E-02			30	
1,1,2-Trichlorotrifluoroethane (Freon 113)	2.030788	23.31552	7.24	7.171209E-02			30	
Carbon disulfide	2.33906	19.39778	7.30125	8.671277E-02			30	
trans-1,2-Dichloroethene	1.123635	16.27385	7.96	6.528356E-02			30	
1,1-Dichloroethane	2.213709	18.51327	8.1775	5.879587E-02			30	
Methyl tert-butyl ether	2.687832	18.83653	8.2675	0.3082304			30	
Isopropyl alcohol	1.217938	22.70571	6.30625	0.5424558			30	
2-Butanone (MEK)	0.5270953	19.67478	8.6425	0.3797675			30	
cis-1,2-Dichloroethene	1.162495	16.37081	9.09375	5.791933E-02			30	
Hexane	1.885478	16.11192	9.315	5.931423E-02			30	
Ethyl acetate	0.3725842	21.59971	9.3625	0.2340104			30	
Chloroform	2.589336	18.64604	9.42375	5.625925E-02			30	
Tetrahydrofuran	0.4271486	27.0254	9.93125	0.3379983			30	
1,2-Dichloroethane	1.571729	16.29684	10.2675	4.266752E-02			30	
1,1,1-Trichloroethane	2.495553	18.46348	10.5575	4.596009E-02			30	
Benzene	3.603914	15.37506	11.0975	4.090673E-02			30	
Carbon tetrachloride	2.359396	18.52571	11.27	1.115312E-02			30	
Cyclohexane	1.903438	16.28362	11.415	4.389168E-02			30	
1,2-Dichloropropane	0.300582	16.92551	12.075	4.035873E-02			30	
Bromodichloromethane	0.5658222	17.98218	12.31125	0.0363224			30	

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1102028	Instrument:	Air2
Matrix:	Air	Calibration Date:	02/15/11 08:22
File ID:	t2021511h		

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Trichloroethene	0.3375886	17.46887	12.3625	3.659389E-02			30	
1,4-Dioxane	0.1230705	24.50465	12.43	0.5198017			30	
n-Heptane	0.2546733	16.11576	12.71375	3.694264E-02			30	
4-Methyl-2-pentanone (MIBK)	0.6056325	19.75232	13.51	0.1936348			30	
cis-1,3-Dichloropropene	0.3988795	22.11521	13.43375	4.193242E-02			30	
trans-1,3-Dichloropropene	0.3378453	27.13301	14.105	5.333186E-02			30	
1,1,2-Trichloroethane	0.2823624	15.99239	14.3275	2.892895E-02			30	
Toluene	0.8791653	17.8446	14.69125	1.755278E-02			30	
2-Hexanone (MBK)	0.2476503	34.94395	15.0725	0.1934933			30	*
Dibromochloromethane	0.5332869	17.09237	15.2525	2.879345E-02			30	
1,2-Dibromoethane (EDB)	0.4653512	16.18532	15.5825	3.457547E-02			30	
Tetrachloroethene	0.4220557	16.3137	16.205	3.506602E-02			30	
Chlorobenzene	1.384515	20.33402	17.1525	3.397458E-02			30	
Ethylbenzene	2.07744	14.16699	17.6875	0.0278807			30	
1,1,1,2-Tetrachloroethane	0.7636508	18.67541	17.12625	2.259343E-02			30	
m,p-Xylene	0.8326141	13.74942	17.9525	4.585773E-02			30	
Bromoform	0.8805992	14.28435	18.0575	3.620554E-02			30	
Styrene	1.061692	18.775	18.4825	2.213683E-02			30	
o-Xylene	0.8154976	14.75622	18.6425	2.744533E-02			30	
1,1,2,2-Tetrachloroethane	1.309715	22.25481	18.6325	2.837985E-02			30	
1,3,5-Trimethylbenzene	1.873093	10.95872	20.7525	2.086126E-02			30	
4-Ethyltoluene	2.228412	14.15357	20.615	3.780064E-02			30	
1,2,4-Trimethylbenzene	1.773653	14.44502	21.4625	1.998046E-02			30	
Isopropylbenzene	2.350233	13.6305	19.5425	2.972722E-02			30	
1,3-Dichlorobenzene	1.331075	14.24409	21.7125	2.261535E-02			30	
Benzyl chloride	1.301127	19.94036	21.6925	1.982383E-02			30	
1,4-Dichlorobenzene	1.317784	11.35813	21.8325	1.577484E-02			30	
Naphthalene	1.314893	25.84927	25.19125	1.707147E-02			30	
1,2-Dichlorobenzene	1.223479	12.28749	22.40125	1.392091E-02			30	
1,2,4-Trichlorobenzene	0.6328065	28.75955	25.02875	9.56031E-03			30	
Hexachlorobutadiene	0.6802009	18.98222	25.76	2.071968E-02			30	
sec-Butylbenzene	2.876513	12.68165	21.9225	1.650499E-02			30	
4-Isopropyltoluene	2.243544	13.47744	22.1975	1.675423E-02			30	

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1102028	Instrument:	Air2
Matrix:	Air	Calibration Date:	02/15/11 08:22
File ID:	t2021511h		

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
n-Butylbenzene	2.050652	14.43162	22.8825	2.953418E-02			30	
4-Bromofluorobenzene	1.083407	6.993582	19.3325	2.438041E-02			30	

Individual peaks for multi-component analytes are indicated by a number in parentheses

Response Factor Report AIR2

Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration

Calibration Files
1 =B36424.D 2 =B36425.D 3 =B36426.D
4 =B36427.D 5 =B36428.D 6 =B36430.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	BROMOCHLOROMETHANE	----------ISTD----------							
2)		PROPENE	1.178	0.685	0.609	0.591	0.598	0.768	0.738	25.96
3)		DICHLORODIFLUOROMET	4.659	3.098	2.757	2.604	2.530	3.388	3.191	21.31
4)		CHLOROMETHANE	2.141	1.423	1.270	1.193	1.222	1.517	1.446	21.07
5)		FREON 114	5.358	3.578	3.170	2.961	2.963	3.805	3.543	22.68
6)		VINYL CHLORIDE	1.781	1.183	1.069	1.004	0.996	1.295	1.207	21.15
7)		1,3-BUTADIENE	1.175	0.831	0.751	0.718	0.739	0.960	0.860	17.77
8)		BROMOMETHANE	1.632	1.076	0.943	0.884	0.873	1.131	1.071	22.98
9)		CHLOROETHANE	0.785	0.519	0.456	0.419	0.418	0.563	0.520	22.94
10)		ACETONE	0.516	0.374	0.333	0.304	0.309	0.407	0.371	18.52
11)		TRICHLOROFLUOROMETH	5.286	3.414	2.973	2.713	2.674	3.506	3.298	26.34
12)		ETHANOL	0.430	0.295	0.261	0.246	0.242	0.271	0.280	22.53
13)		ACRYLONITRILE	0.550	0.412	0.416	0.365	0.391	0.477	0.437	13.21
14)		1,1-DICHLOROETHENE	1.280	0.839	0.768	0.720	0.735	0.942	0.869	20.99
15)		METHYLENE CHLORIDE	1.085	0.731	0.635	0.590	0.604	0.777	0.722	22.30
16)		FREON 113	3.106	2.071	1.822	1.699	1.702	2.179	2.031	23.32
17)		CARBON DISULFIDE	3.308	2.297	2.014	1.928	1.986	2.566	2.339	19.40
18)		TRANS-1,2-DICHLOROE	1.365	0.984	0.945	0.924	0.972	1.271	1.124	16.27
19)		1,1-DICHLOROETHANE	3.031	2.087	1.896	1.794	1.838	2.409	2.214	18.51
20)		MTBE	2.644	2.187	2.212	2.224	2.422	3.204	2.688	18.84
21)		IPA	1.851	1.203	1.039	0.986	1.029	1.269	1.218	22.71
22)		2-BUTANONE(MEK)	0.433	0.425	0.450	0.460	0.503	0.653	0.527	19.67
23)		CIS-1,2-DICHLOROETH	1.272	0.988	0.958	0.969	1.040	1.369	1.162	16.37
24)		HEXANE	2.048	1.587	1.569	1.592	1.720	2.285	1.885	16.11
25)		ETHYL ACETATE	0.270	0.304	0.323	0.337	0.354	0.472	0.373	21.60
26)		CHLOROFORM	3.543	2.464	2.198	2.088	2.148	2.834	2.589	18.65
27)		TETRAHYDROFURAN	0.269	0.312	0.361	0.384	0.427	0.554	0.427	27.03
28)		1,2-DICHLOROETHANE	2.000	1.460	1.346	1.282	1.325	1.734	1.572	16.30
29)		1,1,1-TRICHLOROETHA	3.190	2.228	2.035	1.989	2.091	2.793	2.496	18.46
30)		BENZENE	4.183	3.142	3.035	3.009	3.200	4.206	3.604	15.38
31)		CARBON TETRACHLORID	2.870	2.038	1.914	1.878	1.992	2.708	2.359	18.53
32)		CYCLOHEXANE	1.955	1.580	1.592	1.623	1.743	2.319	1.903	16.28
33)	I	1,4-DIFLUOROBENZENE	----------ISTD----------							
34)		1,2-DICHLOROPROPANE	0.381	0.264	0.254	0.246	0.261	0.343	0.301	16.93
35)		BROMODICHLOROMETHAN	0.716	0.493	0.470	0.455	0.482	0.641	0.566	17.98
36)		TRICHLOROETHENE	0.399	0.281	0.278	0.278	0.301	0.401	0.338	17.47
37)		1,4-DIOXANE	0.084	0.096	0.105	0.104	0.126	0.157	0.123	24.50
38)		HEPTANE	0.259	0.209	0.218	0.219	0.237	0.313	0.255	16.12
39)		MIBK	0.582	0.473	0.499	0.508	0.561	0.771	0.606	19.75
40)		CIS-1,3DICHLOROPROP	0.354	0.298	0.326	0.333	0.375	0.501	0.399	22.12
41)		TRANS-1,3-DICHLOROP	0.265	0.238	0.265	0.276	0.326	0.433	0.338	27.13
42)		1,1,2-TRICHLOROETHA	0.351	0.252	0.244	0.231	0.244	0.321	0.282	15.99

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration

Calibration Files
1 =B36424.D 2 =B36425.D 3 =B36426.D
4 =B36427.D 5 =B36428.D 6 =B36430.D

		Compound	1	2	3	4	5	6	Avg	%RSD
43)		TOLUENE	0.838	0.703	0.734	0.755	0.828	1.088	0.879	17.84
44)		2-HEXANONE(MBK)	0.122	0.161	0.199	0.220	0.258	0.337	0.248	34.94
45)		DIBROMOCHLOROMETHAN	0.601	0.449	0.442	0.433	0.474	0.628	0.533	17.09
46)		1,2-DIBROMOETHANE	0.525	0.400	0.384	0.382	0.419	0.543	0.465	16.19
47)		TETRACHLOROETHENE	0.496	0.360	0.352	0.348	0.379	0.492	0.422	16.31
48)	I	CHLOROBENZENE-D5	ISTD							
49)		CHLOROBENZENE	1.946	1.383	1.257	1.201	1.206	1.623	1.385	20.33
50)		1,1,1,2-TETRACHLORO	1.060	0.754	0.715	0.669	0.673	0.869	0.764	18.68
51)		ETHYLBENZENE	2.146	1.789	1.892	1.912	1.970	2.666	2.077	14.17
52)		M/P-XYLENE	0.916	0.771	0.780	0.769	0.784	1.048	0.833	13.75
53)		BROMOFORM	1.029	0.795	0.767	0.769	0.813	1.076	0.881	14.28
54)		STYRENE	0.843	0.840	0.983	1.011	1.073	1.423	1.062	18.77
55)		O-XYLENE	0.893	0.744	0.793	0.759	0.782	1.040	0.815	14.76
56)		1,1,2,2-TETRACHLORO	1.861	1.343	1.271	1.191	1.186	1.527	1.310	22.26
57)	SS	4-BROMOFLUOROBENZEN	1.124	1.074	1.159	1.123	1.076	1.152	1.083	6.99
58)		ISOPROPYLBENZENE	2.805	2.101	2.272	2.167	2.218	2.823	2.350	13.63
59)		4-ETHYLTOLUENE	2.026	1.830	2.144	2.150	2.244	2.819	2.228	14.15
60)		1,3,5-TRIMETHYLBENZ	1.928	1.697	1.735	1.762	1.871	2.273	1.873	10.96
61)		1,2,4-TRIMETHYLBENZ	1.663	1.424	1.687	1.711	1.776	2.264	1.774	14.45
62)		1,3-DICHLOROBENZENE	1.630	1.289	1.319	1.269	1.248	1.551	1.331	14.24
63)		BENZYL CHLORIDE	1.117	1.019	1.162	1.199	1.317	1.779	1.301	19.94
64)		1,4-DICHLOROBENZENE	1.496	1.206	1.274	1.253	1.275	1.557	1.318	11.36
65)		SEC-BUTYLBENZENE	3.166	2.559	2.842	2.817	2.844	3.503	2.877	12.68
66)		4-ISOPROPYLTOLUENE	2.175	1.880	2.200	2.238	2.310	2.824	2.244	13.48
67)		1,2-DICHLOROBENZENE	1.425	1.101	1.165	1.165	1.179	1.458	1.223	12.29
68)		N-BUTYLBENZENE	1.896	1.658	2.013	2.053	2.170	2.602	2.051	14.43
69)		1,2,4-TRICHLOROBENZ	0.428	0.411	0.524	0.575	0.648	0.898	0.633	28.76
70)		NAPHTHALENE	0.762	0.871	1.227	1.387	1.569	1.687	1.315	25.85
71)		HEXACHLOROBUTADIENE	0.882	0.570	0.592	0.592	0.630	0.856	0.680	18.98

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36424.D Vial: 2
Acq On : 15 Feb 2011 2:35 pm Operator: KG
Sample : 0.5ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 9:10 2011 Quant Results File: T2021511H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:04:09 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.29	128	325189	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	11.51	114	1480207	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.09	82	712805	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.34	95	801524	10.38	PPBv		0.00
Spiked Amount 10.000	Range 9 - 15		Recovery = 103.80%#				
Target Compounds							Qvalue
2) PROPENE	4.42	42	19151	0.80	PPBv		85
3) DICHLORODIFLUOROMETHANE	4.49	85	75752	0.73	PPBv		100
4) CHLOROMETHANE	4.66	50	34818	0.74	PPBv	#	100
5) FREON 114	4.75	85	87126	0.76	PPBv		95
6) VINYL CHLORIDE	4.88	62	28952	0.74	PPBv	#	43
7) 1,3-BUTADIENE	5.01	54	19112m	0.68	PPBv		
8) BROMOMETHANE	5.28	94	26540m	0.76	PPBv		
9) CHLOROETHANE	5.45	64	12771m	0.75	PPBv		
10) ACETONE	6.11	58	8383m	0.69	PPBv		
11) TRICHLOROFLUOROMETHANE	6.21	101	85943	0.80	PPBv		100
12) ETHANOL	5.61	45	6986m	0.77	PPBv		
13) ACRYLONITRILE	6.54	53	8943m	0.63	PPBv		
14) 1,1-DICHLOROETHENE	6.86	96	20806	0.74	PPBv	#	100
15) METHYLENE CHLORIDE	6.98	84	17636m	0.75	PPBv		
16) FREON 113	7.25	101	50509	0.76	PPBv	#	100
17) CARBON DISULFIDE	7.31	76	53785	0.71	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	7.97	96	22196m	0.61	PPBv		
19) 1,1-DICHLOROETHANE	8.18	63	49289	0.68	PPBv	#	100
20) MTBE	8.32	73	42991	0.49	PPBv	#	100
21) IPA	6.37	45	30092	0.76	PPBv	#	100
22) 2-BUTANONE(MEK)	8.71	72	7040m	0.41	PPBv		
23) CIS-1,2-DICHLOROETHENE	9.10	96	20686m	0.55	PPBv		
24) HEXANE	9.32	57	33295	0.54	PPBv	#	100
25) ETHYL ACETATE	9.41	61	4383m	0.36	PPBv		
26) CHLOROFORM	9.43	83	57614	0.68	PPBv	#	100
27) TETRAHYDROFURAN	9.99	71	4371m	0.31	PPBv		
28) 1,2-DICHLOROETHANE	10.27	62	32519	0.64	PPBv	#	100
29) 1,1,1-TRICHLOROETHANE	10.56	97	51864	0.64	PPBv	#	100
30) BENZENE	11.10	78	68015	0.58	PPBv		100
31) CARBON TETRACHLORIDE	11.27	119	46662	0.61	PPBv	#	100
32) CYCLOHEXANE	11.42	56	31788m	0.51	PPBv		
34) 1,2-DICHLOROPROPANE	12.08	63	28177	0.64	PPBv	#	100
35) BROMODICHLOROMETHANE	12.31	83	52980	0.64	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36424.D Vial: 2
Acq On : 15 Feb 2011 2:35 pm Operator: KG
Sample : 0.5ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 9:10 2011 Quant Results File: T2021511H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:04:09 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

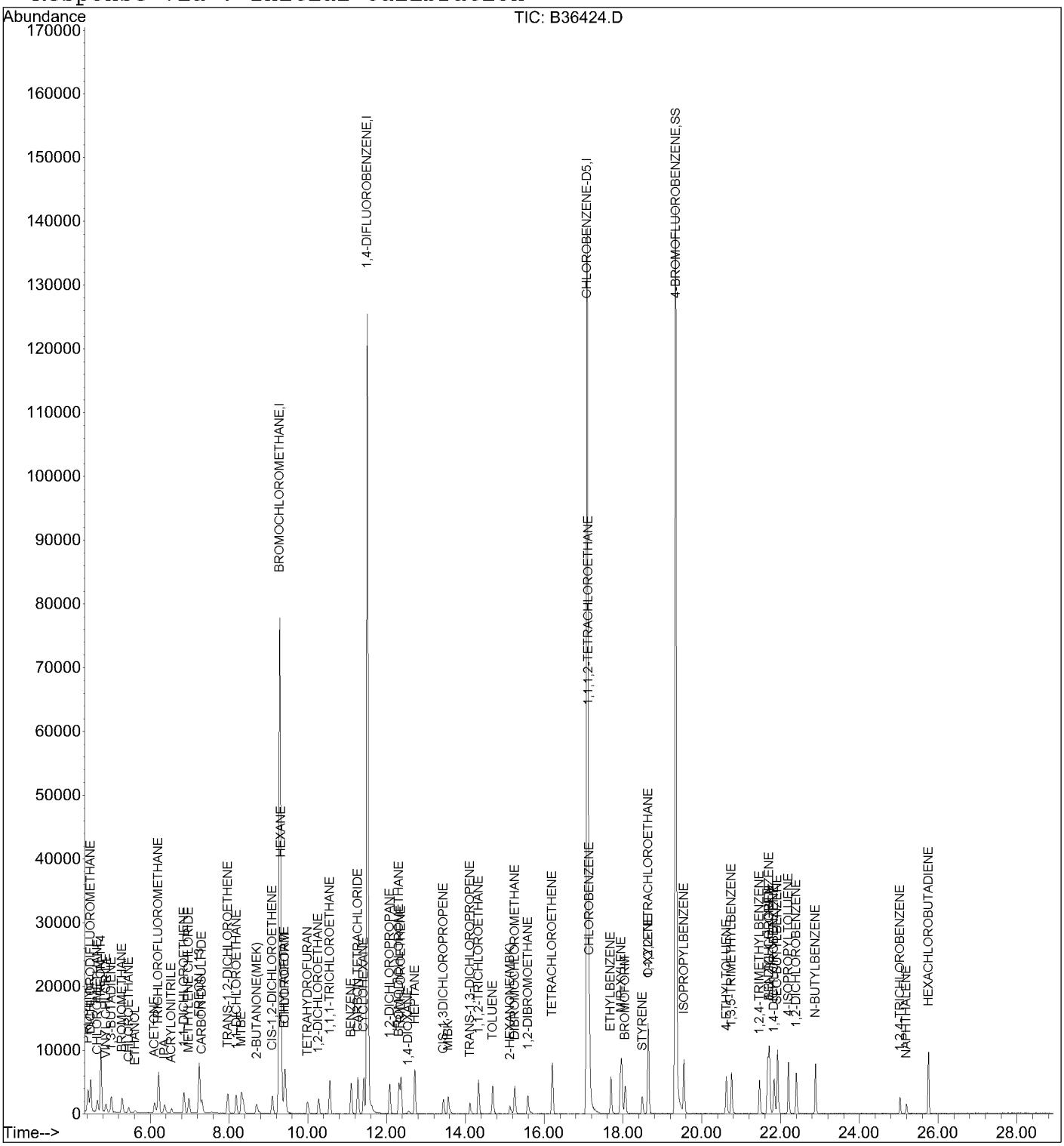
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	TRICHLOROETHENE	12.37	95	29560	0.60	PPBv	#	100
37)	1,4-DIOXANE	12.55	88	6210m	0.34	PPBv		
38)	HEPTANE	12.71	57	19192m	0.51	PPBv		
39)	MIBK	13.56	43	43048	0.48	PPBv	#	100
40)	CIS-1,3DICHLOROPROPENE	13.44	75	26163	0.45	PPBv	#	100
41)	TRANS-1,3-DICHLOROPROPENE	14.12	75	19618	0.39	PPBv	#	100
42)	1,1,2-TRICHLOROETHANE	14.33	83	25991m	0.63	PPBv		
43)	TOLUENE	14.70	91	61991	0.48	PPBv	#	100
44)	2-HEXANONE(MBK)	15.13	58	9024m	0.25	PPBv		
45)	DIBROMOCHLOROMETHANE	15.26	129	44486	0.57	PPBv	#	100
46)	1,2-DIBROMOETHANE	15.59	107	38878	0.57	PPBv	#	100
47)	TETRACHLOROETHENE	16.21	166	36733	0.59	PPBv	#	100
49)	CHLOROBENZENE	17.16	112	69368	0.70	PPBv	#	79
50)	1,1,1,2-TETRACHLOROETHANE	17.13	131	37767	0.69	PPBv	#	100
51)	ETHYLBENZENE	17.69	91	76477	0.52	PPBv	#	100
52)	M/P-XYLENE	17.96	106	65270	1.10	PPBv		84
53)	BROMOFORM	18.06	173	36663	0.58	PPBv	#	29
54)	STYRENE	18.49	104	30041	0.40	PPBv	#	100
55)	O-XYLENE	18.65	106	31830	0.55	PPBv		100
56)	1,1,2,2-TETRACHLOROETHANE	18.64	83	66342	0.71	PPBv	#	100
58)	ISOPROPYLBENZENE	19.55	105	99959	0.60	PPBv	#	100
59)	4-ETHYLTOLUENE	20.63	105	72222m	0.45	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	20.76	105	68711	0.51	PPBv	#	100
61)	1,2,4-TRIMETHYLBENZENE	21.47	105	59266	0.47	PPBv		98
62)	1,3-DICHLOROBENZENE	21.71	146	58110m	0.61	PPBv		
63)	BENZYL CHLORIDE	21.70	91	39811	0.43	PPBv	#	56
64)	1,4-DICHLOROBENZENE	21.84	146	53330	0.57	PPBv	#	39
65)	SEC-BUTYLBENZENE	21.93	105	112838	0.55	PPBv	#	62
66)	4-ISOPROPYLTOLUENE	22.20	119	77520	0.48	PPBv		98
67)	1,2-DICHLOROBENZENE	22.40	146	50792	0.58	PPBv		92
68)	N-BUTYLBENZENE	22.89	91	67586	0.46	PPBv	#	78
69)	1,2,4-TRICHLOROBENZENE	25.03	180	15252m	0.34	PPBv		
70)	NAPHTHALENE	25.20	128	27166	0.29	PPBv		100
71)	HEXACHLOROBUTADIENE	25.76	225	31445	0.65	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\FEB2011\AIR2\021511\B36424.D Vial: 2
Acq On : 15 Feb 2011 2:35 pm Operator: KG
Sample : 0.5ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 9:10 2011 Quant Results File: T2021511H.RE

Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36425.D Vial: 3
Acq On : 15 Feb 2011 3:16 pm Operator: KG
Sample : 2ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:23 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.29	128	321398	10.00	PPBv		0.02
33) 1,4-DIFLUOROBENZENE	11.51	114	1527308	10.00	PPBv		0.02
48) CHLOROBENZENE-D5	17.09	82	718604	10.00	PPBv		0.01
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.33	95	771987	9.82	PPBv		0.01
Spiked Amount 10.000	Range 9 - 15		Recovery = 98.20%#				
Target Compounds							Qvalue
2) PROPENE	4.42	42	44059	2.43	PPBv		90
3) DICHLORODIFLUOROMETHANE	4.49	85	199113	1.89	PPBv		100
4) CHLOROMETHANE	4.66	50	91493	1.98	PPBv	#	100
5) FREON 114	4.75	85	230009	2.24	PPBv		95
6) VINYL CHLORIDE	4.87	62	76033	2.05	PPBv		97
7) 1,3-BUTADIENE	5.01	54	53423	2.02	PPBv		98
8) BROMOMETHANE	5.29	94	69191	2.36	PPBv	#	93
9) CHLOROETHANE	5.45	64	33386	2.37	PPBv	#	42
10) ACETONE	6.09	58	24056	2.57	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.21	101	219445	3.26	PPBv		99
12) ETHANOL	5.60	45	18987	2.55	PPBv	#	44
13) ACRYLONITRILE	6.53	53	26504	2.03	PPBv	#	100
14) 1,1-DICHLOROETHENE	6.86	96	53952	2.40	PPBv	#	100
15) METHYLENE CHLORIDE	6.98	84	47020	2.54	PPBv	#	100
16) FREON 113	7.24	101	133136	2.79	PPBv	#	100
17) CARBON DISULFIDE	7.31	76	147644	2.40	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	7.96	96	63271	1.51	PPBv	#	100
19) 1,1-DICHLOROETHANE	8.18	63	134161	1.64	PPBv	#	100
20) MTBE	8.29	73	140604	1.24	PPBv	#	100
21) IPA	6.34	45	77326	2.44	PPBv	#	100
22) 2-BUTANONE(MEK)	8.67	72	27348	1.30	PPBv	#	100
23) CIS-1,2-DICHLOROETHENE	9.10	96	63479	1.41	PPBv	#	100
24) HEXANE	9.32	57	102012	1.44	PPBv	#	100
25) ETHYL ACETATE	9.38	61	19551m	1.36	PPBv		
26) CHLOROFORM	9.42	83	158370	1.74	PPBv	#	100
27) TETRAHYDROFURAN	9.97	71	20067	1.10	PPBv	#	100
28) 1,2-DICHLOROETHANE	10.27	62	93833	1.60	PPBv	#	100
29) 1,1,1-TRICHLOROETHANE	10.56	97	143185	1.58	PPBv	#	100
30) BENZENE	11.10	78	201969	1.47	PPBv		100
31) CARBON TETRACHLORIDE	11.27	119	131012	1.64	PPBv	#	100
32) CYCLOHEXANE	11.42	56	101592m	1.34	PPBv		
34) 1,2-DICHLOROPROPANE	12.08	63	80559	1.56	PPBv	#	100
35) BROMODICHLOROMETHANE	12.31	83	150537	1.68	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36425.D Vial: 3
Acq On : 15 Feb 2011 3:16 pm Operator: KG
Sample : 2ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:23 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

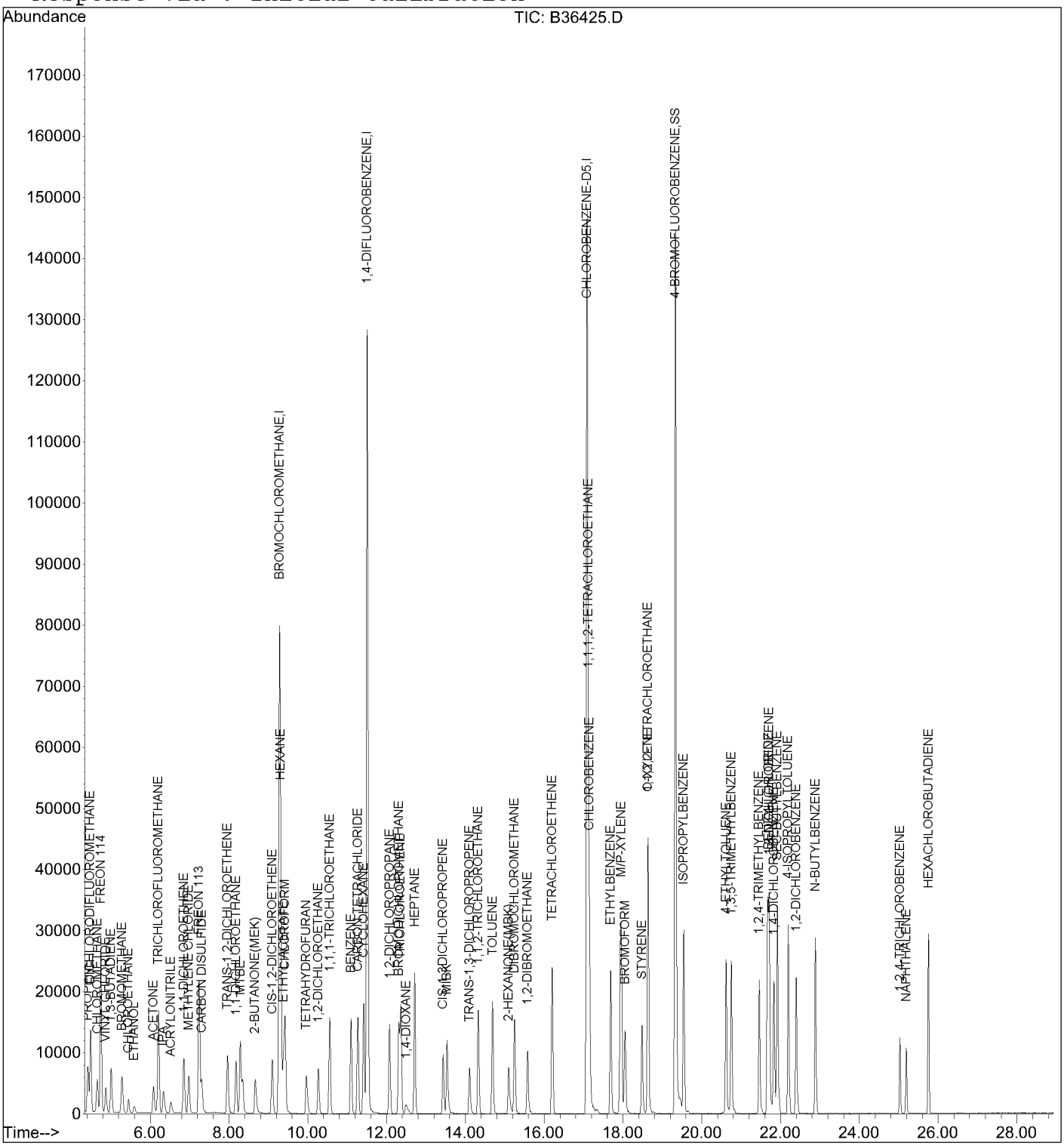
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	TRICHLOROETHENE	12.36	95	85690	1.51	PPBv	#	100
37)	1,4-DIOXANE	12.50	88	29214m	1.30	PPBv		
38)	HEPTANE	12.72	57	63698	1.44	PPBv	#	100
39)	MIBK	13.54	43	144352	1.38	PPBv	#	100
40)	CIS-1,3DICHLOROPROPENE	13.44	75	91119	1.26	PPBv	#	100
41)	TRANS-1,3-DICHLOROPROPENE	14.11	75	72567	1.16	PPBv	#	100
42)	1,1,2-TRICHLOROETHANE	14.33	83	77106	1.69	PPBv	#	100
43)	TOLUENE	14.69	91	214876	1.38	PPBv	#	100
44)	2-HEXANONE(MBK)	15.10	58	49150	1.11	PPBv	#	100
45)	DIBROMOCHLOROMETHANE	15.25	129	137112	1.74	PPBv	#	100
46)	1,2-DIBROMOETHANE	15.58	107	122197	1.60	PPBv	#	100
47)	TETRACHLOROETHENE	16.20	166	109901	1.58	PPBv	#	100
49)	CHLOROBENZENE	17.15	112	198747	1.81	PPBv		96
50)	1,1,1,2-TETRACHLOROETHANE	17.13	131	108357	1.86	PPBv	#	100
51)	ETHYLBENZENE	17.69	91	257138	1.42	PPBv	#	100
52)	M/P-XYLENE	17.95	106	221558	3.24	PPBv		85
53)	BROMOFORM	18.06	173	114271	1.90	PPBv		100
54)	STYRENE	18.48	104	120752	1.28	PPBv	#	100
55)	O-XYLENE	18.64	106	106965	1.63	PPBv		98
56)	1,1,2,2-TETRACHLOROETHANE	18.63	83	193032	2.08	PPBv	#	100
58)	ISOPROPYLBENZENE	19.54	105	301938	1.51	PPBv	#	100
59)	4-ETHYLTOLUENE	20.61	105	263004m	1.41	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	20.75	105	243961	1.46	PPBv	#	100
61)	1,2,4-TRIMETHYLBENZENE	21.46	105	204620	1.35	PPBv		95
62)	1,3-DICHLOROBENZENE	21.71	146	185285m	1.83	PPBv		
63)	BENZYL CHLORIDE	21.69	91	146381	1.47	PPBv		96
64)	1,4-DICHLOROBENZENE	21.83	146	173345	1.63	PPBv	#	72
65)	SEC-BUTYLBENZENE	21.92	105	367716	1.52	PPBv		100
66)	4-ISOPROPYLTOLUENE	22.20	119	270169	1.39	PPBv		98
67)	1,2-DICHLOROBENZENE	22.40	146	158307	1.66	PPBv		97
68)	N-BUTYLBENZENE	22.88	91	238278	1.37	PPBv		96
69)	1,2,4-TRICHLOROBENZENE	25.03	180	59118	1.09	PPBv	#	85
70)	NAPHTHALENE	25.19	128	125201	0.95	PPBv		100
71)	HEXACHLOROBUTADIENE	25.76	225	81877	1.64	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\FEB2011\AIR2\021511\B36425.D Vial: 3
Acq On : 15 Feb 2011 3:16 pm Operator: KG
Sample : 2ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:23 2011 Quant Results File: T2010711H.RE

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36426.D Vial: 4
Acq On : 15 Feb 2011 3:57 pm Operator: KG
Sample : 5ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:35 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.28	128	333868	10.00	PPBv		0.02
33) 1,4-DIFLUOROBENZENE	11.51	114	1563410	10.00	PPBv		0.01
48) CHLOROBENZENE-D5	17.09	82	757402	10.00	PPBv		0.01
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.33	95	877502	10.59	PPBv		0.01
Spiked Amount 10.000	Range 9 - 15		Recovery = 105.90%#				
Target Compounds							Qvalue
2) PROPENE	4.42	42	101615	4.49	PPBv		93
3) DICHLORODIFLUOROMETHANE	4.49	85	460270	4.21	PPBv		100
4) CHLOROMETHANE	4.65	50	212008	4.41	PPBv	#	100
5) FREON 114	4.74	85	529249	4.95	PPBv		96
6) VINYL CHLORIDE	4.87	62	178512	4.63	PPBv		99
7) 1,3-BUTADIENE	5.01	54	125397	4.57	PPBv		98
8) BROMOMETHANE	5.28	94	157451	5.18	PPBv		99
9) CHLOROETHANE	5.45	64	76167	5.21	PPBv	#	42
10) ACETONE	6.06	58	55509	5.71	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.21	101	496226	7.10	PPBv		100
12) ETHANOL	5.58	45	43564	5.63	PPBv	#	44
13) ACRYLONITRILE	6.52	53	69433	5.13	PPBv	#	100
14) 1,1-DICHLOROETHENE	6.85	96	128214	5.48	PPBv	#	100
15) METHYLENE CHLORIDE	6.98	84	105984	5.52	PPBv	#	100
16) FREON 113	7.24	101	304177	6.14	PPBv	#	100
17) CARBON DISULFIDE	7.30	76	336132	5.26	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	7.96	96	157823	3.63	PPBv	#	100
19) 1,1-DICHLOROETHANE	8.18	63	316539	3.73	PPBv	#	100
20) MTBE	8.27	73	369322	3.15	PPBv	#	100
21) IPA	6.32	45	173434	5.27	PPBv	#	100
22) 2-BUTANONE(MEK)	8.65	72	75107	3.43	PPBv	#	100
23) CIS-1,2-DICHLOROETHENE	9.09	96	159959	3.43	PPBv	#	100
24) HEXANE	9.31	57	261979	3.55	PPBv	#	100
25) ETHYL ACETATE	9.36	61	53928	3.62	PPBv	#	100
26) CHLOROFORM	9.42	83	366883	3.88	PPBv	#	100
27) TETRAHYDROFURAN	9.94	71	60307	3.20	PPBv	#	100
28) 1,2-DICHLOROETHANE	10.27	62	224681	3.68	PPBv	#	100
29) 1,1,1-TRICHLOROETHANE	10.56	97	339712	3.61	PPBv	#	100
30) BENZENE	11.10	78	506586	3.55	PPBv		100
31) CARBON TETRACHLORIDE	11.27	119	319538	3.86	PPBv	#	100
32) CYCLOHEXANE	11.41	56	265803m	3.38	PPBv		
34) 1,2-DICHLOROPROPANE	12.07	63	198876	3.76	PPBv	#	100
35) BROMODICHLOROMETHANE	12.31	83	367072	4.00	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36426.D Vial: 4
Acq On : 15 Feb 2011 3:57 pm Operator: KG
Sample : 5ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:35 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

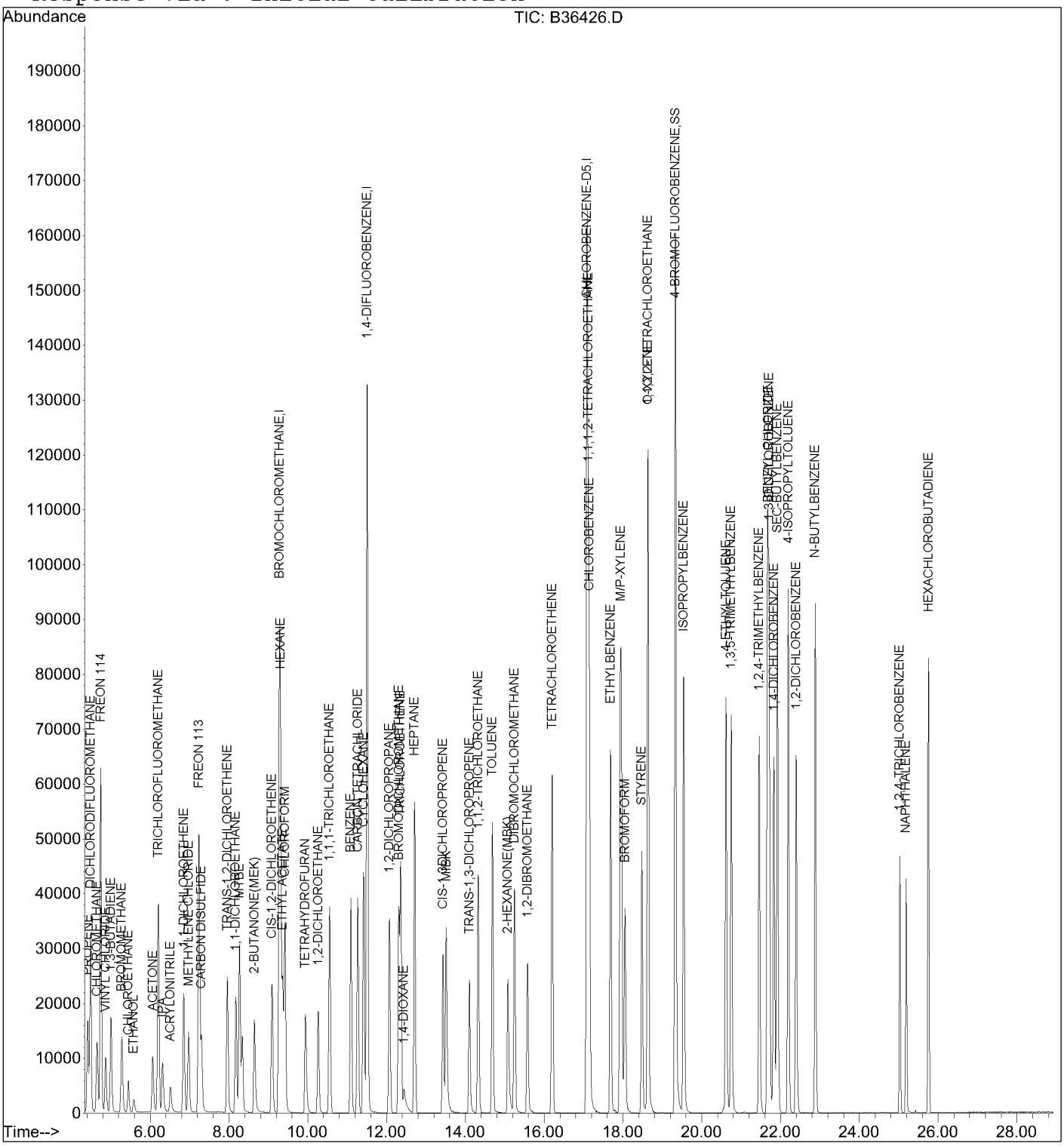
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	TRICHLOROETHENE	12.36	95	216939	3.73	PPBv	#	100
37)	1,4-DIOXANE	12.45	88	81809m	3.55	PPBv		
38)	HEPTANE	12.71	57	170501	3.78	PPBv	#	100
39)	MIBK	13.51	43	389705	3.64	PPBv	#	100
40)	CIS-1,3DICHLOROPROPENE	13.43	75	254671	3.43	PPBv	#	100
41)	TRANS-1,3-DICHLOROPROPENE	14.10	75	207313	3.25	PPBv	#	100
42)	1,1,2-TRICHLOROETHANE	14.33	83	190543	4.08	PPBv	#	100
43)	TOLUENE	14.69	91	573870	3.59	PPBv	#	100
44)	2-HEXANONE(MBK)	15.08	58	155555m	3.44	PPBv		
45)	DIBROMOCHLOROMETHANE	15.25	129	345459	4.29	PPBv	#	100
46)	1,2-DIBROMOETHANE	15.58	107	299841	3.82	PPBv	#	100
47)	TETRACHLOROETHENE	16.20	166	275410	3.87	PPBv	#	100
49)	CHLOROBENZENE	17.15	112	476120	4.12	PPBv		99
50)	1,1,1,2-TETRACHLOROETHANE	17.12	131	270590	4.40	PPBv	#	100
51)	ETHYLBENZENE	17.69	91	716420	3.76	PPBv	#	100
52)	M/P-XYLENE	17.95	106	590650	8.20	PPBv		90
53)	BROMOFORM	18.05	173	290534	4.59	PPBv		96
54)	STYRENE	18.48	104	372241	3.76	PPBv	#	100
55)	O-XYLENE	18.64	106	300272	4.35	PPBv		95
56)	1,1,2,2-TETRACHLOROETHANE	18.63	83	481351	4.92	PPBv	#	100
58)	ISOPROPYLBENZENE	19.54	105	860255	4.07	PPBv	#	100
59)	4-ETHYLTOLUENE	20.61	105	811860m	4.13	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	20.75	105	656935	3.74	PPBv	#	100
61)	1,2,4-TRIMETHYLBENZENE	21.46	105	638723	4.00	PPBv		96
62)	1,3-DICHLOROBENZENE	21.71	146	499371m	4.69	PPBv		
63)	BENZYL CHLORIDE	21.69	91	440222	4.20	PPBv		98
64)	1,4-DICHLOROBENZENE	21.83	146	482438	4.32	PPBv	#	73
65)	SEC-BUTYLBENZENE	21.92	105	1076291	4.22	PPBv		99
66)	4-ISOPROPYLTOLUENE	22.20	119	833058	4.08	PPBv		97
67)	1,2-DICHLOROBENZENE	22.40	146	441357	4.40	PPBv		97
68)	N-BUTYLBENZENE	22.88	91	762259	4.15	PPBv		97
69)	1,2,4-TRICHLOROBENZENE	25.03	180	198437	3.47	PPBv		98
70)	NAPHTHALENE	25.19	128	464566	3.36	PPBv		100
71)	HEXACHLOROBUTADIENE	25.76	225	224230	4.27	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\FEB2011\AIR2\021511\B36426.D Vial: 4
Acq On : 15 Feb 2011 3:57 pm Operator: KG
Sample : 5ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:35 2011 Quant Results File: T2010711H.RE

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36427.D Vial: 5
Acq On : 15 Feb 2011 4:37 pm Operator: KG
Sample : 10ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:35 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.28	128	349797	10.00	PPBv		0.01
33) 1,4-DIFLUOROBENZENE	11.51	114	1645650	10.00	PPBv		0.01
48) CHLOROBENZENE-D5	17.09	82	822028	10.00	PPBv		0.01
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.33	95	923142	10.26	PPBv		0.00
Spiked Amount 10.000	Range 9 - 15		Recovery = 102.60%#				
Target Compounds							Qvalue
2) PROPENE	4.41	42	206749	8.01	PPBv		96
3) DICHLORODIFLUOROMETHANE	4.48	85	910756	7.95	PPBv		100
4) CHLOROMETHANE	4.65	50	417228	8.28	PPBv	#	100
5) FREON 114	4.74	85	1035729	9.25	PPBv		96
6) VINYL CHLORIDE	4.87	62	351206	8.69	PPBv		99
7) 1,3-BUTADIENE	5.00	54	251183	8.75	PPBv		97
8) BROMOMETHANE	5.28	94	309058	9.71	PPBv		100
9) CHLOROETHANE	5.45	64	146546	9.56	PPBv		98
10) ACETONE	6.05	58	106182	10.42	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.21	101	949001	12.97	PPBv		100
12) ETHANOL	5.57	45	85992	10.60	PPBv	#	98
13) ACRYLONITRILE	6.51	53	127827	9.01	PPBv	#	100
14) 1,1-DICHLOROETHENE	6.85	96	251890	10.28	PPBv	#	100
15) METHYLENE CHLORIDE	6.97	84	206234	10.26	PPBv	#	100
16) FREON 113	7.24	101	594300	11.45	PPBv	#	100
17) CARBON DISULFIDE	7.30	76	674345	10.07	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	7.96	96	323314	7.09	PPBv	#	100
19) 1,1-DICHLOROETHANE	8.17	63	627383	7.05	PPBv	#	100
20) MTBE	8.26	73	778006	6.33	PPBv	#	100
21) IPA	6.30	45	344867	10.00	PPBv	#	100
22) 2-BUTANONE(MEK)	8.63	72	160803	7.01	PPBv	#	100
23) CIS-1,2-DICHLOROETHENE	9.09	96	338828	6.93	PPBv	#	100
24) HEXANE	9.31	57	556712	7.21	PPBv	#	100
25) ETHYL ACETATE	9.35	61	118006	7.57	PPBv	#	100
26) CHLOROFORM	9.42	83	730265	7.38	PPBv	#	100
27) TETRAHYDROFURAN	9.93	71	134489	6.80	PPBv	#	100
28) 1,2-DICHLOROETHANE	10.26	62	448491	7.01	PPBv	#	100
29) 1,1,1-TRICHLOROETHANE	10.55	97	695571	7.05	PPBv	#	100
30) BENZENE	11.09	78	1052498	7.03	PPBv		100
31) CARBON TETRACHLORIDE	11.27	119	657023	7.58	PPBv	#	100
32) CYCLOHEXANE	11.41	56	567833m	6.89	PPBv		
34) 1,2-DICHLOROPROPANE	12.07	63	404665	7.26	PPBv	#	100
35) BROMODICHLOROMETHANE	12.31	83	748254	7.74	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36427.D Vial: 5
Acq On : 15 Feb 2011 4:37 pm Operator: KG
Sample : 10ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:35 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

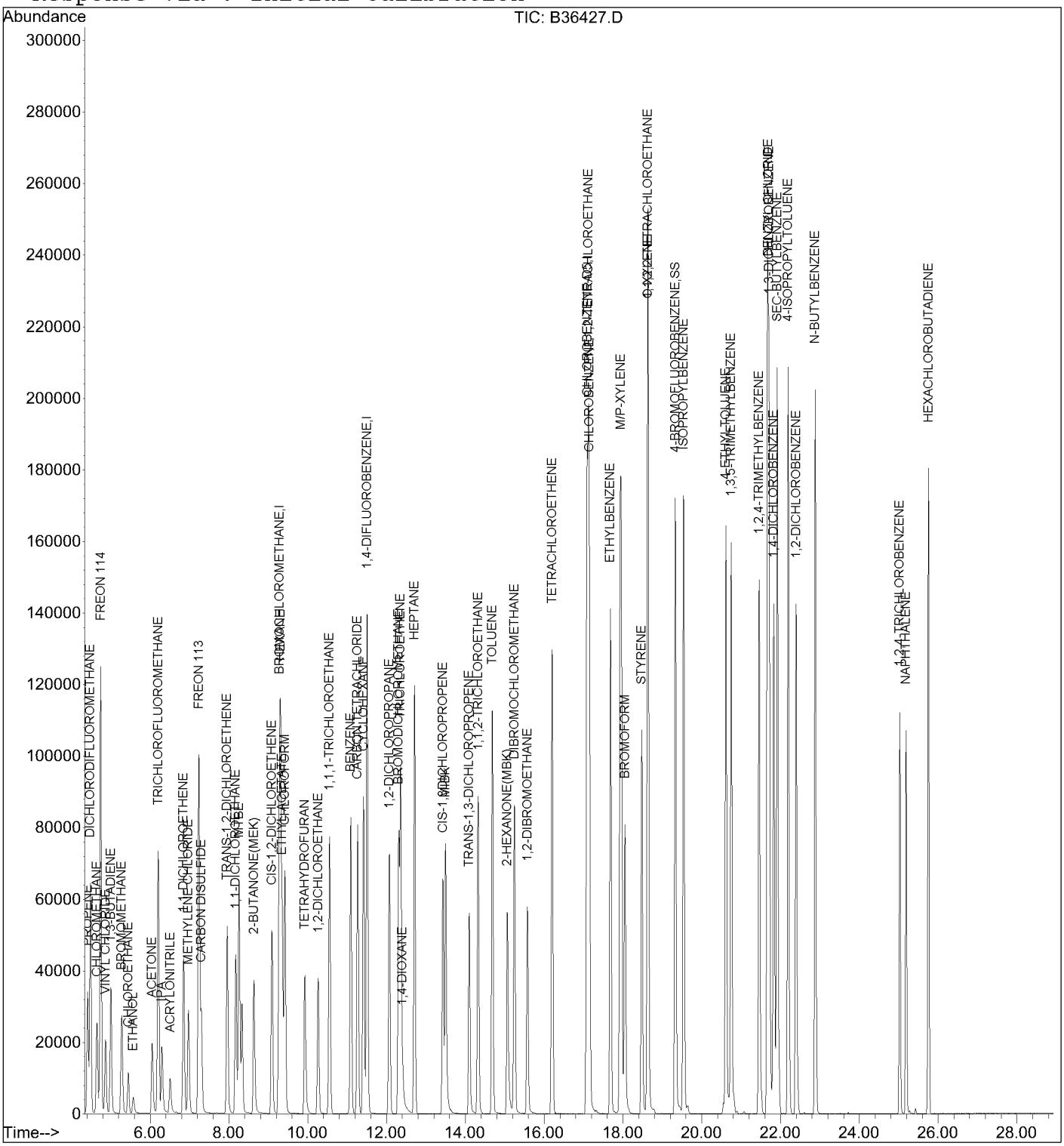
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	TRICHLOROETHENE	12.36	95	456776	7.46	PPBv	#	100
37)	1,4-DIOXANE	12.41	88	171911m	7.09	PPBv		
38)	HEPTANE	12.71	57	360776	7.59	PPBv	#	100
39)	MIBK	13.50	43	835745	7.42	PPBv	#	100
40)	CIS-1,3DICHLOROPROPENE	13.43	75	547667	7.00	PPBv	#	100
41)	TRANS-1,3-DICHLOROPROPENE	14.10	75	453933	6.75	PPBv	#	100
42)	1,1,2-TRICHLOROETHANE	14.32	83	380241	7.74	PPBv	#	100
43)	TOLUENE	14.69	91	1242730	7.39	PPBv	#	100
44)	2-HEXANONE(MBK)	15.06	58	362662m	7.62	PPBv		
45)	DIBROMOCHLOROMETHANE	15.25	129	712806	8.41	PPBv	#	100
46)	1,2-DIBROMOETHANE	15.58	107	628639	7.62	PPBv	#	100
47)	TETRACHLOROETHENE	16.20	166	571890	7.63	PPBv	#	100
49)	CHLOROBENZENE	17.15	112	986895	7.87	PPBv		99
50)	1,1,1,2-TETRACHLOROETHANE	17.12	131	549539	8.22	PPBv	#	100
51)	ETHYLBENZENE	17.68	91	1571522	7.59	PPBv	#	100
52)	M/P-XYLENE	17.94	106	1263698	16.16	PPBv		90
53)	BROMOFORM	18.05	173	632057	9.21	PPBv		97
54)	STYRENE	18.48	104	831478	7.73	PPBv	#	100
55)	O-XYLENE	18.64	106	623784	8.32	PPBv		97
56)	1,1,2,2-TETRACHLOROETHANE	18.63	83	979247	9.22	PPBv	#	100
58)	ISOPROPYLBENZENE	19.54	105	1781081	7.77	PPBv	#	100
59)	4-ETHYLTOLUENE	20.61	105	1767027m	8.29	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	20.75	105	1448777	7.60	PPBv	#	100
61)	1,2,4-TRIMETHYLBENZENE	21.46	105	1406448	8.11	PPBv		96
62)	1,3-DICHLOROBENZENE	21.71	146	1043373m	9.03	PPBv		
63)	BENZYL CHLORIDE	21.69	91	985629	8.66	PPBv		100
64)	1,4-DICHLOROBENZENE	21.83	146	1029655	8.49	PPBv	#	72
65)	SEC-BUTYLBENZENE	21.92	105	2315247	8.36	PPBv		99
66)	4-ISOPROPYLTOLUENE	22.19	119	1839893	8.29	PPBv		97
67)	1,2-DICHLOROBENZENE	22.40	146	957560	8.79	PPBv		98
68)	N-BUTYLBENZENE	22.88	91	1687739	8.48	PPBv		98
69)	1,2,4-TRICHLOROBENZENE	25.03	180	472289	7.60	PPBv		99
70)	NAPHTHALENE	25.19	128	1140429	7.59	PPBv		100
71)	HEXACHLOROBUTADIENE	25.76	225	487010	8.54	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\FEB2011\AIR2\021511\B36427.D Vial: 5
Acq On : 15 Feb 2011 4:37 pm Operator: KG
Sample : 10ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:35 2011 Quant Results File: T2010711H.RE

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36428.D Vial: 6
Acq On : 15 Feb 2011 5:19 pm Operator: KG
Sample : 20ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:35 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.28	128	350646	10.00	PPBv		0.01
33) 1,4-DIFLUOROBENZENE	11.51	114	1644820	10.00	PPBv		0.01
48) CHLOROBENZENE-D5	17.09	82	879135	10.00	PPBv		0.01
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.33	95	946088	9.83	PPBv		0.00
Spiked Amount 10.000	Range 9 - 15		Recovery = 98.30%#				
Target Compounds							Qvalue
2) PROPENE	4.41	42	419055	15.43	PPBv		95
3) DICHLORODIFLUOROMETHANE	4.48	85	1774024	15.46	PPBv		100
4) CHLOROMETHANE	4.65	50	856994	16.97	PPBv	#	100
5) FREON 114	4.74	85	2077605	18.51	PPBv		97
6) VINYL CHLORIDE	4.86	62	698379	17.24	PPBv		100
7) 1,3-BUTADIENE	5.00	54	518316	18.00	PPBv		96
8) BROMOMETHANE	5.27	94	612182	19.18	PPBv		100
9) CHLOROETHANE	5.44	64	293246	19.09	PPBv		98
10) ACETONE	6.04	58	216391	21.18	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.20	101	1875471	25.57	PPBv		99
12) ETHANOL	5.56	45	169761	20.88	PPBv	#	98
13) ACRYLONITRILE	6.50	53	274072	19.28	PPBv	#	100
14) 1,1-DICHLOROETHENE	6.85	96	515431	20.99	PPBv	#	100
15) METHYLENE CHLORIDE	6.97	84	423787	21.02	PPBv	#	100
16) FREON 113	7.23	101	1193336	22.93	PPBv	#	100
17) CARBON DISULFIDE	7.29	76	1392581	20.76	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	7.95	96	681963	14.92	PPBv	#	100
19) 1,1-DICHLOROETHANE	8.17	63	1288743	14.46	PPBv	#	100
20) MTBE	8.25	73	1698256	13.78	PPBv	#	100
21) IPA	6.28	45	721707	20.87	PPBv	#	100
22) 2-BUTANONE(MEK)	8.62	72	352492	15.34	PPBv	#	100
23) CIS-1,2-DICHLOROETHENE	9.09	96	729233	14.87	PPBv	#	100
24) HEXANE	9.31	57	1206356	15.58	PPBv	#	100
25) ETHYL ACETATE	9.35	61	247941	15.87	PPBv	#	100
26) CHLOROFORM	9.42	83	1506316	15.18	PPBv	#	100
27) TETRAHYDROFURAN	9.91	71	299508	15.11	PPBv	#	100
28) 1,2-DICHLOROETHANE	10.26	62	929488	14.49	PPBv	#	100
29) 1,1,1-TRICHLOROETHANE	10.55	97	1466610	14.84	PPBv	#	100
30) BENZENE	11.09	78	2243844	14.95	PPBv		100
31) CARBON TETRACHLORIDE	11.27	119	1397316	16.08	PPBv	#	100
32) CYCLOHEXANE	11.41	56	1222621m	14.80	PPBv		
34) 1,2-DICHLOROPROPANE	12.07	63	859003	15.43	PPBv	#	100
35) BROMODICHLOROMETHANE	12.31	83	1584125	16.40	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36428.D Vial: 6
Acq On : 15 Feb 2011 5:19 pm Operator: KG
Sample : 20ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:35 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

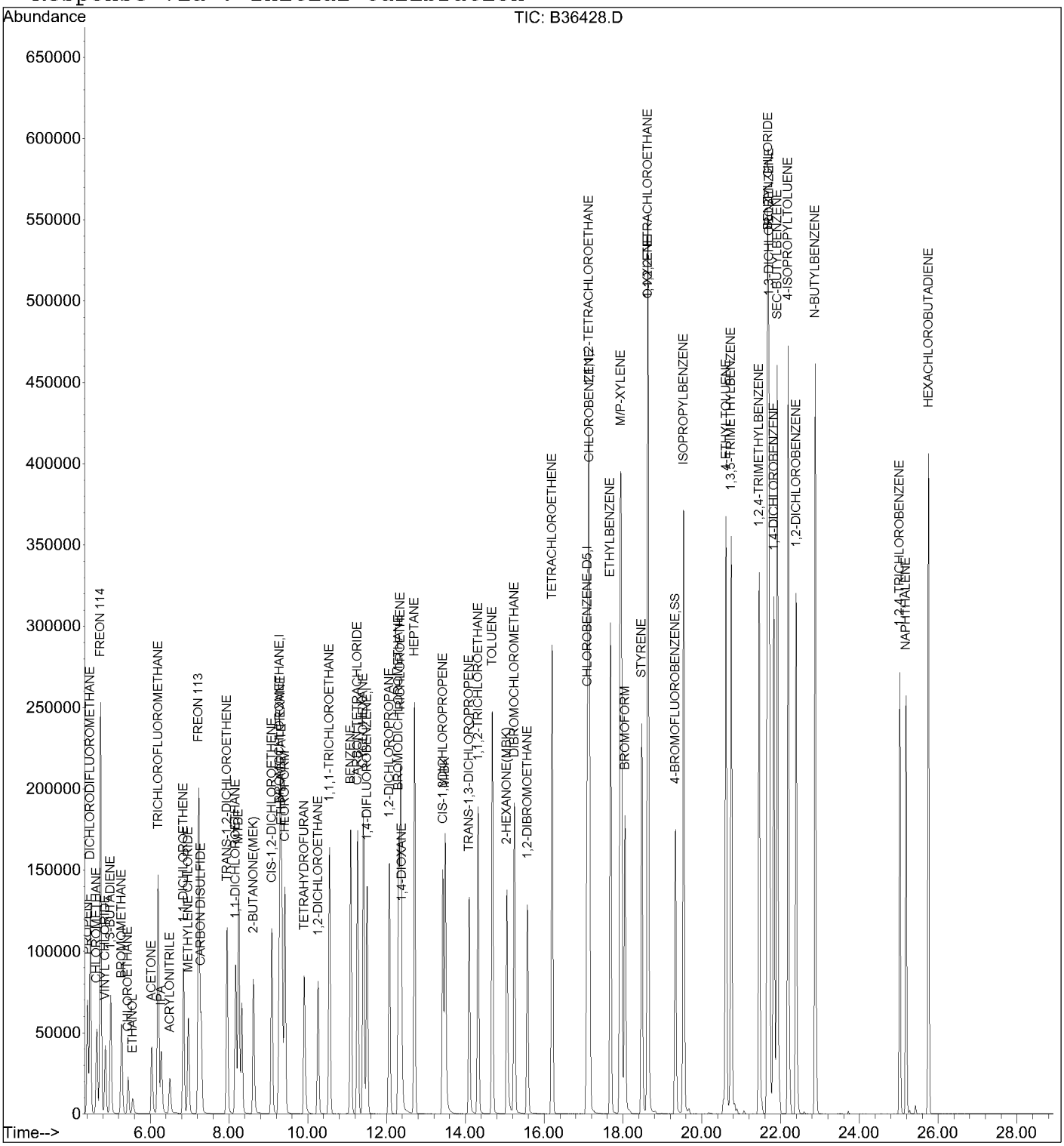
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	TRICHLOROETHENE	12.36	95	989643	16.17	PPBv	#	100
37)	1,4-DIOXANE	12.39	88	415539m	17.14	PPBv		
38)	HEPTANE	12.71	57	778353	16.38	PPBv	#	100
39)	MIBK	13.49	43	1846505	16.41	PPBv	#	100
40)	CIS-1,3DICHLOROPROPENE	13.43	75	1235176	15.81	PPBv	#	100
41)	TRANS-1,3-DICHLOROPROPENE	14.10	75	1072953	15.96	PPBv	#	100
42)	1,1,2-TRICHLOROETHANE	14.32	83	802697	16.36	PPBv	#	100
43)	TOLUENE	14.69	91	2724112	16.21	PPBv	#	100
44)	2-HEXANONE(MBK)	15.05	58	848546m	17.84	PPBv		
45)	DIBROMOCHLOROMETHANE	15.25	129	1560629	18.43	PPBv	#	100
46)	1,2-DIBROMOETHANE	15.58	107	1379949	16.73	PPBv	#	100
47)	TETRACHLOROETHENE	16.20	166	1246435	16.65	PPBv	#	100
49)	CHLOROBENZENE	17.15	112	2119778	15.80	PPBv		99
50)	1,1,1,2-TETRACHLOROETHANE	17.12	131	1183788	16.57	PPBv	#	100
51)	ETHYLBENZENE	17.68	91	3464274	15.65	PPBv	#	100
52)	M/P-XYLENE	17.95	106	2755896	32.95	PPBv		92
53)	BROMOFORM	18.05	173	1429946	19.48	PPBv		98
54)	STYRENE	18.48	104	1886451	16.40	PPBv	#	100
55)	O-XYLENE	18.64	106	1374895	17.14	PPBv		96
56)	1,1,2,2-TETRACHLOROETHANE	18.63	83	2085767	18.36	PPBv	#	100
58)	ISOPROPYLBENZENE	19.54	105	3900277	15.91	PPBv	#	100
59)	4-ETHYLTOLUENE	20.61	105	3944791m	17.30	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	20.75	105	3289982m	16.14	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.46	105	3122260	16.84	PPBv		95
62)	1,3-DICHLOROBENZENE	21.71	146	2194932	17.77	PPBv		99
63)	BENZYL CHLORIDE	21.69	91	2315254	19.01	PPBv		100
64)	1,4-DICHLOROBENZENE	21.83	146	2242088	17.28	PPBv	#	72
65)	SEC-BUTYLBENZENE	21.92	105	5000472	16.89	PPBv		99
66)	4-ISOPROPYLTOLUENE	22.19	119	4060985	17.12	PPBv		97
67)	1,2-DICHLOROBENZENE	22.40	146	2072610	17.79	PPBv		98
68)	N-BUTYLBENZENE	22.88	91	3814909	17.91	PPBv		98
69)	1,2,4-TRICHLOROBENZENE	25.02	180	1138842m	17.14	PPBv		
70)	NAPHTHALENE	25.19	128	2759003	17.18	PPBv		100
71)	HEXACHLOROBUTADIENE	25.76	225	1107481	18.15	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\FEB2011\AIR2\021511\B36428.D Vial: 6
Acq On : 15 Feb 2011 5:19 pm Operator: KG
Sample : 20ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:35 2011 Quant Results File: T2010711H.RE

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36430.D Vial: 2
Acq On : 15 Feb 2011 6:41 pm Operator: KG
Sample : 25ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:27 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.28	128	343396	10.00	PPBv		0.02
33) 1,4-DIFLUOROBENZENE	11.51	114	1613457	10.00	PPBv		0.02
48) CHLOROBENZENE-D5	17.09	82	819876m	10.00	PPBv		0.01
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.33	95	944157	10.52	PPBv		0.01
Spiked Amount 10.000	Range 9 - 15		Recovery = 105.20%#				
Target Compounds							Qvalue
2) PROPENE	4.42	42	659704	24.35	PPBv		96
3) DICHLORODIFLUOROMETHANE	4.49	85	2908923	25.88	PPBv		100
4) CHLOROMETHANE	4.65	50	1301985	26.33	PPBv	#	100
5) FREON 114	4.75	85	3266348	29.71	PPBv		97
6) VINYL CHLORIDE	4.87	62	1112104	28.03	PPBv		99
7) 1,3-BUTADIENE	5.00	54	824460	29.24	PPBv		96
8) BROMOMETHANE	5.28	94	970739	31.05	PPBv		100
9) CHLOROETHANE	5.45	64	483182	32.11	PPBv		98
10) ACETONE	6.04	58	349298	34.91	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.21	101	3010089	41.90	PPBv		100
12) ETHANOL	5.56	45	232898	29.25	PPBv	#	98
13) ACRYLONITRILE	6.50	53	409526	29.41	PPBv	#	100
14) 1,1-DICHLOROETHENE	6.85	96	809116	33.65	PPBv	#	100
15) METHYLENE CHLORIDE	6.97	84	667188	33.80	PPBv	#	100
16) FREON 113	7.24	101	1870501	36.70	PPBv	#	100
17) CARBON DISULFIDE	7.30	76	2202641	33.52	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	7.96	96	1091341	24.38	PPBv	#	100
19) 1,1-DICHLOROETHANE	8.18	63	2068200	23.69	PPBv	#	100
20) MTBE	8.25	73	2750411	22.79	PPBv	#	100
21) IPA	6.28	45	1089843	32.18	PPBv	#	100
22) 2-BUTANONE(MEK)	8.62	72	560518	24.90	PPBv	#	100
23) CIS-1,2-DICHLOROETHENE	9.09	96	1174979	24.47	PPBv	#	100
24) HEXANE	9.31	57	1961784	25.87	PPBv	#	100
25) ETHYL ACETATE	9.35	61	405529	26.50	PPBv	#	100
26) CHLOROFORM	9.42	83	2432994	25.04	PPBv	#	100
27) TETRAHYDROFURAN	9.91	71	475633	24.51	PPBv	#	100
28) 1,2-DICHLOROETHANE	10.27	62	1488328	23.70	PPBv	#	100
29) 1,1,1-TRICHLOROETHANE	10.56	97	2397609	24.76	PPBv	#	100
30) BENZENE	11.10	78	3610787	24.57	PPBv		100
31) CARBON TETRACHLORIDE	11.27	119	2324391	27.31	PPBv	#	100
32) CYCLOHEXANE	11.41	56	1991145m	24.61	PPBv		
34) 1,2-DICHLOROPROPANE	12.07	63	1384836	25.35	PPBv	#	100
35) BROMODICHLOROMETHANE	12.31	83	2585703	27.30	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36430.D Vial: 2
Acq On : 15 Feb 2011 6:41 pm Operator: KG
Sample : 25ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:27 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

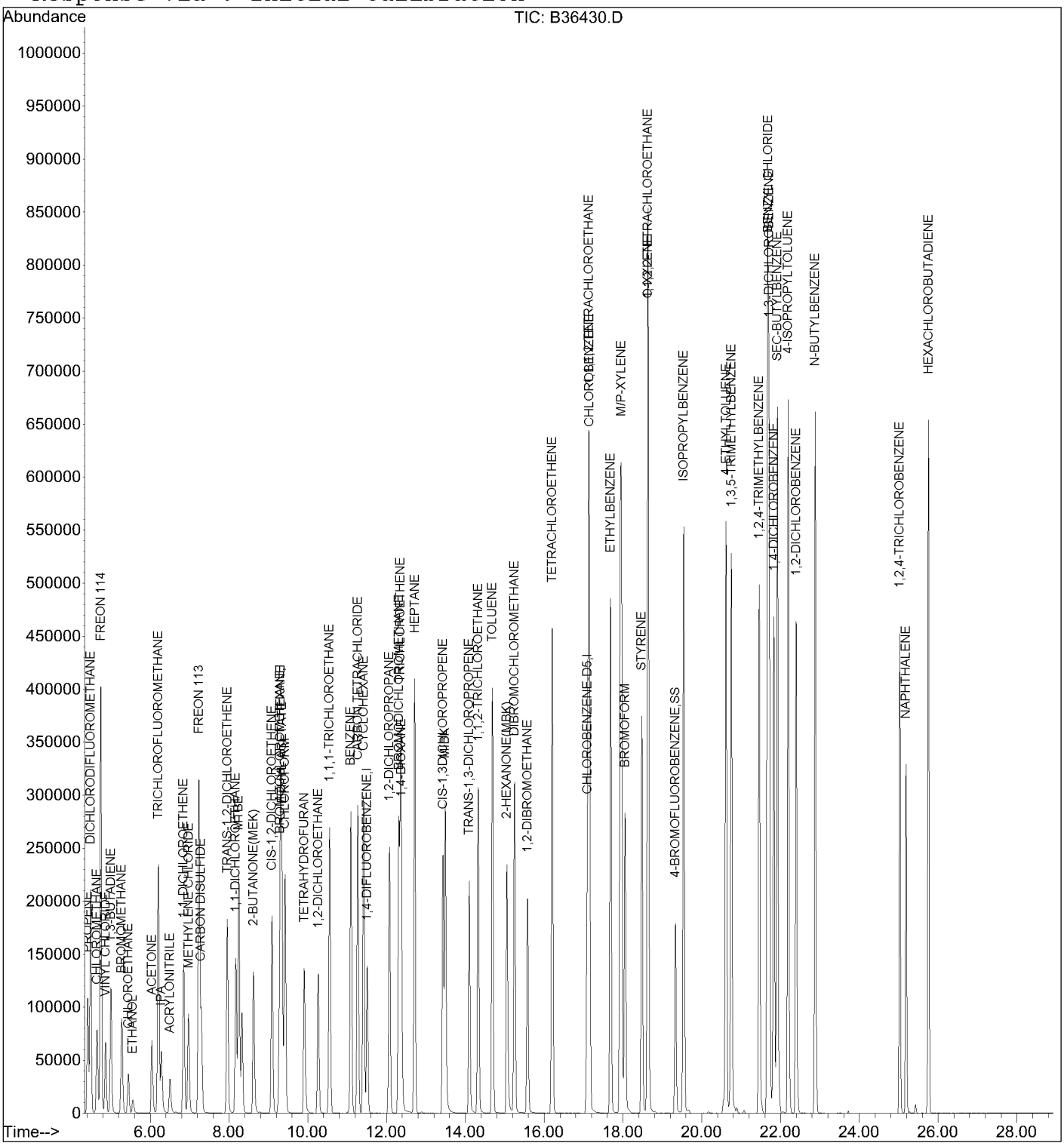
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	TRICHLOROETHENE	12.36	95	1615720	26.92	PPBv	#	100
37)	1,4-DIOXANE	12.38	88	631560m	26.56	PPBv		
38)	HEPTANE	12.71	57	1264034	27.12	PPBv	#	100
39)	MIBK	13.49	43	3109710	28.17	PPBv	#	100
40)	CIS-1,3DICHLOROPROPENE	13.43	75	2021127	26.37	PPBv	#	100
41)	TRANS-1,3-DICHLOROPROPENE	14.10	75	1746772	26.50	PPBv	#	100
42)	1,1,2-TRICHLOROETHANE	14.33	83	1296586	26.93	PPBv	#	100
43)	TOLUENE	14.69	91	4387261	26.61	PPBv	#	100
44)	2-HEXANONE(MBK)	15.05	58	1361266	29.18	PPBv	#	100
45)	DIBROMOCHLOROMETHANE	15.25	129	2534084	30.50	PPBv	#	100
46)	1,2-DIBROMOETHANE	15.58	107	2192235	27.09	PPBv	#	100
47)	TETRACHLOROETHENE	16.21	166	1986248	27.05	PPBv	#	100
49)	CHLOROBENZENE	17.15	112	3326565	26.59	PPBv		99
50)	1,1,1,2-TETRACHLOROETHANE	17.13	131	1781878	26.74	PPBv	#	100
51)	ETHYLBENZENE	17.69	91	5465341	26.47	PPBv	#	100
52)	M/P-XYLENE	17.95	106	4295889	55.07	PPBv		93
53)	BROMOFORM	18.06	173	2205331	32.21	PPBv		98
54)	STYRENE	18.48	104	2917380	27.20	PPBv	#	100
55)	O-XYLENE	18.64	106	2132027	28.51	PPBv		97
56)	1,1,2,2-TETRACHLOROETHANE	18.63	83	3129837	29.54	PPBv	#	100
58)	ISOPROPYLBENZENE	19.54	105	5786027	25.30	PPBv	#	100
59)	4-ETHYLTOLUENE	20.62	105	5778958	27.18	PPBv	#	87
60)	1,3,5-TRIMETHYLBENZENE	20.75	105	4658324	24.51	PPBv	#	100
61)	1,2,4-TRIMETHYLBENZENE	21.46	105	4640028	26.83	PPBv		95
62)	1,3-DICHLOROBENZENE	21.71	146	3179199	27.60	PPBv		99
63)	BENZYL CHLORIDE	21.69	91	3645451	32.10	PPBv		99
64)	1,4-DICHLOROBENZENE	21.83	146	3191774	26.37	PPBv	#	72
65)	SEC-BUTYLBENZENE	21.92	105	7179068	26.00	PPBv		99
66)	4-ISOPROPYLTOLUENE	22.20	119	5787886	26.16	PPBv		97
67)	1,2-DICHLOROBENZENE	22.40	146	2987533	27.49	PPBv		98
68)	N-BUTYLBENZENE	22.88	91	5332536	26.85	PPBv		99
69)	1,2,4-TRICHLOROBENZENE	25.03	180	1841513	29.71	PPBv		99
70)	NAPHTHALENE	25.19	128	3458218	23.08	PPBv		100
71)	HEXACHLOROBUTADIENE	25.76	225	1754867	30.84	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\FEB2011\AIR2\021511\B36430.D Vial: 2
Acq On : 15 Feb 2011 6:41 pm Operator: KG
Sample : 25ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:27 2011 Quant Results File: T2010711H.RE

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36431.D Vial: 2
Acq On : 15 Feb 2011 7:22 pm Operator: KG
Sample : 50ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:29 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.29	128	374071	10.00	PPBv		0.02
33) 1,4-DIFLUOROBENZENE	11.51	114	1753727	10.00	PPBv		0.02
48) CHLOROBENZENE-D5	17.09	82	1016404m	10.00	PPBv		0.01
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.33	95	1046204	9.41	PPBv		0.01
Spiked Amount 10.000	Range 9 - 15		Recovery = 94.10%#				
Target Compounds							Qvalue
2) PROPENE	4.42	42	1442421	48.12	PPBv		95
3) DICHLORODIFLUOROMETHANE	4.49	85	6389561	52.18	PPBv		100
4) CHLOROMETHANE	4.65	50	2754411	51.14	PPBv	#	100
5) FREON 114	4.75	85	6637143	55.43	PPBv		98
6) VINYL CHLORIDE	4.87	62	2305686	53.36	PPBv		99
7) 1,3-BUTADIENE	5.01	54	1697621	55.27	PPBv		95
8) BROMOMETHANE	5.28	94	2013279	59.12	PPBv		100
9) CHLOROETHANE	5.45	64	997198	60.84	PPBv		98
10) ACETONE	6.04	58	719049	65.97	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.21	101	5933741	75.83	PPBv		99
12) ETHANOL	5.56	45	486516	56.09	PPBv	#	99
13) ACRYLONITRILE	6.50	53	861530	56.80	PPBv	#	100
14) 1,1-DICHLOROETHENE	6.85	96	1650640	63.02	PPBv	#	100
15) METHYLENE CHLORIDE	6.98	84	1344091	62.50	PPBv	#	100
16) FREON 113	7.24	101	3722063	67.05	PPBv	#	100
17) CARBON DISULFIDE	7.30	76	4603362	64.31	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	7.96	96	2409678	49.42	PPBv	#	100
19) 1,1-DICHLOROETHANE	8.18	63	4473707	47.04	PPBv	#	100
20) MTBE	8.25	73	6252766	47.56	PPBv	#	100
21) IPA	6.28	45	2331667	63.20	PPBv	#	100
22) 2-BUTANONE(MEK)	8.62	72	1242123	50.66	PPBv	#	100
23) CIS-1,2-DICHLOROETHENE	9.09	96	2586897	49.45	PPBv	#	100
24) HEXANE	9.32	57	4219179	51.08	PPBv	#	100
25) ETHYL ACETATE	9.35	61	894234	53.64	PPBv	#	100
26) CHLOROFORM	9.43	83	5231197	49.42	PPBv	#	100
27) TETRAHYDROFURAN	9.90	71	1056992	49.99	PPBv	#	100
28) 1,2-DICHLOROETHANE	10.27	62	3253890	47.56	PPBv	#	100
29) 1,1,1-TRICHLOROETHANE	10.56	97	5318984	50.43	PPBv	#	100
30) BENZENE	11.10	78	7784776	48.63	PPBv		100
31) CARBON TETRACHLORIDE	11.27	119	5184708	55.91	PPBv	#	100
32) CYCLOHEXANE	11.42	56	4242194	48.13	PPBv	#	100
34) 1,2-DICHLOROPROPANE	12.08	63	2991215	50.38	PPBv	#	100
35) BROMODICHLOROMETHANE	12.31	83	5716686	55.52	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36431.D Vial: 2
Acq On : 15 Feb 2011 7:22 pm Operator: KG
Sample : 50ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:29 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

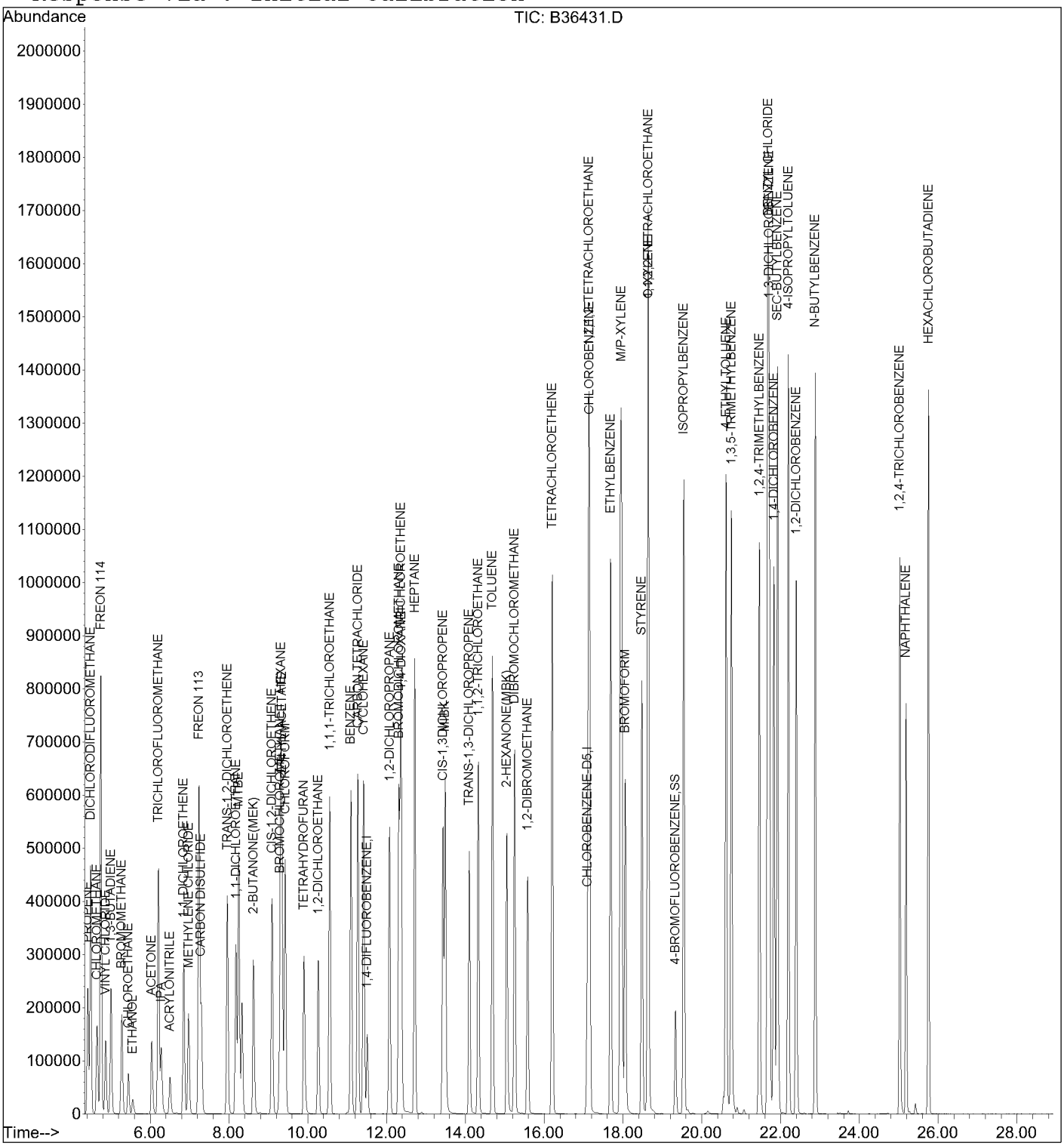
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	TRICHLOROETHENE	12.36	95	3522876	53.99	PPBv	#	100
37)	1,4-DIOXANE	12.38	88	1404126m	54.33	PPBv		
38)	HEPTANE	12.72	57	2707124	53.44	PPBv	#	100
39)	MIBK	13.49	43	6679568	55.67	PPBv	#	100
40)	CIS-1,3DICHLOROPROPENE	13.43	75	4510975	54.14	PPBv	#	100
41)	TRANS-1,3-DICHLOROPROPENE	14.10	75	3971804	55.43	PPBv	#	100
42)	1,1,2-TRICHLOROETHANE	14.33	83	2795498	53.42	PPBv	#	100
43)	TOLUENE	14.69	91	9496206	52.99	PPBv	#	100
44)	2-HEXANONE(MBK)	15.05	58	3053114	60.21	PPBv	#	100
45)	DIBROMOCHLOROMETHANE	15.25	129	5603672	62.05	PPBv	#	100
46)	1,2-DIBROMOETHANE	15.58	107	4818615	54.79	PPBv	#	100
47)	TETRACHLOROETHENE	16.21	166	4361368	54.64	PPBv	#	100
49)	CHLOROBENZENE	17.15	112	7077000	45.64	PPBv		100
50)	1,1,1,2-TETRACHLOROETHANE	17.13	131	3865837	46.79	PPBv	#	100
51)	ETHYLBENZENE	17.69	91	11888045	46.45	PPBv	#	100
52)	M/P-XYLENE	17.95	106	9189290	95.02	PPBv		99
53)	BROMOFORM	18.06	173	4970918	58.56	PPBv		98
54)	STYRENE	18.48	104	6431034	48.37	PPBv	#	100
55)	O-XYLENE	18.64	106	4444823	47.94	PPBv		99
56)	1,1,2,2-TETRACHLOROETHANE	18.63	83	6314719	48.07	PPBv	#	100
58)	ISOPROPYLBENZENE	19.54	105	12513017	44.14	PPBv	#	100
59)	4-ETHYLTOLUENE	20.61	105	12977825m	49.23	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	20.75	105	10396645m	44.13	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.46	105	10237700	47.76	PPBv		96
62)	1,3-DICHLOROBENZENE	21.72	146	6750947	47.27	PPBv		100
63)	BENZYL CHLORIDE	21.69	91	8151928	57.90	PPBv		98
64)	1,4-DICHLOROBENZENE	21.83	146	6978317	46.51	PPBv	#	72
65)	SEC-BUTYLBENZENE	21.92	105	15176474	44.34	PPBv		100
66)	4-ISOPROPYLTOLUENE	22.20	119	12357260	45.05	PPBv		98
67)	1,2-DICHLOROBENZENE	22.40	146	6425909	47.70	PPBv		98
68)	N-BUTYLBENZENE	22.88	91	11401370	46.31	PPBv		99
69)	1,2,4-TRICHLOROBENZENE	25.03	180	4286268	55.78	PPBv		99
70)	NAPHTHALENE	25.19	128	8112526	43.68	PPBv		100
71)	HEXACHLOROBUTADIENE	25.76	225	3774371	53.50	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\FEB2011\AIR2\021511\B36431.D Vial: 2
Acq On : 15 Feb 2011 7:22 pm Operator: KG
Sample : 50ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:29 2011 Quant Results File: T2010711H.RE

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36432.D Vial: 2
Acq On : 15 Feb 2011 8:03 pm Operator: KG
Sample : 100ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:30 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.29	128	423325	10.00	PPBv		0.02
33) 1,4-DIFLUOROBENZENE	11.51	114	1987567	10.00	PPBv		0.02
48) CHLOROBENZENE-D5	17.09	82	1307614m	10.00	PPBv		0.02
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.34	95	1215909	8.50	PPBv		0.01
Spiked Amount 10.000	Range 9 - 15		Recovery = 85.00%#				
Target Compounds							Qvalue
2) PROPENE	4.41	42	2991395	87.56	PPBv		95
3) DICHLORODIFLUOROMETHANE	4.49	85	13037239	94.08	PPBv		100
4) CHLOROMETHANE	4.65	50	5613002	92.08	PPBv	#	100
5) FREON 114	4.74	85	12536863	92.51	PPBv		100
6) VINYL CHLORIDE	4.87	62	4622228	94.52	PPBv		100
7) 1,3-BUTADIENE	5.00	54	3368663	96.92	PPBv		95
8) BROMOMETHANE	5.28	94	4024684	104.44	PPBv		100
9) CHLOROETHANE	5.45	64	1984303	106.97	PPBv		98
10) ACETONE	6.04	58	1453591	117.85	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.21	101	11205077	126.53	PPBv		100
12) ETHANOL	5.56	45	1004080	102.28	PPBv	#	99
13) ACRYLONITRILE	6.50	53	1803265	105.06	PPBv	#	100
14) 1,1-DICHLOROETHENE	6.85	96	3315572	111.85	PPBv	#	100
15) METHYLENE CHLORIDE	6.97	84	2683558	110.27	PPBv	#	100
16) FREON 113	7.24	101	7099391	113.01	PPBv	#	100
17) CARBON DISULFIDE	7.30	76	9116737	112.55	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	7.96	96	5240432	94.97	PPBv	#	100
19) 1,1-DICHLOROETHANE	8.18	63	9578480	89.00	PPBv	#	100
20) MTBE	8.25	73	13826577	92.93	PPBv	#	100
21) IPA	6.28	45	4740019	113.53	PPBv	#	100
22) 2-BUTANONE(MEK)	8.62	72	2662931	95.98	PPBv	#	100
23) CIS-1,2-DICHLOROETHENE	9.10	96	5595109	94.50	PPBv	#	100
24) HEXANE	9.32	57	8580959	91.81	PPBv	#	100
25) ETHYL ACETATE	9.35	61	1873269	99.29	PPBv	#	100
26) CHLOROFORM	9.43	83	11189309	93.42	PPBv	#	100
27) TETRAHYDROFURAN	9.90	71	2303710	96.28	PPBv	#	100
28) 1,2-DICHLOROETHANE	10.27	62	7142406	92.25	PPBv	#	100
29) 1,1,1-TRICHLOROETHANE	10.56	97	11834688	99.16	PPBv	#	100
30) BENZENE	11.10	78	16488039	91.01	PPBv		100
31) CARBON TETRACHLORIDE	11.27	119	11441000	109.02	PPBv	#	100
32) CYCLOHEXANE	11.42	56	9082589m	91.05	PPBv		
34) 1,2-DICHLOROPROPANE	12.08	63	6247438	92.85	PPBv	#	100
35) BROMODICHLOROMETHANE	12.32	83	12305379	105.45	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Data File : G:\FEB2011\AIR2\021511\B36432.D Vial: 2
Acq On : 15 Feb 2011 8:03 pm Operator: KG
Sample : 100ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:30 2011 Quant Results File: T2010711H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2010711H.M (Chemstation Integrator)
Title :
Last Update : Tue Jan 11 09:04:51 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

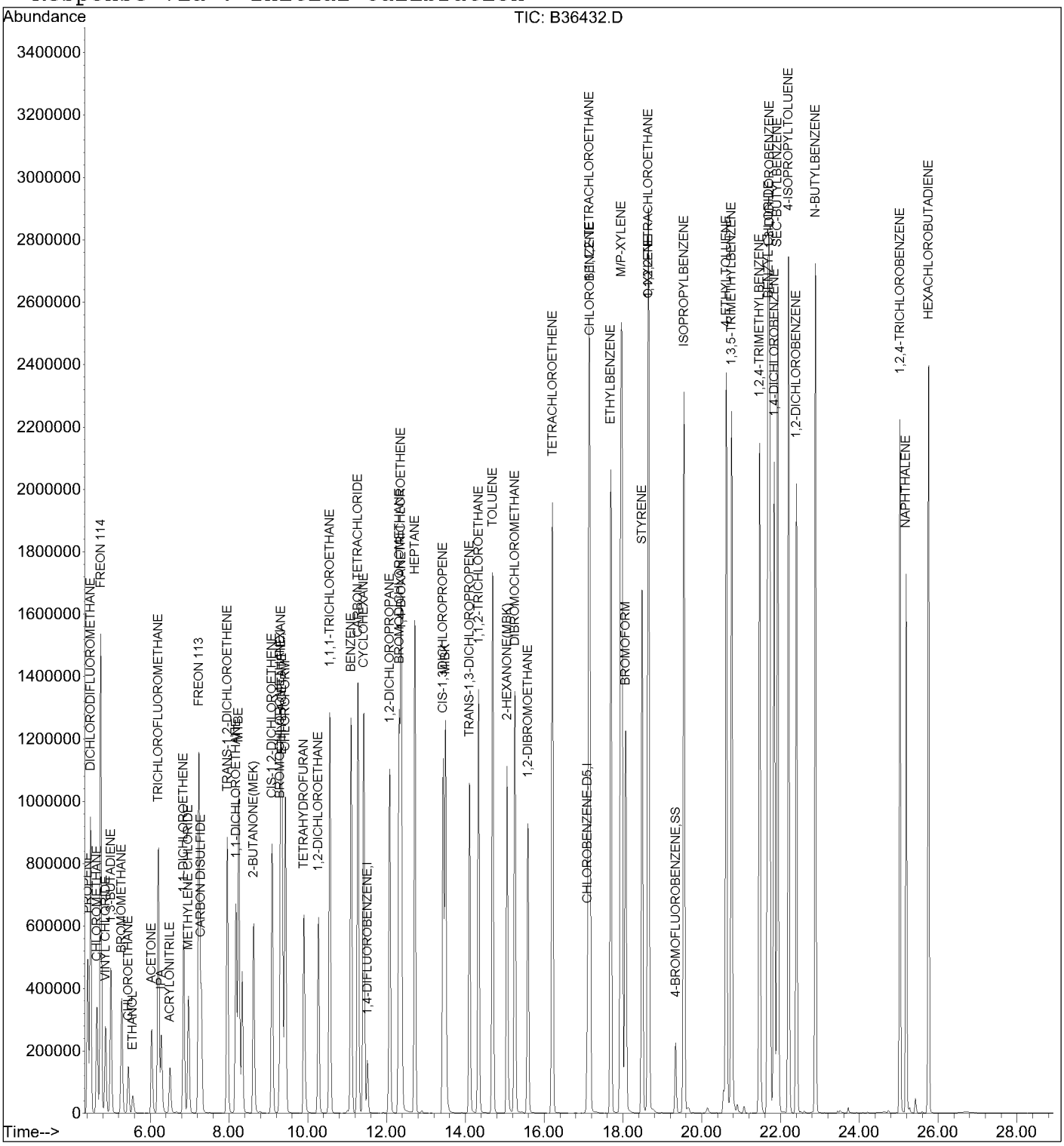
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	TRICHLOROETHENE	12.37	95	7205660	97.45	PPBv	#	100
37)	1,4-DIOXANE	12.38	88	3038561m	103.75	PPBv		
38)	HEPTANE	12.72	57	5435760	94.69	PPBv	#	100
39)	MIBK	13.50	43	13723134	100.93	PPBv	#	100
40)	CIS-1,3DICHLOROPROPENE	13.44	75	9732309	103.06	PPBv	#	100
41)	TRANS-1,3-DICHLOROPROPENE	14.11	75	8882720	109.37	PPBv	#	100
42)	1,1,2-TRICHLOROETHANE	14.33	83	5887679	99.28	PPBv	#	100
43)	TOLUENE	14.69	91	19960367	98.28	PPBv	#	100
44)	2-HEXANONE(MBK)	15.06	58	6666104	115.99	PPBv	#	100
45)	DIBROMOCHLOROMETHANE	15.26	129	11916858	116.44	PPBv	#	100
46)	1,2-DIBROMOETHANE	15.59	107	10323239	103.56	PPBv	#	100
47)	TETRACHLOROETHENE	16.21	166	8979839	99.26	PPBv	#	100
49)	CHLOROBENZENE	17.16	112	13965181	70.00	PPBv		100
50)	1,1,1,2-TETRACHLOROETHANE	17.13	131	7966726	74.95	PPBv	#	100
51)	ETHYLBENZENE	17.69	91	24911202	75.66	PPBv	#	100
52)	M/P-XYLENE	17.97	106	18051043	145.09	PPBv		98
53)	BROMOFORM	18.07	173	10690810	97.89	PPBv		98
54)	STYRENE	18.49	104	13786705	80.59	PPBv	#	100
55)	O-XYLENE	18.65	106	8344571	69.96	PPBv		99
56)	1,1,2,2-TETRACHLOROETHANE	18.64	83	11180903	66.16	PPBv	#	100
58)	ISOPROPYLBENZENE	19.55	105	25559987	70.08	PPBv	#	100
59)	4-ETHYLTOLUENE	20.62	105	26947934m	79.46	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	20.76	105	21871309m	72.16	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.47	105	21588808	78.28	PPBv		98
62)	1,3-DICHLOROBENZENE	21.72	146	13249030	72.11	PPBv		100
63)	BENZYL CHLORIDE	21.70	91	15856431	87.54	PPBv		99
64)	1,4-DICHLOROBENZENE	21.84	146	14485717	75.05	PPBv	#	71
65)	SEC-BUTYLBENZENE	21.93	105	30025071	68.18	PPBv		99
66)	4-ISOPROPYLTOLUENE	22.20	119	24719856	70.05	PPBv		99
67)	1,2-DICHLOROBENZENE	22.41	146	13469887	77.72	PPBv		99
68)	N-BUTYLBENZENE	22.89	91	23147217	73.08	PPBv		99
69)	1,2,4-TRICHLOROBENZENE	25.03	180	9611945	97.24	PPBv		99
70)	NAPHTHALENE	25.19	128	18555548	77.66	PPBv		100
71)	HEXACHLOROBUTADIENE	25.76	225	7536404	83.04	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\FEB2011\AIR2\021511\B36432.D Vial: 2
Acq On : 15 Feb 2011 8:03 pm Operator: KG
Sample : 100ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 8:30 2011 Quant Results File: T2010711H.RE

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



FORM VI - INITIAL CALIBRATION DATA

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103003	Instrument:	Air1
Matrix:	Air	Calibration Date:	02/24/11 11:19
File ID:	T1022411		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Propene	0.5	0.7090797	2	0.4608138	5	0.4527739	10	0.4629737	20	0.4709784	25	0.6389677
Dichlorodifluoromethane (Freon12	0.5	2.008772	2	2.412998	5	2.316359	10	2.306917	20	2.27331	25	3.348099
Chloromethane	0.5	0.74027	2	0.8846219	5	0.665391	10	0.6695813	20	0.6971903	25	1.26041
1,2-Dichlorotetrafluoroethane (Fre	0.5	1.972049	2	2.262033	5	1.920562	10	1.917912	20	1.941709	25	3.124789
Vinyl chloride	0.5	0.5899309	2	0.7207167	5	0.5903208	10	0.6042305	20	0.62751	25	1.081888
1,3-Butadiene	0.5	0.4850944	2	0.4866756	5	0.4060758	10	0.4175557	20	0.4375286	25	0.7755855
Bromomethane	0.5	0.499567	2	0.5981041	5	0.5033691	10	0.5121538	20	0.5186695	25	0.8750359
Chloroethane	0.5	0.2524094	2	0.3292158	5	0.2867733	10	0.2892626	20	0.3449736	25	0.496313
Acetone	0.5	0.3392052	2	0.2707457	5	0.2497477	10	0.2593202	20	0.2749583	25	0.3588835
Trichlorofluoromethane (Freon 11)	0.5	1.674097	2	1.886224	5	1.833673	10	1.81366	20	1.81877	25	2.51416
Ethanol	0.5	0.5878061	2	0.2306679	5	0.1931553	10	0.2018977	20	0.2427631	25	0.2113038
1,1-Dichloroethene	0.5	0.3885165	2	0.4990643	5	0.7881433	10	0.810639	20	0.5321648	25	0.7288029
Acrylonitrile	0.5	0.1601613	2	0.2289512	5	0.2687427	10	0.2816348	20	0.2939884	25	0.4184732
Methylene chloride	0.5	0.4117289	2	0.4577818	5	0.7753476	10	0.7766301	20	0.7484744	25	0.652554
1,1,2-Trichlorotrifluoroethane (Fre	0.5	1.002301	2	1.210725	5	1.893341	10	1.870652	20	1.867706	25	1.6545
Carbon disulfide	0.5	1.225004	2	1.611382	5	2.471691	10	2.514181	20	2.570029	25	2.145916
trans-1,2-Dichloroethene	0.5	0.6965715	2	0.783022	5	0.8445023	10	0.8723483	20	0.891169	25	1.220609
1,1-Dichloroethane	0.5	1.328036	2	1.579095	5	1.615397	10	1.63097	20	1.646502	25	2.264017
Methyl tert-butyl ether	0.5	1.733511	2	1.932486	5	2.114923	10	2.246988	20	2.357382	25	3.279265
Isopropyl alcohol	0.5	0.8208518	2	0.8229692	5	0.8060571	10	0.8166834	20	0.8415343	25	1.070396
2-Butanone (MEK)	0.5	0.3214452	2	0.3737712	5	0.4193148	10	0.4503029	20	0.4673588	25	0.6277794
cis-1,2-Dichloroethene	0.5	0.6955291	2	0.8027998	5	0.8590441	10	0.9023959	20	0.926868	25	1.280297
Hexane	0.5	1.10373	2	1.278101	5	1.3841	10	1.415432	20	1.437447	25	1.970114
Ethyl acetate	0.5	0.1477734	2	0.2491205	5	0.2745766	10	0.2990461	20	0.3101733	25	0.4166312
Chloroform	0.5	1.514336	2	1.815426	5	1.87106	10	1.868971	20	1.876983	25	2.571338
Tetrahydrofuran	0.5	0.1859796	2	0.2809257	5	0.335556	10	0.3682664	20	0.3904667	25	0.5277598
1,2-Dichloroethane	0.5	1.00174	2	1.192273	5	1.260426	10	1.237783	20	1.273452	25	1.748785
1,1,1-Trichloroethane	0.5	1.47148	2	1.608381	5	1.698786	10	1.765003	20	1.836475	25	2.564975
Benzene	0.5	2.267836	2	2.470815	5	2.644113	10	2.72395	20	2.789126	25	3.84935
Carbon tetrachloride	0.5	1.257557	2	1.262188	5	1.434738	10	1.538751	20	1.670557	25	2.36856
Cyclohexane	0.5	1.06364	2	1.284315	5	1.443815	10	1.351353	20	1.532467	25	2.13015
1,2-Dichloropropane	0.5	0.1633669	2	0.1902455	5	0.2069446	10	0.2076948	20	0.2130142	25	0.2888787

FORM VI - INITIAL CALIBRATION DATA

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103003	Instrument:	Air1
Matrix:	Air	Calibration Date:	02/24/11 11:19
File ID:	T1022411		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromodichloromethane	0.5	0.3038243	2	0.3314456	5	0.3685821	10	0.3805	20	0.3972123	25	0.5386257
Trichloroethene	0.5	0.1934059	2	0.2203429	5	0.2452534	10	0.2524406	20	0.2531507	25	0.3327922
1,4-Dioxane	0.5	8.037934E-02	2	8.406833E-02	5	0.1036486	10	0.1130558	20	0.1218392	25	0.1386559
n-Heptane	0.5	0.1617316	2	0.1575458	5	0.1800418	10	0.1886263	20	0.1918792	25	0.2553582
4-Methyl-2-pentanone (MIBK)	0.5	0.4465137	2	0.3036551	5	0.3790295	10	0.3847932	20	0.4280257	25	0.5595716
cis-1,3-Dichloropropene	0.5	0.2191688	2	0.2044087	5	0.2623568	10	0.2788368	20	0.3067109	25	0.4203537
trans-1,3-Dichloropropene	0.5	0.1714694	2	0.1296657	5	0.2137427	10	0.2318557	20	0.281249	25	0.3691251
1,1,2-Trichloroethane	0.5	0.1606606	2	0.177951	5	0.1951463	10	0.1948334	20	0.2027061	25	0.2587555
Toluene	0.5	0.5260264	2	0.5210492	5	0.6257637	10	0.6605513	20	0.6961852	25	0.9026081
2-Hexanone (MBK)	0.5	0.1415203	2	6.658542E-02	5	0.1437166	10	0.1699561	20	0.2112155	25	0.2718242
Dibromochloromethane	0.5	0.2544978	2	0.2680698	5	0.3225585	10	0.3444615	20	0.3655438	25	0.4794747
1,2-Dibromoethane (EDB)	0.5	0.2562311	2	0.2759075	5	0.3311086	10	0.328208	20	0.3539179	25	0.4362873
Tetrachloroethene	0.5	0.2659525	2	0.2976577	5	0.3276579	10	0.330108	20	0.3347677	25	0.4170915
Chlorobenzene	0.5	0.8595394	2	1.032526	5	1.05676	10	1.037939	20	1.0202	25	1.260504
Ethylbenzene	0.5	1.353601	2	1.460152	5	1.698874	10	1.755459	20	1.7637	25	2.203506
1,1,1,2-Tetrachloroethane	0.5	8.088454E-02	2	0.1092985	5	0.127074	10	0.1303789	20	0.1322397	25	0.1956847
m,p-Xylene	1	0.5174533	4	0.6186338	10	0.7089813	20	0.7096818	40	0.7096867	50	0.8638499
Bromoform	0.5	0.4404878	2	0.4568911	5	0.5429798	10	0.5938477	20	0.6709439	25	0.7817932
Styrene	0.5	0.6443109	2	0.6603627	5	0.8581813	10	0.9284049	20	0.9781661	25	1.183196
o-Xylene	0.5	0.4928344	2	0.6272439	5	0.6979166	10	0.6880255	20	0.6945358	25	0.8212394
1,1,2,2-Tetrachloroethane	0.5	0.7624878	2	0.8884429	5	0.9324419	10	0.9277971	20	0.9404131	25	1.064131
1,3,5-Trimethylbenzene	0.5	1.215723	2	1.592198	5	1.796741	10	1.281599	20	1.773845	25	1.927814
4-Ethyltoluene	0.5	1.449	2	1.616836	5	1.998118	10	2.002641	20	2.126476	25	2.390403
1,2,4-Trimethylbenzene	0.5	1.157501	2	1.338935	5	1.602909	10	1.659167	20	1.684679	25	1.826603
Isopropylbenzene	0.5	1.318911	2	1.562605	5	1.749468	10	1.773865	20	1.781229	25	2.438015
1,3-Dichlorobenzene	0.5	0.7304318	2	0.8638597	5	0.985346	10	0.9638132	20	1.013816	25	1.058465
Benzyl chloride	0.5	0.56737	2	0.3812043	5	0.5261851	10	0.6673877	20	0.8397891	25	~~0.9501906~~
1,4-Dichlorobenzene	0.5	0.7144774	2	0.9001948	5	1.005654	10	0.9291	20	1.026627	25	1.072805
Naphthalene	0.5	0.6176221	2	0.5306405	5	0.8148422	10	0.9122489	20	0.9936974	25	1.102996
1,2-Dichlorobenzene	0.5	0.6740597	2	0.8114474	5	0.8646497	10	0.8834117	20	0.9042236	25	0.9518541
1,2,4-Trichlorobenzene	0.5	0.2504917	2	0.2567548	5	0.3594964	10	0.4004858	20	0.4237697	25	0.5587344
Hexachlorobutadiene	0.5	0.4247134	2	0.4884209	5	0.5336983	10	0.5412081	20	0.5269934	25	0.6407192

FORM VI - INITIAL CALIBRATION DATA

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103003	Instrument:	Air1
Matrix:	Air	Calibration Date:	02/24/11 11:19
File ID:	T1022411		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
sec-Butylbenzene	0.5	1.635412	2	2.02024	5	2.26161	10	2.271889	20	2.253472	25	2.799841
4-Isopropyltoluene	0.5	1.304789	2	1.576881	5	1.823016	10	1.857247	20	1.864208	25	2.216621
n-Butylbenzene	0.5	1.253473	2	1.362881	5	1.574832	10	1.634841	20	1.676785	25	1.961295
4-Bromofluorobenzene	10	1.151931	10	1.148773	10	1.162977	10	1.145069	10	1.129368	10	1.141765

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103003	Instrument:	Air1
Matrix:	Air	Calibration Date:	02/24/11 11:19
File ID:	T1022411		

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Propene	50	0.6529399	100	0.6584882								
Dichlorodifluoromethane (Freon12	50	3.360829	100	3.163304								
Chloromethane	50	1.278132	100	1.186648								
1,2-Dichlorotetrafluoroethane (Fre	50	3.105603	100	2.741097								
Vinyl chloride	50	1.120117	100	1.016498								
1,3-Butadiene	50	0.7964406	100	0.6954062								
Bromomethane	50	0.8883947	100	0.7968096								
Chloroethane	50	0.5187035	100	0.4540858								
Acetone	50	0.3850834	100	0.3602289								
Trichlorofluoromethane (Freon 11)	50	2.498612	100	2.435869								
Ethanol	50	0.2384837	100	0.2126127								
1,1-Dichloroethene	50	0.7632673	100	0.767795								
Acrylonitrile	50	0.4547417	100	0.4637529								
Methylene chloride	50	0.6815356	100	0.6805489								
1,1,2-Trichlorotrifluoroethane (Fre	50	1.667849	100	2.229482								
Carbon disulfide	50	2.372346	100	3.648062								
trans-1,2-Dichloroethene	50	1.262698	100	1.271609								
1,1-Dichloroethane	50	2.290536	100	2.269835								
Methyl tert-butyl ether	50	3.434311	100	3.494603								
Isopropyl alcohol	50	1.144517	100	1.14137								
2-Butanone (MEK)	50	0.6602156	100	0.6797146								
cis-1,2-Dichloroethene	50	1.315104	100	1.328557								
Hexane	50	1.960416	100	1.798501								
Ethyl acetate	50	0.426039	100	0.3969134								
Chloroform	50	2.615667	100	2.619921								
Tetrahydrofuran	50	0.5488712	100	0.5680895								
1,2-Dichloroethane	50	1.778134	100	1.79043								
1,1,1-Trichloroethane	50	2.65983	100	2.692845								
Benzene	50	3.921867	100	3.923306								
Carbon tetrachloride	50	2.480951	100	2.4795								
Cyclohexane	50	2.169075	100	2.12282								
1,2-Dichloropropane	50	0.2895434	100	0.2765682								

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103003	Instrument:	Air1
Matrix:	Air	Calibration Date:	02/24/11 11:19
File ID:	T1022411		

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromodichloromethane	50	0.5435746	100	0.520336								
Trichloroethene	50	0.3283469	100	0.3000751								
1,4-Dioxane	50	0.1424601	100	0.1370309								
n-Heptane	50	0.2521682	100	0.2310333								
4-Methyl-2-pentanone (MIBK)	50	0.5611792	100	0.5091549								
cis-1,3-Dichloropropene	50	0.4346903	100	0.4298832								
trans-1,3-Dichloropropene	50	0.3967943	100	0.4121662								
1,1,2-Trichloroethane	50	0.2625356	100	0.2531929								
Toluene	50	0.9142091	100	0.8708174								
2-Hexanone (MBK)	50	0.2935092	100	0.2919022								
Dibromochloromethane	50	0.4910771	100	0.468315								
1,2-Dibromoethane (EDB)	50	0.4494841	100	0.435244								
Tetrachloroethene	50	0.4137797	100	0.3762754								
Chlorobenzene	50	1.084576	100	0.9387629								
Ethylbenzene	50	1.947732	100	1.763147								
1,1,1,2-Tetrachloroethane	50	0.1679812	100	0.1466735								
m,p-Xylene	100	0.7390369	200	0.6302744								
Bromoform	50	0.7309215	100	0.7001352								
Styrene	50	1.060515	100	0.9933307								
o-Xylene	50	0.6974158	100	0.5880128								
1,1,2,2-Tetrachloroethane	50	0.9098415	100	0.7563587								
1,3,5-Trimethylbenzene	50	1.663246	100	1.497197								
4-Ethyltoluene	50	2.086932	100	1.880739								
1,2,4-Trimethylbenzene	50	1.589075	100	1.455855								
Isopropylbenzene	50	2.107522	100	1.863166								
1,3-Dichlorobenzene	50	0.9046215	100	0.7784193								
Benzyl chloride	50	~~0.9544053~~	100	~~1.015359~~								
1,4-Dichlorobenzene	50	0.9302072	100	0.8336791								
Naphthalene	50	1.070406	100	1.122453								
1,2-Dichlorobenzene	50	0.8303365	100	0.7564232								
1,2,4-Trichlorobenzene	50	0.5291213	100	0.5460077								
Hexachlorobutadiene	50	0.5672325	100	0.560633								

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103003	Instrument:	Air1
Matrix:	Air	Calibration Date:	02/24/11 11:19
File ID:	T1022411		

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
sec-Butylbenzene	50	2.362221	100	2.029447								
4-Isopropyltoluene	50	1.870196	100	1.605416								
n-Butylbenzene	50	1.714805	100	1.51895								
4-Bromofluorobenzene	10	1.023605	10	1.02024								

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103003	Instrument:	Air1
Matrix:	Air	Calibration Date:	02/24/11 11:19
File ID:	T1022411		

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Propene	0.5633769	19.6035	4.87125	0.3374137			30	
Dichlorodifluoromethane (Freon12)	2.648823	20.65014	4.9475	0.2360129			30	
Chloromethane	0.9227806	29.70356	5.11875	0.2432068			30	
1,2-Dichlorotetrafluoroethane (Freon 114)	2.373219	22.56968	5.225	0.250143			30	
Vinyl chloride	0.7939015	29.76837	5.3575	0.2776714			30	
1,3-Butadiene	0.5625453	29.3355	5.49875	0.2262331			30	
Bromomethane	0.649013	26.82004	5.78875	0.2347693			30	
Chloroethane	0.3714671	27.80625	5.9625	0.2486582			30	
Acetone	0.3122716	17.25758	6.57125	0.2979442			30	
Trichlorofluoromethane (Freon 11)	2.059383	17.30604	6.75	0.250183			30	
Ethanol	0.2648363	49.71591	6.0725	0.3601754	0.9957846		0.991	
1,1-Dichloroethene	0.6597991	24.4436	7.41125	0.2328331			30	
Acrylonitrile	0.3213058	34.72046	7.05125	0.3338976	0.9956191		0.991	
Methylene chloride	0.6480752	21.59219	7.53	0.2562447			30	
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.674569	23.66264	7.80125	0.2505756			30	
Carbon disulfide	2.319826	31.00421	7.86875	0.2754891			30	*
trans-1,2-Dichloroethene	0.9803161	23.76141	8.53	0.2587718			30	
1,1-Dichloroethane	1.828048	20.96483	8.74625	0.2278123			30	
Methyl tert-butyl ether	2.574184	27.73323	8.805	0.2262198			30	
Isopropyl alcohol	0.9330473	16.68881	6.81375	0.3411958			30	
2-Butanone (MEK)	0.4999878	27.48104	9.175	0.2403801			30	
cis-1,2-Dichloroethene	1.013824	25.02589	9.66375	0.2210976			30	
Hexane	1.54348	21.03295	9.89	0.2233468			30	
Ethyl acetate	0.3150342	30.25317	9.89875	0.2126198	0.9958739		0.991	
Chloroform	2.094213	20.87365	9.99375	0.2133325			30	
Tetrahydrofuran	0.4007394	34.26299	10.4625	0.2433098	0.9969001		0.991	
1,2-Dichloroethane	1.410378	22.09531	10.83375	0.2311016			30	
1,1,1-Trichloroethane	2.037222	25.09051	11.12875	0.2175725			30	
Benzene	3.073795	22.81822	11.6675	0.203741			30	
Carbon tetrachloride	1.8116	29.8685	11.8425	0.2009867			30	
Cyclohexane	1.637204	26.77666	11.99	0.1837073			30	
1,2-Dichloropropane	0.229532	21.16277	12.6375	0.187883			30	
Bromodichloromethane	0.4230126	22.84992	12.87125	0.2020043			30	

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103003	Instrument:	Air1
Matrix:	Air	Calibration Date:	02/24/11 11:19
File ID:	T1022411		

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Trichloroethene	0.265726	18.89293	12.92125	0.2003582			30	
1,4-Dioxane	0.1151423	21.10482	12.93	0.2339724			30	
n-Heptane	0.2022981	19.20622	13.27125	0.1951653			30	
4-Methyl-2-pentanone (MIBK)	0.4464904	20.55642	14.02375	0.1744351			30	
cis-1,3-Dichloropropene	0.3195511	29.92724	13.98375	0.1985247			30	
trans-1,3-Dichloropropene	0.2757585	38.76669	14.6475	0.187976	0.9967044		0.991	
1,1,2-Trichloroethane	0.2132227	18.49404	14.875	0.1722419			30	
Toluene	0.7146513	22.67215	15.24125	0.1693456			30	
2-Hexanone (MBK)	0.1987787	41.55071	15.5825	0.2272622	0.9971383		0.991	
Dibromochloromethane	0.3742498	25.31249	15.80125	0.1636686			30	
1,2-Dibromoethane (EDB)	0.3582986	20.8824	16.1325	0.1671339			30	
Tetrachloroethene	0.3454113	15.48333	16.755	0.149189			30	
Chlorobenzene	1.036351	11.18472	17.69625	0.145065			30	
Ethylbenzene	1.743271	15.15449	18.2275	0.146882			30	
1,1,1,2-Tetrachloroethane	0.1362769	25.6822	17.6675	0.14932			30	
m,p-Xylene	0.6871998	14.7719	18.48875	0.1375956			30	
Bromoform	0.61475	20.64226	18.59875	0.1479191			30	
Styrene	0.9133085	20.47268	19.0175	0.1401585			30	
o-Xylene	0.663403	14.51661	19.1775	0.1394522			30	
1,1,2,2-Tetrachloroethane	0.8977392	11.14938	19.1625	0.1381398			30	
1,3,5-Trimethylbenzene	1.593545	15.72831	21.2775	0.1247426			30	
4-Ethyltoluene	1.943893	15.25349	21.14625	0.1218787			30	
1,2,4-Trimethylbenzene	1.539341	13.83418	21.9675	0.1217608			30	
Isopropylbenzene	1.824348	18.44084	20.07625	0.126253			30	
1,3-Dichlorobenzene	0.9123466	12.63814	22.21125	0.1165477			30	
Benzyl chloride	0.5963872	28.59847	22.19	0.1268602			30	
1,4-Dichlorobenzene	0.9265931	12.37094	22.31875	0.1112789			30	
Naphthalene	0.8956133	25.03534	25.625	8.715394E-02			30	
1,2-Dichlorobenzene	0.8345507	10.55554	22.86	0.0961781			30	
1,2,4-Trichlorobenzene	0.4156077	29.65288	25.4575	9.360191E-02			30	
Hexachlorobutadiene	0.5354523	11.66474	26.20125	6.202313E-02			30	
sec-Butylbenzene	2.204267	15.124	22.40125	0.1027956			30	
4-Isopropyltoluene	1.764797	15.28564	22.65875	9.200217E-02			30	

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103003	Instrument:	Air1
Matrix:	Air	Calibration Date:	02/24/11 11:19
File ID:	T1022411		

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
n-Butylbenzene	1.587233	13.74204	23.3175	9.798074E-02			30	
4-Bromofluorobenzene	1.115466	5.24533	19.865	0.1391945			30	

Individual peaks for multi-component analytes are indicated by a number in parentheses

Response Factor Report GCMS Air

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration

Calibration Files
0.5 =A39470.D 2 =A39457.D 5 =A39458.D
10 =A39459.D 20 =A39460.D 25 =A39462.D

		Compound	0.5	2	5	10	20	25	Avg	%RSD
1)	I	BROMOCHLOROMETHANE	ISTD							
2)		PROPENE	0.709	0.461	0.453	0.463	0.471	0.639	0.563	19.60
3)		DICHLORODIFLUOROMET	2.009	2.413	2.316	2.307	2.273	3.348	2.649	20.65
4)		CHLOROMETHANE	0.740	0.885	0.665	0.670	0.697	1.260	0.923	29.70
5)		FREON 114	1.972	2.262	1.921	1.919	1.942	3.125	2.373	22.56
6)		VINYL CHLORIDE	0.590	0.721	0.590	0.604	0.628	1.082	0.794	29.77
7)		1,3-BUTADIENE	0.485	0.487	0.406	0.418	0.438	0.776	0.563	29.34
8)		BROMOMETHANE	0.500	0.598	0.503	0.512	0.519	0.875	0.649	26.82
9)		CHLOROETHANE	0.252	0.329	0.287	0.289	0.345	0.496	0.371	27.81
10)		ACETONE	0.339	0.271	0.250	0.259	0.275	0.359	0.312	17.26
11)		TRICHLOROFLUOROMETH	1.674	1.886	1.834	1.814	1.819	2.514	2.059	17.31
12)		ETHANOL	0.588	0.231	0.193	0.202	0.243	0.211	0.265	LR=0.993
13)		ACRYLONITRILE	0.160	0.229	0.269	0.282	0.294	0.418	0.321	LR=0.996
14)		1,1-DICHLOROETHENE	0.389	0.499	0.788	0.811	0.532	0.729	0.660	24.44
15)		METHYLENE CHLORIDE	0.412	0.458	0.775	0.777	0.748	0.653	0.648	21.59
16)		FREON 113	1.002	1.211	1.893	1.871	1.868	1.655	1.675	23.66
17)		CARBON DISULFIDE	1.225	1.611	2.472	2.515	2.570	2.146	2.320	31.00
18)		TRANS-1,2-DICHLOROE	0.697	0.783	0.845	0.872	0.891	1.221	0.980	23.76
19)		1,1-DICHLOROETHANE	1.328	1.579	1.615	1.631	1.647	2.264	1.828	20.96
20)		MTBE	1.733	1.932	2.115	2.247	2.357	3.279	2.574	27.73
21)		IPA	0.821	0.823	0.806	0.817	0.842	1.070	0.933	16.69
22)		2-BUTANONE(MEK)	0.321	0.374	0.419	0.450	0.467	0.628	0.500	27.48
23)		CIS-1,2-DICHLOROETH	0.696	0.803	0.859	0.902	0.927	1.280	1.014	25.03
24)		HEXANE	1.104	1.278	1.384	1.415	1.437	1.970	1.543	21.03
25)		ETHYL ACETATE	0.148	0.249	0.275	0.299	0.310	0.417	0.315	LR=0.990
27)		TETRAHYDROFURAN	0.186	0.281	0.336	0.368	0.390	0.528	0.401	LR=0.997
28)		1,2-DICHLOROETHANE	1.002	1.192	1.260	1.238	1.273	1.749	1.410	22.10
29)		1,1,1-TRICHLOROETHA	1.471	1.608	1.699	1.765	1.836	2.565	2.037	25.09
30)		BENZENE	2.268	2.471	2.644	2.724	2.789	3.849	3.074	22.82
31)		CARBON TETRACHLORID	1.258	1.262	1.435	1.539	1.671	2.369	1.812	29.87
32)		CYCLOHEXANE	1.064	1.284	1.444	1.521	1.532	2.130	1.658	25.72
33)	I	1,4-DIFLUOROBENZENE	ISTD							
34)		1,2-DICHLOROPROPANE	0.163	0.190	0.207	0.208	0.213	0.289	0.230	21.17
35)		BROMODICHLOROMETHAN	0.304	0.331	0.369	0.380	0.397	0.539	0.423	22.85
36)		1,4-DIOXANE	0.080	0.084	0.104	0.113	0.122	0.139	0.115	21.12
37)		TRICHLOROETHENE	0.193	0.220	0.245	0.252	0.253	0.333	0.266	18.90
38)		HEPTANE	0.162	0.158	0.180	0.189	0.192	0.255	0.202	19.21
39)		MIBK	0.447	0.304	0.379	0.413	0.428	0.560	0.450	19.92
40)		CIS-1,3DICHLOROPROP	0.219	0.204	0.262	0.279	0.307	0.420	0.320	29.93
41)		TRANS-1,3-DICHLOROP	0.171	0.130	0.214	0.252	0.281	0.369	0.278	LR=0.997
42)		1,1,2-TRICHLOROETHA	0.161	0.178	0.195	0.201	0.203	0.259	0.214	18.28
43)		TOLUENE	0.526	0.521	0.626	0.660	0.696	0.903	0.715	22.68
44)		2-HEXANONE(MBK)	0.142	0.067	0.144	0.185	0.211	0.272	0.201	LR=0.997
45)		DIBROMOCHLOROMETHAN	0.254	0.268	0.323	0.344	0.366	0.479	0.374	25.32
46)		1,2-DIBROMOETHANE	0.256	0.276	0.331	0.348	0.354	0.436	0.361	20.52
47)		TETRACHLOROETHENE	0.266	0.298	0.328	0.330	0.335	0.417	0.345	15.49
48)	I	CHLOROBENZENE-D5	ISTD							

49)		1,1,1,2-TETRACHLORO	0.081	0.109	0.127	0.130	0.132	0.196	0.136	25.68
50)		CHLOROBENZENE	0.860	1.033	1.057	1.038	1.020	1.261	1.036	11.18
51)		ETHYLBENZENE	1.354	1.460	1.699	1.756	1.764	2.204	1.743	15.15
52)		M/P-XYLENE	0.517	0.619	0.709	0.710	0.710	0.864	0.687	14.77
53)		BROMOFORM	0.440	0.457	0.543	0.594	0.671	0.782	0.615	20.64
54)		STYRENE	0.644	0.660	0.858	0.954	0.978	1.183	0.917	20.46
55)		O-XYLENE	0.493	0.627	0.698	0.688	0.695	0.821	0.663	14.52
56)		1,1,2,2-TETRACHLORO	0.762	0.888	0.932	0.928	0.940	1.064	0.898	11.15
57)	SS	4-BROMOFLUOROBENZEN	1.152	1.149	1.163	1.146	1.129	1.142	1.116	5.25
58)		ISOPROPYLBENZENE	1.319	1.563	1.749	1.775	1.781	2.438	1.824	18.44
59)		4-ETHYLTOLUENE	1.449	1.617	1.998	2.090	2.126	2.390	1.955	15.38
60)		1,3,5-TRIMETHYLBENZ	1.216	1.592	1.797	1.794	1.774	1.928	1.658	13.49
61)		1,2,4-TRIMETHYLBENZ	1.157	1.339	1.603	1.660	1.685	1.827	1.539	13.84
62)		1,3-DICHLOROBENZENE	0.730	0.864	0.985	1.007	1.014	1.058	0.918	12.97
63)		BENZYL CHLORIDE	0.567	0.381	0.526	0.687	0.840		0.600	28.79
64)		1,4-DICHLOROBENZENE	0.714	0.900	1.006	0.969	1.027	1.073	0.932	12.41
65)		SEC-BUTYLBENZENE	1.635	2.020	2.262	2.273	2.253	2.800	2.204	15.12
66)		4-ISOPROPYLTOLUENE	1.305	1.577	1.823	1.858	1.864	2.217	1.765	15.29
67)		1,2-DICHLOROBENZENE	0.674	0.811	0.865	0.884	0.904	0.952	0.835	10.56
68)		BUTYLBENZENE	1.253	1.363	1.575	1.636	1.677	1.961	1.587	13.74
69)		1,2,4-TRICHLOROBENZ	0.250	0.257	0.359	0.401	0.424	0.559	0.416	29.65
70)		NAPHTHALENE	0.618	0.531	0.815	0.963	0.994	1.103	0.902	25.00
71)		HEXACHLOROBUTADIENE	0.425	0.488	0.534	0.541	0.527	0.641	0.535	11.66

(#) = Out of Range ### Number of calibration levels exceeded format ###

T1022411.M Wed Mar 09 12:06:44 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022411\A39457.D Vial: 2
Acq On : 24 Feb 2011 3:58 pm Operator: KG
Sample : 2ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:16 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.87	128	498032	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	12.08	114	2453540	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.65	82	1176823	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.88	95	1351903	10.39	PPBv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.90%				
Target Compounds							Qvalue
2) PROPENE	4.88	42	45900	1.44	PPBv		96
3) DICHLORODIFLUOROMETHANE	4.96	85	240350	1.67	PPBv	#	94
4) CHLOROMETHANE	5.13	50	88114	1.93	PPBv	#	43
5) FREON 114	5.23	85	225313	1.87	PPBv		92
6) VINYL CHLORIDE	5.37	62	71788	1.77	PPBv	#	42
7) 1,3-BUTADIENE	5.51	54	48476	1.69	PPBv		98
8) BROMOMETHANE	5.80	94	59575	1.71	PPBv	#	93
9) CHLOROETHANE	5.98	64	32792	1.65	PPBv	#	44
10) ACETONE	6.60	58	26968m	1.56	PPBv		
11) TRICHLOROFLUOROMETHANE	6.77	101	187880	1.74	PPBv		99
12) ETHANOL	6.11	45	22976	1.59	PPBv	#	43
13) ACRYLONITRILE	7.09	53	22805m	0.96	PPBv		
14) 1,1-DICHLOROETHENE	7.43	96	49710	1.02	PPBv	#	80
15) METHYLENE CHLORIDE	7.55	84	45598	0.94	PPBv	#	62
16) FREON 113	7.82	101	120596	1.06	PPBv		97
17) CARBON DISULFIDE	7.89	76	160504	0.97	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	8.55	96	77994	1.35	PPBv		91
19) 1,1-DICHLOROETHANE	8.76	63	157288	1.50	PPBv	#	90
20) MTBE	8.83	73	192488	1.10	PPBv		94
21) IPA	6.85	45	81973	1.44	PPBv	#	83
22) 2-BUTANONE(MEK)	9.21	72	37230	1.26	PPBv	#	1
23) CIS-1,2-DICHLOROETHENE	9.68	96	79964	1.32	PPBv		88
24) HEXANE	9.91	57	127307	1.38	PPBv		93
25) ETHYL ACETATE	9.93	61	24814m	1.31	PPBv		
26) CHLOROFORM	10.01	83	180828	1.50	PPBv		99
27) TETRAHYDROFURAN	10.50	71	27982m	1.11	PPBv		
28) 1,2-DICHLOROETHANE	10.86	62	118758	1.48	PPBv	#	93
29) 1,1,1-TRICHLOROETHANE	11.15	97	160205	1.27	PPBv		99
30) BENZENE	11.69	78	246109	1.33	PPBv		100
31) CARBON TETRACHLORIDE	11.86	119	125722	1.13	PPBv		99
32) CYCLOHEXANE	12.01	56	127926m	1.27	PPBv		
34) 1,2-DICHLOROPROPANE	12.66	63	93355	1.45	PPBv	#	88
35) BROMODICHLOROMETHANE	12.89	83	162643	1.39	PPBv	#	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022411\A39457.D Vial: 2
Acq On : 24 Feb 2011 3:58 pm Operator: KG
Sample : 2ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:16 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

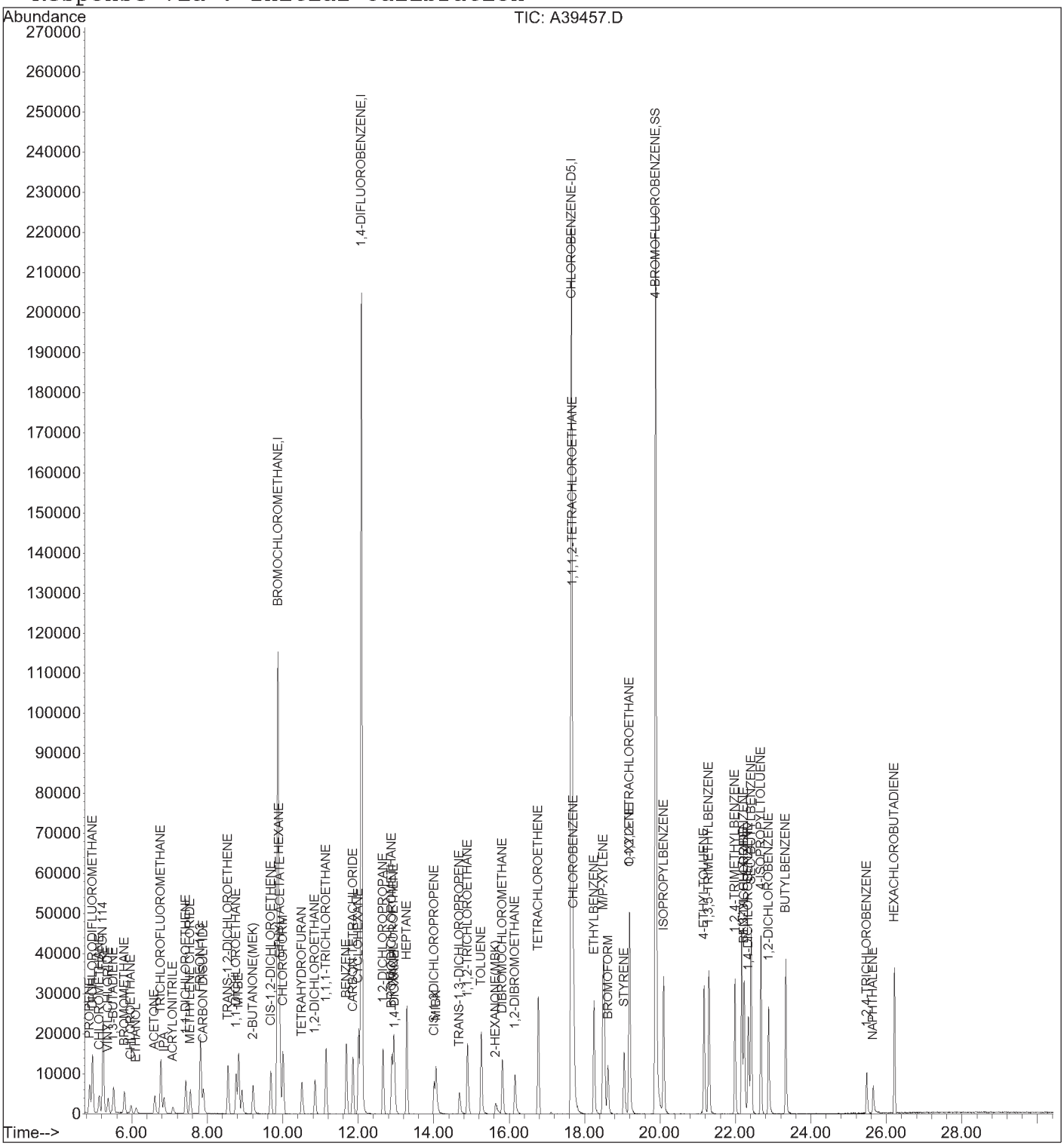
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	1,4-DIOXANE	12.98	88	41253	1.18	PPBv	#	93
37)	TRICHLOROETHENE	12.94	95	108124	1.44	PPBv		100
38)	HEPTANE	13.29	57	77309	1.34	PPBv	#	78
39)	MIBK	14.06	43	149006m	1.23	PPBv		
40)	CIS-1,3DICHLOROPROPENE	14.01	75	100305	1.05	PPBv	#	53
41)	TRANS-1,3-DICHLOROPROPENE	14.68	75	63628	0.74	PPBv	#	52
42)	1,1,2-TRICHLOROETHANE	14.90	83	87322	1.48	PPBv		99
43)	TOLUENE	15.26	91	255683	1.24	PPBv		98
44)	2-HEXANONE(MBK)	15.65	58	32674m	1.11	PPBv		
45)	DIBROMOCHLOROMETHANE	15.82	129	131544	1.27	PPBv		99
46)	1,2-DIBROMOETHANE	16.16	107	135390	1.33	PPBv		98
47)	TETRACHLOROETHENE	16.77	166	146063	1.49	PPBv		98
49)	1,1,1,2-TETRACHLOROETHANE	17.68	135	25725m	1.33	PPBv		
50)	CHLOROBENZENE	17.71	112	243020	1.76	PPBv		96
51)	ETHYLBENZENE	18.25	91	343668	1.42	PPBv		99
52)	M/P-XYLENE	18.51	106	291209	3.11	PPBv		93
53)	BROMOFORM	18.62	173	107536	1.33	PPBv		97
54)	STYRENE	19.04	104	155426m	1.22	PPBv		
55)	O-XYLENE	19.19	106	147631	1.63	PPBv		96
56)	1,1,2,2-TETRACHLOROETHANE	19.18	83	209108	1.79	PPBv	#	95
58)	ISOPROPYLBENZENE	20.09	105	367782	1.46	PPBv	#	100
59)	4-ETHYLTOLUENE	21.16	105	380546m	1.43	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	21.30	105	374747m	1.62	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.99	105	315138	1.47	PPBv		99
62)	1,3-DICHLOROBENZENE	22.23	146	203322m	1.68	PPBv		
63)	BENZYL CHLORIDE	22.21	91	89722	0.66	PPBv	#	56
64)	1,4-DICHLOROBENZENE	22.34	146	211874m	1.66	PPBv		
65)	SEC-BUTYLBENZENE	22.42	105	475493	1.59	PPBv	#	100
66)	4-ISOPROPYLTOLUENE	22.67	119	371142	1.54	PPBv	#	98
67)	1,2-DICHLOROBENZENE	22.88	146	190986	1.69	PPBv		98
68)	BUTYLBENZENE	23.33	91	320774m	1.52	PPBv		
69)	1,2,4-TRICHLOROBENZENE	25.48	180	60431	1.08	PPBv	#	86
70)	NAPHTHALENE	25.65	128	124894m	1.01	PPBv		
71)	HEXACHLOROBUTADIENE	26.21	225	114957	1.62	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\022411\A39457.D Vial: 2
Acq On : 24 Feb 2011 3:58 pm Operator: KG
Sample : 2ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:16 2011 Quant Results File: T1021611.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022411\A39458.D Vial: 2
Acq On : 24 Feb 2011 4:39 pm Operator: KG
Sample : 5ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:17 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.86	128	514239	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	12.08	114	2478335	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.65	82	1213592	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.88	95	1411380	10.52	PPBv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.20%				
Target Compounds							Qvalue
2) PROPENE	4.88	42	116417	3.53	PPBv		97
3) DICHLORODIFLUOROMETHANE	4.95	85	595581	4.01	PPBv		100
4) CHLOROMETHANE	5.12	50	171085m	3.62	PPBv		
5) FREON 114	5.23	85	493814	3.96	PPBv		91
6) VINYL CHLORIDE	5.36	62	151783	3.63	PPBv		97
7) 1,3-BUTADIENE	5.50	54	104410	3.52	PPBv		98
8) BROMOMETHANE	5.79	94	129426	3.60	PPBv	#	93
9) CHLOROETHANE	5.97	64	73735	3.59	PPBv	#	44
10) ACETONE	6.58	58	64215	3.59	PPBv		91
11) TRICHLOROFLUOROMETHANE	6.75	101	471473	4.23	PPBv		99
12) ETHANOL	6.07	45	49664	3.33	PPBv	#	43
13) ACRYLONITRILE	7.06	53	69099	2.83	PPBv	#	100
14) 1,1-DICHLOROETHENE	7.42	96	202647	4.04	PPBv		88
15) METHYLENE CHLORIDE	7.54	84	199357	3.99	PPBv		89
16) FREON 113	7.81	101	486815	4.15	PPBv		98
17) CARBON DISULFIDE	7.88	76	635520	3.73	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	8.54	96	217138	3.63	PPBv		89
19) 1,1-DICHLOROETHANE	8.75	63	415350	3.84	PPBv		98
20) MTBE	8.81	73	543788	3.01	PPBv		95
21) IPA	6.81	45	207253	3.53	PPBv	#	83
22) 2-BUTANONE(MEK)	9.18	72	107814	3.52	PPBv	#	1
23) CIS-1,2-DICHLOROETHENE	9.67	96	220877	3.54	PPBv		91
24) HEXANE	9.90	57	355879	3.75	PPBv		92
25) ETHYL ACETATE	9.90	61	70599	3.61	PPBv		92
26) CHLOROFORM	10.00	83	481086	3.86	PPBv		99
27) TETRAHYDROFURAN	10.48	71	86278	3.32	PPBv		96
28) 1,2-DICHLOROETHANE	10.84	62	324080	3.91	PPBv		98
29) 1,1,1-TRICHLOROETHANE	11.14	97	436791	3.36	PPBv		100
30) BENZENE	11.68	78	679853	3.57	PPBv		100
31) CARBON TETRACHLORIDE	11.85	119	368899	3.21	PPBv		99
32) CYCLOHEXANE	12.00	56	371233m	3.57	PPBv		
34) 1,2-DICHLOROPROPANE	12.65	63	256439	3.94	PPBv	#	88
35) BROMODICHLOROMETHANE	12.88	83	456735	3.86	PPBv		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\022411\A39458.D Vial: 2
Acq On : 24 Feb 2011 4:39 pm Operator: KG
Sample : 5ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:17 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

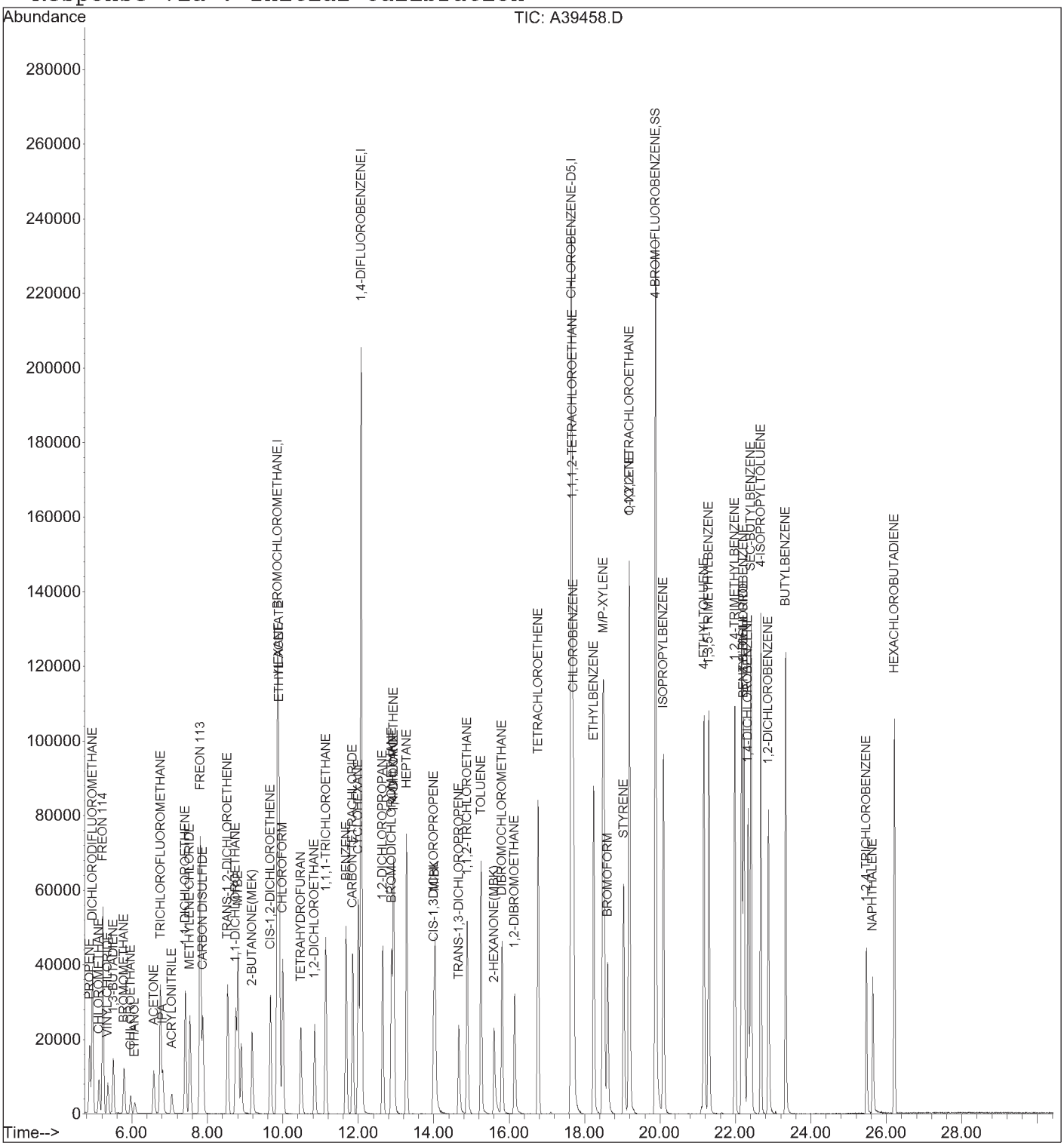
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	1,4-DIOXANE	12.94	88	128438	3.64	PPBv	#	96
37)	TRICHLOROETHENE	12.93	95	303910	4.01	PPBv		99
38)	HEPTANE	13.28	57	223102	3.82	PPBv		90
39)	MIBK	14.04	43	469681m	3.84	PPBv		
40)	CIS-1,3DICHLOROPROPENE	14.00	75	325104m	3.36	PPBv		
41)	TRANS-1,3-DICHLOROPROPENE	14.66	75	264863m	3.04	PPBv		
42)	1,1,2-TRICHLOROETHANE	14.89	83	241819	4.06	PPBv		100
43)	TOLUENE	15.25	91	775426	3.72	PPBv		99
44)	2-HEXANONE(MBK)	15.60	58	178089m	3.24	PPBv		
45)	DIBROMOCHLOROMETHANE	15.81	129	399704	3.83	PPBv		99
46)	1,2-DIBROMOETHANE	16.14	107	410299m	4.00	PPBv		
47)	TETRACHLOROETHENE	16.77	166	406023	4.10	PPBv		99
49)	1,1,1,2-TETRACHLOROETHANE	17.68	135	77108	3.86	PPBv	#	100
50)	CHLOROBENZENE	17.71	112	641238	4.51	PPBv		98
51)	ETHYLBENZENE	18.24	91	1030870	4.12	PPBv		98
52)	M/P-XYLENE	18.50	106	860414	8.92	PPBv		95
53)	BROMOFORM	18.61	173	329478	3.96	PPBv		98
54)	STYRENE	19.03	104	520741	3.96	PPBv		97
55)	O-XYLENE	19.19	106	423493	4.53	PPBv		98
56)	1,1,2,2-TETRACHLOROETHANE	19.18	83	565802	4.69	PPBv		99
58)	ISOPROPYLBENZENE	20.09	105	1061570	4.09	PPBv	#	100
59)	4-ETHYLTOLUENE	21.16	105	1212450m	4.40	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	21.29	105	1090255m	4.56	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.98	105	972639	4.39	PPBv		99
62)	1,3-DICHLOROBENZENE	22.23	146	597904m	4.78	PPBv		
63)	BENZYL CHLORIDE	22.20	91	319287	2.29	PPBv		96
64)	1,4-DICHLOROBENZENE	22.33	146	610227m	4.65	PPBv		
65)	SEC-BUTYLBENZENE	22.41	105	1372336	4.45	PPBv	#	100
66)	4-ISOPROPYLTOLUENE	22.67	119	1106199	4.45	PPBv	#	99
67)	1,2-DICHLOROBENZENE	22.87	146	524666	4.51	PPBv		100
68)	BUTYLBENZENE	23.33	91	955602	4.39	PPBv		98
69)	1,2,4-TRICHLOROBENZENE	25.47	180	218141	3.77	PPBv		99
70)	NAPHTHALENE	25.64	128	494443m	3.89	PPBv		
71)	HEXACHLOROBUTADIENE	26.21	225	323846	4.43	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\022411\A39458.D Vial: 2
Acq On : 24 Feb 2011 4:39 pm Operator: KG
Sample : 5ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:17 2011 Quant Results File: T1021611.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022411\A39459.D Vial: 2
Acq On : 24 Feb 2011 5:21 pm Operator: KG
Sample : 10ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:18 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.86	128	522304	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	12.07	114	2514664	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.64	82	1259544	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.88	95	1443030	10.37	PPBv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.70%				
Target Compounds							Qvalue
2) PROPENE	4.88	42	241813	7.21	PPBv		97
3) DICHLORODIFLUOROMETHANE	4.95	85	1204912	7.99	PPBv		99
4) CHLOROMETHANE	5.12	50	349725m	7.29	PPBv		
5) FREON 114	5.23	85	1002561	7.92	PPBv		91
6) VINYL CHLORIDE	5.36	62	315593	7.44	PPBv		98
7) 1,3-BUTADIENE	5.50	54	218093	7.23	PPBv		95
8) BROMOMETHANE	5.79	94	267502	7.33	PPBv		99
9) CHLOROETHANE	5.96	64	151082	7.24	PPBv		98
10) ACETONE	6.57	58	135447	7.45	PPBv		84
11) TRICHLOROFLUOROMETHANE	6.75	101	947283	8.37	PPBv		99
12) ETHANOL	6.07	45	105450	6.97	PPBv	#	80
13) ACRYLONITRILE	7.05	53	147105	5.92	PPBv	#	100
14) 1,1-DICHLOROETHENE	7.41	96	423403	8.30	PPBv		88
15) METHYLENE CHLORIDE	7.53	84	405630	7.99	PPBv		85
16) FREON 113	7.81	101	977055	8.20	PPBv		99
17) CARBON DISULFIDE	7.87	76	1313359	7.59	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	8.54	96	455631	7.50	PPBv		90
19) 1,1-DICHLOROETHANE	8.75	63	851862	7.75	PPBv		99
20) MTBE	8.81	73	1173611	6.40	PPBv		95
21) IPA	6.81	45	426557	7.15	PPBv	#	85
22) 2-BUTANONE(MEK)	9.17	72	235195	7.56	PPBv	#	1
23) CIS-1,2-DICHLOROETHENE	9.67	96	471325	7.44	PPBv		90
24) HEXANE	9.90	57	739280	7.66	PPBv		96
25) ETHYL ACETATE	9.90	61	156197	7.86	PPBv		93
26) CHLOROFORM	10.00	83	976433	7.71	PPBv		100
27) TETRAHYDROFURAN	10.46	71	192347	7.30	PPBv		96
28) 1,2-DICHLOROETHANE	10.84	62	646499	7.67	PPBv		99
29) 1,1,1-TRICHLOROETHANE	11.14	97	921868	6.99	PPBv		100
30) BENZENE	11.67	78	1422730	7.35	PPBv		100
31) CARBON TETRACHLORIDE	11.85	119	803696	6.88	PPBv		99
32) CYCLOHEXANE	12.00	56	794196m	7.51	PPBv		
34) 1,2-DICHLOROPROPANE	12.64	63	522089	7.90	PPBv	#	88
35) BROMODICHLOROMETHANE	12.88	83	956475	7.96	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022411\A39459.D Vial: 2
Acq On : 24 Feb 2011 5:21 pm Operator: KG
Sample : 10ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:18 2011 Quant Results File: T1021611.RES

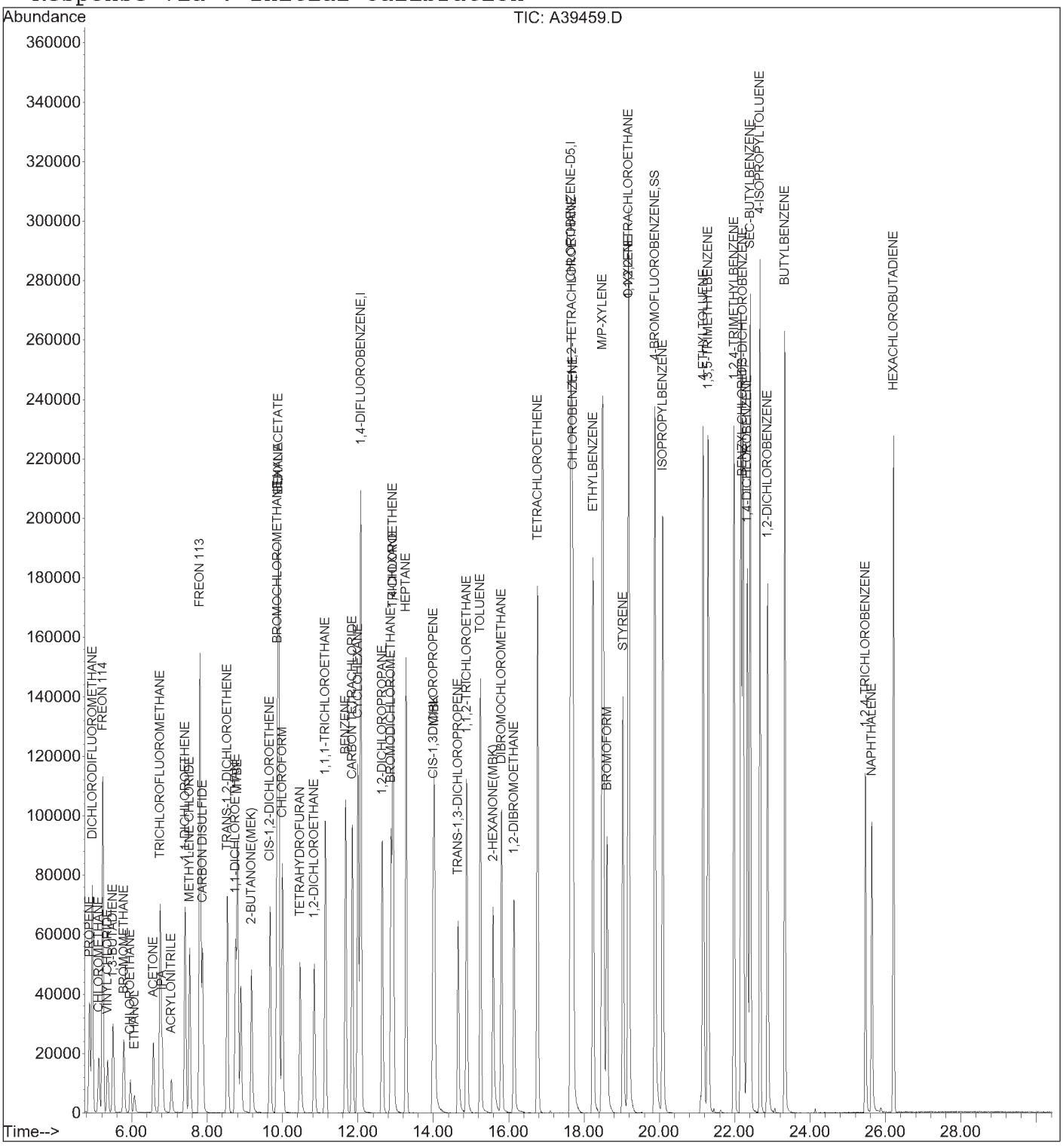
Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	1,4-DIOXANE	12.93	88	282983	7.89	PPBv	#	93
37)	TRICHLOROETHENE	12.93	95	634568	8.25	PPBv		99
38)	HEPTANE	13.28	57	474152	8.01	PPBv		89
39)	MIBK	14.03	43	1037540m	8.37	PPBv		
40)	CIS-1,3DICHLOROPROPENE	13.99	75	701215	7.15	PPBv		99
41)	TRANS-1,3-DICHLOROPROPENE	14.65	75	633021m	7.16	PPBv		
42)	1,1,2-TRICHLOROETHANE	14.88	83	504467m	8.34	PPBv		
43)	TOLUENE	15.25	91	1660093	7.85	PPBv		100
44)	2-HEXANONE(MBK)	15.58	58	464600m	7.36	PPBv		
45)	DIBROMOCHLOROMETHANE	15.81	129	865657	8.18	PPBv		99
46)	1,2-DIBROMOETHANE	16.14	107	874507m	8.40	PPBv		
47)	TETRACHLOROETHENE	16.77	166	829803	8.25	PPBv		98
49)	1,1,1,2-TETRACHLOROETHANE	17.68	135	164305	7.92	PPBv	#	100
50)	CHLOROBENZENE	17.71	112	1308023	8.86	PPBv		98
51)	ETHYLBENZENE	18.24	91	2212251	8.52	PPBv		99
52)	M/P-XYLENE	18.49	106	1788464	17.87	PPBv		96
53)	BROMOFORM	18.61	173	748123	8.67	PPBv		100
54)	STYRENE	19.03	104	1201605m	8.79	PPBv		
55)	O-XYLENE	19.19	106	867058	8.94	PPBv		99
56)	1,1,2,2-TETRACHLOROETHANE	19.17	83	1169221	9.33	PPBv		99
58)	ISOPROPYLBENZENE	20.09	105	2235446	8.30	PPBv	#	100
59)	4-ETHYLTOLUENE	21.16	105	2632224m	9.21	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	21.29	105	2260146m	9.11	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.98	105	2090902	9.08	PPBv		99
62)	1,3-DICHLOROBENZENE	22.22	146	1268480m	9.78	PPBv		
63)	BENZYL CHLORIDE	22.20	91	865665m	5.98	PPBv		
64)	1,4-DICHLOROBENZENE	22.33	146	1220974	8.96	PPBv		97
65)	SEC-BUTYLBENZENE	22.41	105	2863062	8.94	PPBv	#	100
66)	4-ISOPROPYLTOLUENE	22.67	119	2340525	9.08	PPBv	#	99
67)	1,2-DICHLOROBENZENE	22.87	146	1113286	9.23	PPBv		100
68)	BUTYLBENZENE	23.33	91	2060133	9.11	PPBv		98
69)	1,2,4-TRICHLOROBENZENE	25.47	180	504731	8.41	PPBv		100
70)	NAPHTHALENE	25.63	128	1212671m	9.20	PPBv		
71)	HEXACHLOROBUTADIENE	26.21	225	682037	8.99	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\022411\A39459.D Vial: 2
Acq On : 24 Feb 2011 5:21 pm Operator: KG
Sample : 10ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:18 2011 Quant Results File: T1021611.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022411\A39460.D Vial: 2
Acq On : 24 Feb 2011 6:07 pm Operator: KG
Sample : 20ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 13:53 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.86	128	526849	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	12.08	114	2554334	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.65	82	1318269	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.88	95	1488811	10.22	PPBv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.20%				
Target Compounds							Qvalue
2) PROPENE	4.88	42	496269	14.68	PPBv		97
3) DICHLORODIFLUOROMETHANE	4.95	85	2395382	15.74	PPBv		100
4) CHLOROMETHANE	5.12	50	734628m	15.18	PPBv		
5) FREON 114	5.23	85	2045975	16.03	PPBv		91
6) VINYL CHLORIDE	5.36	62	661206	15.45	PPBv		98
7) 1,3-BUTADIENE	5.50	54	461023	15.16	PPBv		95
8) BROMOMETHANE	5.79	94	546521	14.85	PPBv		99
9) CHLOROETHANE	5.97	64	363498	17.28	PPBv		98
10) ACETONE	6.57	58	289723	15.79	PPBv		81
11) TRICHLOROFLUOROMETHANE	6.76	101	1916434	16.78	PPBv		99
12) ETHANOL	6.07	45	255799	16.76	PPBv		99
13) ACRYLONITRILE	7.05	53	309775	12.36	PPBv	#	100
14) 1,1-DICHLOROETHENE	7.42	96	560741	10.90	PPBv		96
15) METHYLENE CHLORIDE	7.54	84	788666	15.40	PPBv		86
16) FREON 113	7.81	101	1967998	16.38	PPBv		98
17) CARBON DISULFIDE	7.88	76	2708034	15.52	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	8.54	96	939023	15.32	PPBv		90
19) 1,1-DICHLOROETHANE	8.76	63	1734916	15.65	PPBv		99
20) MTBE	8.81	73	2483969	13.43	PPBv		95
21) IPA	6.80	45	886723	14.74	PPBv	#	88
22) 2-BUTANONE(MEK)	9.17	72	492455	15.70	PPBv	#	1
23) CIS-1,2-DICHLOROETHENE	9.67	96	976639	15.27	PPBv		91
24) HEXANE	9.90	57	1514635	15.56	PPBv		97
25) ETHYL ACETATE	9.90	61	326829	16.30	PPBv		92
26) CHLOROFORM	10.00	83	1977773	15.48	PPBv		99
27) TETRAHYDROFURAN	10.46	71	411434	15.48	PPBv		95
28) 1,2-DICHLOROETHANE	10.84	62	1341834	15.79	PPBv		99
29) 1,1,1-TRICHLOROETHANE	11.14	97	1935090	14.54	PPBv		99
30) BENZENE	11.68	78	2938897	15.05	PPBv		100
31) CARBON TETRACHLORIDE	11.85	119	1760263	14.95	PPBv		100
32) CYCLOHEXANE	12.00	56	1614757m	15.15	PPBv		
34) 1,2-DICHLOROPROPANE	12.65	63	1088219	16.22	PPBv		99
35) BROMODICHLOROMETHANE	12.88	83	2029226	16.62	PPBv		100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\022411\A39460.D Vial: 2
Acq On : 24 Feb 2011 6:07 pm Operator: KG
Sample : 20ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 13:53 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

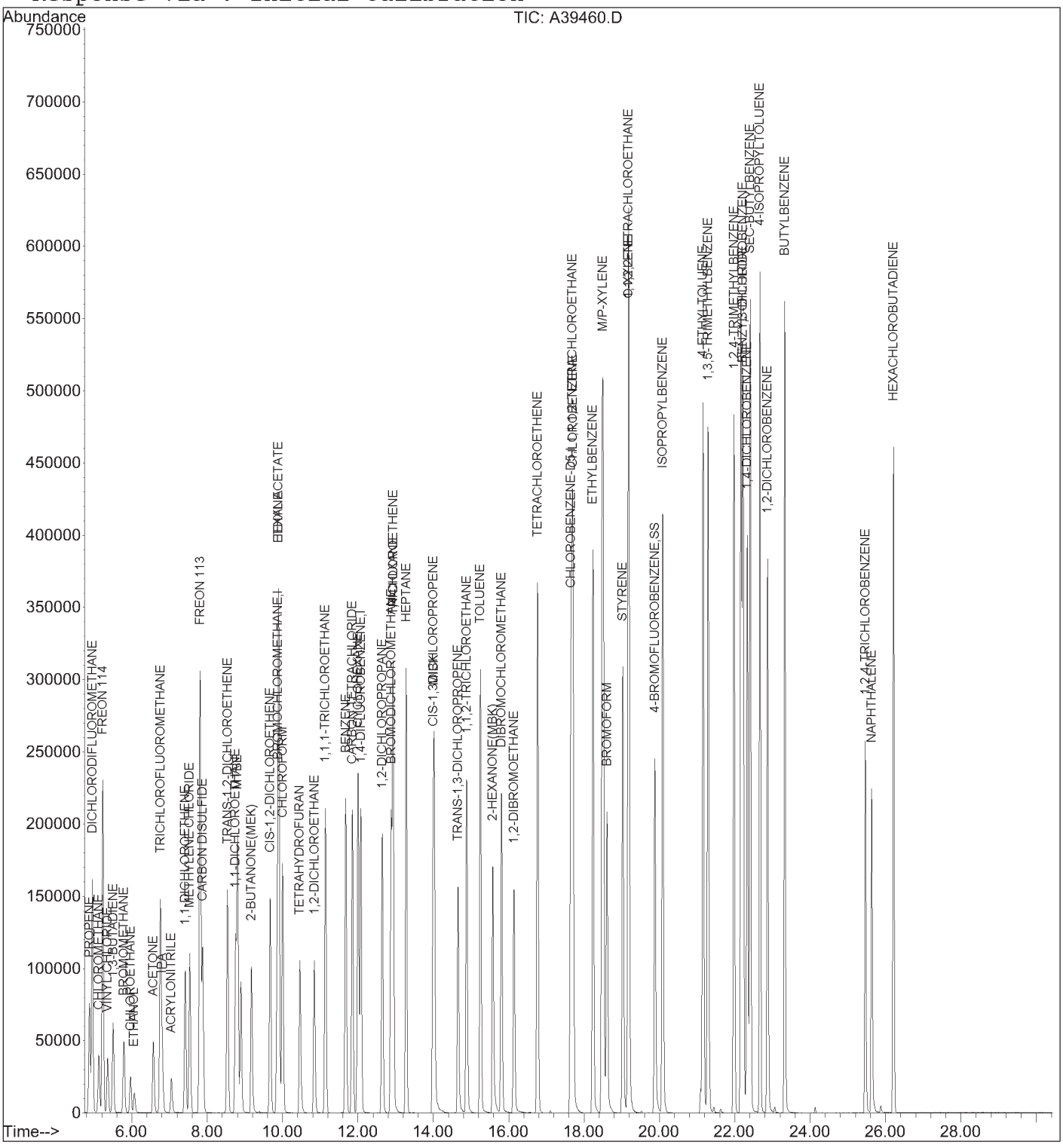
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	1,4-DIOXANE	12.92	88	622436	17.09	PPBv	#	93
37)	TRICHLOROETHENE	12.93	95	1293263	16.55	PPBv		99
38)	HEPTANE	13.28	57	980247	16.30	PPBv		89
39)	MIBK	14.02	43	2186641m	17.36	PPBv		
40)	CIS-1,3DICHLOROPROPENE	13.99	75	1566884	15.72	PPBv		99
41)	TRANS-1,3-DICHLOROPROPENE	14.65	75	1436808m	15.99	PPBv		
42)	1,1,2-TRICHLOROETHANE	14.88	83	1035558m	16.86	PPBv		
43)	TOLUENE	15.25	91	3556579m	16.56	PPBv		
44)	2-HEXANONE(MBK)	15.58	58	1079030m	16.03	PPBv		
45)	DIBROMOCHLOROMETHANE	15.81	129	1867442	17.38	PPBv		100
46)	1,2-DIBROMOETHANE	16.14	107	1808049m	17.10	PPBv		
47)	TETRACHLOROETHENE	16.76	166	1710217m	16.75	PPBv		
49)	1,1,1,2-TETRACHLOROETHANE	17.68	135	348655	16.05	PPBv	#	100
50)	CHLOROBENZENE	17.71	112	2689796	17.41	PPBv		97
51)	ETHYLBENZENE	18.24	91	4650062	17.12	PPBv		100
52)	M/P-XYLENE	18.50	106	3742232	35.73	PPBv		97
53)	BROMOFORM	18.61	173	1768969m	19.60	PPBv		
54)	STYRENE	19.03	104	2578972	18.03	PPBv		97
55)	O-XYLENE	19.19	106	1831170	18.04	PPBv		98
56)	1,1,2,2-TETRACHLOROETHANE	19.17	83	2479435m	18.91	PPBv		
58)	ISOPROPYLBENZENE	20.09	105	4696277	16.67	PPBv	#	100
59)	4-ETHYLTOLUENE	21.16	105	5606535m	18.75	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	21.29	105	4676811m	18.01	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.98	105	4441721	18.44	PPBv		100
62)	1,3-DICHLOROBENZENE	22.22	146	2672965m	19.69	PPBv		
63)	BENZYL CHLORIDE	22.20	91	2214136	14.62	PPBv		98
64)	1,4-DICHLOROBENZENE	22.33	146	2706742m	18.97	PPBv		
65)	SEC-BUTYLBENZENE	22.41	105	5941365	17.72	PPBv	#	100
66)	4-ISOPROPYLTOLUENE	22.67	119	4915054	18.22	PPBv	#	99
67)	1,2-DICHLOROBENZENE	22.87	146	2384020	18.88	PPBv		100
68)	BUTYLBENZENE	23.33	91	4420907	18.69	PPBv		98
69)	1,2,4-TRICHLOROBENZENE	25.46	180	1117285	17.79	PPBv		100
70)	NAPHTHALENE	25.63	128	2619921	18.99	PPBv		100
71)	HEXACHLOROBUTADIENE	26.21	225	1389438	17.51	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\022411\A39460.D Vial: 2
Acq On : 24 Feb 2011 6:07 pm Operator: KG
Sample : 20ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 13:53 2011 Quant Results File: T1021611.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022411\A39462.D Vial: 4
Acq On : 24 Feb 2011 7:30 pm Operator: KG
Sample : 25ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:21 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.87	128	514431	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	12.08	114	2534759	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.65	82	1304521m	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.88	95	1489457	10.33	PPBv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.30%				
Target Compounds							Qvalue
2) PROPENE	4.88	42	821762	24.89	PPBv		97
3) DICHLORODIFLUOROMETHANE	4.95	85	4305915	28.99	PPBv		100
4) CHLOROMETHANE	5.13	50	1620985m	34.29	PPBv		
5) FREON 114	5.23	85	4018721	32.25	PPBv		91
6) VINYL CHLORIDE	5.37	62	1391392	33.30	PPBv		98
7) 1,3-BUTADIENE	5.51	54	997463	33.59	PPBv		93
8) BROMOMETHANE	5.80	94	1125364	31.32	PPBv		99
9) CHLOROETHANE	5.97	64	638297	31.08	PPBv		98
10) ACETONE	6.58	58	461552	25.77	PPBv		84
11) TRICHLOROFLUOROMETHANE	6.76	101	3233405	29.00	PPBv		99
12) ETHANOL	6.08	45	271753	18.24	PPBv		97
13) ACRYLONITRILE	7.06	53	538189	22.00	PPBv	#	100
14) 1,1-DICHLOROETHENE	7.42	96	937297	18.66	PPBv		96
15) METHYLENE CHLORIDE	7.54	84	839235	16.78	PPBv	#	80
16) FREON 113	7.81	101	2127815	18.14	PPBv		97
17) CARBON DISULFIDE	7.88	76	2759814	16.20	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	8.54	96	1569798	26.23	PPBv		90
19) 1,1-DICHLOROETHANE	8.76	63	2911701	26.91	PPBv		99
20) MTBE	8.81	73	4217389	23.36	PPBv		95
21) IPA	6.82	45	1376612	23.43	PPBv	#	91
22) 2-BUTANONE(MEK)	9.18	72	807373	26.36	PPBv	#	1
23) CIS-1,2-DICHLOROETHENE	9.68	96	1646561	26.37	PPBv		91
24) HEXANE	9.90	57	2533719	26.66	PPBv		97
25) ETHYL ACETATE	9.91	61	535820	27.36	PPBv		92
26) CHLOROFORM	10.01	83	3306940	26.50	PPBv		100
27) TETRAHYDROFURAN	10.47	71	678740	26.15	PPBv		95
28) 1,2-DICHLOROETHANE	10.85	62	2249073	27.10	PPBv		99
29) 1,1,1-TRICHLOROETHANE	11.14	97	3298756	25.39	PPBv		99
30) BENZENE	11.68	78	4950563	25.96	PPBv		100
31) CARBON TETRACHLORIDE	11.86	119	3046152	26.49	PPBv		100
32) CYCLOHEXANE	12.00	56	2739538m	26.32	PPBv		
34) 1,2-DICHLOROPROPANE	12.65	63	1830595	27.49	PPBv		100
35) BROMODICHLOROMETHANE	12.89	83	3413216	28.17	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022411\A39462.D Vial: 4
Acq On : 24 Feb 2011 7:30 pm Operator: KG
Sample : 25ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:21 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

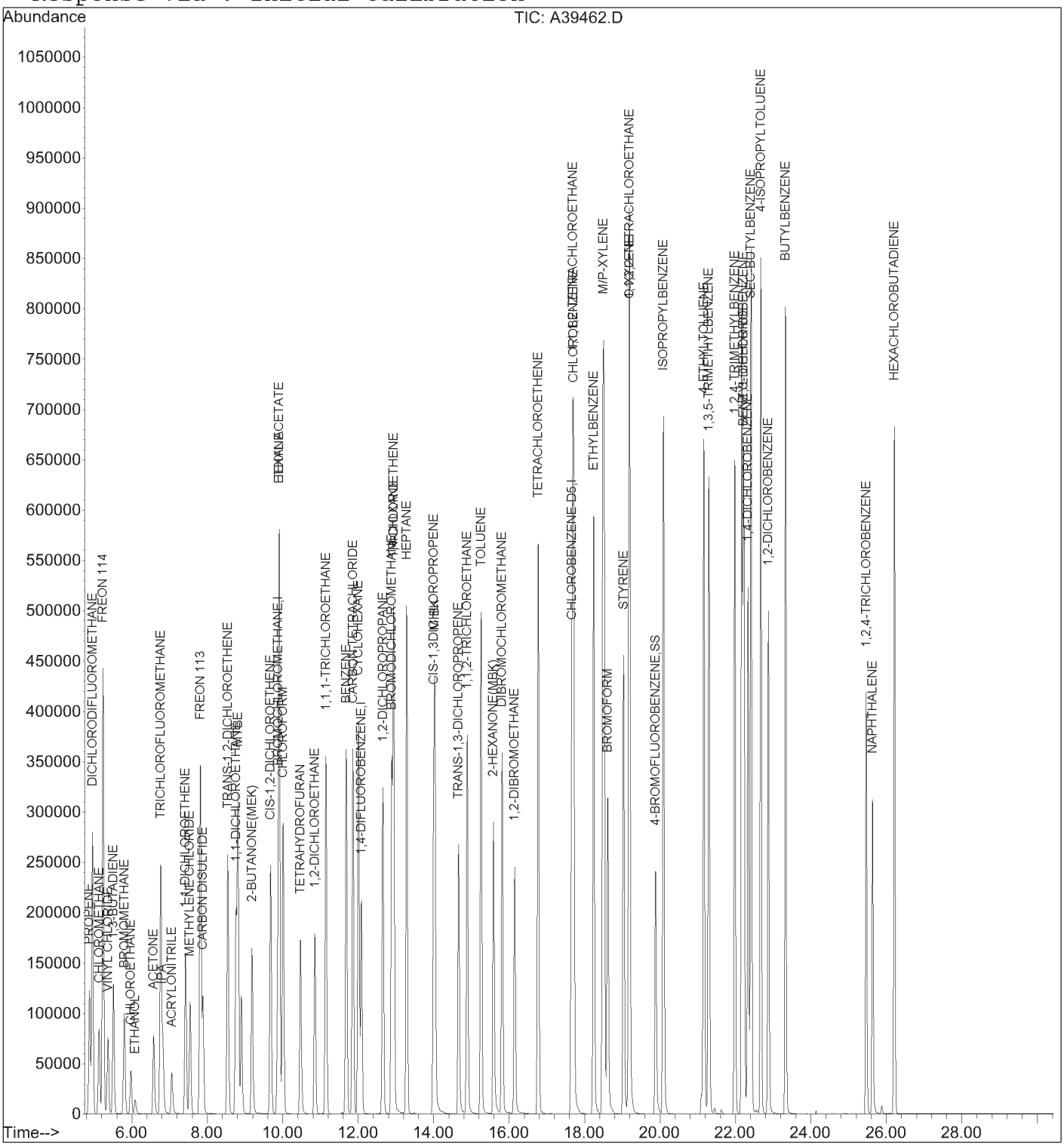
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	1,4-DIOXANE	12.93	88	878648	24.32	PPBv	#	93
37)	TRICHLOROETHENE	12.94	95	2108870	27.19	PPBv		100
38)	HEPTANE	13.29	57	1618179	27.12	PPBv		88
39)	MIBK	14.03	43	3545948	28.37	PPBv		97
40)	CIS-1,3DICHLOROPROPENE	14.00	75	2663738	26.93	PPBv		99
41)	TRANS-1,3-DICHLOROPROPENE	14.66	75	2339108	26.24	PPBv		99
42)	1,1,2-TRICHLOROETHANE	14.89	83	1639707	26.90	PPBv		100
43)	TOLUENE	15.26	91	5719735	26.83	PPBv		99
44)	2-HEXANONE(MBK)	15.58	58	1722522	25.40	PPBv		93
45)	DIBROMOCHLOROMETHANE	15.82	129	3038382	28.50	PPBv		100
46)	1,2-DIBROMOETHANE	16.15	107	2764708	26.35	PPBv		100
47)	TETRACHLOROETHENE	16.77	166	2643066	26.08	PPBv		98
49)	1,1,1,2-TETRACHLOROETHANE	17.68	135	638187	29.69	PPBv	#	100
50)	CHLOROBENZENE	17.71	112	4110886	26.89	PPBv		97
51)	ETHYLBENZENE	18.24	91	7186299	26.73	PPBv		100
52)	M/P-XYLENE	18.50	106	5634552	54.37	PPBv		97
53)	BROMOFORM	18.61	173	2549664	28.54	PPBv		100
54)	STYRENE	19.03	104	3858759	27.27	PPBv		97
55)	O-XYLENE	19.19	106	2678310	26.66	PPBv		99
56)	1,1,2,2-TETRACHLOROETHANE	19.18	83	3470453	26.75	PPBv		99
58)	ISOPROPYLBENZENE	20.09	105	7951103	28.52	PPBv	#	100
59)	4-ETHYLTOLUENE	21.16	105	7795828m	26.35	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	21.29	105	6287184m	24.46	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.98	105	5957105	24.99	PPBv		100
62)	1,3-DICHLOROBENZENE	22.22	146	3451974m	25.70	PPBv		
63)	BENZYL CHLORIDE	22.20	91	3098859	20.68	PPBv		98
64)	1,4-DICHLOROBENZENE	22.33	146	3498740m	24.78	PPBv		
65)	SEC-BUTYLBENZENE	22.41	105	9131128	27.52	PPBv	#	100
66)	4-ISOPROPYLTOLUENE	22.67	119	7229073	27.08	PPBv	#	99
67)	1,2-DICHLOROBENZENE	22.87	146	3104284	24.84	PPBv		100
68)	BUTYLBENZENE	23.33	91	6396377	27.32	PPBv		98
69)	1,2,4-TRICHLOROBENZENE	25.47	180	1822202	29.32	PPBv		100
70)	NAPHTHALENE	25.63	128	3597202	26.34	PPBv		100
71)	HEXACHLOROBUTADIENE	26.21	225	2089579	26.61	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\022411\A39462.D Vial: 4
Acq On : 24 Feb 2011 7:30 pm Operator: KG
Sample : 25ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:21 2011 Quant Results File: T1021611.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022411\A39463.D Vial: 4
Acq On : 24 Feb 2011 8:12 pm Operator: KG
Sample : 50ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:27 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.87	128	516042	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	12.09	114	2578911	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.65	82	1512754m	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.88	95	1548463	9.26	PPBv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.60%				
Target Compounds							Qvalue
2) PROPENE	4.88	42	1684722	50.88	PPBv		97
3) DICHLORODIFLUOROMETHANE	4.96	85	8671645	58.19	PPBv		100
4) CHLOROMETHANE	5.13	50	3297848m	69.55	PPBv		
5) FREON 114	5.24	85	8013108	64.10	PPBv		91
6) VINYL CHLORIDE	5.37	62	2890136	68.94	PPBv		98
7) 1,3-BUTADIENE	5.51	54	2054984	68.99	PPBv		92
8) BROMOMETHANE	5.80	94	2292245	63.60	PPBv		100
9) CHLOROETHANE	5.97	64	1338364	64.96	PPBv		97
10) ACETONE	6.57	58	993596	55.29	PPBv		81
11) TRICHLOROFLUOROMETHANE	6.76	101	6446943	57.64	PPBv		99
12) ETHANOL	6.08	45	615338	41.17	PPBv		98
13) ACRYLONITRILE	7.06	53	1173329	47.81	PPBv	#	100
14) 1,1-DICHLOROETHENE	7.42	96	1969390	39.09	PPBv		94
15) METHYLENE CHLORIDE	7.54	84	1758505m	35.05	PPBv		
16) FREON 113	7.81	101	4303400	36.56	PPBv		97
17) CARBON DISULFIDE	7.88	76	6121150m	35.82	PPBv		
18) TRANS-1,2-DICHLOROETHENE	8.54	96	3258025	54.27	PPBv		90
19) 1,1-DICHLOROETHANE	8.76	63	5910065	54.44	PPBv		99
20) MTBE	8.81	73	8861243	48.93	PPBv		95
21) IPA	6.82	45	2953095	50.11	PPBv		95
22) 2-BUTANONE(MEK)	9.18	72	1703495	55.45	PPBv	#	1
23) CIS-1,2-DICHLOROETHENE	9.68	96	3393244	54.18	PPBv		90
24) HEXANE	9.90	57	5058284	53.06	PPBv		96
25) ETHYL ACETATE	9.91	61	1099270	55.96	PPBv		90
26) CHLOROFORM	10.01	83	6748969	53.91	PPBv		100
27) TETRAHYDROFURAN	10.46	71	1416203	54.38	PPBv		95
28) 1,2-DICHLOROETHANE	10.85	62	4587959	55.11	PPBv		98
29) 1,1,1-TRICHLOROETHANE	11.14	97	6862919	52.65	PPBv		98
30) BENZENE	11.68	78	10119243	52.90	PPBv		100
31) CARBON TETRACHLORIDE	11.86	119	6401375	55.50	PPBv		100
32) CYCLOHEXANE	12.00	56	5596668m	53.60	PPBv		
34) 1,2-DICHLOROPROPANE	12.65	63	3733533	55.11	PPBv		99
35) BROMODICHLOROMETHANE	12.89	83	7009153	56.87	PPBv		100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\022411\A39463.D Vial: 4
Acq On : 24 Feb 2011 8:12 pm Operator: KG
Sample : 50ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:27 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

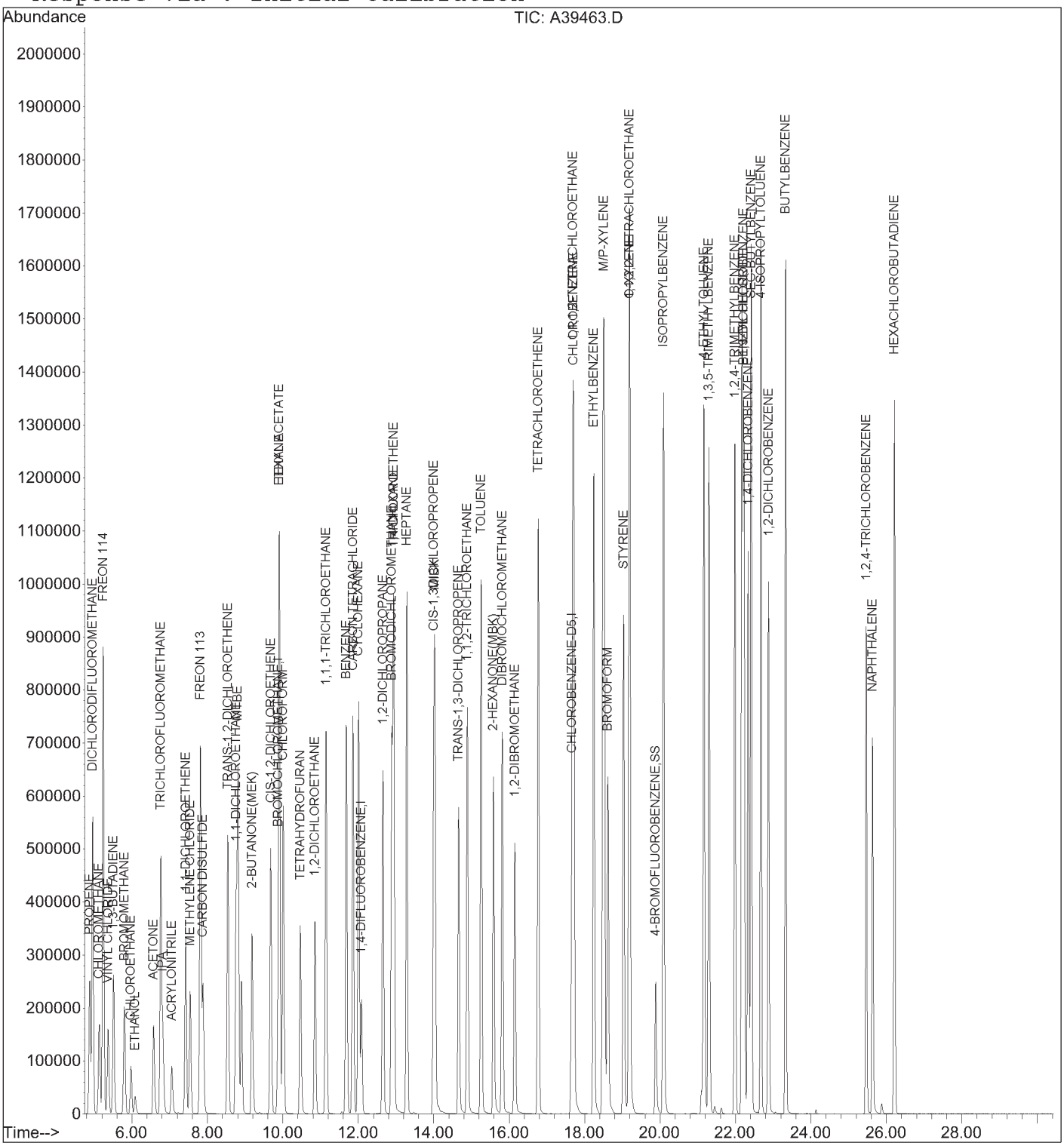
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	1,4-DIOXANE	12.93	88	1836959	49.97	PPBv	#	92
37)	TRICHLOROETHENE	12.94	95	4233887	53.66	PPBv		98
38)	HEPTANE	13.29	57	3251597	53.55	PPBv		88
39)	MIBK	14.03	43	7236156	56.91	PPBv		96
40)	CIS-1,3DICHLOROPROPENE	14.00	75	5605138	55.69	PPBv		99
41)	TRANS-1,3-DICHLOROPROPENE	14.66	75	5116486	56.41	PPBv		98
42)	1,1,2-TRICHLOROETHANE	14.89	83	3385280	54.58	PPBv		100
43)	TOLUENE	15.26	91	11788315	54.35	PPBv		100
44)	2-HEXANONE(MBK)	15.58	58	3784671	54.14	PPBv		91
45)	DIBROMOCHLOROMETHANE	15.82	129	6332221	58.37	PPBv		100
46)	1,2-DIBROMOETHANE	16.15	107	5795898	54.29	PPBv		100
47)	TETRACHLOROETHENE	16.77	166	5335505	51.75	PPBv		98
49)	1,1,1,2-TETRACHLOROETHANE	17.69	135	1270571	50.98	PPBv	#	100
50)	CHLOROBENZENE	17.71	112	8203484	46.28	PPBv		98
51)	ETHYLBENZENE	18.24	91	14732204	47.25	PPBv		100
52)	M/P-XYLENE	18.51	106	11179807	93.03	PPBv		99
53)	BROMOFORM	18.62	173	5528522	53.37	PPBv		99
54)	STYRENE	19.03	104	8021490	48.88	PPBv		98
55)	O-XYLENE	19.20	106	5275093	45.28	PPBv		99
56)	1,1,2,2-TETRACHLOROETHANE	19.18	83	6881832	45.74	PPBv		100
58)	ISOPROPYLBENZENE	20.09	105	15940807	49.31	PPBv	#	100
59)	4-ETHYLTOLUENE	21.16	105	15785071m	46.00	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	21.29	105	12580405m	42.21	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.98	105	12019395	43.48	PPBv		100
62)	1,3-DICHLOROBENZENE	22.23	146	6842349m	43.93	PPBv		
63)	BENZYL CHLORIDE	22.20	91	7218902	41.54	PPBv		97
64)	1,4-DICHLOROBENZENE	22.33	146	7035873m	42.98	PPBv		
65)	SEC-BUTYLBENZENE	22.42	105	17867303	46.43	PPBv	#	100
66)	4-ISOPROPYLTOLUENE	22.67	119	14145728	45.69	PPBv	#	98
67)	1,2-DICHLOROBENZENE	22.87	146	6280474	43.34	PPBv		100
68)	BUTYLBENZENE	23.33	91	12970388	47.78	PPBv		98
69)	1,2,4-TRICHLOROBENZENE	25.47	180	4002152	55.53	PPBv		100
70)	NAPHTHALENE	25.63	128	8096303	51.13	PPBv		100
71)	HEXACHLOROBUTADIENE	26.21	225	4290416	47.11	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\022411\A39463.D Vial: 4
Acq On : 24 Feb 2011 8:12 pm Operator: KG
Sample : 50ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:27 2011 Quant Results File: T1021611.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022411\A39464.D Vial: 4
Acq On : 24 Feb 2011 8:58 pm Operator: KG
Sample : 100ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:23 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.86	128	520982	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	12.08	114	2691528	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.65	82	1606316m	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.88	95	1632264	9.19	PPBv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.90%				
Target Compounds							Qvalue
2) PROPENE	4.88	42	3379287	101.08	PPBv		98
3) DICHLORODIFLUOROMETHANE	4.95	85	15827882	105.21	PPBv		100
4) CHLOROMETHANE	5.12	50	5339540m	111.54	PPBv		
5) FREON 114	5.23	85	13109408	103.87	PPBv		91
6) VINYL CHLORIDE	5.36	62	4726394m	111.68	PPBv		
7) 1,3-BUTADIENE	5.50	54	3232303	107.48	PPBv		93
8) BROMOMETHANE	5.79	94	3869954	106.36	PPBv		100
9) CHLOROETHANE	5.97	64	2232583	107.33	PPBv		97
10) ACETONE	6.56	58	1884252	103.86	PPBv		81
11) TRICHLOROFLUOROMETHANE	6.75	101	12378418	109.62	PPBv		99
12) ETHANOL	6.07	45	1060824	70.31	PPBv		99
13) ACRYLONITRILE	7.05	53	2453283	99.02	PPBv	#	100
14) 1,1-DICHLOROETHENE	7.42	96	4520831	88.87	PPBv		92
15) METHYLENE CHLORIDE	7.53	84	5668874	111.93	PPBv		87
16) FREON 113	7.81	101	12487401	105.09	PPBv		96
17) CARBON DISULFIDE	7.87	76	19223886	111.42	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	8.53	96	6573163	108.45	PPBv		89
19) 1,1-DICHLOROETHANE	8.75	63	11751282	107.22	PPBv		99
20) MTBE	8.80	73	18113160	99.06	PPBv		95
21) IPA	6.81	45	5991283	100.69	PPBv	#	96
22) 2-BUTANONE(MEK)	9.17	72	3515604	113.35	PPBv	#	1
23) CIS-1,2-DICHLOROETHENE	9.67	96	6897231	109.09	PPBv		90
24) HEXANE	9.90	57	9537528	99.10	PPBv		92
25) ETHYL ACETATE	9.90	61	2103298	106.05	PPBv		87
26) CHLOROFORM	10.00	83	13587654	107.51	PPBv		100
27) TETRAHYDROFURAN	10.45	71	2951357	112.26	PPBv		94
28) 1,2-DICHLOROETHANE	10.84	62	9258993	110.16	PPBv		98
29) 1,1,1-TRICHLOROETHANE	11.14	97	13903629	105.65	PPBv		98
30) BENZENE	11.68	78	20468828	105.99	PPBv		100
31) CARBON TETRACHLORIDE	11.85	119	12758176	109.56	PPBv		99
32) CYCLOHEXANE	12.00	56	11266218m	106.87	PPBv		
34) 1,2-DICHLOROPROPANE	12.65	63	7452274	105.41	PPBv		99
35) BROMODICHLOROMETHANE	12.88	83	13853156	107.69	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\022411\A39464.D Vial: 4
Acq On : 24 Feb 2011 8:58 pm Operator: KG
Sample : 100ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:23 2011 Quant Results File: T1021611.RES

Quant Method : C:\HPCHEM\1\METHODS\T1021611.M (Chemstation Integrator)
Title :
Last Update : Thu Feb 17 07:53:25 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

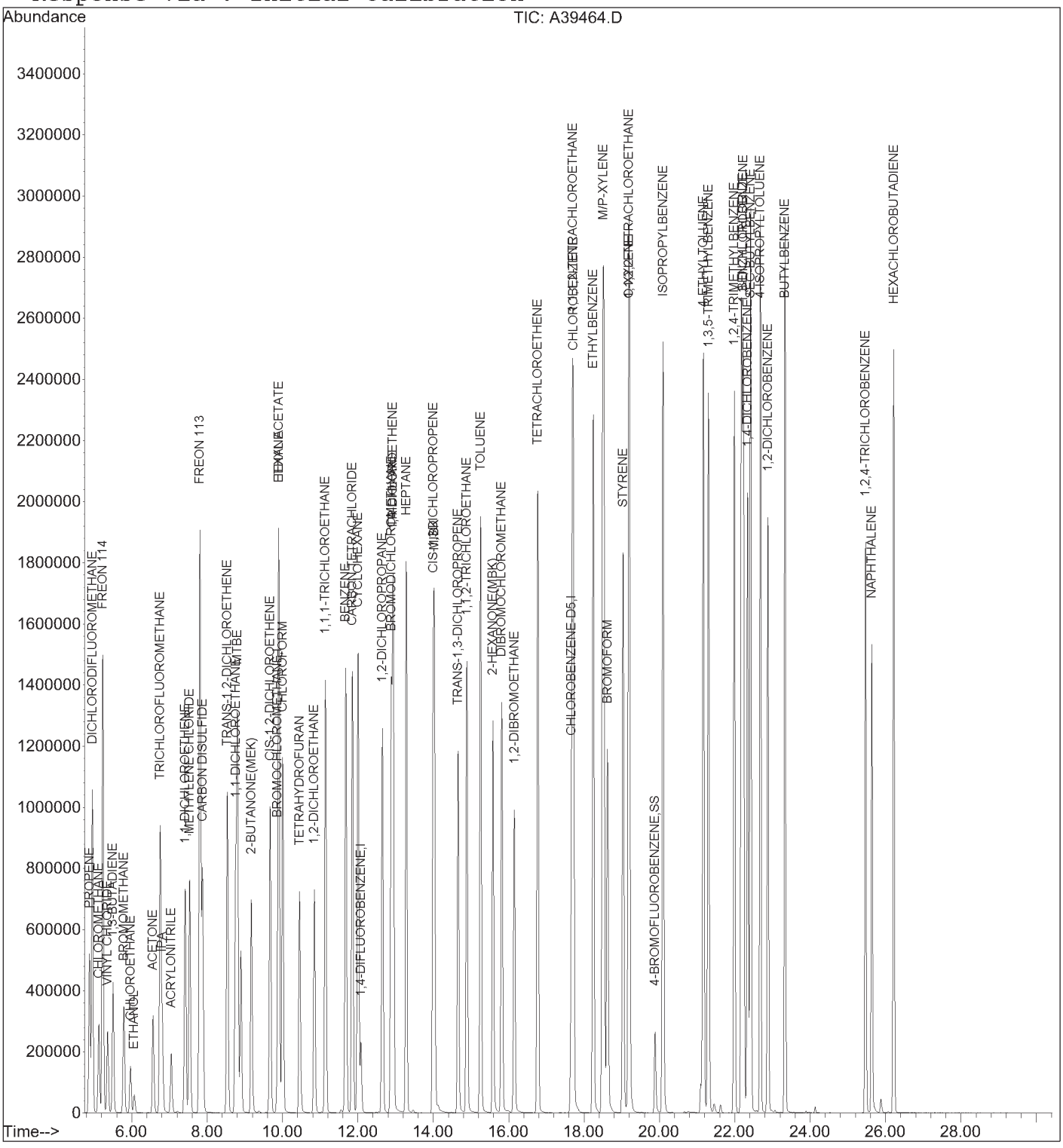
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	1,4-DIOXANE	12.92	88	3663496	95.48	PPBv	#	89
37)	TRICHLOROETHENE	12.94	95	8115468	98.55	PPBv		94
38)	HEPTANE	13.28	57	6313922	99.64	PPBv		87
39)	MIBK	14.03	43	13669447	103.01	PPBv	#	94
40)	CIS-1,3DICHLOROPROPENE	13.99	75	11257509	107.17	PPBv		99
41)	TRANS-1,3-DICHLOROPROPENE	14.66	75	10760445	113.67	PPBv		98
42)	1,1,2-TRICHLOROETHANE	14.89	83	6795543	104.97	PPBv		98
43)	TOLUENE	15.26	91	23325827	103.04	PPBv		100
44)	2-HEXANONE(MBK)	15.58	58	7793335	106.21	PPBv		88
45)	DIBROMOCHLOROMETHANE	15.82	129	12438861	109.87	PPBv		99
46)	1,2-DIBROMOETHANE	16.15	107	11560933	103.77	PPBv		100
47)	TETRACHLOROETHENE	16.77	166	10026949	93.18	PPBv		98
49)	1,1,1,2-TETRACHLOROETHANE	17.69	135	2372561	89.65	PPBv	#	100
50)	CHLOROBENZENE	17.72	112	15326593	81.43	PPBv		100
51)	ETHYLBENZENE	18.24	91	28869720	87.21	PPBv		99
52)	M/P-XYLENE	18.51	106	20634378	161.70	PPBv		97
53)	BROMOFORM	18.62	173	11112155	101.02	PPBv		99
54)	STYRENE	19.04	104	15987738	91.75	PPBv		98
55)	O-XYLENE	19.20	106	9559776	77.27	PPBv		97
56)	1,1,2,2-TETRACHLOROETHANE	19.18	83	12472235	78.07	PPBv		99
58)	ISOPROPYLBENZENE	20.09	105	30302372	88.27	PPBv	#	100
59)	4-ETHYLTOLUENE	21.17	105	30394929m	83.42	PPBv		
60)	1,3,5-TRIMETHYLBENZENE	21.30	105	24313695m	76.82	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.99	105	23419826	79.78	PPBv		98
62)	1,3-DICHLOROBENZENE	22.23	146	12376207	74.83	PPBv		99
63)	BENZYL CHLORIDE	22.21	91	15166259	82.19	PPBv		96
64)	1,4-DICHLOROBENZENE	22.34	146	13411020	77.15	PPBv		99
65)	SEC-BUTYLBENZENE	22.42	105	33086490	80.98	PPBv	#	100
66)	4-ISOPROPYLTOLUENE	22.68	119	26102859	79.40	PPBv	#	97
67)	1,2-DICHLOROBENZENE	22.88	146	12177818	79.14	PPBv		99
68)	BUTYLBENZENE	23.33	91	24710420	85.72	PPBv		97
69)	1,2,4-TRICHLOROBENZENE	25.47	180	8376972	109.46	PPBv		99
70)	NAPHTHALENE	25.64	128	17564983	104.47	PPBv		100
71)	HEXACHLOROBUTADIENE	26.22	225	8533061	88.24	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\022411\A39464.D Vial: 4
Acq On : 24 Feb 2011 8:58 pm Operator: KG
Sample : 100ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 11:23 2011 Quant Results File: T1021611.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



FORM VI - INITIAL CALIBRATION DATA

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103010	Instrument:	Air4
Matrix:	Air	Calibration Date:	03/09/11 09:34
File ID:	T4030911L		

	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
Compound	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1-Trichloroethane	0.04	0	0.1	10.52469	0.2	9.771129	0.5	8.555646	1	8.678271	2	7.934261
Propene	0.04	0	0.1	3.487935	0.2	3.284046	0.5	3.425951	1	3.071971	2	2.971681
Dichlorodifluoromethane (Freon12	0.04	0	0.1	19.03623	0.2	16.81853	0.5	14.41051	1	14.07561	2	12.49405
Chloromethane	0.04	0	0.1	10.40809	0.2	8.150592	0.5	7.689279	1	6.798374	2	6.555118
1,2-Dichlorotetrafluoroethane (Fre	0.04	0	0.1	25.09592	0.2	21.53221	0.5	18.15424	1	17.14393	2	15.5131
Vinyl chloride	0.04	0	0.1	7.722545	0.2	6.838683	0.5	6.498691	1	5.83731	2	5.665516
1,3-Butadiene	0.04	0	0.1	6.438197	0.2	5.61344	0.5	5.285316	1	4.949901	2	4.437983
Bromomethane	0.04	0	0.1	8.520708	0.2	7.265634	0.5	7.303233	1	6.214636	2	5.7413
Chloroethane	0.04	0	0.1	3.573511	0.2	3.455212	0.5	3.120431	1	2.886686	2	2.71648
Acetone	0.04	0	0.1	4.814601	0.2	3.577387	0.5	3.341915	1	3.025806	2	2.830897
Trichlorofluoromethane (Freon 11)	0.04	0	0.1	27.53672	0.2	22.54753	0.5	20.0612	1	17.78843	2	16.70548
Ethanol	0.04	0	0.1	1.419295	0.2	1.926035	0.5	1.739128	1	1.954409	2	1.794995
1,1-Dichloroethene	0.04	0	0.1	8.398221	0.2	7.012256	0.5	6.650994	1	6.356718	2	5.562194
Acrylonitrile			0.1	3.74913	0.2	3.473508	0.5	3.335088	1	3.259709	2	3.028988
Methylene chloride	0.04	0	0.1	7.771211	0.2	6.291001	0.5	5.566365	1	5.121371	2	4.6565
1,1,2-Trichlorotrifluoroethane (Fre	0.04	0	0.1	16.96994	0.2	13.34527	0.5	11.40383	1	11.11964	2	10.6278
Carbon disulfide	0.04	0	0.1	14.03496	0.2	12.20681	0.5	11.93828	1	12.65915	2	12.19539
trans-1,2-Dichloroethene	0.04	0	0.1	5.304078	0.2	4.888574	0.5	5.445118	1	5.032234	2	4.797315
1,1-Dichloroethane	0.04	0	0.1	9.807642	0.2	8.544201	0.5	7.389	1	7.390211	2	6.715219
Methyl tert-butyl ether	0.04	0	0.1	7.884999	0.2	8.406498	0.5	8.260271	1	8.345513	2	8.512537
Isopropyl alcohol	0.04	0	0.1	12.07165	0.2	9.733213	0.5	9.140532	1	9.361373	2	8.188322
2-Butanone (MEK)	0.04	0	0.1	1.783699	0.2	1.929767	0.5	2.24916	1	2.247689	2	2.212164
cis-1,2-Dichloroethene	0.04	0	0.1	5.799902	0.2	4.683223	0.5	4.647739	1	5.192643	2	4.875857
Hexane	0.04	0	0.1	8.342502	0.2	6.643082	0.5	7.405105	1	7.355732	2	6.925494
Ethyl acetate	0.04	0	0.1	1.289755	0.2	1.442029	0.5	1.242221	1	1.53506	2	1.437425
Chloroform	0.04	0	0.1	12.58252	0.2	10.23804	0.5	9.408552	1	9.159451	2	8.068824
Tetrahydrofuran	0.04	0	0.1	0.8421261	0.2	1.442751	0.5	1.447551	1	1.58266	2	1.699252
1,2-Dichloroethane	0.04	0	0.1	6.33875	0.2	6.022577	0.5	4.838599	1	5.010853	2	4.46041
Benzene	0.04	0	0.1	18.09513	0.2	14.61444	0.5	14.94497	1	14.54268	2	13.72168
Carbon tetrachloride	0.04	0	0.1	12.60956	0.2	9.287484	0.5	10.84043	1	10.34396	2	9.62105
Cyclohexane	0.04	0	0.1	8.280906	0.2	6.109845	0.5	7.550197	1	7.516117	2	7.338214
1,2-Dichloropropane	0.04	0	0.1	1.431483	0.2	1.077095	0.5	0.9516135	1	0.9332003	2	0.9497831

FORM VI - INITIAL CALIBRATION DATA

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103010	Instrument:	Air4
Matrix:	Air	Calibration Date:	03/09/11 09:34
File ID:	T4030911L		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromodichloromethane	0.04	0	0.1	2.144865	0.2	2.03118	0.5	1.638419	1	1.657415	2	1.667816
Trichloroethene	0.04	0	0.1	1.608858	0.2	1.231286	0.5	1.372927	1	1.322615	2	1.267646
1,4-Dioxane	0.04	0	0.1	0.5560652	0.2	0.4611988	0.5	0.4337707	1	0.4432175	2	0.5424677
n-Heptane	0.04	0	0.1	1.179039	0.2	0.892278	0.5	0.9030938	1	0.8449226	2	0.8978656
4-Methyl-2-pentanone (MIBK)	0.04	0	0.1	2.243876	0.2	2.202517	0.5	2.191159	1	2.059266	2	2.207056
cis-1,3-Dichloropropene	0.04	0	0.1	1.326818	0.2	1.269653	0.5	1.168807	1	1.245596	2	1.385481
trans-1,3-Dichloropropene	0.04	0	0.1	0.9937988	0.2	0.7694363	0.5	0.9394258	1	1.028194	2	1.137647
1,1,2-Trichloroethane	0.04	0	0.1	1.178548	0.2	1.227283	0.5	1.00926	1	0.9387794	2	0.9709205
Toluene	0.04	0	0.1	3.838428	0.2	2.99233	0.5	3.439225	1	3.450125	2	3.627929
2-Hexanone (MBK)	0.04	0	0.1	0.6582719	0.2	0.7880531	0.5	0.8314019	1	0.9059793	2	0.9895276
Dibromochloromethane	0.04	0	0.1	2.069992	0.2	2.290343	0.5	2.251973	1	2.145446	2	2.277612
1,2-Dibromoethane (EDB)	0.04	0	0.1	1.976979	0.2	1.964574	0.5	1.91785	1	1.818247	2	1.950384
Tetrachloroethene	0.04	0	0.1	2.216592	0.2	1.731358	0.5	1.788387	1	1.760236	2	1.782203
Chlorobenzene	0.04	0	0.1	36.26811	0.2	30.23396	0.5	28.09536	1	26.54191	2	24.39483
Ethylbenzene	0.04	0	0.1	31.10197	0.2	30.6157	0.5	32.18029	1	34.84934	2	33.92409
1,1,1,2-Tetrachloroethane			0.1	3.975867	0.2	4.268754	0.5	3.420922	1	4.212515	2	3.612488
m,p-Xylene	0.08	0	0.2	14.75702	0.4	17.30263	1	16.15819	2	16.70913	4	16.0729
Bromoform	0.04	0	0.1	7.540049	0.2	13.81742	0.5	13.60188	1	14.49129	2	13.77558
Styrene	0.04	0	0.1	15.35235	0.2	14.80933	0.5	18.971	1	19.70573	2	19.81133
o-Xylene	0.04	0	0.1	14.00823	0.2	13.99529	0.5	16.80182	1	15.88621	2	15.19211
1,1,2,2-Tetrachloroethane	0.04	0	0.1	21.08168	0.2	21.48931	0.5	19.43679	1	20.63348	2	18.45631
1,3,5-Trimethylbenzene	0.04	0	0.1	30.76039	0.2	31.94924	0.5	31.36481	1	33.24867	2	32.27393
4-Ethyltoluene	0.04	0	0.1	30.18941	0.2	33.6068	0.5	35.85617	1	39.87183	2	40.64362
1,2,4-Trimethylbenzene	0.04	0	0.1	22.50797	0.2	25.09835	0.5	27.693	1	30.74113	2	30.37654
Isopropylbenzene			0.1	40.07961	0.2	40.58602	0.5	40.56113	1	40.95089	2	40.60463
1,3-Dichlorobenzene	0.04	0	0.1	29.29398	0.2	30.65091	0.5	26.77657	1	25.7287	2	23.46642
Benzyl chloride	0.04	0	0.1	17.2803	0.2	16.40364	0.5	18.09247	1	19.25957	2	19.04319
1,4-Dichlorobenzene	0.04	0	0.1	24.96602	0.2	25.3012	0.5	24.64614	1	24.11739	2	23.32675
Naphthalene			0.1	~~18.57495~~	0.2	~~22.33323~~	0.5	30.44453	1	34.30636	2	35.92269
1,2-Dichlorobenzene	0.04	0	0.1	23.98335	0.2	24.95916	0.5	23.92562	1	22.39416	2	20.62139
1,2,4-Trichlorobenzene	0.04	0	0.1	7.868385	0.2	9.901136	0.5	11.30599	1	11.48652	2	11.47704
Hexachlorobutadiene	0.04	0	0.1	9.24249	0.2	11.4281	0.5	10.85265	1	10.64975	2	9.82777

FORM VI - INITIAL CALIBRATION DATA

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103010	Instrument:	Air4
Matrix:	Air	Calibration Date:	03/09/11 09:34
File ID:	T4030911L		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
sec-Butylbenzene			0.1	50.58481	0.2	54.49043	0.5	51.86274	1	54.01803	2	51.81723
4-Isopropyltoluene			0.1	38.83754	0.2	41.01709	0.5	46.58919	1	47.44099	2	45.36944
n-Butylbenzene			0.1	31.7972	0.2	35.81087	0.5	38.32306	1	38.34932	2	36.77907
4-Bromofluorobenzene	10	3.079879	10	3.223417	10	3.450848	10	3.372417	10	3.523635	10	3.400969

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103010	Instrument:	Air4
Matrix:	Air	Calibration Date:	03/09/11 09:34
File ID:	T4030911L		

	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
Compound	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1-Trichloroethane	5	8.928328	10	9.271649								
Propene	5	2.97908	10	3.054409								
Dichlorodifluoromethane (Freon12	5	11.77567	10	12.46197								
Chloromethane	5	6.05379	10	6.937194								
1,2-Dichlorotetrafluoroethane (Fre	5	14.75866	10	16.2723								
Vinyl chloride	5	5.320707	10	5.722691								
1,3-Butadiene	5	4.115088	10	4.919512								
Bromomethane	5	5.412602	10	5.636997								
Chloroethane	5	2.702286	10	3.019535								
Acetone	5	2.746691	10	2.891911								
Trichlorofluoromethane (Freon 11)	5	15.41532	10	19.39327								
Ethanol	5	1.658476	10	2.076102								
1,1-Dichloroethene	5	5.719578	10	6.234159								
Acrylonitrile	5	2.802957	10	3.245798								
Methylene chloride	5	4.793495	10	4.997698								
1,1,2-Trichlorotrifluoroethane (Fre	5	10.56638	10	10.80223								
Carbon disulfide	5	12.75521	10	12.5602								
trans-1,2-Dichloroethene	5	5.022798	10	4.99637								
1,1-Dichloroethane	5	6.936126	10	7.075458								
Methyl tert-butyl ether	5	9.423077	10	10.10344								
Isopropyl alcohol	5	8.055489	10	9.833168								
2-Butanone (MEK)	5	2.250482	10	2.411907								
cis-1,2-Dichloroethene	5	5.311972	10	5.327173								
Hexane	5	7.362584	10	7.292454								
Ethyl acetate	5	1.622871	10	1.662444								
Chloroform	5	8.352856	10	8.667702								
Tetrahydrofuran	5	1.911622	10	1.970507								
1,2-Dichloroethane	5	4.633688	10	4.951279								
Benzene	5	14.64176	10	14.70799								
Carbon tetrachloride	5	10.45579	10	10.85222								
Cyclohexane	5	7.553846	10	7.522005								
1,2-Dichloropropane	5	0.9736123	10	0.9942338								

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103010	Instrument:	Air4
Matrix:	Air	Calibration Date:	03/09/11 09:34
File ID:	T4030911L		

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromodichloromethane	5	1.780433	10	1.804428								
Trichloroethene	5	1.320855	10	1.322537								
1,4-Dioxane	5	0.5360589	10	0.563246								
n-Heptane	5	0.9449919	10	0.928558								
4-Methyl-2-pentanone (MIBK)	5	2.385184	10	2.484417								
cis-1,3-Dichloropropene	5	1.495568	10	1.570096								
trans-1,3-Dichloropropene	5	1.257212	10	1.363468								
1,1,2-Trichloroethane	5	0.9835428	10	1.017104								
Toluene	5	3.88694	10	4.11049								
2-Hexanone (MBK)	5	1.133404	10	1.210166								
Dibromochloromethane	5	2.508089	10	2.730747								
1,2-Dibromoethane (EDB)	5	2.060513	10	2.188599								
Tetrachloroethene	5	1.879396	10	2.038946								
Chlorobenzene	5	26.6199	10	27.81291								
Ethylbenzene	5	39.67659	10	41.76185								
1,1,1,2-Tetrachloroethane	5	4.232622	10	4.525457								
m,p-Xylene	10	18.39856	20	20.24686								
Bromoform	5	16.51782	10	18.43972								
Styrene	5	24.23938	10	25.5802								
o-Xylene	5	18.37345	10	19.08664								
1,1,2,2-Tetrachloroethane	5	20.42075	10	21.3748								
1,3,5-Trimethylbenzene	5	37.53637	10	41.99467								
4-Ethyltoluene	5	47.26613	10	53.2913								
1,2,4-Trimethylbenzene	5	35.56135	10	41.26477								
Isopropylbenzene	5	45.47829	10	50.40451								
1,3-Dichlorobenzene	5	28.33308	10	31.45441								
Benzyl chloride	5	25.17102	10	30.83661								
1,4-Dichlorobenzene	5	26.94531	10	30.76348								
Naphthalene	5	38.32836	10	37.55186								
1,2-Dichlorobenzene	5	23.60656	10	27.67145								
1,2,4-Trichlorobenzene	5	12.365	10	12.78577								
Hexachlorobutadiene	5	10.91775	10	12.4925								

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103010	Instrument:	Air4
Matrix:	Air	Calibration Date:	03/09/11 09:34
File ID:	T4030911L		

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
sec-Butylbenzene	5	59.33266	10	65.9176								
4-Isopropyltoluene	5	54.99886	10	62.59401								
n-Butylbenzene	5	41.52209	10	46.67895								
4-Bromofluorobenzene	10	3.798472	10	4.010368								

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103010	Instrument:	Air4
Matrix:	Air	Calibration Date:	03/09/11 09:34
File ID:	T4030911L		

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1-Trichloroethane	9.094853	9.385771	11.41071	1.183001E-02			30	
Propene	3.182153	6.756043	5.096714	9.703364E-02			30	
Dichlorodifluoromethane (Freon12)	14.43894	18.2613	5.178571	5.805064E-02			30	
Chloromethane	7.513205	19.37052	5.358571	5.035475E-02			30	
1,2-Dichlorotetrafluoroethane (Freon 114)	18.35291	20.19087	5.467429	0.0304727			30	
Vinyl chloride	6.229449	13.47446	5.604857	5.470771E-02			30	
1,3-Butadiene	5.108491	15.06077	5.753714	7.275126E-02			30	
Bromomethane	6.585016	17.36824	6.048286	7.928012E-02			30	
Chloroethane	3.067734	11.14015	6.228	5.642092E-02			30	
Acetone	3.318458	21.79377	6.835286	0.0894383			30	
Trichlorofluoromethane (Freon 11)	19.92114	20.53259	7.033571	2.628777E-02			30	
Ethanol	1.795491	12.12808	6.322714	0.1226588			30	
1,1-Dichloroethene	6.562017	14.51232	7.701857	5.455216E-02			30	
Acrylonitrile	3.27074	9.274614	5.751286	5.742104E-02			30	
Methylene chloride	5.599663	19.73214	7.814286	3.215435E-02			30	
1,1,2-Trichlorotrifluoroethane (Freon 113)	12.1193	19.32572	8.090857	2.411328E-02			30	
Carbon disulfide	12.62143	5.452192	8.167286	3.111539E-02			30	
trans-1,2-Dichloroethene	5.069498	4.497106	8.819429	5.213289E-02			30	
1,1-Dichloroethane	7.69398	14.32701	9.034143	2.136889E-02			30	
Methyl tert-butyl ether	8.705191	8.894179	9.091286	0.1209534			30	
Isopropyl alcohol	9.483392	14.10291	7.076571	0.1657028			30	
2-Butanone (MEK)	2.154981	10.10356	9.444286	6.172327E-02			30	
cis-1,2-Dichloroethene	5.119787	8.056151	9.943714	6.237891E-02			30	
Hexane	7.332422	7.193731	10.17714	2.738735E-02			30	
Ethyl acetate	1.461686	10.8305	10.16557	9.059732E-02			30	
Chloroform	9.496849	16.21488	10.27129	2.781679E-02			30	
Tetrahydrofuran	1.556638	24.23221	10.74314	0.1344631			30	
1,2-Dichloroethane	5.179451	13.80236	11.11186	2.856176E-02			30	
Benzene	15.03838	9.316664	11.94786	2.736863E-02			30	
Carbon tetrachloride	10.57293	10.15887	12.12514	1.671749E-02			30	
Cyclohexane	7.410161	8.742606	12.27186	4.451908E-02			30	
1,2-Dichloropropane	1.044432	16.96426	12.90971	2.464004E-02			30	
Bromodichloromethane	1.817794	10.87494	13.13729	2.745839E-02			30	

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103010	Instrument:	Air4
Matrix:	Air	Calibration Date:	03/09/11 09:34
File ID:	T4030911L		

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Trichloroethene	1.349532	9.113591	13.19329	2.356035E-02			30	
1,4-Dioxane	0.5051464	11.19199	13.19443	0.1206752			30	
n-Heptane	0.9415356	11.61311	13.53614	1.990021E-02			30	
4-Methyl-2-pentanone (MIBK)	2.253354	6.200419	14.28071	5.457866E-02			30	
cis-1,3-Dichloropropene	1.351717	10.53164	14.24271	2.111199E-02			30	
trans-1,3-Dichloropropene	1.069883	18.7205	14.89686	1.406606E-02			30	
1,1,2-Trichloroethane	1.046491	10.58703	15.12986	8.262112E-03			30	
Toluene	3.620781	10.17962	15.49857	2.440589E-02			30	
2-Hexanone (MBK)	0.930972	20.92458	15.82329	4.844915E-02			30	
Dibromochloromethane	2.324886	9.685068	16.05386	3.036159E-02			30	
1,2-Dibromoethane (EDB)	1.982449	5.864691	16.38486	1.928449E-02			30	
Tetrachloroethene	1.885303	9.507101	17.00857	1.421478E-02			30	
Chlorobenzene	28.56671	13.41961	17.94286	1.264082E-02			30	
Ethylbenzene	34.87283	12.33539	18.47129	1.523595E-02			30	
1,1,1,2-Tetrachloroethane	4.035518	9.728882	17.91471	1.591332E-02			30	
m,p-Xylene	17.09218	10.46971	18.728	3.266536E-02			30	
Bromoform	14.02625	24.04732	18.84	3.802568E-02			30	
Styrene	19.78133	20.48279	19.25414	0.0323437			30	
o-Xylene	16.19196	12.40246	19.41714	0.0160071			30	
1,1,2,2-Tetrachloroethane	20.4133	5.425963	19.40043	0.0188087			30	
1,3,5-Trimethylbenzene	34.16115	12.03566	21.50957	9.739754E-03			30	
4-Ethyltoluene	40.10361	19.951	21.37771	6.962826E-03			30	
1,2,4-Trimethylbenzene	30.4633	20.8687	22.181	9.580692E-03			30	
Isopropylbenzene	42.66644	9.099041	20.314	0.0154827			30	
1,3-Dichlorobenzene	27.95772	10.1107	22.41829	1.641495E-02			30	
Benzyl chloride	20.86954	25.07528	22.39314	1.484718E-02			30	
1,4-Dichlorobenzene	25.72376	9.670714	22.52571	8.447458E-03			30	
Naphthalene	35.31076	8.864645	25.799	1.441949E-02			30	
1,2-Dichlorobenzene	23.88024	9.119123	23.05486	7.637651E-03			30	
1,2,4-Trichlorobenzene	11.02712	15.09284	25.629	5.141306E-03			30	
Hexachlorobutadiene	10.773	9.782791	26.38014	7.227564E-03			30	
sec-Butylbenzene	55.43193	9.807988	22.603	1.336977E-02			30	
4-Isopropyltoluene	48.12102	17.04799	22.855	1.257742E-02			30	

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Calibration:	1103010	Instrument:	Air4
Matrix:	Air	Calibration Date:	03/09/11 09:34
File ID:	T4030911L		

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
n-Butylbenzene	38.46579	12.15648	23.49971	1.182697E-02			30	
4-Bromofluorobenzene	3.482501	8.608816	20.10438	1.521625E-02			30	

Individual peaks for multi-component analytes are indicated by a number in parentheses

Response Factor Report Air 4

Method Path : C:\msdchem\1\METHODS\
Method File : T4030911L.M
Title :
Last Update : Thu Mar 10 09:45:14 2011
Response Via : Initial Calibration

Calibration Files
0.04=C07467.D 0.1 =C07469.D 0.2 =C07470.D 0.5 =C07471.D 1.0 =C07472.D 2.0 =C07473.D
10 =C07475.D

	Compound		0.04	0.1	0.2	0.5	1.0	2.0	5.0	10	Avg	%R
1)	BROMOCHLOROMETHANE		ISTD									
2)	PROPENE		3.488	3.284	3.426	3.072	2.972	2.979	3.054	3.182	6.76	
3)	DICHLORODIFLUO...		1.904	1.682	1.441	1.408	1.249	1.178	1.246	1.444	E1 18.26	
4)	CHLOROMETHANE		1.041	0.815	0.769	0.680	0.656	0.605	0.694	0.751	E1 19.37	
5)	FREON 114		2.510	2.153	1.815	1.714	1.551	1.476	1.627	1.835	E1 20.19	
6)	VINYL CHLORIDE		7.723	6.839	6.499	5.837	5.666	5.321	5.723	6.229	13.47	
7)	VINYL CHLORIDE...	1.929	9.063	7.797	6.942	6.386	6.030			6.358	lr=0.997	
8)	1,3-BUTADIENE		6.438	5.613	5.285	4.950	4.438	4.115	4.920	5.108	15.06	
9)	BROMOMETHANE		8.521	7.266	7.303	6.215	5.741	5.413	5.637	6.585	17.37	
10)	CHLOROETHANE		3.574	3.455	3.120	2.887	2.716	2.702	3.020	3.068	11.14	
11)	ACETONE			3.577	3.342	3.026	2.831	2.747	2.892	3.069	10.58	
12)	TRICHLOROFLUOR...		2.754	2.255	2.006	1.779	1.671	1.542	1.939	1.992	E1 20.53	
13)	ETHANOL		1.419	1.926	1.739	1.954	1.795	1.658	2.076	1.796	12.13	
14)	ACRYLONITRILE		3.749	3.474	3.335	3.260	3.029	2.803	3.246	3.271	9.27	
15)	1,1-DICHLOROET...		8.398	7.012	6.651	6.357	5.562	5.720	6.234	6.562	14.51	
16)	1,1-DICHLOROET...	2.525	9.827	8.349	7.485	7.082	6.484			6.959	lr=0.996	
17)	METHYLENE CHLO...		7.771	6.291	5.566	5.121	4.657	4.793	4.998	5.600	19.73	
18)	FREON 113		1.697	1.335	1.140	1.112	1.063	1.057	1.080	1.212	E1 19.33	
19)	CARBON DISULFIDE		1.403	1.221	1.194	1.266	1.220	1.276	1.256	1.262	E1 5.45	
20)	TRANS-1,2DICHL...		5.304	4.889	5.445	5.032	4.797	5.023	4.996	5.070	4.50	
21)	1,1-DICHLOROET...		9.808	8.544	7.389	7.390	6.715	6.936	7.075	7.694	14.33	
22)	1,1-DICHLOROET...	0.273	1.084	0.933	0.852	0.809	0.747			0.783	E1 lr=0.99	
23)	MTBE		0.788	0.841	0.826	0.835	0.851	0.942	1.010	0.871	E1 8.89	
24)	IPA		1.207	0.973	0.914	0.936	0.819	0.806	0.983	0.948	E1 14.10	
25)	2-BUTANONE (MEK)		1.784	1.930	2.249	2.248	2.212	2.250	2.412	2.155	10.10	
26)	CIS-1,2-DICHLO...		5.800	4.683	4.648	5.193	4.876	5.312	5.327	5.120	8.06	
27)	HEXANE		8.342	6.643	7.405	7.356	6.925	7.363	7.292	7.332	7.19	
28)	ETHYL ACETATE		1.290	1.442	1.242	1.535	1.437	1.623	1.662	1.462	10.83	
29)	CHLOROFORM		1.258	1.024	0.941	0.916	0.807	0.835	0.867	0.950	E1 16.22	
30)	TETRAHYDROFURAN		0.842	1.443	1.448	1.583	1.699	1.912	1.971	1.557	24.23	
31)	1,2-DICHLOROET...		6.339	6.023	4.839	5.011	4.460	4.634	4.951	5.179	13.80	
32)	1,1,1-TRICHLOR...		1.052	0.977	0.856	0.868	0.793	0.893	0.927	0.909	E1 9.39	
33)	BENZENE		1.810	1.461	1.494	1.454	1.372	1.464	1.471	1.504	E1 9.32	
34)	CARBON TETRACH...		1.261	0.929	1.084	1.034	0.962	1.046	1.085	1.057	E1 10.16	
35)	CARBON TETRACH...	0.320	1.411	1.237	1.168	1.142	1.080			1.060	E1 lr=0.9	
36)	CYCLOHEXANE		8.281	6.110	7.550	7.516	7.338	7.554	7.522	7.410	8.74	
37)	1,4-DIFLUROBENZENE		ISTD									
38)	1,2-DICHLOROPR...		1.431	1.077	0.952	0.933	0.950	0.974	0.994	1.044	16.96	
39)	BROMDICHLOROME...		2.145	2.031	1.638	1.657	1.668	1.780	1.804	1.818	10.88	
40)	TRICHLOROETHENE		1.609	1.231	1.373	1.323	1.268	1.321	1.323	1.350	9.11	
41)	TRICHLOROETHEN...	0.522	1.860	1.589	1.579	1.471	1.478			1.416	lr=0.999	
42)	1,4-DIOXANE		0.556	0.461	0.434	0.443	0.542	0.536	0.563	0.505	11.19	
43)	HEPTANE		1.179	0.892	0.903	0.845	0.898	0.945	0.929	0.942	11.61	
44)	MIBK		2.244	2.203	2.191	2.059	2.207	2.385	2.484	2.253	6.20	
45)	CIS-1,3-DICHLO...		1.327	1.270	1.169	1.246	1.385	1.496	1.570	1.352	10.53	
46)	TRANS-1,3-DICH...		0.994	0.769	0.939	1.028	1.138	1.257	1.363	1.070	18.72	
47)	1,1,2-TRICHLOR...		1.179	1.227	1.009	0.939	0.971	0.984	1.017	1.046	10.59	
48)	TOLUENE		3.838	2.992	3.439	3.450	3.628	3.887	4.110	3.621	10.18	
49)	2-HEXANONE (MBK)		0.658	0.788	0.831	0.906	0.990	1.133	1.210	0.931	20.92	
50)	DIBROMOCHLOROM...		2.070	2.290	2.252	2.145	2.278	2.508	2.731	2.325	9.69	
51)	1,2-DIBROMOETHANE		1.977	1.965	1.918	1.818	1.950	2.061	2.189	1.982	5.86	
52)	TETRACHLOROETHENE		2.217	1.731	1.788	1.760	1.782	1.879	2.039	1.885	9.51	

53)		TETRACHLOROETH...	0.770	2.665	2.268	2.237	2.146	2.173			2.043	lr=0.994
54)		CHLOROBENZENE-D5		----------ISTD----------								
55)		CHLOROBENZENE		3.627	3.023	2.810	2.654	2.439	2.662	2.781	2.857 E1	13.42
56)		1,1,1,2-TETRAC...		3.976	4.269	3.421	4.212	3.612	4.233	4.525	4.036	9.73
57)		ETHYLBENZENE		3.110	3.062	3.218	3.485	3.392	3.968	4.176	3.487 E1	12.34
58)		M/P-XYLENE		1.476	1.730	1.616	1.671	1.607	1.840	2.025	1.709 E1	10.47
59)		BROMOFORM		0.754	1.382	1.360	1.449	1.378	1.652	1.844	1.403 E1	24.05
60)		STYRENE		1.535	1.481	1.897	1.971	1.981	2.424	2.558	1.978 E1	20.48
61)		O-XYLENE		1.401	1.400	1.680	1.589	1.519	1.837	1.909	1.619 E1	12.40
62)		1,1,2,2-TETRAC...		2.108	2.149	1.944	2.063	1.846	2.042	2.137	2.041 E1	5.43
63)	SS	4-BROMOFLUOROB...	3.080	3.223	3.451	3.372	3.524	3.401	3.798	4.010	3.483	8.61
64)		ISOPROPYLBENZENE		4.008	4.059	4.056	4.095	4.060	4.548	5.040	4.267 E1	9.10
65)		4-ETHYLTOLUENE		3.019	3.361	3.586	3.987	4.064	4.727	5.329	4.010 E1	19.95
66)		1,3,5-TRIMETHY...		3.076	3.195	3.136	3.325	3.227	3.754	4.199	3.416 E1	12.04
67)		1,2,4-TRIMETHY...		2.251	2.510	2.769	3.074	3.038	3.556	4.126	3.046 E1	20.87
68)		1,3-DICHLOROBE...		2.929	3.065	2.678	2.573	2.347	2.833	3.145	2.796 E1	10.11
69)		BENZYL CHLORIDE		1.728	1.640	1.809	1.926	1.904	2.517	3.084	2.087 E1	25.08
70)		1,4-DICHLOROBE...		2.497	2.530	2.465	2.412	2.333	2.695	3.076	2.572 E1	9.67
71)		SEC-BUTYLBENZENE		5.058	5.449	5.186	5.402	5.182	5.933	6.592	5.543 E1	9.81
72)		4-ISOPROPYLTOL...		3.884	4.102	4.659	4.744	4.537	5.500	6.259	4.812 E1	17.05
73)		1,2-DICHLOROBE...		2.398	2.496	2.393	2.239	2.062	2.361	2.767	2.388 E1	9.12
74)		N-BUTYLBENZENE		3.180	3.581	3.832	3.835	3.678	4.152	4.668	3.847 E1	12.16
75)		1,2,4-TRICHLOR...		0.787	0.990	1.131	1.149	1.148	1.236	1.279	1.103 E1	15.09
76)		NAPHTHALENE				3.044	3.431	3.592	3.833	3.755	3.531 E1	8.86
77)		HEXACHLOROBUTA...		0.924	1.143	1.085	1.065	0.983	1.092	1.249	1.077 E1	9.78

(#) = Out of Range

T4030911L.M Mon Mar 21 10:08:28 2011

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07467.D
Acq On : 9 Mar 2011 11:18 am
Operator : KRL
Sample : 0.04ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 10 08:23:35 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.133	128	405157	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.336	114	1906148	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.879	54	250480	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.105	95	771448	10.86	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 108.60%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7] VINYL CHLORIDE (SIM)	5.599	62	3126m	Below Cal		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	0.000		0	N.D.		
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16] 1,1-DICHLOROETHENE (SIM)	7.686	96	4092m	Below Cal		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22] 1,1-DICHLOROETHANE (SIM)	9.018	63	4423m	Below Cal		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	0.000		0	N.D.		
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07467.D
Acq On : 9 Mar 2011 11:18 am
Operator : KRL
Sample : 0.04ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 10 08:23:35 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

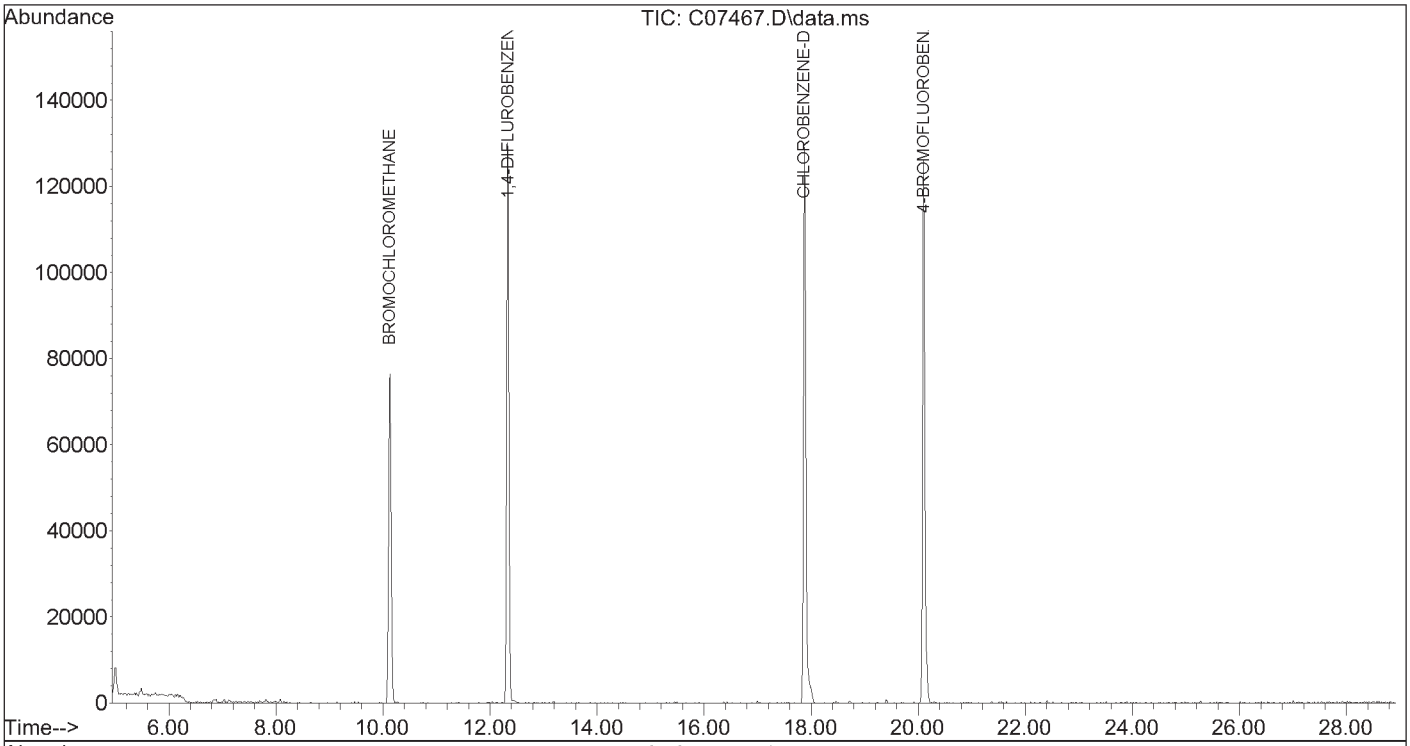
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	12.121	119	5178	N.D.	
36) CYCLOHEXANE	0.000		0	N.D.	d
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.	
39) BROMDICHLOROMETHANE	0.000		0	N.D.	
40) TRICHLOROETHENE	0.000		0	N.D.	
41) TRICHLOROETHENE (SIM)	13.178	95	3980	N.D.	
42) 1,4-DIOXANE	0.000		0	N.D.	
43) HEPTANE	0.000		0	N.D.	
44) MIBK	0.000		0	N.D.	
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
48) TOLUENE	0.000		0	N.D.	
49) 2-HEXANONE (MBK)	0.000		0	N.D.	
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.	
51) 1,2-DIBROMOETHANE	0.000		0	N.D.	
52) TETRACHLOROETHENE	0.000		0	N.D.	
53) TETRACHLOROETHENE (SIM)	17.010	166	5871	N.D.	
55) CHLOROBENZENE	0.000		0	N.D.	
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
57) ETHYLBENZENE	0.000		0	N.D.	
58) M/P-XYLENE	0.000		0	N.D.	
59) BROMOFORM	0.000		0	N.D.	
60) STYRENE	0.000		0	N.D.	
61) O-XYLENE	0.000		0	N.D.	
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
64) ISOPROPYLBENZENE	0.000		0	N.D.	
65) 4-ETHYLTOLUENE	0.000		0	N.D.	
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.	
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.	
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
69) BENZYL CHLORIDE	0.000		0	N.D.	
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
71) SEC-BUTYLBENZENE	0.000		0	N.D.	
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.	
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
74) N-BUTYLBENZENE	0.000		0	N.D.	
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.	
76) NAPHTHALENE	0.000		0	N.D.	
77) HEXACHLOROBUTADIENE	0.000		0	N.D.	

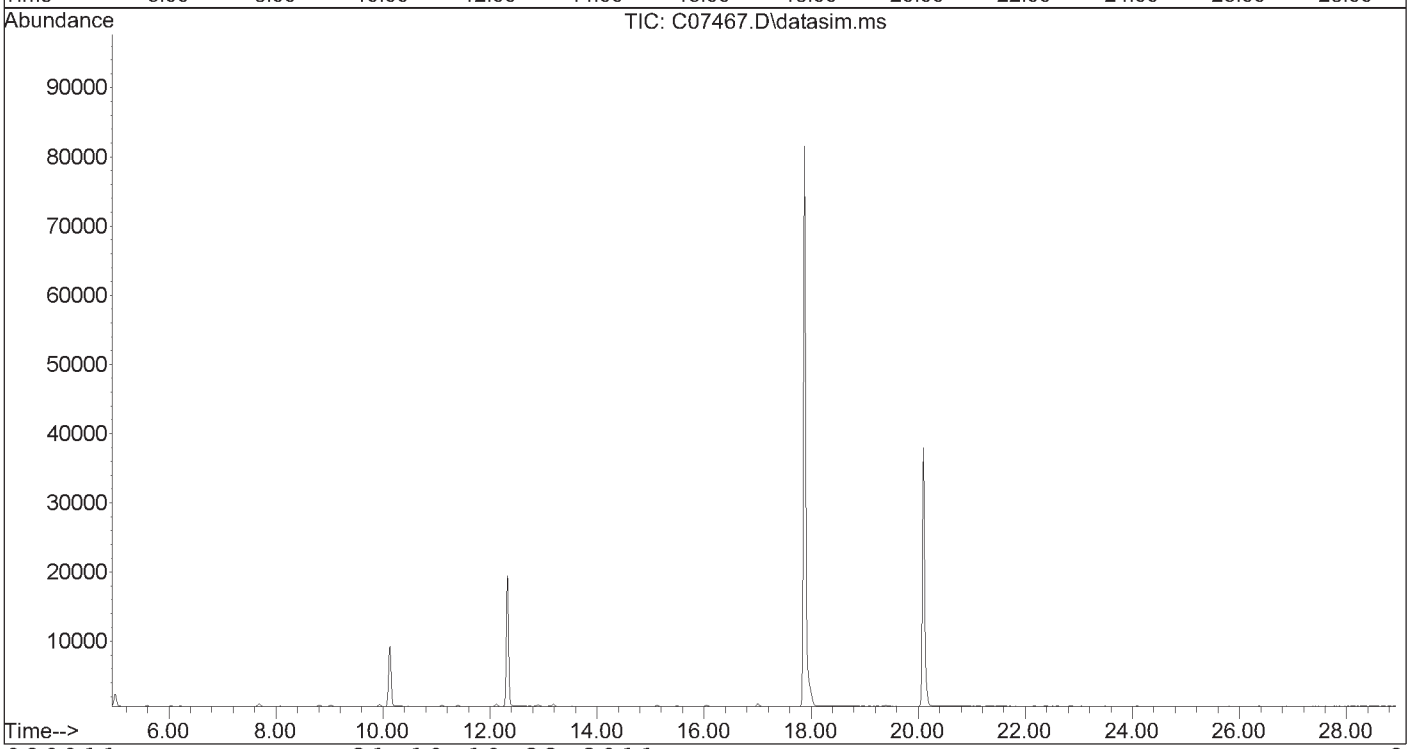
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07467.D
Acq On : 9 Mar 2011 11:18 am
Operator : KRL
Sample : 0.04ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 10 08:23:35 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07469.D
Acq On : 9 Mar 2011 12:38 pm
Operator : KRL
Sample : 0.1ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 10 08:26:45 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	10.134	128	425352	10.00	PPBv	#	0.00
37) 1,4-DIFLUROBENZENE	12.337	114	2034114	10.00	PPBv		0.00
54) CHLOROBENZENE-D5	17.882	54	256749	10.00	PPBv	#	0.00
System Monitoring Compounds							
63) 4-BROMOFLUOROBENZENE	20.104	95	827609	11.36	PPBv		0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 113.60%#				
Target Compounds							Qvalue
2) PROPENE	5.089	42	14836m	0.09	PPBv		
3) DICHLORODIFLUOROMETHANE	5.183	85	80971	0.13	PPBv	#	100
4) CHLOROMETHANE	5.357	50	44271	0.13	PPBv	#	100
5) FREON 114	5.468	85	106746	0.13	PPBv	#	100
6) VINYL CHLORIDE	5.608	62	32848	0.11	PPBv	#	100
7] VINYL CHLORIDE (SIM)	5.598	62	38552	0.10	PPBv	#	100
8) 1,3-BUTADIENE	5.762	54	27385	0.12	PPBv	#	100
9) BROMOMETHANE	6.058	94	36243	0.12	PPBv	#	100
10) CHLOROETHANE	6.228	64	15200m	0.11	PPBv		
11) ACETONE	6.838	58	20479	0.15	PPBv	#	100
12) TRICHLOROFLUOROMETHANE	7.034	101	117128	0.14	PPBv	#	100
13) ETHANOL	6.338	45	6037m	0.07	PPBv		
14) ACRYLONITRILE	5.754	53	15947	0.11	PPBv	#	100
15) 1,1-DICHLOROETHENE	7.710	96	35722	0.12	PPBv	#	100
16] 1,1-DICHLOROETHENE (SIM)	7.699	96	41799	0.10	PPBv	#	100
17) METHYLENE CHLORIDE	7.819	84	33055	0.13	PPBv	#	100
18) FREON 113	8.091	101	72182	0.14	PPBv	#	100
19) CARBON DISULFIDE	8.170	76	59698	0.11	PPBv		100
20) TRANS-1,2DICHLOROETHENE	8.830	96	22561	0.11	PPBv	#	100
21) 1,1-DICHLOROETHANE	9.034	63	41717	0.12	PPBv	#	100
22] 1,1-DICHLOROETHANE (SIM)	9.030	63	46114	0.12	PPBv	#	100
23) MTBE	9.112	73	33539	0.09	PPBv	#	100
24) IPA	7.096	45	51347	0.12	PPBv	#	100
25) 2-BUTANONE (MEK)	9.441	72	7587m	0.08	PPBv		
26) CIS-1,2-DICHLOROETHENE	9.930	96	24670	0.11	PPBv	#	100
27) HEXANE	10.183	57	35485	0.10	PPBv	#	100
28) ETHYL ACETATE	10.183	61	5486m	0.07	PPBv		
29) CHLOROFORM	10.268	83	53520	0.14	PPBv	#	100
30) TETRAHYDROFURAN	10.759	71	3582m	0.05	PPBv		
31) 1,2-DICHLOROETHANE	11.111	62	26962	0.12	PPBv	#	100
32) 1,1,1-TRICHLOROETHANE	11.410	97	44767	0.12	PPBv	#	100
33) BENZENE	11.944	78	76968	0.13	PPBv		100
34) CARBON TETRACHLORIDE	12.124	119	53635	0.12	PPBv	#	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07469.D
Acq On : 9 Mar 2011 12:38 pm
Operator : KRL
Sample : 0.1ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 10 08:26:45 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

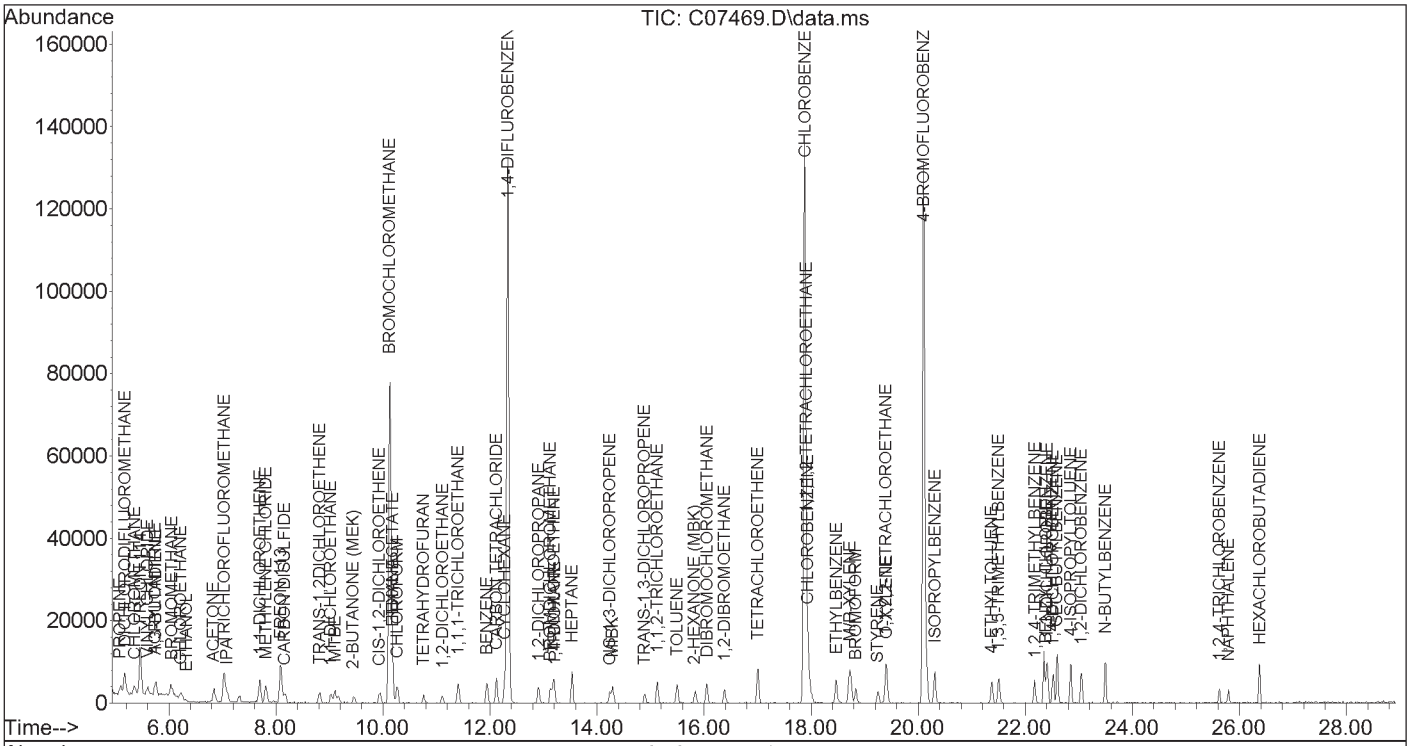
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35] CARBON TETRACHLORIDE (...	12.124	119	60038	0.14	PPBv #	100
36) CYCLOHEXANE	12.283	56	35223m	0.10	PPBv	
38) 1,2-DICHLOROPROPANE	12.913	63	29118	0.13	PPBv #	100
39) BROMDICHLOROMETHANE	13.131	83	43629	0.12	PPBv #	100
40) TRICHLOROETHENE	13.198	95	32726	0.11	PPBv #	100
41] TRICHLOROETHENE (SIM)	13.190	95	37838	0.12	PPBv #	100
42) 1,4-DIOXANE	13.217	88	11311m	0.12	PPBv	
43) HEPTANE	13.538	57	23983	0.11	PPBv #	100
44) MIBK	14.294	43	45643	0.08	PPBv #	100
45) CIS-1,3-DICHLOROPROPENE	14.244	75	26989	0.09	PPBv #	100
46) TRANS-1,3-DICHLOROPROPENE	14.898	75	20215	0.09	PPBv #	100
47) 1,1,2-TRICHLOROETHANE	15.128	83	23973	0.11	PPBv #	100
48) TOLUENE	15.500	91	78078	0.11	PPBv #	100
49) 2-HEXANONE (MBK)	15.826	58	13390m	0.06	PPBv	
50) DIBROMOCHLOROMETHANE	16.059	129	42106	0.10	PPBv #	100
51) 1,2-DIBROMOETHANE	16.384	107	40214	0.11	PPBv #	100
52) TETRACHLOROETHENE	17.008	166	45088	0.12	PPBv #	100
53] TETRACHLOROETHENE (SIM)	17.009	166	54201	0.13	PPBv #	100
55) CHLOROBENZENE	17.942	112	93118	0.16	PPBv #	100
56) 1,1,1,2-TETRACHLOROETHANE	17.913	135	10208m	0.14	PPBv	
57) ETHYLBENZENE	18.470	91	79854	0.11	PPBv #	100
58) M/P-XYLENE	18.728	106	75777	0.22	PPBv #	100
59) BROMOFORM	18.833	173	19359	0.07	PPBv #	100
60) STYRENE	19.245	104	39417m	0.10	PPBv	
61) O-XYLENE	19.415	106	35966	0.11	PPBv #	100
62) 1,1,2,2-TETRACHLOROETHANE	19.397	83	54127	0.14	PPBv #	100
64) ISOPROPYLBENZENE	20.315	105	102904	0.13	PPBv #	100
65) 4-ETHYLTOLUENE	21.379	105	77511	0.10	PPBv #	100
66) 1,3,5-TRIMETHYLBENZENE	21.509	105	78977	0.13	PPBv #	100
67) 1,2,4-TRIMETHYLBENZENE	22.179	105	57789	0.10	PPBv #	100
68) 1,3-DICHLOROBENZENE	22.420	146	75212	0.15	PPBv #	100
69) BENZYL CHLORIDE	22.393	91	44367	0.13	PPBv #	100
70) 1,4-DICHLOROBENZENE	22.523	146	64100	0.14	PPBv #	100
71) SEC-BUTYLBENZENE	22.600	105	129876	0.12	PPBv #	100
72) 4-ISOPROPYLTOLUENE	22.855	119	99715	0.11	PPBv #	100
73) 1,2-DICHLOROBENZENE	23.050	146	61577	0.14	PPBv #	100
74) N-BUTYLBENZENE	23.498	91	81639	0.11	PPBv #	100
75) 1,2,4-TRICHLOROBENZENE	25.630	180	20202	0.10	PPBv #	100
76) NAPHTHALENE	25.799	128	47691	0.08	PPBv	100
77) HEXACHLOROBUTADIENE	26.385	225	23730m	0.13	PPBv	

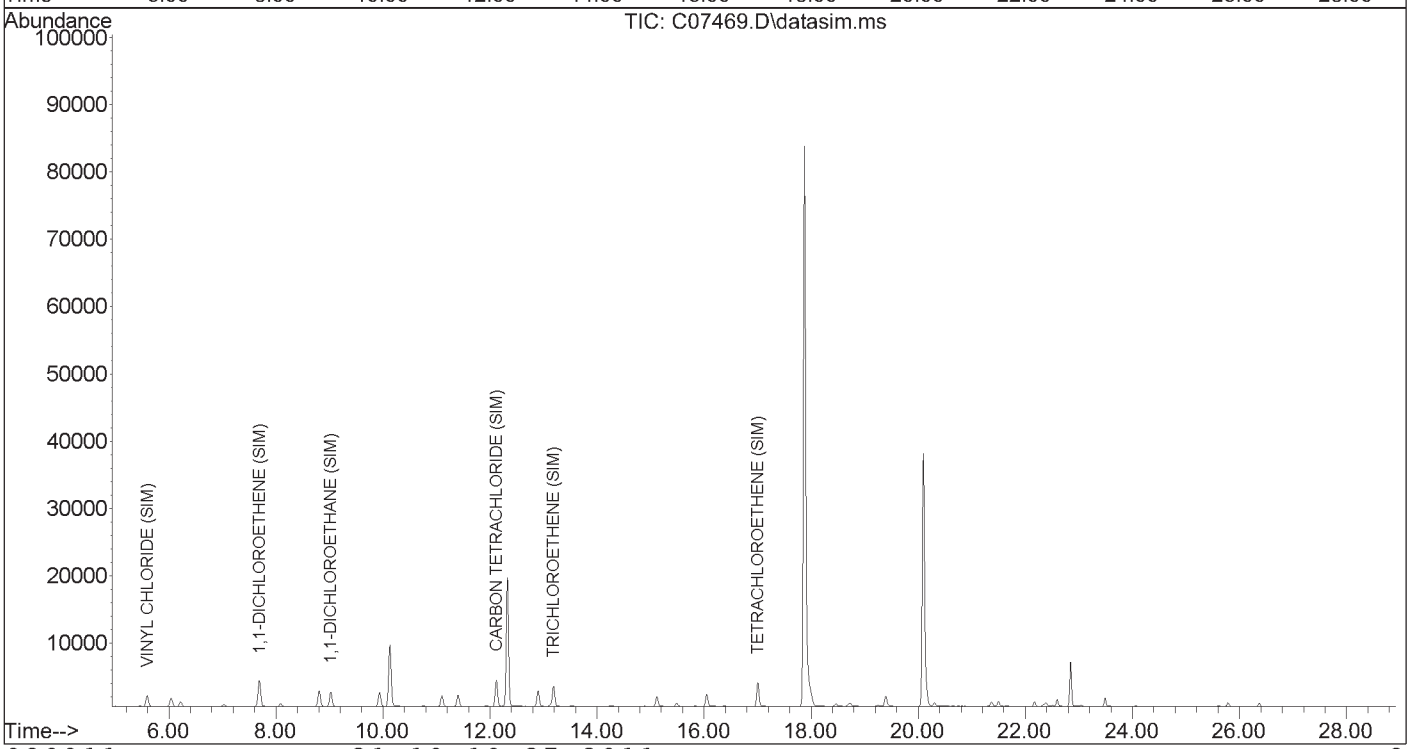
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07469.D
Acq On : 9 Mar 2011 12:38 pm
Operator : KRL
Sample : 0.1ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 10 08:26:45 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07470.D
Acq On : 9 Mar 2011 1:19 pm
Operator : KRL
Sample : 0.2ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 10 08:27:44 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	10.132	128	415387	10.00	PPBv	#	0.00
37) 1,4-DIFLUROBENZENE	12.336	114	2073401	10.00	PPBv		0.00
54) CHLOROBENZENE-D5	17.882	54	244275	10.00	PPBv	#	0.00
System Monitoring Compounds							
63) 4-BROMOFLUOROBENZENE	20.103	95	842956	12.17	PPBv		0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 121.70%#				
Target Compounds							Qvalue
2) PROPENE	5.095	42	27283	0.18	PPBv	#	100
3) DICHLORODIFLUOROMETHANE	5.181	85	139724	0.24	PPBv	#	100
4) CHLOROMETHANE	5.359	50	67713	0.20	PPBv	#	100
5) FREON 114	5.468	85	178884	0.23	PPBv	#	100
6) VINYL CHLORIDE	5.609	62	56814	0.20	PPBv	#	100
7] VINYL CHLORIDE (SIM)	5.596	62	64776	0.21	PPBv	#	100
8) 1,3-BUTADIENE	5.754	54	46635	0.21	PPBv	#	100
9) BROMOMETHANE	6.043	94	60361	0.21	PPBv	#	100
10) CHLOROETHANE	6.233	64	28705	0.21	PPBv	#	100
11) ACETONE	6.846	58	29720	0.22	PPBv	#	100
12) TRICHLOROFLUOROMETHANE	7.030	101	187319	0.23	PPBv	#	100
13) ETHANOL	6.324	45	16001m	0.19	PPBv		
14) ACRYLONITRILE	5.752	53	28857	0.20	PPBv	#	100
15) 1,1-DICHLOROETHENE	7.703	96	58256	0.19	PPBv	#	100
16] 1,1-DICHLOROETHENE (SIM)	7.697	96	69359	0.20	PPBv	#	100
17) METHYLENE CHLORIDE	7.813	84	52264	0.20	PPBv	#	100
18) FREON 113	8.093	101	110869	0.22	PPBv	#	100
19) CARBON DISULFIDE	8.169	76	101411	0.19	PPBv		100
20) TRANS-1,2DICHLOROETHENE	8.817	96	40613	0.20	PPBv	#	100
21) 1,1-DICHLOROETHANE	9.036	63	70983	0.21	PPBv	#	100
22] 1,1-DICHLOROETHANE (SIM)	9.028	63	77550	0.21	PPBv	#	100
23) MTBE	9.096	73	69839	0.19	PPBv	#	100
24) IPA	7.087	45	80861	0.20	PPBv	#	100
25) 2-BUTANONE (MEK)	9.455	72	16032m	0.18	PPBv		
26) CIS-1,2-DICHLOROETHENE	9.947	96	38907	0.18	PPBv	#	100
27) HEXANE	10.176	57	55189	0.16	PPBv	#	100
28) ETHYL ACETATE	10.169	61	11980m	0.17	PPBv		
29) CHLOROFORM	10.272	83	85055	0.23	PPBv	#	100
30) TETRAHYDROFURAN	10.759	71	11986m	0.17	PPBv		
31) 1,2-DICHLOROETHANE	11.110	62	50034	0.22	PPBv	#	100
32) 1,1,1-TRICHLOROETHANE	11.410	97	81176	0.22	PPBv	#	100
33) BENZENE	11.952	78	121413	0.20	PPBv		100
34) CARBON TETRACHLORIDE	12.128	119	77158	0.18	PPBv	#	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07470.D
Acq On : 9 Mar 2011 1:19 pm
Operator : KRL
Sample : 0.2ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 10 08:27:44 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

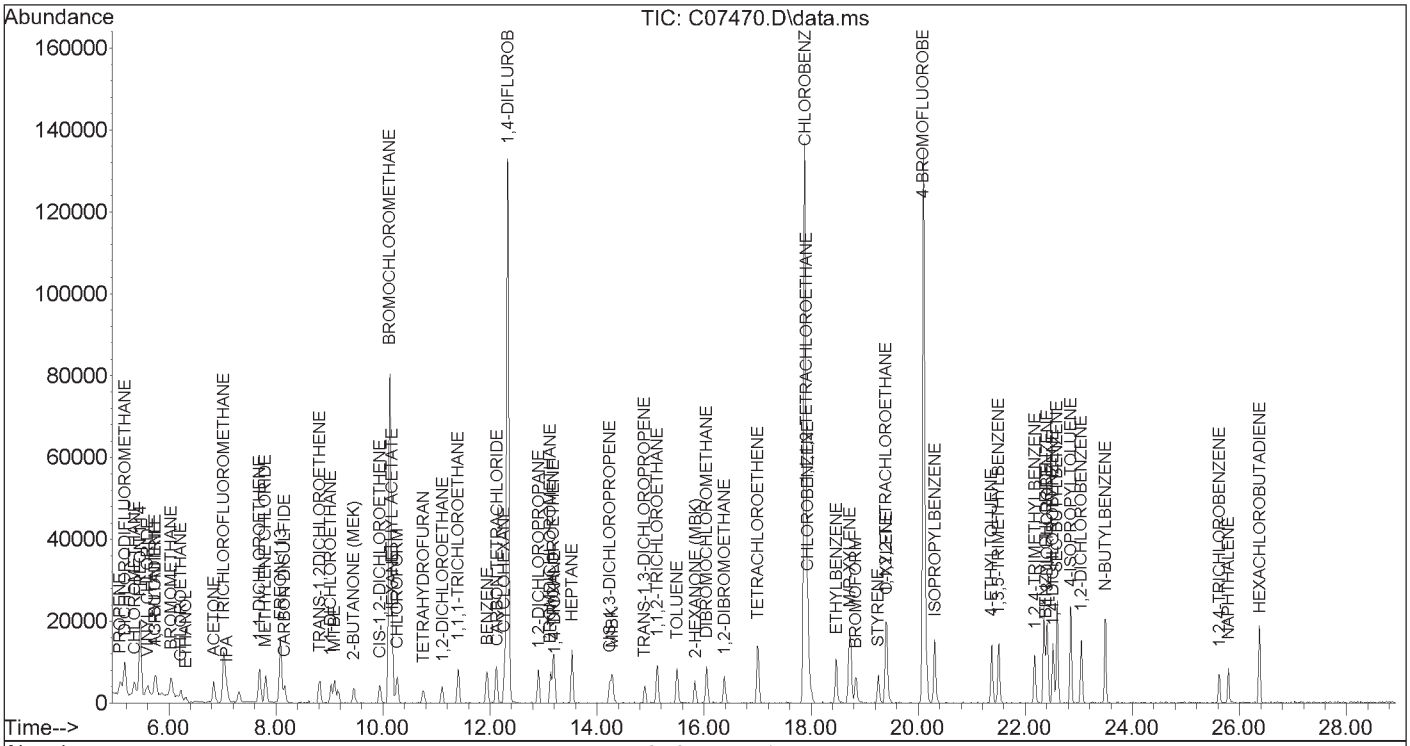
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.123	119	102789	0.25	PPBv	#	100
36) CYCLOHEXANE	12.270	56	50759m	0.15	PPBv		
38) 1,2-DICHLOROPROPANE	12.913	63	44665	0.19	PPBv	#	100
39) BROMDICHLOROMETHANE	13.137	83	84229	0.22	PPBv	#	100
40) TRICHLOROETHENE	13.191	95	51059	0.18	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.190	95	65889	0.22	PPBv	#	100
42) 1,4-DIOXANE	13.212	88	19125	0.20	PPBv	#	100
43) HEPTANE	13.534	57	37001	0.17	PPBv	#	100
44) MIBK	14.288	43	91334	0.16	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.245	75	52650	0.18	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.894	75	31907	0.14	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.132	83	50893	0.24	PPBv	#	100
48) TOLUENE	15.492	91	124086	0.17	PPBv	#	100
49) 2-HEXANONE (MBK)	15.837	58	32679	0.15	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.052	129	94976	0.21	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.382	107	81467	0.21	PPBv	#	100
52) TETRACHLOROETHENE	17.004	166	71796	0.19	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.009	166	94045	0.22	PPBv	#	100
55) CHLOROBENZENE	17.943	112	147708	0.27	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.909	135	20855	0.30	PPBv	#	100
57) ETHYLBENZENE	18.472	91	149573	0.22	PPBv	#	100
58) M/P-XYLENE	18.718	106	169064	0.52	PPBv	#	100
59) BROMOFORM	18.833	173	67505m	0.26	PPBv		
60) STYRENE	19.257	104	72351	0.19	PPBv	#	100
61) O-XYLENE	19.416	106	68374	0.23	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.400	83	104986	0.28	PPBv	#	100
64) ISOPROPYLBENZENE	20.314	105	198283	0.26	PPBv	#	100
65) 4-ETHYLTOLUENE	21.379	105	164186	0.23	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.511	105	156088	0.26	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.182	105	122618	0.23	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.416	146	149745	0.31	PPBv	#	100
69) BENZYL CHLORIDE	22.390	91	80140	0.25	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.522	146	123609	0.28	PPBv	#	100
71) SEC-BUTYLBENZENE	22.601	105	266213	0.27	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.854	119	200389	0.23	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.054	146	121938	0.30	PPBv	#	100
74) N-BUTYLBENZENE	23.500	91	174954	0.25	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.631	180	48372	0.25	PPBv	#	100
76) NAPHTHALENE	25.801	128	109109	0.19	PPBv		100
77) HEXACHLOROBUTADIENE	26.380	225	55832	0.32	PPBv		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07470.D
Acq On : 9 Mar 2011 1:19 pm
Operator : KRL
Sample : 0.2ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 10 08:27:44 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07471.D
Acq On : 9 Mar 2011 2:00 pm
Operator : KRL
Sample : 0.5ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 10 08:28:53 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	10.133	128	416013	10.00	PPBv	#	0.00
37) 1,4-DIFLUROBENZENE	12.335	114	2077503	10.00	PPBv		0.00
54) CHLOROBENZENE-D5	17.880	54	260117	10.00	PPBv	#	0.00
System Monitoring Compounds							
63) 4-BROMOFLUOROBENZENE	20.103	95	877223	11.89	PPBv		0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 118.90%#				
Target Compounds							Qvalue
2) PROPENE	5.098	42	71262	0.46	PPBv	#	100
3) DICHLORODIFLUOROMETHANE	5.176	85	299748	0.50	PPBv	#	100
4) CHLOROMETHANE	5.355	50	159942	0.47	PPBv	#	100
5) FREON 114	5.467	85	377620	0.48	PPBv	#	100
6) VINYL CHLORIDE	5.606	62	135177	0.48	PPBv	#	100
7] VINYL CHLORIDE (SIM)	5.595	62	144406	0.51	PPBv	#	100
8) 1,3-BUTADIENE	5.754	54	109938	0.50	PPBv	#	100
9) BROMOMETHANE	6.049	94	151912	0.53	PPBv	#	100
10) CHLOROETHANE	6.229	64	64907	0.46	PPBv	#	100
11) ACETONE	6.839	58	69514	0.51	PPBv	#	100
12) TRICHLOROFLUOROMETHANE	7.033	101	417286	0.51	PPBv	#	100
13) ETHANOL	6.317	45	36175	0.44	PPBv	#	100
14) ACRYLONITRILE	5.749	53	69372	0.48	PPBv	#	100
15) 1,1-DICHLOROETHENE	7.701	96	138345	0.46	PPBv	#	100
16] 1,1-DICHLOROETHENE (SIM)	7.695	96	155690	0.50	PPBv	#	100
17) METHYLENE CHLORIDE	7.812	84	115784	0.45	PPBv	#	100
18) FREON 113	8.088	101	237207	0.48	PPBv	#	100
19) CARBON DISULFIDE	8.163	76	248324	0.47	PPBv		100
20) TRANS-1,2DICHLOROETHENE	8.819	96	113262	0.56	PPBv	#	100
21) 1,1-DICHLOROETHANE	9.033	63	153696	0.45	PPBv	#	100
22] 1,1-DICHLOROETHANE (SIM)	9.026	63	177206	0.51	PPBv	#	100
23) MTBE	9.095	73	171819	0.46	PPBv	#	100
24) IPA	7.075	45	190129	0.46	PPBv	#	100
25) 2-BUTANONE (MEK)	9.447	72	46784	0.51	PPBv	#	100
26) CIS-1,2-DICHLOROETHENE	9.945	96	96676	0.45	PPBv	#	100
27) HEXANE	10.177	57	154031	0.45	PPBv	#	100
28) ETHYL ACETATE	10.155	61	25839m	0.36	PPBv		
29) CHLOROFORM	10.271	83	195704	0.52	PPBv	#	100
30) TETRAHYDROFURAN	10.755	71	30110	0.44	PPBv	#	100
31) 1,2-DICHLOROETHANE	11.115	62	100646	0.45	PPBv	#	100
32) 1,1,1-TRICHLOROETHANE	11.411	97	177963	0.49	PPBv	#	100
33) BENZENE	11.946	78	310865	0.52	PPBv		100
34) CARBON TETRACHLORIDE	12.127	119	225488	0.54	PPBv	#	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07471.D
Acq On : 9 Mar 2011 2:00 pm
Operator : KRL
Sample : 0.5ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 10 08:28:53 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

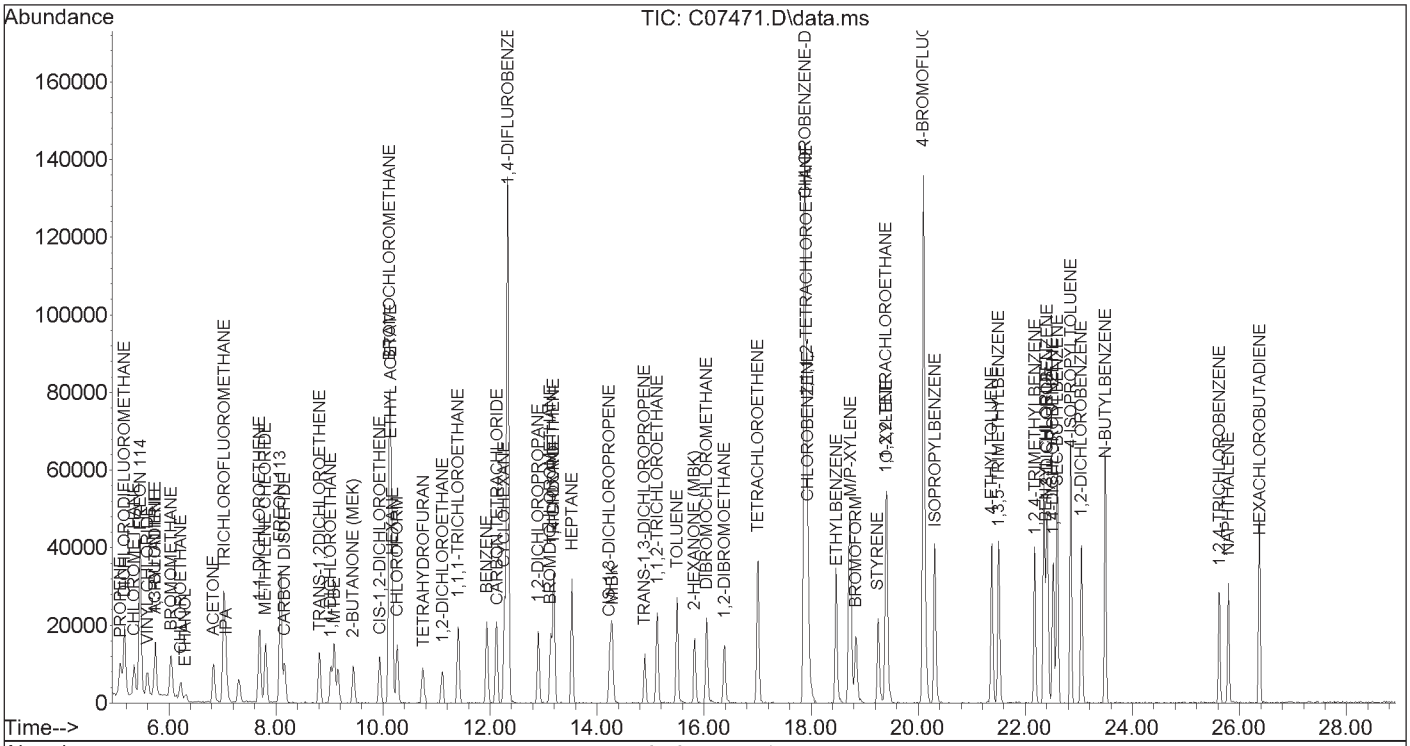
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.122	119	243028	0.59	PPBv	#	100
36) CYCLOHEXANE	12.270	56	157049m	0.45	PPBv		
38) 1,2-DICHLOROPROPANE	12.905	63	98849	0.42	PPBv	#	100
39) BROMDICHLOROMETHANE	13.135	83	170191	0.45	PPBv	#	100
40) TRICHLOROETHENE	13.192	95	142613	0.49	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.189	95	163968	0.56	PPBv	#	100
42) 1,4-DIOXANE	13.196	88	45058	0.48	PPBv	#	100
43) HEPTANE	13.535	57	93809	0.42	PPBv	#	100
44) MIBK	14.282	43	227607	0.41	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.240	75	121410	0.42	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.897	75	97583	0.43	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.127	83	104837	0.49	PPBv	#	100
48) TOLUENE	15.499	91	357250	0.49	PPBv	#	100
49) 2-HEXANONE (MBK)	15.828	58	86362	0.39	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.052	129	233924	0.52	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.383	107	199217	0.52	PPBv	#	100
52) TETRACHLOROETHENE	17.008	166	185769	0.48	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.009	166	232383	0.55	PPBv	#	100
55) CHLOROBENZENE	17.941	112	365404	0.63	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.915	135	44492	0.61	PPBv	#	100
57) ETHYLBENZENE	18.469	91	418532	0.57	PPBv	#	100
58) M/P-XYLENE	18.732	106	420302	1.22	PPBv	#	100
59) BROMOFORM	18.833	173	176904m	0.65	PPBv		
60) STYRENE	19.245	104	246734m	0.61	PPBv		
61) O-XYLENE	19.415	106	218522	0.68	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.399	83	252792	0.62	PPBv	#	100
64) ISOPROPYLBENZENE	20.313	105	527532	0.65	PPBv	#	100
65) 4-ETHYLTOLUENE	21.373	105	466340m	0.60	PPBv		
66) 1,3,5-TRIMETHYLBENZENE	21.508	105	407926	0.64	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.181	105	360171	0.64	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.416	146	348252	0.68	PPBv	#	100
69) BENZYL CHLORIDE	22.390	91	235308	0.70	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.525	146	320544	0.68	PPBv	#	100
71) SEC-BUTYLBENZENE	22.602	105	674519	0.64	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.853	119	605932	0.65	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.053	146	311173	0.72	PPBv	#	100
74) N-BUTYLBENZENE	23.499	91	498424	0.66	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.629	180	147044	0.71	PPBv	#	100
76) NAPHTHALENE	25.799	128	395957	0.65	PPBv		100
77) HEXACHLOROBUTADIENE	26.378	225	141148	0.75	PPBv		100

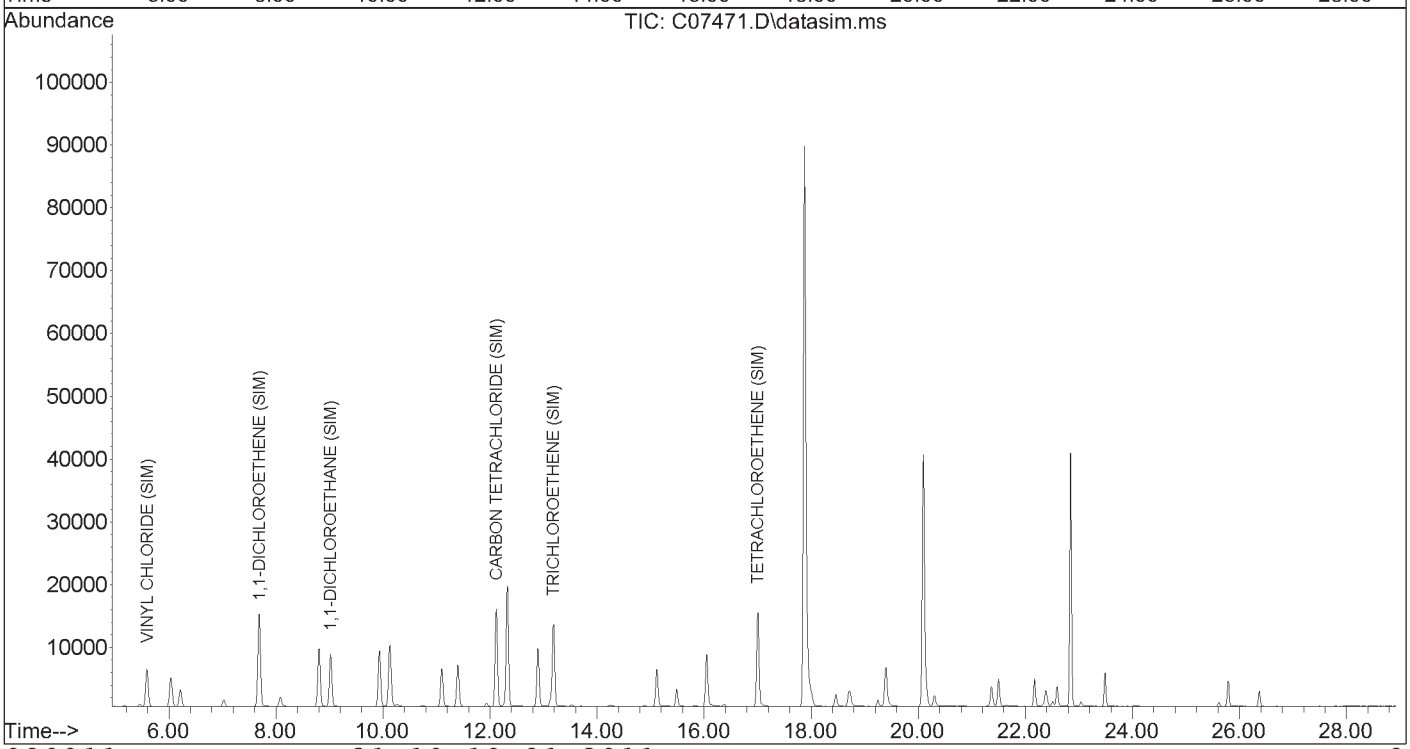
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07471.D
Acq On : 9 Mar 2011 2:00 pm
Operator : KRL
Sample : 0.5ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 10 08:28:53 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07472.D
Acq On : 9 Mar 2011 2:42 pm
Operator : KRL
Sample : 1.0ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 10 08:29:48 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	10.132	128	432146	10.00	PPBv	#	0.00
37) 1,4-DIFLUROBENZENE	12.335	114	2269202	10.00	PPBv		0.00
54) CHLOROBENZENE-D5	17.883	54	272367	10.00	PPBv	#	0.00
System Monitoring Compounds							
63) 4-BROMOFLUOROBENZENE	20.103	95	959722	12.42	PPBv		0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 124.20%#				
Target Compounds							Qvalue
2) PROPENE	5.103	42	132754	0.83	PPBv	#	100
3) DICHLORODIFLUOROMETHANE	5.178	85	608272	0.99	PPBv	#	100
4) CHLOROMETHANE	5.358	50	293789	0.83	PPBv	#	100
5) FREON 114	5.467	85	740868	0.91	PPBv	#	100
6) VINYL CHLORIDE	5.603	62	252257	0.87	PPBv	#	100
7] VINYL CHLORIDE (SIM)	5.595	62	275970	0.96	PPBv	#	100
8) 1,3-BUTADIENE	5.752	54	213908	0.94	PPBv	#	100
9) BROMOMETHANE	6.047	94	268563	0.90	PPBv	#	100
10) CHLOROETHANE	6.223	64	124747	0.86	PPBv	#	100
11) ACETONE	6.834	58	130759	0.93	PPBv	#	100
12) TRICHLOROFLUOROMETHANE	7.034	101	768720	0.91	PPBv	#	100
13) ETHANOL	6.319	45	84459	0.99	PPBv	#	100
14) ACRYLONITRILE	5.749	53	140867	0.93	PPBv	#	100
15) 1,1-DICHLOROETHENE	7.698	96	274703	0.88	PPBv	#	100
16] 1,1-DICHLOROETHENE (SIM)	7.696	96	306048	0.99	PPBv	#	100
17) METHYLENE CHLORIDE	7.813	84	221318	0.83	PPBv	#	100
18) FREON 113	8.091	101	480531	0.93	PPBv	#	100
19) CARBON DISULFIDE	8.168	76	547060	0.99	PPBv		100
20) TRANS-1,2DICHLOROETHENE	8.816	96	217466	1.03	PPBv	#	100
21) 1,1-DICHLOROETHANE	9.033	63	319365	0.90	PPBv	#	100
22] 1,1-DICHLOROETHANE (SIM)	9.027	63	349542	1.00	PPBv	#	100
23) MTBE	9.088	73	360648	0.94	PPBv	#	100
24) IPA	7.073	45	404548	0.94	PPBv	#	100
25) 2-BUTANONE (MEK)	9.446	72	97133	1.02	PPBv	#	100
26) CIS-1,2-DICHLOROETHENE	9.946	96	224398	0.99	PPBv	#	100
27) HEXANE	10.175	57	317875	0.89	PPBv	#	100
28) ETHYL ACETATE	10.169	61	66337m	0.88	PPBv		
29) CHLOROFORM	10.268	83	395822	1.01	PPBv	#	100
30) TETRAHYDROFURAN	10.740	71	68394	0.95	PPBv	#	100
31) 1,2-DICHLOROETHANE	11.109	62	216542	0.93	PPBv	#	100
32) 1,1,1-TRICHLOROETHANE	11.410	97	375028	1.00	PPBv	#	100
33) BENZENE	11.947	78	628456	1.01	PPBv		100
34) CARBON TETRACHLORIDE	12.124	119	447010	1.02	PPBv	#	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07472.D
Acq On : 9 Mar 2011 2:42 pm
Operator : KRL
Sample : 1.0ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 10 08:29:48 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

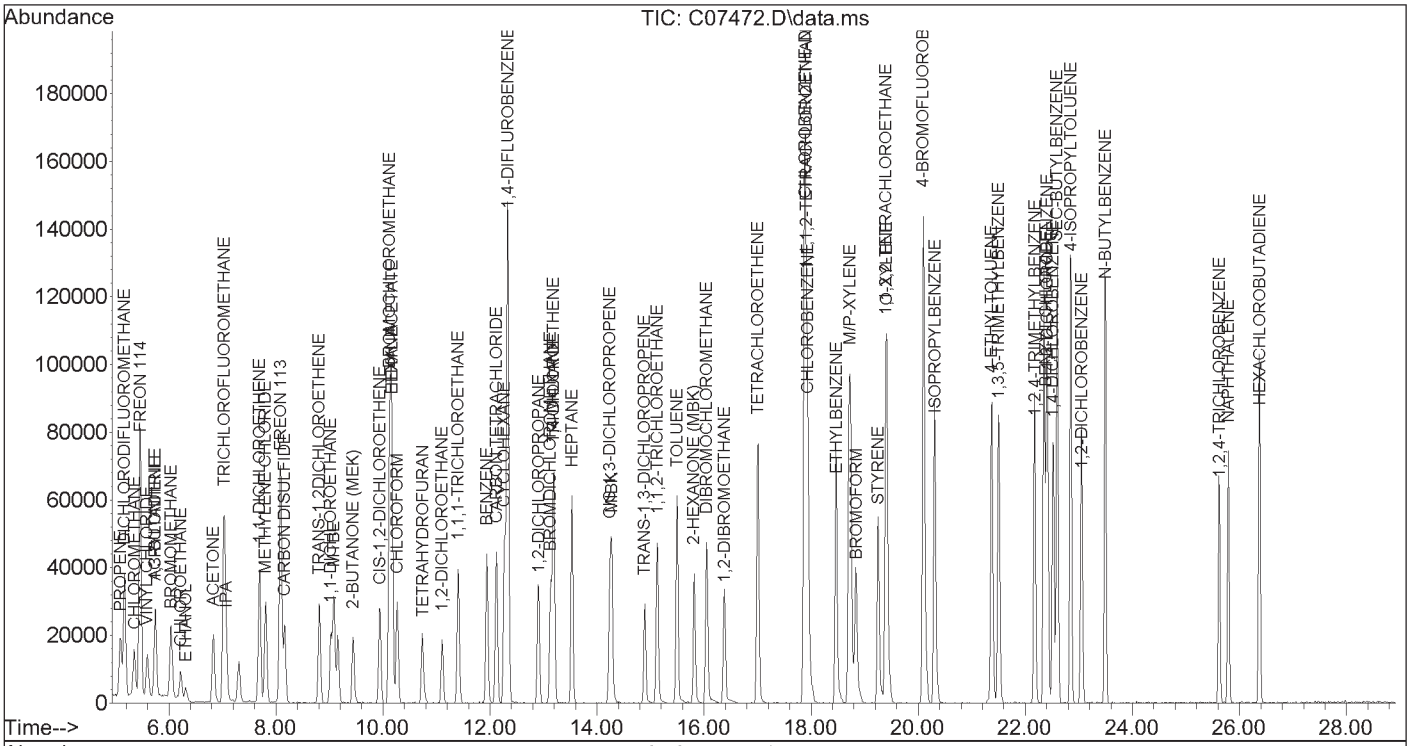
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.123	119	493385	1.15	PPBv	#	100
36) CYCLOHEXANE	12.270	56	324806m	0.90	PPBv		
38) 1,2-DICHLOROPROPANE	12.909	63	211762	0.83	PPBv	#	100
39) BROMDICHLOROMETHANE	13.138	83	376101	0.91	PPBv	#	100
40) TRICHLOROETHENE	13.192	95	300128	0.94	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.189	95	333778	1.05	PPBv	#	100
42) 1,4-DIOXANE	13.194	88	100575	0.98	PPBv	#	100
43) HEPTANE	13.536	57	191730	0.78	PPBv	#	100
44) MIBK	14.278	43	467289	0.77	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.241	75	282651	0.89	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.896	75	233318	0.94	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.130	83	213028	0.91	PPBv	#	100
48) TOLUENE	15.499	91	782903	0.98	PPBv	#	100
49) 2-HEXANONE (MBK)	15.818	58	205585	0.85	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.046	129	486845m	0.99	PPBv		
51) 1,2-DIBROMOETHANE	16.383	107	412597	0.99	PPBv	#	100
52) TETRACHLOROETHENE	17.009	166	399433	0.94	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.010	166	486876	1.06	PPBv	#	100
55) CHLOROBENZENE	17.939	112	722914	1.19	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.916	135	114735	1.50	PPBv	#	100
57) ETHYLBENZENE	18.471	91	949181	1.23	PPBv	#	100
58) M/P-XYLENE	18.723	106	910203	2.52	PPBv	#	100
59) BROMOFORM	18.842	173	394695	1.38	PPBv	#	100
60) STYRENE	19.256	104	536719	1.26	PPBv	#	100
61) O-XYLENE	19.416	106	432688	1.28	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.398	83	561988	1.32	PPBv	#	100
64) ISOPROPYLBENZENE	20.312	105	1115367	1.32	PPBv	#	100
65) 4-ETHYLTOLUENE	21.376	105	1085977	1.34	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.508	105	905584	1.37	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.179	105	837287	1.42	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.416	146	700765	1.31	PPBv	#	100
69) BENZYL CHLORIDE	22.393	91	524567	1.50	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.526	146	656878	1.32	PPBv	#	100
71) SEC-BUTYLBENZENE	22.602	105	1471273	1.33	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.854	119	1292136	1.32	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.055	146	609943	1.34	PPBv	#	100
74) N-BUTYLBENZENE	23.498	91	1044509	1.32	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.626	180	312855	1.44	PPBv	#	100
76) NAPHTHALENE	25.799	128	934392	1.46	PPBv		100
77) HEXACHLOROBUTADIENE	26.379	225	290064	1.47	PPBv		100

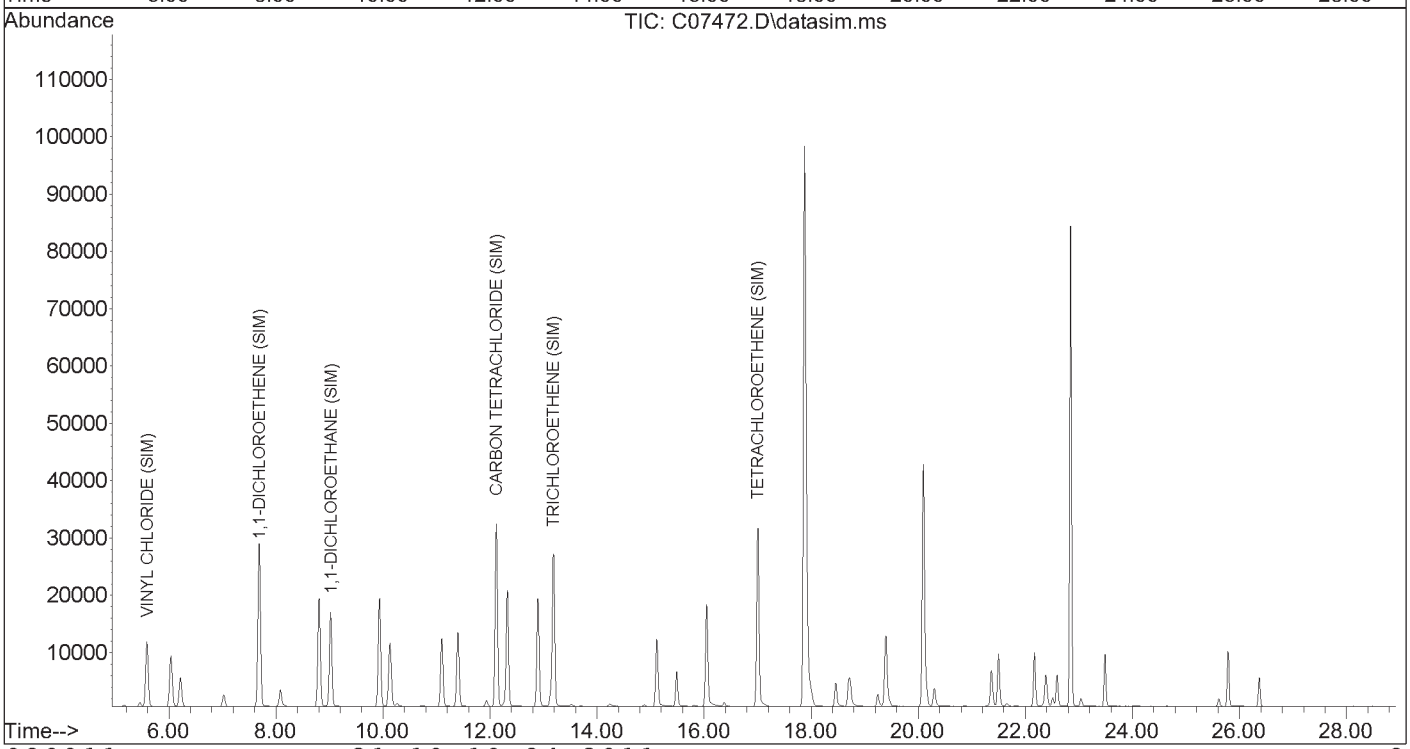
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07472.D
Acq On : 9 Mar 2011 2:42 pm
Operator : KRL
Sample : 1.0ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 10 08:29:48 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07473.D
Acq On : 9 Mar 2011 3:25 pm
Operator : KRL
Sample : 2.0ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 10 08:30:38 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.132	128	482227	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.334	114	2373284	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.879	54	309064	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.103	95	1051117	11.99	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 119.90%#			
Target Compounds						Qvalue
2) PROPENE	5.092	42	286605	1.60	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.174	85	1204994	1.75	PPBv #	100
4) CHLOROMETHANE	5.357	50	632211	1.60	PPBv #	100
5) FREON 114	5.464	85	1496167	1.64	PPBv #	100
6) VINYL CHLORIDE	5.600	62	546413	1.69	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.592	62	581548	1.85	PPBv #	100
8) 1,3-BUTADIENE	5.748	54	428023	1.69	PPBv #	100
9) BROMOMETHANE	6.044	94	553722	1.67	PPBv #	100
10) CHLOROETHANE	6.224	64	261992	1.61	PPBv #	100
11) ACETONE	6.830	58	273027	1.73	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.032	101	1611167	1.71	PPBv #	100
13) ETHANOL	6.317	45	173119	1.81	PPBv #	100
14) ACRYLONITRILE	5.746	53	292132	1.73	PPBv #	100
15) 1,1-DICHLOROETHENE	7.697	96	536448	1.54	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.695	96	625377	1.85	PPBv #	100
17) METHYLENE CHLORIDE	7.812	84	449098	1.51	PPBv #	100
18) FREON 113	8.088	101	1025002	1.78	PPBv #	100
19) CARBON DISULFIDE	8.166	76	1176189	1.90	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.818	96	462679	1.96	PPBv #	100
21) 1,1-DICHLOROETHANE	9.031	63	647652	1.63	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.026	63	720264	1.85	PPBv #	100
23) MTBE	9.085	73	820995	1.91	PPBv #	100
24) IPA	7.066	45	789726	1.65	PPBv #	100
25) 2-BUTANONE (MEK)	9.440	72	213353	2.02	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.943	96	470254	1.87	PPBv #	100
27) HEXANE	10.174	57	667932	1.67	PPBv #	100
28) ETHYL ACETATE	10.160	61	138633	1.65	PPBv #	100
29) CHLOROFORM	10.270	83	778201	1.78	PPBv #	100
30) TETRAHYDROFURAN	10.734	71	163885	2.04	PPBv #	100
31) 1,2-DICHLOROETHANE	11.108	62	430186	1.65	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.410	97	765223	1.82	PPBv #	100
33) BENZENE	11.946	78	1323393	1.90	PPBv	100
34) CARBON TETRACHLORIDE	12.122	119	927906	1.90	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07473.D
Acq On : 9 Mar 2011 3:25 pm
Operator : KRL
Sample : 2.0ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 10 08:30:38 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

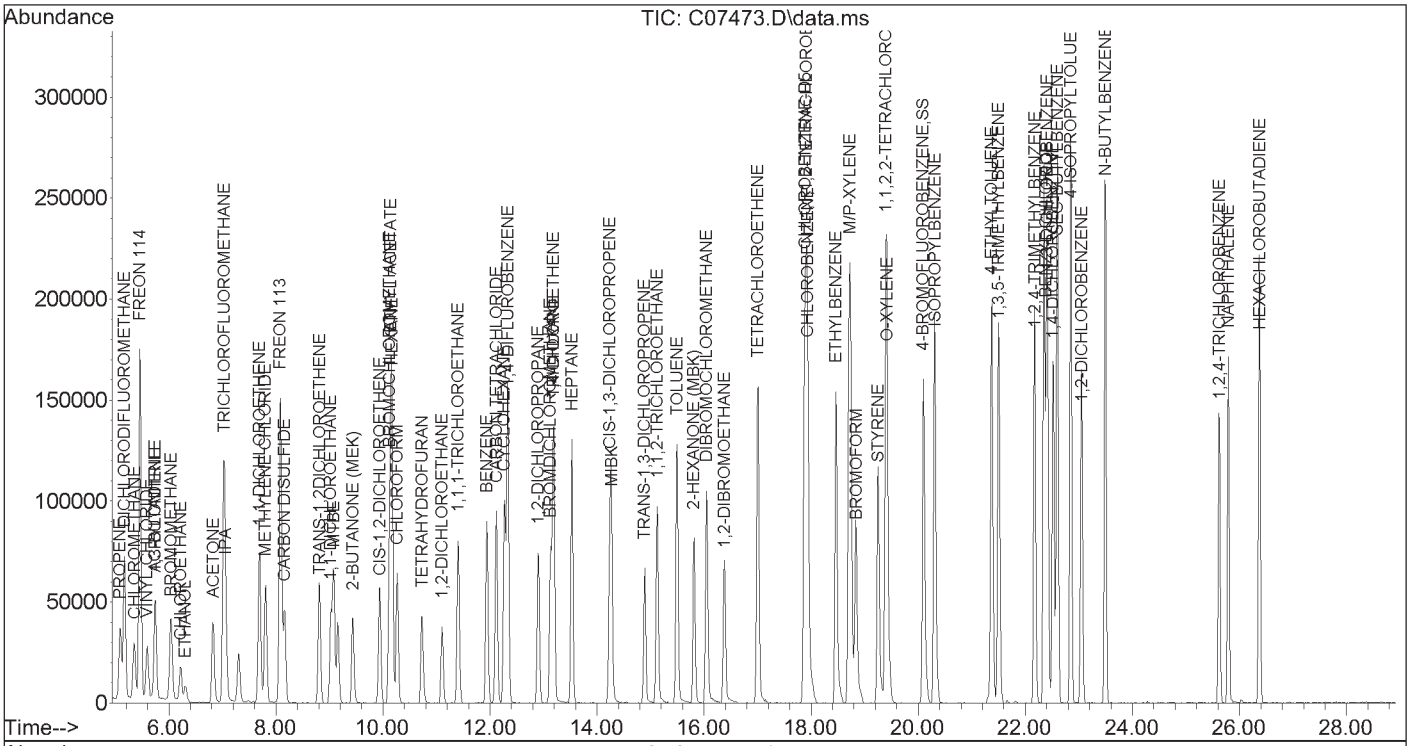
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.122	119	1041435	2.17	PPBv	#	100
36) CYCLOHEXANE	12.270	56	707737m	1.75	PPBv		
38) 1,2-DICHLOROPROPANE	12.906	63	450821	1.68	PPBv	#	100
39) BROMDICHLOROMETHANE	13.137	83	791640	1.82	PPBv	#	100
40) TRICHLOROETHENE	13.191	95	601697	1.80	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.188	95	701735	2.11	PPBv	#	100
42) 1,4-DIOXANE	13.190	88	257486m	2.40	PPBv		
43) HEPTANE	13.535	57	426178	1.67	PPBv	#	100
44) MIBK	14.273	43	1047594	1.64	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.240	75	657628	1.97	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.895	75	539992	2.09	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.128	83	460854	1.88	PPBv	#	100
48) TOLUENE	15.496	91	1722021	2.05	PPBv	#	100
49) 2-HEXANONE (MBK)	15.815	58	469686	1.86	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.052	129	1081084	2.09	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.384	107	925763	2.11	PPBv	#	100
52) TETRACHLOROETHENE	17.008	166	845935	1.91	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.009	166	1031573	2.15	PPBv	#	100
55) CHLOROBENZENE	17.942	112	1507913	2.19	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.914	135	223298	2.57	PPBv	#	100
57) ETHYLBENZENE	18.469	91	2096943	2.40	PPBv	#	100
58) M/P-XYLENE	18.726	106	1987022	4.85	PPBv	#	100
59) BROMOFORM	18.842	173	851507	2.62	PPBv	#	100
60) STYRENE	19.256	104	1224594	2.54	PPBv	#	100
61) O-XYLENE	19.417	106	939067	2.45	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.398	83	1140836	2.37	PPBv	#	100
64) ISOPROPYLBENZENE	20.312	105	2509886	2.61	PPBv	#	100
65) 4-ETHYLTOLUENE	21.377	105	2512296	2.73	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.507	105	1994942	2.65	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.179	105	1877659	2.80	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.417	146	1450525	2.39	PPBv	#	100
69) BENZYL CHLORIDE	22.393	91	1177113	2.96	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.526	146	1441892	2.56	PPBv	#	100
71) SEC-BUTYLBENZENE	22.603	105	3202968	2.56	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.854	119	2804412	2.53	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.055	146	1274666	2.47	PPBv	#	100
74) N-BUTYLBENZENE	23.499	91	2273417	2.53	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.628	180	709428	2.88	PPBv	#	100
76) NAPHTHALENE	25.798	128	2220482	3.06	PPBv		100
77) HEXACHLOROBUTADIENE	26.378	225	607482	2.71	PPBv		100

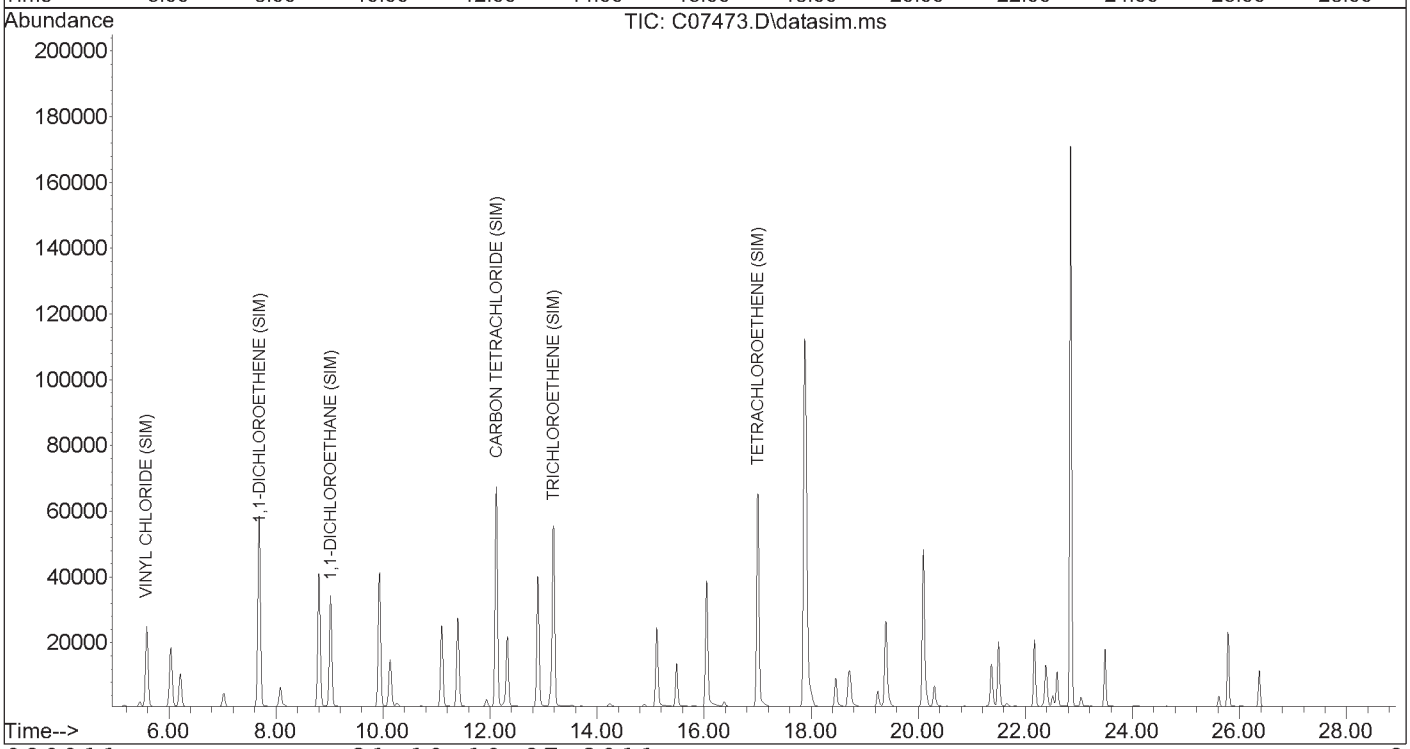
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07473.D
Acq On : 9 Mar 2011 3:25 pm
Operator : KRL
Sample : 2.0ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 10 08:30:38 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07474.D
Acq On : 9 Mar 2011 4:13 pm
Operator : KRL
Sample : 5.0ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 08:31:44 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.135	128	501616	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.340	114	2541262	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.885	54	302886	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.107	95	1150504	13.39	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 133.90%#			
Target Compounds						Qvalue
2) PROPENE	5.100	42	747177	4.00	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.179	85	2953431	4.12	PPBv #	100
4) CHLOROMETHANE	5.361	50	1518339	3.69	PPBv #	100
5) FREON 114	5.469	85	3701589	3.90	PPBv #	100
6) VINYL CHLORIDE	5.604	62	1334476	3.96	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.597	62	1446145	4.48	PPBv #	100
8) 1,3-BUTADIENE	5.753	54	1032097	3.91	PPBv #	100
9) BROMOMETHANE	6.048	94	1357524	3.94	PPBv #	100
10) CHLOROETHANE	6.230	64	677755	4.01	PPBv #	100
11) ACETONE	6.832	58	688892	4.20	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.036	101	3866286	3.95	PPBv #	100
13) ETHANOL	6.327	45	415959	4.19	PPBv #	100
14) ACRYLONITRILE	5.755	53	703004	4.00	PPBv #	100
15) 1,1-DICHLOROETHENE	7.703	96	1434516	3.97	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.699	96	1643485	4.74	PPBv #	100
17) METHYLENE CHLORIDE	7.816	84	1202247	3.89	PPBv #	100
18) FREON 113	8.094	101	2650133	4.43	PPBv #	100
19) CARBON DISULFIDE	8.169	76	3199109	4.98	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.819	96	1259758	5.14	PPBv #	100
21) 1,1-DICHLOROETHANE	9.037	63	1739636	4.21	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.030	63	1954070	4.87	PPBv #	100
23) MTBE	9.084	73	2363383	5.29	PPBv #	100
24) IPA	7.077	45	2020381	4.05	PPBv #	100
25) 2-BUTANONE (MEK)	9.443	72	564439	5.13	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.948	96	1332285	5.09	PPBv #	100
27) HEXANE	10.178	57	1846595	4.43	PPBv #	100
28) ETHYL ACETATE	10.164	61	407029	4.66	PPBv #	100
29) CHLOROFORM	10.276	83	2094963	4.60	PPBv #	100
30) TETRAHYDROFURAN	10.731	71	479450	5.75	PPBv #	100
31) 1,2-DICHLOROETHANE	11.116	62	1162166	4.28	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.412	97	2239296	5.13	PPBv #	100
33) BENZENE	11.950	78	3672271	5.07	PPBv	100
34) CARBON TETRACHLORIDE	12.126	119	2622395	5.17	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07474.D
Acq On : 9 Mar 2011 4:13 pm
Operator : KRL
Sample : 5.0ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 08:31:44 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

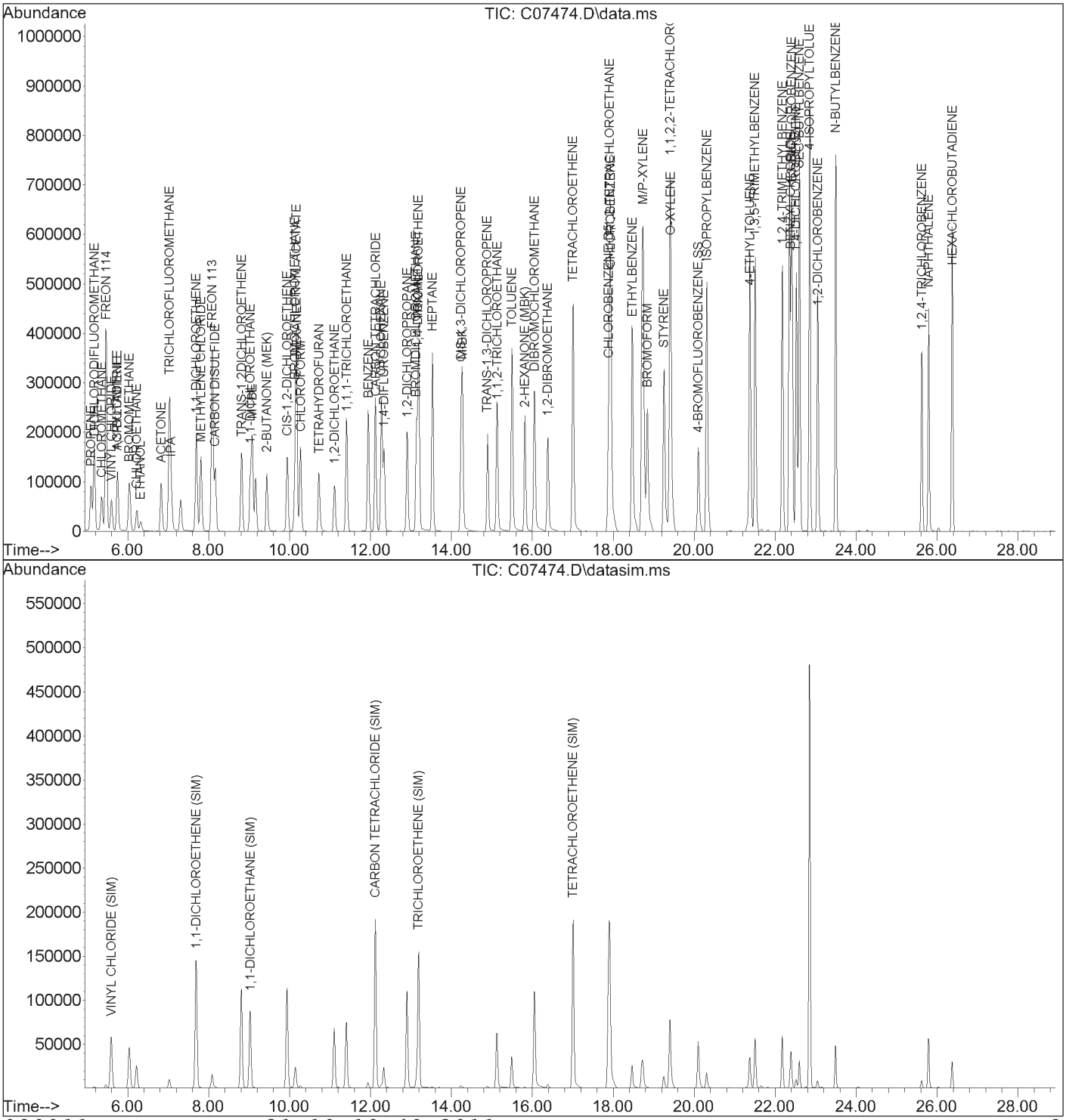
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.125	119	2897956	5.82	PPBv	#	100
36) CYCLOHEXANE	12.270	56	1894565m	4.51	PPBv		
38) 1,2-DICHLOROPROPANE	12.912	63	1237102	4.31	PPBv	#	100
39) BROMDICHLOROMETHANE	13.142	83	2262273	4.87	PPBv	#	100
40) TRICHLOROETHENE	13.195	95	1678320	4.70	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.192	95	1908515	5.39	PPBv	#	100
42) 1,4-DIOXANE	13.176	88	681133m	5.93	PPBv		
43) HEPTANE	13.538	57	1200736	4.38	PPBv	#	100
44) MIBK	14.278	43	3030689	4.43	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.245	75	1900315	5.33	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.899	75	1597453	5.77	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.133	83	1249720	4.77	PPBv	#	100
48) TOLUENE	15.502	91	4938866	5.50	PPBv	#	100
49) 2-HEXANONE (MBK)	15.822	58	1440138	5.32	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.058	129	3186856	5.76	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.389	107	2618152	5.58	PPBv	#	100
52) TETRACHLOROETHENE	17.012	166	2388019	5.03	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.012	166	2888900	5.64	PPBv	#	100
55) CHLOROBENZENE	17.947	112	4031398	5.98	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.918	135	641001	7.52	PPBv	#	100
57) ETHYLBENZENE	18.474	91	6008742	7.02	PPBv	#	100
58) M/P-XYLENE	18.734	106	5572666	13.88	PPBv	#	100
59) BROMOFORM	18.848	173	2501508	7.86	PPBv	#	100
60) STYRENE	19.260	104	3670884	7.78	PPBv	#	100
61) O-XYLENE	19.420	106	2782531	7.41	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.405	83	3092580	6.56	PPBv	#	100
64) ISOPROPYLBENZENE	20.316	105	6887368	7.30	PPBv	#	100
65) 4-ETHYLTOLUENE	21.380	105	7158124	7.92	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.512	105	5684621	7.71	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.183	105	5385518	8.19	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.421	146	4290846	7.21	PPBv	#	100
69) BENZYL CHLORIDE	22.396	91	3811975	9.77	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.529	146	4080678	7.40	PPBv	#	100
71) SEC-BUTYLBENZENE	22.606	105	8985516	7.33	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.857	119	8329192	7.67	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.058	146	3575048	7.08	PPBv	#	100
74) N-BUTYLBENZENE	23.502	91	6288230	7.13	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.629	180	1872592	7.75	PPBv	#	100
76) NAPHTHALENE	25.799	128	5804562	8.15	PPBv		100
77) HEXACHLOROBUTADIENE	26.380	225	1653417	7.53	PPBv		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07474.D
Acq On : 9 Mar 2011 4:13 pm
Operator : KRL
Sample : 5.0ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 10 08:31:44 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07475.D
Acq On : 9 Mar 2011 5:06 pm
Operator : KRL
Sample : 10ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 08:33:06 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.137	128	535558	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.339	114	2655834	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.872	54	323307m	10.00	PPBv	-0.01
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.107	95	1296580	14.14	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 141.40%#			
Target Compounds						Qvalue
2) PROPENE	5.100	42	1635813	8.21	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.179	85	6674108	8.73	PPBv #	100
4) CHLOROMETHANE	5.363	50	3715270	8.46	PPBv #	100
5) FREON 114	5.469	85	8714759	8.60	PPBv #	100
6) VINYL CHLORIDE	5.604	62	3064833	8.51	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.597	62	3343926	9.74	PPBv #	100
8) 1,3-BUTADIENE	5.753	54	2634684	9.34	PPBv #	100
9) BROMOMETHANE	6.049	94	3018939	8.20	PPBv #	100
10) CHLOROETHANE	6.229	64	1617136	8.97	PPBv #	100
11) ACETONE	6.828	58	1548786	8.85	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.036	101	10386219	9.94	PPBv #	100
13) ETHANOL	6.317	45	1111873	10.49	PPBv #	100
14) ACRYLONITRILE	5.754	53	1738313	9.26	PPBv #	100
15) 1,1-DICHLOROETHENE	7.701	96	3338754	8.65	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.698	96	3876811	10.51	PPBv #	100
17) METHYLENE CHLORIDE	7.815	84	2676557	8.12	PPBv #	100
18) FREON 113	8.091	101	5785219	9.06	PPBv #	100
19) CARBON DISULFIDE	8.166	76	6726716	9.81	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.817	96	2675846	10.23	PPBv #	100
21) 1,1-DICHLOROETHANE	9.035	63	3789318	8.58	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.030	63	4195572	9.81	PPBv #	100
23) MTBE	9.079	73	5410977	11.35	PPBv #	100
24) IPA	7.062	45	5266232	9.90	PPBv #	100
25) 2-BUTANONE (MEK)	9.438	72	1291716	10.99	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.947	96	2853010	10.20	PPBv #	100
27) HEXANE	10.177	57	3905532	8.78	PPBv #	100
28) ETHYL ACETATE	10.159	61	890335	9.55	PPBv #	100
29) CHLOROFORM	10.274	83	4642057	9.55	PPBv #	100
30) TETRAHYDROFURAN	10.724	71	1055321	11.85	PPBv #	100
31) 1,2-DICHLOROETHANE	11.114	62	2651697	9.14	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.412	97	4965506	10.66	PPBv #	100
33) BENZENE	11.950	78	7876983	10.18	PPBv	100
34) CARBON TETRACHLORIDE	12.125	119	5811994	10.73	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07475.D
Acq On : 9 Mar 2011 5:06 pm
Operator : KRL
Sample : 10ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 08:33:06 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration

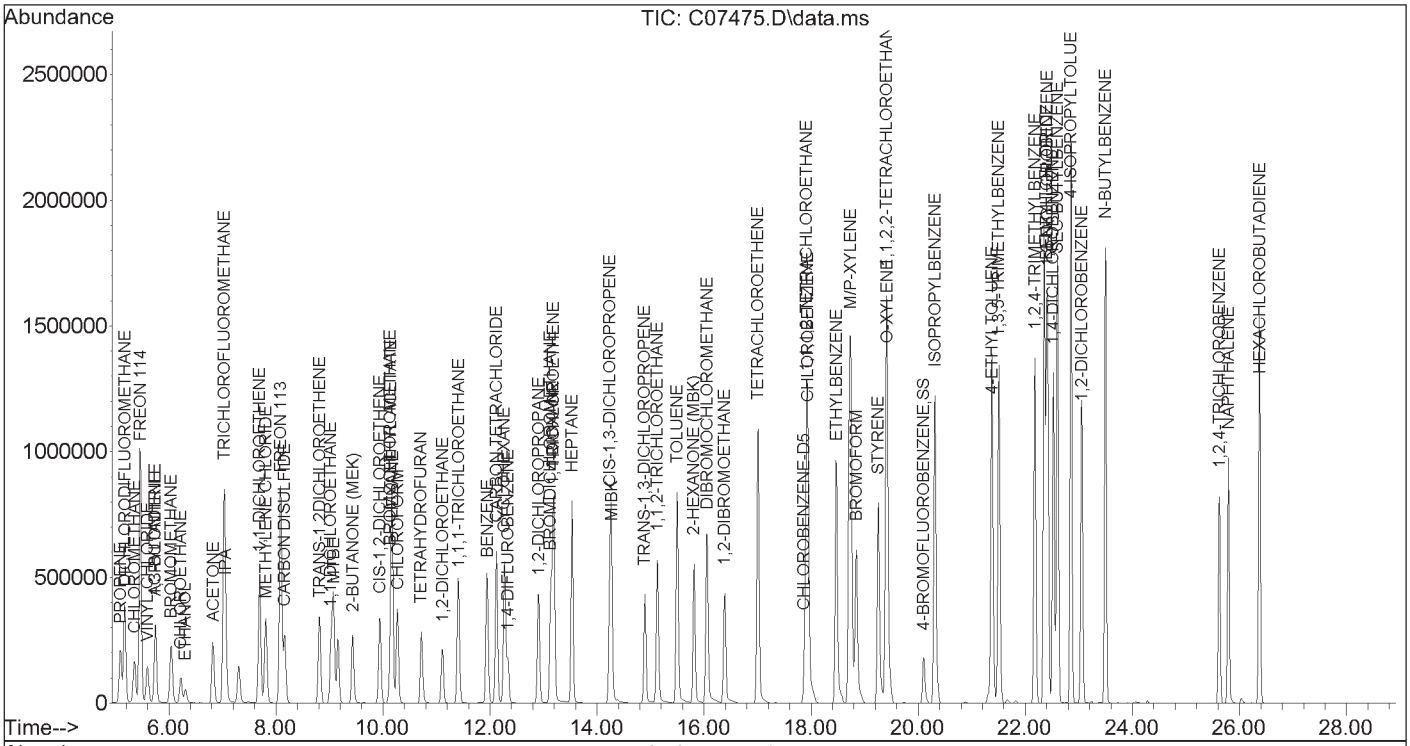
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.124	119	6523332	12.28	PPBv	#	100
36) CYCLOHEXANE	12.270	56	4028470m	8.99	PPBv		
38) 1,2-DICHLOROPROPANE	12.910	63	2640520	8.80	PPBv	#	100
39) BROMDICHLOROMETHANE	13.141	83	4792260	9.87	PPBv	#	100
40) TRICHLOROETHENE	13.194	95	3512438	9.41	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.191	95	4149782	11.22	PPBv	#	100
42) 1,4-DIOXANE	13.176	88	1495888m	12.46	PPBv		
43) HEPTANE	13.537	57	2466096	8.61	PPBv	#	100
44) MIBK	14.272	43	6598199	9.24	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.244	75	4169915	11.19	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.899	75	3621144	12.52	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.131	83	2701260	9.86	PPBv	#	100
48) TOLUENE	15.502	91	10916781	11.63	PPBv	#	100
49) 2-HEXANONE (MBK)	15.817	58	3214000	11.37	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.058	129	7252410	12.54	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.389	107	5812556	11.86	PPBv	#	100
52) TETRACHLOROETHENE	17.011	166	5415103	10.91	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.012	166	6542508	12.24	PPBv	#	100
55) CHLOROBENZENE	17.946	112	8992110	12.50	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.918	135	1463112	16.08	PPBv	#	100
57) ETHYLBENZENE	18.474	91	13501895	14.78	PPBv	#	100
58) M/P-XYLENE	18.735	106	13091904	30.54	PPBv	#	100
59) BROMOFORM	18.849	173	5961689	17.55	PPBv	#	100
60) STYRENE	19.260	104	8270259	16.41	PPBv	#	100
61) O-XYLENE	19.421	106	6170845	15.40	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.406	83	6910623	13.72	PPBv	#	100
64) ISOPROPYLBENZENE	20.316	105	16296130	16.19	PPBv	#	100
65) 4-ETHYLTOLUENE	21.380	105	17229453	17.87	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.512	105	13577165	17.24	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.184	105	13341190	19.00	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.422	146	10169426	16.01	PPBv	#	100
69) BENZYL CHLORIDE	22.397	91	9969693	23.94	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.529	146	9946049	16.90	PPBv	#	100
71) SEC-BUTYLBENZENE	22.607	105	21311622	16.28	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.858	119	20237082	17.45	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.059	146	8946372	16.59	PPBv	#	100
74) N-BUTYLBENZENE	23.502	91	15091631	16.04	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.630	180	4133728	16.02	PPBv	#	100
76) NAPHTHALENE	25.800	128	12140776	15.97	PPBv		100
77) HEXACHLOROBUTADIENE	26.381	225	4038914	17.24	PPBv		100

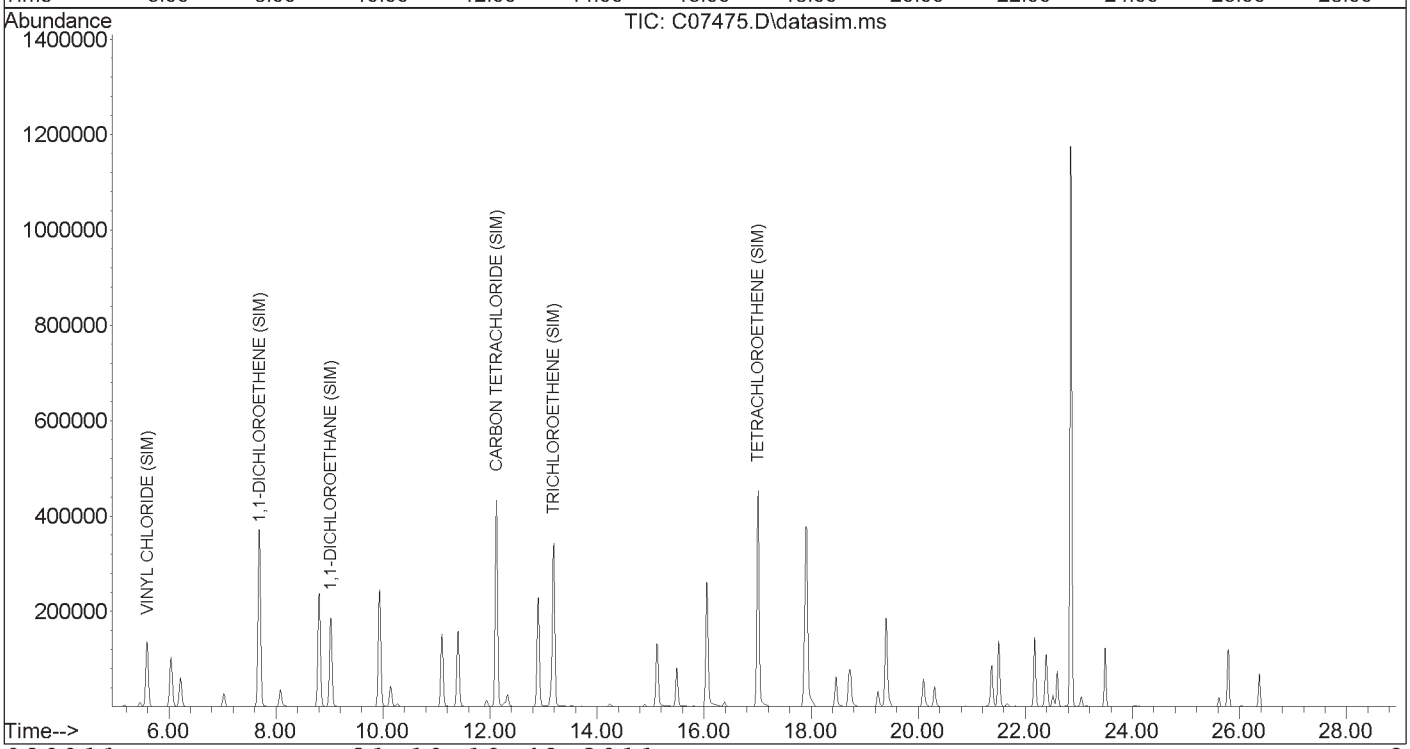
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07475.D
Acq On : 9 Mar 2011 5:06 pm
Operator : KRL
Sample : 10ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 10 08:33:06 2011
Quant Method : C:\msdchem\1\METHODS\T4022511L.M
Quant Title :
QLast Update : Tue Mar 01 09:14:19 2011
Response via : Initial Calibration





FORM VIIa - INITIAL CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
SDG: 25245
Client: Mitkem Laboratories
Project: See Chain of Custody
Calibration: 1102028
Laboratory ID: S101178-ICV1
Sequence: S101178
Standard ID: 10F0610
Analyzed: 02/15/11 22:06

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% R	QC LIMIT
Propene	10.0	9.48	95	70 - 130
Dichlorodifluoromethane (Freon12)	10.0	9.48	95	70 - 130
Chloromethane	10.0	7.34	73	70 - 130
1,2-Dichlorotetrafluoroethane (Freon 114)	10.0	9.68	97	70 - 130
Vinyl chloride	10.0	9.67	97	70 - 130
1,3-Butadiene	10.0	9.96	100	70 - 130
Bromomethane	10.0	9.53	95	70 - 130
Chloroethane	10.0	9.53	95	70 - 130
Acetone	10.0	9.69	97	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	9.35	94	70 - 130
Ethanol	10.0	8.56	86	70 - 130
1,1-Dichloroethene	10.0	9.55	96	70 - 130
Acrylonitrile	10.0	9.65	96	70 - 130
Methylene chloride	10.0	9.52	95	70 - 130
1,1,2-Trichlorotrifluoroethane (Freon 113)	10.0	9.51	95	70 - 130
Carbon disulfide	10.0	9.63	96	70 - 130
trans-1,2-Dichloroethene	10.0	9.62	96	70 - 130
1,1-Dichloroethane	10.0	9.57	96	70 - 130
Methyl tert-butyl ether	10.0	10.2	102	70 - 130
Isopropyl alcohol	10.0	9.89	99	70 - 130
2-Butanone (MEK)	10.0	10.5	105	70 - 130
cis-1,2-Dichloroethene	10.0	10.1	101	70 - 130
Hexane	10.0	10.2	102	70 - 130
Ethyl acetate	10.0	11.1	111	70 - 130
Chloroform	10.0	9.51	95	70 - 130
Tetrahydrofuran	10.0	10.7	107	70 - 130
1,2-Dichloroethane	10.0	9.56	96	70 - 130

FORM VIIa - INITIAL CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
SDG: 25245
Client: Mitkem Laboratories
Project: See Chain of Custody
Calibration: 1102028
Laboratory ID: S101178-ICV1
Sequence: S101178
Standard ID: 10F0610
Analyzed: 02/15/11 22:06

1,1,1-Trichloroethane	10.0	9.54	95	70 - 130
Benzene	10.0	9.97	100	70 - 130
Carbon tetrachloride	10.0	9.65	96	70 - 130
Cyclohexane	10.0	9.91	99	70 - 130
1,2-Dichloropropane	10.0	9.84	98	70 - 130
Bromodichloromethane	10.0	9.61	96	70 - 130
Trichloroethene	10.0	9.87	99	70 - 130
1,4-Dioxane	10.0	9.13	91	70 - 130
n-Heptane	10.0	10.5	105	70 - 130
4-Methyl-2-pentanone (MIBK)	10.0	10.4	104	70 - 130
cis-1,3-Dichloropropene	10.0	10.3	103	70 - 130
trans-1,3-Dichloropropene	10.0	10.4	104	70 - 130
1,1,2-Trichloroethane	10.0	9.93	99	70 - 130
Toluene	10.0	10.5	105	70 - 130
2-Hexanone (MBK)	10.0	9.37	94	70 - 130
Dibromochloromethane	10.0	9.92	99	70 - 130
1,2-Dibromoethane (EDB)	10.0	10.0	100	70 - 130
Tetrachloroethene	10.0	10.1	101	70 - 130
Chlorobenzene	10.0	10.4	104	70 - 130
Ethylbenzene	10.0	11.2	112	70 - 130
1,1,1,2-Tetrachloroethane	10.0	9.96	100	70 - 130
m,p-Xylene	20.0	22.4	112	70 - 130
Bromoform	10.0	10.4	104	70 - 130
Styrene	10.0	12.3	123	70 - 130
o-Xylene	10.0	11.3	113	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.6	106	70 - 130
1,3,5-Trimethylbenzene	10.0	10.9	109	70 - 130
4-Ethyltoluene	10.0	10.9	109	70 - 130
1,2,4-Trimethylbenzene	10.0	11.3	113	70 - 130

FORM VIIa - INITIAL CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
SDG: 25245
Client: Mitkem Laboratories
Project: See Chain of Custody
Calibration: 1102028
Laboratory ID: S101178-ICV1
Sequence: S101178
Standard ID: 10F0610
Analyzed: 02/15/11 22:06

Isopropylbenzene	10.0	10.6	106	70 - 130
1,3-Dichlorobenzene	10.0	10.5	105	70 - 130
Benzyl chloride	10.0	12.0	120	70 - 130
1,4-Dichlorobenzene	10.0	11.0	110	70 - 130
Naphthalene	10.0	12.2	122	70 - 130
1,2-Dichlorobenzene	10.0	10.6	106	70 - 130
1,2,4-Trichlorobenzene	10.0	10.2	102	70 - 130
Hexachlorobutadiene	10.0	9.25	92	70 - 130
sec-Butylbenzene	10.0	11.3	113	70 - 130
4-Isopropyltoluene	10.0	11.5	115	70 - 130
n-Butylbenzene	10.0	11.7	117	70 - 130

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36435.D Vial: 3
Acq On : 15 Feb 2011 10:06 pm Operator: KG
Sample : 10ppbv to-15icv Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 9:14 2011 Quant Results File: T2021511H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.28	128	361190	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	11.51	114	1699005	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.09	82	858604	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.33	95	960981	10.33	PPBv		0.00
Spiked Amount 10.000	Range 9 - 15		Recovery = 103.30%#				
Target Compounds							Qvalue
2) PROPENE	4.42	42	252795	9.48	PPBv		95
3) DICHLORODIFLUOROMETHANE	4.49	85	1093454	9.49	PPBv		100
4) CHLOROMETHANE	4.65	50	384189	7.36	PPBv	#	100
5) FREON 114	4.74	85	1238790	9.68	PPBv		97
6) VINYL CHLORIDE	4.87	62	421570	9.67	PPBv		99
7) 1,3-BUTADIENE	5.00	54	309256	9.96	PPBv		96
8) BROMOMETHANE	5.28	94	368527	9.53	PPBv		100
9) CHLOROETHANE	5.45	64	179154	9.53	PPBv		97
10) ACETONE	6.05	58	129920	9.69	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.21	101	1114269	9.35	PPBv		99
12) ETHANOL	5.58	45	86700	8.56	PPBv	#	79
13) ACRYLONITRILE	6.51	53	152350	9.65	PPBv	#	100
14) 1,1-DICHLOROETHENE	6.85	96	299785	9.55	PPBv	#	100
15) METHYLENE CHLORIDE	6.97	84	248310	9.52	PPBv	#	100
16) FREON 113	7.24	101	697969	9.52	PPBv	#	100
17) CARBON DISULFIDE	7.30	76	813380	9.63	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	7.96	96	390384	9.62	PPBv	#	100
19) 1,1-DICHLOROETHANE	8.18	63	765521	9.57	PPBv	#	100
20) MTBE	8.26	73	991728	10.22	PPBv	#	100
21) IPA	6.30	45	435016	9.89	PPBv	#	100
22) 2-BUTANONE(MEK)	8.63	72	200693	10.54	PPBv	#	100
23) CIS-1,2-DICHLOROETHENE	9.09	96	423167	10.08	PPBv	#	100
24) HEXANE	9.31	57	692334	10.17	PPBv	#	100
25) ETHYL ACETATE	9.35	61	149731	11.13	PPBv	#	100
26) CHLOROFORM	9.42	83	889288	9.51	PPBv	#	100
27) TETRAHYDROFURAN	9.92	71	165208	10.71	PPBv	#	100
28) 1,2-DICHLOROETHANE	10.26	62	542847	9.56	PPBv	#	100
29) 1,1,1-TRICHLOROETHANE	10.55	97	860135	9.54	PPBv	#	100
30) BENZENE	11.09	78	1298248	9.97	PPBv		100
31) CARBON TETRACHLORIDE	11.27	119	822404	9.65	PPBv	#	100
32) CYCLOHEXANE	11.41	56	681334	9.91	PPBv	#	100
34) 1,2-DICHLOROPROPANE	12.07	63	502770	9.84	PPBv	#	100
35) BROMODICHLOROMETHANE	12.31	83	924259	9.61	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR2\021511\B36435.D Vial: 3
Acq On : 15 Feb 2011 10:06 pm Operator: KG
Sample : 10ppbv to-15icv Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 9:14 2011 Quant Results File: T2021511H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

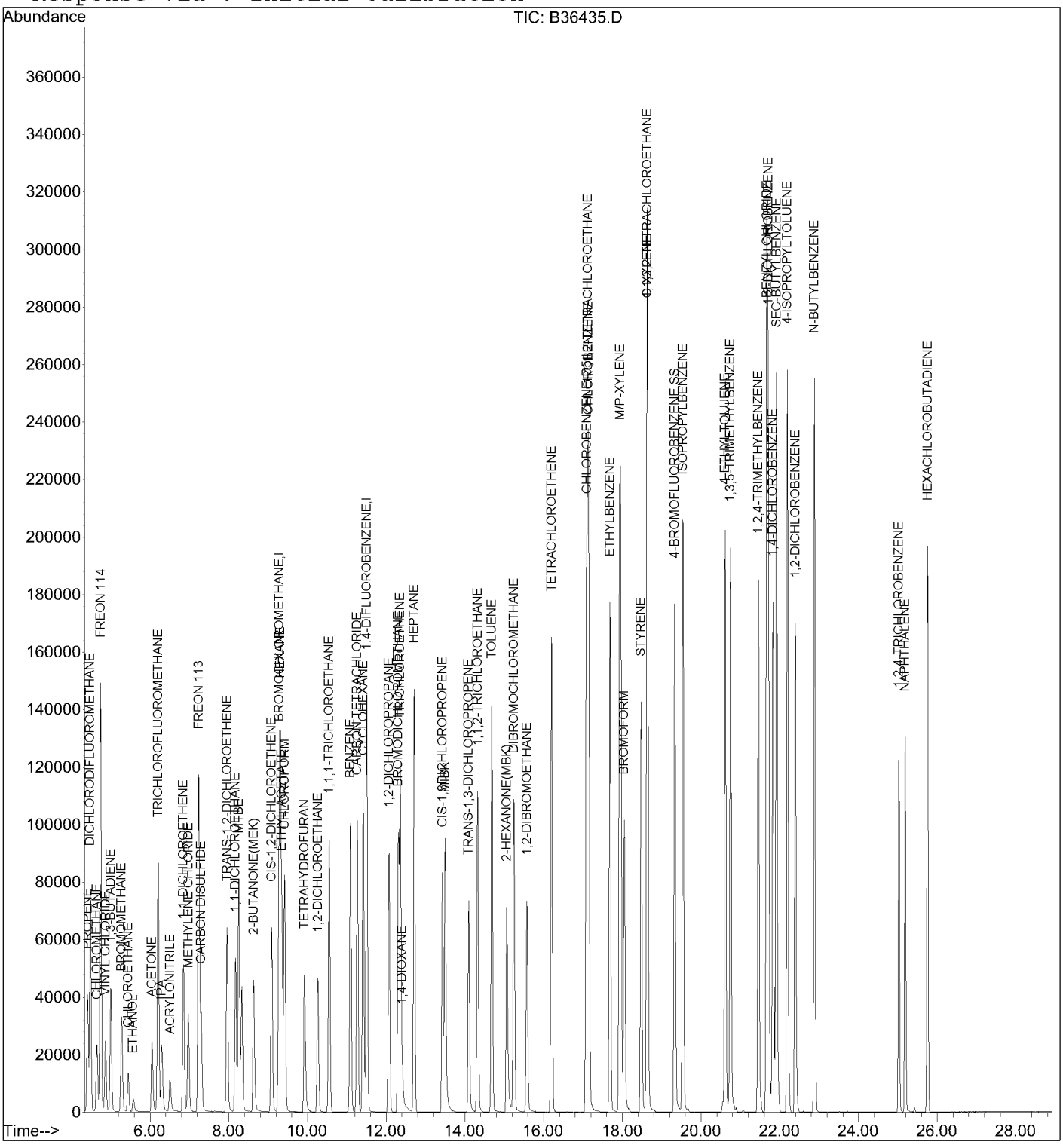
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	TRICHLOROETHENE	12.36	95	566152	9.87	PPBv	#	100
37)	1,4-DIOXANE	12.41	88	191001	9.13	PPBv	#	100
38)	HEPTANE	12.71	57	454520	10.50	PPBv	#	100
39)	MIBK	13.50	43	1066027	10.36	PPBv	#	100
40)	CIS-1,3DICHLOROPROPENE	13.43	75	700258	10.33	PPBv	#	100
41)	TRANS-1,3-DICHLOROPROPENE	14.10	75	599635	10.45	PPBv	#	100
42)	1,1,2-TRICHLOROETHANE	14.32	83	476554	9.93	PPBv	#	100
43)	TOLUENE	14.69	91	1567847	10.50	PPBv	#	100
44)	2-HEXANONE(MBK)	15.06	58	441348	10.49	PPBv	#	100
45)	DIBROMOCHLOROMETHANE	15.25	129	899363	9.93	PPBv	#	100
46)	1,2-DIBROMOETHANE	15.58	107	794634	10.05	PPBv	#	100
47)	TETRACHLOROETHENE	16.20	166	724052	10.10	PPBv	#	100
49)	CHLOROBENZENE	17.15	112	1237552	10.41	PPBv		99
50)	1,1,1,2-TETRACHLOROETHANE	17.12	131	653236	9.96	PPBv	#	100
51)	ETHYLBENZENE	17.68	91	1996931	11.20	PPBv	#	100
52)	M/P-XYLENE	17.95	106	1600530	22.39	PPBv		91
53)	BROMOFORM	18.05	173	790288	10.45	PPBv		97
54)	STYRENE	18.48	104	1118096	12.27	PPBv	#	100
55)	O-XYLENE	18.64	106	790977	11.30	PPBv		96
56)	1,1,2,2-TETRACHLOROETHANE	18.63	83	1193809	10.62	PPBv	#	100
58)	ISOPROPYLBENZENE	19.54	105	2135563	10.58	PPBv	#	100
59)	4-ETHYLTOLUENE	20.61	105	2081285	10.88	PPBv	#	87
60)	1,3,5-TRIMETHYLBENZENE	20.75	105	1754577	10.91	PPBv	#	100
61)	1,2,4-TRIMETHYLBENZENE	21.46	105	1716497	11.27	PPBv		96
62)	1,3-DICHLOROBENZENE	21.71	146	1204133	10.54	PPBv		99
63)	BENZYL CHLORIDE	21.69	91	1335731	11.96	PPBv		100
64)	1,4-DICHLOROBENZENE	21.83	146	1245746	11.01	PPBv	#	72
65)	SEC-BUTYLBENZENE	21.92	105	2798050	11.33	PPBv		99
66)	4-ISOPROPYLTOLUENE	22.19	119	2218979	11.52	PPBv		97
67)	1,2-DICHLOROBENZENE	22.39	146	1116334	10.63	PPBv		98
68)	N-BUTYLBENZENE	22.88	91	2059396	11.70	PPBv		98
69)	1,2,4-TRICHLOROBENZENE	25.03	180	552474	10.17	PPBv		97
70)	NAPHTHALENE	25.19	128	1380383	12.23	PPBv		100
71)	HEXACHLOROBUTADIENE	25.76	225	539978	9.25	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\FEB2011\AIR2\021511\B36435.D Vial: 3
Acq On : 15 Feb 2011 10:06 pm Operator: KG
Sample : 10ppbv to-15icv Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Feb 16 9:14 2011 Quant Results File: T2021511H.RE

Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration



FORM VIIa - INITIAL CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
SDG: 25245
Client: Mitkem Laboratories
Project: See Chain of Custody
Calibration: 1103003
Laboratory ID: S101529-ICV1
Sequence: S101529
Standard ID: 10F0610
Analyzed: 02/25/11 14:13

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% R	QC LIMIT
Propene	10.0	9.32	93	70 - 130
Dichlorodifluoromethane (Freon12)	10.0	9.86	99	70 - 130
Chloromethane	10.0	7.99	80	70 - 130
1,2-Dichlorotetrafluoroethane (Freon 114)	10.0	11.1	111	70 - 130
Vinyl chloride	10.0	12.3	123	70 - 130
1,3-Butadiene	10.0	13.0	130	70 - 130
Bromomethane	10.0	12.0	120	70 - 130
Chloroethane	10.0	12.7	127	70 - 130
Acetone	10.0	9.80	98	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	8.67	87	70 - 130
Ethanol	10.0	11.0	110	70 - 130
1,1-Dichloroethene	10.0	9.13	91	70 - 130
Acrylonitrile	10.0	10.9	109	70 - 130
Methylene chloride	10.0	8.40	84	70 - 130
1,1,2-Trichlorotrifluoroethane (Freon 113)	10.0	7.68	77	70 - 130
Carbon disulfide	10.0	7.63	76	70 - 130
trans-1,2-Dichloroethene	10.0	10.3	103	70 - 130
1,1-Dichloroethane	10.0	10.1	101	70 - 130
Methyl tert-butyl ether	10.0	11.4	114	70 - 130
Isopropyl alcohol	10.0	11.2	112	70 - 130
2-Butanone (MEK)	10.0	10.8	108	70 - 130
cis-1,2-Dichloroethene	10.0	10.4	104	70 - 130
Hexane	10.0	10.7	107	70 - 130
Ethyl acetate	10.0	9.72	97	70 - 130
Chloroform	10.0	9.91	99	70 - 130
Tetrahydrofuran	10.0	10.4	104	70 - 130
1,2-Dichloroethane	10.0	10.1	101	70 - 130

FORM VIIa - INITIAL CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
SDG: 25245
Client: Mitkem Laboratories
Project: See Chain of Custody
Calibration: 1103003
Laboratory ID: S101529-ICV1
Sequence: S101529
Standard ID: 10F0610
Analyzed: 02/25/11 14:13

1,1,1-Trichloroethane	10.0	10.4	104	70 - 130
Benzene	10.0	10.5	105	70 - 130
Carbon tetrachloride	10.0	9.97	100	70 - 130
Cyclohexane	10.0	10.9	109	70 - 130
1,2-Dichloropropane	10.0	10.2	102	70 - 130
Bromodichloromethane	10.0	9.78	98	70 - 130
Trichloroethene	10.0	10.3	103	70 - 130
1,4-Dioxane	10.0	10.9	109	70 - 130
n-Heptane	10.0	10.5	105	70 - 130
4-Methyl-2-pentanone (MIBK)	10.0	10.1	101	70 - 130
cis-1,3-Dichloropropene	10.0	11.0	110	70 - 130
trans-1,3-Dichloropropene	10.0	10.4	104	70 - 130
1,1,2-Trichloroethane	10.0	10.2	102	70 - 130
Toluene	10.0	10.6	106	70 - 130
2-Hexanone (MBK)	10.0	10.4	104	70 - 130
Dibromochloromethane	10.0	9.55	96	70 - 130
1,2-Dibromoethane (EDB)	10.0	10.4	104	70 - 130
Tetrachloroethene	10.0	10.4	104	70 - 130
Chlorobenzene	10.0	10.5	105	70 - 130
Ethylbenzene	10.0	11.0	110	70 - 130
1,1,1,2-Tetrachloroethane	10.0	11.0	110	70 - 130
m,p-Xylene	20.0	22.0	110	70 - 130
Bromoform	10.0	8.93	89	70 - 130
Styrene	10.0	12.0	120	70 - 130
o-Xylene	10.0	11.0	110	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.3	103	70 - 130
1,3,5-Trimethylbenzene	10.0	10.5	105	70 - 130
4-Ethyltoluene	10.0	10.8	108	70 - 130
1,2,4-Trimethylbenzene	10.0	10.8	108	70 - 130

FORM VIIa - INITIAL CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
SDG: 25245
Client: Mitkem Laboratories
Project: See Chain of Custody
Calibration: 1103003
Laboratory ID: S101529-ICV1
Sequence: S101529
Standard ID: 10F0610
Analyzed: 02/25/11 14:13

Isopropylbenzene	10.0	11.0	110	70 - 130
1,3-Dichlorobenzene	10.0	10.3	103	70 - 130
Benzyl chloride	10.0	18.7	187 *	70 - 130
1,4-Dichlorobenzene	10.0	10.4	104	70 - 130
Naphthalene	10.0	12.2	122	70 - 130
1,2-Dichlorobenzene	10.0	10.4	104	70 - 130
1,2,4-Trichlorobenzene	10.0	10.0	100	70 - 130
Hexachlorobutadiene	10.0	9.37	94	70 - 130
sec-Butylbenzene	10.0	10.9	109	70 - 130
4-Isopropyltoluene	10.0	11.0	110	70 - 130
n-Butylbenzene	10.0	10.9	109	70 - 130

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : G:\FEB2011\AIR1\022411\A39474.D Vial: 7
Acq On : 25 Feb 2011 2:13 pm Operator: KG
Sample : 10ppbv to-15icv Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 15:08 2011 Quant Results File: T1022411.RES

Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.82	128	643376	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	12.03	114	3283397	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.59	82	1709918	10.00	PPBv		-0.01
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.82	95	1935040	10.14	PPBv		-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.40%				
Target Compounds							Qvalue
2) PROPENE	4.85	42	337733	9.32	PPBv		99
3) DICHLORODIFLUOROMETHANE	4.93	85	1679666	9.86	PPBv		100
4) CHLOROMETHANE	5.11	50	474364	7.99	PPBv	#	88
5) FREON 114	5.21	85	1700489	11.14	PPBv		90
6) VINYL CHLORIDE	5.34	62	629009	12.31	PPBv		99
7) 1,3-BUTADIENE	5.49	54	470958	13.01	PPBv		90
8) BROMOMETHANE	5.77	94	501653	12.01	PPBv		99
9) CHLOROETHANE	5.95	64	303787	12.71	PPBv		97
10) ACETONE	6.55	58	196905	9.80	PPBv		72
11) TRICHLOROFLUOROMETHANE	6.73	101	1149263	8.67	PPBv		99
12) ETHANOL	6.05	45	161577	10.99	PPBv		98
13) ACRYLONITRILE	7.02	53	246766	10.87	PPBv	#	100
14) 1,1-DICHLOROETHENE	7.39	96	387598	9.13	PPBv		90
15) METHYLENE CHLORIDE	7.50	84	350218	8.40	PPBv	#	80
16) FREON 113	7.78	101	827153	7.68	PPBv		96
17) CARBON DISULFIDE	7.84	76	1138404	7.63	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	8.50	96	650453	10.31	PPBv		90
19) 1,1-DICHLOROETHANE	8.72	63	1191103	10.13	PPBv		99
20) MTBE	8.78	73	1888551	11.40	PPBv		95
21) IPA	6.79	45	672629	11.20	PPBv	#	96
22) 2-BUTANONE(MEK)	9.14	72	348104	10.82	PPBv	#	1
23) CIS-1,2-DICHLOROETHENE	9.63	96	678813	10.41	PPBv		91
24) HEXANE	9.86	57	1062818	10.70	PPBv		95
25) ETHYL ACETATE	9.86	61	233690	9.72	PPBv		90
26) CHLOROFORM	9.96	83	1335598	9.91	PPBv		100
27) TETRAHYDROFURAN	10.44	71	294517	10.42	PPBv		95
28) 1,2-DICHLOROETHANE	10.80	62	913451	10.07	PPBv		98
29) 1,1,1-TRICHLOROETHANE	11.10	97	1359583	10.37	PPBv		98
30) BENZENE	11.63	78	2079698	10.52	PPBv		100
31) CARBON TETRACHLORIDE	11.81	119	1161910	9.97	PPBv		100
32) CYCLOHEXANE	11.96	56	1159088m	10.86	PPBv		
34) 1,2-DICHLOROPROPANE	12.60	63	769918	10.22	PPBv		100
35) BROMODICHLOROMETHANE	12.83	83	1358749	9.78	PPBv		100

(#) = qualifier out of range (m) = manual integration

Data File : G:\FEB2011\AIR1\022411\A39474.D Vial: 7
Acq On : 25 Feb 2011 2:13 pm Operator: KG
Sample : 10ppbv to-15icv Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 15:08 2011 Quant Results File: T1022411.RES

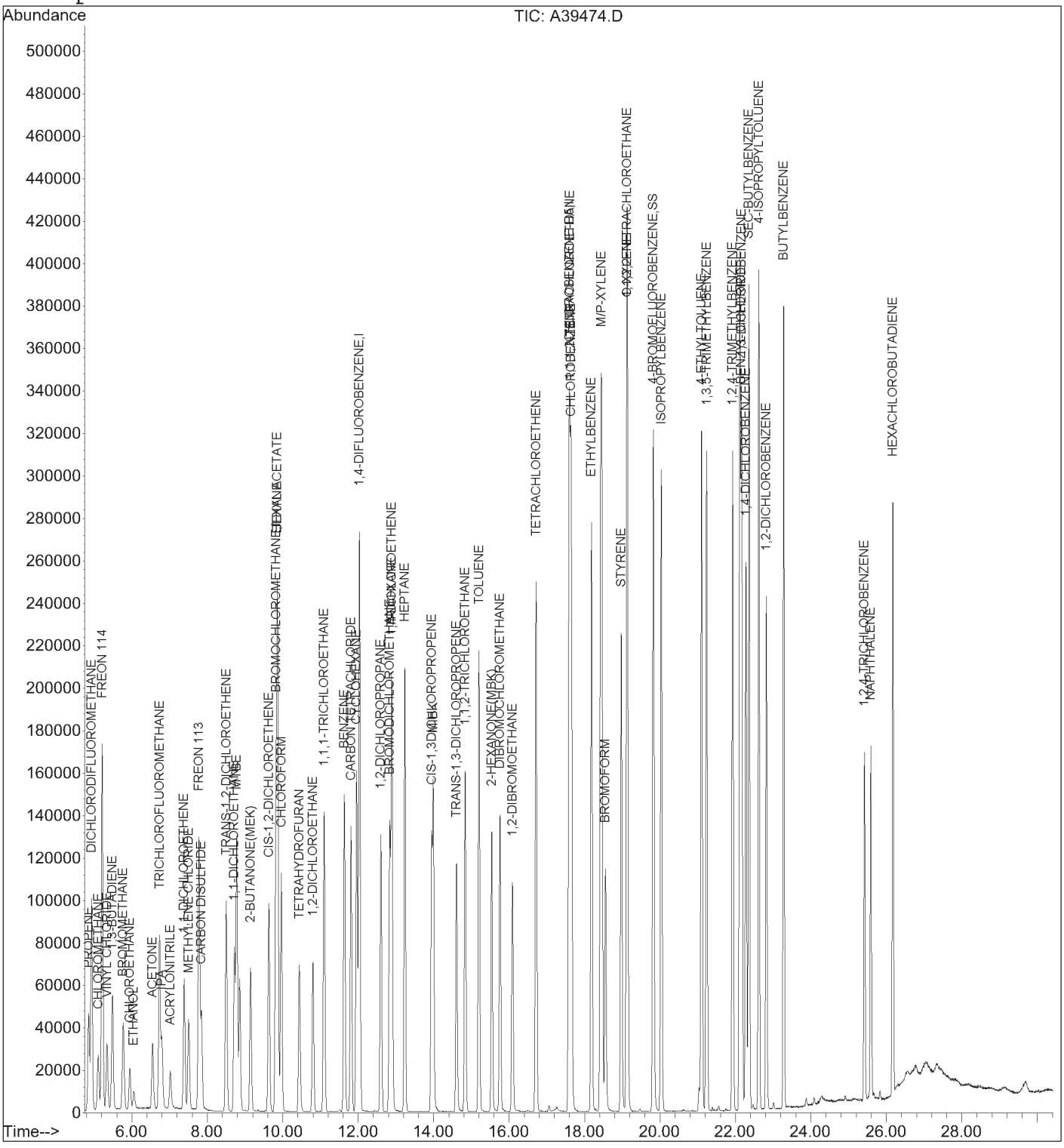
Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	1,4-DIOXANE	12.90	88	413251	10.94	PPBv	#	93
37)	TRICHLOROETHENE	12.89	95	900805	10.33	PPBv		98
38)	HEPTANE	13.24	57	695975	10.48	PPBv		89
39)	MIBK	13.99	43	1495665	10.12	PPBv		95
40)	CIS-1,3DICHLOROPROPENE	13.94	75	1156837	11.03	PPBv		99
41)	TRANS-1,3-DICHLOROPROPENE	14.61	75	1039786	10.36	PPBv		98
42)	1,1,2-TRICHLOROETHANE	14.83	83	715986	10.19	PPBv		99
43)	TOLUENE	15.20	91	2499143	10.65	PPBv		100
44)	2-HEXANONE(MBK)	15.54	58	782488	10.45	PPBv		89
45)	DIBROMOCHLOROMETHANE	15.76	129	1173185	9.55	PPBv		100
46)	1,2-DIBROMOETHANE	16.09	107	1232473	10.41	PPBv		100
47)	TETRACHLOROETHENE	16.71	166	1173335	10.35	PPBv		99
49)	1,1,1,2-TETRACHLOROETHANE	17.63	135	255287	10.95	PPBv	#	100
50)	CHLOROBENZENE	17.65	112	1857943	10.48	PPBv		99
51)	ETHYLBENZENE	18.18	91	3267435	10.96	PPBv		100
52)	M/P-XYLENE	18.45	106	2589351	22.03	PPBv		99
53)	BROMOFORM	18.56	173	938352	8.93	PPBv		100
54)	STYRENE	18.97	104	1873666	11.96	PPBv		98
55)	O-XYLENE	19.13	106	1242228	10.95	PPBv		99
56)	1,1,2,2-TETRACHLOROETHANE	19.12	83	1584821	10.32	PPBv		100
58)	ISOPROPYLBENZENE	20.03	105	3430787	11.00	PPBv	#	100
59)	4-ETHYLTOLUENE	21.10	105	3622781	10.84	PPBv		100
60)	1,3,5-TRIMETHYLBENZENE	21.24	105	2972381m	10.49	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.93	105	2851587	10.83	PPBv		100
62)	1,3-DICHLOROBENZENE	22.17	146	1622283	10.34	PPBv		100
63)	BENZYL CHLORIDE	22.14	91	1922024	18.72	PPBv		99
64)	1,4-DICHLOROBENZENE	22.28	146	1657403	10.40	PPBv		98
65)	SEC-BUTYLBENZENE	22.36	105	4098032	10.87	PPBv	#	100
66)	4-ISOPROPYLTOLUENE	22.62	119	3305783	10.95	PPBv	#	99
67)	1,2-DICHLOROBENZENE	22.82	146	1477452	10.35	PPBv		100
68)	BUTYLBENZENE	23.28	91	2952099	10.88	PPBv		98
69)	1,2,4-TRICHLOROBENZENE	25.42	180	712728	10.03	PPBv		99
70)	NAPHTHALENE	25.59	128	1878257	12.18	PPBv		100
71)	HEXACHLOROBUTADIENE	26.17	225	858067	9.37	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Data File : G:\FEB2011\AIR1\022411\A39474.D Vial: 7
Acq On : 25 Feb 2011 2:13 pm Operator: KG
Sample : 10ppbv to-15icv Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 25 15:08 2011 Quant Results File: T1022411.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 09 12:19:35 2011
Response via : Initial Calibration



FORM VIIa - INITIAL CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
SDG: 25245
Client: Mitkem Laboratories
Project: See Chain of Custody
Calibration: 1103010
Laboratory ID: S101717-ICV1
Sequence: S101717
Standard ID: 10F1046
Analyzed: 03/09/11 19:54

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% R	QC LIMIT
1,1,1-Trichloroethane	2.00	1.9700	98	70 - 130
Propene	2.00	1.9700	98	70 - 130
Dichlorodifluoromethane (Freon12)	2.00	1.8800	94	70 - 130
Chloromethane	2.00	1.4000	70	70 - 130
1,2-Dichlorotetrafluoroethane (Freon 114)	2.00	1.8300	92	70 - 130
Vinyl chloride	2.00	1.8600	93	70 - 130
1,3-Butadiene	2.00	1.8400	92	70 - 130
Bromomethane	2.00	1.8800	94	70 - 130
Chloroethane	2.00	2.0000	100	70 - 130
Acetone	2.00	1.9100	96	70 - 130
Trichlorofluoromethane (Freon 11)	2.00	1.9400	97	70 - 130
Ethanol	2.00	1.6800	84	70 - 130
1,1-Dichloroethene	2.00	1.8800	94	70 - 130
Acrylonitrile	2.00	1.9600	98	70 - 130
Methylene chloride	2.00	1.8700	94	70 - 130
1,1,2-Trichlorotrifluoroethane (Freon 113)	2.00	1.9100	96	70 - 130
Carbon disulfide	2.00	2.1200	106	70 - 130
trans-1,2-Dichloroethene	2.00	2.0200	101	70 - 130
1,1-Dichloroethane	2.00	1.9200	96	70 - 130
Methyl tert-butyl ether	2.00	2.2600	113	70 - 130
Isopropyl alcohol	2.00	2.1000	105	70 - 130
2-Butanone (MEK)	2.00	2.2000	110	70 - 130
cis-1,2-Dichloroethene	2.00	2.1600	108	70 - 130
Hexane	2.00	2.0600	103	70 - 130
Ethyl acetate	2.00	2.3600	118	70 - 130
Chloroform	2.00	1.8900	94	70 - 130
Tetrahydrofuran	2.00	2.3800	119	70 - 130

FORM VIIa - INITIAL CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
SDG: 25245
Client: Mitkem Laboratories
Project: See Chain of Custody
Calibration: 1103010
Laboratory ID: S101717-ICV1
Sequence: S101717
Standard ID: 10F1046
Analyzed: 03/09/11 19:54

1,2-Dichloroethane	2.00	1.9500	98	70 - 130
Benzene	2.00	2.0500	102	70 - 130
Carbon tetrachloride	2.00	1.9900	100	70 - 130
Cyclohexane	2.00	2.2100	110	70 - 130
1,2-Dichloropropane	2.00	2.1000	105	70 - 130
Bromodichloromethane	2.00	2.1900	110	70 - 130
Trichloroethene	2.00	2.1400	107	70 - 130
1,4-Dioxane	2.00	2.1500	108	70 - 130
n-Heptane	2.00	2.2600	113	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	2.3400	117	70 - 130
cis-1,3-Dichloropropene	2.00	2.4300	122	70 - 130
trans-1,3-Dichloropropene	2.00	2.5600	128	70 - 130
1,1,2-Trichloroethane	2.00	2.0900	104	70 - 130
Toluene	2.00	2.4500	122	70 - 130
2-Hexanone (MBK)	2.00	2.5900	130	70 - 130
Dibromochloromethane	2.00	2.2900	114	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.3600	118	70 - 130
Tetrachloroethene	2.00	2.2400	112	70 - 130
Chlorobenzene	2.00	2.0800	104	70 - 130
Ethylbenzene	2.00	2.5500	128	70 - 130
1,1,1,2-Tetrachloroethane	2.00	2.1800	109	70 - 130
m,p-Xylene	4.00	4.6100	115	70 - 130
Bromoform	2.00	2.4000	120	70 - 130
Styrene	2.00	2.6600	133 *	70 - 130
o-Xylene	2.00	2.4000	120	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.1500	108	70 - 130
1,3,5-Trimethylbenzene	2.00	2.2800	114	70 - 130
4-Ethyltoluene	2.00	2.4000	120	70 - 130
1,2,4-Trimethylbenzene	2.00	2.3900	120	70 - 130

FORM VIIa - INITIAL CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
SDG: 25245
Client: Mitkem Laboratories
Project: See Chain of Custody
Calibration: 1103010
Laboratory ID: S101717-ICV1
Sequence: S101717
Standard ID: 10F1046
Analyzed: 03/09/11 19:54

Isopropylbenzene	2.00	2.2900	114	70 - 130
1,3-Dichlorobenzene	2.00	1.9900	100	70 - 130
Benzyl chloride	2.00	2.2800	114	70 - 130
1,4-Dichlorobenzene	2.00	2.1300	106	70 - 130
Naphthalene	2.00	2.8400	142 *	70 - 130
1,2-Dichlorobenzene	2.00	2.0200	101	70 - 130
1,2,4-Trichlorobenzene	2.00	2.6500	132 *	70 - 130
Hexachlorobutadiene	2.00	2.1800	109	70 - 130
sec-Butylbenzene	2.00	2.2300	112	70 - 130
4-Isopropyltoluene	2.00	2.2800	114	70 - 130
n-Butylbenzene	2.00	2.3100	116	70 - 130

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07479.D
Acq On : 9 Mar 2011 7:54 pm
Operator : KRL
Sample : 2ppbv to-15icv Inst : Air 4
Misc : 1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 10 08:42:52 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.133	128	495361	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.325	114	2352456m	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.872	54	292291m	10.00	PPBv	0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.103	95	1054482	10.36	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 103.60%#			
Target Compounds						Qvalue
2) PROPENE	5.100	42	311008	1.97	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.177	85	1343936	1.88	PPBv #	100
4) CHLOROMETHANE	5.358	50	519199	1.40	PPBv #	100
5) FREON 114	5.466	85	1660718	1.83	PPBv #	100
6) VINYL CHLORIDE	5.601	62	572965	1.86	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.594	62	638542	2.12	PPBv #	100
8) 1,3-BUTADIENE	5.752	54	464761	1.84	PPBv #	100
9) BROMOMETHANE	6.045	94	612472	1.88	PPBv #	100
10) CHLOROETHANE	6.227	64	303502	2.00	PPBv #	100
11) ACETONE	6.829	58	290802	1.91	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.032	101	1913161	1.94	PPBv #	100
13) ETHANOL	6.320	45	149793	1.68	PPBv #	100
14) ACRYLONITRILE	5.751	53	318352	1.96	PPBv #	100
15) 1,1-DICHLOROETHENE	7.699	96	611974	1.88	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.695	96	700835	2.15	PPBv #	100
17) METHYLENE CHLORIDE	7.813	84	518531	1.87	PPBv #	100
18) FREON 113	8.090	101	1146929	1.91	PPBv #	100
19) CARBON DISULFIDE	8.164	76	1322645	2.12	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.816	96	506450	2.02	PPBv #	100
21) 1,1-DICHLOROETHANE	9.033	63	732656	1.92	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.027	63	823164	2.19	PPBv #	100
23) MTBE	9.081	73	974271	2.26	PPBv #	100
24) IPA	7.065	45	984798	2.10	PPBv #	100
25) 2-BUTANONE (MEK)	9.439	72	234337	2.20	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.944	96	548147	2.16	PPBv #	100
27) HEXANE	10.175	57	747015	2.06	PPBv #	100
28) ETHYL ACETATE	10.160	61	170831	2.36	PPBv #	100
29) CHLOROFORM	10.270	83	889252	1.89	PPBv #	100
30) TETRAHYDROFURAN	10.730	71	183575	2.38	PPBv #	100
31) 1,2-DICHLOROETHANE	11.110	62	501298	1.95	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.409	97	888833	1.97	PPBv #	100
33) BENZENE	11.947	78	1526456	2.05	PPBv	100
34) CARBON TETRACHLORIDE	12.124	119	1044046	1.99	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07479.D
Acq On : 9 Mar 2011 7:54 pm
Operator : KRL
Sample : 2ppbv to-15icv Inst : Air 4
Misc : 1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 10 08:42:52 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

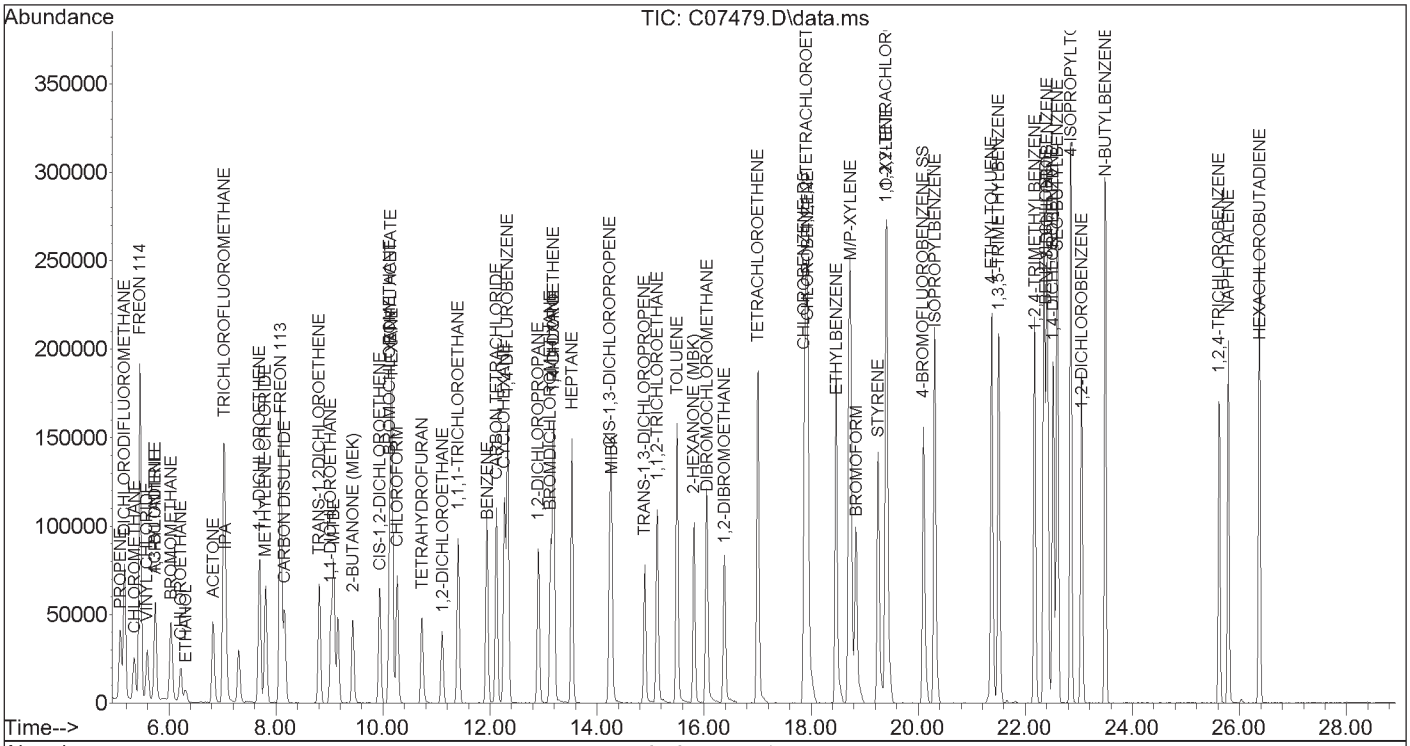
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35] CARBON TETRACHLORIDE (...	12.122	119	1196679	2.21	PPBv #	100
36) CYCLOHEXANE	12.276	56	811266	2.21	PPBv #	100
38) 1,2-DICHLOROPROPANE	12.908	63	515894	2.10	PPBv #	100
39) BROMDICHLOROMETHANE	13.137	83	936832	2.19	PPBv #	100
40) TRICHLOROETHENE	13.192	95	678043	2.14	PPBv #	100
41] TRICHLOROETHENE (SIM)	13.188	95	795553	2.29	PPBv #	100
42) 1,4-DIOXANE	13.183	88	255732	2.15	PPBv #	100
43) HEPTANE	13.535	57	501596	2.26	PPBv #	100
44) MIBK	14.272	43	1239602	2.34	PPBv #	100
45) CIS-1,3-DICHLOROPROPENE	14.241	75	773682	2.43	PPBv #	100
46) TRANS-1,3-DICHLOROPROPENE	14.896	75	644538	2.56	PPBv #	100
47) 1,1,2-TRICHLOROETHANE	15.127	83	514915	2.09	PPBv #	100
48) TOLUENE	15.498	91	2084652	2.45	PPBv #	100
49) 2-HEXANONE (MBK)	15.812	58	567639m	2.59	PPBv	
50) DIBROMOCHLOROMETHANE	16.054	129	1251384	2.29	PPBv #	100
51) 1,2-DIBROMOETHANE	16.384	107	1101147	2.36	PPBv #	100
52) TETRACHLOROETHENE	17.009	166	995518	2.24	PPBv #	100
53] TETRACHLOROETHENE (SIM)	17.009	166	1206042	2.33	PPBv #	100
55) CHLOROBENZENE	17.943	112	1738252	2.08	PPBv #	100
56) 1,1,1,2-TETRACHLOROETHANE	17.915	135	257406	2.18	PPBv #	100
57) ETHYLBENZENE	18.470	91	2598877	2.55	PPBv #	100
58) M/P-XYLENE	18.730	106	2301177	4.61	PPBv #	100
59) BROMOFORM	18.844	173	983698	2.40	PPBv #	100
60) STYRENE	19.257	104	1540160	2.66	PPBv #	100
61) O-XYLENE	19.416	106	1135437	2.40	PPBv #	100
62) 1,1,2,2-TETRACHLOROETHANE	19.399	83	1280302	2.15	PPBv #	100
64) ISOPROPYLBENZENE	20.313	105	2856828	2.29	PPBv #	100
65) 4-ETHYLTOLUENE	21.377	105	2807937	2.40	PPBv #	100
66) 1,3,5-TRIMETHYLBENZENE	21.509	105	2276839	2.28	PPBv #	100
67) 1,2,4-TRIMETHYLBENZENE	22.179	105	2129835	2.39	PPBv #	100
68) 1,3-DICHLOROBENZENE	22.418	146	1625955	1.99	PPBv #	100
69) BENZYL CHLORIDE	22.392	91	1389724	2.28	PPBv #	100
70) 1,4-DICHLOROBENZENE	22.524	146	1604914	2.13	PPBv #	100
71) SEC-BUTYLBENZENE	22.602	105	3619140	2.23	PPBv #	100
72) 4-ISOPROPYLTOLUENE	22.854	119	3209792	2.28	PPBv #	100
73) 1,2-DICHLOROBENZENE	23.055	146	1411894	2.02	PPBv #	100
74) N-BUTYLBENZENE	23.499	91	2601603	2.31	PPBv #	100
75) 1,2,4-TRICHLOROBENZENE	25.616	180	855062m	2.65	PPBv	
76) NAPHTHALENE	25.797	128	2578200	2.84	PPBv	100
77) HEXACHLOROBUTADIENE	26.379	225	684999	2.18	PPBv	100

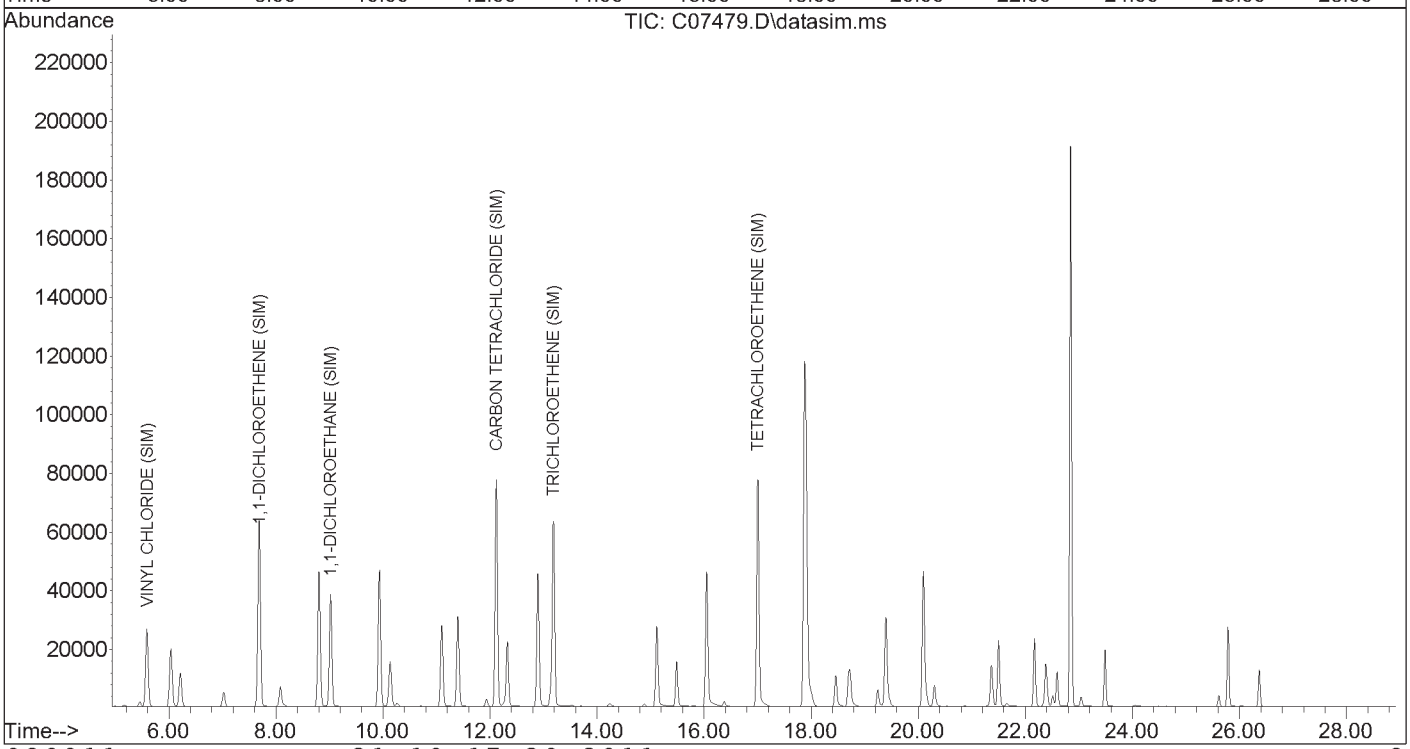
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\030911\
Data File : C07479.D
Acq On : 9 Mar 2011 7:54 pm
Operator : KRL
Sample : 2ppbv to-15icv Inst : Air 4
Misc : 1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 10 08:42:52 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration





FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Instrument ID:	Air1	Calibration:	1103003
Lab File ID:	A39598.D	Calibration Date:	02/24/11 11:19
Sequence:	S101712	Injection Date:	03/08/11
Lab Sample ID:	S101712-CCV1	Injection Time:	07:54
Spike ID:	10C0079		

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Propene	A	10.0	9.46	0.5633769	0.5327485		-5.4	30	
Dichlorodifluoromethane (Freon12)	A	10.0	10.3	2.648823	2.732265		3.2	30	
Chloromethane	A	10.0	8.84	0.9227806	0.815865		-11.6	30	
1,2-Dichlorotetrafluoroethane (Freon 114)	A	10.0	10.1	2.373219	2.387749		0.6	30	
Vinyl chloride	A	10.0	9.72	0.7939015	0.7715476		-2.8	30	
1,3-Butadiene	A	10.0	9.45	0.5625453	0.5316438		-5.5	30	
Bromomethane	A	10.0	9.52	0.649013	0.6180382		-4.8	30	
Chloroethane	A	10.0	9.43	0.3714671	0.3501841		-5.7	30	
Acetone	A	10.0	8.97	0.3122716	0.2799918		-10.3	30	
Trichlorofluoromethane (Freon 11)	A	10.0	10.6	2.059383	2.18653		6.2	30	
Ethanol	L	10.0	9.84	0.2648363	0.2262615		-1.6	30	
1,1-Dichloroethene	A	10.0	14.2	0.6597991	0.93427		41.6	30	*
Acrylonitrile	L	10.0	9.67	0.3213058	0.326764		-3.3	30	
Methylene chloride	A	10.0	13.8	0.6480752	0.8911254		37.5	30	*
1,1,2-Trichlorotrifluoroethane (Freon 113)	A	10.0	12.9	1.674569	2.154723		28.7	30	
Carbon disulfide	A	10.0	12.3	2.319826	2.844976		22.6	30	
trans-1,2-Dichloroethene	A	10.0	10.1	0.9803161	0.9860382		0.6	30	
1,1-Dichloroethane	A	10.0	10.2	1.828048	1.856823		1.6	30	
Methyl tert-butyl ether	A	10.0	10.1	2.574184	2.593256		0.7	30	
Isopropyl alcohol	A	10.0	9.80	0.9330473	0.914562		-2.0	30	
2-Butanone (MEK)	A	10.0	10.4	0.4999878	0.5191351		3.8	30	
cis-1,2-Dichloroethene	A	10.0	10.0	1.013824	1.013782		-0.004	30	
Hexane	A	10.0	10.4	1.54348	1.606725		4.1	30	
Ethyl acetate	L	10.0	9.33	0.3150342	0.3478983		-6.7	30	
Chloroform	A	10.0	10.2	2.094213	2.140681		2.2	30	
Tetrahydrofuran	L	10.0	9.79	0.4007394	0.4215841		-2.1	30	
1,2-Dichloroethane	A	10.0	10.4	1.410378	1.466456		4.0	30	

FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Instrument ID:	Air1	Calibration:	1103003
Lab File ID:	A39598.D	Calibration Date:	02/24/11 11:19
Sequence:	S101712	Injection Date:	03/08/11
Lab Sample ID:	S101712-CCV1	Injection Time:	07:54
Spike ID:	10C0079		

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	10.0	10.3	2.037222	2.102724		3.2	30
Benzene	A	10.0	10.0	3.073795	3.086248		0.4	30
Carbon tetrachloride	A	10.0	10.8	1.8116	1.962787		8.3	30
Cyclohexane	A	10.0	10.3	1.637204	1.715334		4.8	30
1,2-Dichloropropane	A	10.0	10.0	0.229532	0.2299928		0.2	30
Bromodichloromethane	A	10.0	10.3	0.4230126	0.4351413		2.9	30
Trichloroethene	A	10.0	10.4	0.265726	0.2757262		3.8	30
1,4-Dioxane	A	10.0	10.6	0.1151423	0.1214576		5.5	30
n-Heptane	A	10.0	10.1	0.2022981	0.2046787		1.2	30
4-Methyl-2-pentanone (MIBK)	A	10.0	10.0	0.4464904	0.4522703		1.3	30
cis-1,3-Dichloropropene	A	10.0	10.1	0.3195511	0.3229281		1.1	30
trans-1,3-Dichloropropene	L	10.0	9.55	0.2757585	0.2827737		-4.5	30
1,1,2-Trichloroethane	A	10.0	10.2	0.2132227	0.2177664		2.1	30
Toluene	A	10.0	10.3	0.7146513	0.7346137		2.8	30
2-Hexanone (MBK)	L	10.0	9.86	0.1987787	0.2205687		-1.4	30
Dibromochloromethane	A	10.0	10.8	0.3742498	0.4038019		7.9	30
1,2-Dibromoethane (EDB)	A	10.0	10.3	0.3582986	0.3726429		4.0	30
Tetrachloroethene	A	10.0	10.6	0.3454113	0.3660409		6.0	30
Chlorobenzene	A	10.0	11.2	1.036351	1.160736		12.0	30
Ethylbenzene	A	10.0	11.4	1.743271	1.994383		14.4	30
1,1,1,2-Tetrachloroethane	A	10.0	11.8	0.1362769	0.1604939		17.8	30
m,p-Xylene	A	20.0	23.5	0.6871998	0.8063953		17.3	30
Bromoform	A	10.0	12.5	0.61475	0.7672796		24.8	30
Styrene	A	10.0	12.0	0.9133085	1.099161		20.3	30
o-Xylene	A	10.0	11.9	0.663403	0.7882257		18.8	30
1,1,2,2-Tetrachloroethane	A	10.0	12.3	0.8977392	1.103466		22.9	30
1,3,5-Trimethylbenzene	A	10.0	12.1	1.593545	2.007357		26.0	30
4-Ethyltoluene	A	10.0	12.2	1.943893	2.39509		23.2	30
1,2,4-Trimethylbenzene	A	10.0	12.5	1.539341	1.926035		25.1	30

FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Instrument ID:	Air1	Calibration:	1103003
Lab File ID:	A39598.D	Calibration Date:	02/24/11 11:19
Sequence:	S101712	Injection Date:	03/08/11
Lab Sample ID:	S101712-CCV1	Injection Time:	07:54
Spike ID:	10C0079		

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Isopropylbenzene	A	10.0	11.4	1.824348	2.083787		14.2	30	
1,3-Dichlorobenzene	A	10.0	12.0	0.9123466	1.104409		21.1	30	
Benzyl chloride	A	10.0	16.5	0.5963872	0.9916052		66.3	30	*
1,4-Dichlorobenzene	A	10.0	11.6	0.9265931	1.085191		17.1	30	
Naphthalene	A	10.0	11.1	0.8956133	1.000176		11.7	30	
1,2-Dichlorobenzene	A	10.0	12.4	0.8345507	1.032695		23.7	30	
1,2,4-Trichlorobenzene	A	10.0	10.7	0.4156077	0.4433197		6.7	30	
Hexachlorobutadiene	A	10.0	11.3	0.5354523	0.6057333		13.1	30	
sec-Butylbenzene	A	10.0	11.7	2.204267	2.587573		17.4	30	
4-Isopropyltoluene	A	10.0	11.9	1.764797	2.098771		18.9	30	
n-Butylbenzene	A	10.0	12.0	1.587233	1.9094		20.3	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\030811\A39598.D Vial: 2
Acq On : 8 Mar 2011 7:54 am Operator: KG
Sample : 10ppbv to-15ccc Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	10.000	10.000	0.0	93	-0.02
2		PROPENE	10.000	9.456	5.4	107	0.00
3		DICHLORODIFLUOROMETHANE	10.000	10.315	-3.1	110	0.00
4		CHLOROMETHANE	10.000	8.841	11.6	113	0.00
5		FREON 114	10.000	10.060	-0.6	116	0.00
6		VINYL CHLORIDE	10.000	9.718	2.8	119	0.00
7		1,3-BUTADIENE	10.000	9.451	5.5	118	0.00
8		BROMOMETHANE	10.000	9.523	4.8	112	0.00
9		CHLOROETHANE	10.000	9.427	5.7	112	0.00
10		ACETONE	10.000	8.966	10.3	100	0.00
11		TRICHLOROFLUOROMETHANE	10.000	10.617	-6.2	112	0.00
12		ETHANOL	10.000	9.840	1.6	104	0.00
13		ACRYLONITRILE	10.000	9.673	3.3	108	0.00
14		1,1-DICHLOROETHENE	10.000	14.160	-41.6#	107	0.00
15		METHYLENE CHLORIDE	10.000	13.750	-37.5#	107	0.00
16		FREON 113	10.000	12.867	-28.7	107	0.00
17		CARBON DISULFIDE	10.000	12.263	-22.6	105	0.00
18		TRANS-1,2-DICHLOROETHENE	10.000	10.058	-0.6	105	-0.01
19		1,1-DICHLOROETHANE	10.000	10.157	-1.6	106	-0.01
20		MTBE	10.000	10.074	-0.7	107	-0.01
21		IPA	10.000	9.802	2.0	104	0.00
22		2-BUTANONE(MEK)	10.000	10.383	-3.8	107	-0.02
23		CIS-1,2-DICHLOROETHENE	10.000	10.000	0.0	104	-0.02
24		HEXANE	10.000	10.410	-4.1	105	-0.02
25		ETHYL ACETATE	10.000	9.330	6.7	108	-0.02
26		CHLOROFORM	10.000	10.222	-2.2	106	-0.02
27		TETRAHYDROFURAN	10.000	9.793	2.1	106	-0.02
28		1,2-DICHLOROETHANE	10.000	10.398	-4.0	110	-0.02
29		1,1,1-TRICHLOROETHANE	10.000	10.322	-3.2	111	-0.02
30		BENZENE	10.000	10.041	-0.4	105	-0.02
31		CARBON TETRACHLORIDE	10.000	10.835	-8.4	118	-0.02
32		CYCLOHEXANE	10.000	10.344	-3.4	105	-0.03
33	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	96	-0.02
34		1,2-DICHLOROPROPANE	10.000	10.020	-0.2	107	-0.02
35		BROMODICHLOROMETHANE	10.000	10.287	-2.9	110	-0.02
36		1,4-DIOXANE	10.000	10.554	-5.5	104	-0.02
37		TRICHLOROETHENE	10.000	10.377	-3.8	105	-0.02
38		HEPTANE	10.000	10.118	-1.2	105	-0.02
39		MIBK	10.000	10.051	-0.5	106	-0.02
40		CIS-1,3DICHLOROPROPENE	10.000	10.106	-1.1	112	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\030811\A39598.D Vial: 2
Acq On : 8 Mar 2011 7:54 am Operator: KG
Sample : 10ppbv to-15ccc Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41		TRANS-1,3-DICHLOROPROPENE	10.000	9.549	4.5	108	-0.02
42		1,1,2-TRICHLOROETHANE	10.000	10.179	-1.8	105	-0.02
43		TOLUENE	10.000	10.280	-2.8	107	-0.03
44		2-HEXANONE(MBK)	10.000	9.858	1.4	115	-0.03
45		DIBROMOCHLOROMETHANE	10.000	10.790	-7.9	113	-0.03
46		1,2-DIBROMOETHANE	10.000	10.330	-3.3	103	-0.03
47		TETRACHLOROETHENE	10.000	10.598	-6.0	107	-0.03
48	I	CHLOROBENZENE-D5	10.000	10.000	0.0	96	-0.03
49		1,1,1,2-TETRACHLOROETHANE	10.000	11.776	-17.8	118	-0.03
50		CHLOROBENZENE	10.000	11.199	-12.0	107	-0.03
51		ETHYLBENZENE	10.000	11.440	-14.4	109	-0.03
52		M/P-XYLENE	20.000	23.468	-17.3	109	-0.02
53		BROMOFORM	10.000	12.481	-24.8	124	-0.03
54		STYRENE	10.000	11.993	-19.9	110	-0.03
55		O-XYLENE	10.000	11.881	-18.8	110	-0.03
56		1,1,2,2-TETRACHLOROETHANE	10.000	12.291	-22.9	114	-0.03
57	SS	4-BROMOFLUOROBENZENE	10.000	10.496	-5.0	98	-0.03
58		ISOPROPYLBENZENE	10.000	11.421	-14.2	112	-0.03
59		4-ETHYLTOLUENE	10.000	12.252	-22.5	110	-0.03
60		1,3,5-TRIMETHYLBENZENE	10.000	12.110	-21.1	107	-0.03
61		1,2,4-TRIMETHYLBENZENE	10.000	12.511	-25.1	111	-0.02
62		1,3-DICHLOROBENZENE	10.000	12.034	-20.3	105	-0.02
63		BENZYL CHLORIDE	10.000	16.517	-65.2#	138	-0.02
64		1,4-DICHLOROBENZENE	10.000	11.648	-16.5	107	-0.02
65		SEC-BUTYLBENZENE	10.000	11.738	-17.4	109	-0.02
66		4-ISOPROPYLTOLUENE	10.000	11.892	-18.9	108	-0.02
67		1,2-DICHLOROBENZENE	10.000	12.373	-23.7	112	-0.02
68		BUTYLBENZENE	10.000	12.029	-20.3	112	-0.02
69		1,2,4-TRICHLOROBENZENE	10.000	10.666	-6.7	106	-0.01
70		NAPHTHALENE	10.000	11.089	-10.9	99	-0.01
71		HEXACHLOROBUTADIENE	10.000	11.312	-13.1	107	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\030811\A39598.D Vial: 2
Acq On : 8 Mar 2011 7:54 am Operator: KG
Sample : 10ppbv to-15ccc Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 8 9:30 2011 Quant Results File: T1022411.RES

Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.80	128	485182	10.00	PPBv		-0.02
33) 1,4-DIFLUOROBENZENE	12.01	114	2426237	10.00	PPBv		-0.02
48) CHLOROBENZENE-D5	17.58	82	1205859	10.00	PPBv		-0.03
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.81	95	1411938	10.50	PPBv		-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.00%				
Target Compounds							Qvalue
2) PROPENE	4.84	42	258480	9.46	PPBv		99
3) DICHLORODIFLUOROMETHANE	4.92	85	1325646	10.32	PPBv		100
4) CHLOROMETHANE	5.09	50	395843	8.84	PPBv		91
5) FREON 114	5.19	85	1158493	10.06	PPBv		90
6) VINYL CHLORIDE	5.32	62	374341	9.72	PPBv		98
7) 1,3-BUTADIENE	5.46	54	257944	9.45	PPBv		96
8) BROMOMETHANE	5.75	94	299861	9.52	PPBv	#	98
9) CHLOROETHANE	5.93	64	169903	9.43	PPBv		98
10) ACETONE	6.52	58	135847	8.97	PPBv		96
11) TRICHLOROFLUOROMETHANE	6.71	101	1060865	10.62	PPBv		100
12) ETHANOL	6.02	45	109778	9.84	PPBv	#	81
13) ACRYLONITRILE	7.00	53	158540	9.67	PPBv	#	100
14) 1,1-DICHLOROETHENE	7.37	96	453291	14.16	PPBv		91
15) METHYLENE CHLORIDE	7.49	84	432358	13.75	PPBv		91
16) FREON 113	7.76	101	1045433	12.87	PPBv		98
17) CARBON DISULFIDE	7.82	76	1380331	12.26	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	8.48	96	478408	10.06	PPBv		91
19) 1,1-DICHLOROETHANE	8.70	63	900897	10.16	PPBv		99
20) MTBE	8.75	73	1258201	10.07	PPBv		96
21) IPA	6.76	45	443729	9.80	PPBv	#	79
22) 2-BUTANONE(MEK)	9.12	72	251875	10.38	PPBv	#	1
23) CIS-1,2-DICHLOROETHENE	9.61	96	491869	10.00	PPBv		92
24) HEXANE	9.84	57	779554	10.41	PPBv		98
25) ETHYL ACETATE	9.84	61	168794	9.33	PPBv		92
26) CHLOROFORM	9.94	83	1038620	10.22	PPBv		100
27) TETRAHYDROFURAN	10.40	71	204545	9.79	PPBv		96
28) 1,2-DICHLOROETHANE	10.78	62	711498	10.40	PPBv		98
29) 1,1,1-TRICHLOROETHANE	11.08	97	1020204	10.32	PPBv		100
30) BENZENE	11.61	78	1497392	10.04	PPBv		100
31) CARBON TETRACHLORIDE	11.79	119	952309	10.83	PPBv		99
32) CYCLOHEXANE	11.94	56	832249m	10.34	PPBv		
34) 1,2-DICHLOROPROPANE	12.58	63	558017	10.02	PPBv	#	88
35) BROMODICHLOROMETHANE	12.82	83	1055756	10.29	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\030811\A39598.D Vial: 2
Acq On : 8 Mar 2011 7:54 am Operator: KG
Sample : 10ppbv to-15ccc Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 8 9:30 2011 Quant Results File: T1022411.RES

Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

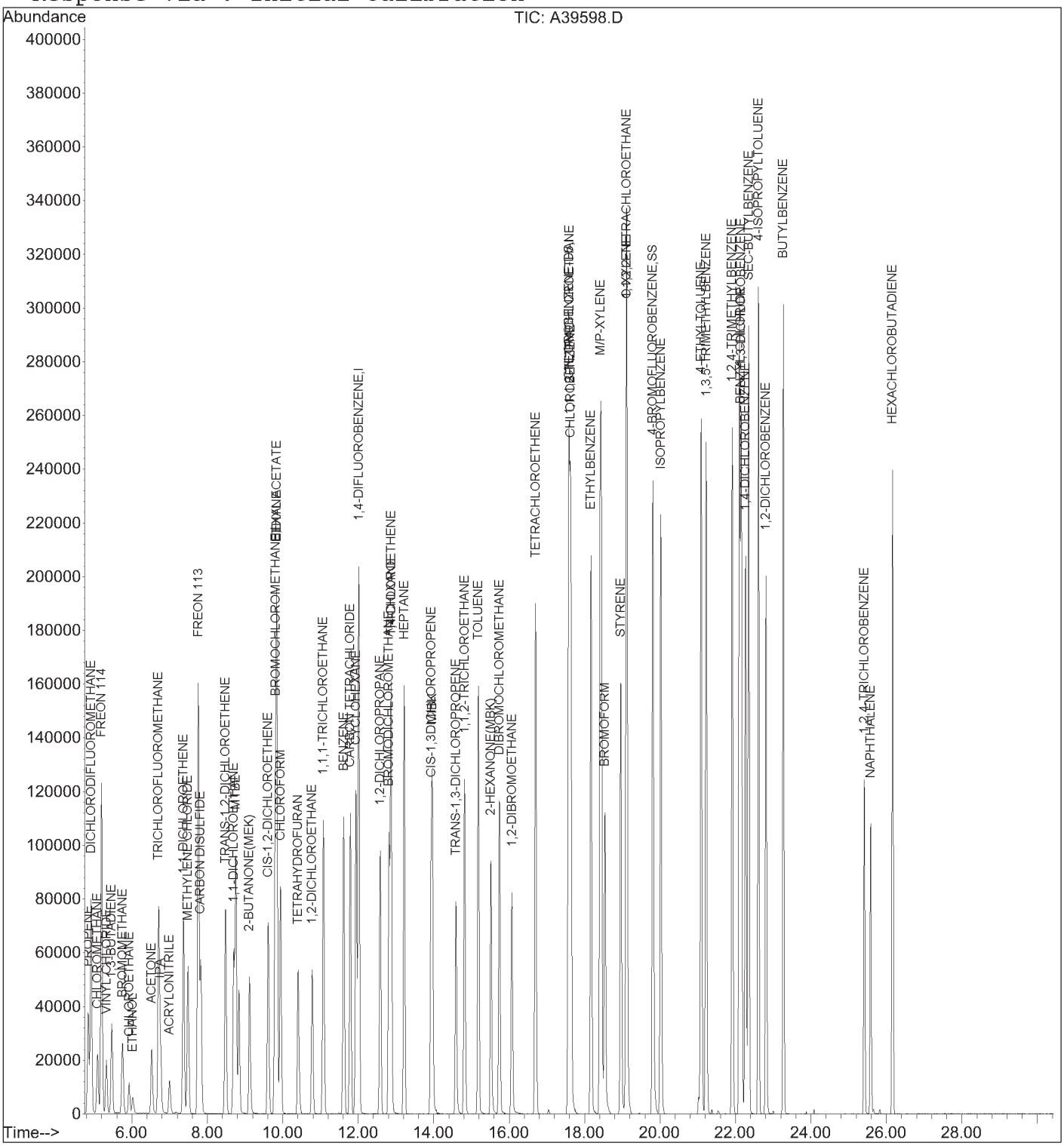
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	1,4-DIOXANE	12.87	88	294685	10.55	PPBv	#	98
37)	TRICHLOROETHENE	12.87	95	668977	10.38	PPBv		100
38)	HEPTANE	13.22	57	496599	10.12	PPBv		90
39)	MIBK	13.96	43	1097315	10.05	PPBv		97
40)	CIS-1,3DICHLOROPROPENE	13.93	75	783500	10.11	PPBv		99
41)	TRANS-1,3-DICHLOROPROPENE	14.59	75	686076	9.55	PPBv		99
42)	1,1,2-TRICHLOROETHANE	14.82	83	528353	10.18	PPBv		100
43)	TOLUENE	15.18	91	1782347	10.28	PPBv		99
44)	2-HEXANONE(MBK)	15.52	58	535152	9.86	PPBv		94
45)	DIBROMOCHLOROMETHANE	15.74	129	979719	10.79	PPBv		100
46)	1,2-DIBROMOETHANE	16.07	107	904120	10.33	PPBv		100
47)	TETRACHLOROETHENE	16.70	166	888102	10.60	PPBv		99
49)	1,1,1,2-TETRACHLOROETHANE	17.61	135	193533	11.78	PPBv	#	100
50)	CHLOROBENZENE	17.64	112	1399684	11.20	PPBv		98
51)	ETHYLBENZENE	18.17	91	2404945	11.44	PPBv		100
52)	M/P-XYLENE	18.43	106	1944798	23.47	PPBv		97
53)	BROMOFORM	18.54	173	925231	12.48	PPBv		100
54)	STYRENE	18.96	104	1325433	11.99	PPBv		97
55)	O-XYLENE	19.12	106	950489	11.88	PPBv		100
56)	1,1,2,2-TETRACHLOROETHANE	19.11	83	1330625	12.29	PPBv		98
58)	ISOPROPYLBENZENE	20.02	105	2512753	11.42	PPBv	#	100
59)	4-ETHYLTOLUENE	21.09	105	2888141	12.25	PPBv		100
60)	1,3,5-TRIMETHYLBENZENE	21.22	105	2420590m	12.11	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.91	105	2322527	12.51	PPBv		100
62)	1,3-DICHLOROBENZENE	22.16	146	1331762	12.03	PPBv		99
63)	BENZYL CHLORIDE	22.13	91	1195736	16.52	PPBv		99
64)	1,4-DICHLOROBENZENE	22.27	146	1308587	11.65	PPBv		99
65)	SEC-BUTYLBENZENE	22.35	105	3120248	11.74	PPBv	#	100
66)	4-ISOPROPYLTOLUENE	22.61	119	2530822	11.89	PPBv	#	98
67)	1,2-DICHLOROBENZENE	22.81	146	1245284	12.37	PPBv		100
68)	BUTYLBENZENE	23.27	91	2302467	12.03	PPBv		98
69)	1,2,4-TRICHLOROBENZENE	25.41	180	534581	10.67	PPBv		99
70)	NAPHTHALENE	25.58	128	1206071	11.09	PPBv		100
71)	HEXACHLOROBUTADIENE	26.16	225	730429	11.31	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030811\A39598.D Vial: 2
Acq On : 8 Mar 2011 7:54 am Operator: KG
Sample : 10ppbv to-15ccc Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 8 9:30 2011 Quant Results File: T1022411.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Instrument ID:	Air4	Calibration:	1103010
Lab File ID:	C07480.D	Calibration Date:	03/09/11 09:34
Sequence:	S101738	Injection Date:	03/10/11
Lab Sample ID:	S101738-CCV1	Injection Time:	08:06
Spike ID:	10J0370		

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	2.00	1.8000	9.094853	8.204506		-9.8	30
Propene	A	2.00	1.8800	3.182153	2.98897		-6.1	30
Dichlorodifluoromethane (Freon12)	A	2.00	1.7300	14.43894	12.52273		-13.3	30
Chloromethane	A	2.00	1.8200	7.513205	6.839328		-9.0	30
1,2-Dichlorotetrafluoroethane (Freon 114)	A	2.00	1.6400	18.35291	15.05799		-18.0	30
Vinyl chloride	A	2.00	1.7400	6.229449	5.408302		-13.2	30
1,3-Butadiene	A	2.00	1.6500	5.108491	4.214993		-17.5	30
Bromomethane	A	2.00	1.6500	6.585016	5.433874		-17.5	30
Chloroethane	A	2.00	1.7500	3.067734	2.68385		-12.5	30
Acetone	A	2.00	1.8500	3.318458	2.834217		-14.6	30
Trichlorofluoromethane (Freon 11)	A	2.00	1.7900	19.92114	17.79313		-10.7	30
Ethanol	A	2.00	2.0100	1.795491	1.806455		0.6	30
1,1-Dichloroethene	A	2.00	1.7400	6.562017	5.715173		-12.9	30
Acrylonitrile	A	2.00	1.8300	3.27074	2.986819		-8.7	30
Methylene chloride	A	2.00	1.6400	5.599663	4.579285		-18.2	30
1,1,2-Trichlorotrifluoroethane (Freon 113)	A	2.00	1.7200	12.1193	10.43589		-13.9	30
Carbon disulfide	A	2.00	1.8300	12.62143	11.57397		-8.3	30
trans-1,2-Dichloroethene	A	2.00	1.8500	5.069498	4.687644		-7.5	30
1,1-Dichloroethane	A	2.00	1.7400	7.69398	6.712139		-12.8	30
Methyl tert-butyl ether	A	2.00	1.9900	8.705191	8.66044		-0.5	30
Isopropyl alcohol	A	2.00	1.7200	9.483392	8.15325		-14.0	30
2-Butanone (MEK)	A	2.00	1.9700	2.154981	2.121838		-1.5	30
cis-1,2-Dichloroethene	A	2.00	1.9700	5.119787	5.040975		-1.5	30
Hexane	A	2.00	1.8000	7.332422	6.595911		-10.0	30
Ethyl acetate	A	2.00	2.0100	1.461686	1.467177		0.4	30
Chloroform	A	2.00	1.6600	9.496849	7.867686		-17.2	30
Tetrahydrofuran	A	2.00	2.1500	1.556638	1.677273		7.7	30

FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Instrument ID:	Air4	Calibration:	1103010
Lab File ID:	C07480.D	Calibration Date:	03/09/11 09:34
Sequence:	S101738	Injection Date:	03/10/11
Lab Sample ID:	S101738-CCV1	Injection Time:	08:06
Spike ID:	10J0370		

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dichloroethane	A	2.00	1.6900	5.179451	4.375092		-15.5	30
Benzene	A	2.00	1.8100	15.03838	13.61256		-9.5	30
Carbon tetrachloride	A	2.00	1.8000	10.57293	9.520756		-10.0	30
Cyclohexane	A	2.00	1.9400	7.410161	7.206003		-2.8	30
1,2-Dichloropropane	A	2.00	1.8100	1.044432	0.9456597		-9.5	30
Bromodichloromethane	A	2.00	1.8600	1.817794	1.693161		-6.9	30
Trichloroethene	A	2.00	1.9000	1.349532	1.280992		-5.1	30
1,4-Dioxane	A	2.00	1.7000	0.5051464	0.4300041		-14.9	30
n-Heptane	A	2.00	1.8700	0.9415356	0.882669		-6.3	30
4-Methyl-2-pentanone (MIBK)	A	2.00	1.9400	2.253354	2.188685		-2.9	30
cis-1,3-Dichloropropene	A	2.00	1.9800	1.351717	1.337285		-1.1	30
trans-1,3-Dichloropropene	A	2.00	2.2000	1.069883	1.17601		9.9	30
1,1,2-Trichloroethane	A	2.00	1.8600	1.046491	0.9758071		-6.8	30
Toluene	A	2.00	2.0200	3.620781	3.660069		1.1	30
2-Hexanone (MBK)	A	2.00	2.1700	0.930972	1.011853		8.7	30
Dibromochloromethane	A	2.00	1.9400	2.324886	2.256956		-2.9	30
1,2-Dibromoethane (EDB)	A	2.00	1.8500	1.982449	1.833715		-7.5	30
Tetrachloroethene	A	2.00	1.9200	1.885303	1.80808		-4.1	30
Chlorobenzene	A	2.00	1.8600	28.56671	26.63094		-6.8	30
Ethylbenzene	A	2.00	2.2300	34.87283	38.95641		11.7	30
1,1,1,2-Tetrachloroethane	A	2.00	1.9900	4.035518	4.013797		-0.5	30
m,p-Xylene	A	4.00	4.1100	17.09218	17.56469		2.8	30
Bromoform	A	2.00	2.2100	14.02625	15.48931		10.4	30
Styrene	A	2.00	2.3200	19.78133	22.91053		15.8	30
o-Xylene	A	2.00	2.0800	16.19196	16.85604		4.1	30
1,1,2,2-Tetrachloroethane	A	2.00	1.9600	20.4133	19.97027		-2.2	30
1,3,5-Trimethylbenzene	A	2.00	2.0700	34.16115	35.28118		3.3	30
4-Ethyltoluene	A	2.00	2.1800	40.10361	43.77388		9.2	30
1,2,4-Trimethylbenzene	A	2.00	2.1700	30.4633	33.03929		8.5	30

FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Instrument ID:	Air4	Calibration:	1103010
Lab File ID:	C07480.D	Calibration Date:	03/09/11 09:34
Sequence:	S101738	Injection Date:	03/10/11
Lab Sample ID:	S101738-CCV1	Injection Time:	08:06
Spike ID:	10J0370		

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Isopropylbenzene	A	2.00	2.0300	42.66644	43.2928		1.5	30
1,3-Dichlorobenzene	A	2.00	1.8900	27.95772	26.3742		-5.7	30
Benzyl chloride	A	2.00	2.0300	20.86954	21.22492		1.7	30
1,4-Dichlorobenzene	A	2.00	1.9800	25.72376	25.5118		-0.8	30
Naphthalene	A	2.00	2.3900	35.31076	42.27797		19.7	30
1,2-Dichlorobenzene	A	2.00	1.8300	23.88024	21.79223		-8.7	30
1,2,4-Trichlorobenzene	A	2.00	2.5600	11.02712	14.09156		27.8	30
Hexachlorobutadiene	A	2.00	2.0300	10.773	10.92416		1.4	30
sec-Butylbenzene	A	2.00	2.0200	55.43193	55.90544		0.9	30
4-Isopropyltoluene	A	2.00	2.0400	48.12102	49.0487		1.9	30
n-Butylbenzene	A	2.00	2.0600	38.46579	39.53681		2.8	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07480.D
Acq On : 10 Mar 2011 8:06 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 10 10:45:21 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.128	128	536919	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.333	114	2585301	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.880	54	299705	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.103	95	1118434	10.72	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 107.20%#			
Target Compounds						Qvalue
2) PROPENE	5.098	42	320967	1.88	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.174	85	1344738	1.73	PPBv #	100
4) CHLOROMETHANE	5.356	50	734433	1.82	PPBv #	100
5) FREON 114	5.463	85	1616984	1.64	PPBv #	100
6) VINYL CHLORIDE	5.598	62	580764	1.74	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.591	62	630709	1.92	PPBv #	100
8) 1,3-BUTADIENE	5.749	54	452622	1.65	PPBv #	100
9) BROMOMETHANE	6.042	94	583510	1.65	PPBv #	100
10) CHLOROETHANE	6.223	64	288202	1.75	PPBv #	100
11) ACETONE	6.828	58	304349	1.85	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.030	101	1910694	1.79	PPBv #	100
13) ETHANOL	6.312	45	193984	2.01	PPBv #	100
14) ACRYLONITRILE	5.748	53	320736	1.83	PPBv #	100
15) 1,1-DICHLOROETHENE	7.694	96	613717	1.74	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.692	96	705065	1.99	PPBv #	100
17) METHYLENE CHLORIDE	7.809	84	491741	1.64	PPBv #	100
18) FREON 113	8.088	101	1120645	1.72	PPBv #	100
19) CARBON DISULFIDE	8.161	76	1242857	1.83	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.814	96	503377	1.85	PPBv #	100
21) 1,1-DICHLOROETHANE	9.029	63	720775	1.74	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.023	63	778875	1.91	PPBv #	100
23) MTBE	9.080	73	929991	1.99	PPBv #	100
24) IPA	7.061	45	875527	1.72	PPBv #	100
25) 2-BUTANONE (MEK)	9.438	72	227851	1.97	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.941	96	541319	1.97	PPBv #	100
27) HEXANE	10.172	57	708294	1.80	PPBv #	100
28) ETHYL ACETATE	10.158	61	157551	2.01	PPBv #	100
29) CHLOROFORM	10.268	83	844862	1.66	PPBv #	100
30) TETRAHYDROFURAN	10.729	71	180112	2.15	PPBv #	100
31) 1,2-DICHLOROETHANE	11.107	62	469814	1.69	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.408	97	881031	1.80	PPBv #	100
33) BENZENE	11.944	78	1461768	1.81	PPBv	100
34) CARBON TETRACHLORIDE	12.121	119	1022375	1.80	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07480.D
Acq On : 10 Mar 2011 8:06 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 10 10:45:21 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

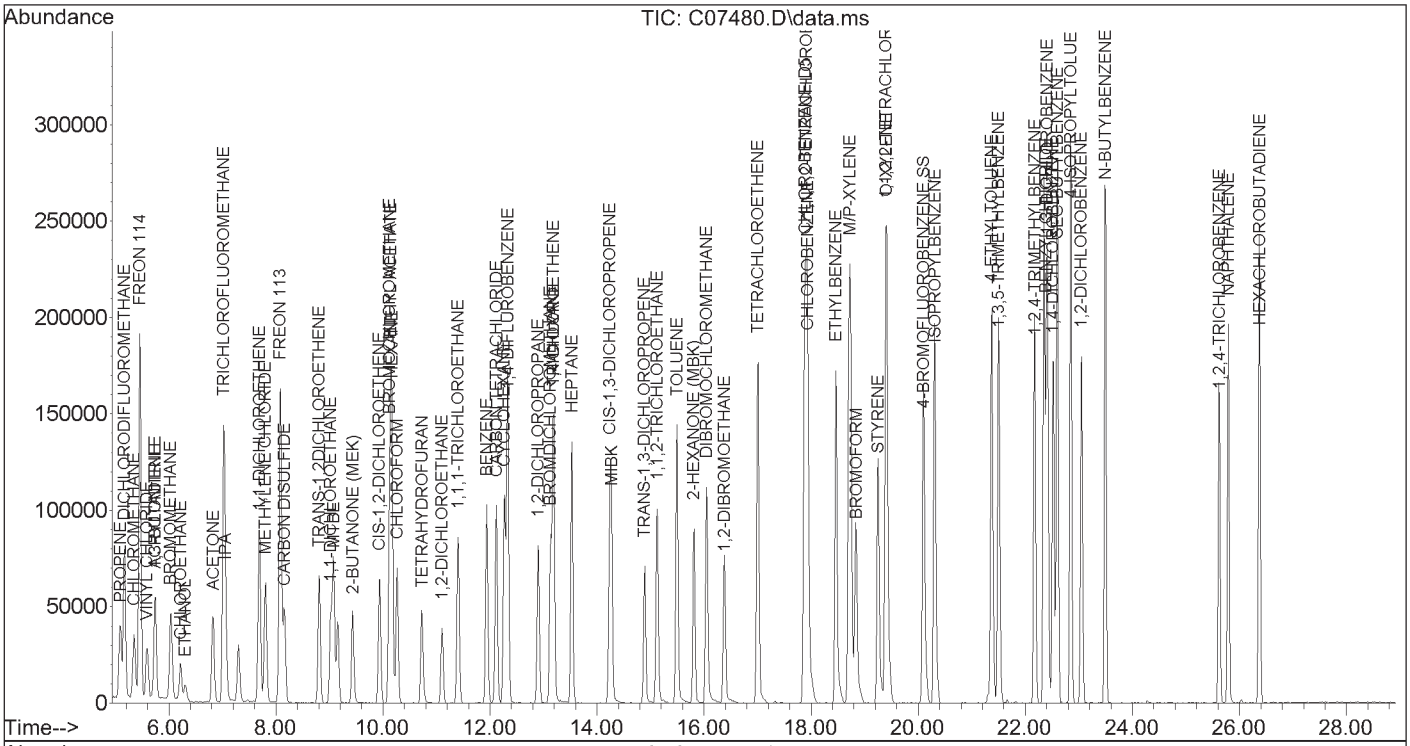
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.120	119	1114767	1.90	PPBv	#	100
36) CYCLOHEXANE	12.274	56	773808	1.94	PPBv	#	100
38) 1,2-DICHLOROPROPANE	12.904	63	488963	1.81	PPBv	#	100
39) BROMDICHLOROMETHANE	13.136	83	875466	1.86	PPBv	#	100
40) TRICHLOROETHENE	13.189	95	662350	1.90	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.186	95	752322	1.97	PPBv	#	100
42) 1,4-DIOXANE	13.189	88	222338	1.70	PPBv	#	100
43) HEPTANE	13.534	57	456393	1.87	PPBv	#	100
44) MIBK	14.271	43	1131682	1.94	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.240	75	691457	1.98	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.895	75	608068	2.20	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.126	83	504551	1.86	PPBv	#	100
48) TOLUENE	15.497	91	1892476	2.02	PPBv	#	100
49) 2-HEXANONE (MBK)	15.814	58	523189	2.17	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.051	129	1166982	1.94	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.383	107	948141	1.85	PPBv	#	100
52) TETRACHLOROETHENE	17.008	166	934886	1.92	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.008	166	1122981	1.97	PPBv	#	100
55) CHLOROBENZENE	17.942	112	1596285	1.86	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.913	135	240591	1.99	PPBv	#	100
57) ETHYLBENZENE	18.469	91	2335086	2.23	PPBv	#	100
58) M/P-XYLENE	18.729	106	2105690	4.11	PPBv	#	100
59) BROMOFORM	18.841	173	928445	2.21	PPBv	#	100
60) STYRENE	19.254	104	1373280	2.32	PPBv	#	100
61) O-XYLENE	19.416	106	1010368	2.08	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.399	83	1197038	1.96	PPBv	#	100
64) ISOPROPYLBENZENE	20.311	105	2595014	2.03	PPBv	#	100
65) 4-ETHYLTOLUENE	21.376	105	2623850	2.18	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.507	105	2114789	2.07	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.179	105	1980408	2.17	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.418	146	1580896	1.89	PPBv	#	100
69) BENZYL CHLORIDE	22.392	91	1272243	2.03	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.526	146	1529203	1.98	PPBv	#	100
71) SEC-BUTYLBENZENE	22.602	105	3351028	2.02	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.854	119	2940028	2.04	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.055	146	1306248	1.83	PPBv	#	100
74) N-BUTYLBENZENE	23.499	91	2369876	2.06	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.627	180	844662	2.56	PPBv	#	100
76) NAPHTHALENE	25.798	128	2534184	2.39	PPBv		100
77) HEXACHLOROBUTADIENE	26.378	225	654805	2.03	PPBv		100

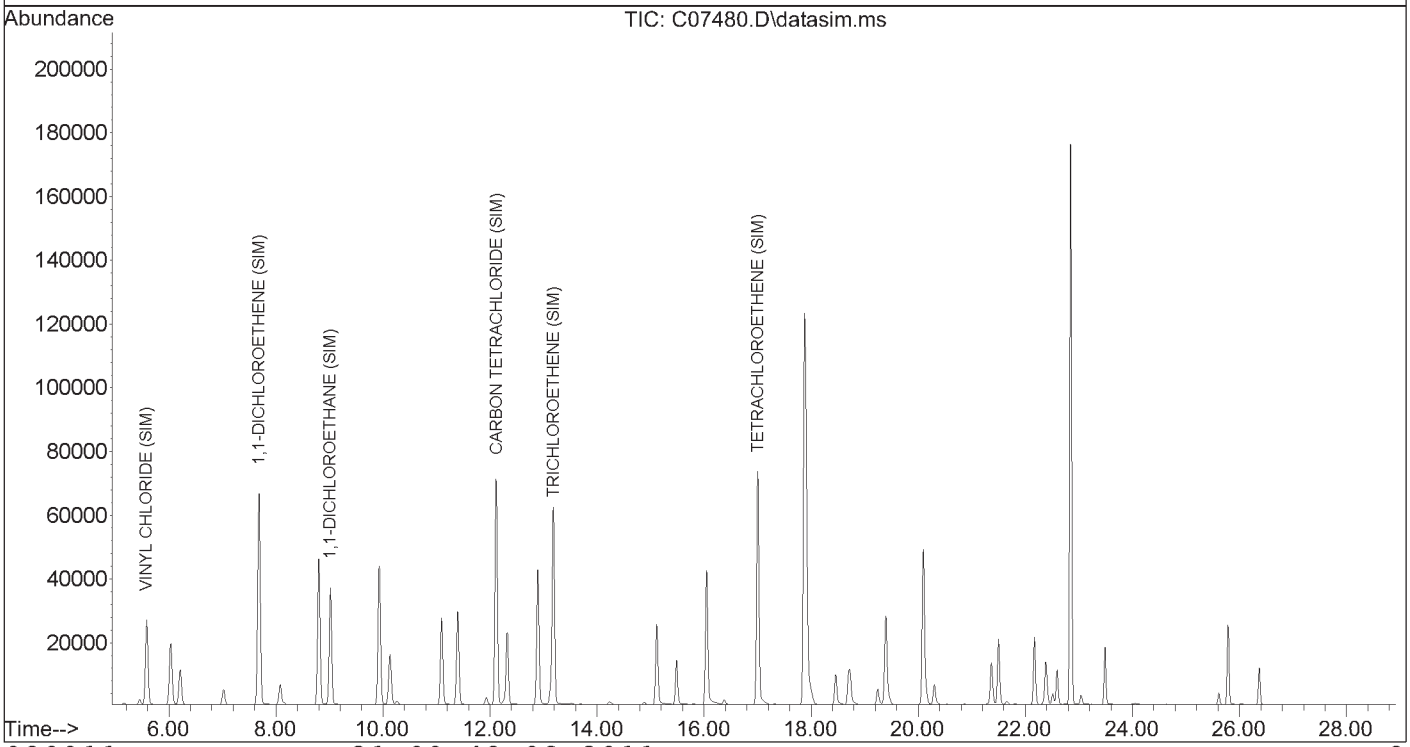
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07480.D
Acq On : 10 Mar 2011 8:06 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 10 10:45:21 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration





Evaluate Continuing Calibration Report

Data Path : G:\Mar2011\Air4\031011\
Data File : C07480.D
Acq On : 10 Mar 2011 8:06 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 10 10:45:21 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	BROMOCHLOROMETHANE	10.000	10.000	0.0	111	0.00
2	PROPENE	2.000	1.879	6.0	112	0.00
3	DICHLORODIFLUOROMETHANE	2.000	1.735	13.2	112	0.00
4	CHLOROMETHANE	2.000	1.821	9.0	116	0.00
5	FREON 114	2.000	1.641	17.9	108	0.00
6	VINYL CHLORIDE	2.000	1.736	13.2	106	0.00
7	VINYL CHLORIDE (SIM)	2.000	1.924	3.8	108	0.00
8	1,3-BUTADIENE	2.000	1.650	17.5	106	0.00
9	BROMOMETHANE	2.000	1.650	17.5	105	0.00
10	CHLOROETHANE	2.000	1.750	12.5	110	0.00
11	ACETONE	2.000	1.847	7.7	111	0.00
12	TRICHLOROFLUOROMETHANE	2.000	1.786	10.7	119	0.00
13	ETHANOL	2.000	2.012	-0.6	112	0.00
14	ACRYLONITRILE	2.000	1.826	8.7	110	0.00
15	1,1-DICHLOROETHENE	2.000	1.742	12.9	114	0.00
16	1,1-DICHLOROETHENE (SIM)	2.000	1.990	0.5	113	0.00
17	METHYLENE CHLORIDE	2.000	1.636	18.2	109	0.00
18	FREON 113	2.000	1.722	13.9	109	0.00
19	CARBON DISULFIDE	2.000	1.834	8.3	106	0.00
20	TRANS-1,2DICHLOROETHENE	2.000	1.849	7.6	109	0.00
21	1,1-DICHLOROETHANE	2.000	1.745	12.7	111	0.00
22	1,1-DICHLOROETHANE (SIM)	2.000	1.910	4.5	108	0.00
23	MTBE	2.000	1.990	0.5	113	0.00
24	IPA	2.000	1.719	14.0	111	0.00
25	2-BUTANONE (MEK)	2.000	1.969	1.5	107	0.00
26	CIS-1,2-DICHLOROETHENE	2.000	1.969	1.5	115	0.00
27	HEXANE	2.000	1.799	10.1	106	0.00
28	ETHYL ACETATE	2.000	2.008	-0.4	114	0.00
29	CHLOROFORM	2.000	1.657	17.1	109	0.00
30	TETRAHYDROFURAN	2.000	2.155	-7.7	110	0.00
31	1,2-DICHLOROETHANE	2.000	1.689	15.5	109	0.00
32	1,1,1-TRICHLOROETHANE	2.000	1.804	9.8	115	0.00
33	BENZENE	2.000	1.810	9.5	110	0.00
34	CARBON TETRACHLORIDE	2.000	1.801	10.0	110	0.00
35	CARBON TETRACHLORIDE (SIM)	2.000	1.900	5.0	107	0.00
36	CYCLOHEXANE	2.000	1.945	2.7	109	0.00
37	1,4-DIFLUROBENZENE	10.000	10.000	0.0	109	0.00
38	1,2-DICHLOROPROPANE	2.000	1.811	9.5	108	0.00

Evaluate Continuing Calibration Report

Data Path : G:\Mar2011\Air4\031011\
Data File : C07480.D
Acq On : 10 Mar 2011 8:06 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 10 10:45:21 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39		BROMDICHLOROMETHANE	2.000	1.863	6.9	111	0.00
40		TRICHLOROETHENE	2.000	1.898	5.1	110	0.00
41		TRICHLOROETHENE (SIM)	2.000	1.966	1.7	107	0.00
42		1,4-DIOXANE	2.000	1.702	14.9	86	0.00
43		HEPTANE	2.000	1.875	6.3	107	0.00
44		MIBK	2.000	1.943	2.8	108	0.00
45		CIS-1,3-DICHLOROPROPENE	2.000	1.979	1.0	105	0.00
46		TRANS-1,3-DICHLOROPROPENE	2.000	2.198	-9.9	113	0.00
47		1,1,2-TRICHLOROETHANE	2.000	1.865	6.8	109	0.00
48		TOLUENE	2.000	2.022	-1.1	110	0.00
49		2-HEXANONE (MBK)	2.000	2.174	-8.7	111	0.00
50		DIBROMOCHLOROMETHANE	2.000	1.942	2.9	108	0.00
51		1,2-DIBROMOETHANE	2.000	1.850	7.5	102	0.00
52		TETRACHLOROETHENE	2.000	1.918	4.1	111	0.00
53		TETRACHLOROETHENE (SIM)	2.000	1.972	1.4	109	0.00
54		CHLOROBENZENE-D5	10.000	10.000	0.0	97	0.00
55		CHLOROBENZENE	2.000	1.864	6.8	106	0.00
56		1,1,1,2-TETRACHLOROETHANE	2.000	1.989	0.5	108	0.00
57		ETHYLBENZENE	2.000	2.234	-11.7	111	0.00
58		M/P-XYLENE	4.000	4.111	-2.8	106	0.00
59		BROMOFORM	2.000	2.209	-10.5	109	0.00
60		STYRENE	2.000	2.316	-15.8	112	0.00
61		O-XYLENE	2.000	2.082	-4.1	108	0.00
62		1,1,2,2-TETRACHLOROETHANE	2.000	1.957	2.1	105	0.00
63	SS	4-BROMOFLUOROBENZENE	10.000	10.716	-7.2	106	0.00
64		ISOPROPYLBENZENE	2.000	2.029	-1.4	103	0.00
65		4-ETHYLTOLUENE	2.000	2.183	-9.1	104	0.00
66		1,3,5-TRIMETHYLBENZENE	2.000	2.066	-3.3	106	0.00
67		1,2,4-TRIMETHYLBENZENE	2.000	2.169	-8.5	105	0.00
68		1,3-DICHLOROBENZENE	2.000	1.887	5.6	109	0.00
69		BENZYL CHLORIDE	2.000	2.034	-1.7	108	0.00
70		1,4-DICHLOROBENZENE	2.000	1.984	0.8	106	0.00
71		SEC-BUTYLBENZENE	2.000	2.017	-0.8	105	0.00
72		4-ISOPROPYLTOLUENE	2.000	2.039	-2.0	105	0.00
73		1,2-DICHLOROBENZENE	2.000	1.825	8.8	102	0.00
74		N-BUTYLBENZENE	2.000	2.056	-2.8	104	0.00
75		1,2,4-TRICHLOROBENZENE	2.000	2.556	-27.8	119	0.00
76		NAPHTHALENE	2.000	2.395	-19.8	114	0.00

Evaluate Continuing Calibration Report

Data Path : G:\Mar2011\Air4\031011\
Data File : C07480.D
Acq On : 10 Mar 2011 8:06 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 10 10:45:21 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
77	HEXACHLOROBUTADIENE	2.000	2.028	-1.4	108	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Instrument ID:	Air2	Calibration:	1102028
Lab File ID:	B36749.D	Calibration Date:	02/15/11 08:22
Sequence:	S101779	Injection Date:	03/11/11
Lab Sample ID:	S101779-CCV1	Injection Time:	07:23
Spike ID:	10C0079		

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Propene	A	10.0	8.90	0.738359	0.6573074		-11.0	30
Dichlorodifluoromethane (Freon12)	A	10.0	9.64	3.191431	3.075681		-3.6	30
Chloromethane	A	10.0	9.12	1.445596	1.318675		-8.8	30
1,2-Dichlorotetrafluoroethane (Freon 114)	A	10.0	9.64	3.543189	3.415443		-3.6	30
Vinyl chloride	A	10.0	9.35	1.206595	1.128048		-6.5	30
1,3-Butadiene	A	10.0	9.30	0.8598325	0.7995891		-7.0	30
Bromomethane	A	10.0	9.71	1.070781	1.039951		-2.9	30
Chloroethane	A	10.0	9.47	0.5203668	0.4927422		-5.3	30
Acetone	A	10.0	9.76	0.3711433	0.362232		-2.4	30
Trichlorofluoromethane (Freon 11)	A	10.0	10.4	3.298155	3.425322		3.9	30
Ethanol	A	10.0	10.3	0.280313	0.2894078		3.2	30
1,1-Dichloroethene	A	10.0	9.76	0.8687904	0.8480014		-2.4	30
Acrylonitrile	A	10.0	10.1	0.4372683	0.4419939		1.1	30
Methylene chloride	A	10.0	9.79	0.7218292	0.7067364		-2.1	30
1,1,2-Trichlorotrifluoroethane (Freon 113)	A	10.0	9.85	2.030788	2.00077		-1.5	30
Carbon disulfide	A	10.0	9.24	2.33906	2.161286		-7.6	30
trans-1,2-Dichloroethene	A	10.0	8.69	1.123635	0.9761474		-13.1	30
1,1-Dichloroethane	A	10.0	9.21	2.213709	2.038928		-7.9	30
Methyl tert-butyl ether	A	10.0	9.58	2.687832	2.575076		-4.2	30
Isopropyl alcohol	A	10.0	9.05	1.217938	1.102425		-9.5	30
2-Butanone (MEK)	A	10.0	9.67	0.5270953	0.5095059		-3.3	30
cis-1,2-Dichloroethene	A	10.0	9.10	1.162495	1.057879		-9.0	30
Hexane	A	10.0	9.56	1.885478	1.803209		-4.4	30
Ethyl acetate	A	10.0	10.6	0.3725842	0.3929519		5.5	30
Chloroform	A	10.0	9.52	2.589336	2.466255		-4.8	30
Tetrahydrofuran	A	10.0	9.90	0.4271486	0.4230526		-1.0	30
1,2-Dichloroethane	A	10.0	9.23	1.571729	1.45011		-7.7	30

FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Instrument ID:	Air2	Calibration:	1102028
Lab File ID:	B36749.D	Calibration Date:	02/15/11 08:22
Sequence:	S101779	Injection Date:	03/11/11
Lab Sample ID:	S101779-CCV1	Injection Time:	07:23
Spike ID:	10C0079		

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	10.0	9.52	2.495553	2.37495		-4.8	30
Benzene	A	10.0	9.40	3.603914	3.386306		-6.0	30
Carbon tetrachloride	A	10.0	9.96	2.359396	2.350292		-0.4	30
Cyclohexane	A	10.0	9.37	1.903438	1.783082		-6.3	30
1,2-Dichloropropane	A	10.0	8.92	0.300582	0.2680832		-10.8	30
Bromodichloromethane	A	10.0	9.00	0.5658222	0.5090759		-10.0	30
Trichloroethene	A	10.0	9.06	0.3375886	0.3058543		-9.4	30
1,4-Dioxane	A	10.0	8.59	0.1230705	0.1056895		-14.1	30
n-Heptane	A	10.0	9.50	0.2546733	0.2419006		-5.0	30
4-Methyl-2-pentanone (MIBK)	A	10.0	9.20	0.6056325	0.5574505		-8.0	30
cis-1,3-Dichloropropene	A	10.0	9.01	0.3988795	0.3592347		-9.9	30
trans-1,3-Dichloropropene	A	10.0	9.08	0.3378453	0.3066464		-9.2	30
1,1,2-Trichloroethane	A	10.0	9.39	0.2823624	0.265035		-6.1	30
Toluene	A	10.0	9.55	0.8791653	0.8398488		-4.5	30
2-Hexanone (MBK)	A	10.0	9.09	0.2476503	0.225128		-9.1	30
Dibromochloromethane	A	10.0	9.71	0.5332869	0.517724		-2.9	30
1,2-Dibromoethane (EDB)	A	10.0	9.30	0.4653512	0.4330078		-7.0	30
Tetrachloroethene	A	10.0	9.54	0.4220557	0.4027611		-4.6	30
Chlorobenzene	A	10.0	10.0	1.384515	1.390089		0.4	30
Ethylbenzene	A	10.0	10.5	2.07744	2.183695		5.1	30
1,1,1,2-Tetrachloroethane	A	10.0	9.88	0.7636508	0.7546976		-1.2	30
m,p-Xylene	A	20.0	21.6	0.8326141	0.9013879		8.3	30
Bromoform	A	10.0	11.0	0.8805992	0.9727661		10.5	30
Styrene	A	10.0	11.1	1.061692	1.17399		10.6	30
o-Xylene	A	10.0	11.1	0.8154976	0.9030076		10.7	30
1,1,2,2-Tetrachloroethane	A	10.0	10.7	1.309715	1.399868		6.9	30
1,3,5-Trimethylbenzene	A	10.0	10.7	1.873093	2.010549		7.3	30
4-Ethyltoluene	A	10.0	10.9	2.228412	2.42096		8.6	30
1,2,4-Trimethylbenzene	A	10.0	11.3	1.773653	1.998087		12.7	30

FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Instrument ID:	Air2	Calibration:	1102028
Lab File ID:	B36749.D	Calibration Date:	02/15/11 08:22
Sequence:	S101779	Injection Date:	03/11/11
Lab Sample ID:	S101779-CCV1	Injection Time:	07:23
Spike ID:	10C0079		

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Isopropylbenzene	A	10.0	10.0	2.350233	2.357136		0.3	30
1,3-Dichlorobenzene	A	10.0	11.1	1.331075	1.482789		11.4	30
Benzyl chloride	A	10.0	11.9	1.301127	1.550392		19.2	30
1,4-Dichlorobenzene	A	10.0	11.5	1.317784	1.510496		14.6	30
Naphthalene	A	10.0	10.7	1.314893	1.410008		7.2	30
1,2-Dichlorobenzene	A	10.0	11.4	1.223479	1.396311		14.1	30
1,2,4-Trichlorobenzene	A	10.0	10.6	0.6328065	0.6687865		5.7	30
Hexachlorobutadiene	A	10.0	10.5	0.6802009	0.7170747		5.4	30
sec-Butylbenzene	A	10.0	10.5	2.876513	3.007742		4.6	30
4-Isopropyltoluene	A	10.0	10.6	2.243544	2.379437		6.1	30
n-Butylbenzene	A	10.0	10.4	2.050652	2.137587		4.2	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

Evaluate Continuing Calibration Report

Data File : G:\MAR2011\AIR2\031111\B36749.D Vial: 9
Acq On : 11 Mar 2011 7:23 am Operator: KG
Sample : 10ppbv to-15ccc Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E

Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	81	0.00
2		PROPENE	0.738	0.657	11.0	90	0.00
3		DICHLORODIFLUOROMETHANE	3.191	3.076	3.6	96	0.00
4		CHLOROMETHANE	1.446	1.319	8.8	90	0.00
5		FREON 114	3.543	3.415	3.6	94	0.00
6		VINYL CHLORIDE	1.207	1.128	6.5	91	0.00
7		1,3-BUTADIENE	0.860	0.800	7.0	90	0.00
8		BROMOMETHANE	1.071	1.040	2.9	96	0.00
9		CHLOROETHANE	0.520	0.493	5.2	96	0.00
10		ACETONE	0.371	0.362	2.4	97	0.00
11		TRICHLOROFLUOROMETHANE	3.298	3.425	-3.9	103	0.00
12		ETHANOL	0.280	0.289	-3.2	96	0.02
13		ACRYLONITRILE	0.437	0.442	-1.1	98	0.00
14		1,1-DICHLOROETHENE	0.869	0.848	2.4	96	0.00
15		METHYLENE CHLORIDE	0.722	0.707	2.1	97	0.00
16		FREON 113	2.031	2.001	1.5	96	0.00
17		CARBON DISULFIDE	2.339	2.161	7.6	91	0.00
18		TRANS-1,2-DICHLOROETHENE	1.124	0.976	13.2	86	0.00
19		1,1-DICHLOROETHANE	2.214	2.039	7.9	92	0.00
20		MTBE	2.688	2.575	4.2	94	0.00
21		IPA	1.218	1.102	9.5	91	0.02
22		2-BUTANONE(MEK)	0.527	0.510	3.2	90	0.00
23		CIS-1,2-DICHLOROETHENE	1.162	1.058	9.0	89	0.00
24		HEXANE	1.885	1.803	4.4	92	0.00
25		ETHYL ACETATE	0.373	0.393	-5.4	95	0.00
26		CHLOROFORM	2.589	2.466	4.8	96	0.00
27		TETRAHYDROFURAN	0.427	0.423	0.9	89	0.00
28		1,2-DICHLOROETHANE	1.572	1.450	7.8	92	0.00
29		1,1,1-TRICHLOROETHANE	2.496	2.375	4.8	97	0.00
30		BENZENE	3.604	3.386	6.0	91	0.00
31		CARBON TETRACHLORIDE	2.359	2.350	0.4	102	0.00
32		CYCLOHEXANE	1.903	1.783	6.3	89	0.00
33	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	84	0.00
34		1,2-DICHLOROPROPANE	0.301	0.268	11.0	92	0.00
35		BROMODICHLOROMETHANE	0.566	0.509	10.1	95	0.00
36		TRICHLOROETHENE	0.338	0.306	9.5	93	0.00
37		1,4-DIOXANE	0.123	0.106	13.8	85	0.00
38		HEPTANE	0.255	0.242	5.1	93	0.00
39		MIBK	0.606	0.557	8.1	93	0.00
40		CIS-1,3DICHLOROPROPENE	0.399	0.359	10.0	91	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : G:\MAR2011\AIR2\031111\B36749.D Vial: 9
Acq On : 11 Mar 2011 7:23 am Operator: KG
Sample : 10ppbv to-15ccc Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E

Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		TRANS-1,3-DICHLOROPROPENE	0.338	0.307	9.2	94	0.00
42		1,1,2-TRICHLOROETHANE	0.282	0.265	6.0	97	0.00
43		TOLUENE	0.879	0.840	4.4	94	0.00
44		2-HEXANONE(MBK)	0.248	0.225	9.3	86	0.00
45		DIBROMOCHLOROMETHANE	0.533	0.518	2.8	101	0.00
46		1,2-DIBROMOETHANE	0.465	0.433	6.9	96	0.00
47		TETRACHLOROETHENE	0.422	0.403	4.5	98	0.00
48	I	CHLOROBENZENE-D5	1.000	1.000	0.0	85	0.00
49		CHLOROBENZENE	1.385	1.390	-0.4	98	0.00
50		1,1,1,2-TETRACHLOROETHANE	0.764	0.755	1.2	95	0.00
51		ETHYLBENZENE	2.077	2.184	-5.2	97	0.00
52		M/P-XYLENE	0.833	0.901	-8.2	99	0.00
53		BROMOFORM	0.881	0.973	-10.4	107	0.00
54		STYRENE	1.062	1.174	-10.5	98	0.00
55		O-XYLENE	0.815	0.903	-10.8	101	0.00
56		1,1,2,2-TETRACHLOROETHANE	1.310	1.400	-6.9	99	0.00
57	SS	4-BROMOFLUOROBENZENE	1.083	1.187	-9.6	89	0.00
58		ISOPROPYLBENZENE	2.350	2.357	-0.3	92	0.00
59		4-ETHYLTOLUENE	2.228	2.421	-8.7	95	0.00
60		1,3,5-TRIMETHYLBENZENE	1.873	2.011	-7.4	96	0.00
61		1,2,4-TRIMETHYLBENZENE	1.774	1.998	-12.6	99	0.00
62		1,3-DICHLOROBENZENE	1.331	1.483	-11.4	99	0.00
63		BENZYL CHLORIDE	1.301	1.550	-19.1	109	0.00
64		1,4-DICHLOROBENZENE	1.318	1.510	-14.6	102	0.00
65		SEC-BUTYLBENZENE	2.877	3.008	-4.6	90	0.00
66		4-ISOPROPYLTOLUENE	2.244	2.379	-6.0	90	0.00
67		1,2-DICHLOROBENZENE	1.223	1.396	-14.1	101	0.00
68		N-BUTYLBENZENE	2.051	2.138	-4.2	88	0.00
69		1,2,4-TRICHLOROBENZENE	0.633	0.669	-5.7	98	0.00
70		NAPHTHALENE	1.315	1.410	-7.2	86	0.00
71		HEXACHLOROBUTADIENE	0.680	0.717	-5.4	102	0.00

Quantitation Report (QT Reviewed)

Data File : G:\MAR2011\AIR2\031111\B36749.D Vial: 9
Acq On : 11 Mar 2011 7:23 am Operator: KG
Sample : 10ppbv to-15ccc Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 11 8:53 2011 Quant Results File: T2021511H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.28	128	284246	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	11.50	114	1390005	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.08	82	694869	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.33	95	824666	10.95	PPBv		0.00
Spiked Amount 10.000	Range 9 - 15		Recovery = 109.50%#				
Target Compounds							Qvalue
2) PROPENE	4.42	42	186837	8.90	PPBv		95
3) DICHLORODIFLUOROMETHANE	4.49	85	874250	9.64	PPBv		100
4) CHLOROMETHANE	4.65	50	374828	9.12	PPBv	#	100
5) FREON 114	4.75	85	970826	9.64	PPBv		97
6) VINYL CHLORIDE	4.87	62	320643	9.35	PPBv		100
7) 1,3-BUTADIENE	5.01	54	227280	9.30	PPBv		97
8) BROMOMETHANE	5.28	94	295602	9.71	PPBv		100
9) CHLOROETHANE	5.45	64	140060	9.47	PPBv		97
10) ACETONE	6.06	58	102963	9.76	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.21	101	973634	10.39	PPBv		100
12) ETHANOL	5.59	45	82263	10.32	PPBv	#	77
13) ACRYLONITRILE	6.51	53	125635	10.11	PPBv	#	100
14) 1,1-DICHLOROETHENE	6.85	96	241041	9.76	PPBv	#	100
15) METHYLENE CHLORIDE	6.98	84	200887	9.79	PPBv	#	100
16) FREON 113	7.24	101	568711	9.85	PPBv	#	100
17) CARBON DISULFIDE	7.30	76	614337	9.24	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	7.96	96	277466	8.69	PPBv	#	100
19) 1,1-DICHLOROETHANE	8.18	63	579557	9.21	PPBv	#	100
20) MTBE	8.26	73	731955	9.58	PPBv	#	100
21) IPA	6.31	45	313360	9.05	PPBv	#	100
22) 2-BUTANONE(MEK)	8.63	72	144825	9.67	PPBv	#	100
23) CIS-1,2-DICHLOROETHENE	9.09	96	300698	9.10	PPBv	#	100
24) HEXANE	9.31	57	512555	9.56	PPBv	#	100
25) ETHYL ACETATE	9.35	61	111695	10.55	PPBv	#	100
26) CHLOROFORM	9.42	83	701023	9.52	PPBv	#	100
27) TETRAHYDROFURAN	9.92	71	120251	9.90	PPBv	#	100
28) 1,2-DICHLOROETHANE	10.26	62	412188	9.23	PPBv	#	100
29) 1,1,1-TRICHLOROETHANE	10.55	97	675070	9.52	PPBv	#	100
30) BENZENE	11.09	78	962544	9.40	PPBv		100
31) CARBON TETRACHLORIDE	11.27	119	668061	9.96	PPBv	#	100
32) CYCLOHEXANE	11.41	56	506834	9.37	PPBv	#	100
34) 1,2-DICHLOROPROPANE	12.07	63	372637	8.92	PPBv	#	100
35) BROMODICHLOROMETHANE	12.30	83	707618	9.00	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\MAR2011\AIR2\031111\B36749.D Vial: 9
Acq On : 11 Mar 2011 7:23 am Operator: KG
Sample : 10ppbv to-15ccc Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 11 8:53 2011 Quant Results File: T2021511H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

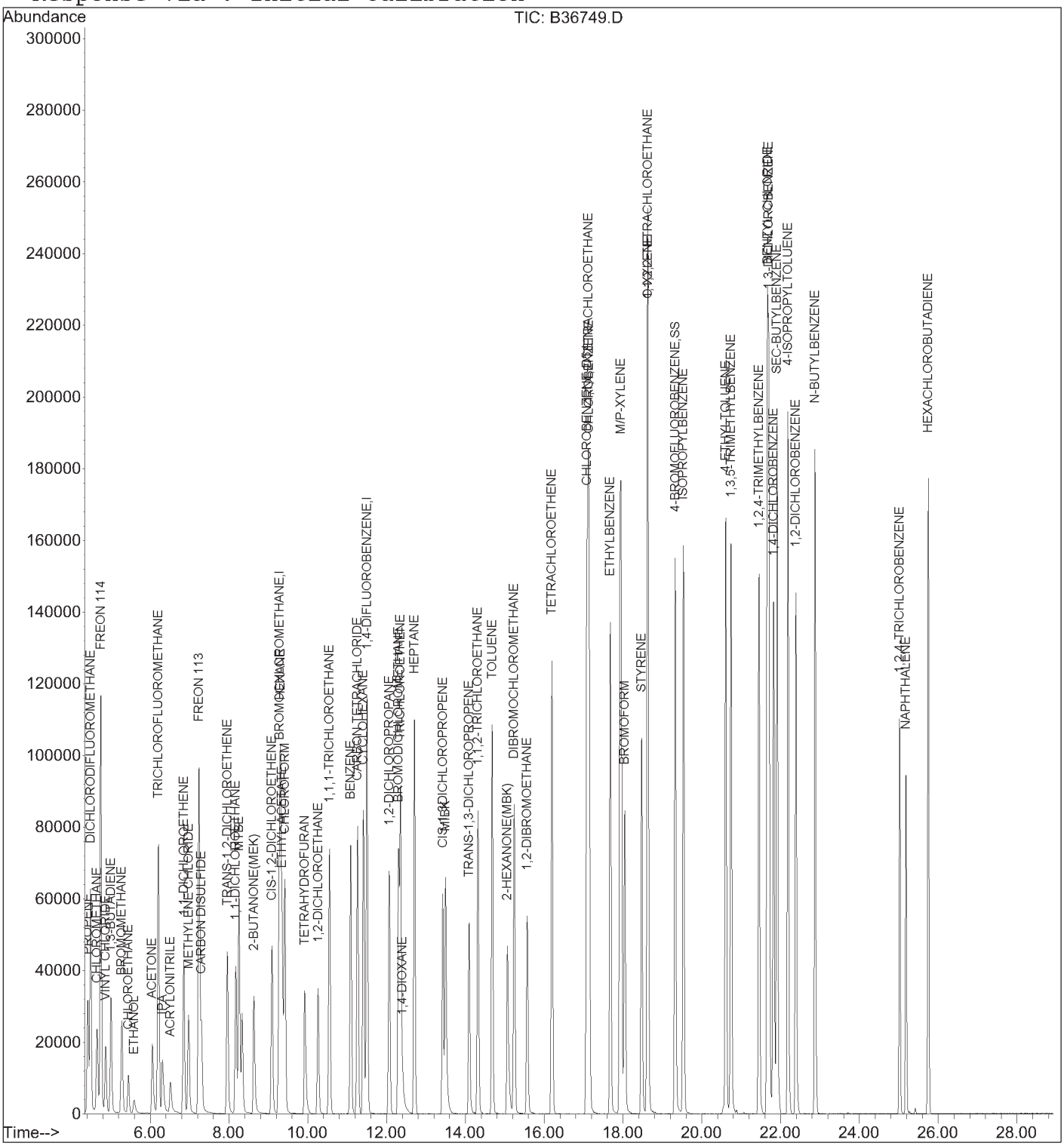
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	TRICHLOROETHENE	12.36	95	425139	9.06	PPBv	#	100
37)	1,4-DIOXANE	12.41	88	146909	8.59	PPBv	#	100
38)	HEPTANE	12.71	57	336243	9.50	PPBv	#	100
39)	MIBK	13.50	43	774859	9.20	PPBv	#	100
40)	CIS-1,3DICHLOROPROPENE	13.43	75	499338	9.01	PPBv	#	100
41)	TRANS-1,3-DICHLOROPROPENE	14.10	75	426240	9.08	PPBv	#	100
42)	1,1,2-TRICHLOROETHANE	14.32	83	368400	9.39	PPBv	#	100
43)	TOLUENE	14.68	91	1167394	9.55	PPBv	#	100
44)	2-HEXANONE(MBK)	15.07	58	312929	9.09	PPBv	#	100
45)	DIBROMOCHLOROMETHANE	15.24	129	719639	9.71	PPBv	#	100
46)	1,2-DIBROMOETHANE	15.57	107	601883	9.30	PPBv	#	100
47)	TETRACHLOROETHENE	16.20	166	559840	9.54	PPBv	#	100
49)	CHLOROBENZENE	17.14	112	965930	10.04	PPBv		98
50)	1,1,1,2-TETRACHLOROETHANE	17.12	131	524416	9.88	PPBv	#	100
51)	ETHYLBENZENE	17.68	91	1517382	10.51	PPBv	#	100
52)	M/P-XYLENE	17.94	106	1252693	21.65	PPBv		90
53)	BROMOFORM	18.05	173	675945	11.05	PPBv		97
54)	STYRENE	18.47	104	815769	11.06	PPBv	#	100
55)	O-XYLENE	18.63	106	627472	11.07	PPBv		95
56)	1,1,2,2-TETRACHLOROETHANE	18.63	83	972725	10.69	PPBv	#	100
58)	ISOPROPYLBENZENE	19.54	105	1637901	10.03	PPBv	#	100
59)	4-ETHYLTOLUENE	20.61	105	1682250	10.86	PPBv	#	87
60)	1,3,5-TRIMETHYLBENZENE	20.74	105	1397068	10.73	PPBv	#	100
61)	1,2,4-TRIMETHYLBENZENE	21.45	105	1388409	11.27	PPBv		95
62)	1,3-DICHLOROBENZENE	21.71	146	1030344	11.14	PPBv		99
63)	BENZYL CHLORIDE	21.68	91	1077319	11.92	PPBv		99
64)	1,4-DICHLOROBENZENE	21.82	146	1049597	11.46	PPBv	#	73
65)	SEC-BUTYLBENZENE	21.91	105	2089987	10.46	PPBv		99
66)	4-ISOPROPYLTOLUENE	22.19	119	1653397	10.61	PPBv		97
67)	1,2-DICHLOROBENZENE	22.39	146	970253	11.41	PPBv		98
68)	N-BUTYLBENZENE	22.88	91	1485343	10.42	PPBv		99
69)	1,2,4-TRICHLOROBENZENE	25.02	180	464719	10.57	PPBv		98
70)	NAPHTHALENE	25.18	128	979771	10.72	PPBv		100
71)	HEXACHLOROBUTADIENE	25.75	225	498273	10.54	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\MAR2011\AIR2\031111\B36749.D Vial: 9
Acq On : 11 Mar 2011 7:23 am Operator: KG
Sample : 10ppbv to-15ccc Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 11 8:53 2011 Quant Results File: T2021511H.RE

Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration



GC/MS Volatile Organics
Method TO-15

Raw Quality Control Data

FORM V -
MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Lab File ID:	B36424.D	Injection Date:	02/15/11
Instrument ID:	Air2	Injection Time:	14:35
Sequence:	S101178	Lab Sample ID:	S101178-TUN1

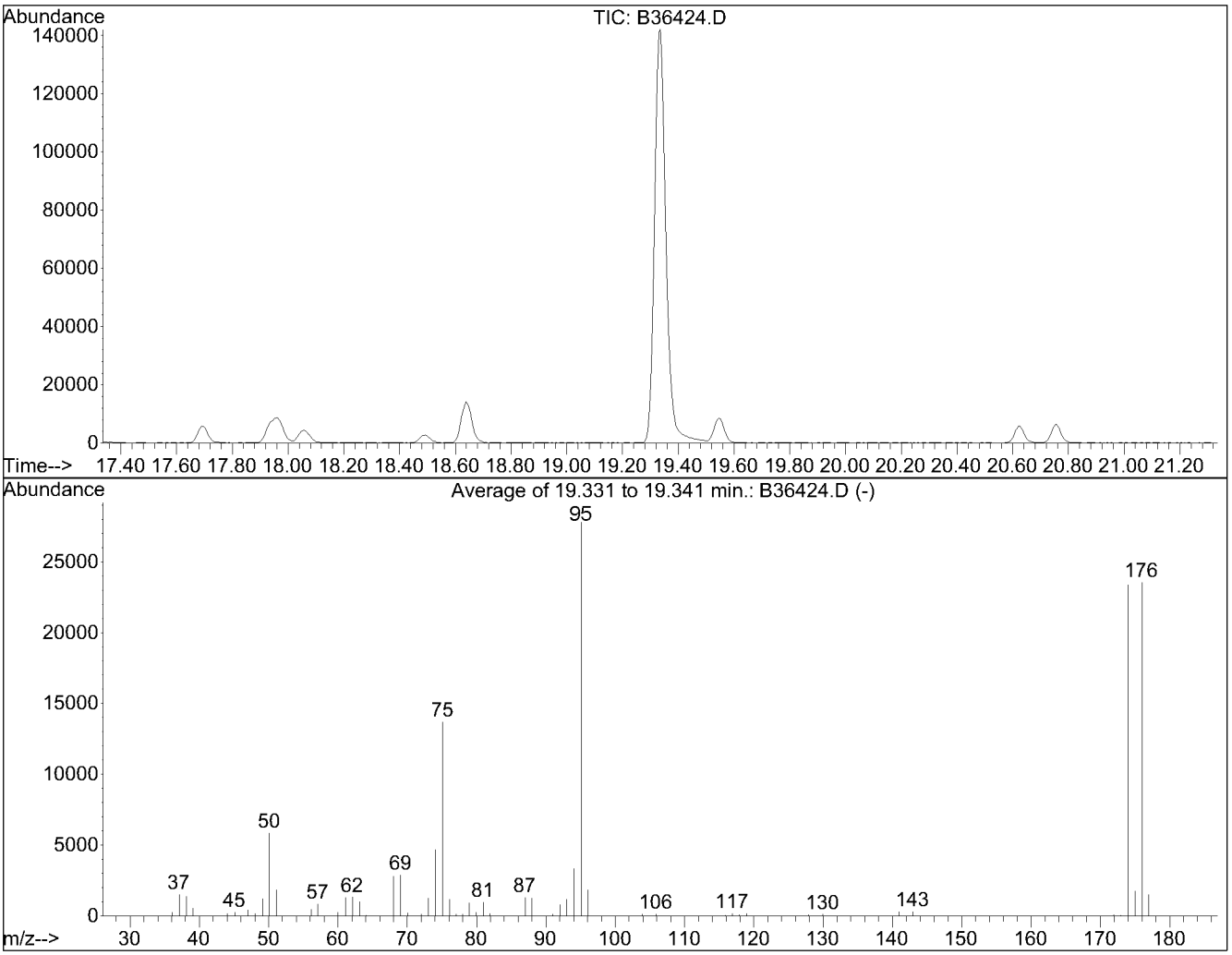
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21	PASS
75	30 - 60% of 95	49.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.71	PASS
173	Less than 2% of 174	0.257	PASS
174	50 - 100% of 95	84	PASS
175	5 - 9% of 174	7.51	PASS
176	95 - 101% of 174	101	PASS
177	5 - 9% of 176	6.42	PASS

This check applies to the following samples, blanks, and standards:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
S101178-CAL1	Cal Standard	B36424.D	02/15/11	14:35
S101178-CAL2	Cal Standard	B36425.D	02/15/11	15:16
S101178-CAL3	Cal Standard	B36426.D	02/15/11	15:57
S101178-CAL4	Cal Standard	B36427.D	02/15/11	16:37
S101178-CAL5	Cal Standard	B36428.D	02/15/11	17:19
S101178-CAL6	Cal Standard	B36430.D	02/15/11	18:41
S101178-CAL7	Cal Standard	B36431.D	02/15/11	19:22
S101178-CAL8	Cal Standard	B36432.D	02/15/11	20:03
S101178-ICV1	Initial Cal Check	B36435.D	02/15/11	22:06

BFB

Data File : G:\FEB2011\AIR2\021511\B36424.D Vial: 2
Acq On : 15 Feb 2011 2:35 pm Operator: KG
Sample : 0.5ppbv to-15std Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :



AutoFind: Scans 2990, 2991, 2992; Background Corrected with Scan 2977

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	5845	PASS
75	95	30	60	49.3	13700	PASS
95	95	100	100	100.0	27811	PASS
96	95	5	9	6.7	1866	PASS
173	174	0.00	2	0.3	60	PASS
174	95	50	100	84.0	23368	PASS
175	174	5	9	7.5	1754	PASS
176	174	95	101	100.8	23547	PASS
177	176	5	9	6.4	1513	PASS

B36424.D T2021511H.M Mon Mar 21 10:18:16 2011

FORM V -
MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Lab File ID:	A39457.D	Injection Date:	02/24/11
Instrument ID:	Air1	Injection Time:	15:58
Sequence:	S101529	Lab Sample ID:	S101529-TUN1

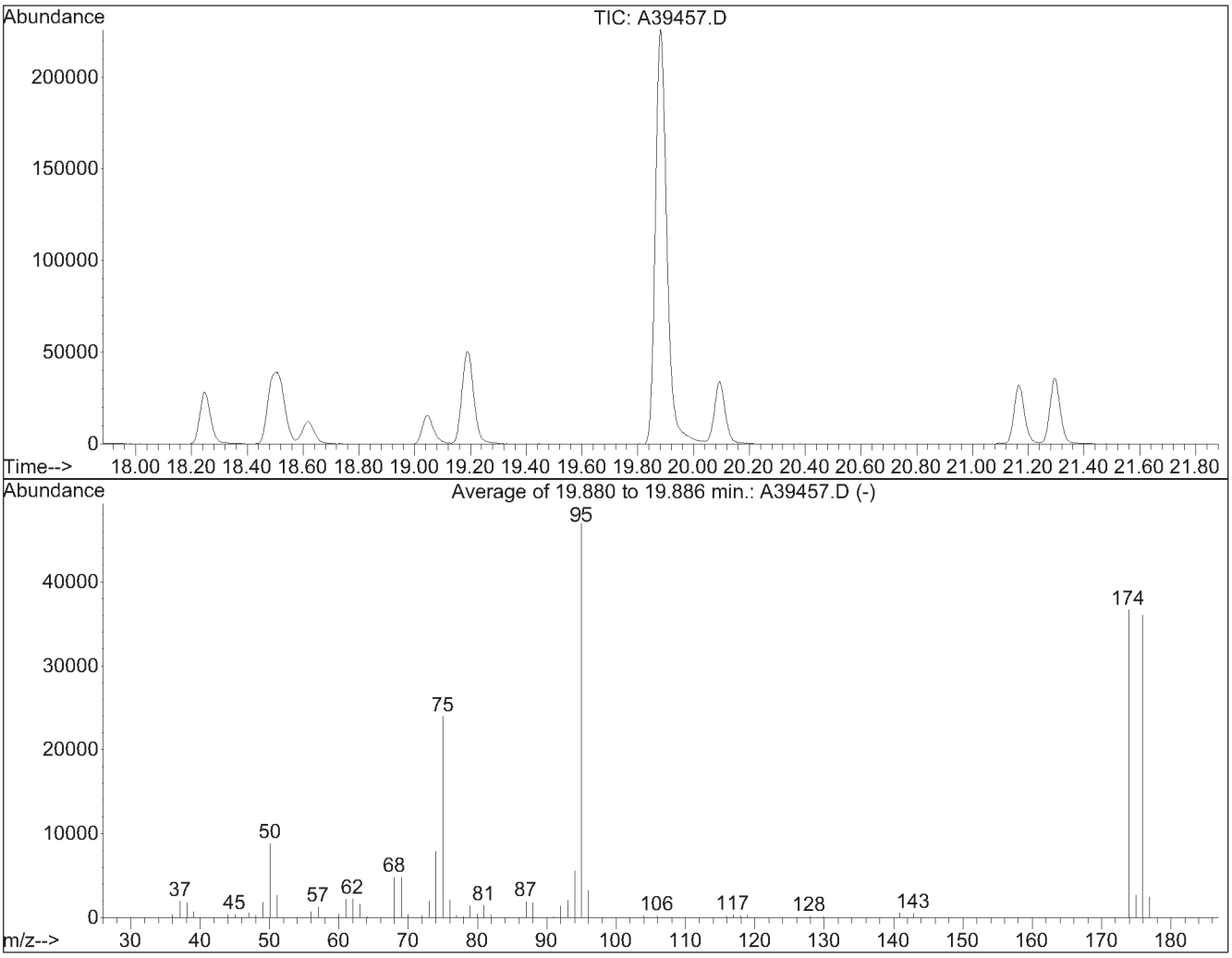
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.8	PASS
75	30 - 60% of 95	50.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.89	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	78	PASS
175	5 - 9% of 174	7.37	PASS
176	95 - 101% of 174	98.3	PASS
177	5 - 9% of 176	6.83	PASS

This check applies to the following samples, blanks, and standards:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
S101529-CAL2	Cal Standard	A39457.D	02/24/11	15:58
S101529-CAL3	Cal Standard	A39458.D	02/24/11	16:39
S101529-CAL4	Cal Standard	A39459.D	02/24/11	17:21
S101529-CAL5	Cal Standard	A39460.D	02/24/11	18:07
S101529-CAL6	Cal Standard	A39462.D	02/24/11	19:30
S101529-CAL7	Cal Standard	A39463.D	02/24/11	20:12
S101529-CAL1	Cal Standard	A39470.D	02/25/11	10:40
S101529-CAL8	Cal Standard	A39471.D	02/25/11	11:49
S101529-ICV1	Initial Cal Check	A39474.D	02/25/11	14:13

BFB

Data File : C:\HPCHEM\1\DATA\022411\A39457.D Vial: 2
Acq On : 24 Feb 2011 3:58 pm Operator: KG
Sample : 2ppbv to-15cal Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :



Spectrum Information: Average of 19.880 to 19.886 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	8848	PASS
75	95	30	60	50.9	23952	PASS
95	95	100	100	100.0	47013	PASS
96	95	5	9	6.9	3240	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.0	36664	PASS
175	174	5	9	7.4	2702	PASS
176	174	95	101	98.3	36056	PASS
177	176	5	9	6.8	2464	PASS

A39457.D T1022411.M Wed Mar 09 12:06:38 2011

FORM V -
MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Lab File ID:	A39598.D	Injection Date:	03/08/11
Instrument ID:	Air1	Injection Time:	07:54
Sequence:	S101712	Lab Sample ID:	S101712-TUN1

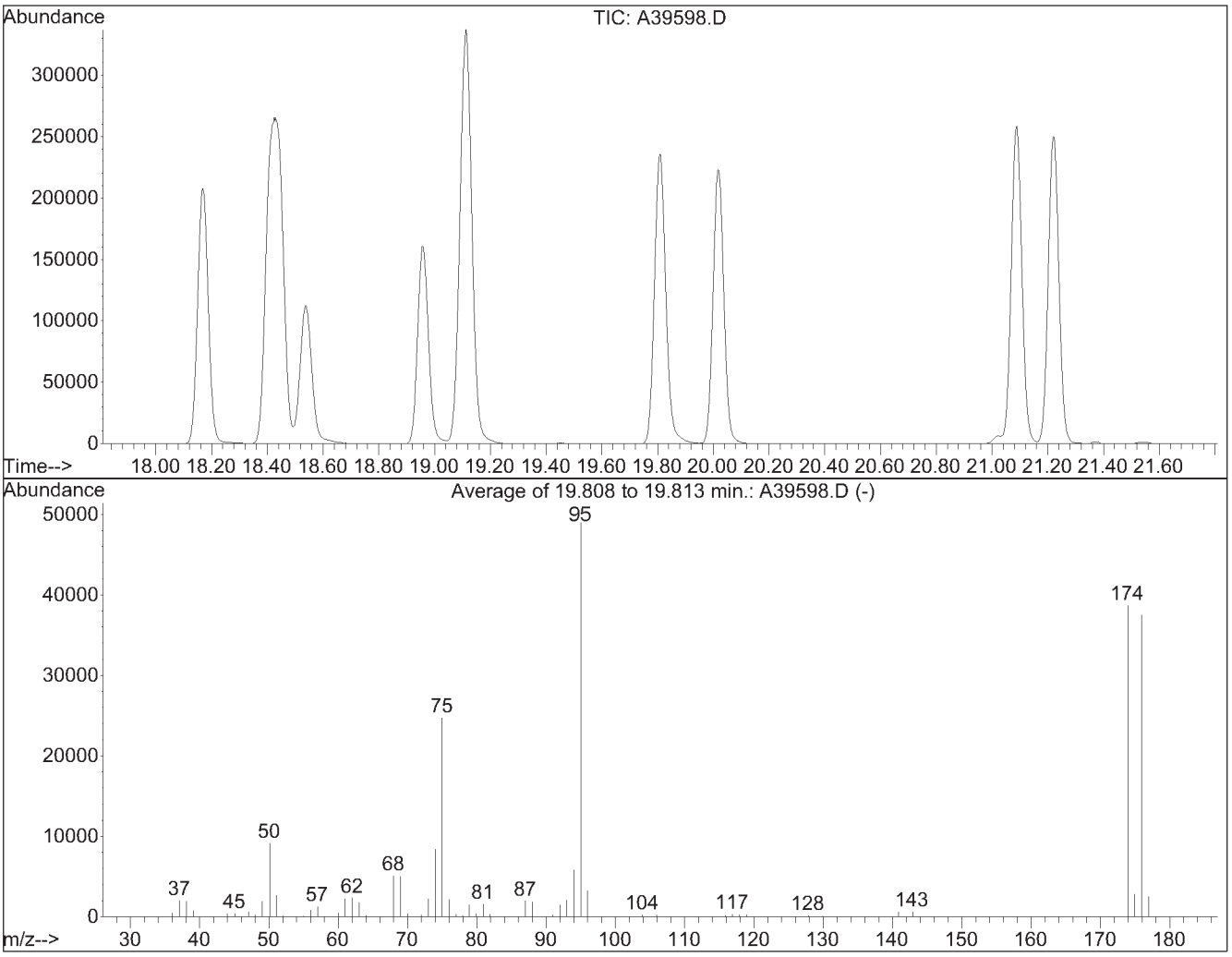
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.7	PASS
75	30 - 60% of 95	50.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.66	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	79	PASS
175	5 - 9% of 174	7.32	PASS
176	95 - 101% of 174	96.8	PASS
177	5 - 9% of 176	6.65	PASS

This check applies to the following samples, blanks, and standards:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
S101712-CCV1	Calibration Check	A39598.D	03/08/11	7:54
1104127-BS1	LCS	A39599.D	03/08/11	8:46
1104127-BLK1	Blank	A39600.D	03/08/11	11:10
SB25245-03	B1-SS2-030211	A39610.D	03/08/11	18:51
SB25245-05	B1-SS1-030211	A39611.D	03/08/11	19:33
SB25245-07	B1-IA2-030211	A39612.D	03/08/11	20:15
SB25245-10	B1-Dup-030211	A39613.D	03/08/11	20:57
SB25245-11	SG-2-030311	A39614.D	03/08/11	21:40
SB25245-12	B2-IA1-030211	A39615.D	03/08/11	22:22

BFB

Data File : C:\HPCHEM\1\DATA\030811\A39598.D Vial: 2
Acq On : 8 Mar 2011 7:54 am Operator: KG
Sample : 10ppbv to-15ccc Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :



Spectrum Information: Average of 19.808 to 19.813 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	9163	PASS
75	95	30	60	50.5	24752	PASS
95	95	100	100	100.0	49005	PASS
96	95	5	9	6.7	3263	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.0	38709	PASS
175	174	5	9	7.3	2833	PASS
176	174	95	101	96.8	37472	PASS
177	176	5	9	6.6	2491	PASS

A39598.D T1022411.M Mon Mar 21 09:35:11 2011

FORM V -
MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Lab File ID:	C07467.D	Injection Date:	03/09/11
Instrument ID:	Air4	Injection Time:	11:18
Sequence:	S101717	Lab Sample ID:	S101717-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.9	PASS
75	30 - 60% of 95	41.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.21	PASS
173	Less than 2% of 174	1.17	PASS
174	50 - 100% of 95	97.2	PASS
175	5 - 9% of 174	6.32	PASS
176	95 - 101% of 174	95.1	PASS
177	5 - 9% of 176	5.66	PASS

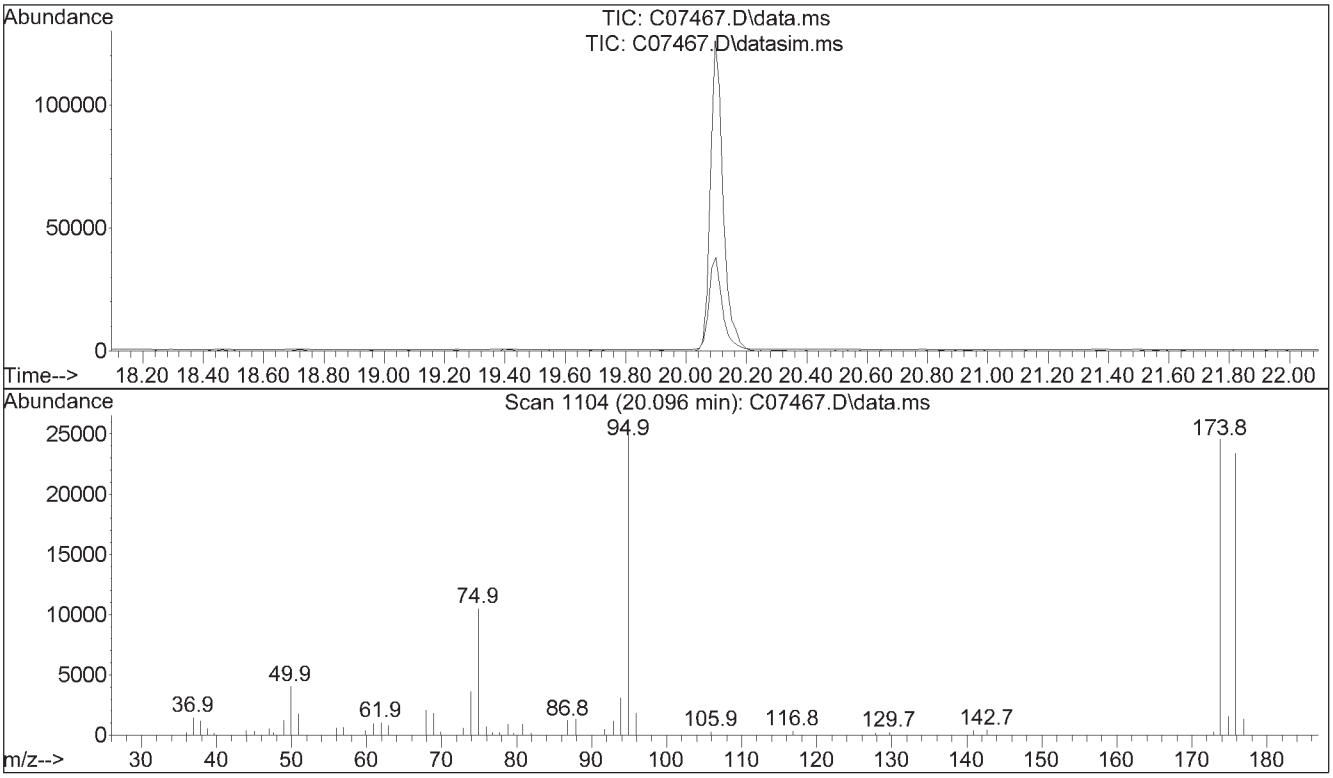
This check applies to the following samples, blanks, and standards:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
S101717-CAL1	Cal Standard	C07467.D	03/09/11	11:18
S101717-CAL2	Cal Standard	C07469.D	03/09/11	12:38
S101717-CAL3	Cal Standard	C07470.D	03/09/11	13:19
S101717-CAL4	Cal Standard	C07471.D	03/09/11	14:00
S101717-CAL5	Cal Standard	C07472.D	03/09/11	14:42
S101717-CAL6	Cal Standard	C07473.D	03/09/11	15:25
S101717-CAL7	Cal Standard	C07474.D	03/09/11	16:13
S101717-CAL8	Cal Standard	C07475.D	03/09/11	17:06
S101717-ICV1	Initial Cal Check	C07479.D	03/09/11	19:54

Data Path : G:\Mar2011\Air4\030911\
Data File : C07467.D
Acq On : 9 Mar 2011 11:18 am
Operator : KRL
Sample : 0.04ppbv to-15cal Inst : Air 4
Misc : 1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Method : C:\msdchem\1\METHODS\T4030911L.M
Title :
Last Update : Thu Mar 10 09:45:14 2011



Spectrum Information: Scan 1104

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.9	4022	PASS
75	95	30	60	41.5	10490	PASS
95	95	100	100	100.0	25304	PASS
96	95	5	9	7.2	1824	PASS
173	174	0.00	2	1.2	288	PASS
174	95	50	100	97.2	24592	PASS
175	174	5	9	6.3	1555	PASS
176	174	95	101	95.1	23384	PASS
177	176	5	9	5.7	1323	PASS

FORM V -
MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Lab File ID:	C07480.D	Injection Date:	03/10/11
Instrument ID:	Air4	Injection Time:	08:06
Sequence:	S101738	Lab Sample ID:	S101738-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.6	PASS
75	30 - 60% of 95	38	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.8	PASS
173	Less than 2% of 174	0.415	PASS
174	50 - 100% of 95	95.9	PASS
175	5 - 9% of 174	7.23	PASS
176	95 - 101% of 174	99.6	PASS
177	5 - 9% of 176	6.98	PASS

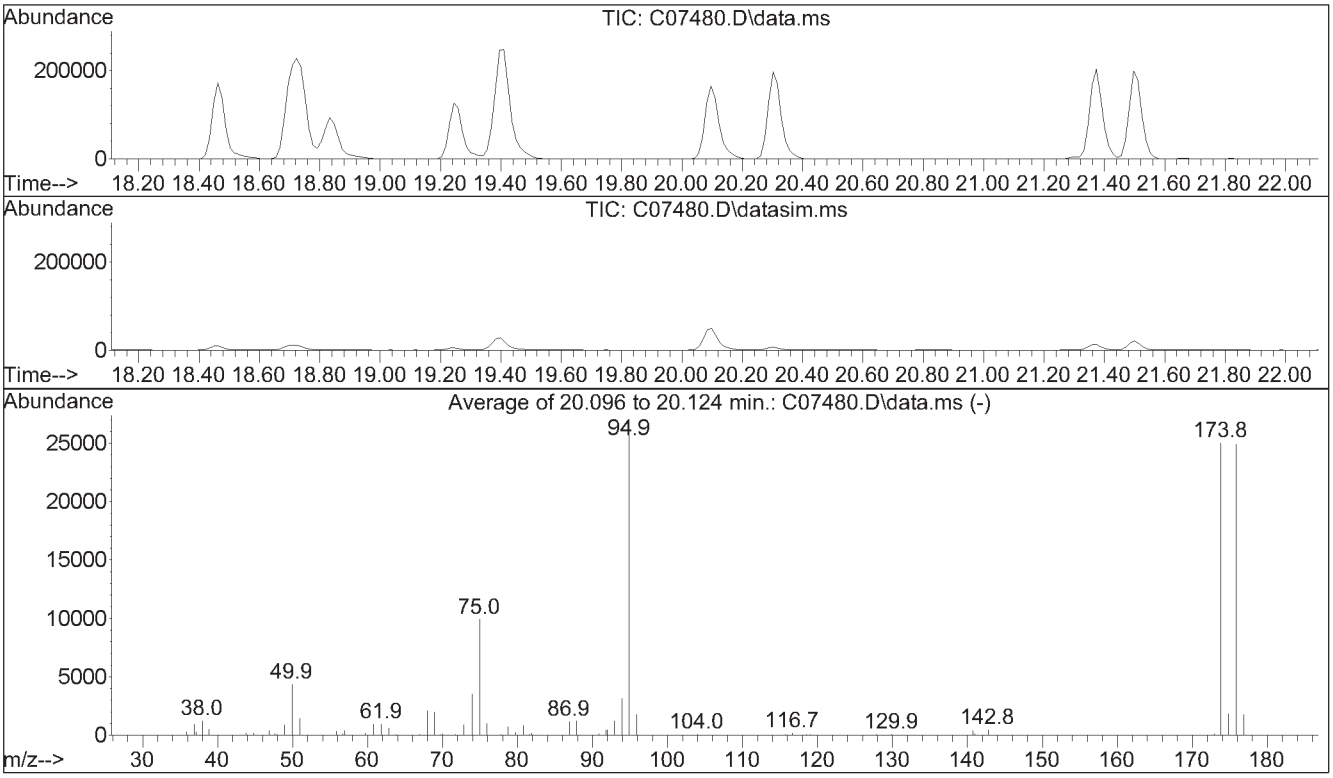
This check applies to the following samples, blanks, and standards:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
S101738-CCV1	Calibration Check	C07480.D	03/10/11	8:06
1104208-BS1	LCS	C07481.D	03/10/11	9:06
1104208-BLK1	Blank	C07482.D	03/10/11	11:40
SB25245-01	B3-SS1-030211	C07484.D	03/10/11	14:16
SB25245-02	AA1-030211	C07485.D	03/10/11	15:10
SB25245-04	B3-IA1-030211	C07486.D	03/10/11	16:04
SB25245-06	B1-IA1-030211	C07487.D	03/10/11	16:58
SB25245-07	B1-IA2-030211	C07488.D	03/10/11	17:52
SB25245-08	B2-SS1-030211	C07489.D	03/10/11	18:45
SB25245-09	SG-1-030311	C07490.D	03/10/11	19:39
SB25245-10	B1-Dup-030211	C07491.D	03/10/11	20:33
SB25245-12	B2-IA1-030211	C07492.D	03/10/11	21:27

Data Path : G:\Mar2011\Air4\031011\
Data File : C07480.D
Acq On : 10 Mar 2011 8:06 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Method : C:\msdchem\1\METHODS\T4030911L.M
Title :
Last Update : Thu Mar 10 09:45:14 2011



AutoFind: Scans 1104, 1105, 1106; Background Corrected with Scan 1097

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	4345	PASS
75	95	30	60	38.0	9911	PASS
95	95	100	100	100.0	26115	PASS
96	95	5	9	6.8	1776	PASS
173	174	0.00	2	0.4	104	PASS
174	95	50	100	95.9	25033	PASS
175	174	5	9	7.2	1809	PASS
176	174	95	101	99.6	24924	PASS
177	176	5	9	7.0	1739	PASS

FORM V -
MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
EPA TO-15

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA	SDG:	25245
Client:	Mitkem Laboratories	Project:	See Chain of Custody
Lab File ID:	B36749.D	Injection Date:	03/11/11
Instrument ID:	Air2	Injection Time:	07:23
Sequence:	S101779	Lab Sample ID:	S101779-TUN1

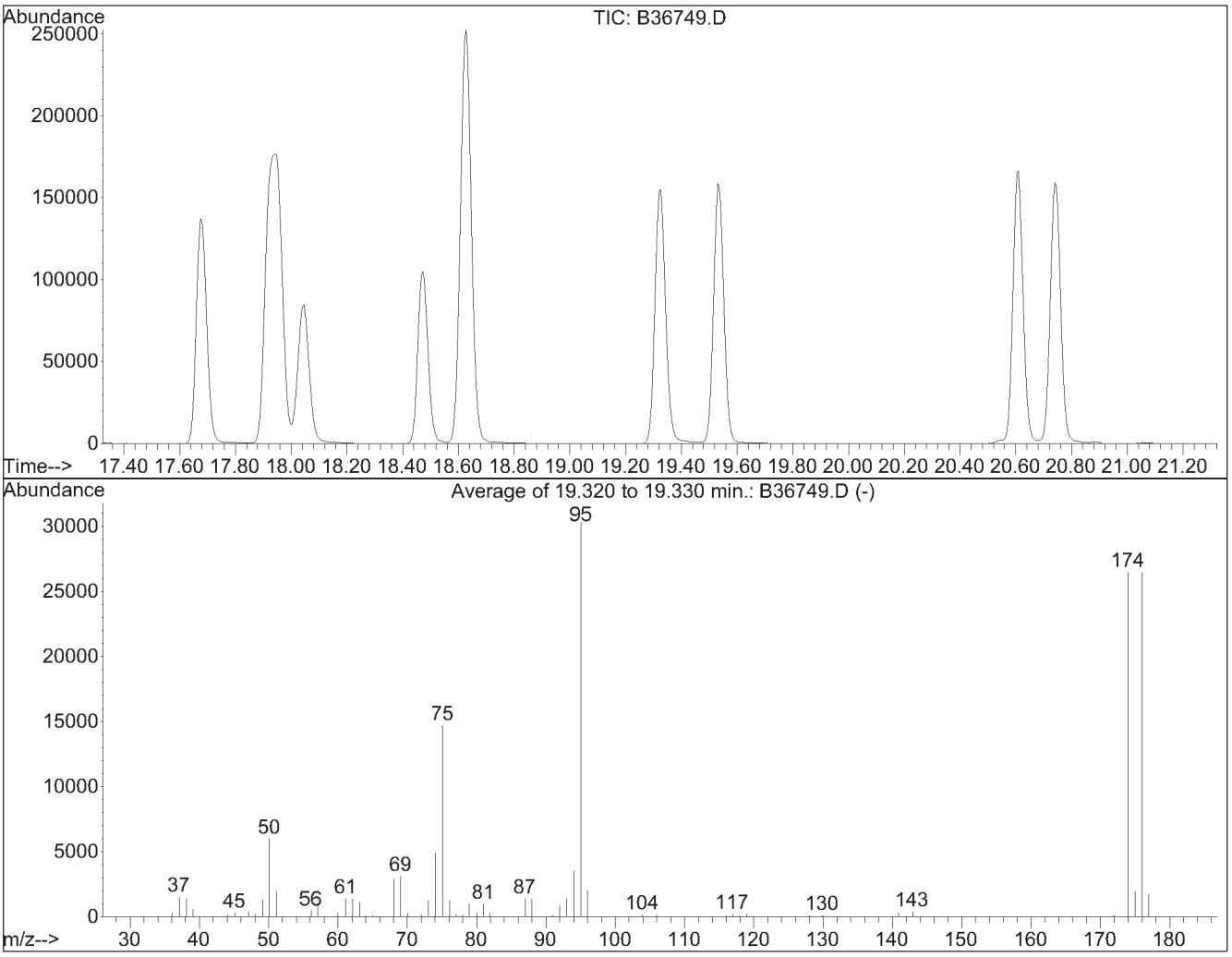
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.8	PASS
75	30 - 60% of 95	48.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.62	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	87.4	PASS
175	5 - 9% of 174	7.43	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	6.52	PASS

This check applies to the following samples, blanks, and standards:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
S101779-CCV1	Calibration Check	B36749.D	03/11/11	7:23
1104256-BS1	LCS	B36750.D	03/11/11	8:09
1104256-BLK1	Blank	B36752.D	03/11/11	11:13
SB25245-04	B3-IA1-030211	B36764.D	03/11/11	21:52
SB25245-06	B1-IA1-030211	B36765.D	03/11/11	22:36
SB25245-09	SG-1-030311	B36766.D	03/11/11	23:19

BFB

Data File : G:\MAR2011\AIR2\031111\B36749.D Vial: 9
Acq On : 11 Mar 2011 7:23 am Operator: KG
Sample : 10ppbv to-15ccc Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :



AutoFind: Scans 2988, 2989, 2990; Background Corrected with Scan 2976

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	5999	PASS
75	95	30	60	48.5	14690	PASS
95	95	100	100	100.0	30315	PASS
96	95	5	9	6.6	2008	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	87.4	26483	PASS
175	174	5	9	7.4	1968	PASS
176	174	95	101	99.9	26469	PASS
177	176	5	9	6.5	1725	PASS

B36749.D T2021511H.M Mon Mar 21 09:38:20 2011

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104127-BLK1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104127-BLK1	File ID:	A39600.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/08/11 11:10	Instrument:	Air1		
Batch:	1104127	Sequence:	S101712	Calibration:	1103003

CAS NO.	COMPOUND	CONC. (ppbv)	Q
115-07-1	Propene	0.0930	U
75-71-8	Dichlorodifluoromethane (Freon12)	0.172	U
74-87-3	Chloromethane	0.455	U
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.390	U
75-01-4	Vinyl chloride	0.278	U
106-99-0	1,3-Butadiene	0.149	U
74-83-9	Bromomethane	0.249	U
75-00-3	Chloroethane	0.219	U
67-64-1	Acetone	0.271	U
75-69-4	Trichlorofluoromethane (Freon 11)	0.379	U
64-17-5	Ethanol	0.440	U
75-35-4	1,1-Dichloroethene	0.163	U
107-13-1	Acrylonitrile	0.0700	U
75-09-2	Methylene chloride	0.129	U
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.202	U
75-15-0	Carbon disulfide	0.185	U
156-60-5	trans-1,2-Dichloroethene	0.0660	U
75-34-3	1,1-Dichloroethane	0.150	U
1634-04-4	Methyl tert-butyl ether	0.0780	U
67-63-0	Isopropyl alcohol	0.212	U
78-93-3	2-Butanone (MEK)	0.176	U
156-59-2	cis-1,2-Dichloroethene	0.101	U
110-54-3	Hexane	0.108	U
141-78-6	Ethyl acetate	0.334	U
67-66-3	Chloroform	0.175	U
109-99-9	Tetrahydrofuran	0.167	U
107-06-2	1,2-Dichloroethane	0.162	U
71-55-6	1,1,1-Trichloroethane	0.159	U
71-43-2	Benzene	0.100	U
56-23-5	Carbon tetrachloride	0.176	U
110-82-7	Cyclohexane	0.0640	U
78-87-5	1,2-Dichloropropane	0.0730	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104127-BLK1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104127-BLK1	File ID:	A39600.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/08/11 11:10	Instrument:	Air1		
Batch:	1104127	Sequence:	S101712	Calibration:	1103003

CAS NO.	COMPOUND	CONC. (ppbv)	Q
75-27-4	Bromodichloromethane	0.127	U
79-01-6	Trichloroethene	0.0800	U
123-91-1	1,4-Dioxane	0.0870	U
142-82-5	n-Heptane	0.284	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.132	U
10061-01-5	cis-1,3-Dichloropropene	0.104	U
10061-02-6	trans-1,3-Dichloropropene	0.0670	U
79-00-5	1,1,2-Trichloroethane	0.125	U
108-88-3	Toluene	0.0590	U
591-78-6	2-Hexanone (MBK)	0.106	U
124-48-1	Dibromochloromethane	0.130	U
106-93-4	1,2-Dibromoethane (EDB)	0.0890	U
127-18-4	Tetrachloroethene	0.100	U
108-90-7	Chlorobenzene	0.132	U
100-41-4	Ethylbenzene	0.0620	U
630-20-6	1,1,1,2-Tetrachloroethane	0.164	U
179601-23-1	m,p-Xylene	0.232	U
75-25-2	Bromoform	0.153	U
100-42-5	Styrene	0.0500	U
95-47-6	o-Xylene	0.110	U
79-34-5	1,1,2,2-Tetrachloroethane	0.170	U
108-67-8	1,3,5-Trimethylbenzene	0.211	U
622-96-8	4-Ethyltoluene	0.0940	U
95-63-6	1,2,4-Trimethylbenzene	0.0890	U
98-82-8	Isopropylbenzene	0.0930	U
541-73-1	1,3-Dichlorobenzene	0.124	U
100-44-7	Benzyl chloride	0.164	U
106-46-7	1,4-Dichlorobenzene	0.170	U
91-20-3	Naphthalene	0.183	U
95-50-1	1,2-Dichlorobenzene	0.150	U
120-82-1	1,2,4-Trichlorobenzene	0.335	U
87-68-3	Hexachlorobutadiene	0.140	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104127-BLK1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104127-BLK1	File ID:	A39600.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/08/11 11:10	Instrument:	Air1		
Batch:	1104127	Sequence:	S101712	Calibration:	1103003

CAS NO.	COMPOUND	CONC. (ppbv)	Q
135-98-8	sec-Butylbenzene	0.125	U
99-87-6	4-Isopropyltoluene	0.0880	U
104-51-8	n-Butylbenzene	0.0930	U

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\030811\A39600.D Vial: 1
Acq On : 8 Mar 2011 11:10 am Operator: KG
Sample : mb/can check 4630 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 8 12:43 2011 Quant Results File: T1022411.RES

Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

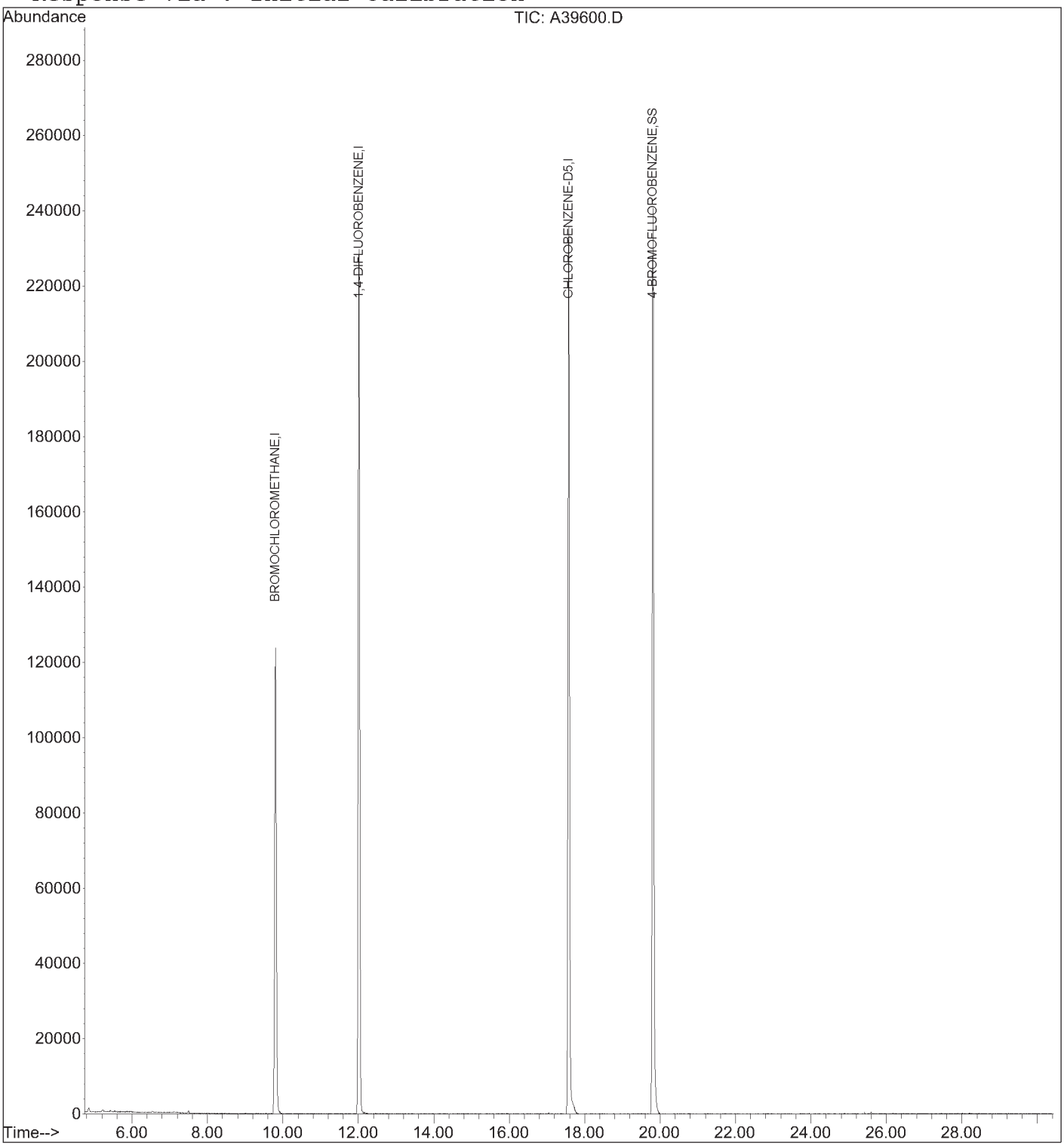
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.80	128	547250	10.00	PPBv	-0.01
33) 1,4-DIFLUOROBENZENE	12.02	114	2713473	10.00	PPBv	-0.02
48) CHLOROBENZENE-D5	17.58	82	1266143	10.00	PPBv	-0.03
System Monitoring Compounds						
57) 4-BROMOFLUOROBENZENE	19.81	95	1444087	10.22	PPBv	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.20%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030811\A39600.D Vial: 1
Acq On : 8 Mar 2011 11:10 am Operator: KG
Sample : mb/can check 4630 Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 8 12:43 2011 Quant Results File: T1022411.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104208-BLK1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104208-BLK1	File ID:	C07482.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/10/11 11:40	Instrument:	Air4		
Batch:	1104208	Sequence:	S101738	Calibration:	1103010

CAS NO.	COMPOUND	CONC. (ppbv)	Q
71-55-6	1,1,1-Trichloroethane	0.052000	U
115-07-1	Propene	0.084000	U
75-71-8	Dichlorodifluoromethane (Freon12)	0.060000	U
74-87-3	Chloromethane	0.093000	U
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.057000	U
75-01-4	Vinyl chloride	0.064000	U
106-99-0	1,3-Butadiene	0.055000	U
74-83-9	Bromomethane	0.052000	U
75-00-3	Chloroethane	0.076000	U
67-64-1	Acetone	0.073000	U
75-69-4	Trichlorofluoromethane (Freon 11)	0.073000	U
64-17-5	Ethanol	0.072000	U
75-35-4	1,1-Dichloroethene	0.073000	U
107-13-1	Acrylonitrile	0.064000	U
75-09-2	Methylene chloride	0.062000	U
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.070000	U
75-15-0	Carbon disulfide	0.057000	U
156-60-5	trans-1,2-Dichloroethene	0.042000	U
75-34-3	1,1-Dichloroethane	0.049000	U
1634-04-4	Methyl tert-butyl ether	0.049000	U
67-63-0	Isopropyl alcohol	0.088000	U
78-93-3	2-Butanone (MEK)	0.095000	U
156-59-2	cis-1,2-Dichloroethene	0.049000	U
110-54-3	Hexane	0.046000	U
141-78-6	Ethyl acetate	0.082000	U
67-66-3	Chloroform	0.045000	U
109-99-9	Tetrahydrofuran	0.053000	U
107-06-2	1,2-Dichloroethane	0.046000	U
71-43-2	Benzene	0.053000	U
56-23-5	Carbon tetrachloride	0.043000	U
110-82-7	Cyclohexane	0.081000	U
78-87-5	1,2-Dichloropropane	0.049000	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104208-BLK1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104208-BLK1	File ID:	C07482.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/10/11 11:40	Instrument:	Air4		
Batch:	1104208	Sequence:	S101738	Calibration:	1103010

CAS NO.	COMPOUND	CONC. (ppbv)	Q
75-27-4	Bromodichloromethane	0.053000	U
79-01-6	Trichloroethene	0.052000	U
123-91-1	1,4-Dioxane	0.067000	U
142-82-5	n-Heptane	0.061000	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.053000	U
10061-01-5	cis-1,3-Dichloropropene	0.047000	U
10061-02-6	trans-1,3-Dichloropropene	0.047000	U
79-00-5	1,1,2-Trichloroethane	0.066000	U
108-88-3	Toluene	0.043000	U
591-78-6	2-Hexanone (MBK)	0.042000	U
124-48-1	Dibromochloromethane	0.059000	U
106-93-4	1,2-Dibromoethane (EDB)	0.043000	U
127-18-4	Tetrachloroethene	0.061000	U
108-90-7	Chlorobenzene	0.061000	U
100-41-4	Ethylbenzene	0.067000	U
630-20-6	1,1,1,2-Tetrachloroethane	0.047000	U
179601-23-1	m,p-Xylene	0.10900	U
75-25-2	Bromoform	0.046000	U
100-42-5	Styrene	0.053000	U
95-47-6	o-Xylene	0.061000	U
79-34-5	1,1,2,2-Tetrachloroethane	0.066000	U
108-67-8	1,3,5-Trimethylbenzene	0.046000	U
622-96-8	4-Ethyltoluene	0.055000	U
95-63-6	1,2,4-Trimethylbenzene	0.039000	U
98-82-8	Isopropylbenzene	0.056000	U
541-73-1	1,3-Dichlorobenzene	0.055000	U
100-44-7	Benzyl chloride	0.062000	U
106-46-7	1,4-Dichlorobenzene	0.061000	U
91-20-3	Naphthalene	0.18300	U
95-50-1	1,2-Dichlorobenzene	0.053000	U
120-82-1	1,2,4-Trichlorobenzene	0.053000	U
87-68-3	Hexachlorobutadiene	0.040000	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104208-BLK1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104208-BLK1	File ID:	C07482.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/10/11 11:40	Instrument:	Air4		
Batch:	1104208	Sequence:	S101738	Calibration:	1103010

CAS NO.	COMPOUND	CONC. (ppbv)	Q
135-98-8	sec-Butylbenzene	0.052000	U
99-87-6	4-Isopropyltoluene	0.062000	U
104-51-8	n-Butylbenzene	0.056000	U

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07482.D
Acq On : 10 Mar 2011 11:40 am
Operator : KRL
Sample : mb/can check 0260 Inst : Air 4
Misc : 1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 10 13:05:01 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

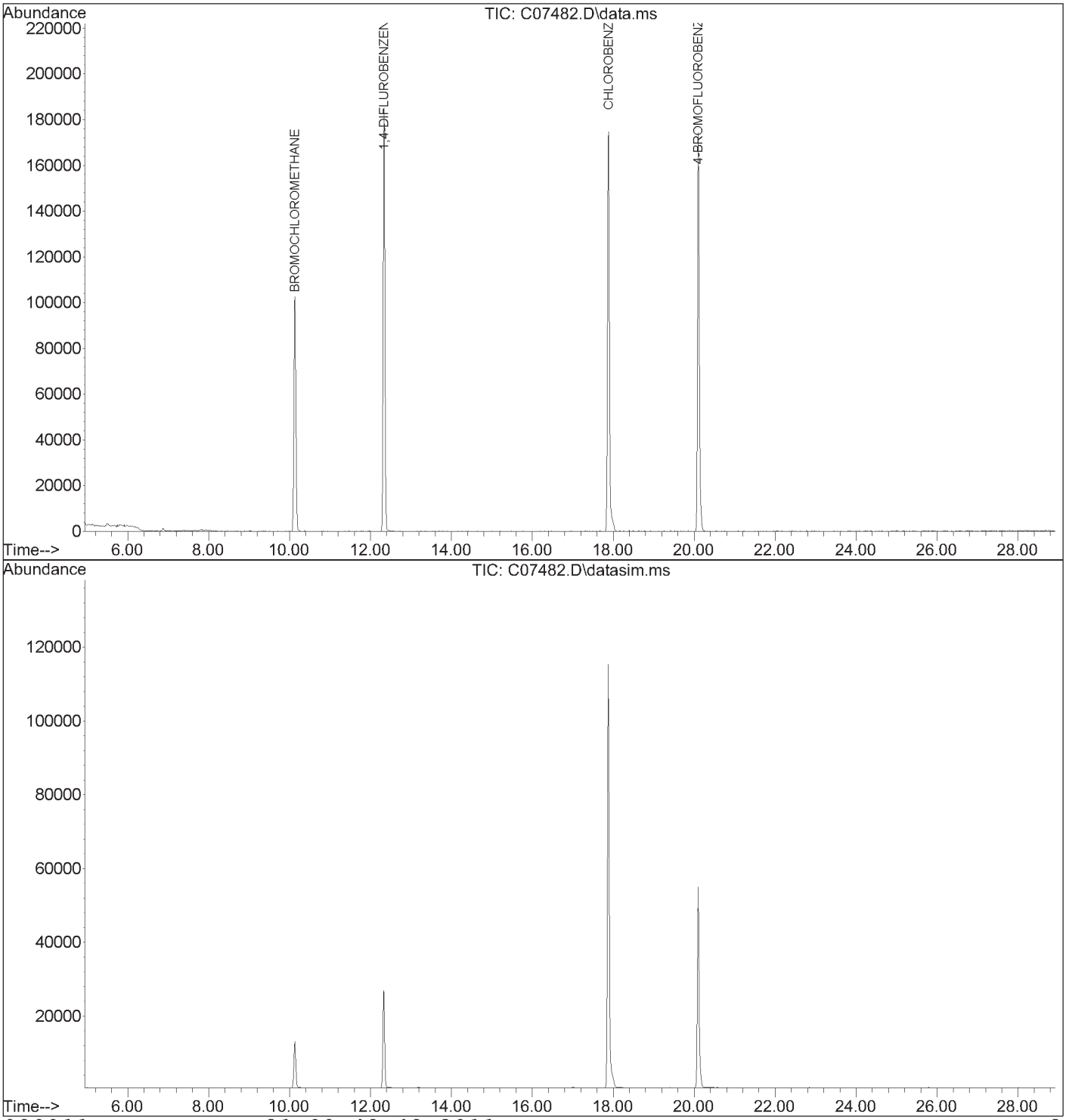
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.136	128	571176	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.339	114	2827504	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.885	54	303021	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.105	95	1124483	10.66	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 106.60%#			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07482.D
Acq On : 10 Mar 2011 11:40 am
Operator : KRL
Sample : mb/can check 0260 Inst : Air 4
Misc : 1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 10 13:05:01 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104256-BLK1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104256-BLK1	File ID:	B36752.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/11/11 11:13	Instrument:	Air2		
Batch:	1104256	Sequence:	S101779	Calibration:	1102028

CAS NO.	COMPOUND	CONC. (ppbv)	Q
115-07-1	Propene	0.0930	U
75-71-8	Dichlorodifluoromethane (Freon12)	0.172	U
74-87-3	Chloromethane	0.286	U
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.246	U
75-01-4	Vinyl chloride	0.233	U
106-99-0	1,3-Butadiene	0.149	U
74-83-9	Bromomethane	0.212	U
75-00-3	Chloroethane	0.219	U
67-64-1	Acetone	0.271	U
75-69-4	Trichlorofluoromethane (Freon 11)	0.287	U
64-17-5	Ethanol	0.335	U
75-35-4	1,1-Dichloroethene	0.163	U
107-13-1	Acrylonitrile	0.0700	U
75-09-2	Methylene chloride	0.129	U
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.202	U
75-15-0	Carbon disulfide	0.185	U
156-60-5	trans-1,2-Dichloroethene	0.0660	U
75-34-3	1,1-Dichloroethane	0.150	U
1634-04-4	Methyl tert-butyl ether	0.0780	U
67-63-0	Isopropyl alcohol	0.207	U
78-93-3	2-Butanone (MEK)	0.176	U
156-59-2	cis-1,2-Dichloroethene	0.101	U
110-54-3	Hexane	0.108	U
141-78-6	Ethyl acetate	0.194	U
67-66-3	Chloroform	0.151	U
109-99-9	Tetrahydrofuran	0.167	U
107-06-2	1,2-Dichloroethane	0.142	U
71-55-6	1,1,1-Trichloroethane	0.137	U
71-43-2	Benzene	0.100	U
56-23-5	Carbon tetrachloride	0.145	U
110-82-7	Cyclohexane	0.0640	U
78-87-5	1,2-Dichloropropane	0.0730	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104256-BLK1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104256-BLK1	File ID:	B36752.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/11/11 11:13	Instrument:	Air2		
Batch:	1104256	Sequence:	S101779	Calibration:	1102028

CAS NO.	COMPOUND	CONC. (ppbv)	Q
75-27-4	Bromodichloromethane	0.127	U
79-01-6	Trichloroethene	0.0800	U
123-91-1	1,4-Dioxane	0.0870	U
142-82-5	n-Heptane	0.138	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.132	U
10061-01-5	cis-1,3-Dichloropropene	0.104	U
10061-02-6	trans-1,3-Dichloropropene	0.0670	U
79-00-5	1,1,2-Trichloroethane	0.125	U
108-88-3	Toluene	0.0590	U
591-78-6	2-Hexanone (MBK)	0.106	U
124-48-1	Dibromochloromethane	0.130	U
106-93-4	1,2-Dibromoethane (EDB)	0.0890	U
127-18-4	Tetrachloroethene	0.100	U
108-90-7	Chlorobenzene	0.132	U
100-41-4	Ethylbenzene	0.0620	U
630-20-6	1,1,1,2-Tetrachloroethane	0.164	U
179601-23-1	m,p-Xylene	0.232	U
75-25-2	Bromoform	0.153	U
100-42-5	Styrene	0.0500	U
95-47-6	o-Xylene	0.110	U
79-34-5	1,1,2,2-Tetrachloroethane	0.170	U
108-67-8	1,3,5-Trimethylbenzene	0.211	U
622-96-8	4-Ethyltoluene	0.0940	U
95-63-6	1,2,4-Trimethylbenzene	0.0890	U
98-82-8	Isopropylbenzene	0.0930	U
541-73-1	1,3-Dichlorobenzene	0.124	U
100-44-7	Benzyl chloride	0.164	U
106-46-7	1,4-Dichlorobenzene	0.170	U
91-20-3	Naphthalene	0.183	U
95-50-1	1,2-Dichlorobenzene	0.150	U
120-82-1	1,2,4-Trichlorobenzene	0.160	U
87-68-3	Hexachlorobutadiene	0.140	U

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104256-BLK1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104256-BLK1	File ID:	B36752.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/11/11 11:13	Instrument:	Air2		
Batch:	1104256	Sequence:	S101779	Calibration:	1102028

CAS NO.	COMPOUND	CONC. (ppbv)	Q
135-98-8	sec-Butylbenzene	0.125	U
99-87-6	4-Isopropyltoluene	0.0880	U
104-51-8	n-Butylbenzene	0.0930	U

Quantitation Report (QT Reviewed)

Data File : G:\MAR2011\AIR2\031111\B36752.D Vial: 1
Acq On : 11 Mar 2011 11:13 am Operator: KG
Sample : mb/can check 7637 Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 11 13:02 2011 Quant Results File: T2021511H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

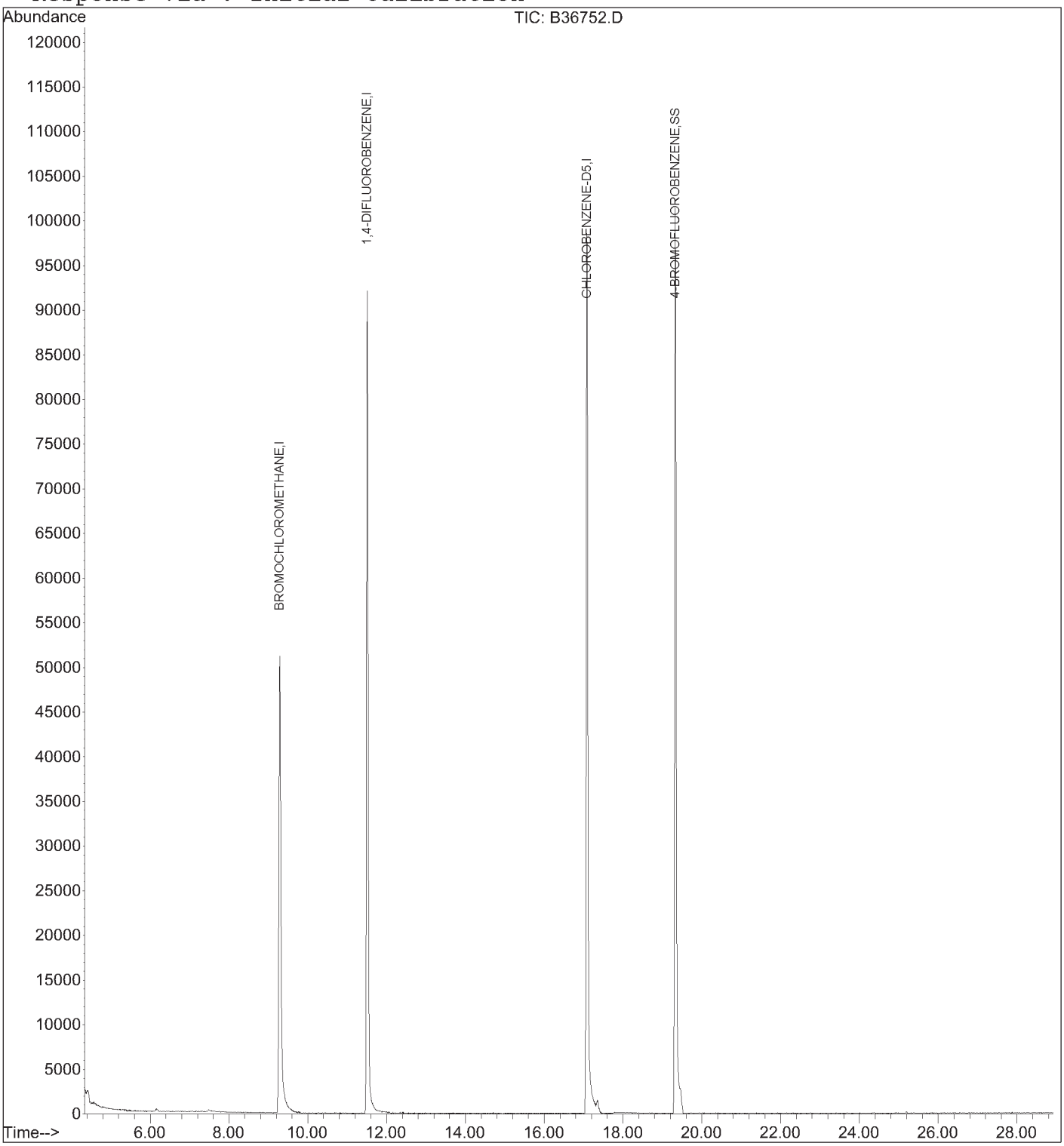
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	9.29	128	245983	10.00	PPBv	0.00
33) 1,4-DIFLUOROBENZENE	11.51	114	1133350	10.00	PPBv	0.00
48) CHLOROBENZENE-D5	17.09	82	517996	10.00	PPBv	0.00
System Monitoring Compounds						
57) 4-BROMOFLUOROBENZENE	19.33	95	596543	10.63	PPBv	0.00
Spiked Amount 10.000	Range 9 - 15		Recovery = 106.30%#			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\MAR2011\AIR2\031111\B36752.D Vial: 1
Acq On : 11 Mar 2011 11:13 am Operator: KG
Sample : mb/can check 7637 Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 11 13:02 2011 Quant Results File: T2021511H.RE

Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104127-BS1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104127-BS1	File ID:	A39599.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/08/11 08:46	Instrument:	Air1		
Batch:	1104127	Sequence:	S101712	Calibration:	1103003

CAS NO.	COMPOUND	CONC. (ppbv)	Q
115-07-1	Propene	8.88	
75-71-8	Dichlorodifluoromethane (Freon12)	9.97	
74-87-3	Chloromethane	7.57	
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	9.94	
75-01-4	Vinyl chloride	9.73	
106-99-0	1,3-Butadiene	9.54	
74-83-9	Bromomethane	9.46	
75-00-3	Chloroethane	11.9	
67-64-1	Acetone	12.0	
75-69-4	Trichlorofluoromethane (Freon 11)	11.5	
64-17-5	Ethanol	12.0	
75-35-4	1,1-Dichloroethene	9.35	
107-13-1	Acrylonitrile	11.8	
75-09-2	Methylene chloride	8.55	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	12.3	
75-15-0	Carbon disulfide	11.8	
156-60-5	trans-1,2-Dichloroethene	9.88	
75-34-3	1,1-Dichloroethane	9.90	
1634-04-4	Methyl tert-butyl ether	10.1	
67-63-0	Isopropyl alcohol	12.4	
78-93-3	2-Butanone (MEK)	10.2	
156-59-2	cis-1,2-Dichloroethene	9.90	
110-54-3	Hexane	10.3	
141-78-6	Ethyl acetate	9.26	
67-66-3	Chloroform	10.0	
109-99-9	Tetrahydrofuran	9.55	
107-06-2	1,2-Dichloroethane	10.1	
71-55-6	1,1,1-Trichloroethane	10.1	
71-43-2	Benzene	9.91	
56-23-5	Carbon tetrachloride	10.4	
110-82-7	Cyclohexane	10.3	
78-87-5	1,2-Dichloropropane	9.84	

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104127-BS1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104127-BS1	File ID:	A39599.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/08/11 08:46	Instrument:	Air1		
Batch:	1104127	Sequence:	S101712	Calibration:	1103003

CAS NO.	COMPOUND	CONC. (ppbv)	Q
75-27-4	Bromodichloromethane	9.93	
79-01-6	Trichloroethene	10.2	
123-91-1	1,4-Dioxane	9.19	
142-82-5	n-Heptane	9.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	9.69	
10061-01-5	cis-1,3-Dichloropropene	10.0	
10061-02-6	trans-1,3-Dichloropropene	9.50	
79-00-5	1,1,2-Trichloroethane	9.88	
108-88-3	Toluene	10.1	
591-78-6	2-Hexanone (MBK)	9.70	
124-48-1	Dibromochloromethane	10.0	
106-93-4	1,2-Dibromoethane (EDB)	9.94	
127-18-4	Tetrachloroethene	10.2	
108-90-7	Chlorobenzene	10.7	
100-41-4	Ethylbenzene	10.9	
630-20-6	1,1,1,2-Tetrachloroethane	12.2	
179601-23-1	m,p-Xylene	22.1	
75-25-2	Bromoform	10.4	
100-42-5	Styrene	11.7	
95-47-6	o-Xylene	11.1	
79-34-5	1,1,2,2-Tetrachloroethane	11.0	
108-67-8	1,3,5-Trimethylbenzene	10.6	
622-96-8	4-Ethyltoluene	10.7	
95-63-6	1,2,4-Trimethylbenzene	10.8	
98-82-8	Isopropylbenzene	11.5	
541-73-1	1,3-Dichlorobenzene	10.3	
100-44-7	Benzyl chloride	14.3	
106-46-7	1,4-Dichlorobenzene	9.99	
91-20-3	Naphthalene	11.1	
95-50-1	1,2-Dichlorobenzene	10.4	
120-82-1	1,2,4-Trichlorobenzene	9.43	
87-68-3	Hexachlorobutadiene	9.60	

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104127-BS1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104127-BS1	File ID:	A39599.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/08/11 08:46	Instrument:	Air1		
Batch:	1104127	Sequence:	S101712	Calibration:	1103003

CAS NO.	COMPOUND	CONC. (ppbv)	Q
135-98-8	sec-Butylbenzene	11.4	
99-87-6	4-Isopropyltoluene	11.3	
104-51-8	n-Butylbenzene	11.3	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\030811\A39599.D Vial: 3
Acq On : 8 Mar 2011 8:46 am Operator: KG
Sample : 10ppbv to-15qc Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 8 10:22 2011 Quant Results File: T1022411.RES

Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.80	128	507231	10.00	PPBv		-0.01
33) 1,4-DIFLUOROBENZENE	12.02	114	2530350	10.00	PPBv		-0.02
48) CHLOROBENZENE-D5	17.58	82	1258987	10.00	PPBv		-0.03
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.81	95	1461056	10.40	PPBv		-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.00%				
Target Compounds							Qvalue
2) PROPENE	4.84	42	253887	8.88	PPBv		97
3) DICHLORODIFLUOROMETHANE	4.92	85	1339564	9.97	PPBv		100
4) CHLOROMETHANE	5.10	50	354246m	7.57	PPBv		
5) FREON 114	5.20	85	1196155	9.94	PPBv		89
6) VINYL CHLORIDE	5.33	62	391827	9.73	PPBv		97
7) 1,3-BUTADIENE	5.47	54	272185	9.54	PPBv		93
8) BROMOMETHANE	5.75	94	311582	9.46	PPBv		99
9) CHLOROETHANE	5.93	64	225062	11.94	PPBv		96
10) ACETONE	6.53	58	190044	12.00	PPBv		77
11) TRICHLOROFLUOROMETHANE	6.72	101	1198749	11.48	PPBv		100
12) ETHANOL	6.03	45	138737	12.02	PPBv		98
13) ACRYLONITRILE	7.01	53	216841	11.80	PPBv	#	100
14) 1,1-DICHLOROETHENE	7.38	96	312843	9.35	PPBv		98
15) METHYLENE CHLORIDE	7.49	84	281117	8.55	PPBv		87
16) FREON 113	7.77	101	1043785	12.29	PPBv		98
17) CARBON DISULFIDE	7.83	76	1392378	11.83	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	8.49	96	491092	9.88	PPBv		91
19) 1,1-DICHLOROETHANE	8.70	63	917733	9.90	PPBv		99
20) MTBE	8.76	73	1317217	10.09	PPBv		95
21) IPA	6.76	45	587273	12.41	PPBv	#	83
22) 2-BUTANONE(MEK)	9.12	72	259637	10.24	PPBv	#	1
23) CIS-1,2-DICHLOROETHENE	9.62	96	509316	9.90	PPBv		92
24) HEXANE	9.85	57	807484	10.31	PPBv		96
25) ETHYL ACETATE	9.84	61	175048	9.26	PPBv		90
26) CHLOROFORM	9.94	83	1067838	10.05	PPBv		99
27) TETRAHYDROFURAN	10.41	71	206838	9.55	PPBv		95
28) 1,2-DICHLOROETHANE	10.78	62	722918	10.11	PPBv		98
29) 1,1,1-TRICHLOROETHANE	11.08	97	1048104	10.14	PPBv		100
30) BENZENE	11.62	78	1545010	9.91	PPBv		100
31) CARBON TETRACHLORIDE	11.79	119	954556	10.39	PPBv		100
32) CYCLOHEXANE	11.94	56	868928m	10.33	PPBv		
34) 1,2-DICHLOROPROPANE	12.58	63	571520	9.84	PPBv	#	88
35) BROMODICHLOROMETHANE	12.82	83	1063211	9.93	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\030811\A39599.D Vial: 3
Acq On : 8 Mar 2011 8:46 am Operator: KG
Sample : 10ppbv to-15qc Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 8 10:22 2011 Quant Results File: T1022411.RES

Quant Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration
DataAcq Meth : AT153077

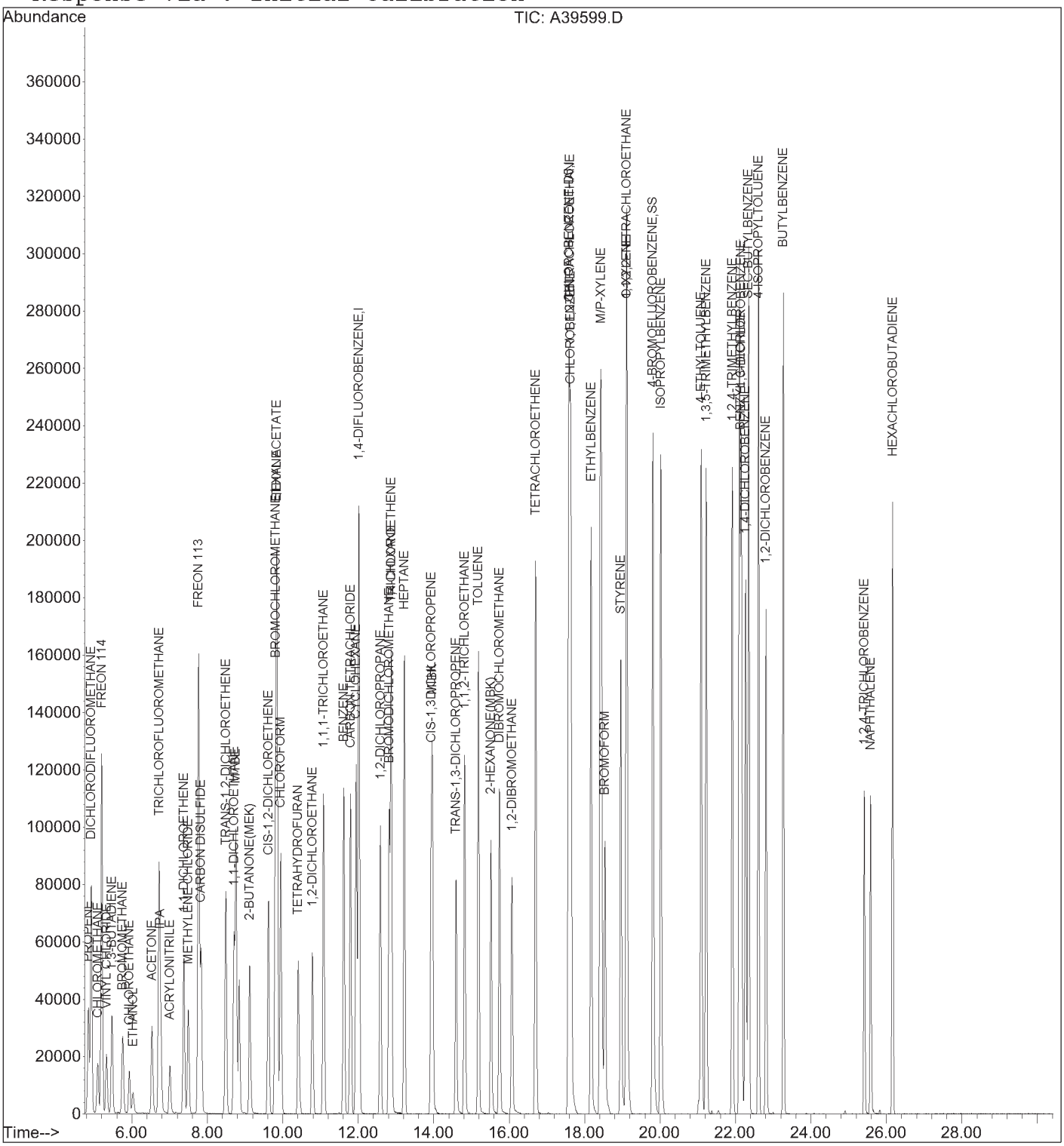
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	1,4-DIOXANE	12.87	88	267665	9.19	PPBv	#	93
37)	TRICHLOROETHENE	12.87	95	685245	10.19	PPBv		99
38)	HEPTANE	13.22	57	508845	9.94	PPBv		89
39)	MIBK	13.97	43	1102906	9.69	PPBv		97
40)	CIS-1,3DICHLOROPROPENE	13.93	75	809222	10.01	PPBv		99
41)	TRANS-1,3-DICHLOROPROPENE	14.59	75	710806	9.50	PPBv		98
42)	1,1,2-TRICHLOROETHANE	14.82	83	534787	9.88	PPBv		100
43)	TOLUENE	15.19	91	1824096	10.09	PPBv		99
44)	2-HEXANONE(MBK)	15.52	58	546277	9.70	PPBv		93
45)	DIBROMOCHLOROMETHANE	15.74	129	947870	10.01	PPBv		100
46)	1,2-DIBROMOETHANE	16.07	107	907280	9.94	PPBv		99
47)	TETRACHLOROETHENE	16.70	166	891492	10.20	PPBv		98
49)	1,1,1,2-TETRACHLOROETHANE	17.61	135	208875	12.17	PPBv	#	100
50)	CHLOROBENZENE	17.64	112	1393791	10.68	PPBv		98
51)	ETHYLBENZENE	18.17	91	2382638	10.86	PPBv		100
52)	M/P-XYLENE	18.43	106	1912928	22.11	PPBv		96
53)	BROMOFORM	18.54	173	802037	10.36	PPBv		98
54)	STYRENE	18.96	104	1352265	11.72	PPBv		97
55)	O-XYLENE	19.12	106	926881	11.10	PPBv		99
56)	1,1,2,2-TETRACHLOROETHANE	19.11	83	1244944	11.01	PPBv		99
58)	ISOPROPYLBENZENE	20.02	105	2649194	11.53	PPBv	#	100
59)	4-ETHYLTOLUENE	21.09	105	2636724	10.71	PPBv		100
60)	1,3,5-TRIMETHYLBENZENE	21.22	105	2219599m	10.64	PPBv		
61)	1,2,4-TRIMETHYLBENZENE	21.91	105	2089839	10.78	PPBv		100
62)	1,3-DICHLOROBENZENE	22.16	146	1194800	10.34	PPBv		99
63)	BENZYL CHLORIDE	22.13	91	1079295	14.28	PPBv		98
64)	1,4-DICHLOROBENZENE	22.27	146	1172148	9.99	PPBv		100
65)	SEC-BUTYLBENZENE	22.35	105	3160236	11.39	PPBv	#	100
66)	4-ISOPROPYLTOLUENE	22.61	119	2511038	11.30	PPBv	#	98
67)	1,2-DICHLOROBENZENE	22.81	146	1091414	10.39	PPBv		100
68)	BUTYLBENZENE	23.27	91	2252354	11.27	PPBv		98
69)	1,2,4-TRICHLOROBENZENE	25.41	180	493507	9.43	PPBv		100
70)	NAPHTHALENE	25.58	128	1264230	11.13	PPBv		100
71)	HEXACHLOROBUTADIENE	26.16	225	647467	9.60	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030811\A39599.D Vial: 3
Acq On : 8 Mar 2011 8:46 am Operator: KG
Sample : 10ppbv to-15qc Inst : GCMS Air
Misc : 1 Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Mar 8 10:22 2011 Quant Results File: T1022411.RES

Method : C:\HPCHEM\1\METHODS\T1022411.M (Chemstation Integrator)
Title :
Last Update : Fri Feb 25 15:07:15 2011
Response via : Initial Calibration



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104208-BS1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104208-BS1	File ID:	C07481.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/10/11 09:06	Instrument:	Air4		
Batch:	1104208	Sequence:	S101738	Calibration:	1103010

CAS NO.	COMPOUND	CONC. (ppbv)	Q
71-55-6	1,1,1-Trichloroethane	2.0100	
115-07-1	Propene	2.1300	
75-71-8	Dichlorodifluoromethane (Freon12)	1.9600	
74-87-3	Chloromethane	1.5000	
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	1.8500	
75-01-4	Vinyl chloride	1.8800	
106-99-0	1,3-Butadiene	1.9600	
74-83-9	Bromomethane	1.8600	
75-00-3	Chloroethane	2.0200	
67-64-1	Acetone	2.0400	
75-69-4	Trichlorofluoromethane (Freon 11)	1.9600	
64-17-5	Ethanol	1.8000	
75-35-4	1,1-Dichloroethene	1.9800	
107-13-1	Acrylonitrile	2.1200	
75-09-2	Methylene chloride	1.9800	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1.9800	
75-15-0	Carbon disulfide	2.1500	
156-60-5	trans-1,2-Dichloroethene	2.1400	
75-34-3	1,1-Dichloroethane	1.9300	
1634-04-4	Methyl tert-butyl ether	2.3200	
67-63-0	Isopropyl alcohol	2.0900	
78-93-3	2-Butanone (MEK)	2.2500	
156-59-2	cis-1,2-Dichloroethene	2.2100	
110-54-3	Hexane	2.1100	
141-78-6	Ethyl acetate	2.2400	
67-66-3	Chloroform	1.9200	
109-99-9	Tetrahydrofuran	2.5900	
107-06-2	1,2-Dichloroethane	1.9600	
71-43-2	Benzene	2.0700	
56-23-5	Carbon tetrachloride	2.0600	
110-82-7	Cyclohexane	2.1800	
78-87-5	1,2-Dichloropropane	2.0600	

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104208-BS1

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
SDG: 25245
Client: Mitkem Laboratories
Project: See Chain of Custody
Matrix: Air
Laboratory ID: 1104208-BS1
File ID: C07481.D
Preparation: General Air Prep
Initial/Final: 200 ml / 200 ml
Analyzed: 03/10/11 09:06
Instrument: Air4
Batch: 1104208
Sequence: S101738
Calibration: 1103010

CAS NO.	COMPOUND	CONC. (ppbv)	Q
75-27-4	Bromodichloromethane	2.0500	
79-01-6	Trichloroethene	2.2000	
123-91-1	1,4-Dioxane	1.9000	
142-82-5	n-Heptane	2.0700	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.3000	
10061-01-5	cis-1,3-Dichloropropene	2.2800	
10061-02-6	trans-1,3-Dichloropropene	2.5100	
79-00-5	1,1,2-Trichloroethane	2.0900	
108-88-3	Toluene	2.4100	
591-78-6	2-Hexanone (MBK)	2.6600	
124-48-1	Dibromochloromethane	2.2700	
106-93-4	1,2-Dibromoethane (EDB)	2.2200	
127-18-4	Tetrachloroethene	2.2900	
108-90-7	Chlorobenzene	2.0700	
100-41-4	Ethylbenzene	2.4300	
630-20-6	1,1,1,2-Tetrachloroethane	2.2600	
179601-23-1	m,p-Xylene	4.4700	
75-25-2	Bromoform	2.3800	
100-42-5	Styrene	2.5900	
95-47-6	o-Xylene	2.3300	
79-34-5	1,1,2,2-Tetrachloroethane	2.1100	
108-67-8	1,3,5-Trimethylbenzene	2.2400	
622-96-8	4-Ethyltoluene	2.3300	
95-63-6	1,2,4-Trimethylbenzene	2.3100	
98-82-8	Isopropylbenzene	2.2700	
541-73-1	1,3-Dichlorobenzene	1.9800	
100-44-7	Benzyl chloride	2.2300	
106-46-7	1,4-Dichlorobenzene	2.1300	
91-20-3	Naphthalene	2.4400	
95-50-1	1,2-Dichlorobenzene	1.9900	
120-82-1	1,2,4-Trichlorobenzene	2.6500	
87-68-3	Hexachlorobutadiene	2.1300	

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104208-BS1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104208-BS1	File ID:	C07481.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/10/11 09:06	Instrument:	Air4		
Batch:	1104208	Sequence:	S101738	Calibration:	1103010

CAS NO.	COMPOUND	CONC. (ppbv)	Q
135-98-8	sec-Butylbenzene	2.1800	
99-87-6	4-Isopropyltoluene	2.2000	
104-51-8	n-Butylbenzene	2.1400	

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07481.D
Acq On : 10 Mar 2011 9:06 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 10 10:47:08 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.131	128	510309	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.333	114	2471070	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.880	54	310465	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.103	95	1108296	10.25	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 102.50%#			
Target Compounds						Qvalue
2) PROPENE	5.094	42	346218	2.13	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.177	85	1446310	1.96	PPBv #	100
4) CHLOROMETHANE	5.358	50	576688	1.50	PPBv #	100
5) FREON 114	5.464	85	1734027	1.85	PPBv #	100
6) VINYL CHLORIDE	5.600	62	599219	1.88	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.592	62	674408	2.17	PPBv #	100
8) 1,3-BUTADIENE	5.750	54	511863	1.96	PPBv #	100
9) BROMOMETHANE	6.045	94	625020	1.86	PPBv #	100
10) CHLOROETHANE	6.223	64	317005	2.02	PPBv #	100
11) ACETONE	6.830	58	319923	2.04	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.031	101	1992049	1.96	PPBv #	100
13) ETHANOL	6.317	45	165129	1.80	PPBv #	100
14) ACRYLONITRILE	5.750	53	354149	2.12	PPBv #	100
15) 1,1-DICHLOROETHENE	7.697	96	663941	1.98	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.693	96	766527	2.28	PPBv #	100
17) METHYLENE CHLORIDE	7.811	84	564562	1.98	PPBv #	100
18) FREON 113	8.088	101	1223122	1.98	PPBv #	100
19) CARBON DISULFIDE	8.164	76	1387684	2.15	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.812	96	552716	2.14	PPBv #	100
21) 1,1-DICHLOROETHANE	9.033	63	756592	1.93	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.024	63	853761	2.21	PPBv #	100
23) MTBE	9.082	73	1032053	2.32	PPBv #	100
24) IPA	7.064	45	1012421	2.09	PPBv #	100
25) 2-BUTANONE (MEK)	9.441	72	247119	2.25	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.945	96	578314	2.21	PPBv #	100
27) HEXANE	10.174	57	791318	2.11	PPBv #	100
28) ETHYL ACETATE	10.158	61	167205	2.24	PPBv #	100
29) CHLOROFORM	10.268	83	929507	1.92	PPBv #	100
30) TETRAHYDROFURAN	10.729	71	205571	2.59	PPBv #	100
31) 1,2-DICHLOROETHANE	11.107	62	517675	1.96	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.409	97	932188	2.01	PPBv #	100
33) BENZENE	11.944	78	1588713	2.07	PPBv	100
34) CARBON TETRACHLORIDE	12.123	119	1108923	2.06	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07481.D
Acq On : 10 Mar 2011 9:06 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 10 10:47:08 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration

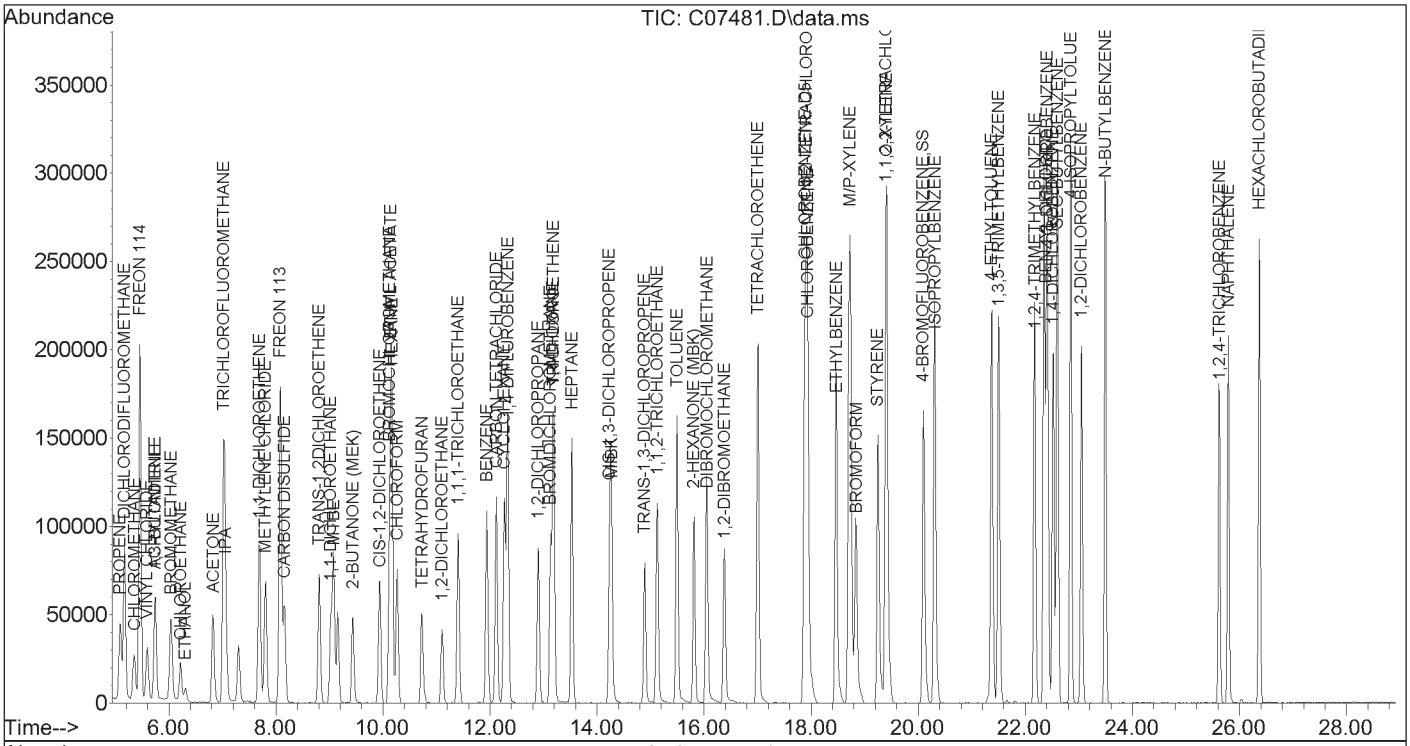
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35] CARBON TETRACHLORIDE (...	12.121	119	1244962	2.24	PPBv #	100
36) CYCLOHEXANE	12.275	56	823411	2.18	PPBv #	100
38) 1,2-DICHLOROPROPANE	12.907	63	531161	2.06	PPBv #	100
39) BROMDICHLOROMETHANE	13.137	83	921133	2.05	PPBv #	100
40) TRICHLOROETHENE	13.190	95	733909	2.20	PPBv #	100
41] TRICHLOROETHENE (SIM)	13.187	95	827413	2.26	PPBv #	100
42) 1,4-DIOXANE	13.182	88	237602	1.90	PPBv #	100
43) HEPTANE	13.533	57	481902	2.07	PPBv #	100
44) MIBK	14.272	43	1283342	2.30	PPBv #	100
45) CIS-1,3-DICHLOROPROPENE	14.240	75	762065	2.28	PPBv #	100
46) TRANS-1,3-DICHLOROPROPENE	14.895	75	664503	2.51	PPBv #	100
47) 1,1,2-TRICHLOROETHANE	15.127	83	540300	2.09	PPBv #	100
48) TOLUENE	15.497	91	2151963	2.41	PPBv #	100
49) 2-HEXANONE (MBK)	15.815	58	612082	2.66	PPBv #	100
50) DIBROMOCHLOROMETHANE	16.053	129	1302463	2.27	PPBv #	100
51) 1,2-DIBROMOETHANE	16.384	107	1089059	2.22	PPBv #	100
52) TETRACHLOROETHENE	17.009	166	1067084	2.29	PPBv #	100
53] TETRACHLOROETHENE (SIM)	17.009	166	1261259	2.32	PPBv #	100
55) CHLOROBENZENE	17.942	112	1837290	2.07	PPBv #	100
56) 1,1,1,2-TETRACHLOROETHANE	17.915	135	283352	2.26	PPBv #	100
57) ETHYLBENZENE	18.469	91	2628164	2.43	PPBv #	100
58) M/P-XYLENE	18.730	106	2372175	4.47	PPBv #	100
59) BROMOFORM	18.843	173	1034327	2.38	PPBv #	100
60) STYRENE	19.245	104	1591653m	2.59	PPBv	
61) O-XYLENE	19.415	106	1170892	2.33	PPBv #	100
62) 1,1,2,2-TETRACHLOROETHANE	19.399	83	1338023	2.11	PPBv #	100
64) ISOPROPYLBENZENE	20.311	105	3003981	2.27	PPBv #	100
65) 4-ETHYLTOLUENE	21.377	105	2902445	2.33	PPBv #	100
66) 1,3,5-TRIMETHYLBENZENE	21.508	105	2374668	2.24	PPBv #	100
67) 1,2,4-TRIMETHYLBENZENE	22.179	105	2184799	2.31	PPBv #	100
68) 1,3-DICHLOROBENZENE	22.418	146	1714602	1.98	PPBv #	100
69) BENZYL CHLORIDE	22.393	91	1443480	2.23	PPBv #	100
70) 1,4-DICHLOROBENZENE	22.526	146	1700641	2.13	PPBv #	100
71) SEC-BUTYLBENZENE	22.603	105	3754608	2.18	PPBv #	100
72) 4-ISOPROPYLTOLUENE	22.854	119	3289309	2.20	PPBv #	100
73) 1,2-DICHLOROBENZENE	23.055	146	1472522	1.99	PPBv #	100
74) N-BUTYLBENZENE	23.500	91	2556244	2.14	PPBv #	100
75) 1,2,4-TRICHLOROBENZENE	25.628	180	905636	2.65	PPBv #	100
76) NAPHTHALENE	25.798	128	2673534	2.44	PPBv	100
77) HEXACHLOROBUTADIENE	26.377	225	713426	2.13	PPBv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Mar2011\Air4\031011\
Data File : C07481.D
Acq On : 10 Mar 2011 9:06 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 10 10:47:08 2011
Quant Method : C:\msdchem\1\METHODS\T4030911L.M
Quant Title :
QLast Update : Thu Mar 10 07:34:22 2011
Response via : Initial Calibration



FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104256-BS1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104256-BS1	File ID:	B36750.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/11/11 08:09	Instrument:	Air2		
Batch:	1104256	Sequence:	S101779	Calibration:	1102028

CAS NO.	COMPOUND	CONC. (ppbv)	Q
115-07-1	Propene	8.89	
75-71-8	Dichlorodifluoromethane (Freon12)	9.43	
74-87-3	Chloromethane	7.75	
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	9.43	
75-01-4	Vinyl chloride	9.03	
106-99-0	1,3-Butadiene	9.13	
74-83-9	Bromomethane	9.31	
75-00-3	Chloroethane	9.17	
67-64-1	Acetone	9.54	
75-69-4	Trichlorofluoromethane (Freon 11)	9.77	
64-17-5	Ethanol	8.79	
75-35-4	1,1-Dichloroethene	8.48	
107-13-1	Acrylonitrile	8.10	
75-09-2	Methylene chloride	8.64	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	9.02	
75-15-0	Carbon disulfide	8.38	
156-60-5	trans-1,2-Dichloroethene	8.72	
75-34-3	1,1-Dichloroethane	8.88	
1634-04-4	Methyl tert-butyl ether	9.25	
67-63-0	Isopropyl alcohol	9.02	
78-93-3	2-Butanone (MEK)	9.77	
156-59-2	cis-1,2-Dichloroethene	9.22	
110-54-3	Hexane	9.13	
141-78-6	Ethyl acetate	10.3	
67-66-3	Chloroform	9.24	
109-99-9	Tetrahydrofuran	9.81	
107-06-2	1,2-Dichloroethane	8.90	
71-55-6	1,1,1-Trichloroethane	9.22	
71-43-2	Benzene	9.24	
56-23-5	Carbon tetrachloride	9.68	
110-82-7	Cyclohexane	8.98	
78-87-5	1,2-Dichloropropane	9.03	

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104256-BS1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104256-BS1	File ID:	B36750.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/11/11 08:09	Instrument:	Air2		
Batch:	1104256	Sequence:	S101779	Calibration:	1102028

CAS NO.	COMPOUND	CONC. (ppbv)	Q
75-27-4	Bromodichloromethane	9.01	
79-01-6	Trichloroethene	9.19	
123-91-1	1,4-Dioxane	8.35	
142-82-5	n-Heptane	9.57	
108-10-1	4-Methyl-2-pentanone (MIBK)	9.53	
10061-01-5	cis-1,3-Dichloropropene	9.29	
10061-02-6	trans-1,3-Dichloropropene	9.45	
79-00-5	1,1,2-Trichloroethane	9.62	
108-88-3	Toluene	9.82	
591-78-6	2-Hexanone (MBK)	9.55	
124-48-1	Dibromochloromethane	9.97	
106-93-4	1,2-Dibromoethane (EDB)	9.79	
127-18-4	Tetrachloroethene	10.5	
108-90-7	Chlorobenzene	10.2	
100-41-4	Ethylbenzene	10.8	
630-20-6	1,1,1,2-Tetrachloroethane	9.47	
179601-23-1	m,p-Xylene	21.9	
75-25-2	Bromoform	11.0	
100-42-5	Styrene	11.8	
95-47-6	o-Xylene	11.2	
79-34-5	1,1,2,2-Tetrachloroethane	10.6	
108-67-8	1,3,5-Trimethylbenzene	10.6	
622-96-8	4-Ethyltoluene	10.8	
95-63-6	1,2,4-Trimethylbenzene	11.5	
98-82-8	Isopropylbenzene	9.50	
541-73-1	1,3-Dichlorobenzene	10.9	
100-44-7	Benzyl chloride	12.6	
106-46-7	1,4-Dichlorobenzene	11.4	
91-20-3	Naphthalene	9.52	
95-50-1	1,2-Dichlorobenzene	11.1	
120-82-1	1,2,4-Trichlorobenzene	9.29	
87-68-3	Hexachlorobutadiene	9.61	

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1104256-BS1

Laboratory:	Spectrum Analytical, Inc. - Agawam, MA			SDG:	25245
Client:	Mitkem Laboratories			Project:	See Chain of Custody
Matrix:	Air	Laboratory ID:	1104256-BS1	File ID:	B36750.D
		Preparation:	General Air Prep	Initial/Final:	200 ml / 200 ml
Analyzed:	03/11/11 08:09	Instrument:	Air2		
Batch:	1104256	Sequence:	S101779	Calibration:	1102028

CAS NO.	COMPOUND	CONC. (ppbv)	Q
135-98-8	sec-Butylbenzene	10.2	
99-87-6	4-Isopropyltoluene	10.2	
104-51-8	n-Butylbenzene	10.1	

Quantitation Report (QT Reviewed)

Data File : G:\MAR2011\AIR2\031111\B36750.D Vial: 10
Acq On : 11 Mar 2011 8:09 am Operator: KG
Sample : 10ppbv to-15qc Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 11 9:39 2011 Quant Results File: T2021511H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) BROMOCHLOROMETHANE	9.28	128	289085	10.00	PPBv		0.00
33) 1,4-DIFLUOROBENZENE	11.50	114	1373384	10.00	PPBv		0.00
48) CHLOROBENZENE-D5	17.08	82	719525	10.00	PPBv		0.00
System Monitoring Compounds							
57) 4-BROMOFLUOROBENZENE	19.32	95	825325	10.59	PPBv		0.00
Spiked Amount 10.000	Range 9 - 15		Recovery = 105.90%#				
Target Compounds							Qvalue
2) PROPENE	4.41	42	189771	8.89	PPBv		96
3) DICHLORODIFLUOROMETHANE	4.48	85	869962	9.43	PPBv		100
4) CHLOROMETHANE	4.65	50	323956m	7.75	PPBv		
5) FREON 114	4.74	85	965773	9.43	PPBv		98
6) VINYL CHLORIDE	4.87	62	315115	9.03	PPBv		100
7) 1,3-BUTADIENE	5.00	54	226981	9.13	PPBv		98
8) BROMOMETHANE	5.28	94	288074	9.31	PPBv		99
9) CHLOROETHANE	5.45	64	137912	9.17	PPBv		97
10) ACETONE	6.06	58	102399	9.54	PPBv	#	100
11) TRICHLOROFLUOROMETHANE	6.20	101	931774	9.77	PPBv		100
12) ETHANOL	5.60	45	71213	8.79	PPBv	#	79
13) ACRYLONITRILE	6.52	53	102385	8.10	PPBv	#	100
14) 1,1-DICHLOROETHENE	6.85	96	212902	8.48	PPBv	#	100
15) METHYLENE CHLORIDE	6.97	84	180348	8.64	PPBv	#	100
16) FREON 113	7.24	101	529434	9.02	PPBv	#	100
17) CARBON DISULFIDE	7.30	76	566764	8.38	PPBv		100
18) TRANS-1,2-DICHLOROETHENE	7.96	96	283103	8.72	PPBv	#	100
19) 1,1-DICHLOROETHANE	8.17	63	568388	8.88	PPBv	#	100
20) MTBE	8.25	73	718788	9.25	PPBv	#	100
21) IPA	6.31	45	317504	9.02	PPBv	#	100
22) 2-BUTANONE(MEK)	8.63	72	148922	9.77	PPBv	#	100
23) CIS-1,2-DICHLOROETHENE	9.09	96	309721	9.22	PPBv	#	100
24) HEXANE	9.31	57	497898	9.13	PPBv	#	100
25) ETHYL ACETATE	9.35	61	111263	10.33	PPBv	#	100
26) CHLOROFORM	9.42	83	691449	9.24	PPBv	#	100
27) TETRAHYDROFURAN	9.93	71	121139	9.81	PPBv	#	100
28) 1,2-DICHLOROETHANE	10.26	62	404248	8.90	PPBv	#	100
29) 1,1,1-TRICHLOROETHANE	10.55	97	664959	9.22	PPBv	#	100
30) BENZENE	11.09	78	962831	9.24	PPBv		100
31) CARBON TETRACHLORIDE	11.26	119	659973	9.68	PPBv	#	100
32) CYCLOHEXANE	11.41	56	493917	8.98	PPBv	#	100
34) 1,2-DICHLOROPROPANE	12.07	63	372641	9.03	PPBv	#	100
35) BROMODICHLOROMETHANE	12.30	83	699845	9.01	PPBv	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\MAR2011\AIR2\031111\B36750.D Vial: 10
Acq On : 11 Mar 2011 8:09 am Operator: KG
Sample : 10ppbv to-15qc Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 11 9:39 2011 Quant Results File: T2021511H.RES

Quant Method : C:\MSDCHEM\1\METHODS\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration
DataAcq Meth : BT15403B

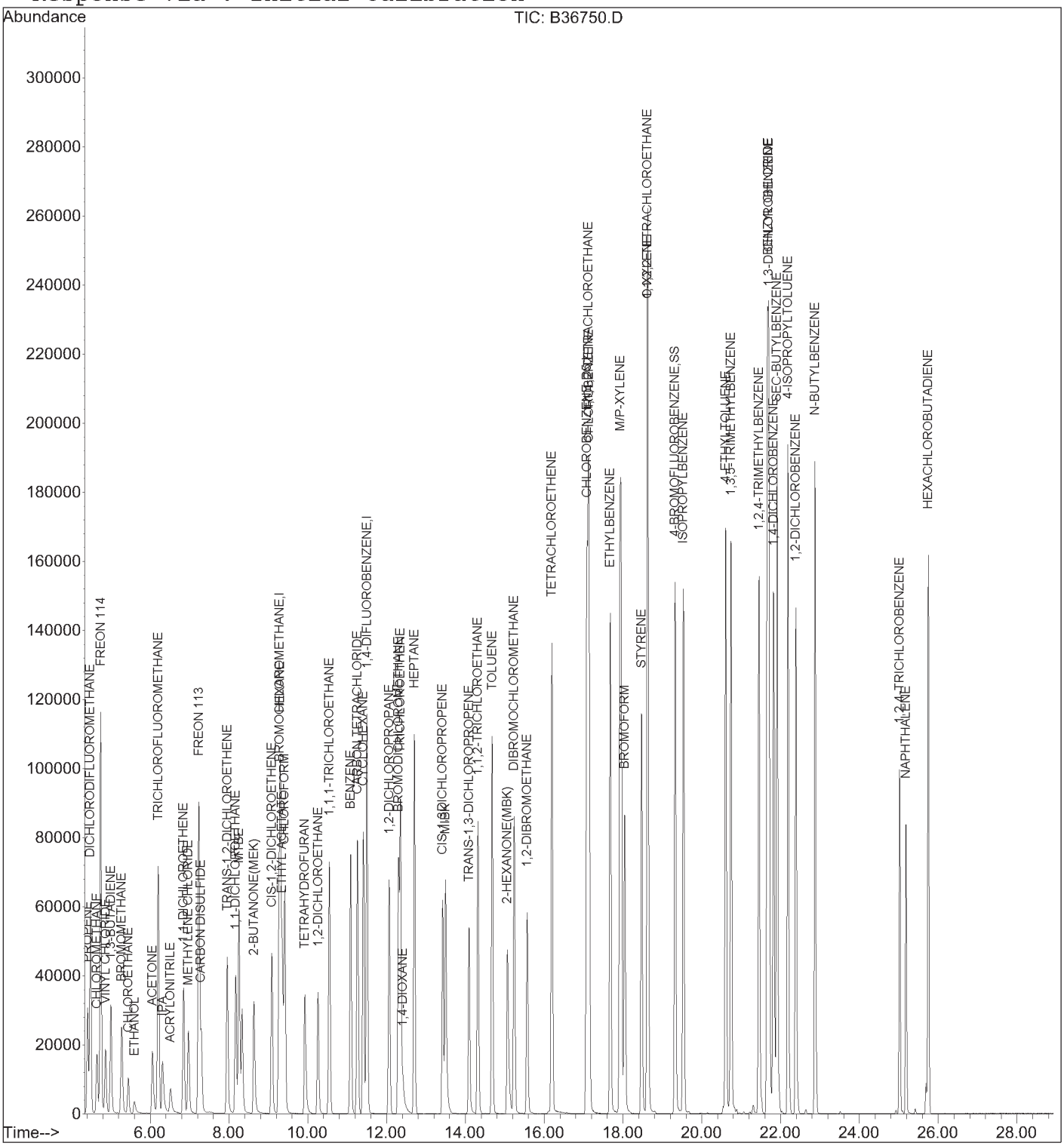
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	TRICHLOROETHENE	12.35	95	425877	9.19	PPBv	#	100
37)	1,4-DIOXANE	12.41	88	141163	8.35	PPBv	#	100
38)	HEPTANE	12.71	57	334567	9.57	PPBv	#	100
39)	MIBK	13.50	43	792288	9.53	PPBv	#	100
40)	CIS-1,3DICHLOROPROPENE	13.42	75	508717	9.29	PPBv	#	100
41)	TRANS-1,3-DICHLOROPROPENE	14.09	75	438372	9.45	PPBv	#	100
42)	1,1,2-TRICHLOROETHANE	14.32	83	373174	9.62	PPBv	#	100
43)	TOLUENE	14.68	91	1185680	9.82	PPBv	#	100
44)	2-HEXANONE(MBK)	15.07	58	324795	9.55	PPBv	#	100
45)	DIBROMOCHLOROMETHANE	15.24	129	730529	9.97	PPBv	#	100
46)	1,2-DIBROMOETHANE	15.57	107	625737	9.79	PPBv	#	100
47)	TETRACHLOROETHENE	16.20	166	607496	10.48	PPBv	#	100
49)	CHLOROBENZENE	17.14	112	1016691	10.21	PPBv		98
50)	1,1,1,2-TETRACHLOROETHANE	17.12	131	520442	9.47	PPBv	#	100
51)	ETHYLBENZENE	17.68	91	1619604	10.84	PPBv	#	100
52)	M/P-XYLENE	17.94	106	1310968	21.88	PPBv		90
53)	BROMOFORM	18.05	173	693663	10.95	PPBv		98
54)	STYRENE	18.47	104	902559	11.81	PPBv	#	100
55)	O-XYLENE	18.63	106	659017	11.23	PPBv		94
56)	1,1,2,2-TETRACHLOROETHANE	18.62	83	997543	10.59	PPBv	#	100
58)	ISOPROPYLBENZENE	19.54	105	1606750	9.50	PPBv	#	100
59)	4-ETHYLTOLUENE	20.61	105	1729504	10.79	PPBv	#	87
60)	1,3,5-TRIMETHYLBENZENE	20.74	105	1433138	10.63	PPBv	#	100
61)	1,2,4-TRIMETHYLBENZENE	21.45	105	1468397	11.51	PPBv		96
62)	1,3-DICHLOROBENZENE	21.70	146	1047608	10.94	PPBv		99
63)	BENZYL CHLORIDE	21.68	91	1174791	12.55	PPBv		100
64)	1,4-DICHLOROBENZENE	21.82	146	1082808	11.42	PPBv	#	72
65)	SEC-BUTYLBENZENE	21.91	105	2100017	10.15	PPBv		99
66)	4-ISOPROPYLTOLUENE	22.19	119	1651965	10.23	PPBv		97
67)	1,2-DICHLOROBENZENE	22.39	146	979400	11.13	PPBv		98
68)	N-BUTYLBENZENE	22.88	91	1489379	10.09	PPBv		99
69)	1,2,4-TRICHLOROBENZENE	25.02	180	422788	9.29	PPBv		98
70)	NAPHTHALENE	25.18	128	901126	9.52	PPBv		100
71)	HEXACHLOROBUTADIENE	25.75	225	470260	9.61	PPBv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\MAR2011\AIR2\031111\B36750.D Vial: 10
Acq On : 11 Mar 2011 8:09 am Operator: KG
Sample : 10ppbv to-15qc Inst : AIR2
Misc : 1 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Mar 11 9:39 2011 Quant Results File: T2021511H.RE

Method : F:\AIR\AIRMETHODS\2011\T2021511H.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 16 08:10:21 2011
Response via : Initial Calibration



GC/MS Volatile Organics
Method TO-15

Data Processing Summary

SPECTRUM ANALYTICAL, INC. - PREPARATION BENCH SHEET

1104127

Method No.: T1022411

Matrix: Air **Prepared using: Air - General Air Prep** **Surrogate used: 11A1084**

Lab Number	Client Sample ID	Collected	Initial (ml)	Final (ml)	Spike ID	Source ID	Analysis	Due	Pres.	Comments
1104127-BLK1	Blank	08-Mar-11 07:00	200	200			QC			
1104127-BS1	LCS	08-Mar-11 07:00	200	200	10F0610		QC			
1104127-DUP1	Duplicate	04-Mar-11 09:25	200	200		SB25311-01	QC			
SB25245-03	B1-SS2-030211 KO	03-Mar-11 11:53	200	200			TO-15	14-Mar-11 16:00	-1	**client requested Sim/ASP-B**
SB25245-05	B1-SS1-030211	03-Mar-11 12:05	200	200			TO-15	14-Mar-11 16:00	-4	**client requested Sim/ASP-B**
SB25245-07	B1-IA2-030211	03-Mar-11 10:00	200	200			TO-15	14-Mar-11 16:00	0	**client requested Sim/ASP-B**
SB25245-10	B1-Dup-030211	03-Mar-11 12:00	200	200			TO-15	14-Mar-11 16:00	+1	**client requested Sim/ASP-B**
SB25245-11	SG-2-030311	03-Mar-11 10:32	200	200			TO-15	14-Mar-11 16:00	+1	**client requested Sim/ASP-B**
SB25245-12	B2-IA1-030211	03-Mar-11 10:17	200	200			TO-15	14-Mar-11 16:00	+1	**client requested Sim/ASP-B**
SB25252-01	Tecton 1st Floor Above Baser	03-Mar-11 17:00	200	200			TO-14 A	15-Mar-11 16:00	-5	
SB25252-02	Tecton 1st Floor	03-Mar-11 17:00	200	200			TO-14 A	15-Mar-11 16:00	-6	
SB25252-03	Bldg 1 Basement	03-Mar-11 17:00	200	200			TO-14 A	15-Mar-11 16:00	+1	
SB25252-04	Bldg 2 Gallery	03-Mar-11 17:00	200	200			TO-14 A	15-Mar-11 16:00	-8	
SB25311-01	SVE-1-03042011	04-Mar-11 09:25	200	200			TO-14 A		-3	**BatchQC**
SB25311-01	SVE-1-03042011	04-Mar-11 09:25	200	200			TO-14 Screen	14-Mar-11 15:00	-3	**RCP**
SB25311-01	SVE-1-03042011	04-Mar-11 09:25	200	200			TO-15		-3	**BatchQC**
SB25311-02	SVE-2-03042011	04-Mar-11 11:15	200	200			TO-14 Screen	14-Mar-11 15:00	-1	**RCP**
SB25311-03	SVE-C-03042011	04-Mar-11 10:19	200	200			TO-14 Screen	14-Mar-11 15:00	0	**RCP**
SB25311-04	SVE-D-03042011	04-Mar-11 10:40	200	200			TO-14 Screen	14-Mar-11 15:00	-1	**RCP**
SB25311-05	SVE-E-03042011	04-Mar-11 10:56	200	200			TO-14 Screen	14-Mar-11 15:00	-6	**RCP**

3/10/11 +
3/11/11
Analyst Reviewed Date

3/14/11
Manager Reviewed Date

Extracts Received By Date

Printed: 3/11/2011 4:26:00PM

SPECTRUM ANALYTICAL, INC. - PREPARATION BENCH SHEET

1104127

Method No.: _____

Matrix: Air **Prepared using: Air - General Air Prep** **Surrogate used: 11A1084**

Lab Number	Client Sample ID	Collected	Initial (ml)	Final (ml)	Spike ID	Source ID	Analysis	Due	Pres.	Comments
Air1										
3/8/11										
TO-14 A										
TO-14 Screen										
TO-15										
KG										

Analyst Reviewed Date

Manager Reviewed Date

Extracts Received By Date

Printed: 3/11/2011 4:26:00PM

SPECTRUM ANALYTICAL, INC. - PREPARATION BENCH SHEET

1104208

Method No.: T4030911L

Matrix: Air **Prepared using: Air - General Air Prep** **Surrogate used: 11A1084**

Lab Number	Client Sample ID	Collected	Initial (ml)	Final (ml)	Spike ID	Source ID	Analysis	Due	Pres.	Comments
1104208-BLK1	Blank	10-Mar-11 08:00	200	200			QC			
1104208-BS1	LCS	10-Mar-11 08:00	200	200	10F1046		QC			
SB25167-04	AB-1 KG	02-Mar-11 18:25	200	200			TO-15 Low Leve	10-Mar-11 15:00	-6	**NYS CAT B or MA DEP Reporting**
SB25245-01	B3-SS1-030211	03-Mar-11 12:13	200	200			TO-15 Low Leve	14-Mar-11 15:00	-6	**client requested Sim/ASP-B**
SB25245-02	AA1-030211	03-Mar-11 10:20	200	200			TO-15 Low Leve	14-Mar-11 15:00	+1	**client requested Sim/ASP-B**
SB25245-04	B3-IA1-030211	03-Mar-11 09:45	200	200			TO-15 Low Leve	14-Mar-11 15:00	-3	**client requested Sim/ASP-B**
SB25245-06	B1-IA1-030211	03-Mar-11 09:52	200	200			TO-15 Low Leve	14-Mar-11 15:00	0	**client requested Sim/ASP-B**
SB25245-07	B1-IA2-030211	03-Mar-11 10:00	200	200			TO-15 Low Leve	14-Mar-11 15:00	0	**client requested Sim/ASP-B**
SB25245-08	B2-SS1-030211	03-Mar-11 13:50	200	200			TO-15 Low Leve	14-Mar-11 15:00	-15	**client requested Sim/ASP-B**
SB25245-09	SG-1-030311	03-Mar-11 11:10	200	200			TO-15 Low Leve	14-Mar-11 15:00	+1	**client requested Sim/ASP-B**
SB25245-10	B1-Dup-030211	03-Mar-11 12:00	200	200			TO-15 Low Leve	14-Mar-11 15:00	+1	**client requested Sim/ASP-B**
SB25245-12	B2-IA1-030211	03-Mar-11 10:17	200	200			TO-15 Low Leve	14-Mar-11 15:00	+1	**client requested Sim/ASP-B**

Air4
3/10/11
TO-15 Low Level
KG

3/10/11 / 3/11/11
Analyst Reviewed Date

3/14/11
Manager Reviewed Date

Extracts Received By Date

Printed: 3/11/2011 2:26:01PM

SPECTRUM ANALYTICAL, INC. - PREPARATION BENCH SHEET

1104256

Method No.: T2021511H

Matrix: Air **Prepared using: Air - General Air Prep** **Surrogate used: 11A1084**

Lab Number	Client Sample ID	Collected	Initial (ml)	Final (ml)	Spike ID	Source ID	Analysis	Due	Pres.	Comments
1104256-BLK1	Blank	11-Mar-11 07:00	200	200			QC			
1104256-BS1	LCS	11-Mar-11 07:00	200	200	10F0610		QC			
1104256-DUP1	Duplicate	09-Mar-11 14:32	200	200		SB25437-09	QC			
SB25245-04	B3-IA1-030211	03-Mar-11 09:45	200	200			TO-15	14-Mar-11 16:00	-3	**client requested Sim/ASP-B**
SB25245-06	B1-IA1-030211	03-Mar-11 09:52	200	200			TO-15	14-Mar-11 16:00	0	**client requested Sim/ASP-B**
SB25245-09	SG-1-030311	03-Mar-11 11:10	200	200			TO-15	14-Mar-11 16:00	-1	**client requested Sim/ASP-B**
SB25437-02	ESL-TV2-030811	08-Mar-11 09:55	200	200			AIRTICs	15-Mar-11 15:00	-1	**Level 2**
SB25437-02	ESL-TV2-030811	08-Mar-11 09:55	200	200			TO-15	15-Mar-11 15:00	-1	**Level 2**
SB25437-03	ESL-TV3-030811	08-Mar-11 09:57	200	200			AIRTICs	15-Mar-11 15:00	-1	**Level 2**
SB25437-03	ESL-TV3-030811	08-Mar-11 09:57	200	200			TO-15	15-Mar-11 15:00	-1	**Level 2**
SB25437-04	ESL-TV4-030811	08-Mar-11 10:00	200	200			AIRTICs	15-Mar-11 15:00	-1	**Level 2**
SB25437-04	ESL-TV4-030811	08-Mar-11 10:00	200	200			TO-15	15-Mar-11 15:00	-1	**Level 2**
SB25437-05	ESL-TV5-030811	08-Mar-11 10:02	200	200			AIRTICs	15-Mar-11 15:00	-3	**Level 2**
SB25437-05	ESL-TV5-030811	08-Mar-11 10:02	200	200			TO-15	15-Mar-11 15:00	-3	**Level 2**
SB25437-06	ESL-AS-030911	09-Mar-11 14:22	200	200			AIRTICs	14-Mar-11 12:00	+1	**Level 2**
SB25437-06	ESL-AS-030911	09-Mar-11 14:22	200	200			TO-15	14-Mar-11 12:00	+1	**Level 2**
SB25437-07	ESL-VGAC-030911	09-Mar-11 14:25	200	200			AIRTICs	14-Mar-11 12:00	0	**Level 2**
SB25437-07	ESL-VGAC-030911	09-Mar-11 14:25	200	200			TO-15	14-Mar-11 12:00	0	**Level 2**
SB25437-08	ESL-BCP-030911	09-Mar-11 14:28	200	200			AIRTICs	14-Mar-11 12:00	0	**Level 2**
SB25437-08	ESL-BCP-030911	09-Mar-11 14:28	200	200			TO-15	14-Mar-11 12:00	0	**Level 2**
SB25437-09	ESL-VPP-030911	09-Mar-11 14:32	200	200			AIRTICs	14-Mar-11 10:00	-1	**Level 2**
SB25437-09	ESL-VPP-030911	09-Mar-11 14:32	200	200			TO-15	14-Mar-11 10:00	-1	**Level 2**
SB25437-10	ESL-AD-030911	09-Mar-11 14:35	200	200			AIRTICs	14-Mar-11 10:00	-1	**Level 2**
SB25437-10	ESL-AD-030911	09-Mar-11 14:35	200	200			TO-15	14-Mar-11 10:00	-1	**Level 2**

3/14/11
Analyst Reviewed Date

3/14/11
Manager Reviewed Date

Extracts Received By Date

Printed: 3/14/2011 9:30:13AM

SPECTRUM ANALYTICAL, INC. - PREPARATION BENCH SHEET

1104256

Method No.: _____

Matrix: Air **Prepared using: Air - General Air Prep** **Surrogate used: 11A1084**

Lab Number	Client Sample ID	Collected	Initial (ml)	Final (ml)	Spike ID	Source ID	Analysis	Due	Pres.	Comments
SB25466-01	IAQ-3 KG	09-Mar-11 12:13	200	200			TO-15	15-Mar-11 15:00	-5	**Client requested SIM**
SB25466-02	IAQ-4	09-Mar-11 12:09	200	200			TO-15	15-Mar-11 15:00	+1	**Client requested SIM**

Air2
3/11/11
AIRTICs
TO-15
KG

Analyst Reviewed Date

Manager Reviewed Date

Extracts Received By Date

Printed: 3/14/2011 9:30:13AM

Sequence Name: C:\MSDchem\1\sequence\021511.S
Comment:
Operator: KG
Data Path: c:\MSDchem\1\DATA\021511\
Pre Seq Cmd:
Post Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	2	B36419	BT15403B	10ppbv to--15ccc
2	Sample	3	B36420	BT15403B	10ppbv to-15ccc
3	Sample	4	B36421	BT15403B	10ppbv to-15qc
4	Sample	1	B36422	BT15403B	mb
5	Sample	1	B36423	BT15403B	0.5ppbv to-15std
6	Sample	2	B36424	BT15403B	0.5ppbv to-15std
7	Sample	3	B36425	BT15403B	2ppbv to-15std
8	Sample	4	B36426	BT15403B	5ppbv to-15std
9	Sample	5	B36427	BT15403B	10ppbv to-15std
10	Sample	6	B36428	BT15403B	20ppbv to-15std
11	Sample	1	B36429	BT15403B	mb
12	Sample	2	B36430	BT15403B	25ppbv to-15std
13	Sample	2	B36431	BT15403B	50ppbv to-15std
14	Sample	2	B36432	BT15403B	100ppbv to-15std
15	Sample	3	B36433	BT15403B	mb (aa)
16	Sample	3	B36434	BT15403B	0.5ppbv to-15lod
17	Sample	3	B36435	BT15403B	10ppbv to-15icv
18	Sample	1	B36436	BT15403B	mb

Sequence Name: C:\HPCHEM\1\SEQUENCE\022411.S
Comment:
Operator: KG
Data Path: C:\HPCHEM\1\DATA\022411\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	A39453	AT153077	10ppbv to-15ccc
2	Sample	1	A39454	AT153077	mb/tune check
3	Sample	2	A39455	AT153077	0.5ppbv to-15cal
4	Sample	2	A39456	AT153077	0.5ppbv to-15cal
5	Sample	2	A39457	AT153077	2ppbv to-15cal
6	Sample	2	A39458	AT153077	5ppbv to-15cal
7	Sample	2	A39459	AT153077	10ppbv to-15cal
8	Sample	2	A39460	AT153077	20ppbv to-15cal
9	Sample	3	A39461	AT153077	mb
10	Sample	4	A39462	AT153077	25ppbv to-15cal
11	Sample	4	A39463	AT153077	50ppbv to-15cal
12	Sample	4	A39464	AT153077	100ppbv to-15cal
13	Sample	5	A39465	AT153077	mb
14	Sample	2	A39466	AT153077	0.5ppbv to-15lod
15	Sample	3	A39467	AT153077	10ppbv to-15icv
16	Sample	3	A39468	AT153077	mb
17	Sample	3	A39469	AT153077	mb
18	Sample	4	A39470	AT153077	0.5ppbv to-15cal
19	Sample	5	A39471	AT153077	100ppbv to-15cal
20	Sample	5	A39472	AT153077	mb
21	Sample	6	A39473	AT153077	10ppbv to-15ccc
22	Sample	7	A39474	AT153077	10ppbv to-15icv
23					

Sequence Name: C:\HPCHEM\1\SEQUENCE\030811.S
Comment:
Operator: KG
Data Path: C:\HPCHEM\1\DATA\030811\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	2	A39598	AT153077	10ppbv to-15ccc
2	Sample	3	A39599	AT153077	10ppbv to-15qc
3	Sample	1	A39600	AT153077	mb/can check 4630
4	Sample	1	A39601	AT153077	sb25311-01 @ sve-1 20x to-14s
5	Sample	1	A39601B	AT153077	sb25311-01dup @ sve-1 20x to-
6	Sample	2	A39602	AT153077	sb25311-02 @ sve-2 20x to-14s
7	Sample	3	A39603	AT153077	sb25311-03 @ sve-c 20x to-14s
8	Sample	4	A39604	AT153077	sb25311-04 @ sve-d 20x to-14s
9	Sample	5	A39605	AT153077	sb25311-05 @ sve-e 20x to-14s
10	Sample	6	A39606	AT153077	sb25252-01 @ tecton above bsm
11	Sample	7	A39607	AT153077	sb25252-02 @ tecton 1st flr 1
12	Sample	8	A39608	AT153077	sb25252-03 @ bldg1 bsmt 1x to
13	Sample	9	A39609	AT153077	sb25252-04 @ bldg2 gallery 1x
14	Sample	10	A39610	AT153077	sb25245-03 @ b1-ss2 1x to-15
15	Sample	11	A39611	AT153077	sb25245-05 @ b1-ss1 1x to-15
16	Sample	12	A39612	AT153077	sb25245-07 @ b1-ia2 1x to-15
17	Sample	13	A39613	AT153077	sb25245-10 @ b1-dup 1x to-15
18	Sample	14	A39614	AT153077	sb25245-11 @ sg-2 1x to-15
19	Sample	15	A39615	AT153077	sb25245-12 @ b2-ia1 1x to-15

Sequence Name: C:\msdchem\1\sequence\030911.s
Comment:
Operator: KRL
Data Path: G:\mar2011\AIR4\030911\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name	Misc Info
1)	Sample 1	C07465	T4011910 mb/tune check
2)	Sample 2	C07466	T4011910 0.04ppbv to-15cal
3)	Sample 2	C07467	T4011910 0.04ppbv to-15cal
4)	Sample 3	C07468	T4011910 0.1ppbv to-15cal
5)	Sample 4	C07469	T4011910 0.1ppbv to-15cal
6)	Sample 5	C07470	T4011910 0.2ppbv to-15cal
7)	Sample 6	C07471	T4011910 0.5ppbv to-15cal
8)	Sample 7	C07472	T4011910 1.0ppbv to-15cal
9)	Sample 8	C07473	T4011910 2.0ppbv to-15cal
10)	Sample 9	C07474	T4011910 5.0ppbv to-15cal
11)	Sample 10	C07475	T4011910 10ppbv to-15cal
12)	Sample 2	C07476	T4011910 mb
13)	Sample 2	C07477	T4011910 mb
14)	Sample 3	C07478	T4011910 0.1ppbv to-15lod
15)	Sample 4	C07479	T4011910 2ppbv to-15icv

Sequence Name: C:\msdchem\1\sequence\031011.s
Comment:
Operator: KRL
Data Path: G:\mar2011\AIR4\031011\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info
1)	Sample	5	C07480 T4011910 2ppbv to-15ccc
2)	Sample	1	C07481 T4011910 2ppbv to-15qc
3)	Sample	2	C07482 T4011910 mb/can check 0260
4)	Sample	3	C07483 T4011910 sb25167-04 @ ab-1 1x to-15low
5)	Sample	4	C07484 T4011910 sb25245-01 @ b3-ss1 1x to-15l
6)	Sample	5	C07485 T4011910 sb25245-02 @ aa1 1x to-15low
7)	Sample	6	C07486 T4011910 sb25245-04 @ b3-ia1 1x to-15l
8)	Sample	7	C07487 T4011910 sb25245-06 @ b1-ia1 1x to-15l
9)	Sample	8	C07488 T4011910 sb25245-07 @ b1-ia2 1x to-15l
10)	Sample	9	C07489 T4011910 sb25245-08 @ b2-ss1 1x to-15l
11)	Sample	10	C07490 T4011910 sb25245-09 @ sg-1 1x to-15low
12)	Sample	13	C07491 T4011910 sb25245-10 @ b1-dup 1x to-15l
13)	Sample	14	C07492 T4011910 sb25245-12 @ b2-ia1 1x to-15l
14)	Sample	15	C07493 T4011910 can check 0660 (1000ml)
15)	Sample	15	C07494 T4011910 can check 0660 (1000ml)
16)	Sample	1	C07495 T4011910 can check 5564 (1000ml)
17)	Sample	2	C07496 T4011910 can check 0243 (1000ml)

Sequence Name: C:\MSDchem\1\sequence\031111.S
Comment:
Operator: KG
Data Path: c:\MSDchem\1\DATA\031111\
Pre Seq Cmd:
Post Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	9	B36749	BT15403B	10ppbv to 15ccc
2	Sample	10	B36750	BT15403B	10ppbv to 15qc
3	Sample	16	B36751	BT15403B	20ug/m3 aph std
4	Sample	1	B36752	BT15403B	mb/can check 7647
5	Sample	1	B36753	BT15403B	sb25437-09 @ vpp 1x to-15/tic
6	Sample	1	B36754	BT15403B	sb25437 09dup @ vpp 1x to-15/
7	Sample	2	B36755	BT15403B	sb25437-10 @ ad 1x to-15/tics
8	Sample	3	B36756	BT15403B	sb25437-06 @ as 10x to-15/tic
9	Sample	4	B36757	BT15403B	sb25437-07 @ vgac 10x to-15/t
10	Sample	5	B36758	BT15403B	sb25437-08 @ bcp 5x to-15/tic
11	Sample	3	B36759	BT15403B	sb25437-06 @ as 5x to-15/tics
12	Sample	6	B36760	BT15403B	sb25437-02 @ tv2 1x to-15/tic
13	Sample	7	B36761	BT15403B	sb25437-03 @ tv3 5x to-15/tic
14	Sample	8	B36762	BT15403B	sb25437-04 @ tv4 8x to-15/tic
15	Sample	9	B36763	BT15403B	sb25437-05 @ tv5 1x to-15/tic
16	Sample	10	B36764	BT15403B	sb25245-04 @ b5 ial 1x to-15
17	Sample	11	B36765	BT15403B	sb25245-06 @ b1 ial 1x to-15
18	Sample	12	B36766	BT15403B	sb25245-09 @ sq 1 1x to-15
19	Sample	13	B36767	BT15403B	sb25466-01 @ iaq-3 1x to-15
20	Sample	14	B36768	BT15403B	sb25466-02 @ iaq-4 1x to-15
21	Sample	15	B36769	BT15403B	sb25466-03 @ ambient 1x to-15

Date/Analyst	File ID	Position	Lab ID	Client ID	DF	Analysis	Comments
2/14/11	B36406		10ppbvTO-15ccc	✓ Batch 1102820			
	07		1 QC	11.9			
	05	1	mb/canchk 0242				
-3	09	1	SB24279-03RE1	EFF 02111	2x	TO-15 Ch1 "Stanley"	✓ 1,1 DCA 44
	10	1	03Dup	↓	↓	↓	✓ DUP
-1	11	2	SB24392-01	1165976	2000x	TO-15	✓ 1,1 DCE-40 1,1DCA-47 DF=1.23
-6	12	3	↓ 02	↓ 77	500x		✓ ↓ 47 1.16
-1	13	4	↓ 03	↓ 78	1	↓	✓ 1,1,1 TCA 41 1.21
-5	14	5	SB24494-01	Kellco Office	1x	TO-15 Ch1	✓ Ace 43 Eth 55
-3	15	6	↓ 02	232 Bgm4	1x	↓	✓ PCE 56
-1	16	7	SB24392-04	1165979	1x	TO-15	✓
+1	17	8	SB24496-01	SVE-1	20x	TO-14 Screen	✓ TCE-7.6
	18	1	mb (AA)				
2/15/11	B36419		10ppbvTO-15ccc				
	20		↓ 1				
	21		↓ QC				
	22	1	mb				
	23		0.5ppbv TO-15 Std				
	24		↓ CAL	✓ Tune			
	25		2				
	26		5				
	27		10				
	28		20				
	29	1	mb				
	30	2	25ppbv TO-15 CAL				
	31	2	50				
	32	2	100				
	33	3	mb (AA)				
	34		0.5ppbv TO-15 ICV				
	35		10ppbv TO-15 ICV				
	36	1	mb				

Signature of Witness:_____ Date:_____

Air-1

File	Pos	Lab ID	Client ID	DF	Analysis	Comments

2/24/11

A39453 (1) 10ppbv TO-15ccc

54 (1) MB / Tune check

55 (2) 0.5ppbv TO-15 cal — Cal #

56 | 0.5

57 | 2

58 | 5

59 | 10

60 | 20

61 (3) MB

62 (4) 25ppbv TO-15 cal

63 | 50

64 | 100

65 (5) MB

~~66 ⊥ ⊥~~ ICAL cut

66

~~67~~ 0.5ppb TO-15 lcd

67

~~68~~ 10ppbv TO-15 ICV

68 (3) MB

69 (3) ⊥

70 (1) 0.5ppbv TO-15 cal

71 100 ppbv TO-15 cal

72 MB

73 10ppbv TO-15 ccc

74 10ppbv TO-15 ICV

2/25/11

A39475 10ppbv TO-15 ccc

76 ⊥ qc

↳ next page

Date/Analyst	File ID	Position	Lab ID	Client ID	DF	Analysis	Comments
3/7/11	A39579B		10ppbvTO-15ccc	14,15,63↑			
	80		⊥ qc	63↑			
	81	1	mb 0651				
	82	2	SB25167-02	SV-7	10x	TO-15 (Low?)	1x H
	83	3	03	⊥ 8	|	|	1x H MP-2
	84	4	04	AB-1	⊥	|	1x (L)
	85	5	05	SV-4	5x*	|	~~1x~~ H 0.5x* DF=2
	86	6	06	| 10	10x	|	1x H
	87	7	07	⊥ 9	5x*	|	10x* IPA 163 DF=2
	88	8	09	Dup-1	10x	|	25x/50x 287
	89	9	11	SV-11	5x*	|	50x cis >1K DF=3
	90	10	13	SV-5	10x	⊥	25/50x IPA 360
	91	11	SB25252-01	Tecton 1st Fl (Above Bsmt)	10x	TO-14A	1x EH 3
	92	12	02	Tecton 1st Fl	|	|	1x
	93	13	03	Bldg 1 Bsmt	|	|	1x
	94	14	⊥ 04	Bldg 2 Gallery	⊥	⊥	1x EH 22
	95	15	SB25234-02	Effluent	20x	TO-15	1x TCE .52
	96	16	⊥ 01	Influent	⊥	⊥	1x PCE 2.7
	97	1	mb (AA)				
3/8/11	A39598		10ppbvTO-15ccc	14,15,63↑		Batch 1104127	
	99		qc	63↑			
	600	1	mb/can check 4630				
-3	01	1	SB25311-01	SVE-1	20x	TO-14 Screen	✓ cis 1.75 TCE 5.96
	01B	1	| 01 Dup	1	|	|	✓ Dup
-1	02	2	| 02	SVE-2	|	|	✓ cis-1 TCE-9
0	03	3	| 03	SVE-C	|	|	1 1.5 ⊥ 5

Signature of Witness:_____ Date:_____

Date/Analyst	File ID	Position	Lab ID	Client ID	DF	Analysis	Comments
3/8/11-1	A39604	4	SB25311-04	SVE-D	20x	TO-14 Screen	✓ C1 S-1.6 TCE-23
KG -6	_05	5	⊥ 05	⊥ E	⊥	⊥	✓ ⊥ 1 1 2.5
-5	06	6	SB25257-01	Tecton above Bsmt	1X	TO-14 A	✓ Eth-37
-6	07	7	02	⊥ 1st Fl	⊥	⊥	✓ ⊥ 41
+1	08	8	03	Bldg 1 Bsmt	⊥	⊥	✓
-8	09	9	04	Bldg2 Gallery	⊥	⊥	✓ Eth-270
-1	10	10	SB25245-03	B1-SS2	1x	TO-15 (Low?)	✓ ACE-36 PCE-11
-4	11	11	05	B1-SS1	⊥	⊥	✓ 19 PTic
0	12	12	07	B1-1A2	⊥	⊥	✓ Ace-11
+1	13	13	10	B1-Dup	⊥	⊥	✓ 6 Eth 7.5
+1	14	14	11	SG-2	⊥	⊥	✓ T-57
+1	15	15	12	B2-1A1	⊥	⊥	Eth-8
3/9/11	A39616		10ppbv TO-15 CCC	14,15,16,03 ↑			
	17		⊥ qc	14,15 ↑ 03 ↑			
	18	1	mb/can check 0719	tun ✓			
	19	1	⊥ 5564				
	20		0.5ppbv TO15 CAL				
	21		0.5				
	22		2				
	23		5				
	24		10				
	25		20				
	26	1	mb 0651				
	27	2	25ppbv TO-15 CAL				
	28	2	50				
	29	2	100				

Signature of Witness:_____ Date: _____

A.I.S.-4

File Pos Lab ID Client ID DF Analysis Comments

3/7/11

C07448 2ppbv TO-15scc

49 ⊥ ⊥ qc
50 (1) can check 0278 (1000ml) ✓
51 (2) 0714 ✓
52 (3) 0272 ✓
53 (4) 1344 ✓
54 (5) 0270 ✓
55 (6) 0273 ✓

3/8/11

C07456 2ppbv TO-15scc

57 2ppbv TO-15
58 (1) Can check 4611 (1000ml)
59 ⊥ 4611 ✓
60 (2) 0222 ✓
61 (3) 4636 ✓
62 (4) 0257 ✓
63 (5) 0489 ✓
64 (6) 4630 ✓

3/9/11

C07465 (1) MB

66 (2) 0.04 ppbv TO-15cal
67 ⊥ 0.04 ✓
68 0.1
69 0.1 ✓
70 0.2
71 0.5

Cont next Pg ⇒

www.scientificbindery88yrs.com

Work continued to Page_____

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

Air-4

File Pos Lab ID Client ID DF Analysis Comments

3/9/11 Cont.

CO7472 1.0 ppbv TO-15 cal

73 2
74 5
75 10
76 (3) MB
77 ⊥ ⊥
78 0.1 ppbv TO-15 lcd
79 (4) 2 ppbv TO-15 ICV

3/10/11

CO7480 2 ppbv TO-15 ccc 76↑ (LCC) Batch 1104208

81 ⊥ qc 49, 75, 76↑
82 (2) mb/can check 0260 (1000ml) ✓
-6 83 (3) SB25167-04 AB-1 1x TO-15 Low ✓
-6 84 (4) SB25245-01 B3-SS1 ✓ Acc 8 Tol 6
+1 85 (5) 02 AA1 ✓ 7
-3 86 (6) 04 B3-1A1 ✓ Eth 12?
0 87 (7) 06 B1-1A1 ✓ Eth 10.8
0 88 (8) 08 B1-1A2 ✓ Acc 10 Eth 10 Batch 1104127
-15 89 (9) 08 B2-SS1 * ✓ 5 4 DF=2
+1 90 (10) 09 S6-1 ✓ Tol (31)!
+1 91 (13) 10 B1-Dup ✓ Eth 10 Batch 1104127
+1 92 (14) 12 B2-1A1 ✓ 11 Batch 1104127
93 (15) can check 0660 (1000ml)
94 (15) ⊥ ✓
95 (1) 5564 ✓ ✓
96 (2) 0243 ✓

www.scientificbindery88yrs.com

Work continued to Page _____

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

Date/Analyst	File ID	Position	Lab ID	Client ID	DF	Analysis	Comments
3/10/11	B33742	2	SB25379-01	InF	400x	TO-15m	✓ Area TB
〃	42B	2	〃 01Dup	〃	〃	〃	✓ Dup
+1	43	3	SB25247-01	VP-5	1x	AP19	✓ Area
0	44	4	〃 02	VP-4			✓ -
0	45	5	SB25354-01	SG-104			✓ PCE 6.7
0	46	6	〃 02	101			✓
-1	47	7	〃 03	103			✓
-2	48	8	〃 04	102			✓
3/11/11	B33749		10ppbv TO-15cc	Batch 1104256			
	50		〃 qc				
	51	16	20ug/m³ APH std				
	52	1	mb/canCheck 7637				
-1	53	1	SB25437-09	WIP	1x	TO-15 E.L. +TICs	✓ THF 55
	54	1	〃 09Dup	〃	〃	〃	✓ Dup
-1	55	2	〃 10	AD	〃	〃	✓ -
+1	56	3	〃 06	AS	10x	〃	5x
0	57	4	〃 07	VOAC	10x	〃	✓ cis 74
0	58	5	〃 08	BCP	5x	〃	✓ VC 59
+1	59	3	〃 06	AS	5x	〃	~~2x~~ Cis 66
-1	60	6	〃 02	TV2	1x	〃	MCl. H2 THF-160
-1	61	7	〃 03	3	5x	〃	✓ 39 THF-300
-1	62	8	〃 04	4	8x	〃	✓ 40 8
-3	63	9	〃 05	5	1x	〃	✓ T52 200
-3	64	10	SB25245-04	B3-1A1	1x	TO-15	✓
0	65	11	〃 06	B1-1A1	1x	〃	✓
-1	66	12	〃 09	SG-1	1x	〃	✓ T-28
-5	67	13	SB25466-01	IAQ-3	1x	TO-15 (Low?)	✓ RE1 ACE-1113 IPA-380
+1	68	14	〃 02	4	〃	〃	✓ 1 1123 382
+1	69	15	〃 03	Ambient	〃	〃	✗ Ace 8.57 clo?

Signature of Witness:_____ Date: _____

GC/MS Volatile Organics
Method TO-15

Canister Cleaning Data

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Certificate of Analysis

Container Type	**Summa Canister**	Date of Analysis	**20-Jan-11**
Canister ID #	**217**	Analyst's Initials	**KRL**

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	Quantitation Limit (ppbv)	Analyte	Quantitation Limit (ppbv)
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	1,4-Dioxane	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.1	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.1
1,3-Butadiene	<0.1	Hexane	<0.1
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.1	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,1,1,2-Tetrachlorethane	<0.1	Naphthalene	<0.5
4-Isopropyltoluene	<0.1	n-Butylbenze	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.1
Dibromochloromethane	<0.1	Tetrachloroethene	<0.1
1,2-Dibromoethane (EDB)	<0.1	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.1	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.1
1,1-Dichloroethane	<0.1	Trichloroethene	<0.1
1,2-Dichloroethane	<0.1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.1	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.1	Vinyl chloride	<0.1
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.1
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

Approved By:

11 Almgren Drive • Agawam, MA 01001 • Operational Building & Sample Receiving
830 Silver Street • Agawam, MA 01001 • Administrative Offices, Volatile & Air Departments
1-800-789-9115 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Certificate of Analysis

Container Type	**Summa Canister**	Date of Analysis	**08-Feb-11**
Canister ID #	**470**	Analyst's Initials	**KRL**

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	Quantitation Limit (ppbv)	Analyte	Quantitation Limit (ppbv)
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	1,4-Dioxane	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.1	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.1
1,3-Butadiene	<0.1	Hexane	<0.1
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.1	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,1,1,2-Tetrachlorethane	<0.1	Naphthalene	<0.5
4-Isopropyltoluene	<0.1	n-Butylbenze	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.1
Dibromochloromethane	<0.1	Tetrachloroethene	<0.1
1,2-Dibromoethane (EDB)	<0.1	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.1	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.1
1,1-Dichloroethane	<0.1	Trichloroethene	<0.1
1,2-Dichloroethane	<0.1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.1	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.1	Vinyl chloride	<0.1
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.1
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

Approved By:

11 Almgren Drive • Agawam, MA 01001 • Operational Building & Sample Receiving
830 Silver Street • Agawam, MA 01001 • Administrative Offices, Volatile & Air Departments
1-800-789-9115 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Certificate of Analysis

Container Type	**Summa Canister**	Date of Analysis	**16-Feb-11**
Canister ID #	**471**	Analyst's Initials	**KRL**

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	Quantitation Limit (ppbv)	Analyte	Quantitation Limit (ppbv)
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	1,4-Dioxane	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.1	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.1
1,3-Butadiene	<0.1	Hexane	<0.1
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.1	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,1,1,2-Tetrachlorethane	<0.1	Naphthalene	<0.5
4-Isopropyltoluene	<0.1	n-Butylbenze	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.1
Dibromochloromethane	<0.1	Tetrachloroethene	<0.1
1,2-Dibromoethane (EDB)	<0.1	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.1	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.1
1,1-Dichloroethane	<0.1	Trichloroethene	<0.1
1,2-Dichloroethane	<0.1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.1	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.1	Vinyl chloride	<0.1
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.1
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

Approved By:

11 Almgren Drive • Agawam, MA 01001 • Operational Building & Sample Receiving
830 Silver Street • Agawam, MA 01001 • Administrative Offices, Volatile & Air Departments
1-800-789-9115 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Certificate of Analysis

Container Type	**Summa Canister**	Date of Analysis	**01-Feb-11**
Canister ID #	**498**	Analyst's Initials	**KRL**

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	Quantitation Limit (ppbv)	Analyte	Quantitation Limit (ppbv)
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	1,4-Dioxane	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.1	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.1
1,3-Butadiene	<0.1	Hexane	<0.1
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.1	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,1,1,2-Tetrachlorethane	<0.1	Naphthalene	<0.5
4-Isopropyltoluene	<0.1	n-Butylbenze	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.1
Dibromochloromethane	<0.1	Tetrachloroethene	<0.1
1,2-Dibromoethane (EDB)	<0.1	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.1	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.1
1,1-Dichloroethane	<0.1	Trichloroethene	<0.1
1,2-Dichloroethane	<0.1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.1	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.1	Vinyl chloride	<0.1
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.1
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

Approved By:

11 Almgren Drive • Agawam, MA 01001 • Operational Building & Sample Receiving
830 Silver Street • Agawam, MA 01001 • Administrative Offices, Volatile & Air Departments
1-800-789-9115 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Certificate of Analysis

Container Type	**Summa Canister**	Date of Analysis	**16-Feb-11**
Canister ID #	**669**	Analyst's Initials	**KRL**

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	Quantitation Limit (ppbv)	Analyte	Quantitation Limit (ppbv)
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	1,4-Dioxane	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.1	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.1
1,3-Butadiene	<0.1	Hexane	<0.1
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.1	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,1,1,2-Tetrachlorethane	<0.1	Naphthalene	<0.5
4-Isopropyltoluene	<0.1	n-Butylbenze	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.1
Dibromochloromethane	<0.1	Tetrachloroethene	<0.1
1,2-Dibromoethane (EDB)	<0.1	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.1	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.1
1,1-Dichloroethane	<0.1	Trichloroethene	<0.1
1,2-Dichloroethane	<0.1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.1	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.1	Vinyl chloride	<0.1
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.1
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

Approved By:

11 Almgren Drive • Agawam, MA 01001 • Operational Building & Sample Receiving
830 Silver Street • Agawam, MA 01001 • Administrative Offices, Volatile & Air Departments
1-800-789-9115 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Certificate of Analysis

Container Type	**Summa Canister**	Date of Analysis	**20-Jan-11**
Canister ID #	**1345**	Analyst's Initials	**KRL**

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	Quantitation Limit (ppbv)	Analyte	Quantitation Limit (ppbv)
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	1,4-Dioxane	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.1	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.1
1,3-Butadiene	<0.1	Hexane	<0.1
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.1	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,1,1,2-Tetrachlorethane	<0.1	Naphthalene	<0.5
4-Isopropyltoluene	<0.1	n-Butylbenze	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.1
Dibromochloromethane	<0.1	Tetrachloroethene	<0.1
1,2-Dibromoethane (EDB)	<0.1	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.1	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.1
1,1-Dichloroethane	<0.1	Trichloroethene	<0.1
1,2-Dichloroethane	<0.1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.1	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.1	Vinyl chloride	<0.1
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.1
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

Approved By:

11 Almgren Drive • Agawam, MA 01001 • Operational Building & Sample Receiving
830 Silver Street • Agawam, MA 01001 • Administrative Offices, Volatile & Air Departments
1-800-789-9115 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Certificate of Analysis

Container Type	**Summa Canister**	Date of Analysis	**16-Feb-11**
Canister ID #	**1346**	Analyst's Initials	**KRL**

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	Quantitation Limit (ppbv)	Analyte	Quantitation Limit (ppbv)
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	1,4-Dioxane	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.1	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.1
1,3-Butadiene	<0.1	Hexane	<0.1
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.1	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,1,1,2-Tetrachlorethane	<0.1	Naphthalene	<0.5
4-Isopropyltoluene	<0.1	n-Butylbenze	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.1
Dibromochloromethane	<0.1	Tetrachloroethene	<0.1
1,2-Dibromoethane (EDB)	<0.1	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.1	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.1
1,1-Dichloroethane	<0.1	Trichloroethene	<0.1
1,2-Dichloroethane	<0.1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.1	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.1	Vinyl chloride	<0.1
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.1
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

Approved By:

11 Almgren Drive • Agawam, MA 01001 • Operational Building & Sample Receiving
830 Silver Street • Agawam, MA 01001 • Administrative Offices, Volatile & Air Departments
1-800-789-9115 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Certificate of Analysis

Container Type	**Summa Canister**	Date of Analysis	**20-Jan-11**
Canister ID #	**1363**	Analyst's Initials	**KRL**

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	Quantitation Limit (ppbv)	Analyte	Quantitation Limit (ppbv)
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	1,4-Dioxane	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.1	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.1
1,3-Butadiene	<0.1	Hexane	<0.1
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.1	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,1,1,2-Tetrachlorethane	<0.1	Naphthalene	<0.5
4-Isopropyltoluene	<0.1	n-Butylbenze	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.1
Dibromochloromethane	<0.1	Tetrachloroethene	<0.1
1,2-Dibromoethane (EDB)	<0.1	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.1	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.1
1,1-Dichloroethane	<0.1	Trichloroethene	<0.1
1,2-Dichloroethane	<0.1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.1	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.1	Vinyl chloride	<0.1
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.1
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

Approved By:

11 Almgren Drive • Agawam, MA 01001 • Operational Building & Sample Receiving
830 Silver Street • Agawam, MA 01001 • Administrative Offices, Volatile & Air Departments
1-800-789-9115 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Certificate of Analysis

Container Type	**Summa Canister**	Date of Analysis	**16-Feb-11**
Canister ID #	**1645**	Analyst's Initials	**KRL**

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	Quantitation Limit (ppbv)	Analyte	Quantitation Limit (ppbv)
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	1,4-Dioxane	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.1	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.1
1,3-Butadiene	<0.1	Hexane	<0.1
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.1	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,1,1,2-Tetrachlorethane	<0.1	Naphthalene	<0.5
4-Isopropyltoluene	<0.1	n-Butylbenze	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.1
Dibromochloromethane	<0.1	Tetrachloroethene	<0.1
1,2-Dibromoethane (EDB)	<0.1	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.1	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.1
1,1-Dichloroethane	<0.1	Trichloroethene	<0.1
1,2-Dichloroethane	<0.1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.1	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.1	Vinyl chloride	<0.1
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.1
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

Approved By:

11 Almgren Drive • Agawam, MA 01001 • Operational Building & Sample Receiving
830 Silver Street • Agawam, MA 01001 • Administrative Offices, Volatile & Air Departments
1-800-789-9115 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Certificate of Analysis

Container Type	**Summa Canister**	Date of Analysis	**20-Jan-11**
Canister ID #	**1657**	Analyst's Initials	**KRL**

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	Quantitation Limit (ppbv)	Analyte	Quantitation Limit (ppbv)
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	1,4-Dioxane	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.1	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.1
1,3-Butadiene	<0.1	Hexane	<0.1
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.1	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,1,1,2-Tetrachlorethane	<0.1	Naphthalene	<0.5
4-Isopropyltoluene	<0.1	n-Butylbenze	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.1
Dibromochloromethane	<0.1	Tetrachloroethene	<0.1
1,2-Dibromoethane (EDB)	<0.1	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.1	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.1
1,1-Dichloroethane	<0.1	Trichloroethene	<0.1
1,2-Dichloroethane	<0.1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.1	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.1	Vinyl chloride	<0.1
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.1
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

Approved By:

11 Almgren Drive • Agawam, MA 01001 • Operational Building & Sample Receiving
830 Silver Street • Agawam, MA 01001 • Administrative Offices, Volatile & Air Departments
1-800-789-9115 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Certificate of Analysis

Container Type	**Summa Canister**	Date of Analysis	**04-Jan-11**
Canister ID #	**5566**	Analyst's Initials	**KRL**

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	Quantitation Limit (ppbv)	Analyte	Quantitation Limit (ppbv)
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	1,4-Dioxane	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.1	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.1
1,3-Butadiene	<0.1	Hexane	<0.1
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.1	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,1,1,2-Tetrachlorethane	<0.1	Naphthalene	<0.5
4-Isopropyltoluene	<0.1	n-Butylbenze	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.1
Dibromochloromethane	<0.1	Tetrachloroethene	<0.1
1,2-Dibromoethane (EDB)	<0.1	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.1	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.1
1,1-Dichloroethane	<0.1	Trichloroethene	<0.1
1,2-Dichloroethane	<0.1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.1	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.1	Vinyl chloride	<0.1
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.1
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

Approved By:

11 Almgren Drive • Agawam, MA 01001 • Operational Building & Sample Receiving
830 Silver Street • Agawam, MA 01001 • Administrative Offices, Volatile & Air Departments
1-800-789-9115 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Certificate of Analysis

Container Type	**Summa Canister**	Date of Analysis	**16-Feb-11**
Canister ID #	**7641**	Analyst's Initials	**KRL**

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	Quantitation Limit (ppbv)	Analyte	Quantitation Limit (ppbv)
Acetone	<0.5	Ethanol	<0.5
Acrylonitrile	<0.1	1,4-Dioxane	<0.5
Benzene	<0.1	Ethyl acetate	<0.1
Benzyl chloride	<0.1	Ethylbenzene	<0.1
Bromodichloromethane	<0.1	4-Ethyltoluene	<0.1
Bromoform	<0.1	n-Heptane	<0.1
Bromomethane	<0.1	Hexachlorobutadiene	<0.1
1,3-Butadiene	<0.1	Hexane	<0.1
2-Butanone (MEK)	<0.1	2-Hexanone (MBK)	<0.1
Carbon disulfide	<0.5	Isopropyl alcohol	<0.5
Carbon tetrachloride	<0.1	4-Methyl-2-pentanone (MIBK)	<0.1
Chlorobenzene	<0.1	Methyl tert-butyl ether	<0.1
Chloroethane	<0.1	Methylene chloride	<0.1
1,1,1,2-Tetrachlorethane	<0.1	Naphthalene	<0.5
4-Isopropyltoluene	<0.1	n-Butylbenze	<0.1
Chloroform	<0.1	Propene	<0.1
Chloromethane	<0.1	Styrene	<0.1
Cyclohexane	<0.1	1,1,2,2-Tetrachloroethane	<0.1
Dibromochloromethane	<0.1	Tetrachloroethene	<0.1
1,2-Dibromoethane (EDB)	<0.1	Tetrahydrofuran	<0.1
1,2-Dichlorobenzene	<0.1	Toluene	<0.1
1,3-Dichlorobenzene	<0.1	1,2,4-Trichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.1	1,1,1-Trichloroethane	<0.1
Dichlorodifluoromethane (Freon12)	<0.1	1,1,2-Trichloroethane	<0.1
1,1-Dichloroethane	<0.1	Trichloroethene	<0.1
1,2-Dichloroethane	<0.1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.1
1,1-Dichloroethene	<0.1	Trichlorofluoromethane (Freon 11)	<0.1
cis-1,2-Dichloroethene	<0.1	1,2,4-Trimethylbenzene	<0.1
trans-1,2-Dichloroethene	<0.1	1,3,5-Trimethylbenzene	<0.1
1,2-Dichloropropane	<0.1	Vinyl chloride	<0.1
cis-1,3-Dichloropropene	<0.1	m,p-Xylene	<0.1
trans-1,3-Dichloropropene	<0.1	o-Xylene	<0.1
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.1	sec-Butylbenzene	<0.1
Isopropylbenzene	<0.1		

Approved By:

11 Almgren Drive • Agawam, MA 01001 • Operational Building & Sample Receiving
830 Silver Street • Agawam, MA 01001 • Administrative Offices, Volatile & Air Departments
1-800-789-9115 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

	CAN	CLEANER	DATE	CAN CHECK	DATE C.C.	ST.	END	OPER.	COMMENTS	
	1347	2	1/3/11	1347	1/4/11	1652	0800	KG	494/495	C07211 AL
	0658			0658						C07213 LL
	0272			0272						C07212 LL
5	0491			0491						C07214 H
	0471			0471						C07211 H
	0129									3L
	0154									3L
	5566			5566	1/4/11					C07215 LL
10	1867			1867						C07218 LL
	0668			0668						C07217 LL
	4629			4629						C07216 H
15										
	0107	2	1/5/11			1600	0900	KRL	496/497	
	0128									
	0108									
	1654									
20	5582									
	0246									
	0237									
	7645									
	0256									
25	1375									
	0186			0186	1/6/11					A38898
	5578									

	CAN	CLEANER	DATE	CAN CHECK	DATE C.C.	ST.	END	OPER.		COMMENTS
	1399	2	1/18/11			1435	1007	KG	516/517	
	1375									
	4613			4613	1/19/11					A39053
5	1400									
	1643									
	1654									
	4629									
	4638									
10	1364			1364	1/19/11					B36219
	0248									
	1645									
	1396									
15										Run all Low Level ✓
	1363	2	1/19/11	1363	1/20/11	1609	0920	KG	518/521	C07273
	1657			1657						C07274
	4620			4620						C07277
	0266			0266						C07275
20	7641			7641						C02780
	1345			1345						C07279
	0217			0217						C07278
	0261			0261						C07270
	0270			0270						C07269
25	4562			4562						C07271
	0671			0671						C07272
	5579			5579						C07276

	Can	Cleaner	Date	Can Check	Date C.C.	St	End	Oper.	Comments
	0113	1	1/31/11			14:41	8:25 2/1/11	KAL	540/542
	0158								
	0168								
5	0142								
	0122			0122	2/1/11				A39223
	0109								
	1079								
	0119								
10	0129								
	0128								
15									
	0205	2	1/31/11	Checked all cans for L.L. certification	2/1/11	1758	1030	KG	541/545	C07310
	0672									C07314
	0674									C07316
	0498									C07315
20	0714									C07318
	0263									C07321
	0247									C07312
	0715									C07313
	0668									C07322
25	4505									C07319
	4604								Removed - leak?	
	1341									C07317

	Can	Cleaner	Date	Can Check	Date CC	St.	End	oper.	comments	
	0719	1	2/4/11	0719	2/7/11	1330	2/7/11 1153	WB	548/550	A392
	0697									
	0667									
5	0140									
	0107									
	0658									
	0223									
	1012									
10	0666									
	1010									

15										
	0647	2	~~2/7~~ 2/4/11	0647 water in system	2/8	(KD)	1722 ~~1900~~	KL	549/552	B36360
	0717			re-ran on 2/7 0717	2/8					B36362
	0256			0256	2/8					B36359
	0681			0681	2/8					B36361
20	0660			0660	2/8					B36358
	0470			0470	2/8/11					LL 07327
	0138			0138	2/8					B36357
	0251			0251	2/8/11					A39302
	0265									
25	0239									
	1397									
	0703									

www.scientificbindery88yrs.com

SIGNATURE
KD

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

Work continued to Page_____

DATE

DATE

	Can	Cleaner	Date	Can check	Date CC	St	End	Oper	Comments
	4623	2	2/11/11			16:04	1042	KL	556/557
	~~5586~~								Removed-leaking
	7637								
5	1359								
	5574								
	5563								
	0242			0242	2/14/11				B36408
	1377								
10	1347								
	7634								
	0260								
	0231								
15								~~KL~~	~~558~~
	7641	2	2/14/11	7641		1615	1200	KL	558/	C07343
	4620			4620					562	C07342
	1645			1645						C07346
	1014			1014						C07341
20	0471			0471						C07344
	1346			1346						C07345
	7638			7638						C07351
	4630			4630						C07347
	0238			0238						C07348
25	0669			0669						C07352
	7650			7650						C07350
	~~1867~~									Removed - check for leak

www.scientificbindery88yrs.com

Work continued to Page _____

SIGNATURE
KL

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

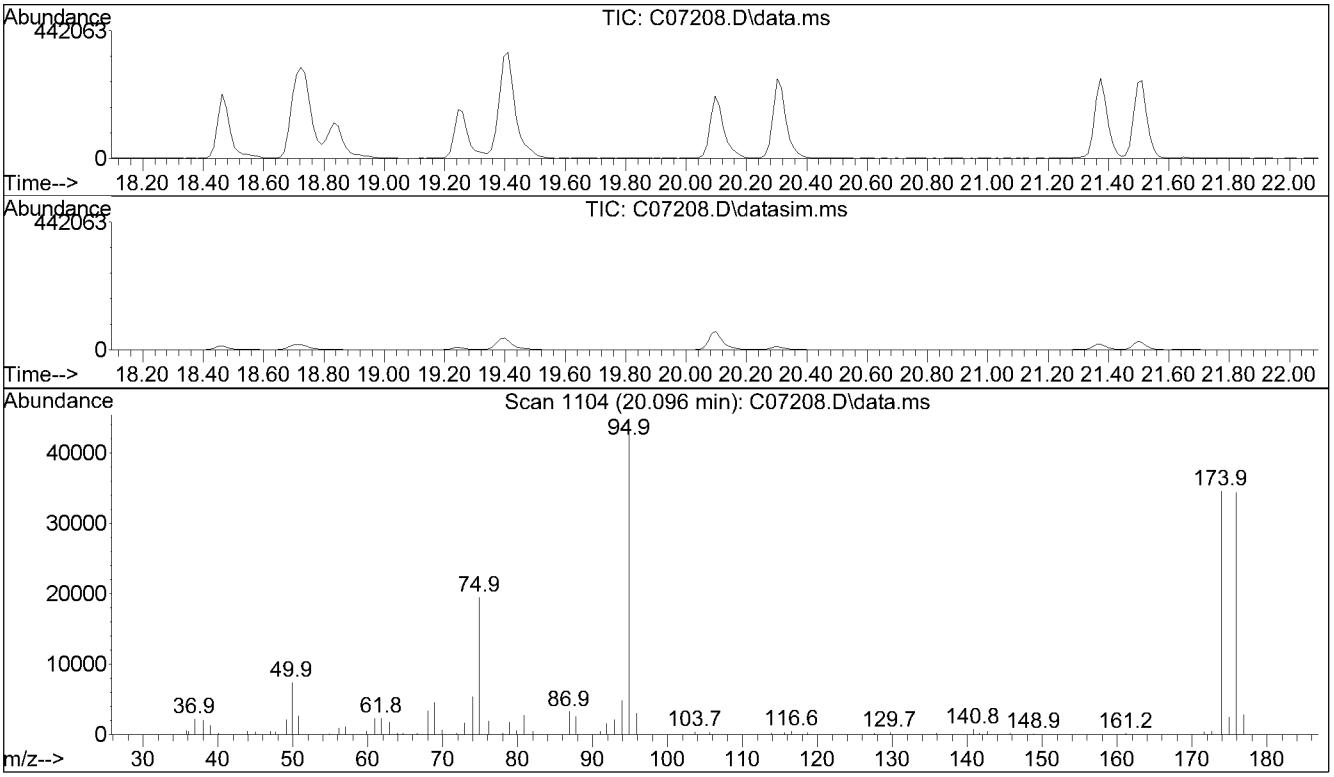
WITNESS

DATE

Data Path : G:\Jan2011\Air4\010411\
Data File : C07208.D
Acq On : 4 Jan 2011 9:19 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Method : C:\msdchem\1\METHODS\T4120810L.M
Title :
Last Update : Wed Jan 26 08:26:25 2011



Spectrum Information: Scan 1104

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	7379	PASS
75	95	30	60	45.0	19512	PASS
95	95	100	100	100.0	43336	PASS
96	95	5	9	7.1	3075	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.8	34592	PASS
175	174	5	9	7.2	2505	PASS
176	174	95	101	99.4	34392	PASS
177	176	5	9	8.2	2819	PASS

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\010411\
Data File : C07208.D
Acq On : 4 Jan 2011 9:19 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 04 10:44:02 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Thu Dec 09 07:43:37 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.133	128	594535	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.336	114	2918249	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.880	54	396207	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.104	95	1275129	10.57	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 105.70%#			
Target Compounds						Qvalue
2) PROPENE	5.102	42	381911	1.48	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.179	85	1975507	1.91	PPBv #	100
4) CHLOROMETHANE	5.361	50	932807	1.53	PPBv #	100
5) FREON 114	5.468	85	2892730	1.90	PPBv #	100
6) VINYL CHLORIDE	5.602	62	922014	1.69	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.596	62	993526	1.80	PPBv #	100
8) 1,3-BUTADIENE	5.752	54	670172	1.56	PPBv #	100
9) BROMOMETHANE	6.050	94	960978	1.62	PPBv #	100
10) CHLOROETHANE	6.224	64	455259	1.51	PPBv #	100
11) ACETONE	6.831	58	400374	1.43	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.034	101	3059481	1.85	PPBv #	100
13) ETHANOL	6.317	45	204380	1.41	PPBv #	100
14) ACRYLONITRILE	5.752	53	446864	1.71	PPBv #	100
15) 1,1-DICHLOROETHENE	7.700	96	1021824	1.60	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.696	96	1173527	1.71	PPBv #	100
17) METHYLENE CHLORIDE	7.813	84	773494	1.76	PPBv #	100
18) FREON 113	8.090	101	1374686	1.78	PPBv #	100
19) CARBON DISULFIDE	8.164	76	1529401	1.64	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.815	96	493452	1.57	PPBv #	100
21) 1,1-DICHLOROETHANE	9.035	63	857509	1.69	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.027	63	945344	1.81	PPBv #	100
23) MTBE	9.086	73	994411	1.84	PPBv #	100
24) IPA	7.063	45	918595	1.45	PPBv #	100
25) 2-BUTANONE (MEK)	9.440	72	275336	1.69	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.947	96	548604	1.72	PPBv #	100
27) HEXANE	10.174	57	1028729	1.97	PPBv #	100
28) ETHYL ACETATE	10.160	61	219578	1.81	PPBv #	100
29) CHLOROFORM	10.270	83	976251	1.69	PPBv #	100
30) TETRAHYDROFURAN	10.731	71	218881	1.91	PPBv #	100
31) 1,2-DICHLOROETHANE	11.110	62	522678	1.75	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.411	97	886792	1.70	PPBv #	100
33) BENZENE	11.947	78	1843378	1.85	PPBv	100
34) CARBON TETRACHLORIDE	12.122	119	962505	1.91	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\010411\
Data File : C07208.D
Acq On : 4 Jan 2011 9:19 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 04 10:44:02 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Thu Dec 09 07:43:37 2010
Response via : Initial Calibration

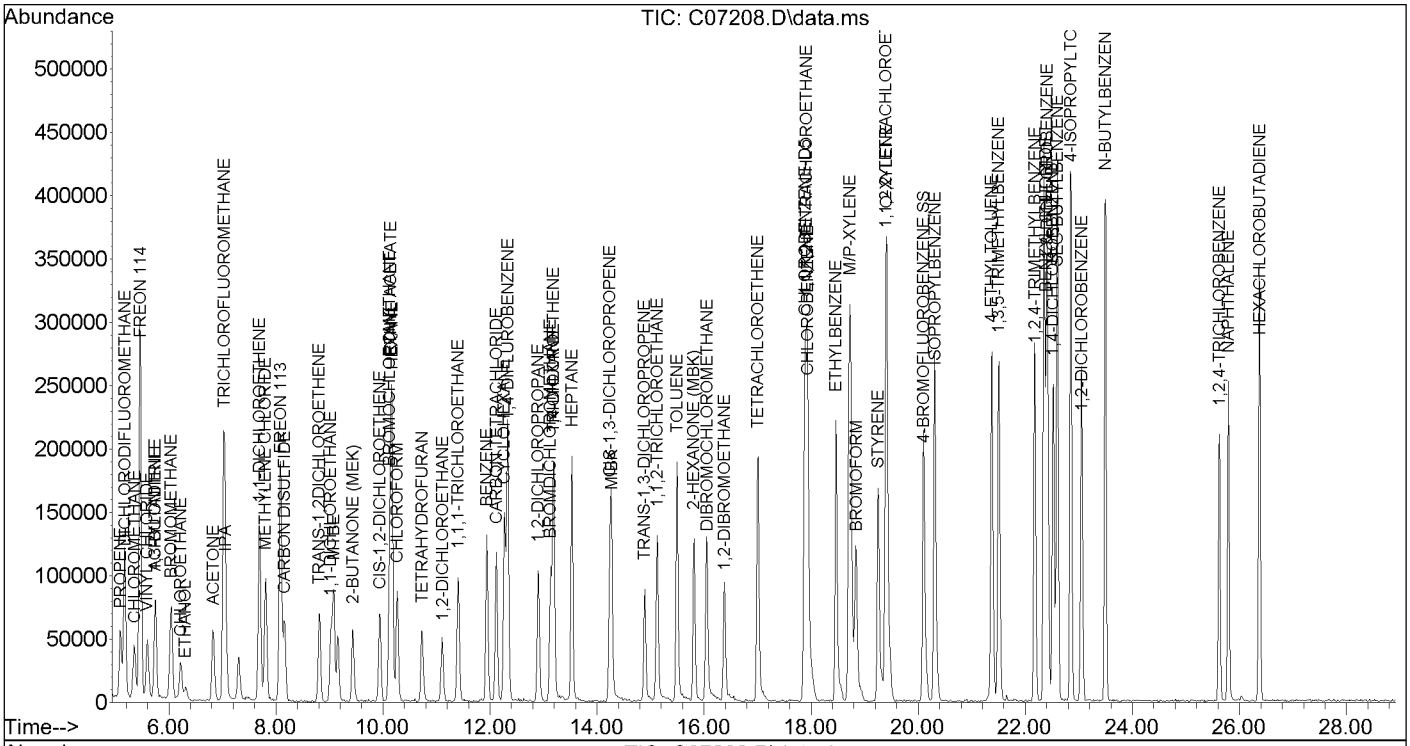
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35] CARBON TETRACHLORIDE (...	12.122	119	1115508	1.97	PPBv #	100
36) CYCLOHEXANE	12.275	56	962939	2.01	PPBv #	100
38) 1,2-DICHLOROPROPANE	12.907	63	615119	1.80	PPBv #	100
39) BROMDICHLOROMETHANE	13.138	83	961409	1.73	PPBv #	100
40) TRICHLOROETHENE	13.192	95	792544	2.01	PPBv #	100
41] TRICHLOROETHENE (SIM)	13.187	95	898125	2.25	PPBv #	100
42) 1,4-DIOXANE	13.191	88	230091	1.74	PPBv #	100
43) HEPTANE	13.536	57	584772	1.92	PPBv #	100
44) MIBK	14.272	43	1451878	1.96	PPBv #	100
45) CIS-1,3-DICHLOROPROPENE	14.244	75	834966	1.88	PPBv #	100
46) TRANS-1,3-DICHLOROPROPENE	14.894	75	692111	1.96	PPBv #	100
47) 1,1,2-TRICHLOROETHANE	15.128	83	575034	1.72	PPBv #	100
48) TOLUENE	15.498	91	2235110	2.05	PPBv #	100
49) 2-HEXANONE (MBK)	15.814	58	741958	2.17	PPBv #	100
50) DIBROMOCHLOROMETHANE	16.055	129	1107957	1.81	PPBv #	100
51) 1,2-DIBROMOETHANE	16.383	107	950676	1.73	PPBv #	100
52) TETRACHLOROETHENE	17.009	166	873090	1.71	PPBv #	100
53] TETRACHLOROETHENE (SIM)	17.009	166	1247108	2.21	PPBv #	100
55) CHLOROBENZENE	17.941	112	1948965	1.75	PPBv #	100
56) 1,1,1,2-TETRACHLOROETHANE	17.914	135	257570	1.81	PPBv #	100
57) ETHYLBENZENE	18.469	91	2697949	1.99	PPBv #	100
58) M/P-XYLENE	18.729	106	2782570	4.14	PPBv #	100
59) BROMOFORM	18.843	173	1056563	1.99	PPBv #	100
60) STYRENE	19.257	104	1691457	2.05	PPBv #	100
61) O-XYLENE	19.416	106	1363823	2.02	PPBv #	100
62) 1,1,2,2-TETRACHLOROETHANE	19.401	83	1905139	2.09	PPBv #	100
64) ISOPROPYLBENZENE	20.313	105	3359768	2.16	PPBv #	100
65) 4-ETHYLTOLUENE	21.379	105	3200236	2.11	PPBv #	100
66) 1,3,5-TRIMETHYLBENZENE	21.510	105	2777188	2.24	PPBv #	100
67) 1,2,4-TRIMETHYLBENZENE	22.182	105	2518633	1.82	PPBv #	100
68) 1,3-DICHLOROBENZENE	22.419	146	2142839	2.15	PPBv #	100
69) BENZYL CHLORIDE	22.393	91	2109893	2.26	PPBv #	100
70) 1,4-DICHLOROBENZENE	22.526	146	2003249	2.16	PPBv #	100
71) SEC-BUTYLBENZENE	22.602	105	4581107	2.25	PPBv #	100
72) 4-ISOPROPYLTOLUENE	22.855	119	3935459	2.39	PPBv #	100
73) 1,2-DICHLOROBENZENE	23.056	146	1847279	2.26	PPBv #	100
74) N-BUTYLBENZENE	23.500	91	3334374	2.52	PPBv #	100
75) 1,2,4-TRICHLOROBENZENE	25.630	180	938684	3.00	PPBv #	100
76) NAPHTHALENE	25.799	128	2944051	3.43	PPBv	100
77) HEXACHLOROBUTADIENE	26.381	225	741972	2.60	PPBv	100

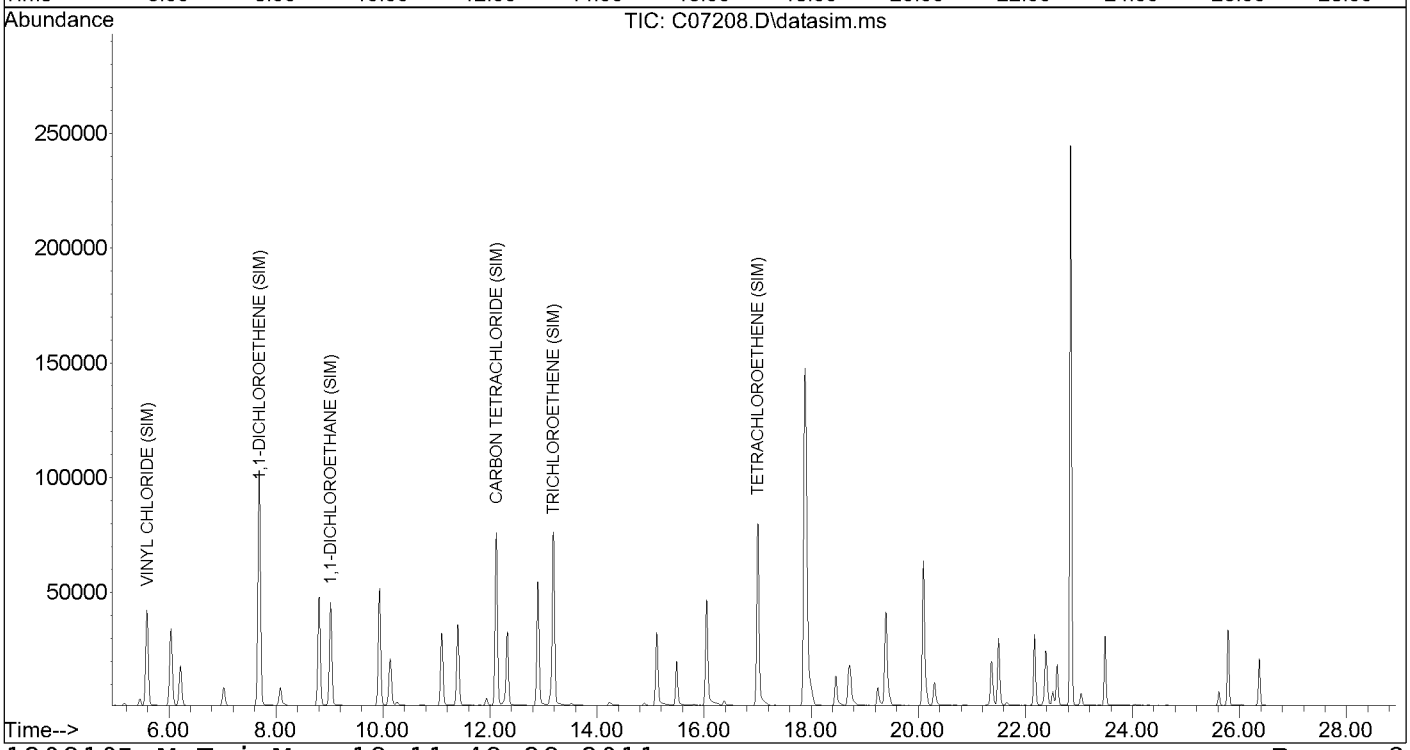
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\010411\
Data File : C07208.D
Acq On : 4 Jan 2011 9:19 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 04 10:44:02 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Thu Dec 09 07:43:37 2010
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\010411\
Data File : C07209.D
Acq On : 4 Jan 2011 10:08 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 18 11:48:48 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Thu Dec 09 07:43:37 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.133	128	617066	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.334	114	3101323	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.881	54	431502	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.103	95	1311542	9.99	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 99.90%#			
Target Compounds						Qvalue
2) PROPENE	5.097	42	448140	1.67	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.177	85	2265658	2.11	PPBv #	100
4) CHLOROMETHANE	5.358	50	920015	1.45	PPBv #	100
5) FREON 114	5.466	85	2732920	1.73	PPBv #	100
6) VINYL CHLORIDE	5.601	62	942669	1.66	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.594	62	1021712	1.78	PPBv #	100
8) 1,3-BUTADIENE	5.749	54	700685	1.57	PPBv #	100
9) BROMOMETHANE	6.045	94	955247	1.55	PPBv #	100
10) CHLOROETHANE	6.224	64	501782	1.60	PPBv #	100
11) ACETONE	6.832	58	491929	1.69	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.033	101	2488669	1.45	PPBv #	100
13) ETHANOL	6.324	45	259776m	1.72	PPBv	
14) ACRYLONITRILE	5.751	53	473778	1.74	PPBv #	100
15) 1,1-DICHLOROETHENE	7.698	96	966249	1.46	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.696	96	1136757	1.59	PPBv #	100
17) METHYLENE CHLORIDE	7.814	84	875947	1.95	PPBv #	100
18) FREON 113	8.091	101	1274314	1.59	PPBv #	100
19) CARBON DISULFIDE	8.166	76	1639799	1.69	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.817	96	546681	1.68	PPBv #	100
21) 1,1-DICHLOROETHANE	9.033	63	938231	1.78	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.026	63	1023675	1.89	PPBv #	100
23) MTBE	9.081	73	1128114	2.01	PPBv #	100
24) IPA	7.065	45	1293033	1.97	PPBv #	100
25) 2-BUTANONE (MEK)	9.440	72	339878	2.01	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.945	96	627210	1.89	PPBv #	100
27) HEXANE	10.174	57	1037150	1.91	PPBv #	100
28) ETHYL ACETATE	10.152	61	212216	1.68	PPBv #	100
29) CHLOROFORM	10.270	83	1013638	1.69	PPBv #	100
30) TETRAHYDROFURAN	10.729	71	263878	2.22	PPBv #	100
31) 1,2-DICHLOROETHANE	11.109	62	575281	1.86	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.411	97	906473	1.67	PPBv #	100
33) BENZENE	11.947	78	1899004	1.83	PPBv	100
34) CARBON TETRACHLORIDE	12.122	119	937325	1.79	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\010411\
Data File : C07209.D
Acq On : 4 Jan 2011 10:08 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 18 11:48:48 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Thu Dec 09 07:43:37 2010
Response via : Initial Calibration

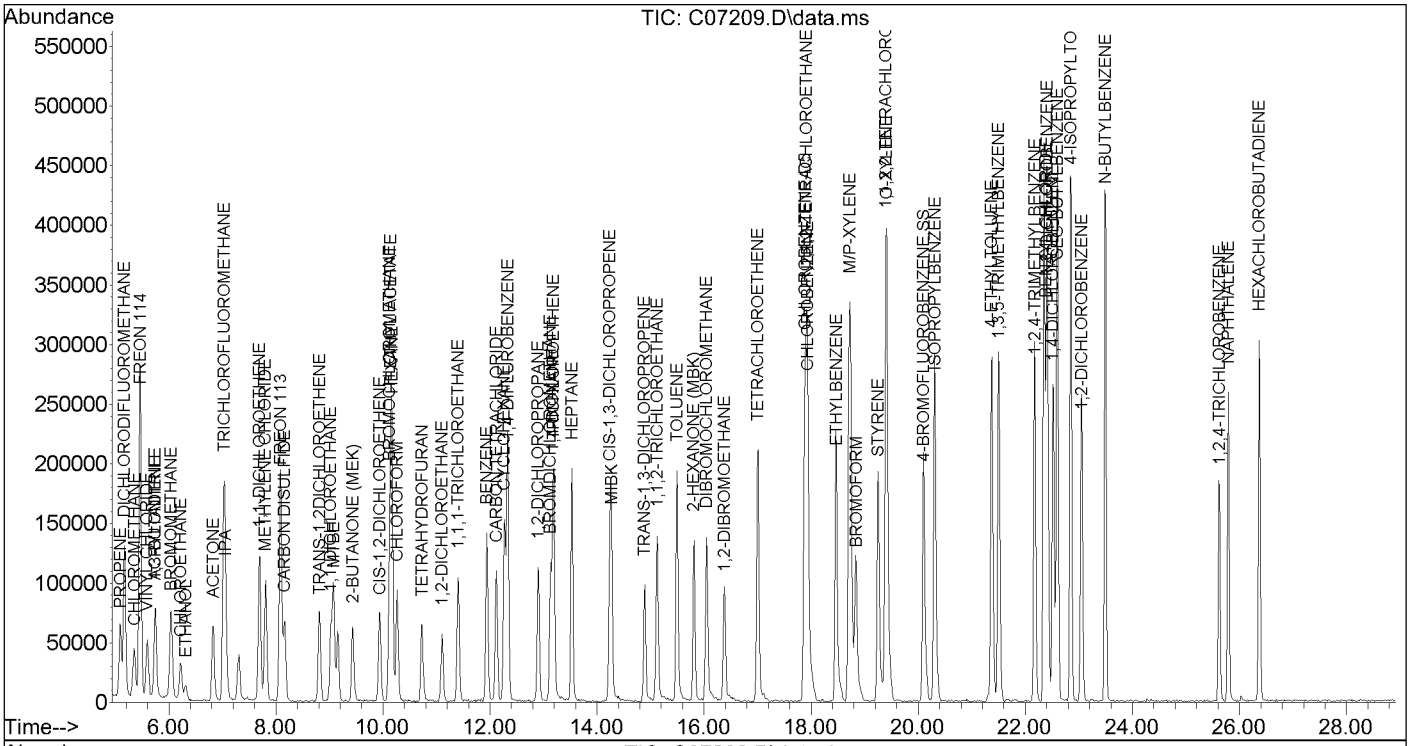
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35] CARBON TETRACHLORIDE (...	12.121	119	1122104	1.91	PPBv #	100
36) CYCLOHEXANE	12.276	56	1059238	2.14	PPBv #	100
38) 1,2-DICHLOROPROPANE	12.905	63	680041	1.87	PPBv #	100
39) BROMDICHLOROMETHANE	13.135	83	1042584	1.77	PPBv #	100
40) TRICHLOROETHENE	13.190	95	830120	1.98	PPBv #	100
41] TRICHLOROETHENE (SIM)	13.187	95	961014	2.27	PPBv #	100
42) 1,4-DIOXANE	13.183	88	291861	2.07	PPBv #	100
43) HEPTANE	13.534	57	661670	2.04	PPBv #	100
44) MIBK	14.270	43	1537268	1.95	PPBv #	100
45) CIS-1,3-DICHLOROPROPENE	14.240	75	950685	2.02	PPBv #	100
46) TRANS-1,3-DICHLOROPROPENE	14.894	75	746346	1.99	PPBv #	100
47) 1,1,2-TRICHLOROETHANE	15.126	83	618653	1.74	PPBv #	100
48) TOLUENE	15.498	91	2402656	2.08	PPBv #	100
49) 2-HEXANONE (MBK)	15.815	58	768358	2.12	PPBv #	100
50) DIBROMOCHLOROMETHANE	16.052	129	1223101	1.88	PPBv #	100
51) 1,2-DIBROMOETHANE	16.385	107	1203259	2.06	PPBv #	100
52) TETRACHLOROETHENE	17.009	166	1013862	1.87	PPBv #	100
53] TETRACHLOROETHENE (SIM)	17.009	166	1367968	2.28	PPBv #	100
55) CHLOROBENZENE	17.942	112	2125174	1.75	PPBv #	100
56) 1,1,1,2-TETRACHLOROETHANE	17.914	135	267320	1.73	PPBv #	100
57) ETHYLBENZENE	18.470	91	3004943	2.03	PPBv #	100
58) M/P-XYLENE	18.726	106	3003595	4.10	PPBv #	100
59) BROMOFORM	18.841	173	995919	1.74	PPBv #	100
60) STYRENE	19.257	104	1984368	2.21	PPBv #	100
61) O-XYLENE	19.415	106	1542561	2.09	PPBv #	100
62) 1,1,2,2-TETRACHLOROETHANE	19.398	83	2052122	2.06	PPBv #	100
64) ISOPROPYLBENZENE	20.312	105	3640561	2.15	PPBv #	100
65) 4-ETHYLTOLUENE	21.377	105	3538077	2.15	PPBv #	100
66) 1,3,5-TRIMETHYLBENZENE	21.508	105	3014820	2.23	PPBv #	100
67) 1,2,4-TRIMETHYLBENZENE	22.178	105	2805051	1.86	PPBv #	100
68) 1,3-DICHLOROBENZENE	22.419	146	2280236	2.10	PPBv #	100
69) BENZYL CHLORIDE	22.392	91	2186794	2.15	PPBv #	100
70) 1,4-DICHLOROBENZENE	22.526	146	2172958	2.15	PPBv #	100
71) SEC-BUTYLBENZENE	22.602	105	5188694	2.34	PPBv #	100
72) 4-ISOPROPYLTOLUENE	22.854	119	4227906	2.36	PPBv #	100
73) 1,2-DICHLOROBENZENE	23.057	146	1903450	2.14	PPBv #	100
74) N-BUTYLBENZENE	23.500	91	3573765	2.48	PPBv #	100
75) 1,2,4-TRICHLOROBENZENE	25.627	180	862393	2.53	PPBv #	100
76) NAPHTHALENE	25.798	128	3061232	3.27	PPBv	100
77) HEXACHLOROBUTADIENE	26.378	225	676760	2.18	PPBv	100

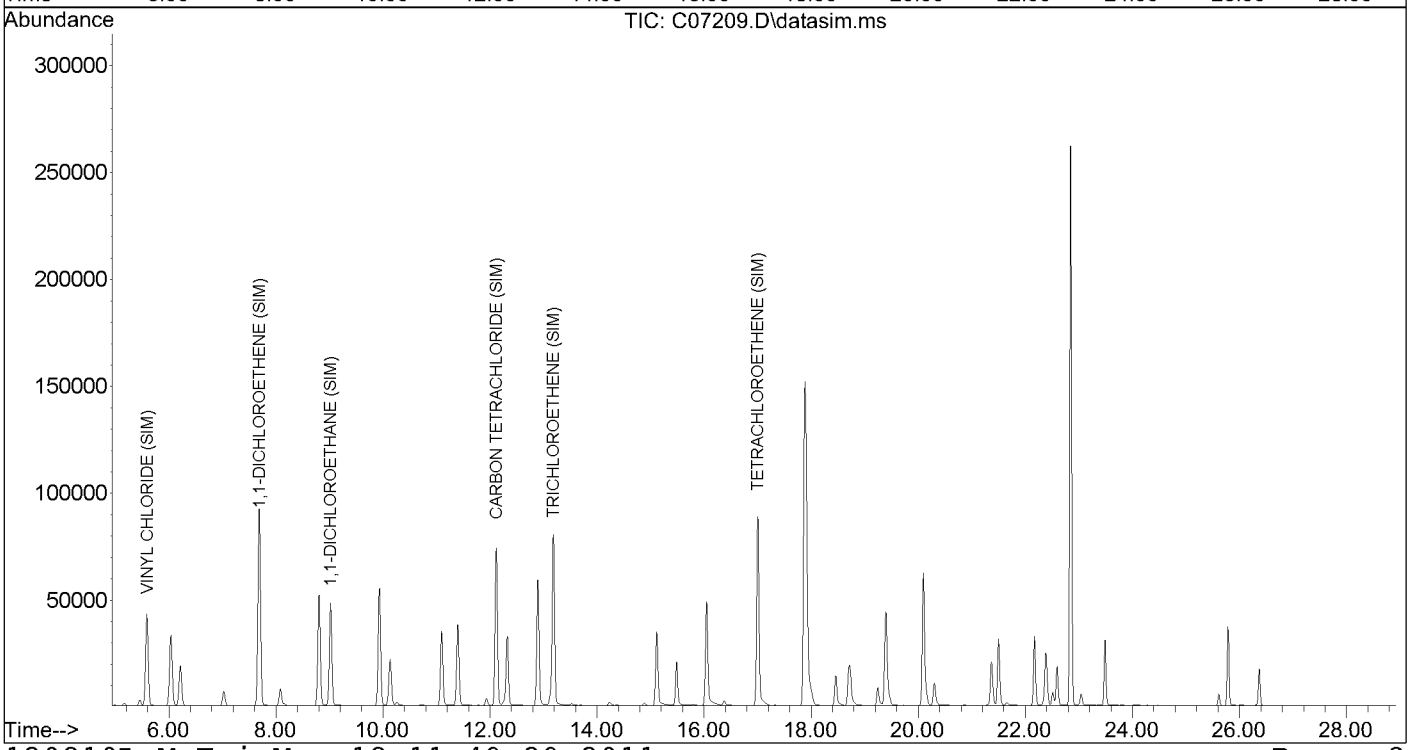
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\010411\
Data File : C07209.D
Acq On : 4 Jan 2011 10:08 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 18 11:48:48 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Thu Dec 09 07:43:37 2010
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\010411\
Data File : C07215.D
Acq On : 4 Jan 2011 4:30 pm
Operator : KRL
Sample : can check 5566 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 13:13:39 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Thu Dec 09 08:07:55 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.139	128	423606	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.338	114	1954171	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.879	54	208688	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.107	95	607032	9.56	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 95.60%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) VINYL CHLORIDE (SIM)	0.000		0	N.D.		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	0.000		0	N.D.		
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16) 1,1-DICHLOROETHENE (SIM)	0.000		0	N.D.		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22) 1,1-DICHLOROETHANE (SIM)	0.000		0	N.D.		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	0.000		0	N.D.		
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\010411\
Data File : C07215.D
Acq On : 4 Jan 2011 4:30 pm
Operator : KRL
Sample : can check 5566 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 13:13:39 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Thu Dec 09 08:07:55 2010
Response via : Initial Calibration

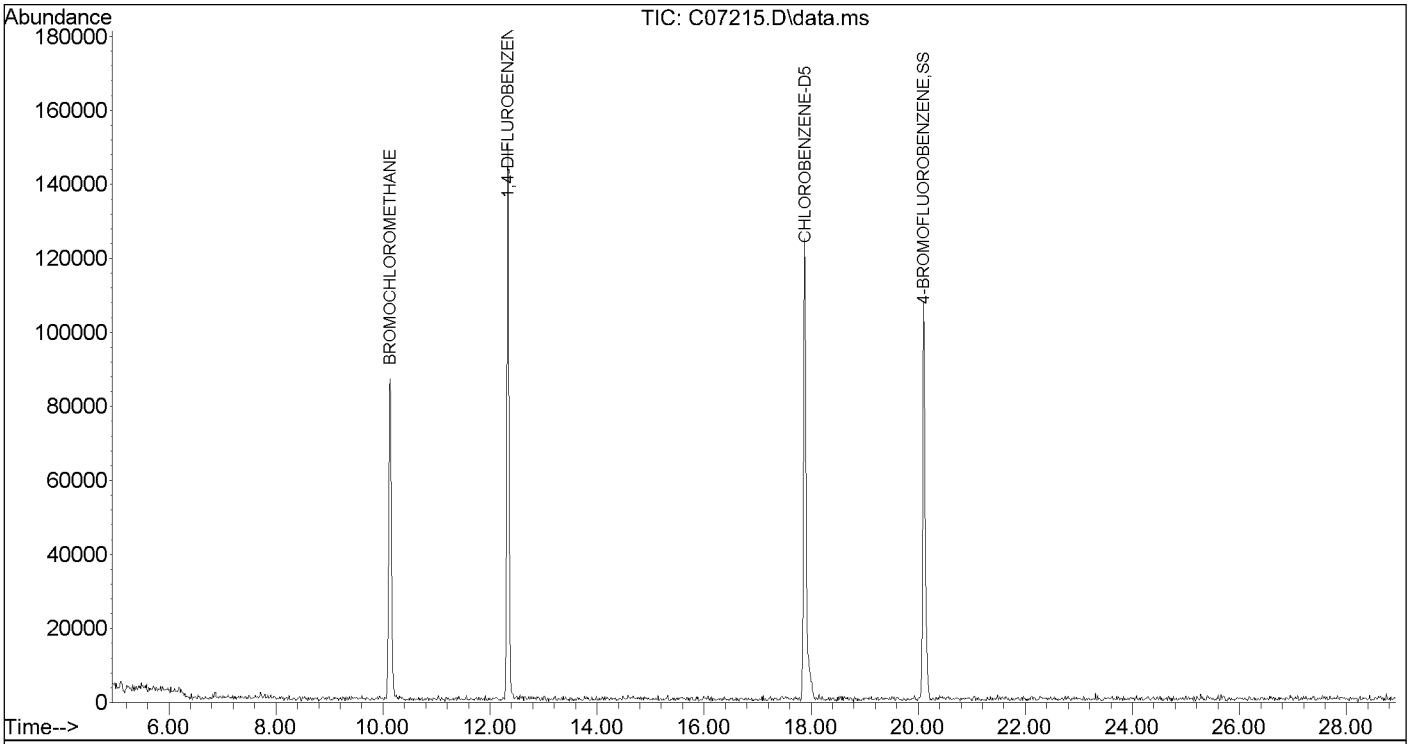
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	0.000		0	N.D.		
36) CYCLOHEXANE	0.000		0	N.D.	d	
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.		
39) BROMDICHLOROMETHANE	0.000		0	N.D.		
40) TRICHLOROETHENE	0.000		0	N.D.		
41) TRICHLOROETHENE (SIM)	0.000		0	N.D.		
42) 1,4-DIOXANE	0.000		0	N.D.		
43) HEPTANE	0.000		0	N.D.		
44) MIBK	0.000		0	N.D.		
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
48) TOLUENE	0.000		0	N.D.		
49) 2-HEXANONE (MBK)	0.000		0	N.D.		
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.		
51) 1,2-DIBROMOETHANE	0.000		0	N.D.		
52) TETRACHLOROETHENE	0.000		0	N.D.		
53) TETRACHLOROETHENE (SIM)	0.000		0	N.D.		
55) CHLOROBENZENE	0.000		0	N.D.		
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
57) ETHYLBENZENE	0.000		0	N.D.		
58) M/P-XYLENE	0.000		0	N.D.		
59) BROMOFORM	0.000		0	N.D.		
60) STYRENE	0.000		0	N.D.		
61) O-XYLENE	0.000		0	N.D.		
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.		
64) ISOPROPYLBENZENE	0.000		0	N.D.		
65) 4-ETHYLTOLUENE	0.000		0	N.D.		
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.		
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.		
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.		
69) BENZYL CHLORIDE	0.000		0	N.D.		
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.		
71) SEC-BUTYLBENZENE	0.000		0	N.D.		
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.		
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.		
74) N-BUTYLBENZENE	0.000		0	N.D.		
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.		
76) NAPHTHALENE	0.000		0	N.D.		
77) HEXACHLOROBUTADIENE	0.000		0	N.D.		

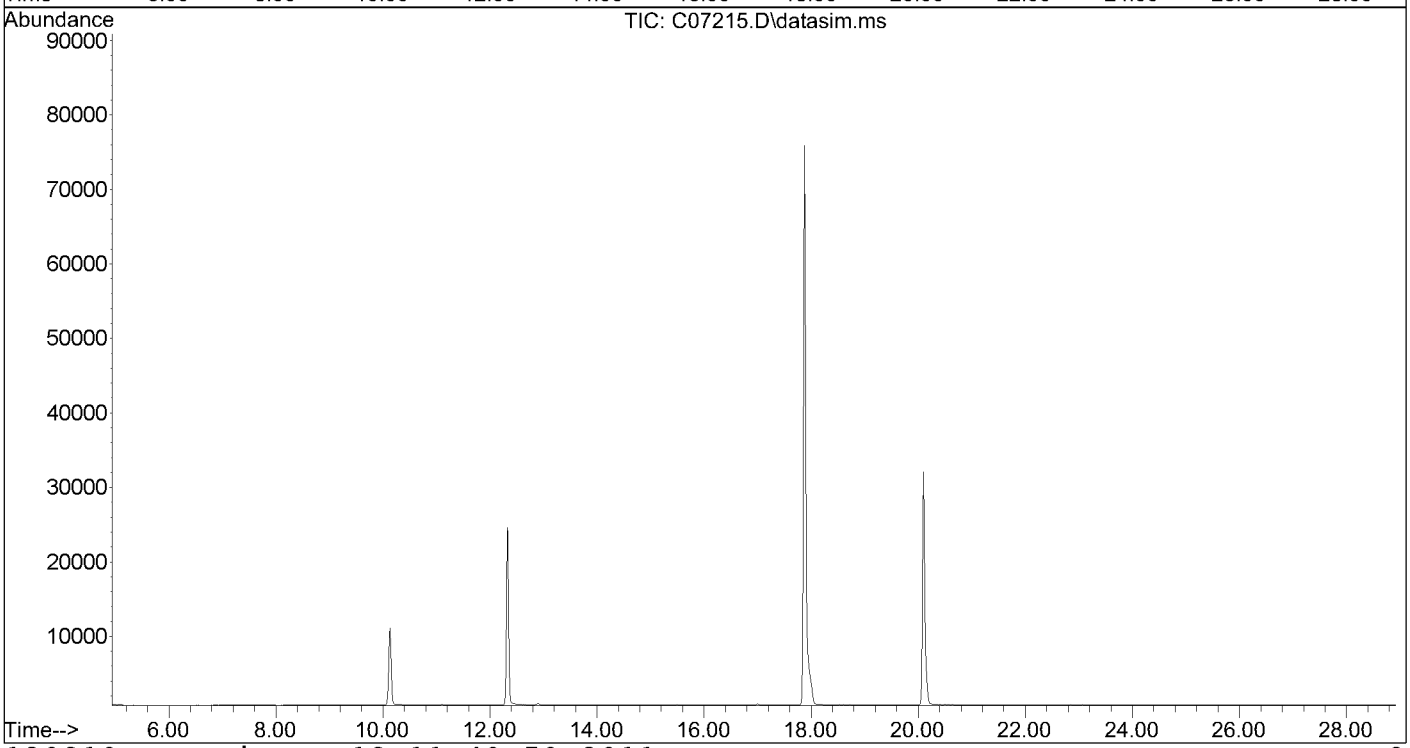
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\010411\
Data File : C07215.D
Acq On : 4 Jan 2011 4:30 pm
Operator : KRL
Sample : can check 5566 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 13:13:39 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Thu Dec 09 08:07:55 2010
Response via : Initial Calibration

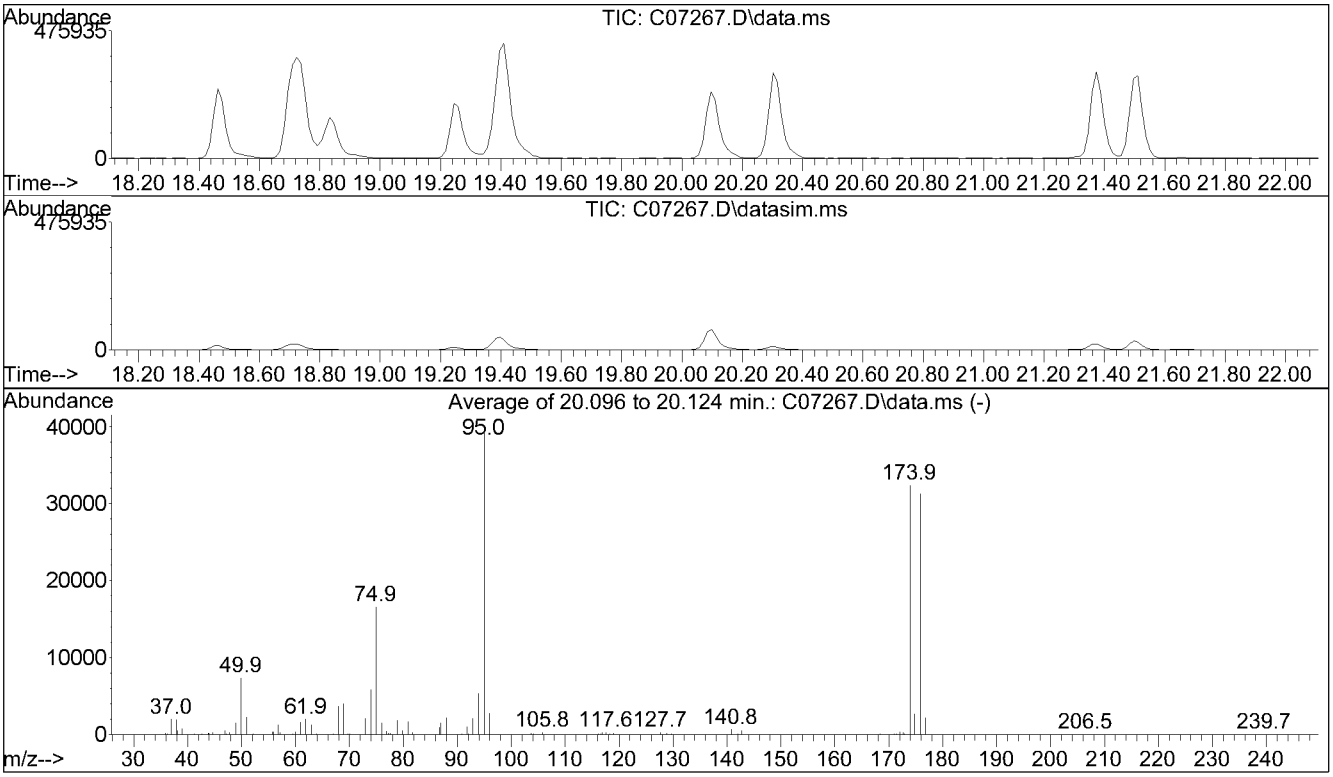




Data Path : G:\Jan2011\Air4\012011\
Data File : C07267.D
Acq On : 20 Jan 2011 8:18 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Method : C:\msdchem\1\METHODS\T4120810L.M
Title :
Last Update : Wed Jan 26 08:26:25 2011



AutoFind: Scans 1104, 1105, 1106; Background Corrected with Scan 1097

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	7348	PASS
75	95	30	60	41.9	16577	PASS
95	95	100	100	100.0	39587	PASS
96	95	5	9	6.9	2747	PASS
173	174	0.00	2	0.3	88	PASS
174	95	50	100	81.8	32387	PASS
175	174	5	9	8.2	2667	PASS
176	174	95	101	96.6	31288	PASS
177	176	5	9	7.1	2213	PASS

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07267.D
Acq On : 20 Jan 2011 8:18 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 20 09:43:32 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.135	128	694639	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.334	114	3480291	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.882	54	465762	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.104	95	1583212	11.17	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 111.70%#			
Target Compounds						Qvalue
2) PROPENE	5.102	42	476685	1.58	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.179	85	2227348	1.84	PPBv #	100
4) CHLOROMETHANE	5.363	50	991104	1.39	PPBv #	100
5) FREON 114	5.469	85	3055348	1.72	PPBv #	100
6) VINYL CHLORIDE	5.603	62	951094	1.49	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.597	62	1047919	1.62	PPBv #	100
8) 1,3-BUTADIENE	5.753	54	674397	1.34	PPBv #	100
9) BROMOMETHANE	6.047	94	963036	1.39	PPBv #	100
10) CHLOROETHANE	6.227	64	489481	1.39	PPBv #	100
11) ACETONE	6.832	58	526764	1.61	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.037	101	2643963	1.37	PPBv #	100
13) ETHANOL	6.324	45	214476	1.26	PPBv #	100
14) ACRYLONITRILE	5.752	53	456356	1.49	PPBv #	100
15) 1,1-DICHLOROETHENE	7.703	96	940116	1.26	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.699	96	1129354	1.40	PPBv #	100
17) METHYLENE CHLORIDE	7.814	84	832235	1.59	PPBv #	100
18) FREON 113	8.093	101	1571798	1.74	PPBv #	100
19) CARBON DISULFIDE	8.168	76	1952644	1.79	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.820	96	628960	1.72	PPBv #	100
21) 1,1-DICHLOROETHANE	9.035	63	1046838	1.76	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.028	63	1149556	1.89	PPBv #	100
23) MTBE	9.085	73	1251726	1.98	PPBv #	100
24) IPA	7.066	45	1110838	1.50	PPBv #	100
25) 2-BUTANONE (MEK)	9.441	72	323447	1.70	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.945	96	684136	1.84	PPBv #	100
27) HEXANE	10.176	57	1181500	1.94	PPBv #	100
28) ETHYL ACETATE	10.159	61	248415	1.75	PPBv #	100
29) CHLOROFORM	10.270	83	1223490	1.81	PPBv #	100
30) TETRAHYDROFURAN	10.733	71	302060	2.26	PPBv #	100
31) 1,2-DICHLOROETHANE	11.108	62	632528	1.81	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.411	97	1053375	1.72	PPBv #	100
33) BENZENE	11.947	78	2114658	1.81	PPBv	100
34) CARBON TETRACHLORIDE	12.123	119	1131616	1.92	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07267.D
Acq On : 20 Jan 2011 8:18 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 20 09:43:32 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

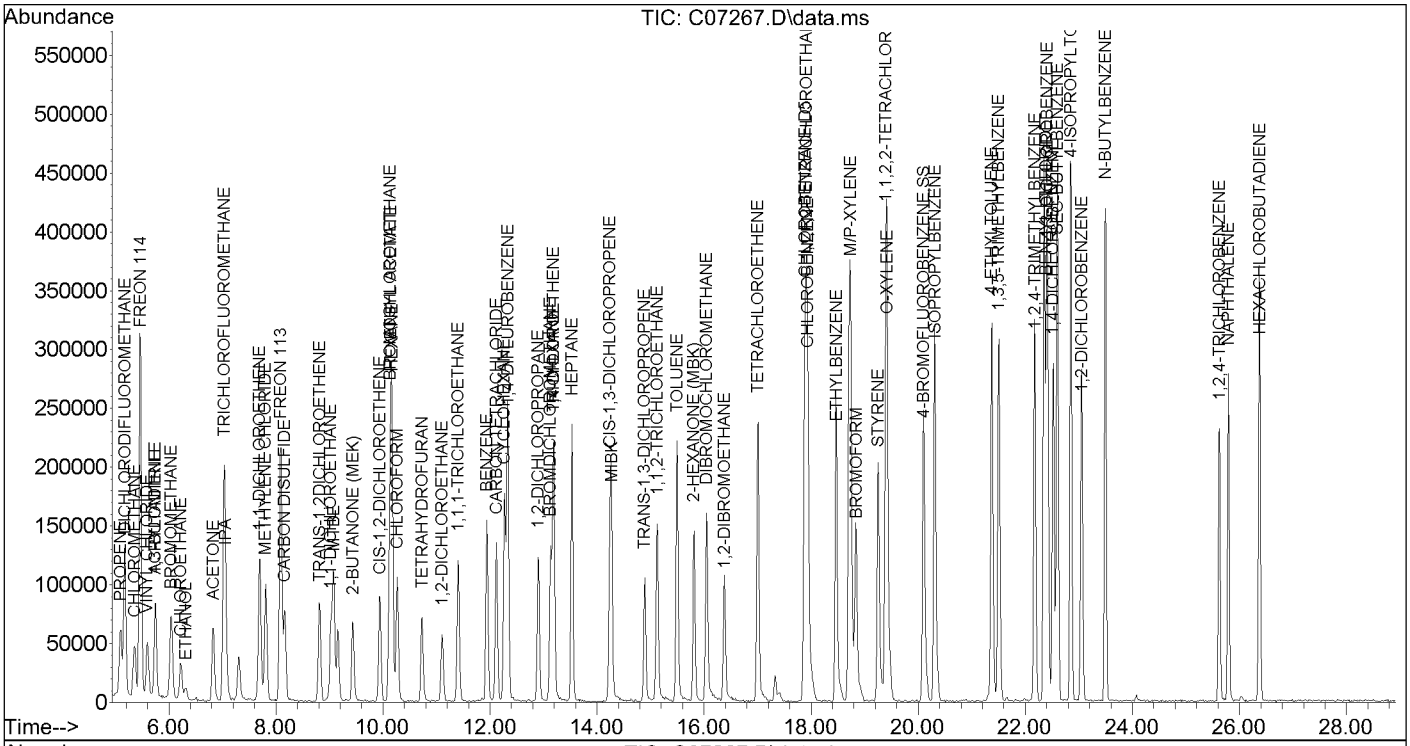
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.122	119	1289837	1.95	PPBv	#	100
36) CYCLOHEXANE	12.275	56	1214281	2.17	PPBv	#	100
38) 1,2-DICHLOROPROPANE	12.907	63	759939	1.87	PPBv	#	100
39) BROMDICHLOROMETHANE	13.138	83	1232806	1.87	PPBv	#	100
40) TRICHLOROETHENE	13.192	95	905227	1.92	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.188	95	1064115	2.24	PPBv	#	100
42) 1,4-DIOXANE	13.185	88	296027	1.87	PPBv	#	100
43) HEPTANE	13.536	57	748945	2.06	PPBv	#	100
44) MIBK	14.271	43	1693554	1.92	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.243	75	1031463	1.95	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.896	75	784601	1.86	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.128	83	735444	1.84	PPBv	#	100
48) TOLUENE	15.499	91	2688970	2.07	PPBv	#	100
49) 2-HEXANONE (MBK)	15.815	58	870883	2.14	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.052	129	1374875	1.89	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.383	107	1061129	1.62	PPBv	#	100
52) TETRACHLOROETHENE	17.009	166	1094489	1.80	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.010	166	1440445	2.14	PPBv	#	100
55) CHLOROBENZENE	17.943	112	2281463	1.74	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.913	135	307060	1.84	PPBv	#	100
57) ETHYLBENZENE	18.470	91	3193178	2.00	PPBv	#	100
58) M/P-XYLENE	18.732	106	3219476	4.07	PPBv	#	100
59) BROMOFORM	18.842	173	1219700	1.96	PPBv	#	100
60) STYRENE	19.258	104	1976539	2.04	PPBv	#	100
61) O-XYLENE	19.417	106	1633591	2.06	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.400	83	2116613	1.97	PPBv	#	100
64) ISOPROPYLBENZENE	20.312	105	3849903	2.11	PPBv	#	100
65) 4-ETHYLTOLUENE	21.379	105	3830650	2.15	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.509	105	3180490	2.18	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.181	105	3028199	1.86	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.419	146	2381129	2.03	PPBv	#	100
69) BENZYL CHLORIDE	22.393	91	2417944	2.20	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.527	146	2269809	2.08	PPBv	#	100
71) SEC-BUTYLBENZENE	22.604	105	5154265	2.15	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.854	119	4288368	2.22	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.057	146	2023939	2.10	PPBv	#	100
74) N-BUTYLBENZENE	23.501	91	3556798	2.29	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.630	180	1081331	2.94	PPBv	#	100
76) NAPHTHALENE	25.800	128	3226235	3.20	PPBv		100
77) HEXACHLOROBUTADIENE	26.380	225	807627	2.41	PPBv		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07267.D
Acq On : 20 Jan 2011 8:18 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 20 09:43:32 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07268.D
Acq On : 20 Jan 2011 9:08 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 20 10:47:35 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.135	128	683699	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.337	114	3141354	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.885	54	415587	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.105	95	1330555	10.52	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 105.20%#			
Target Compounds						Qvalue
2) PROPENE	5.097	42	585336	1.97	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.178	85	2454462	2.06	PPBv #	100
4) CHLOROMETHANE	5.360	50	942784	1.34	PPBv #	100
5) FREON 114	5.467	85	3309569	1.89	PPBv #	100
6) VINYL CHLORIDE	5.602	62	1082069	1.72	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.596	62	1166360	1.84	PPBv #	100
8) 1,3-BUTADIENE	5.753	54	815345	1.65	PPBv #	100
9) BROMOMETHANE	6.049	94	1216176	1.78	PPBv #	100
10) CHLOROETHANE	6.227	64	577603	1.67	PPBv #	100
11) ACETONE	6.834	58	502798	1.56	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.035	101	3222043	1.69	PPBv #	100
13) ETHANOL	6.324	45	260215	1.56	PPBv #	100
14) ACRYLONITRILE	5.757	53	578730	1.92	PPBv #	100
15) 1,1-DICHLOROETHENE	7.702	96	1162944	1.58	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.697	96	1369845	1.73	PPBv #	100
17) METHYLENE CHLORIDE	7.815	84	975152	1.96	PPBv #	100
18) FREON 113	8.092	101	1658102	1.86	PPBv #	100
19) CARBON DISULFIDE	8.166	76	1988390	1.85	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.817	96	637974	1.77	PPBv #	100
21) 1,1-DICHLOROETHANE	9.033	63	1104113	1.89	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.028	63	1177977	1.97	PPBv #	100
23) MTBE	9.085	73	1322645	2.12	PPBv #	100
24) IPA	7.067	45	1407601	1.94	PPBv #	100
25) 2-BUTANONE (MEK)	9.444	72	357899	1.91	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.949	96	667596	1.82	PPBv #	100
27) HEXANE	10.175	57	1152048	1.92	PPBv #	100
28) ETHYL ACETATE	10.161	61	270364	1.94	PPBv #	100
29) CHLOROFORM	10.272	83	1146747	1.72	PPBv #	100
30) TETRAHYDROFURAN	10.734	71	267543	2.03	PPBv #	100
31) 1,2-DICHLOROETHANE	11.109	62	627596	1.83	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.410	97	1055909	1.76	PPBv #	100
33) BENZENE	11.948	78	2036488	1.77	PPBv	100
34) CARBON TETRACHLORIDE	12.124	119	1077581	1.86	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07268.D
Acq On : 20 Jan 2011 9:08 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 20 10:47:35 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

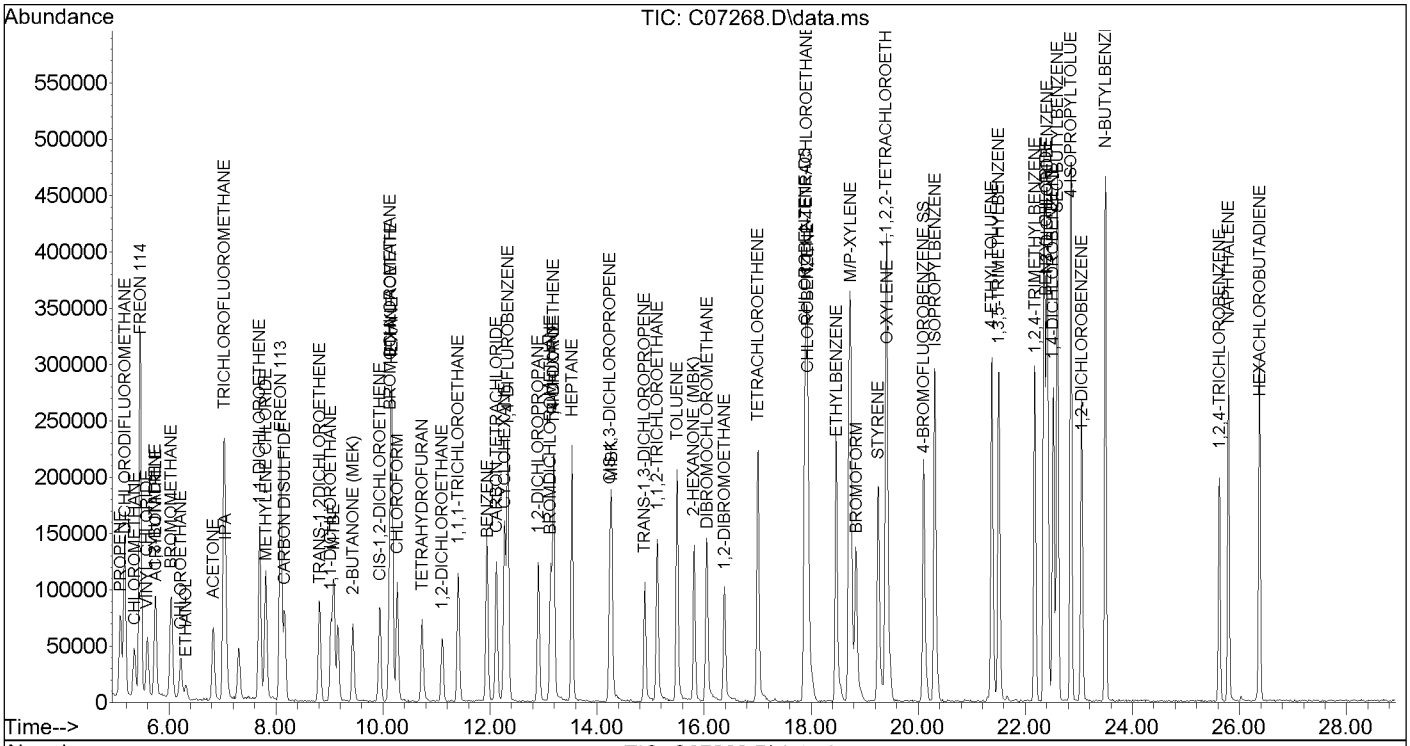
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.123	119	1270243	1.95	PPBv	#	100
36) CYCLOHEXANE	12.278	56	1116339	2.03	PPBv	#	100
38) 1,2-DICHLOROPROPANE	12.907	63	725569	1.97	PPBv	#	100
39) BROMDICHLOROMETHANE	13.138	83	1166330	1.95	PPBv	#	100
40) TRICHLOROETHENE	13.193	95	838241	1.97	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.189	95	1020467	2.38	PPBv	#	100
42) 1,4-DIOXANE	13.190	88	279655	1.96	PPBv	#	100
43) HEPTANE	13.536	57	688215	2.10	PPBv	#	100
44) MIBK	14.274	43	1700350	2.13	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.243	75	986441	2.06	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.897	75	824200	2.17	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.130	83	685763	1.91	PPBv	#	100
48) TOLUENE	15.499	91	2463713	2.10	PPBv	#	100
49) 2-HEXANONE (MBK)	15.817	58	777342	2.11	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.055	129	1357168	2.06	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.384	107	1104027	1.87	PPBv	#	100
52) TETRACHLOROETHENE	17.010	166	1059664	1.93	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.010	166	1398877	2.31	PPBv	#	100
55) CHLOROBENZENE	17.943	112	2214812	1.89	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.915	135	331518	2.23	PPBv	#	100
57) ETHYLBENZENE	18.473	91	3049593	2.14	PPBv	#	100
58) M/P-XYLENE	18.731	106	3068261	4.35	PPBv	#	100
59) BROMOFORM	18.843	173	1186899	2.13	PPBv	#	100
60) STYRENE	19.258	104	2037100	2.35	PPBv	#	100
61) O-XYLENE	19.417	106	1537573	2.17	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.401	83	2088667	2.18	PPBv	#	100
64) ISOPROPYLBENZENE	20.314	105	3915653	2.40	PPBv	#	100
65) 4-ETHYLTOLUENE	21.379	105	3613743	2.28	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.509	105	3033137	2.33	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.182	105	2742307	1.89	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.419	146	2237620	2.14	PPBv	#	100
69) BENZYL CHLORIDE	22.393	91	2320815	2.37	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.527	146	2211653	2.28	PPBv	#	100
71) SEC-BUTYLBENZENE	22.605	105	5503074	2.58	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.856	119	4534069	2.63	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.055	146	1848149	2.15	PPBv	#	100
74) N-BUTYLBENZENE	23.501	91	3741167	2.70	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.630	180	880378	2.69	PPBv	#	100
76) NAPHTHALENE	25.800	128	3570422	3.96	PPBv		100
77) HEXACHLOROBUTADIENE	26.380	225	688905	2.30	PPBv		100

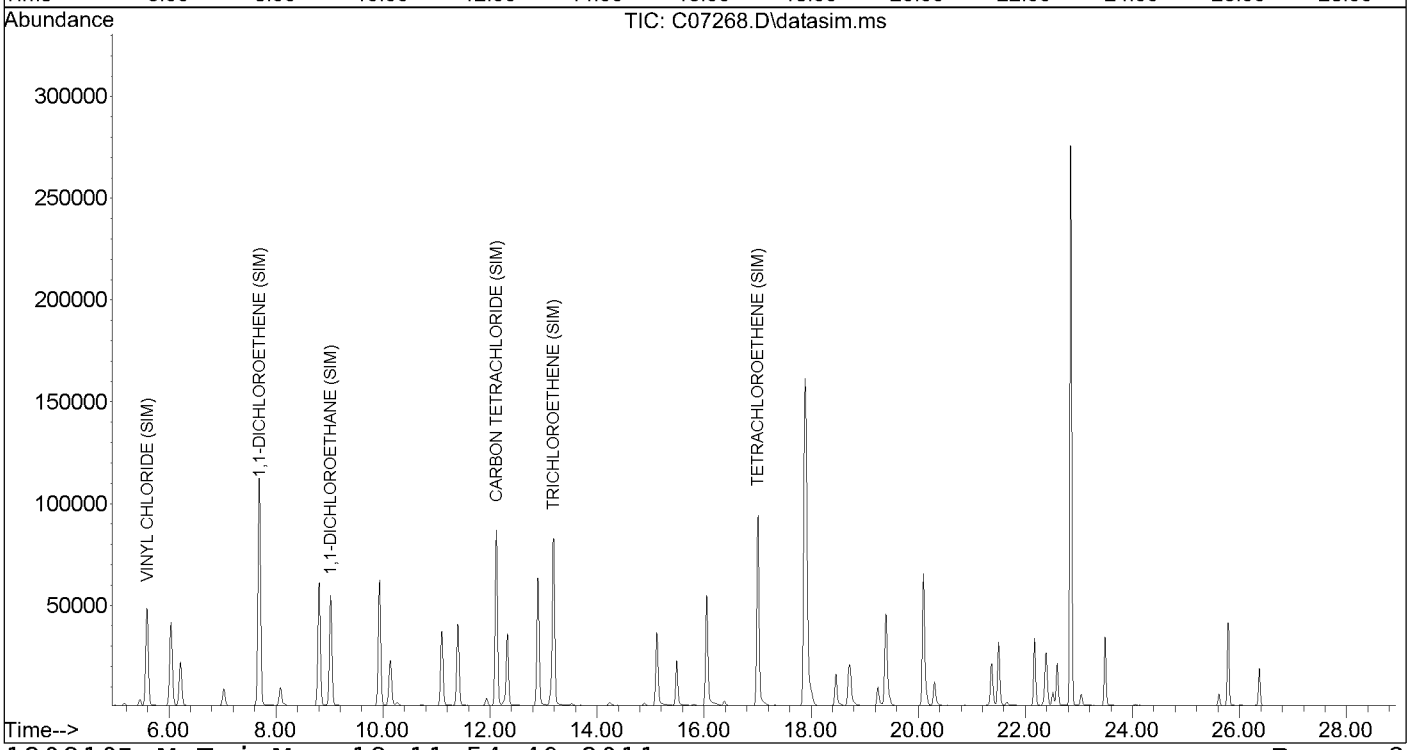
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07268.D
Acq On : 20 Jan 2011 9:08 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 20 10:47:35 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07273.D
Acq On : 20 Jan 2011 2:09 pm
Operator : KRL
Sample : can check 1363 Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 20 16:50:29 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.136	128	341959	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.339	114	1681462	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.886	54	207697	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.109	95	571940	9.05	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 90.50%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) VINYL CHLORIDE (SIM)	0.000		0	N.D.		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	0.000		0	N.D.		
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16) 1,1-DICHLOROETHENE (SIM)	0.000		0	N.D.		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22) 1,1-DICHLOROETHANE (SIM)	0.000		0	N.D.		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	0.000		0	N.D.		
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07273.D
Acq On : 20 Jan 2011 2:09 pm
Operator : KRL
Sample : can check 1363 Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 20 16:50:29 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

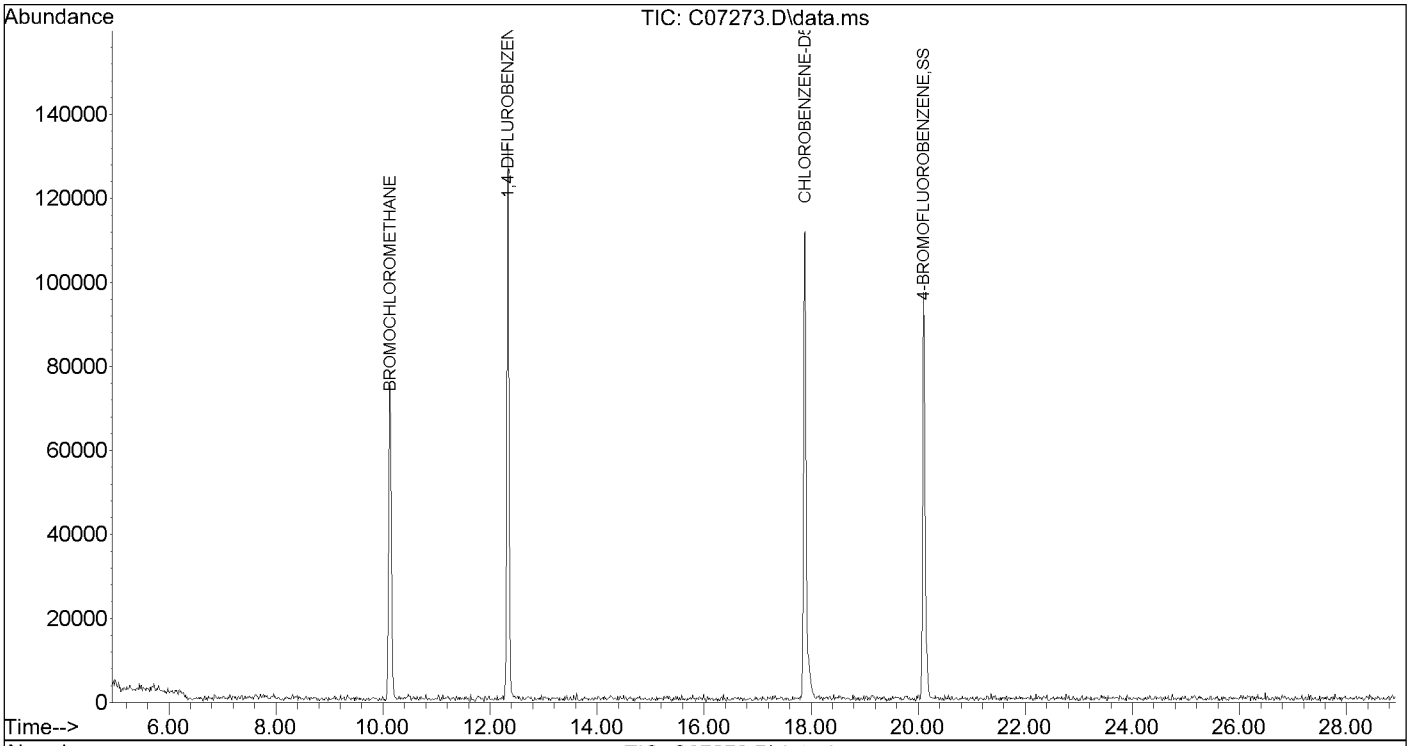
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	0.000		0	N.D.		
36) CYCLOHEXANE	0.000		0	N.D.	d	
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.		
39) BROMDICHLOROMETHANE	0.000		0	N.D.		
40) TRICHLOROETHENE	0.000		0	N.D.		
41) TRICHLOROETHENE (SIM)	0.000		0	N.D.		
42) 1,4-DIOXANE	0.000		0	N.D.		
43) HEPTANE	0.000		0	N.D.		
44) MIBK	0.000		0	N.D.		
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
48) TOLUENE	0.000		0	N.D.		
49) 2-HEXANONE (MBK)	0.000		0	N.D.		
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.		
51) 1,2-DIBROMOETHANE	0.000		0	N.D.		
52) TETRACHLOROETHENE	0.000		0	N.D.		
53) TETRACHLOROETHENE (SIM)	0.000		0	N.D.		
55) CHLOROBENZENE	0.000		0	N.D.		
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
57) ETHYLBENZENE	0.000		0	N.D.		
58) M/P-XYLENE	0.000		0	N.D.		
59) BROMOFORM	0.000		0	N.D.		
60) STYRENE	0.000		0	N.D.		
61) O-XYLENE	0.000		0	N.D.		
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.		
64) ISOPROPYLBENZENE	0.000		0	N.D.		
65) 4-ETHYLTOLUENE	0.000		0	N.D.		
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.		
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.		
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.		
69) BENZYL CHLORIDE	0.000		0	N.D.		
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.		
71) SEC-BUTYLBENZENE	0.000		0	N.D.		
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.		
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.		
74) N-BUTYLBENZENE	0.000		0	N.D.		
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.		
76) NAPHTHALENE	0.000		0	N.D.		
77) HEXACHLOROBUTADIENE	0.000		0	N.D.		

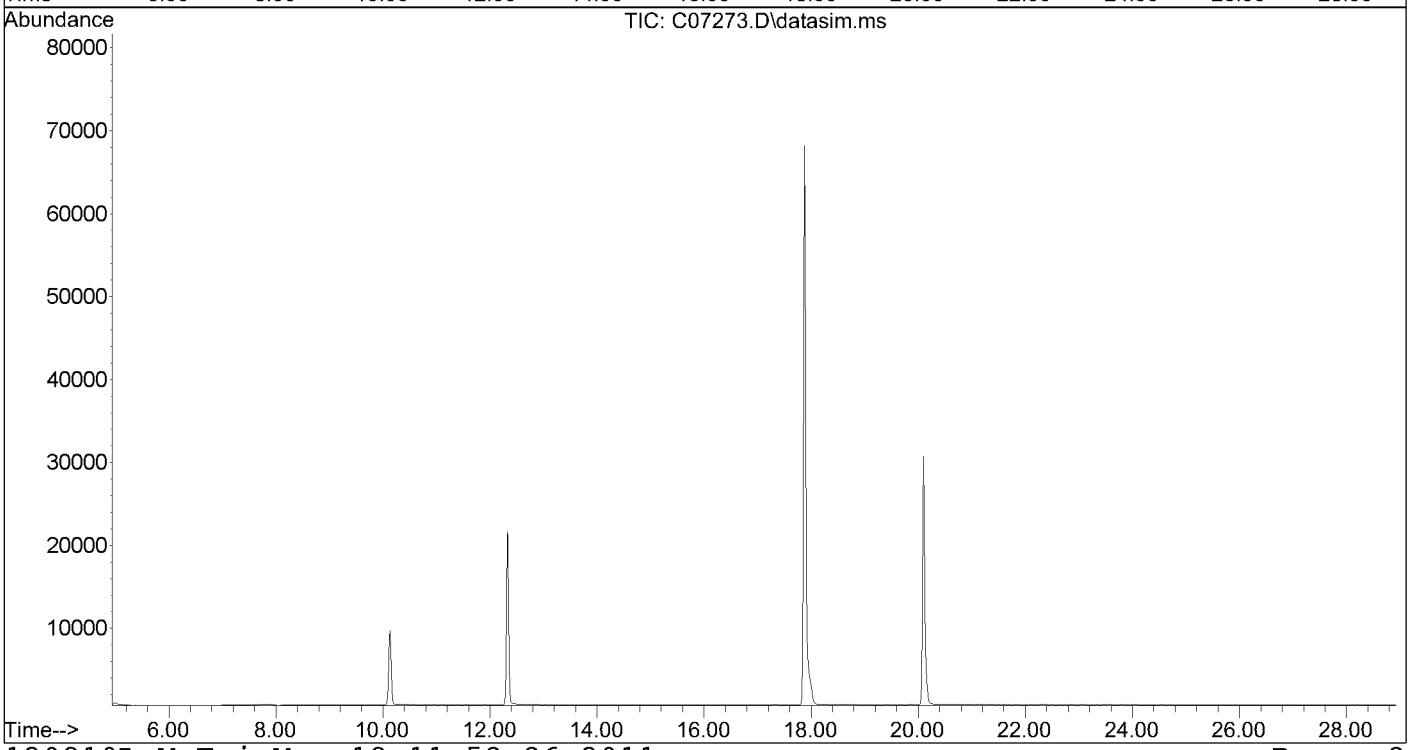
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07273.D
Acq On : 20 Jan 2011 2:09 pm
Operator : KRL
Sample : can check 1363 Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 20 16:50:29 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07274.D
Acq On : 20 Jan 2011 3:02 pm
Operator : KRL
Sample : can check 1657 Inst : Air 4
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 20 16:51:01 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.135	128	347673	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.339	114	1738759	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.886	54	215560	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.106	95	568531	8.66	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 86.60%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) VINYL CHLORIDE (SIM)	0.000		0	N.D.		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	0.000		0	N.D.		
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16) 1,1-DICHLOROETHENE (SIM)	0.000		0	N.D.		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22) 1,1-DICHLOROETHANE (SIM)	0.000		0	N.D.		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	0.000		0	N.D.		
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07274.D
Acq On : 20 Jan 2011 3:02 pm
Operator : KRL
Sample : can check 1657 Inst : Air 4
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 20 16:51:01 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

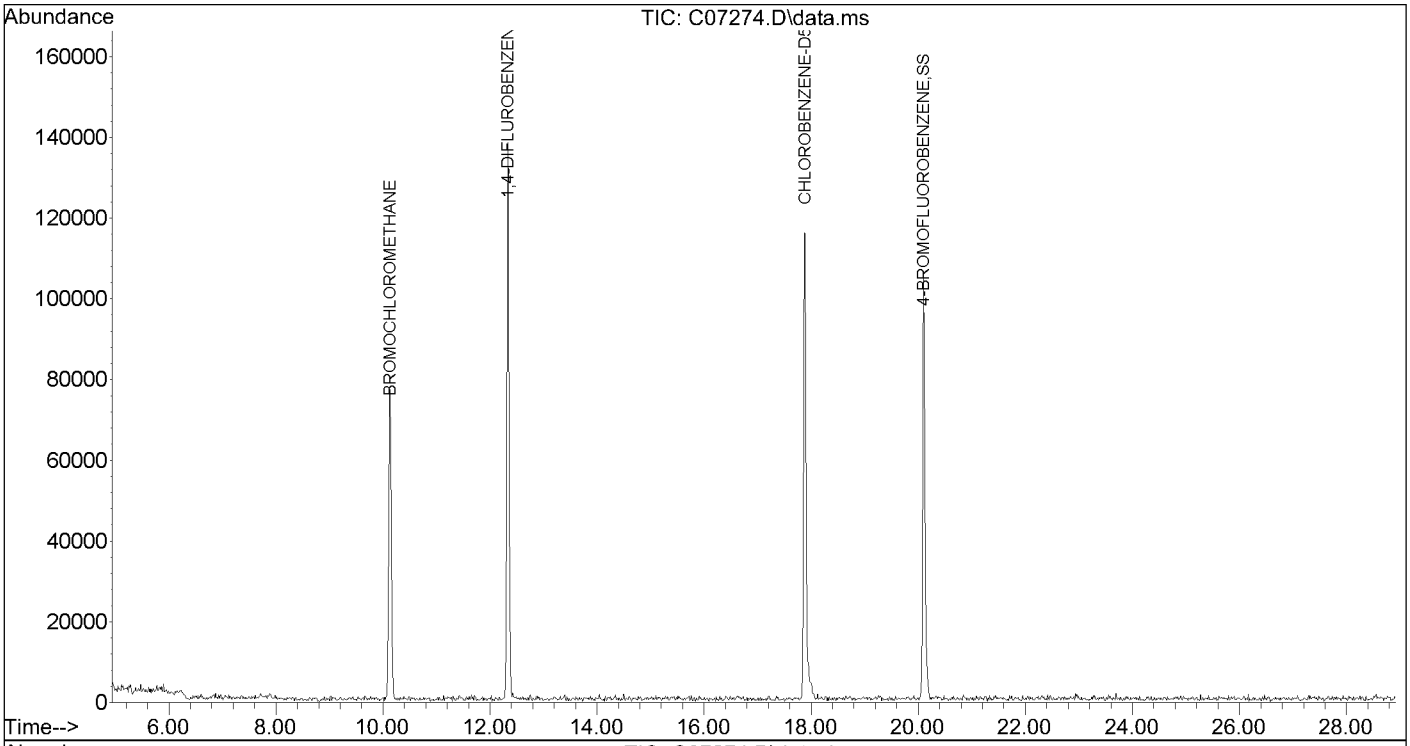
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	0.000		0	N.D.		
36) CYCLOHEXANE	0.000		0	N.D.	d	
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.		
39) BROMDICHLOROMETHANE	0.000		0	N.D.		
40) TRICHLOROETHENE	0.000		0	N.D.		
41) TRICHLOROETHENE (SIM)	0.000		0	N.D.		
42) 1,4-DIOXANE	0.000		0	N.D.		
43) HEPTANE	0.000		0	N.D.		
44) MIBK	0.000		0	N.D.		
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
48) TOLUENE	0.000		0	N.D.		
49) 2-HEXANONE (MBK)	0.000		0	N.D.		
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.		
51) 1,2-DIBROMOETHANE	0.000		0	N.D.		
52) TETRACHLOROETHENE	0.000		0	N.D.		
53) TETRACHLOROETHENE (SIM)	0.000		0	N.D.		
55) CHLOROBENZENE	0.000		0	N.D.		
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
57) ETHYLBENZENE	0.000		0	N.D.		
58) M/P-XYLENE	0.000		0	N.D.		
59) BROMOFORM	0.000		0	N.D.		
60) STYRENE	0.000		0	N.D.		
61) O-XYLENE	0.000		0	N.D.		
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.		
64) ISOPROPYLBENZENE	0.000		0	N.D.		
65) 4-ETHYLTOLUENE	0.000		0	N.D.		
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.		
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.		
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.		
69) BENZYL CHLORIDE	0.000		0	N.D.		
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.		
71) SEC-BUTYLBENZENE	0.000		0	N.D.		
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.		
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.		
74) N-BUTYLBENZENE	0.000		0	N.D.		
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.		
76) NAPHTHALENE	0.000		0	N.D.		
77) HEXACHLOROBUTADIENE	0.000		0	N.D.		

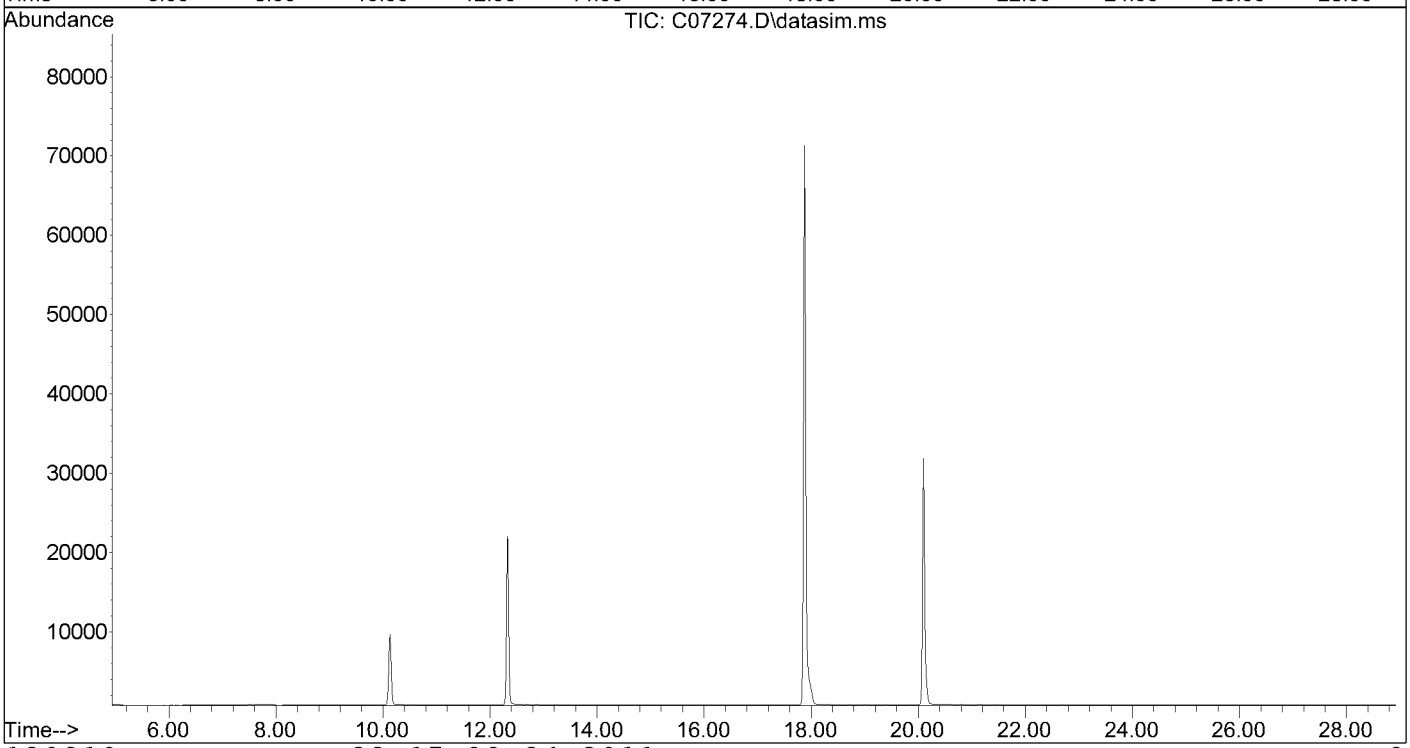
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07274.D
Acq On : 20 Jan 2011 3:02 pm
Operator : KRL
Sample : can check 1657 Inst : Air 4
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 20 16:51:01 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07278.D
Acq On : 20 Jan 2011 6:36 pm
Operator : KRL
Sample : can check 0217 Inst : Air 4
Misc : 1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 21 10:03:24 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.134	128	339123	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.338	114	1571678	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.883	54	188330	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.108	95	539335	9.41	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 94.10%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) VINYL CHLORIDE (SIM)	0.000		0	N.D.		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	6.855	58	18841	0.12	PPBv #	100
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16) 1,1-DICHLOROETHENE (SIM)	0.000		0	N.D.		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22) 1,1-DICHLOROETHANE (SIM)	0.000		0	N.D.		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	10.183	57	51543	0.17	PPBv #	100
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07278.D
Acq On : 20 Jan 2011 6:36 pm
Operator : KRL
Sample : can check 0217 Inst : Air 4
Misc : 1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 21 10:03:24 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

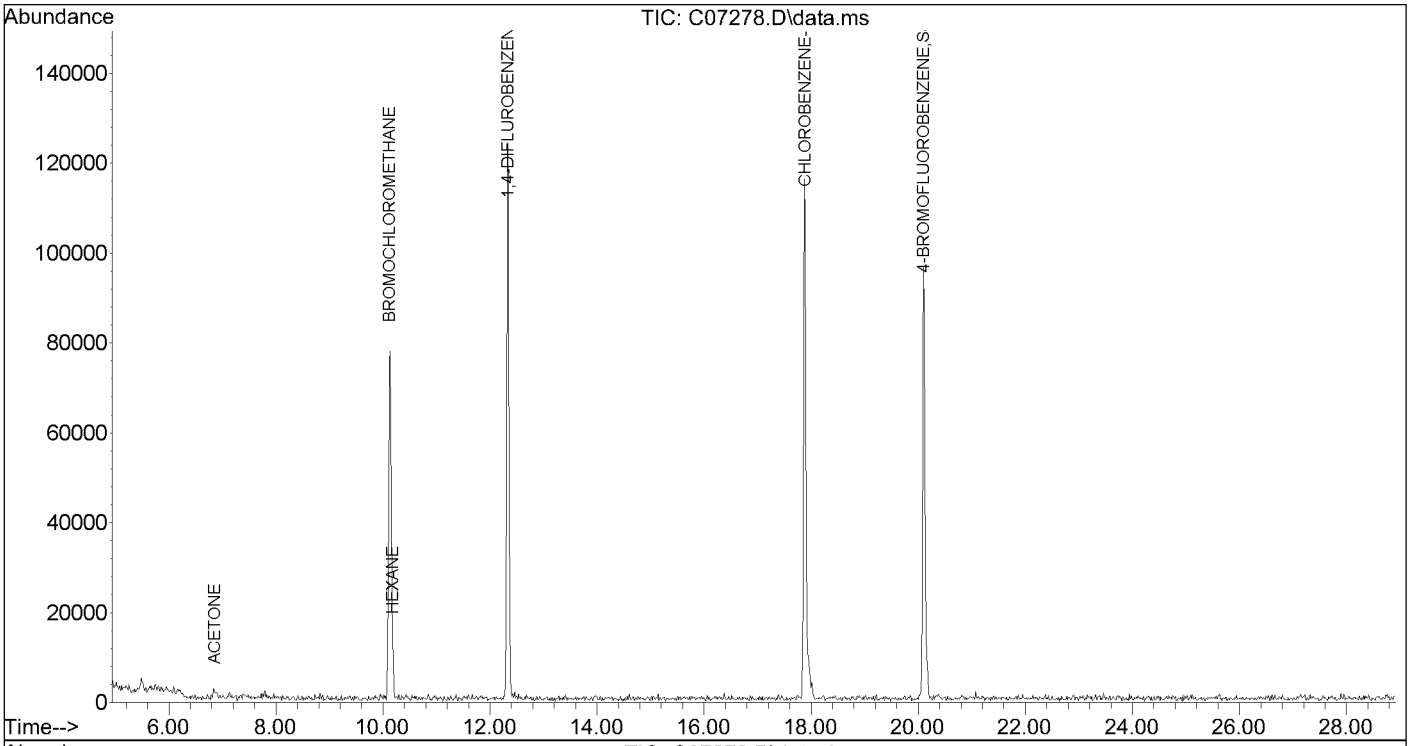
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	0.000		0	N.D.		
36) CYCLOHEXANE	0.000		0	N.D.	d	
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.		
39) BROMDICHLOROMETHANE	0.000		0	N.D.		
40) TRICHLOROETHENE	0.000		0	N.D.		
41) TRICHLOROETHENE (SIM)	0.000		0	N.D.		
42) 1,4-DIOXANE	0.000		0	N.D.		
43) HEPTANE	0.000		0	N.D.		
44) MIBK	0.000		0	N.D.		
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
48) TOLUENE	0.000		0	N.D.		
49) 2-HEXANONE (MBK)	0.000		0	N.D.		
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.		
51) 1,2-DIBROMOETHANE	0.000		0	N.D.		
52) TETRACHLOROETHENE	0.000		0	N.D.		
53) TETRACHLOROETHENE (SIM)	0.000		0	N.D.		
55) CHLOROBENZENE	0.000		0	N.D.	d	
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
57) ETHYLBENZENE	0.000		0	N.D.		
58) M/P-XYLENE	0.000		0	N.D.		
59) BROMOFORM	0.000		0	N.D.		
60) STYRENE	0.000		0	N.D.		
61) O-XYLENE	0.000		0	N.D.		
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.		
64) ISOPROPYLBENZENE	0.000		0	N.D.		
65) 4-ETHYLTOLUENE	0.000		0	N.D.		
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.		
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.		
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.		
69) BENZYL CHLORIDE	0.000		0	N.D.		
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.		
71) SEC-BUTYLBENZENE	0.000		0	N.D.		
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.		
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.		
74) N-BUTYLBENZENE	0.000		0	N.D.		
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.		
76) NAPHTHALENE	0.000		0	N.D.		
77) HEXACHLOROBUTADIENE	0.000		0	N.D.		

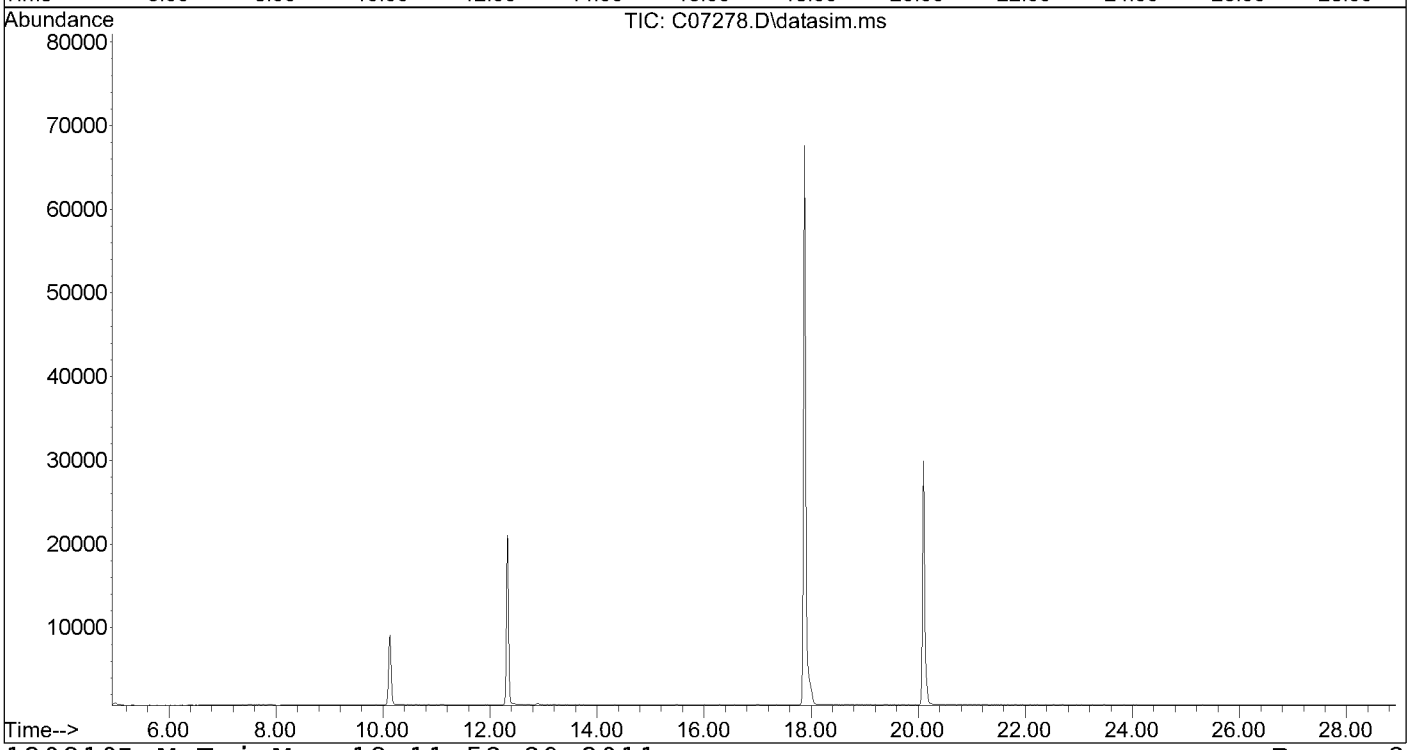
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07278.D
Acq On : 20 Jan 2011 6:36 pm
Operator : KRL
Sample : can check 0217 Inst : Air 4
Misc : 1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 21 10:03:24 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07279.D
Acq On : 20 Jan 2011 7:29 pm
Operator : KRL
Sample : can check 1345 Inst : Air 4
Misc : 1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 21 10:03:57 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.134	128	326717	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.339	114	1574157	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.880	54	233362	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.107	95	523284	7.37	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 73.70%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) VINYL CHLORIDE (SIM)	0.000		0	N.D.		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	0.000		0	N.D.		
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16) 1,1-DICHLOROETHENE (SIM)	0.000		0	N.D.		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22) 1,1-DICHLOROETHANE (SIM)	0.000		0	N.D.		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	0.000		0	N.D.		
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07279.D
Acq On : 20 Jan 2011 7:29 pm
Operator : KRL
Sample : can check 1345 Inst : Air 4
Misc : 1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 21 10:03:57 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

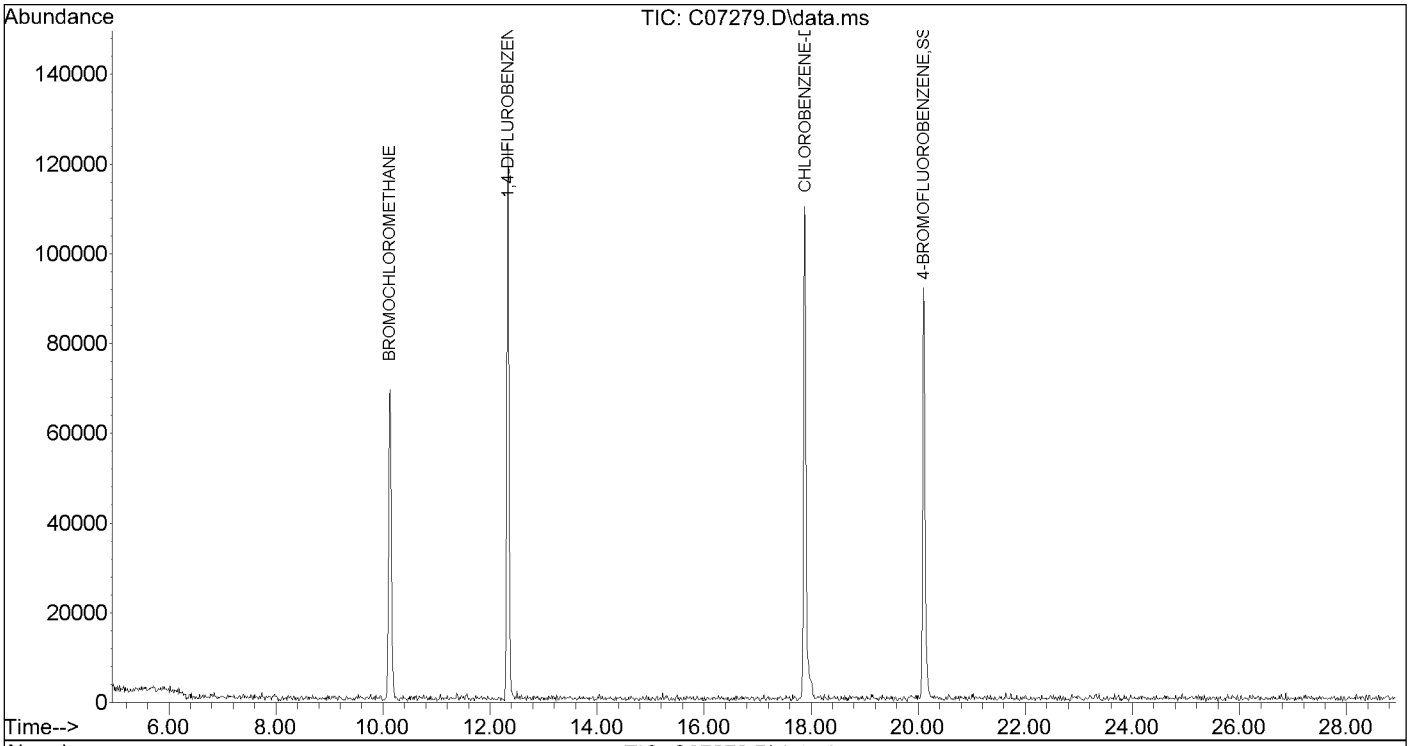
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	0.000		0	N.D.		
36) CYCLOHEXANE	0.000		0	N.D.	d	
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.		
39) BROMDICHLOROMETHANE	0.000		0	N.D.		
40) TRICHLOROETHENE	0.000		0	N.D.		
41) TRICHLOROETHENE (SIM)	0.000		0	N.D.		
42) 1,4-DIOXANE	0.000		0	N.D.		
43) HEPTANE	0.000		0	N.D.		
44) MIBK	0.000		0	N.D.		
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
48) TOLUENE	0.000		0	N.D.		
49) 2-HEXANONE (MBK)	0.000		0	N.D.		
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.		
51) 1,2-DIBROMOETHANE	0.000		0	N.D.		
52) TETRACHLOROETHENE	0.000		0	N.D.		
53) TETRACHLOROETHENE (SIM)	0.000		0	N.D.		
55) CHLOROBENZENE	0.000		0	N.D.		
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
57) ETHYLBENZENE	0.000		0	N.D.		
58) M/P-XYLENE	0.000		0	N.D.		
59) BROMOFORM	0.000		0	N.D.		
60) STYRENE	0.000		0	N.D.		
61) O-XYLENE	0.000		0	N.D.		
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.		
64) ISOPROPYLBENZENE	0.000		0	N.D.		
65) 4-ETHYLTOLUENE	0.000		0	N.D.		
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.		
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.		
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.		
69) BENZYL CHLORIDE	0.000		0	N.D.		
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.		
71) SEC-BUTYLBENZENE	0.000		0	N.D.		
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.		
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.		
74) N-BUTYLBENZENE	0.000		0	N.D.		
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.		
76) NAPHTHALENE	0.000		0	N.D.		
77) HEXACHLOROBUTADIENE	0.000		0	N.D.		

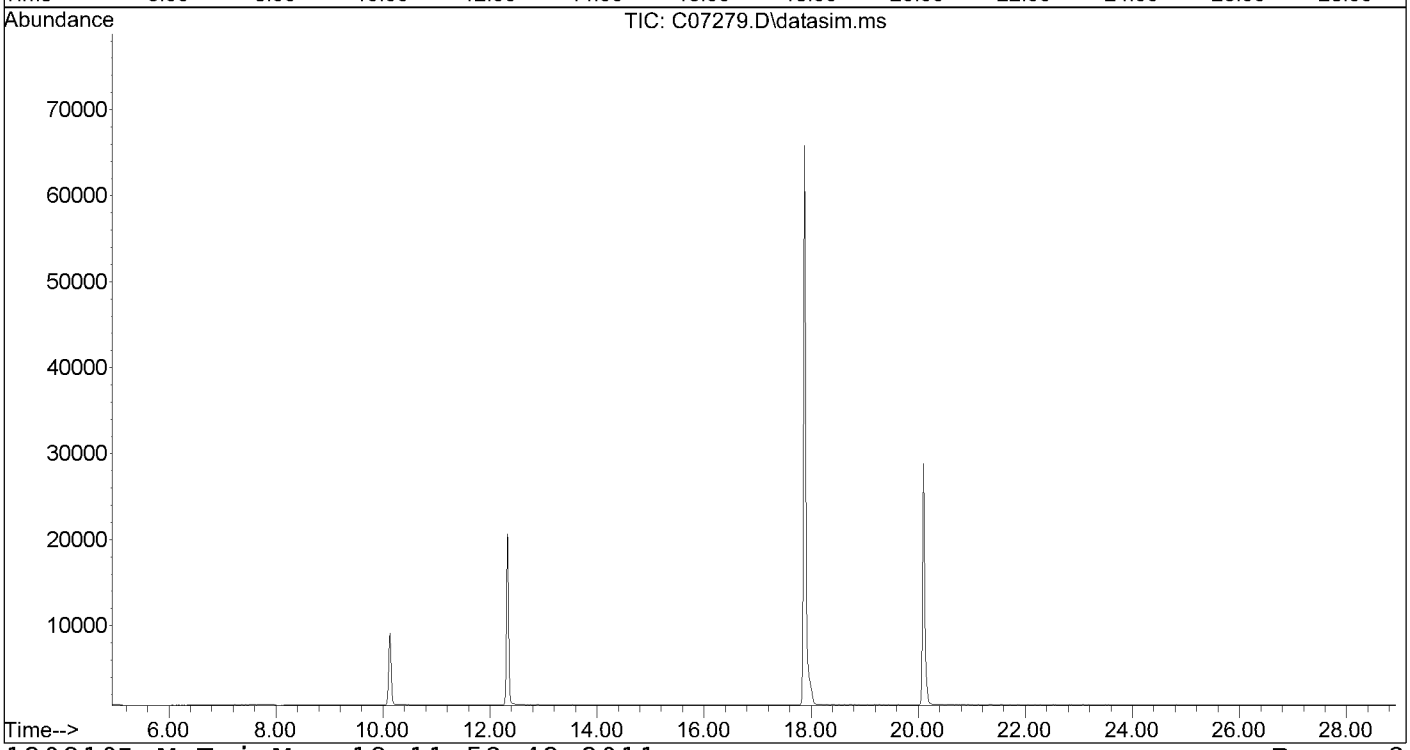
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Jan2011\Air4\012011\
Data File : C07279.D
Acq On : 20 Jan 2011 7:29 pm
Operator : KRL
Sample : can check 1345 Inst : Air 4
Misc : 1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 21 10:03:57 2011
Quant Method : C:\msdchem\1\METHODS\T4120810L.M
Quant Title :
QLast Update : Fri Jan 14 11:01:03 2011
Response via : Initial Calibration

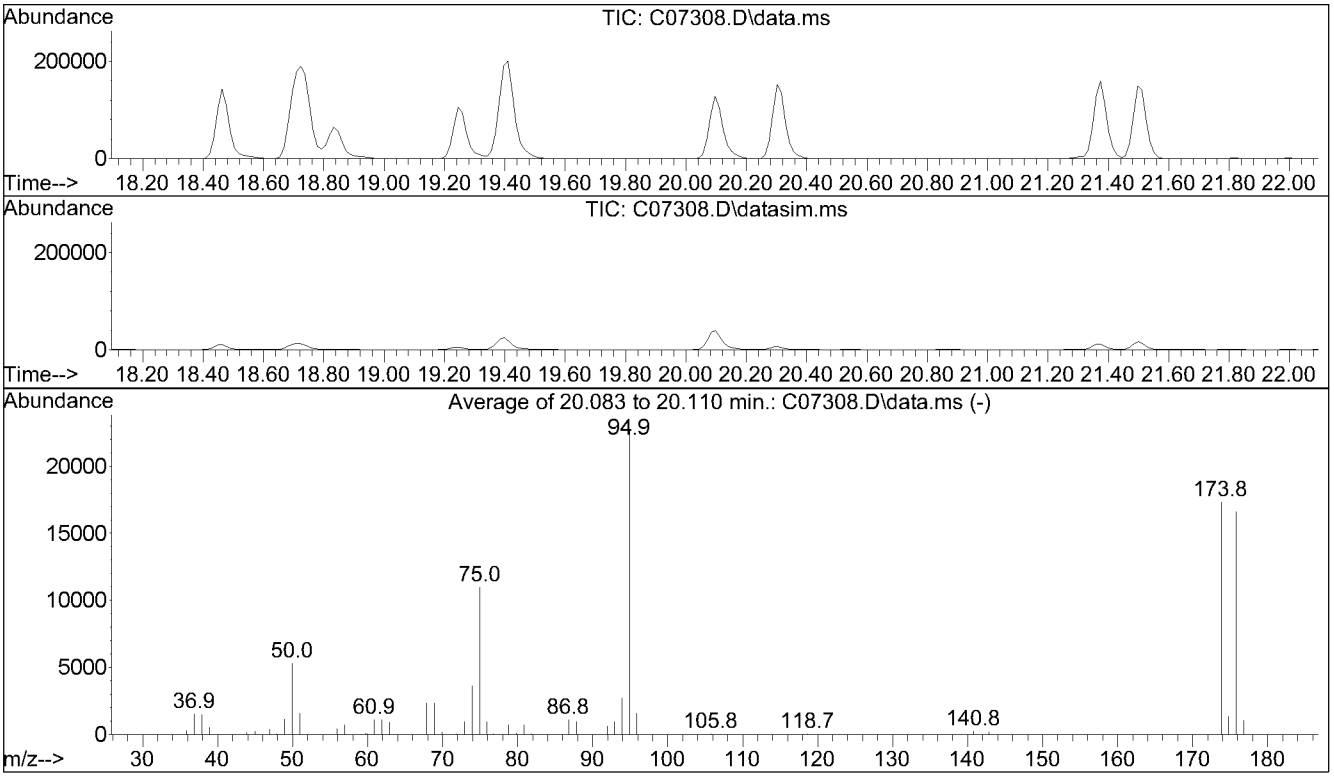




Data Path : G:\Feb2011\Air4\020111\
Data File : C07308.D
Acq On : 1 Feb 2011 8:50 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Method : C:\msdchem\1\METHODS\T4012411L.M
Title :
Last Update : Mon Feb 28 12:20:04 2011



AutoFind: Scans 1103, 1104, 1105; Background Corrected with Scan 1097

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.4	5315	PASS
75	95	30	60	48.4	10992	PASS
95	95	100	100	100.0	22712	PASS
96	95	5	9	7.1	1604	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.3	17330	PASS
175	174	5	9	7.8	1353	PASS
176	174	95	101	95.8	16597	PASS
177	176	5	9	6.2	1034	PASS

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020111\
Data File : C07308.D
Acq On : 1 Feb 2011 8:50 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 01 10:39:26 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.131	128	343395	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.333	114	1783127	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.880	54	353678	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.103	95	861181	10.39	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 103.90%#			
Target Compounds						Qvalue
2) PROPENE	5.097	42	341934	1.93	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.176	85	1242233	1.83	PPBv #	100
4) CHLOROMETHANE	5.358	50	670314	1.82	PPBv #	100
5) FREON 114	5.465	85	1438767	1.83	PPBv #	100
6) VINYL CHLORIDE	5.601	62	556961	1.83	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.593	62	597903	2.05	PPBv #	100
8) 1,3-BUTADIENE	5.749	54	457770	1.75	PPBv #	100
9) BROMOMETHANE	6.044	94	441072	1.79	PPBv #	100
10) CHLOROETHANE	6.225	64	289644	1.82	PPBv #	100
11) ACETONE	6.828	58	308079	1.98	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.032	101	1357713	1.64	PPBv #	100
13) ETHANOL	6.314	45	198926	1.72	PPBv #	100
14) ACRYLONITRILE	5.749	53	314703	1.70	PPBv #	100
15) 1,1-DICHLOROETHENE	7.698	96	474858	1.78	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.695	96	526887	1.99	PPBv #	100
17) METHYLENE CHLORIDE	7.812	84	415113	1.94	PPBv #	100
18) FREON 113	8.089	101	782700	1.68	PPBv #	100
19) CARBON DISULFIDE	8.164	76	1107162	2.02	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.816	96	377336	1.70	PPBv #	100
21) 1,1-DICHLOROETHANE	9.032	63	723270	1.67	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.024	63	794812	1.87	PPBv #	100
23) MTBE	9.080	73	982848	1.75	PPBv #	100
24) IPA	7.062	45	965961	1.65	PPBv #	100
25) 2-BUTANONE (MEK)	9.438	72	210087	1.85	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.942	96	400699	1.72	PPBv #	100
27) HEXANE	10.174	57	713057	1.63	PPBv #	100
28) ETHYL ACETATE	10.155	61	152433	1.98	PPBv #	100
29) CHLOROFORM	10.268	83	744378	1.68	PPBv #	100
30) TETRAHYDROFURAN	10.728	71	173045	1.87	PPBv #	100
31) 1,2-DICHLOROETHANE	11.109	62	531306	1.63	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.409	97	749117	1.64	PPBv #	100
33) BENZENE	11.944	78	1238873	1.71	PPBv	100
34) CARBON TETRACHLORIDE	12.122	119	716686	1.67	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020111\
Data File : C07308.D
Acq On : 1 Feb 2011 8:50 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 01 10:39:26 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

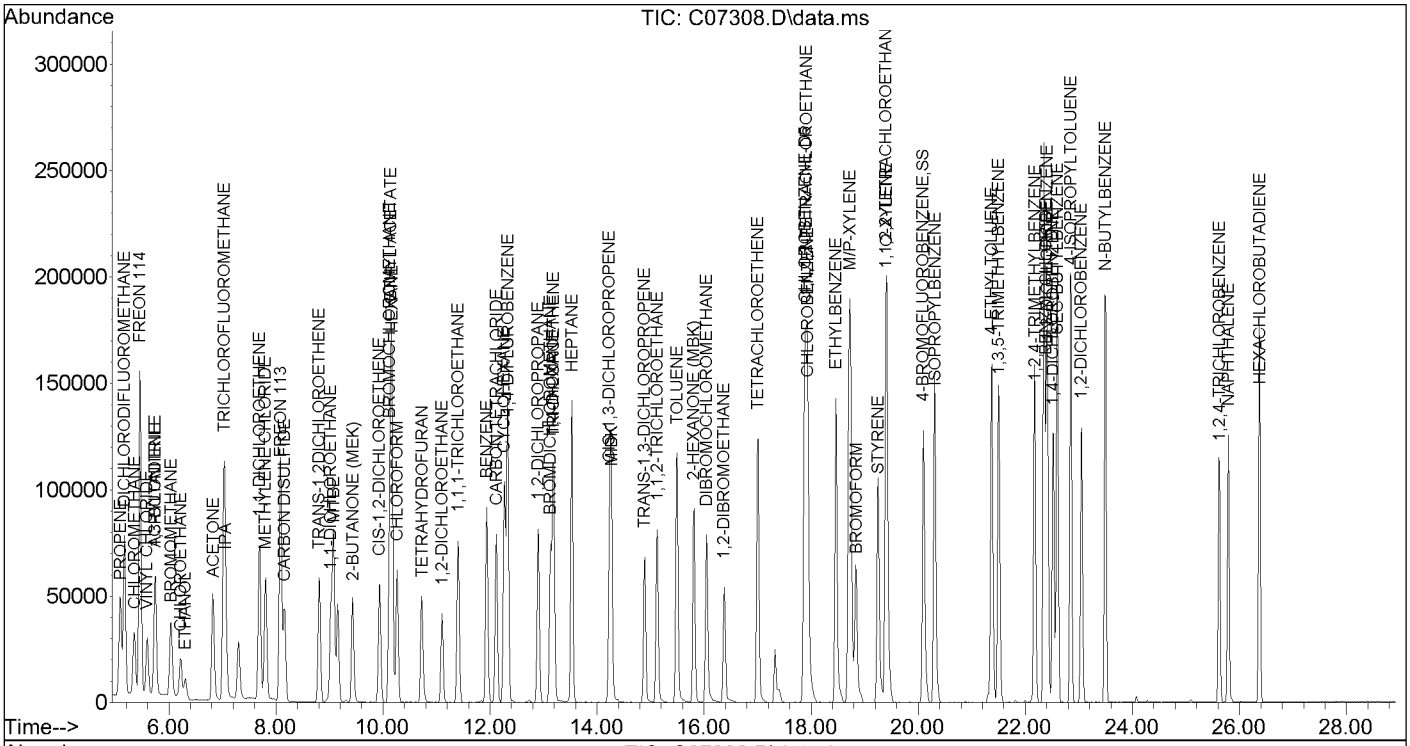
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.121	119	758941	1.81	PPBv	#	100
36) CYCLOHEXANE	12.274	56	762718	1.62	PPBv	#	100
38) 1,2-DICHLOROPROPANE	12.905	63	476550	1.75	PPBv	#	100
39) BROMDICHLOROMETHANE	13.135	83	761693	1.77	PPBv	#	100
40) TRICHLOROETHENE	13.190	95	513708	1.72	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.186	95	556926	1.88	PPBv	#	100
42) 1,4-DIOXANE	13.182	88	181627	1.61	PPBv	#	100
43) HEPTANE	13.534	57	461335	1.69	PPBv	#	100
44) MIBK	14.270	43	1213140	1.67	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.239	75	677606	1.81	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.893	75	598417	1.88	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.127	83	397216	1.81	PPBv	#	100
48) TOLUENE	15.496	91	1503524	1.73	PPBv	#	100
49) 2-HEXANONE (MBK)	15.813	58	523392	1.82	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.051	129	752634	1.86	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.381	107	694985	1.80	PPBv	#	100
52) TETRACHLOROETHENE	17.007	166	619607	1.65	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.008	166	682037	1.84	PPBv	#	100
55) CHLOROBENZENE	17.942	112	1086734	1.79	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.914	135	149603	1.84	PPBv	#	100
57) ETHYLBENZENE	18.468	91	1864677	1.83	PPBv	#	100
58) M/P-XYLENE	18.729	106	1459026	3.59	PPBv	#	100
59) BROMOFORM	18.843	173	601538	2.05	PPBv	#	100
60) STYRENE	19.255	104	980839	1.86	PPBv	#	100
61) O-XYLENE	19.415	106	696958	1.83	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.398	83	910961	1.88	PPBv	#	100
64) ISOPROPYLBENZENE	20.312	105	1895448	1.83	PPBv	#	100
65) 4-ETHYLTOLUENE	21.377	105	1980234	1.81	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.508	105	1555474	1.79	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.179	105	1506003	1.80	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.418	146	941262	1.78	PPBv	#	100
69) BENZYL CHLORIDE	22.393	91	969121	1.93	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.525	146	909808	1.76	PPBv	#	100
71) SEC-BUTYLBENZENE	22.603	105	2258567	1.80	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.854	119	1860355	1.73	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.055	146	823303	1.76	PPBv	#	100
74) N-BUTYLBENZENE	23.500	91	1688577	1.77	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.628	180	532305	1.95	PPBv	#	100
76) NAPHTHALENE	25.798	128	1456968	2.10	PPBv		100
77) HEXACHLOROBUTADIENE	26.379	225	443838	1.82	PPBv		100

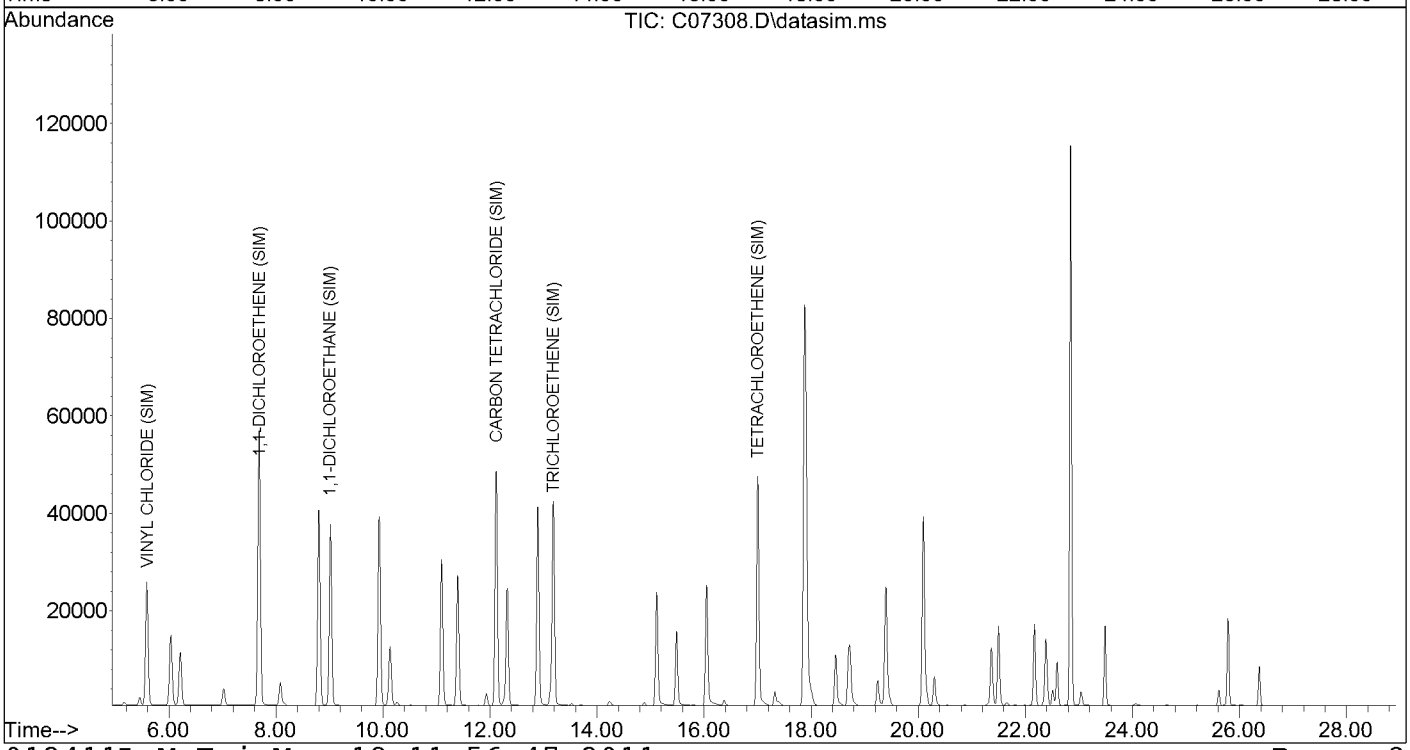
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020111\
Data File : C07308.D
Acq On : 1 Feb 2011 8:50 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 01 10:39:26 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020111\
Data File : C07309.D
Acq On : 1 Feb 2011 10:11 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 01 11:50:48 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.130	128	310638	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.335	114	1642346	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.881	54	329828	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.107	95	788705	10.20	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 102.00%#			
Target Compounds						Qvalue
2) PROPENE	5.093	42	302124	1.88	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.172	85	1096760	1.79	PPBv #	100
4) CHLOROMETHANE	5.355	50	468118	1.40	PPBv #	100
5) FREON 114	5.461	85	1201066	1.69	PPBv #	100
6) VINYL CHLORIDE	5.598	62	474049	1.72	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.590	62	511284	1.94	PPBv #	100
8) 1,3-BUTADIENE	5.747	54	396367	1.67	PPBv #	100
9) BROMOMETHANE	6.042	94	381638	1.71	PPBv #	100
10) CHLOROETHANE	6.222	64	249322	1.74	PPBv #	100
11) ACETONE	6.830	58	252629	1.79	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.029	101	1220188	1.63	PPBv #	100
13) ETHANOL	6.311	45	143109m	1.37	PPBv	
14) ACRYLONITRILE	5.747	53	273633	1.64	PPBv #	100
15) 1,1-DICHLOROETHENE	7.697	96	445903	1.85	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.693	96	494211	2.07	PPBv #	100
17) METHYLENE CHLORIDE	7.809	84	387440	2.00	PPBv #	100
18) FREON 113	8.088	101	800380	1.89	PPBv #	100
19) CARBON DISULFIDE	8.163	76	1060460	2.14	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.813	96	389231	1.93	PPBv #	100
21) 1,1-DICHLOROETHANE	9.031	63	743800	1.90	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.023	63	807062	2.10	PPBv #	100
23) MTBE	9.083	73	965785	1.90	PPBv #	100
24) IPA	7.074	45	927896	1.76	PPBv #	100
25) 2-BUTANONE (MEK)	9.442	72	206905	2.02	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.942	96	404416	1.92	PPBv #	100
27) HEXANE	10.172	57	743272	1.88	PPBv #	100
28) ETHYL ACETATE	10.160	61	146168	2.10	PPBv #	100
29) CHLOROFORM	10.268	83	752360	1.88	PPBv #	100
30) TETRAHYDROFURAN	10.732	71	168823	2.01	PPBv #	100
31) 1,2-DICHLOROETHANE	11.108	62	536925	1.82	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.408	97	782294	1.90	PPBv #	100
33) BENZENE	11.945	78	1259985	1.92	PPBv	100
34) CARBON TETRACHLORIDE	12.122	119	752814	1.94	PPBv #	100

Data Path : G:\Feb2011\Air4\020111\
Data File : C07309.D
Acq On : 1 Feb 2011 10:11 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 01 11:50:48 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

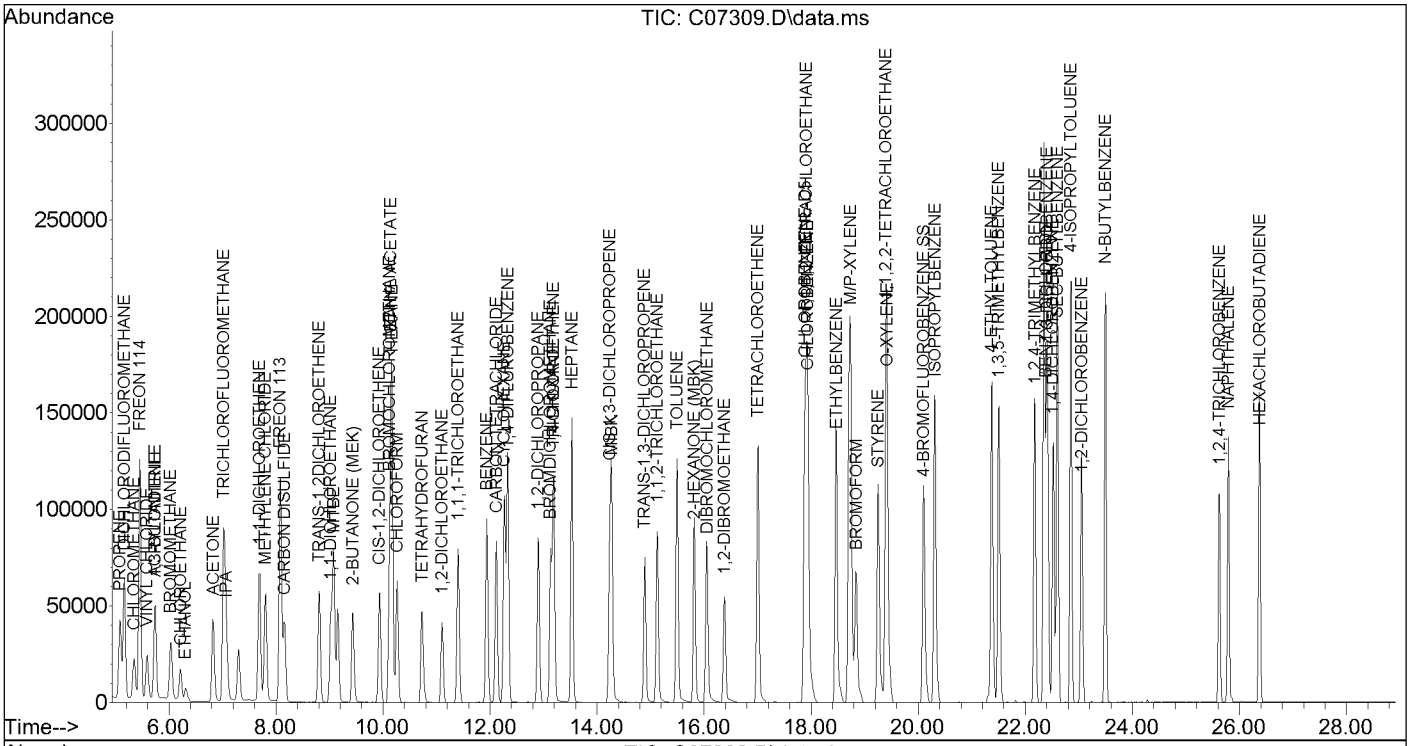
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.121	119	801951	2.12	PPBv	#	100
36) CYCLOHEXANE	12.273	56	797773	1.88	PPBv	#	100
38) 1,2-DICHLOROPROPANE	12.907	63	487552	1.94	PPBv	#	100
39) BROMDICHLOROMETHANE	13.137	83	801632	2.03	PPBv	#	100
40) TRICHLOROETHENE	13.191	95	537460	1.96	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.187	95	575436	2.11	PPBv	#	100
42) 1,4-DIOXANE	13.191	88	181805	1.75	PPBv	#	100
43) HEPTANE	13.534	57	480944	1.92	PPBv	#	100
44) MIBK	14.276	43	1268624	1.89	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.240	75	699950	2.04	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.897	75	622816	2.12	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.129	83	424394	2.09	PPBv	#	100
48) TOLUENE	15.498	91	1590087	1.99	PPBv	#	100
49) 2-HEXANONE (MBK)	15.820	58	537294	2.02	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.054	129	811215	2.18	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.385	107	741708	2.08	PPBv	#	100
52) TETRACHLOROETHENE	17.009	166	658027	1.90	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.010	166	730227	2.15	PPBv	#	100
55) CHLOROBENZENE	17.943	112	1186385	2.09	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.916	135	168177	2.22	PPBv	#	100
57) ETHYLBENZENE	18.471	91	1987731	2.09	PPBv	#	100
58) M/P-XYLENE	18.730	106	1569394	4.14	PPBv	#	100
59) BROMOFORM	18.845	173	652218	2.39	PPBv	#	100
60) STYRENE	19.257	104	1091723	2.22	PPBv	#	100
61) O-XYLENE	19.418	106	750268	2.11	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.401	83	950745	2.10	PPBv	#	100
64) ISOPROPYLBENZENE	20.314	105	2040705	2.11	PPBv	#	100
65) 4-ETHYLTOLUENE	21.378	105	2057059	2.02	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.509	105	1643920	2.03	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.181	105	1539891	1.98	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.420	146	982136	1.99	PPBv	#	100
69) BENZYL CHLORIDE	22.394	91	1038417	2.21	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.527	146	962592	2.00	PPBv	#	100
71) SEC-BUTYLBENZENE	22.605	105	2428528	2.08	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.856	119	2046947	2.04	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.056	146	824650	1.89	PPBv	#	100
74) N-BUTYLBENZENE	23.501	91	1824136	2.05	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.628	180	502635	1.97	PPBv	#	100
76) NAPHTHALENE	25.799	128	1596332	2.46	PPBv		100
77) HEXACHLOROBUTADIENE	26.380	225	406715	1.79	PPBv		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020111\
Data File : C07309.D
Acq On : 1 Feb 2011 10:11 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 01 11:50:48 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020111\
Data File : C07315.D
Acq On : 1 Feb 2011 7:58 pm
Operator : KRL
Sample : can check 0498 Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 03 10:06:39 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.135	128	198165	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.335	114	1060463	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.879	54	225834	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.103	95	497009	9.39	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 93.90%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) VINYL CHLORIDE (SIM)	0.000		0	N.D.		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	6.860	58	11831m	0.13	PPBv	
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16) 1,1-DICHLOROETHENE (SIM)	0.000		0	N.D.		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22) 1,1-DICHLOROETHANE (SIM)	0.000		0	N.D.		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	10.178	57	28512	0.11	PPBv	# 100
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020111\
Data File : C07315.D
Acq On : 1 Feb 2011 7:58 pm
Operator : KRL
Sample : can check 0498 Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 03 10:06:39 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

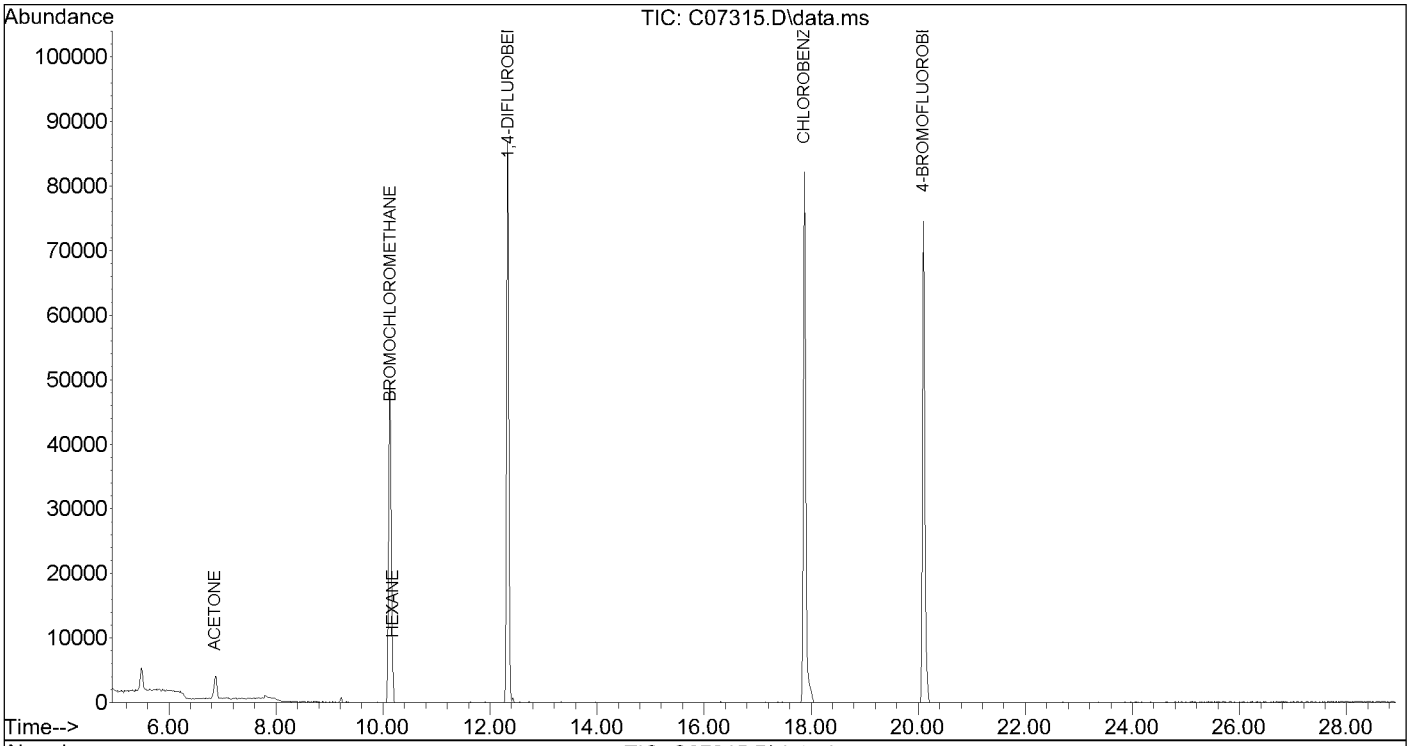
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	0.000		0	N.D.		
36) CYCLOHEXANE	0.000		0	N.D.	d	
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.		
39) BROMDICHLOROMETHANE	0.000		0	N.D.		
40) TRICHLOROETHENE	0.000		0	N.D.		
41) TRICHLOROETHENE (SIM)	0.000		0	N.D.		
42) 1,4-DIOXANE	0.000		0	N.D.		
43) HEPTANE	0.000		0	N.D.		
44) MIBK	0.000		0	N.D.		
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
48) TOLUENE	0.000		0	N.D.		
49) 2-HEXANONE (MBK)	0.000		0	N.D.		
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.		
51) 1,2-DIBROMOETHANE	0.000		0	N.D.		
52) TETRACHLOROETHENE	0.000		0	N.D.		
53) TETRACHLOROETHENE (SIM)	0.000		0	N.D.		
55) CHLOROBENZENE	0.000		0	N.D.		
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
57) ETHYLBENZENE	0.000		0	N.D.		
58) M/P-XYLENE	0.000		0	N.D.		
59) BROMOFORM	0.000		0	N.D.		
60) STYRENE	0.000		0	N.D.		
61) O-XYLENE	0.000		0	N.D.		
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.		
64) ISOPROPYLBENZENE	0.000		0	N.D.		
65) 4-ETHYLTOLUENE	0.000		0	N.D.		
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.		
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.		
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.		
69) BENZYL CHLORIDE	0.000		0	N.D.		
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.		
71) SEC-BUTYLBENZENE	0.000		0	N.D.		
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.		
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.		
74) N-BUTYLBENZENE	0.000		0	N.D.		
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.		
76) NAPHTHALENE	0.000		0	N.D.		
77) HEXACHLOROBUTADIENE	0.000		0	N.D.		

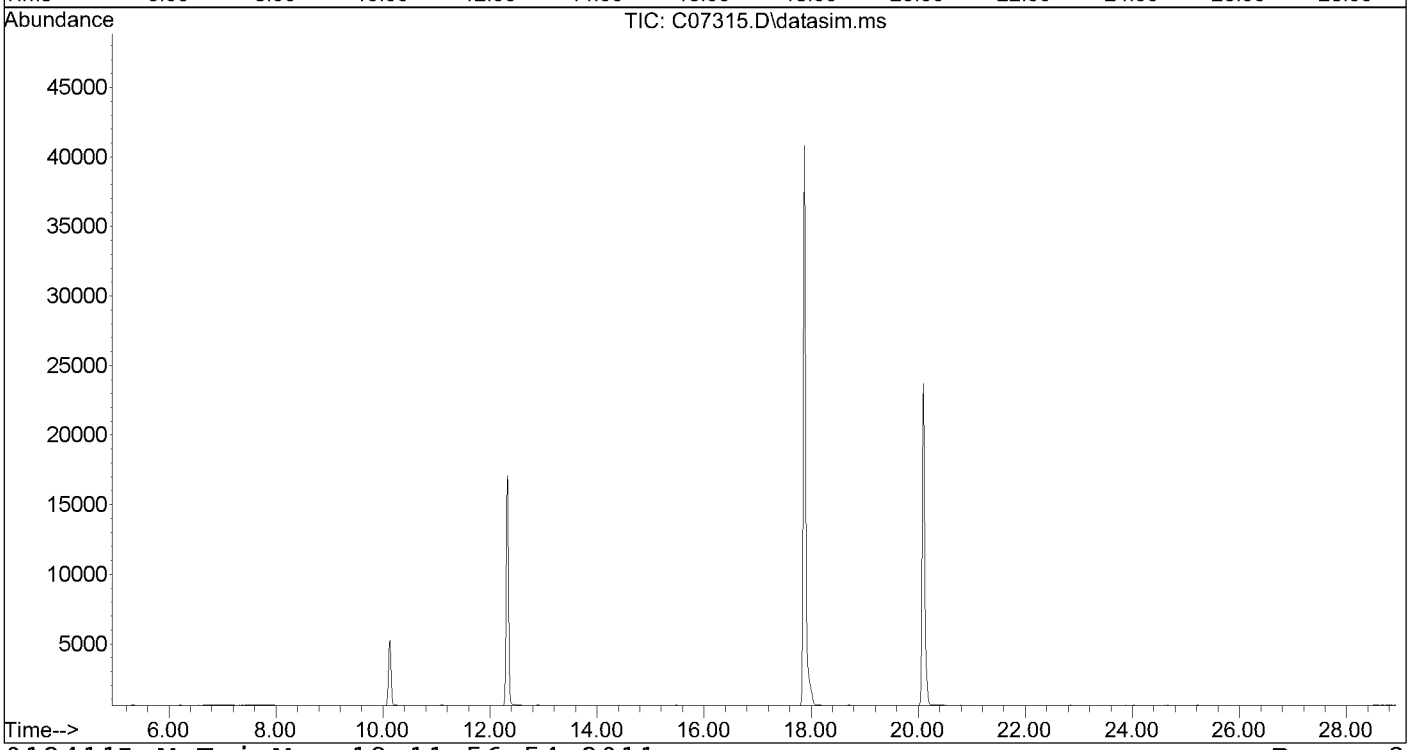
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020111\
Data File : C07315.D
Acq On : 1 Feb 2011 7:58 pm
Operator : KRL
Sample : can check 0498 Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 03 10:06:39 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

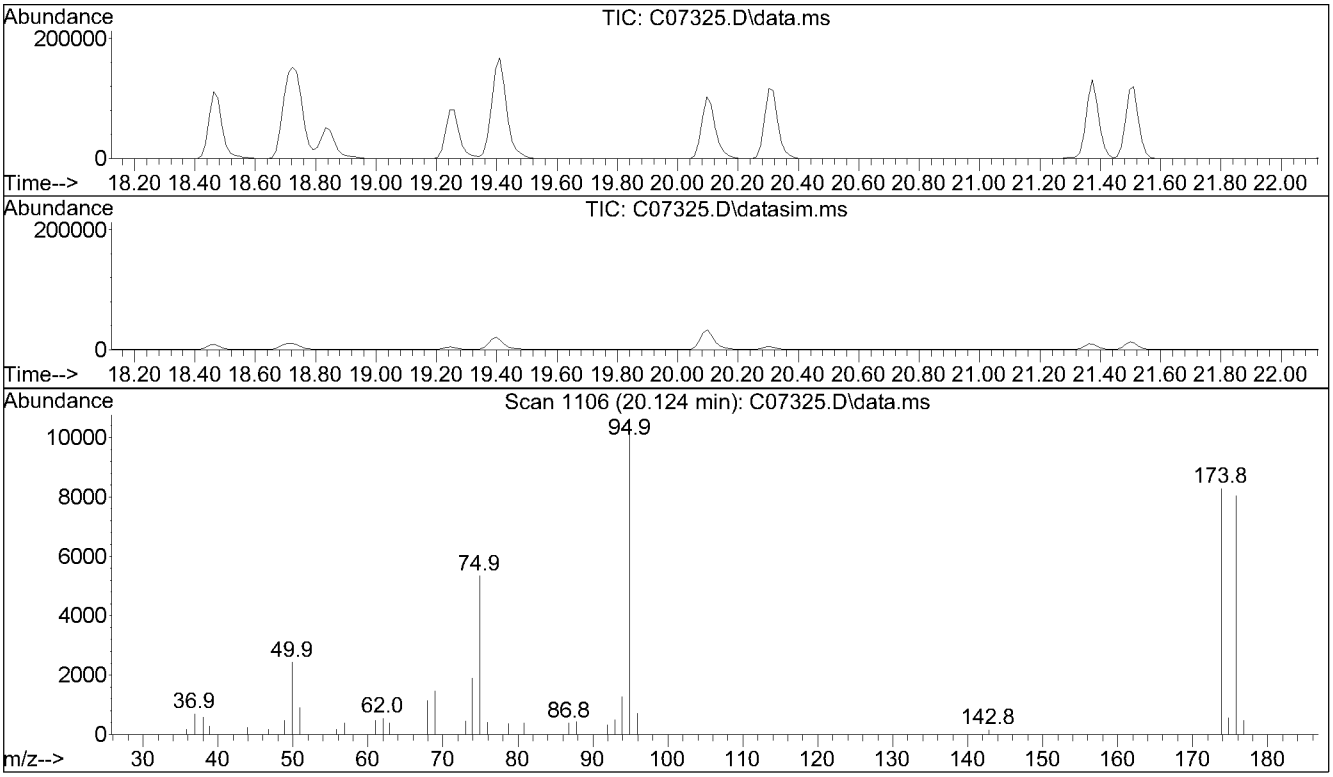




Data Path : G:\Feb2011\Air4\020811\
Data File : C07325.D
Acq On : 8 Feb 2011 9:08 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Method : C:\msdchem\1\METHODS\T4012411L.M
Title :
Last Update : Mon Feb 28 12:20:04 2011



Spectrum Information: Scan 1106

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.7	2431	PASS
75	95	30	60	52.1	5343	PASS
95	95	100	100	100.0	10263	PASS
96	95	5	9	7.1	728	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.8	8291	PASS
175	174	5	9	6.9	574	PASS
176	174	95	101	97.1	8049	PASS
177	176	5	9	5.9	476	PASS

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020811\
Data File : C07325.D
Acq On : 8 Feb 2011 9:08 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 08 10:35:04 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.134	128	261799	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.338	114	1422181	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.882	54	297281	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.105	95	704391	10.11	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 101.10%#			
Target Compounds						Qvalue
2) PROPENE	5.097	42	247864	1.83	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.178	85	886074	1.71	PPBv #	100
4) CHLOROMETHANE	5.360	50	470602	1.67	PPBv #	100
5) FREON 114	5.469	85	984087	1.64	PPBv #	100
6) VINYL CHLORIDE	5.602	62	395256	1.70	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.596	62	423769	1.91	PPBv #	100
8) 1,3-BUTADIENE	5.752	54	324395	1.63	PPBv #	100
9) BROMOMETHANE	6.048	94	320844	1.71	PPBv #	100
10) CHLOROETHANE	6.229	64	205656	1.70	PPBv #	100
11) ACETONE	6.836	58	243558	2.05	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.036	101	1087086	1.73	PPBv #	100
13) ETHANOL	6.330	45	132228	1.50	PPBv #	100
14) ACRYLONITRILE	5.753	53	221687	1.57	PPBv #	100
15) 1,1-DICHLOROETHENE	7.700	96	409138	2.01	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.697	96	458302	2.28	PPBv #	100
17) METHYLENE CHLORIDE	7.814	84	364084	2.23	PPBv #	100
18) FREON 113	8.092	101	660732	1.86	PPBv #	100
19) CARBON DISULFIDE	8.167	76	905972	2.17	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.817	96	313387	1.85	PPBv #	100
21) 1,1-DICHLOROETHANE	9.034	63	610309	1.85	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.028	63	665501	2.06	PPBv #	100
23) MTBE	9.087	73	764509	1.79	PPBv #	100
24) IPA	7.083	45	745668	1.67	PPBv #	100
25) 2-BUTANONE (MEK)	9.446	72	171041	1.98	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.947	96	322726	1.82	PPBv #	100
27) HEXANE	10.177	57	590297	1.77	PPBv #	100
28) ETHYL ACETATE	10.168	61	114586	1.96	PPBv #	100
29) CHLOROFORM	10.273	83	616144	1.82	PPBv #	100
30) TETRAHYDROFURAN	10.738	71	134083	1.90	PPBv #	100
31) 1,2-DICHLOROETHANE	11.113	62	432413	1.74	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.412	97	606778	1.75	PPBv #	100
33) BENZENE	11.948	78	1015717	1.84	PPBv	100
34) CARBON TETRACHLORIDE	12.124	119	573307	1.75	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020811\
Data File : C07325.D
Acq On : 8 Feb 2011 9:08 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 08 10:35:04 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

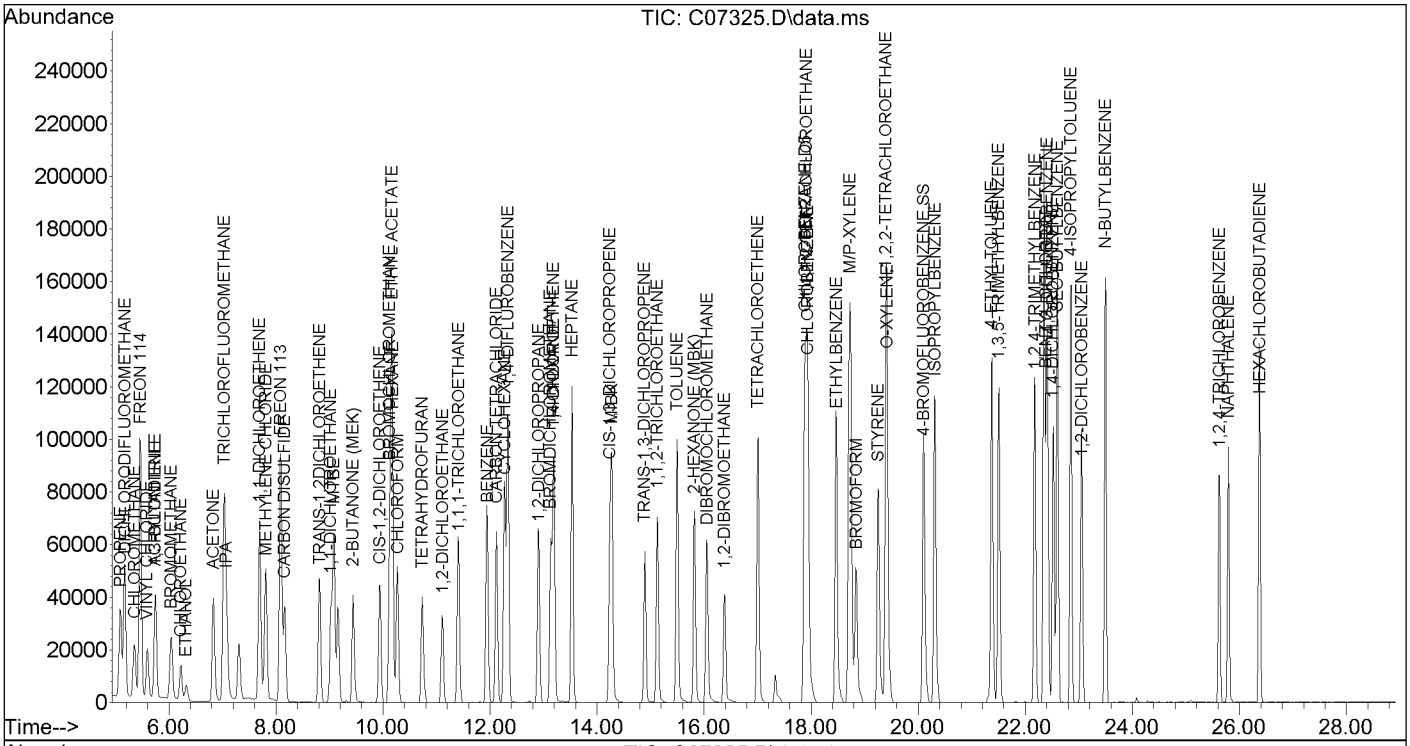
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.123	119	616564	1.93	PPBv	#	100
36) CYCLOHEXANE	12.277	56	623348	1.74	PPBv	#	100
38) 1,2-DICHLOROPROPANE	12.909	63	388490	1.79	PPBv	#	100
39) BROMDICHLOROMETHANE	13.140	83	633059	1.85	PPBv	#	100
40) TRICHLOROETHENE	13.194	95	413945	1.74	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.190	95	453441	1.92	PPBv	#	100
42) 1,4-DIOXANE	13.193	88	135952	1.51	PPBv	#	100
43) HEPTANE	13.537	57	374703	1.72	PPBv	#	100
44) MIBK	14.280	43	986313	1.70	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.244	75	548472	1.84	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.898	75	478192	1.88	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.131	83	328335	1.87	PPBv	#	100
48) TOLUENE	15.500	91	1200693	1.74	PPBv	#	100
49) 2-HEXANONE (MBK)	15.824	58	420938	1.83	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.056	129	596645	1.85	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.387	107	549460	1.78	PPBv	#	100
52) TETRACHLOROETHENE	17.011	166	480162	1.60	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.011	166	519124	1.76	PPBv	#	100
55) CHLOROBENZENE	17.944	112	853599	1.67	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.918	135	119738	1.75	PPBv	#	100
57) ETHYLBENZENE	18.472	91	1489708	1.74	PPBv	#	100
58) M/P-XYLENE	18.729	106	1162981	3.41	PPBv	#	100
59) BROMOFORM	18.845	173	478937	1.94	PPBv	#	100
60) STYRENE	19.257	104	762505	1.72	PPBv	#	100
61) O-XYLENE	19.418	106	549237	1.71	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.402	83	752868	1.85	PPBv	#	100
64) ISOPROPYLBENZENE	20.314	105	1483926	1.70	PPBv	#	100
65) 4-ETHYLTOLUENE	21.378	105	1546461	1.68	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.510	105	1228340	1.68	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.181	105	1180691	1.68	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.419	146	743527	1.67	PPBv	#	100
69) BENZYL CHLORIDE	22.394	91	751890	1.78	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.527	146	731091	1.69	PPBv	#	100
71) SEC-BUTYLBENZENE	22.604	105	1821465	1.73	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.855	119	1474269	1.63	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.056	146	654331	1.67	PPBv	#	100
74) N-BUTYLBENZENE	23.502	91	1367235	1.70	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.628	180	395046	1.72	PPBv	#	100
76) NAPHTHALENE	25.799	128	1093988	1.87	PPBv		100
77) HEXACHLOROBUTADIENE	26.380	225	334228	1.63	PPBv		100

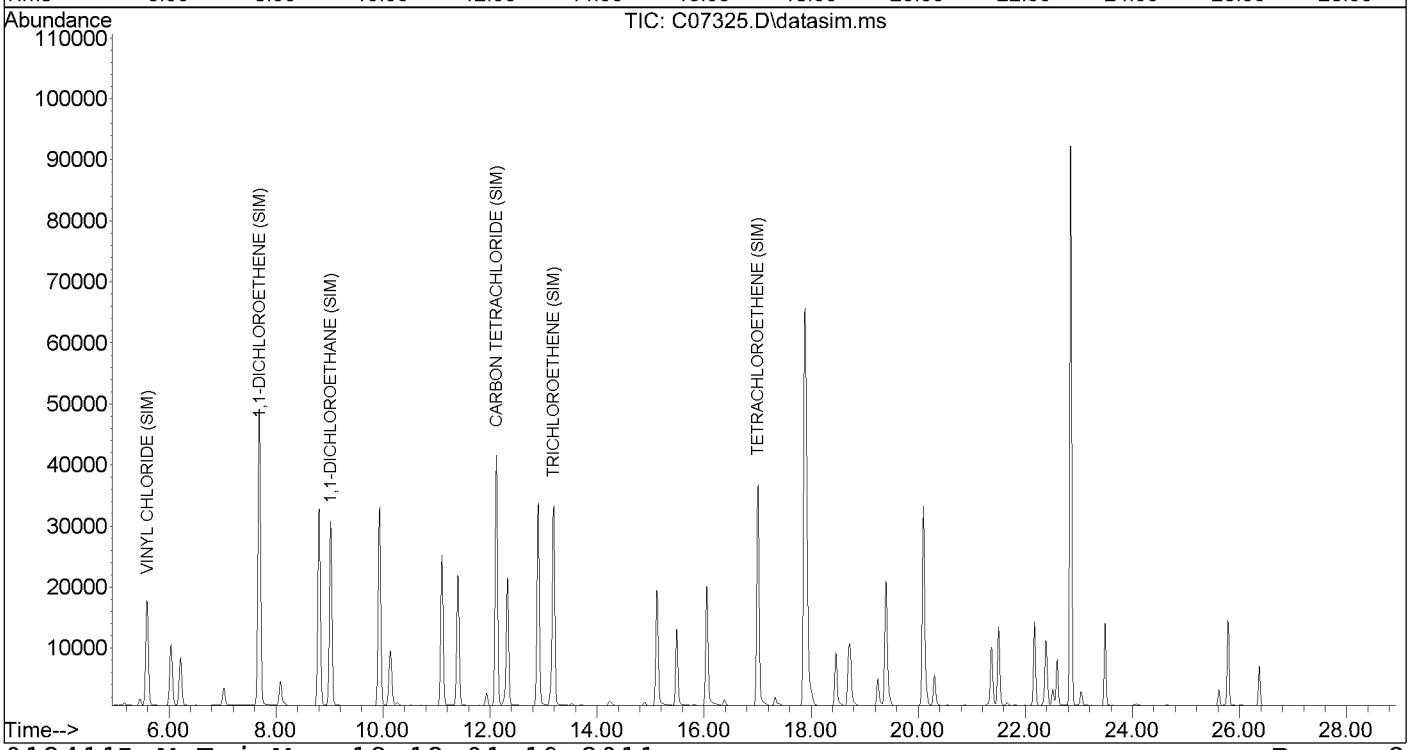
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020811\
Data File : C07325.D
Acq On : 8 Feb 2011 9:08 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 08 10:35:04 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration





Quantitation Report (Not Reviewed)

Data Path : G:\Feb2011\Air4\020811\
Data File : C07326.D
Acq On : 8 Feb 2011 10:01 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 08 11:39:20 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.130	128	244952	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.332	114	1322482	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.879	54	277658	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.103	95	651480	10.01	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 100.10%#			
Target Compounds						Qvalue
2) PROPENE	5.093	42	251365	1.99	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.172	85	957178	1.98	PPBv #	100
4) CHLOROMETHANE	5.355	50	404184	1.54	PPBv #	100
5) FREON 114	5.461	85	1082523	1.93	PPBv #	100
6) VINYL CHLORIDE	5.597	62	413275	1.90	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.589	62	453365	2.18	PPBv #	100
8) 1,3-BUTADIENE	5.746	54	337522	1.81	PPBv #	100
9) BROMOMETHANE	6.041	94	338351	1.93	PPBv #	100
10) CHLOROETHANE	6.220	64	222777	1.97	PPBv #	100
11) ACETONE	6.825	58	230292	2.07	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.028	101	1198744	2.03	PPBv #	100
13) ETHANOL	6.310	45	127202	1.54	PPBv #	100
14) ACRYLONITRILE	5.743	53	238785	1.81	PPBv #	100
15) 1,1-DICHLOROETHENE	7.692	96	426855	2.24	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.690	96	476761	2.53	PPBv #	100
17) METHYLENE CHLORIDE	7.808	84	364067	2.38	PPBv #	100
18) FREON 113	8.085	101	671960	2.02	PPBv #	100
19) CARBON DISULFIDE	8.160	76	911655	2.33	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.811	96	310049	1.95	PPBv #	100
21) 1,1-DICHLOROETHANE	9.029	63	616967	2.00	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.022	63	681526	2.25	PPBv #	100
23) MTBE	9.080	73	793424	1.98	PPBv #	100
24) IPA	7.059	45	869562	2.09	PPBv #	100
25) 2-BUTANONE (MEK)	9.438	72	171159	2.11	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.940	96	326067	1.96	PPBv #	100
27) HEXANE	10.172	57	590405	1.90	PPBv #	100
28) ETHYL ACETATE	10.159	61	117148	2.14	PPBv #	100
29) CHLOROFORM	10.268	83	626442	1.98	PPBv #	100
30) TETRAHYDROFURAN	10.730	71	137489	2.08	PPBv #	100
31) 1,2-DICHLOROETHANE	11.107	62	449464	1.93	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.408	97	622045	1.91	PPBv #	100
33) BENZENE	11.943	78	1027598	1.99	PPBv	100
34) CARBON TETRACHLORIDE	12.121	119	600245	1.96	PPBv #	100

Quantitation Report (Not Reviewed)

Data Path : G:\Feb2011\Air4\020811\
Data File : C07326.D
Acq On : 8 Feb 2011 10:01 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 08 11:39:20 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

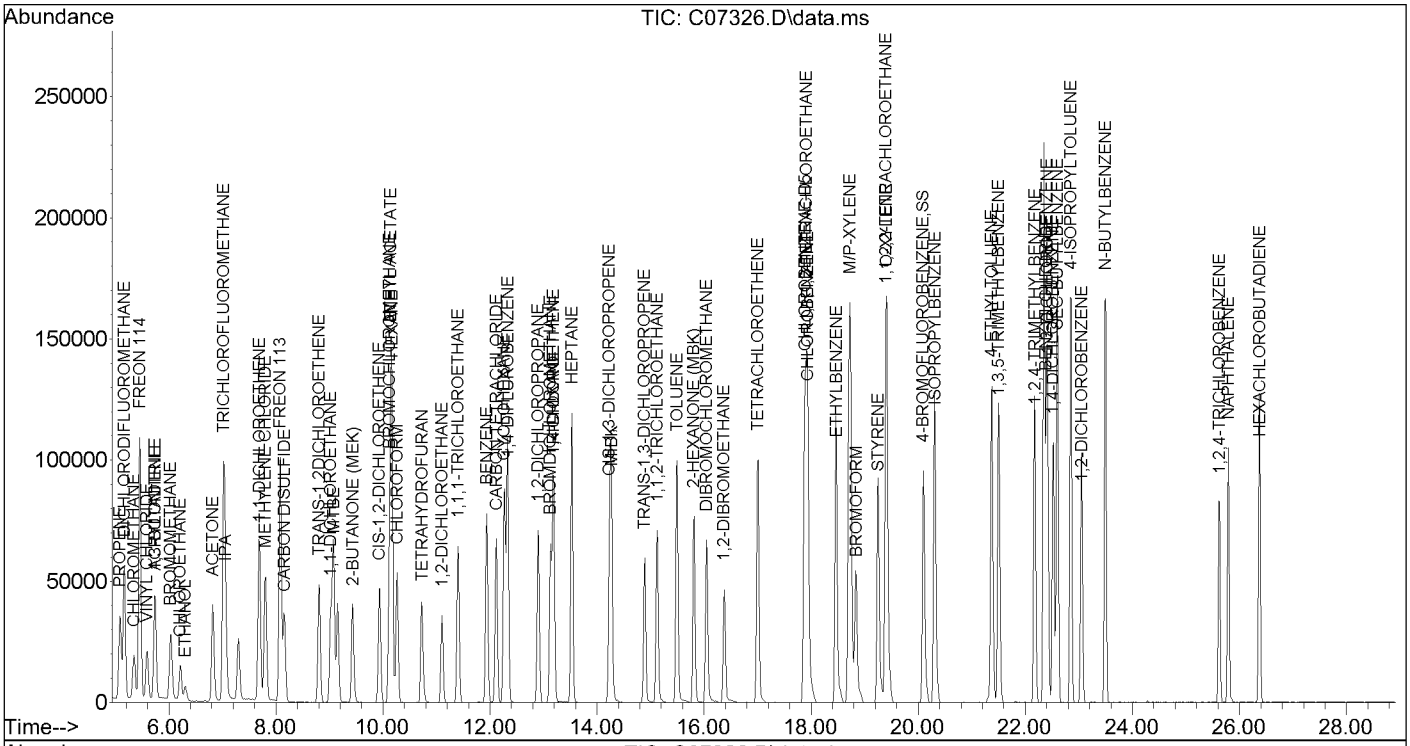
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.120	119	638860	2.14	PPBv	#	100
36) CYCLOHEXANE	12.272	56	654172	1.95	PPBv	#	100
38) 1,2-DICHLOROPROPANE	12.905	63	400520	1.98	PPBv	#	100
39) BROMDICHLOROMETHANE	13.136	83	660346	2.07	PPBv	#	100
40) TRICHLOROETHENE	13.190	95	424669	1.92	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.186	95	463996	2.11	PPBv	#	100
42) 1,4-DIOXANE	13.183	88	130240	1.55	PPBv	#	100
43) HEPTANE	13.534	57	378209	1.87	PPBv	#	100
44) MIBK	14.271	43	1041587	1.93	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.239	75	566419	2.05	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.894	75	500570	2.12	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.127	83	338514	2.07	PPBv	#	100
48) TOLUENE	15.497	91	1247843	1.94	PPBv	#	100
49) 2-HEXANONE (MBK)	15.814	58	440338	2.06	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.051	129	621039	2.07	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.382	107	582291	2.03	PPBv	#	100
52) TETRACHLOROETHENE	17.008	166	495232	1.78	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.008	166	541126	1.97	PPBv	#	100
55) CHLOROBENZENE	17.942	112	896196	1.88	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.915	135	121200	1.90	PPBv	#	100
57) ETHYLBENZENE	18.470	91	1565857	1.96	PPBv	#	100
58) M/P-XYLENE	18.729	106	1216031	3.82	PPBv	#	100
59) BROMOFORM	18.843	173	490145	2.13	PPBv	#	100
60) STYRENE	19.254	104	839453	2.03	PPBv	#	100
61) O-XYLENE	19.416	106	588861	1.97	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.398	83	777643	2.04	PPBv	#	100
64) ISOPROPYLBENZENE	20.312	105	1568795	1.93	PPBv	#	100
65) 4-ETHYLTOLUENE	21.377	105	1595815	1.86	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.508	105	1287196	1.89	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.180	105	1198385	1.83	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.418	146	770994	1.85	PPBv	#	100
69) BENZYL CHLORIDE	22.394	91	812210	2.06	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.526	146	757310	1.87	PPBv	#	100
71) SEC-BUTYLBENZENE	22.603	105	1946399	1.98	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.855	119	1592764	1.89	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.055	146	638848	1.74	PPBv	#	100
74) N-BUTYLBENZENE	23.500	91	1465715	1.95	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.629	180	378233	1.76	PPBv	#	100
76) NAPHTHALENE	25.798	128	1177374	2.16	PPBv		100
77) HEXACHLOROBUTADIENE	26.380	225	299207	1.56	PPBv		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : G:\Feb2011\Air4\020811\
Data File : C07326.D
Acq On : 8 Feb 2011 10:01 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 08 11:39:20 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020811\
Data File : C07327.D
Acq On : 8 Feb 2011 11:49 am
Operator : KRL
Sample : mb/can check 0470 Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 08 13:25:21 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.129	128	257318	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.333	114	1382028	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.879	54	288060	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.102	95	637859	9.45	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 94.50%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) VINYL CHLORIDE (SIM)	0.000		0	N.D.		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	0.000		0	N.D.		
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16) 1,1-DICHLOROETHENE (SIM)	0.000		0	N.D.		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22) 1,1-DICHLOROETHANE (SIM)	0.000		0	N.D.		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	0.000		0	N.D.		
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020811\
Data File : C07327.D
Acq On : 8 Feb 2011 11:49 am
Operator : KRL
Sample : mb/can check 0470 Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 08 13:25:21 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

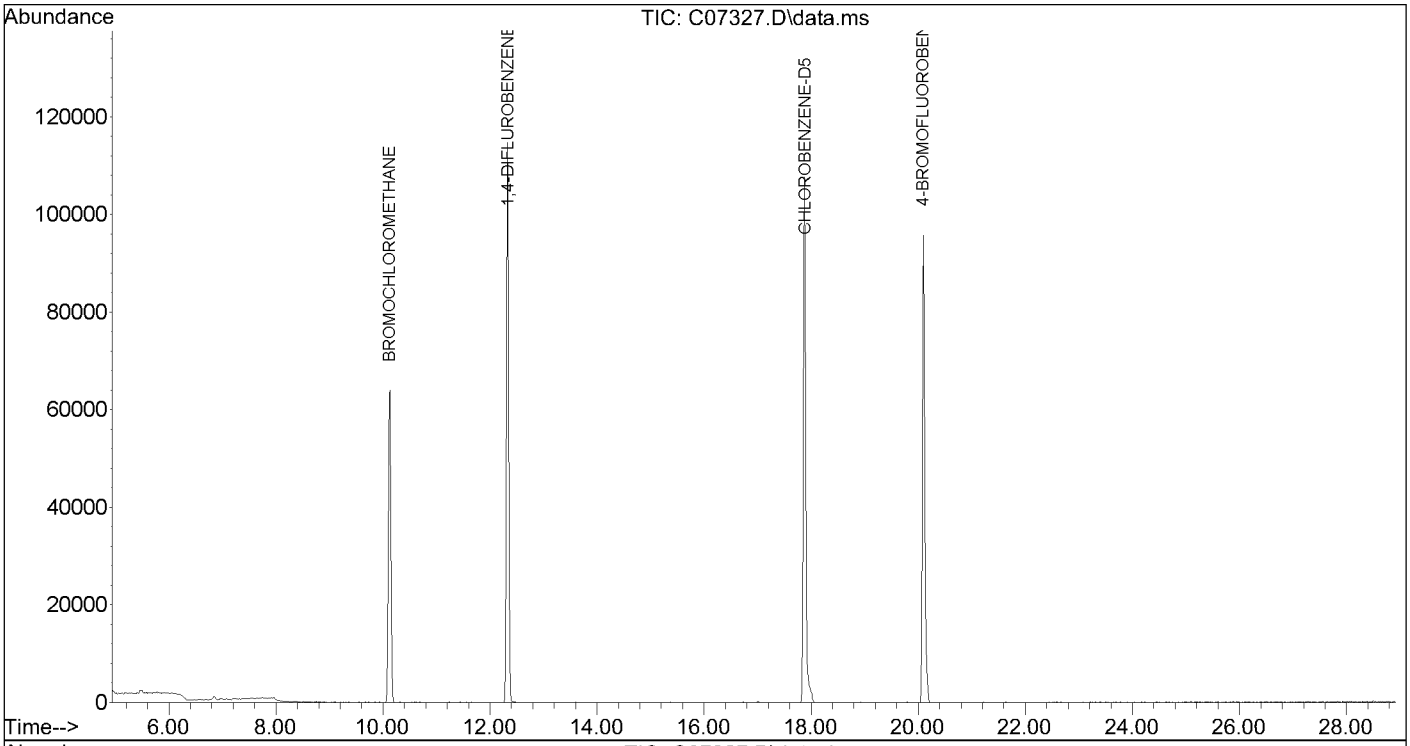
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	0.000		0	N.D.		
36) CYCLOHEXANE	0.000		0	N.D.	d	
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.		
39) BROMDICHLOROMETHANE	0.000		0	N.D.		
40) TRICHLOROETHENE	0.000		0	N.D.		
41) TRICHLOROETHENE (SIM)	0.000		0	N.D.		
42) 1,4-DIOXANE	0.000		0	N.D.		
43) HEPTANE	0.000		0	N.D.		
44) MIBK	0.000		0	N.D.		
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
48) TOLUENE	0.000		0	N.D.		
49) 2-HEXANONE (MBK)	0.000		0	N.D.		
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.		
51) 1,2-DIBROMOETHANE	0.000		0	N.D.		
52) TETRACHLOROETHENE	0.000		0	N.D.		
53) TETRACHLOROETHENE (SIM)	0.000		0	N.D.		
55) CHLOROBENZENE	0.000		0	N.D.		
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
57) ETHYLBENZENE	0.000		0	N.D.		
58) M/P-XYLENE	0.000		0	N.D.		
59) BROMOFORM	0.000		0	N.D.		
60) STYRENE	0.000		0	N.D.		
61) O-XYLENE	0.000		0	N.D.		
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.		
64) ISOPROPYLBENZENE	0.000		0	N.D.		
65) 4-ETHYLTOLUENE	0.000		0	N.D.		
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.		
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.		
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.		
69) BENZYL CHLORIDE	0.000		0	N.D.		
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.		
71) SEC-BUTYLBENZENE	0.000		0	N.D.		
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.		
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.		
74) N-BUTYLBENZENE	0.000		0	N.D.		
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.		
76) NAPHTHALENE	0.000		0	N.D.		
77) HEXACHLOROBUTADIENE	0.000		0	N.D.		

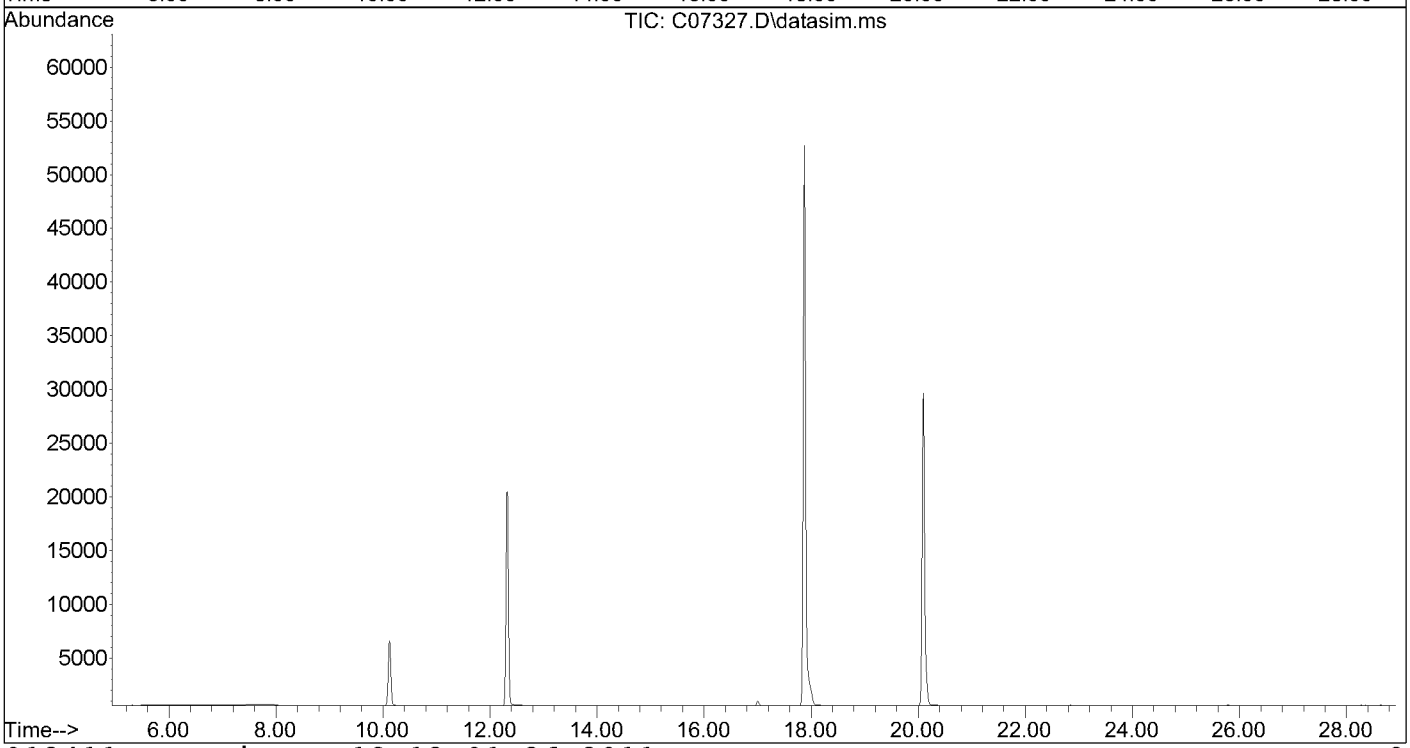
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\020811\
Data File : C07327.D
Acq On : 8 Feb 2011 11:49 am
Operator : KRL
Sample : mb/can check 0470 Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 08 13:25:21 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07339.D
Acq On : 16 Feb 2011 10:47 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 16 12:49:44 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.134	128	272371	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.336	114	1447897	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.880	54	299694	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.104	95	724451	10.32	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 103.20%#			
Target Compounds						Qvalue
2) PROPENE	5.098	42	271928	1.93	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.179	85	937925	1.74	PPBv #	100
4) CHLOROMETHANE	5.363	50	503097	1.72	PPBv #	100
5) FREON 114	5.469	85	1058906	1.70	PPBv #	100
6) VINYL CHLORIDE	5.604	62	414246	1.72	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.597	62	452923	1.96	PPBv #	100
8) 1,3-BUTADIENE	5.752	54	341228	1.64	PPBv #	100
9) BROMOMETHANE	6.048	94	329767	1.69	PPBv #	100
10) CHLOROETHANE	6.228	64	222990	1.77	PPBv #	100
11) ACETONE	6.835	58	249505	2.02	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.036	101	1022768	1.56	PPBv #	100
13) ETHANOL	6.327	45	145506	1.58	PPBv #	100
14) ACRYLONITRILE	5.754	53	235010	1.60	PPBv #	100
15) 1,1-DICHLOROETHENE	7.701	96	384959	1.82	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.698	96	417112	1.99	PPBv #	100
17) METHYLENE CHLORIDE	7.815	84	333666	1.97	PPBv #	100
18) FREON 113	8.094	101	660122	1.78	PPBv #	100
19) CARBON DISULFIDE	8.168	76	940180	2.16	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.816	96	302605	1.71	PPBv #	100
21) 1,1-DICHLOROETHANE	9.034	63	603339	1.76	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.027	63	673916	2.00	PPBv #	100
23) MTBE	9.086	73	815494	1.83	PPBv #	100
24) IPA	7.078	45	744893	1.61	PPBv #	100
25) 2-BUTANONE (MEK)	9.444	72	179523	1.99	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.945	96	328230	1.77	PPBv #	100
27) HEXANE	10.177	57	603373	1.74	PPBv #	100
28) ETHYL ACETATE	10.162	61	123637	2.03	PPBv #	100
29) CHLOROFORM	10.271	83	615921	1.75	PPBv #	100
30) TETRAHYDROFURAN	10.733	71	143186	1.95	PPBv #	100
31) 1,2-DICHLOROETHANE	11.111	62	428653	1.65	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.411	97	614926	1.70	PPBv #	100
33) BENZENE	11.946	78	1023648	1.78	PPBv	100
34) CARBON TETRACHLORIDE	12.123	119	570867	1.67	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07339.D
Acq On : 16 Feb 2011 10:47 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 16 12:49:44 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

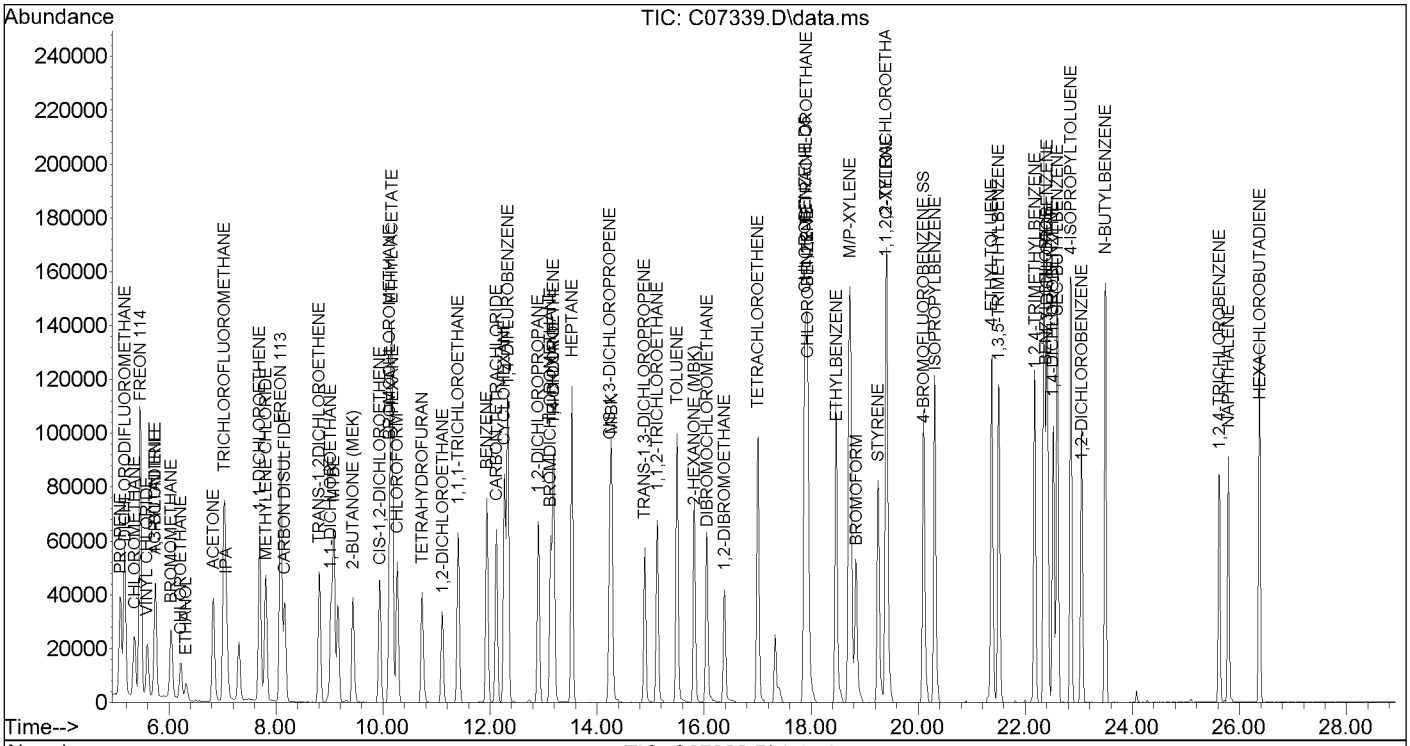
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.122	119	613541	1.85	PPBv	#	100
36) CYCLOHEXANE	12.275	56	645645	1.73	PPBv	#	100
38) 1,2-DICHLOROPROPANE	12.908	63	381930	1.73	PPBv	#	100
39) BROMDICHLOROMETHANE	13.138	83	633053	1.81	PPBv	#	100
40) TRICHLOROETHENE	13.192	95	414679	1.71	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.188	95	453759	1.88	PPBv	#	100
42) 1,4-DIOXANE	13.189	88	144832	1.58	PPBv	#	100
43) HEPTANE	13.535	57	375576	1.70	PPBv	#	100
44) MIBK	14.276	43	992350	1.68	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.242	75	554947	1.83	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.896	75	482302	1.86	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.128	83	320458	1.79	PPBv	#	100
48) TOLUENE	15.499	91	1204508	1.71	PPBv	#	100
49) 2-HEXANONE (MBK)	15.821	58	429861	1.84	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.054	129	599165	1.83	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.385	107	546623	1.74	PPBv	#	100
52) TETRACHLOROETHENE	17.008	166	472488	1.55	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.009	166	522762	1.74	PPBv	#	100
55) CHLOROBENZENE	17.943	112	859844	1.67	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.915	135	116678	1.70	PPBv	#	100
57) ETHYLBENZENE	18.470	91	1473142	1.71	PPBv	#	100
58) M/P-XYLENE	18.728	106	1171352	3.40	PPBv	#	100
59) BROMOFORM	18.844	173	468264	1.89	PPBv	#	100
60) STYRENE	19.257	104	766253	1.71	PPBv	#	100
61) O-XYLENE	19.417	106	562039	1.74	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.401	83	755650	1.84	PPBv	#	100
64) ISOPROPYLBENZENE	20.313	105	1468355	1.67	PPBv	#	100
65) 4-ETHYLTOLUENE	21.377	105	1541092	1.67	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.509	105	1226960	1.67	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.180	105	1169267	1.65	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.419	146	729861	1.63	PPBv	#	100
69) BENZYL CHLORIDE	22.394	91	763189	1.79	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.527	146	704276	1.61	PPBv	#	100
71) SEC-BUTYLBENZENE	22.604	105	1766625	1.66	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.855	119	1455404	1.60	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.055	146	638079	1.61	PPBv	#	100
74) N-BUTYLBENZENE	23.500	91	1349711	1.67	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.629	180	382871	1.66	PPBv	#	100
76) NAPHTHALENE	25.799	128	1023841	1.74	PPBv		100
77) HEXACHLOROBUTADIENE	26.379	225	323989	1.57	PPBv		100

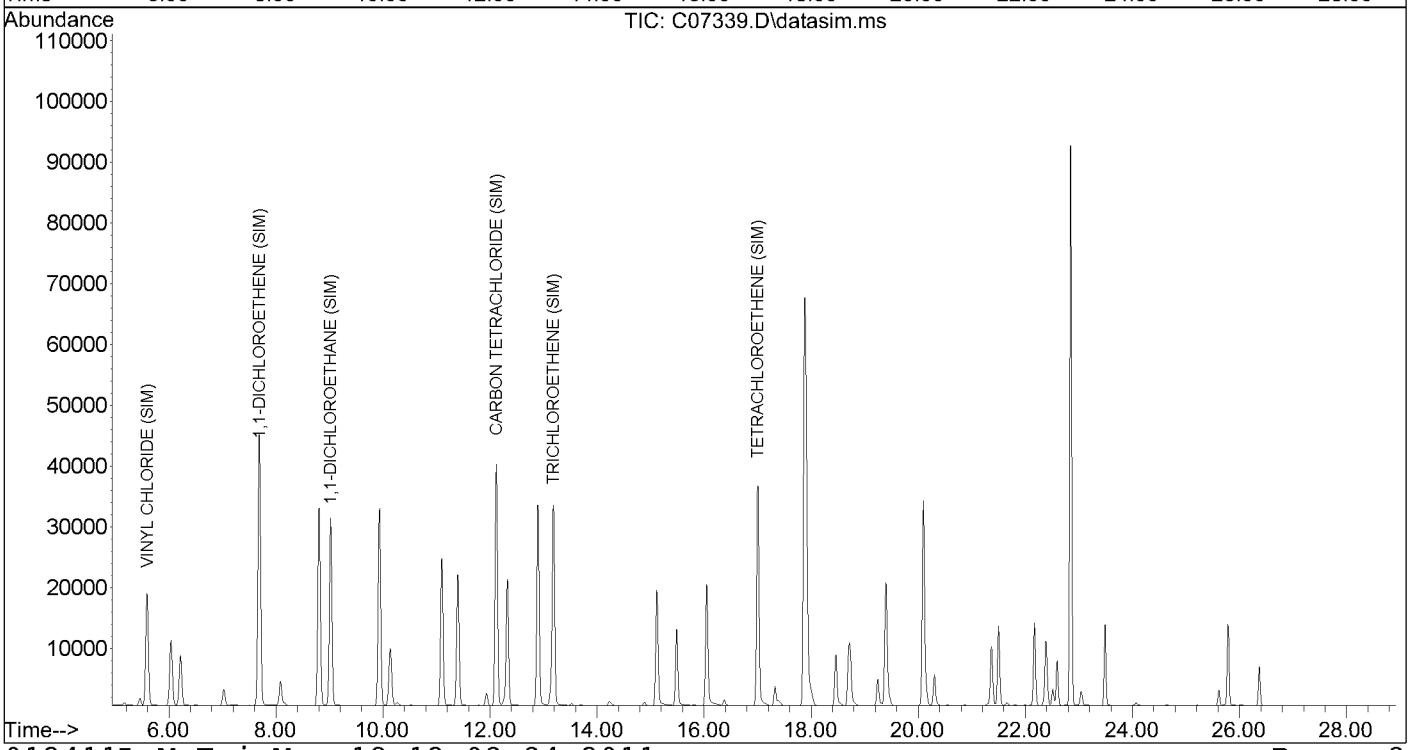
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07339.D
Acq On : 16 Feb 2011 10:47 am
Operator : KRL
Sample : 2ppbv to-15ccc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 16 12:49:44 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07340.D
Acq On : 16 Feb 2011 11:30 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 18 12:02:44 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.134	128	234614	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.337	114	1246000	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.882	54	255696	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.106	95	629163	10.50	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 105.00%#			
Target Compounds						Qvalue
2) PROPENE	5.101	42	254517	2.10	PPBv #	100
3) DICHLORODIFLUOROMETHANE	5.179	85	942909	2.03	PPBv #	100
4) CHLOROMETHANE	5.361	50	401604	1.59	PPBv #	100
5) FREON 114	5.470	85	1069613	1.99	PPBv #	100
6) VINYL CHLORIDE	5.603	62	422912	2.03	PPBv #	100
7] VINYL CHLORIDE (SIM)	5.597	62	456367	2.30	PPBv #	100
8) 1,3-BUTADIENE	5.753	54	338036	1.89	PPBv #	100
9) BROMOMETHANE	6.048	94	351126	2.09	PPBv #	100
10) CHLOROETHANE	6.227	64	219900	2.03	PPBv #	100
11) ACETONE	6.836	58	215963	2.03	PPBv #	100
12) TRICHLOROFLUOROMETHANE	7.036	101	1005057	1.78	PPBv #	100
13) ETHANOL	6.335	45	114058	1.44	PPBv #	100
14) ACRYLONITRILE	5.753	53	235985	1.87	PPBv #	100
15) 1,1-DICHLOROETHENE	7.702	96	374263	2.05	PPBv #	100
16] 1,1-DICHLOROETHENE (SIM)	7.699	96	415535	2.30	PPBv #	100
17) METHYLENE CHLORIDE	7.816	84	324479	2.22	PPBv #	100
18) FREON 113	8.095	101	682853	2.14	PPBv #	100
19) CARBON DISULFIDE	8.168	76	948243	2.53	PPBv	100
20) TRANS-1,2DICHLOROETHENE	8.820	96	323291	2.13	PPBv #	100
21) 1,1-DICHLOROETHANE	9.035	63	638722	2.16	PPBv #	100
22] 1,1-DICHLOROETHANE (SIM)	9.029	63	705715	2.44	PPBv #	100
23) MTBE	9.088	73	834003	2.18	PPBv #	100
24) IPA	7.084	45	762932	1.91	PPBv #	100
25) 2-BUTANONE (MEK)	9.445	72	184997	2.39	PPBv #	100
26) CIS-1,2-DICHLOROETHENE	9.946	96	341110	2.14	PPBv #	100
27) HEXANE	10.177	57	620220	2.08	PPBv #	100
28) ETHYL ACETATE	10.164	61	127398	2.43	PPBv #	100
29) CHLOROFORM	10.271	83	666794	2.20	PPBv #	100
30) TETRAHYDROFURAN	10.737	71	151533	2.39	PPBv #	100
31) 1,2-DICHLOROETHANE	11.114	62	464188	2.08	PPBv #	100
32) 1,1,1-TRICHLOROETHANE	11.412	97	647077	2.08	PPBv #	100
33) BENZENE	11.947	78	1077219	2.18	PPBv	100
34) CARBON TETRACHLORIDE	12.124	119	632711	2.15	PPBv #	100

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07340.D
Acq On : 16 Feb 2011 11:30 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 18 12:02:44 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

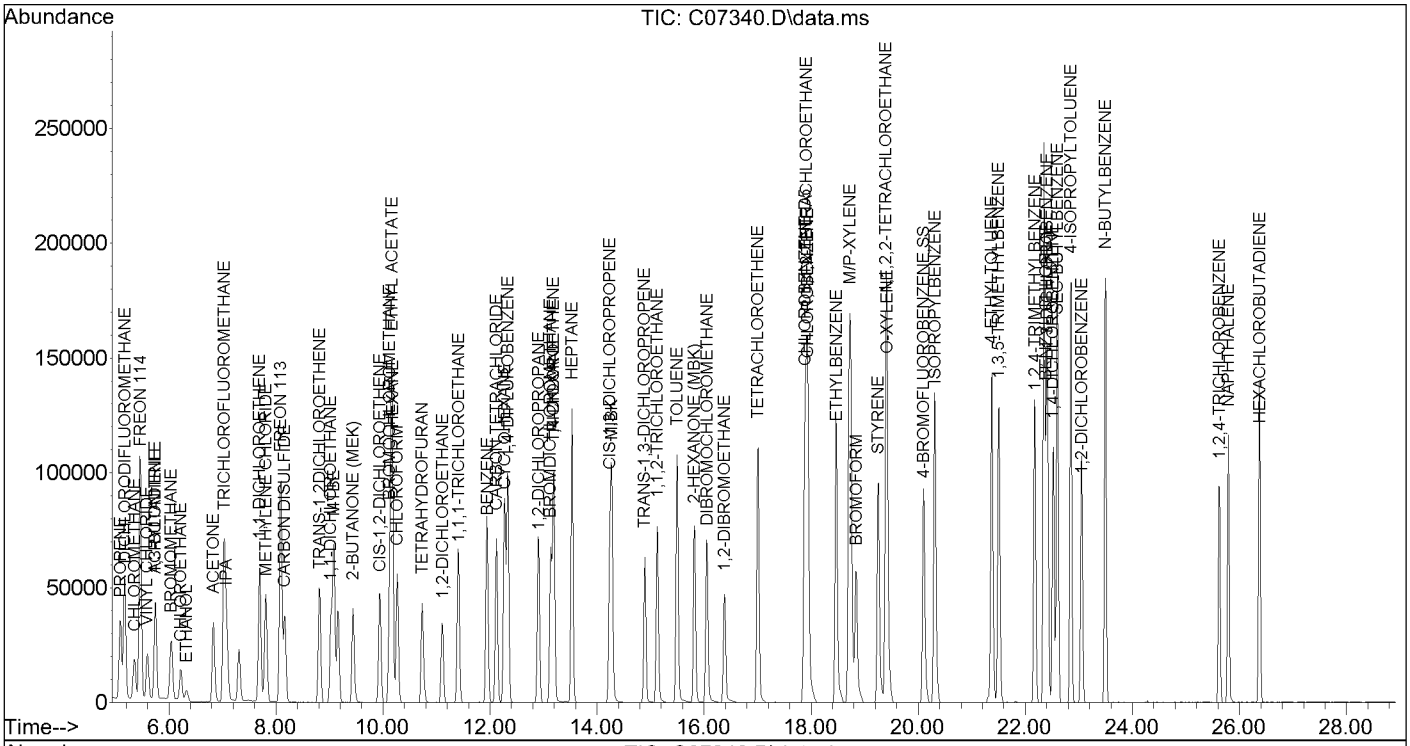
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35] CARBON TETRACHLORIDE (...	12.124	119	669969	2.34	PPBv	#	100
36) CYCLOHEXANE	12.277	56	666476	2.07	PPBv	#	100
38) 1,2-DICHLOROPROPANE	12.909	63	414398	2.18	PPBv	#	100
39) BROMDICHLOROMETHANE	13.139	83	690232	2.30	PPBv	#	100
40) TRICHLOROETHENE	13.193	95	444904	2.14	PPBv	#	100
41] TRICHLOROETHENE (SIM)	13.190	95	489826	2.37	PPBv	#	100
42) 1,4-DIOXANE	13.190	88	172026m	2.18	PPBv		
43) HEPTANE	13.536	57	404931	2.13	PPBv	#	100
44) MIBK	14.279	43	1062098	2.09	PPBv	#	100
45) CIS-1,3-DICHLOROPROPENE	14.242	75	599619	2.30	PPBv	#	100
46) TRANS-1,3-DICHLOROPROPENE	14.898	75	537474	2.41	PPBv	#	100
47) 1,1,2-TRICHLOROETHANE	15.129	83	353204	2.30	PPBv	#	100
48) TOLUENE	15.500	91	1294390	2.14	PPBv	#	100
49) 2-HEXANONE (MBK)	15.823	58	453079	2.25	PPBv	#	100
50) DIBROMOCHLOROMETHANE	16.056	129	659872	2.34	PPBv	#	100
51) 1,2-DIBROMOETHANE	16.386	107	613064	2.27	PPBv	#	100
52) TETRACHLOROETHENE	17.010	166	528155	2.01	PPBv	#	100
53] TETRACHLOROETHENE (SIM)	17.010	166	583508	2.26	PPBv	#	100
55) CHLOROBENZENE	17.944	112	957870	2.18	PPBv	#	100
56) 1,1,1,2-TETRACHLOROETHANE	17.917	135	135326	2.31	PPBv	#	100
57) ETHYLBENZENE	18.471	91	1641917	2.23	PPBv	#	100
58) M/P-XYLENE	18.729	106	1294776	4.41	PPBv	#	100
59) BROMOFORM	18.846	173	523822	2.47	PPBv	#	100
60) STYRENE	19.258	104	899240	2.36	PPBv	#	100
61) O-XYLENE	19.419	106	616283	2.23	PPBv	#	100
62) 1,1,2,2-TETRACHLOROETHANE	19.401	83	822274	2.35	PPBv	#	100
64) ISOPROPYLBENZENE	20.314	105	1694545	2.26	PPBv	#	100
65) 4-ETHYLTOLUENE	21.378	105	1701751	2.16	PPBv	#	100
66) 1,3,5-TRIMETHYLBENZENE	21.510	105	1356965	2.16	PPBv	#	100
67) 1,2,4-TRIMETHYLBENZENE	22.181	105	1261789	2.09	PPBv	#	100
68) 1,3-DICHLOROBENZENE	22.420	146	783320	2.05	PPBv	#	100
69) BENZYL CHLORIDE	22.395	91	871641	2.40	PPBv	#	100
70) 1,4-DICHLOROBENZENE	22.527	146	777518	2.08	PPBv	#	100
71) SEC-BUTYLBENZENE	22.604	105	2052478	2.26	PPBv	#	100
72) 4-ISOPROPYLTOLUENE	22.856	119	1669096	2.15	PPBv	#	100
73) 1,2-DICHLOROBENZENE	23.057	146	671510	1.99	PPBv	#	100
74) N-BUTYLBENZENE	23.501	91	1577122	2.28	PPBv	#	100
75) 1,2,4-TRICHLOROBENZENE	25.629	180	431303	2.19	PPBv	#	100
76) NAPHTHALENE	25.799	128	1315848	2.62	PPBv		100
77) HEXACHLOROBUTADIENE	26.380	225	337352	1.91	PPBv		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07340.D
Acq On : 16 Feb 2011 11:30 am
Operator : KRL
Sample : 2ppbv to-15qc Inst : Air 4
Misc : 1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 18 12:02:44 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07343.D
Acq On : 16 Feb 2011 4:49 pm
Operator : KRL
Sample : can check 7641 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 17 09:25:53 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.134	128	174784	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.336	114	952556	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.878	54	200754	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.103	95	424506	9.02	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 90.20%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) VINYL CHLORIDE (SIM)	0.000		0	N.D.		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	0.000		0	N.D.		
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16) 1,1-DICHLOROETHENE (SIM)	0.000		0	N.D.		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22) 1,1-DICHLOROETHANE (SIM)	0.000		0	N.D.		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	0.000		0	N.D.		
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07343.D
Acq On : 16 Feb 2011 4:49 pm
Operator : KRL
Sample : can check 7641 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 17 09:25:53 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

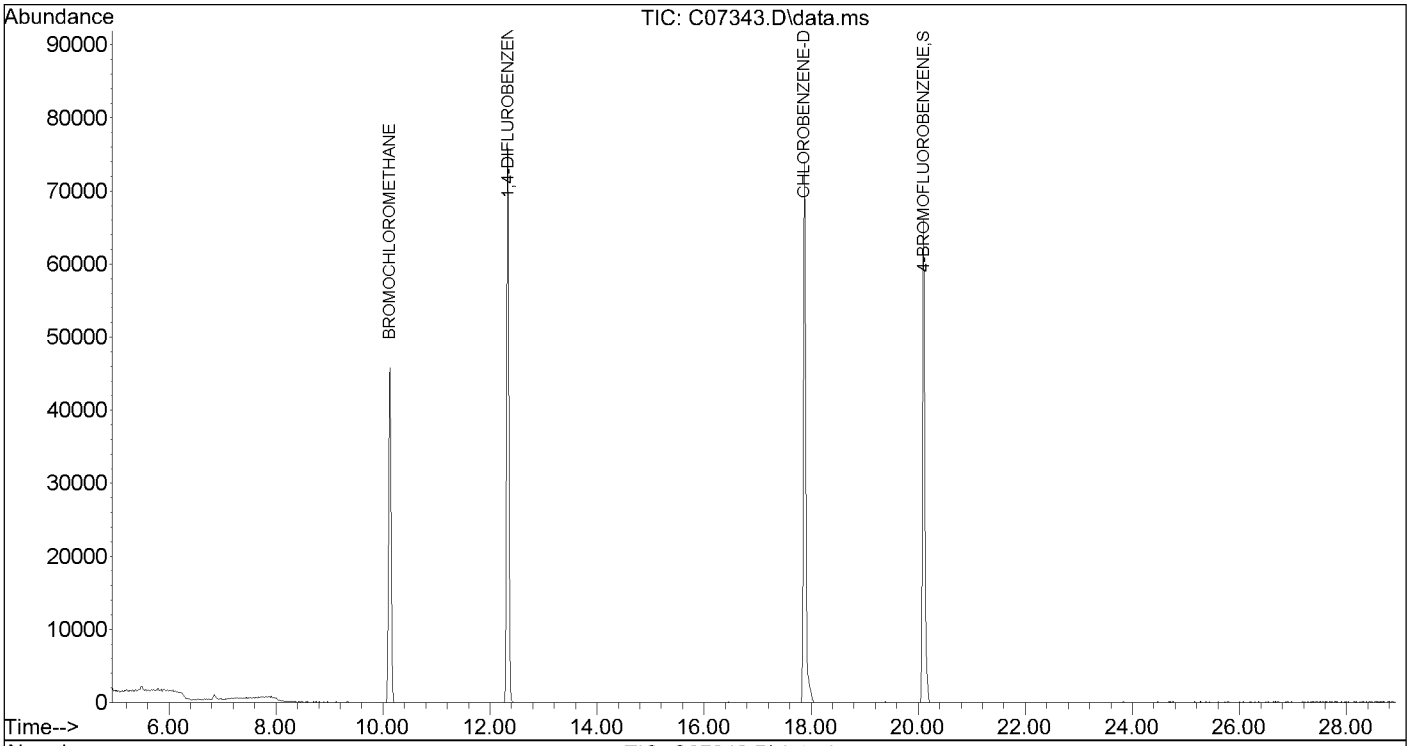
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	0.000		0	N.D.		
36) CYCLOHEXANE	0.000		0	N.D.	d	
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.		
39) BROMDICHLOROMETHANE	0.000		0	N.D.		
40) TRICHLOROETHENE	0.000		0	N.D.		
41) TRICHLOROETHENE (SIM)	0.000		0	N.D.		
42) 1,4-DIOXANE	0.000		0	N.D.		
43) HEPTANE	0.000		0	N.D.		
44) MIBK	0.000		0	N.D.		
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
48) TOLUENE	0.000		0	N.D.		
49) 2-HEXANONE (MBK)	0.000		0	N.D.		
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.		
51) 1,2-DIBROMOETHANE	0.000		0	N.D.		
52) TETRACHLOROETHENE	0.000		0	N.D.		
53) TETRACHLOROETHENE (SIM)	0.000		0	N.D.		
55) CHLOROBENZENE	0.000		0	N.D.		
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
57) ETHYLBENZENE	0.000		0	N.D.		
58) M/P-XYLENE	0.000		0	N.D.		
59) BROMOFORM	0.000		0	N.D.		
60) STYRENE	0.000		0	N.D.		
61) O-XYLENE	0.000		0	N.D.		
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.		
64) ISOPROPYLBENZENE	0.000		0	N.D.		
65) 4-ETHYLTOLUENE	0.000		0	N.D.		
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.		
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.		
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.		
69) BENZYL CHLORIDE	0.000		0	N.D.		
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.		
71) SEC-BUTYLBENZENE	0.000		0	N.D.		
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.		
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.		
74) N-BUTYLBENZENE	0.000		0	N.D.		
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.		
76) NAPHTHALENE	0.000		0	N.D.		
77) HEXACHLOROBUTADIENE	0.000		0	N.D.		

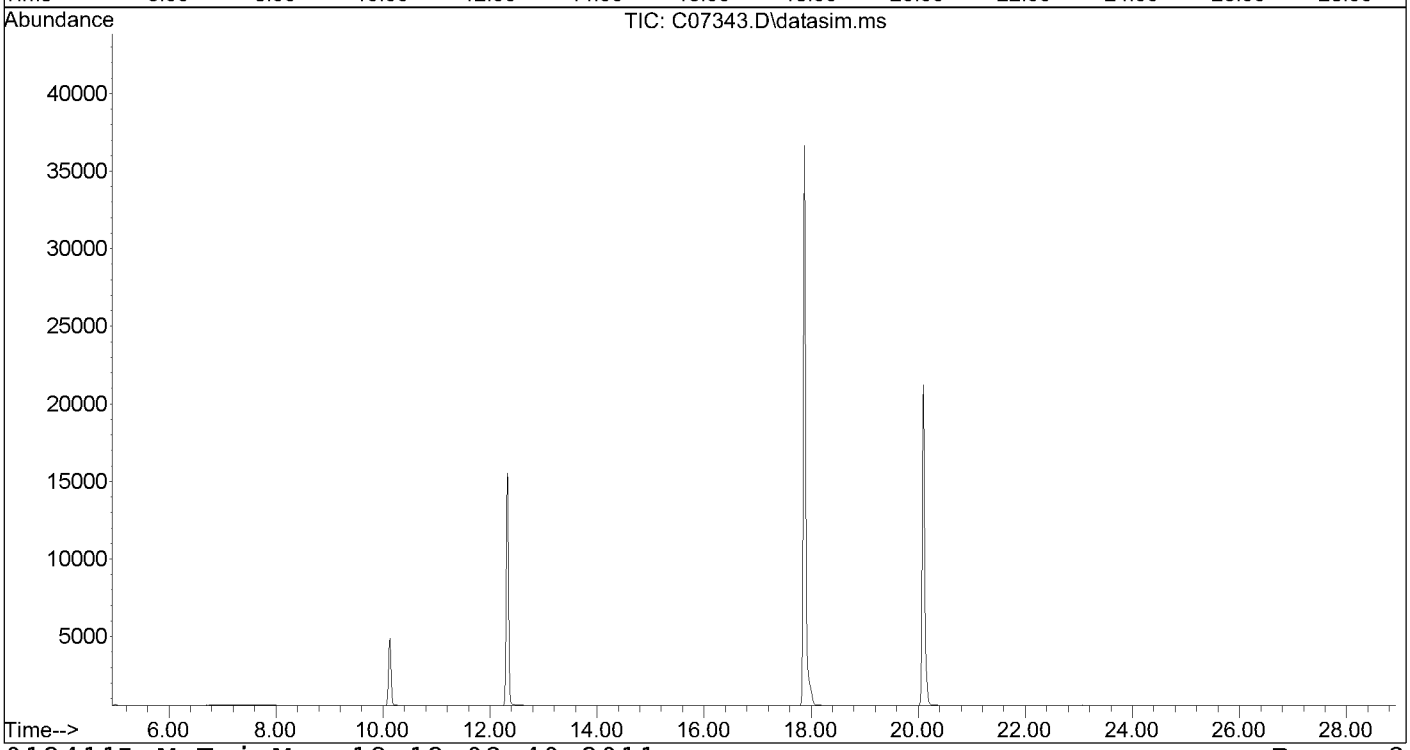
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07343.D
Acq On : 16 Feb 2011 4:49 pm
Operator : KRL
Sample : can check 7641 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 17 09:25:53 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07344.D
Acq On : 16 Feb 2011 5:42 pm
Operator : KRL
Sample : can check 0471 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 17 09:26:14 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.136	128	164934	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.337	114	879457	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.880	54	190515	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.104	95	402500	9.02	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 90.20%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) VINYL CHLORIDE (SIM)	0.000		0	N.D.		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	0.000		0	N.D.		
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16) 1,1-DICHLOROETHENE (SIM)	0.000		0	N.D.		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22) 1,1-DICHLOROETHANE (SIM)	0.000		0	N.D.		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	0.000		0	N.D.		
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07344.D
Acq On : 16 Feb 2011 5:42 pm
Operator : KRL
Sample : can check 0471 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 17 09:26:14 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

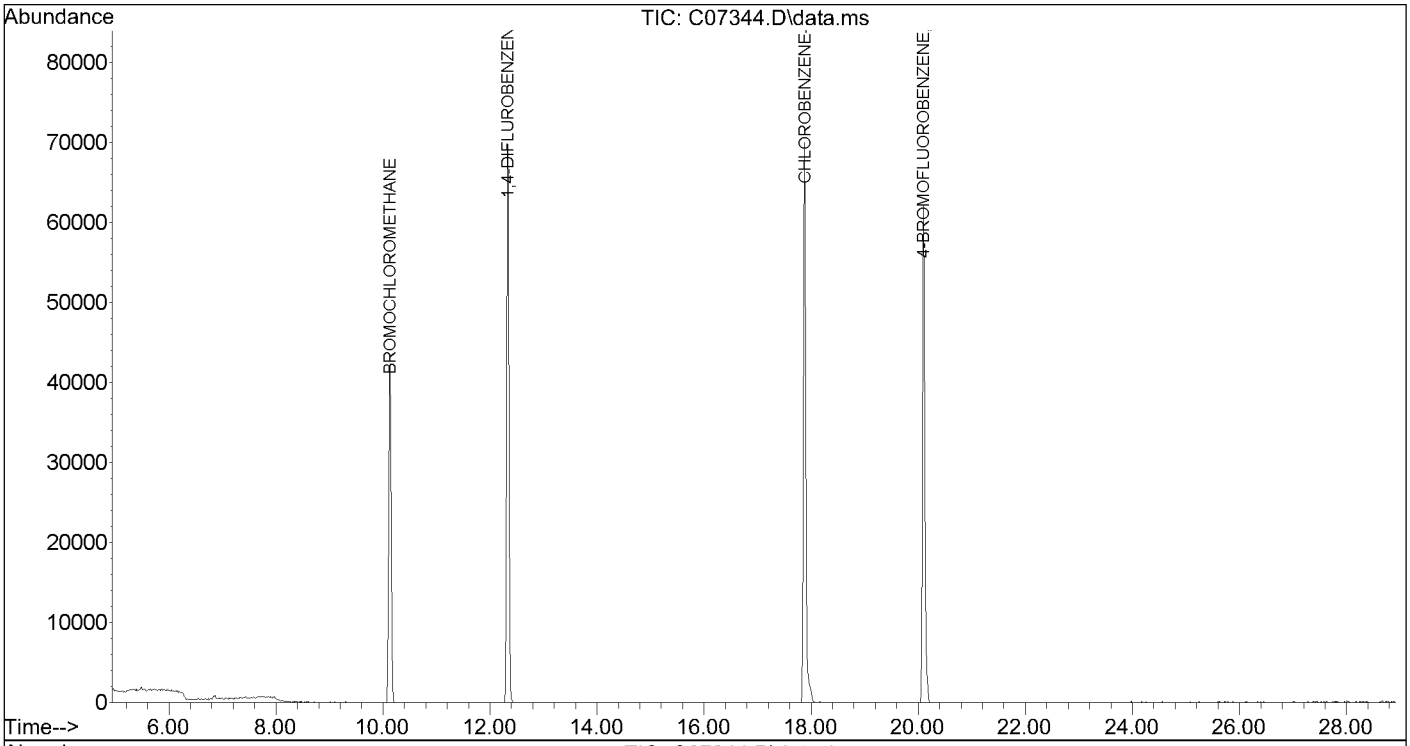
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	0.000		0	N.D.		
36) CYCLOHEXANE	0.000		0	N.D.	d	
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.		
39) BROMDICHLOROMETHANE	0.000		0	N.D.		
40) TRICHLOROETHENE	0.000		0	N.D.		
41) TRICHLOROETHENE (SIM)	0.000		0	N.D.		
42) 1,4-DIOXANE	0.000		0	N.D.		
43) HEPTANE	0.000		0	N.D.		
44) MIBK	0.000		0	N.D.		
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
48) TOLUENE	0.000		0	N.D.		
49) 2-HEXANONE (MBK)	0.000		0	N.D.		
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.		
51) 1,2-DIBROMOETHANE	0.000		0	N.D.		
52) TETRACHLOROETHENE	0.000		0	N.D.		
53) TETRACHLOROETHENE (SIM)	0.000		0	N.D.		
55) CHLOROBENZENE	0.000		0	N.D.		
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
57) ETHYLBENZENE	0.000		0	N.D.		
58) M/P-XYLENE	0.000		0	N.D.		
59) BROMOFORM	0.000		0	N.D.		
60) STYRENE	0.000		0	N.D.		
61) O-XYLENE	0.000		0	N.D.		
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.		
64) ISOPROPYLBENZENE	0.000		0	N.D.		
65) 4-ETHYLTOLUENE	0.000		0	N.D.		
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.		
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.		
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.		
69) BENZYL CHLORIDE	0.000		0	N.D.		
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.		
71) SEC-BUTYLBENZENE	0.000		0	N.D.		
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.		
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.		
74) N-BUTYLBENZENE	0.000		0	N.D.		
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.		
76) NAPHTHALENE	0.000		0	N.D.		
77) HEXACHLOROBUTADIENE	0.000		0	N.D.		

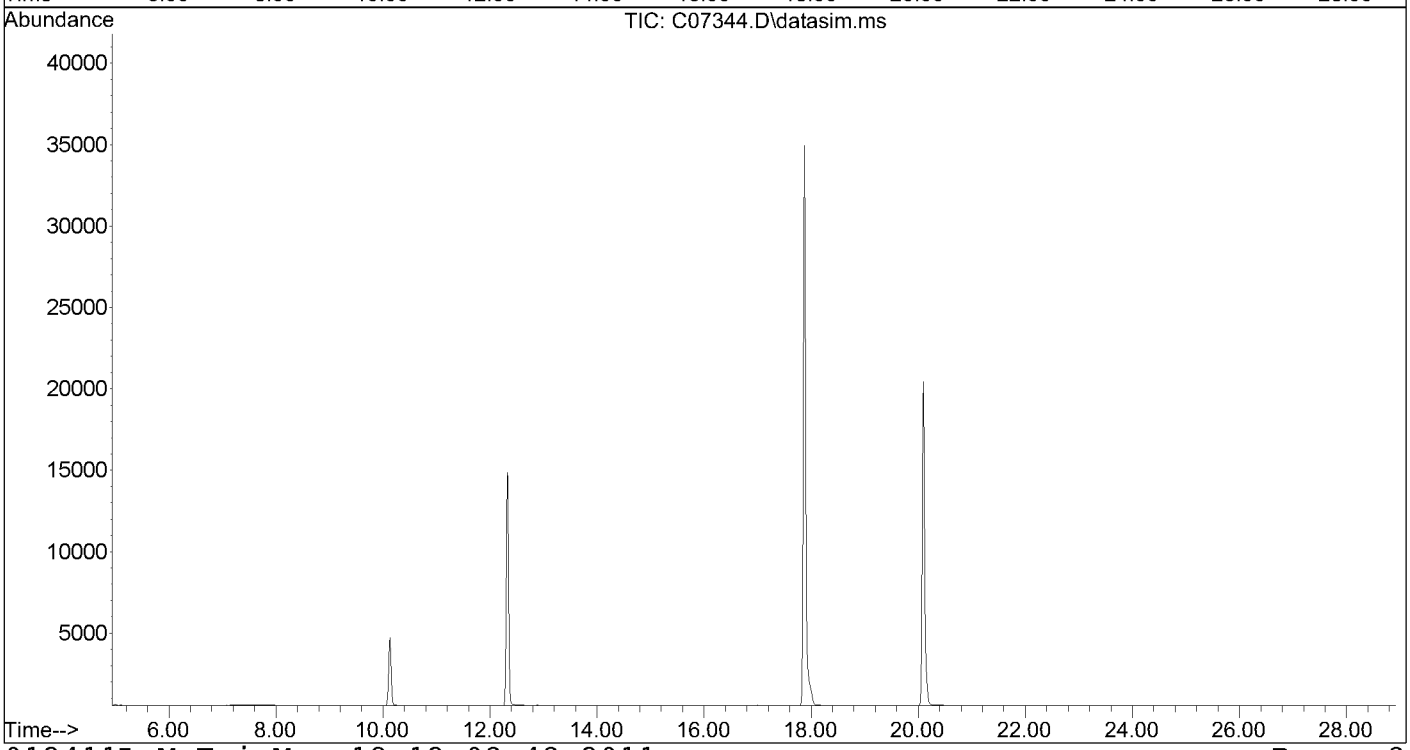
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07344.D
Acq On : 16 Feb 2011 5:42 pm
Operator : KRL
Sample : can check 0471 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 17 09:26:14 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07345.D
Acq On : 16 Feb 2011 6:36 pm
Operator : KRL
Sample : can check 1346 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 17 09:26:40 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.136	128	156157	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.338	114	850891	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.881	54	194279	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.105	95	388713	8.54	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 85.40%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) VINYL CHLORIDE (SIM)	0.000		0	N.D.		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	0.000		0	N.D.		
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16) 1,1-DICHLOROETHENE (SIM)	0.000		0	N.D.		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22) 1,1-DICHLOROETHANE (SIM)	0.000		0	N.D.		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	0.000		0	N.D.		
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07345.D
Acq On : 16 Feb 2011 6:36 pm
Operator : KRL
Sample : can check 1346 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 17 09:26:40 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

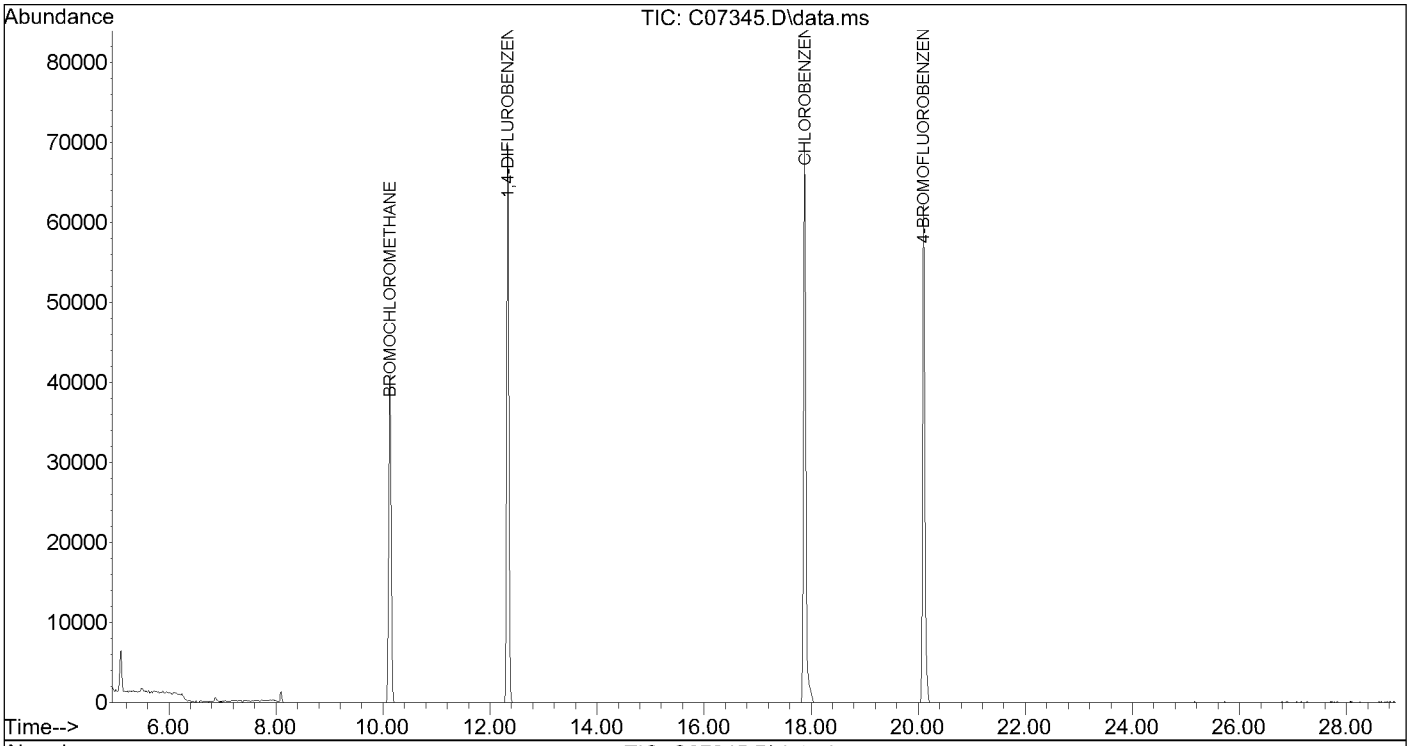
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	0.000		0	N.D.		
36) CYCLOHEXANE	0.000		0	N.D.	d	
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.		
39) BROMDICHLOROMETHANE	0.000		0	N.D.		
40) TRICHLOROETHENE	0.000		0	N.D.		
41) TRICHLOROETHENE (SIM)	0.000		0	N.D.		
42) 1,4-DIOXANE	0.000		0	N.D.		
43) HEPTANE	0.000		0	N.D.		
44) MIBK	0.000		0	N.D.		
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
48) TOLUENE	0.000		0	N.D.		
49) 2-HEXANONE (MBK)	0.000		0	N.D.		
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.		
51) 1,2-DIBROMOETHANE	0.000		0	N.D.		
52) TETRACHLOROETHENE	0.000		0	N.D.		
53) TETRACHLOROETHENE (SIM)	0.000		0	N.D.		
55) CHLOROBENZENE	0.000		0	N.D.		
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
57) ETHYLBENZENE	0.000		0	N.D.		
58) M/P-XYLENE	0.000		0	N.D.		
59) BROMOFORM	0.000		0	N.D.		
60) STYRENE	0.000		0	N.D.		
61) O-XYLENE	0.000		0	N.D.		
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.		
64) ISOPROPYLBENZENE	0.000		0	N.D.		
65) 4-ETHYLTOLUENE	0.000		0	N.D.		
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.		
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.		
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.		
69) BENZYL CHLORIDE	0.000		0	N.D.		
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.		
71) SEC-BUTYLBENZENE	0.000		0	N.D.		
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.		
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.		
74) N-BUTYLBENZENE	0.000		0	N.D.		
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.		
76) NAPHTHALENE	0.000		0	N.D.		
77) HEXACHLOROBUTADIENE	0.000		0	N.D.		

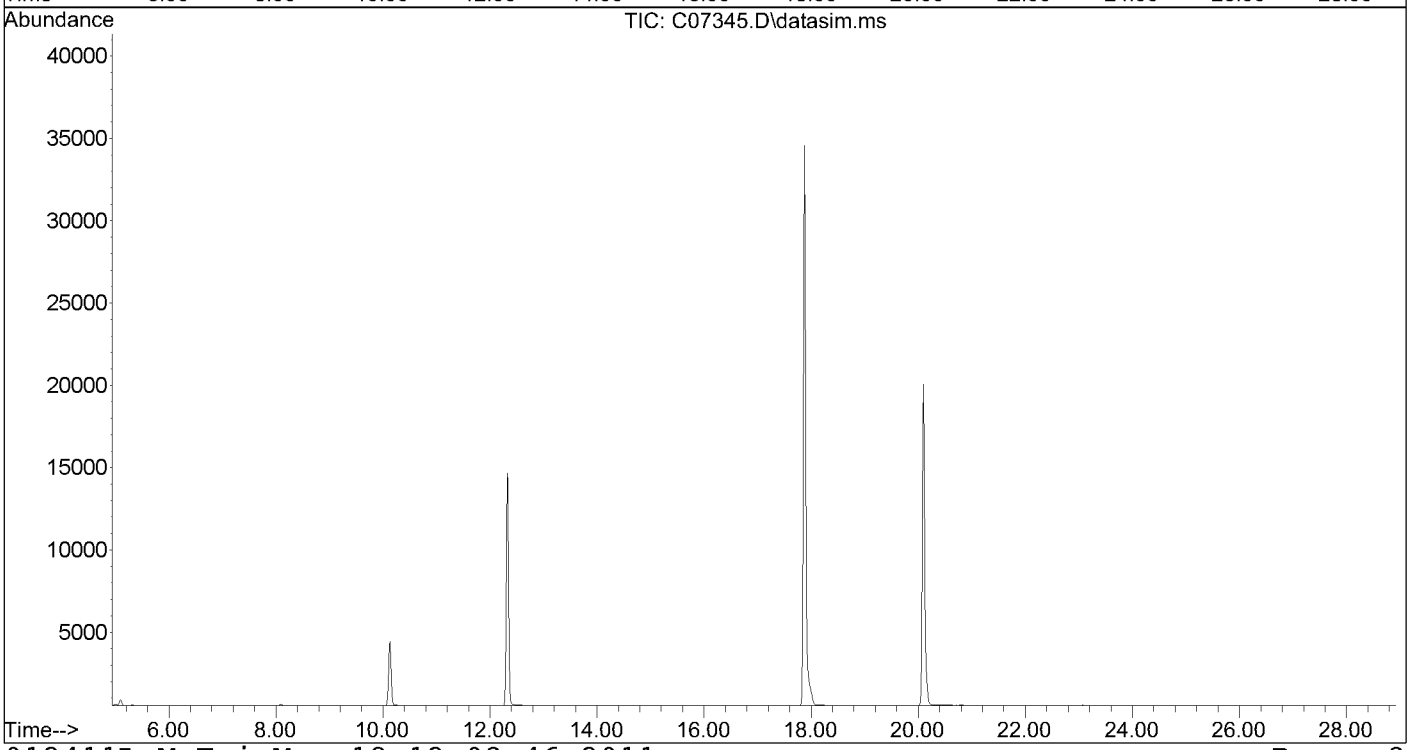
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07345.D
Acq On : 16 Feb 2011 6:36 pm
Operator : KRL
Sample : can check 1346 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 17 09:26:40 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07346.D
Acq On : 16 Feb 2011 7:29 pm
Operator : KRL
Sample : can check 1645 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 17 09:27:06 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.134	128	158445	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.337	114	836295	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.880	54	185200	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.104	95	369689	8.52	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 85.20%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) VINYL CHLORIDE (SIM)	0.000		0	N.D.		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	0.000		0	N.D.		
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16) 1,1-DICHLOROETHENE (SIM)	0.000		0	N.D.		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22) 1,1-DICHLOROETHANE (SIM)	0.000		0	N.D.		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	0.000		0	N.D.		
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07346.D
Acq On : 16 Feb 2011 7:29 pm
Operator : KRL
Sample : can check 1645 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 17 09:27:06 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

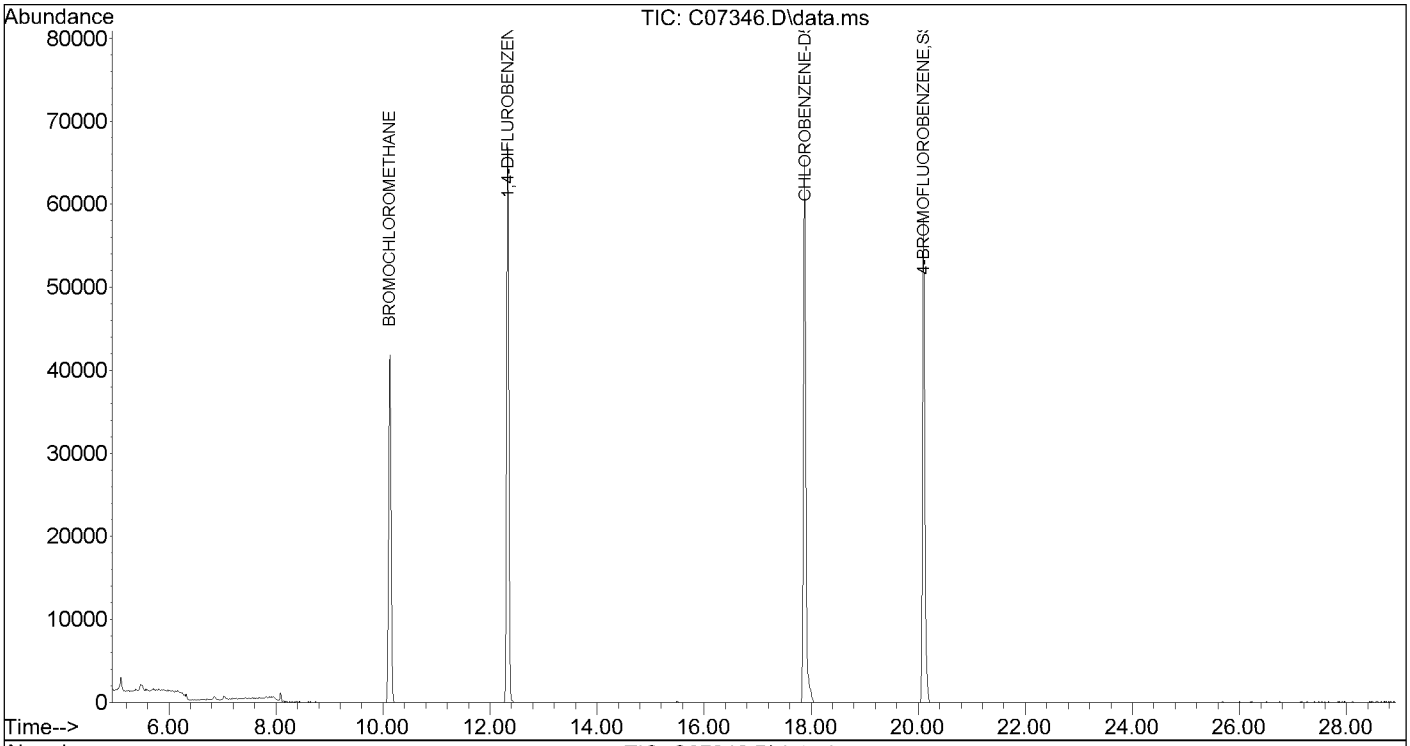
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	0.000		0	N.D.		
36) CYCLOHEXANE	0.000		0	N.D.	d	
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.		
39) BROMDICHLOROMETHANE	0.000		0	N.D.		
40) TRICHLOROETHENE	0.000		0	N.D.		
41) TRICHLOROETHENE (SIM)	0.000		0	N.D.		
42) 1,4-DIOXANE	0.000		0	N.D.		
43) HEPTANE	0.000		0	N.D.		
44) MIBK	0.000		0	N.D.		
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
48) TOLUENE	0.000		0	N.D.		
49) 2-HEXANONE (MBK)	0.000		0	N.D.		
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.		
51) 1,2-DIBROMOETHANE	0.000		0	N.D.		
52) TETRACHLOROETHENE	0.000		0	N.D.		
53) TETRACHLOROETHENE (SIM)	0.000		0	N.D.		
55) CHLOROBENZENE	0.000		0	N.D.		
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
57) ETHYLBENZENE	0.000		0	N.D.		
58) M/P-XYLENE	0.000		0	N.D.		
59) BROMOFORM	0.000		0	N.D.		
60) STYRENE	0.000		0	N.D.		
61) O-XYLENE	0.000		0	N.D.		
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.		
64) ISOPROPYLBENZENE	0.000		0	N.D.		
65) 4-ETHYLTOLUENE	0.000		0	N.D.		
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.		
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.		
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.		
69) BENZYL CHLORIDE	0.000		0	N.D.		
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.		
71) SEC-BUTYLBENZENE	0.000		0	N.D.		
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.		
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.		
74) N-BUTYLBENZENE	0.000		0	N.D.		
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.		
76) NAPHTHALENE	0.000		0	N.D.		
77) HEXACHLOROBUTADIENE	0.000		0	N.D.		

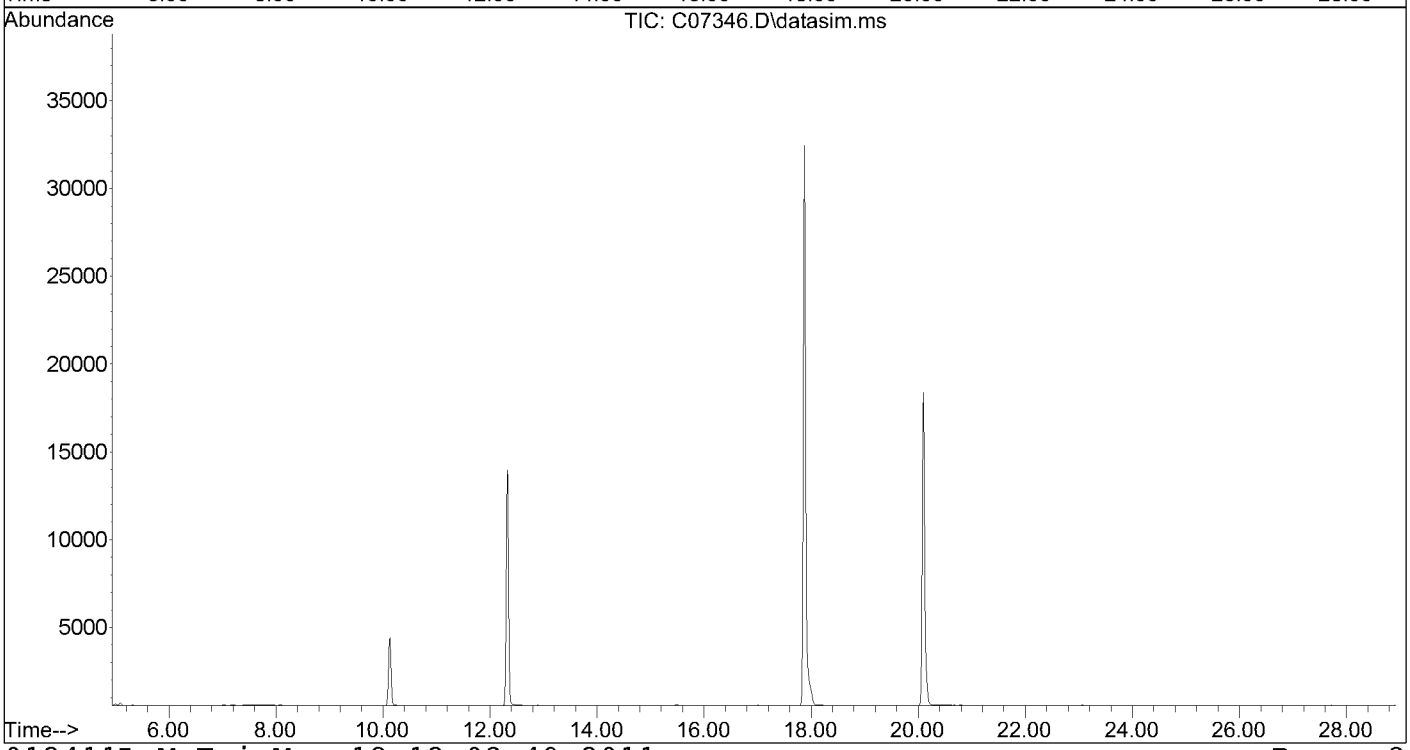
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07346.D
Acq On : 16 Feb 2011 7:29 pm
Operator : KRL
Sample : can check 1645 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 17 09:27:06 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07352.D
Acq On : 17 Feb 2011 12:49 am
Operator : KRL
Sample : can check 0669 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 17 09:29:35 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	10.130	128	131903	10.00	PPBv	# 0.00
37) 1,4-DIFLUROBENZENE	12.334	114	717573	10.00	PPBv	0.00
54) CHLOROBENZENE-D5	17.880	54	164731	10.00	PPBv	# 0.00
System Monitoring Compounds						
63) 4-BROMOFLUOROBENZENE	20.102	95	335910	8.70	PPBv	0.00
Spiked Amount 10.000	Range 7 - 13		Recovery = 87.00%#			
Target Compounds						Qvalue
2) PROPENE	0.000		0	N.D.		
3) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
4) CHLOROMETHANE	0.000		0	N.D.		
5) FREON 114	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) VINYL CHLORIDE (SIM)	0.000		0	N.D.		
8) 1,3-BUTADIENE	0.000		0	N.D.		
9) BROMOMETHANE	0.000		0	N.D.		
10) CHLOROETHANE	0.000		0	N.D.		
11) ACETONE	0.000		0	N.D.		
12) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
13) ETHANOL	0.000		0	N.D.		
14) ACRYLONITRILE	0.000		0	N.D.		
15) 1,1-DICHLOROETHENE	0.000		0	N.D.		
16) 1,1-DICHLOROETHENE (SIM)	0.000		0	N.D.		
17) METHYLENE CHLORIDE	0.000		0	N.D.		
18) FREON 113	0.000		0	N.D.		
19) CARBON DISULFIDE	0.000		0	N.D.		
20) TRANS-1,2DICHLOROETHENE	0.000		0	N.D.		
21) 1,1-DICHLOROETHANE	0.000		0	N.D.		
22) 1,1-DICHLOROETHANE (SIM)	0.000		0	N.D.		
23) MTBE	0.000		0	N.D.		
24) IPA	0.000		0	N.D.		
25) 2-BUTANONE (MEK)	0.000		0	N.D.		
26) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
27) HEXANE	0.000		0	N.D.		
28) ETHYL ACETATE	0.000		0	N.D.		
29) CHLOROFORM	0.000		0	N.D.		
30) TETRAHYDROFURAN	0.000		0	N.D.		
31) 1,2-DICHLOROETHANE	0.000		0	N.D.		
32) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
33) BENZENE	0.000		0	N.D.		
34) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07352.D
Acq On : 17 Feb 2011 12:49 am
Operator : KRL
Sample : can check 0669 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 17 09:29:35 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration

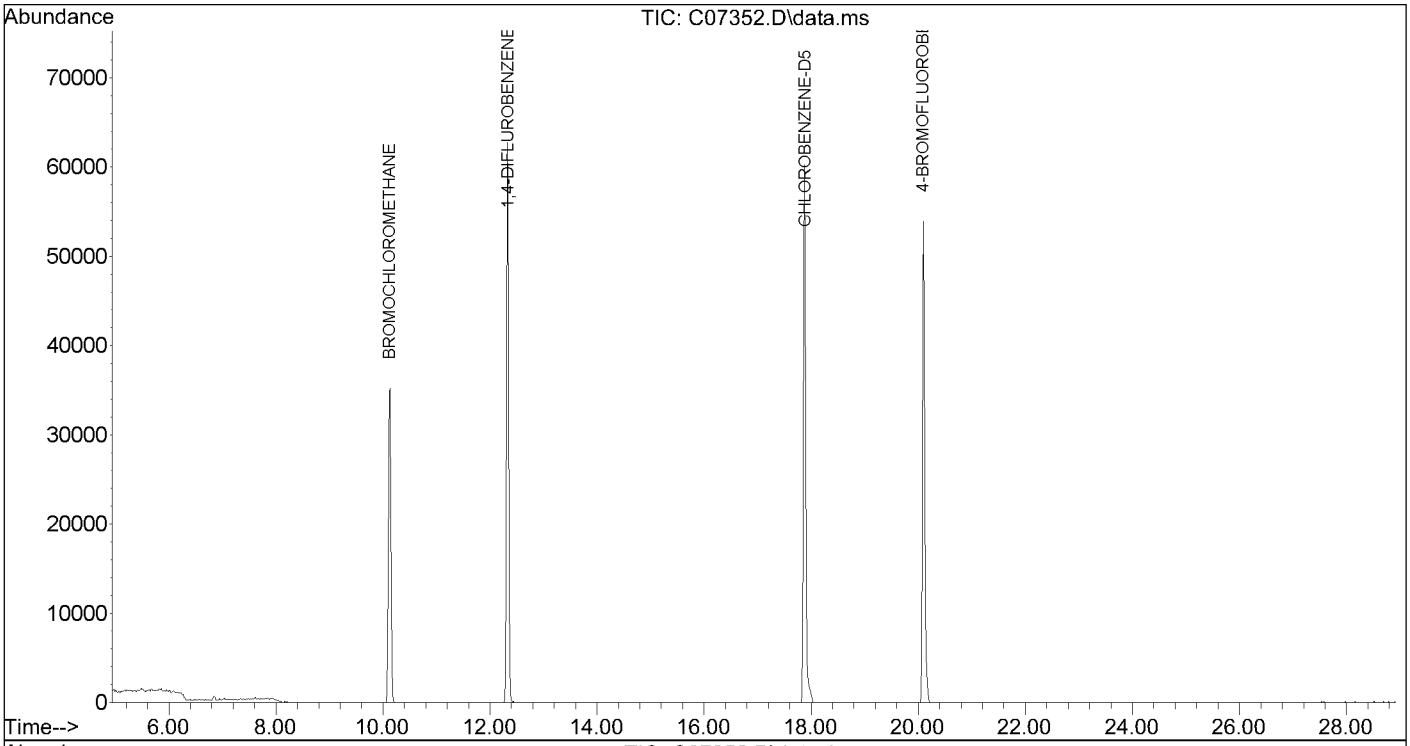
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) CARBON TETRACHLORIDE (...	0.000		0	N.D.		
36) CYCLOHEXANE	0.000		0	N.D.	d	
38) 1,2-DICHLOROPROPANE	0.000		0	N.D.		
39) BROMDICHLOROMETHANE	0.000		0	N.D.		
40) TRICHLOROETHENE	0.000		0	N.D.		
41) TRICHLOROETHENE (SIM)	0.000		0	N.D.		
42) 1,4-DIOXANE	0.000		0	N.D.		
43) HEPTANE	0.000		0	N.D.		
44) MIBK	0.000		0	N.D.		
45) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
46) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
47) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
48) TOLUENE	0.000		0	N.D.		
49) 2-HEXANONE (MBK)	0.000		0	N.D.		
50) DIBROMOCHLOROMETHANE	0.000		0	N.D.		
51) 1,2-DIBROMOETHANE	0.000		0	N.D.		
52) TETRACHLOROETHENE	0.000		0	N.D.		
53) TETRACHLOROETHENE (SIM)	0.000		0	N.D.		
55) CHLOROBENZENE	0.000		0	N.D.		
56) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
57) ETHYLBENZENE	0.000		0	N.D.		
58) M/P-XYLENE	0.000		0	N.D.		
59) BROMOFORM	0.000		0	N.D.		
60) STYRENE	0.000		0	N.D.		
61) O-XYLENE	0.000		0	N.D.		
62) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.		
64) ISOPROPYLBENZENE	0.000		0	N.D.		
65) 4-ETHYLTOLUENE	0.000		0	N.D.		
66) 1,3,5-TRIMETHYLBENZENE	0.000		0	N.D.		
67) 1,2,4-TRIMETHYLBENZENE	0.000		0	N.D.		
68) 1,3-DICHLOROBENZENE	0.000		0	N.D.		
69) BENZYL CHLORIDE	0.000		0	N.D.		
70) 1,4-DICHLOROBENZENE	0.000		0	N.D.		
71) SEC-BUTYLBENZENE	0.000		0	N.D.		
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.		
73) 1,2-DICHLOROBENZENE	0.000		0	N.D.		
74) N-BUTYLBENZENE	0.000		0	N.D.		
75) 1,2,4-TRICHLOROBENZENE	0.000		0	N.D.		
76) NAPHTHALENE	0.000		0	N.D.		
77) HEXACHLOROBUTADIENE	0.000		0	N.D.		

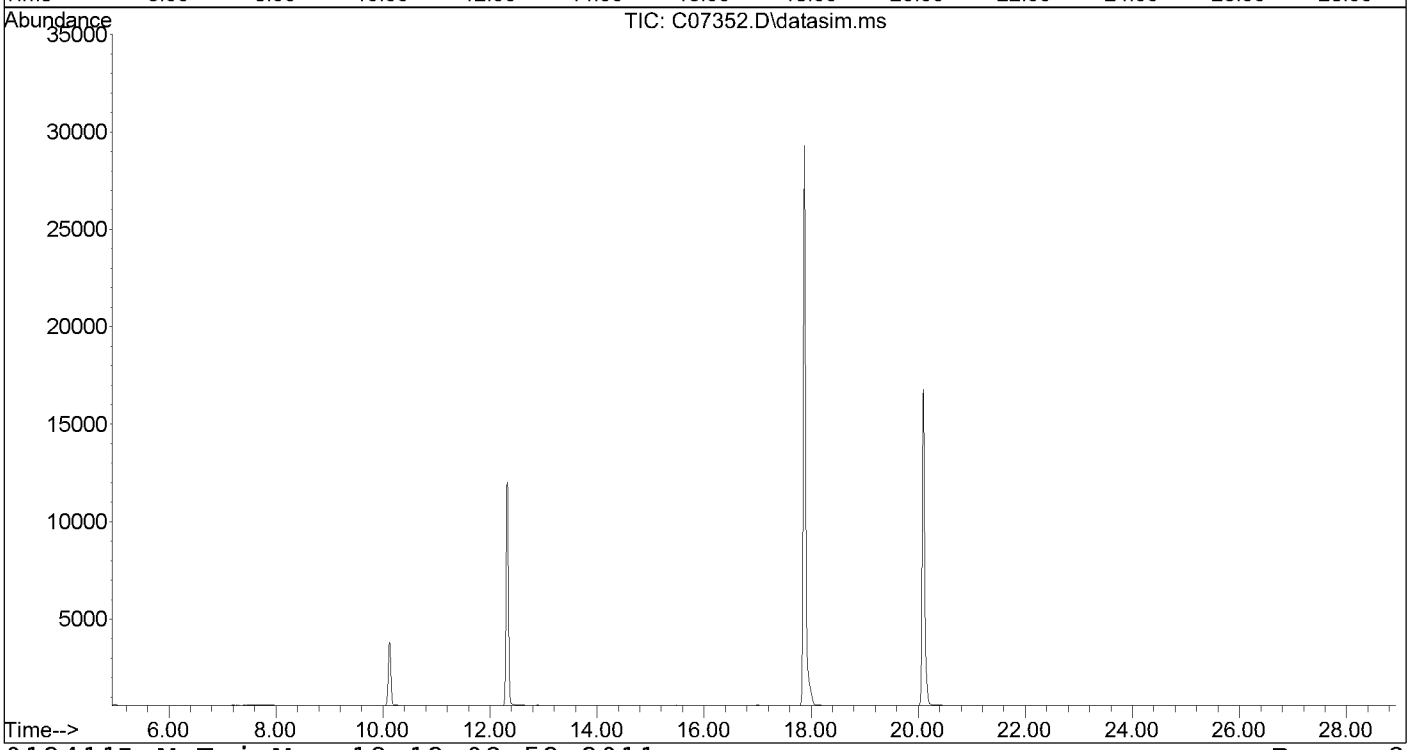
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Feb2011\Air4\021611\
Data File : C07352.D
Acq On : 17 Feb 2011 12:49 am
Operator : KRL
Sample : can check 0669 (1000ml) Inst : Air 4
Misc : 1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 17 09:29:35 2011
Quant Method : C:\msdchem\1\METHODS\T4012411L.M
Quant Title :
QLast Update : Wed Jan 26 08:26:25 2011
Response via : Initial Calibration





Last Page of data Report

Appendix M

NYSDOH Matrices and Table 3.1

Soil Vapor / Indoor Air Matrix 1

October 2006

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m^3)			
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m^3)	< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
< 5	1. No further action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50	5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250	9. MONITOR	10. MONITOR / MITIGATE	11. MITIGATE	12. MITIGATE
250 and above	13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

No further action:
Given that the compound was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

Take reasonable and practical actions to identify source(s) and reduce exposures:
The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers tightly capped or by storing volatile organic compound-containing products in places where people do not spend much time, such as a garage or outdoor shed). Resampling may be recommended to demonstrate the effectiveness of actions taken to reduce exposures.

MONITOR:
Monitoring, including sub-slab vapor, basement air, lowest occupied living space air, and outdoor air sampling, is needed to determine whether concentrations in the indoor air or sub-slab vapor have changed. Monitoring may also be needed to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined on a site-specific and building-specific basis, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MITIGATE:
Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system, and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MONITOR / MITIGATE:
Monitoring or mitigation may be recommended after considering the magnitude of sub-slab vapor and indoor air concentrations along with building- and site-specific conditions.

See additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX 1

This matrix summarizes the minimum actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate building-specific conditions (e.g., dirt floor in basement, crawl spaces, etc.) and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, resampling may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Additionally, actions more protective of public health than those specified within the matrix may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action is usually undertaken for reasons other than public health (e.g., seeking community acceptance, reducing excessive costs, etc.).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of vapor contamination, nor does it preclude remediating contaminated soil vapors or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 0.25 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples, a minimum reporting limit of 5 micrograms per cubic meter is recommended for buildings with full slab foundations, and 1 microgram per cubic meter for buildings with less than a full slab foundation.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions may be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including the identified source of the volatile chemicals, the environmental remediation program, and site-specific and building-specific conditions. For example, to the extent that all site data and site conditions demonstrate that soil vapor intrusion is not occurring and that the potential for soil vapor intrusion to occur is not likely, the soil vapor intrusion investigation would be considered complete. In general, if indoor exposures represent a concern due to indoor sources, then the State will provide guidance to the property owner and/or tenant on ways to reduce their exposure. If indoor exposures represent a concern due to outdoor sources, then the NYSDEC will decide who is responsible for further investigation and any necessary remediation. Depending upon the outdoor source, this responsibility may or may not fall upon the party conducting the soil vapor intrusion investigation.

Soil Vapor / Indoor Air Matrix 2

October 2006

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m^3)			
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m^3)	< 3	3 to < 30	30 to < 100	100 and above
< 100	1. No further action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to < 1,000	5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

No further action:
Given that the compound was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

Take reasonable and practical actions to identify source(s) and reduce exposures:
The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers tightly capped or by storing volatile organic compound-containing products in places where people do not spend much time, such as a garage or outdoor shed). Resampling may be recommended to demonstrate the effectiveness of actions taken to reduce exposures.

MONITOR:
Monitoring, including sub-slab vapor, basement air, lowest occupied living space air, and outdoor air sampling, is needed to determine whether concentrations in the indoor air or sub-slab vapor have changed. Monitoring may also be needed to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined on a site-specific and building-specific basis, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MITIGATE:
Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system, and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MONITOR / MITIGATE:
Monitoring or mitigation may be recommended after considering the magnitude of sub-slab vapor and indoor air concentrations along with building- and site-specific conditions.

See additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX 2

This matrix summarizes the minimum actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate building-specific conditions (e.g., dirt floor in basement, crawl spaces, etc.) and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, resampling may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Additionally, actions more protective of public health than those specified within the matrix may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action is usually undertaken for reasons other than public health (e.g., seeking community acceptance, reducing excessive costs, etc.).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of vapor contamination, nor does it preclude remediating contaminated soil vapors or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 3 micrograms per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples, a minimum reporting limit of 5 micrograms per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions may be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including the identified source of the volatile chemicals, the environmental remediation program, and site-specific and building-specific conditions. For example, to the extent that all site data and site conditions demonstrate that soil vapor intrusion is not occurring and that the potential for soil vapor intrusion to occur is not likely, the soil vapor intrusion investigation would be considered complete. In general, if indoor exposures represent a concern due to indoor sources, then the State will provide guidance to the property owner and/or tenant on ways to reduce their exposure. If indoor exposures represent a concern due to outdoor sources, then the NYSDEC will decide who is responsible for further investigation and any necessary remediation. Depending upon the outdoor source, this responsibility may or may not fall upon the party conducting the soil vapor intrusion investigation.

the scientific basis for the guidance value. The peer reviewers provided technical comments on the data and methods used to derive the guidelines, each of which were addressed by the NYSDOH. Upon completion of the reviews and responses to comments, the guidelines were finalized.

Air guideline values derived by the NYSDOH are summarized in Table 3.1. Additional information about these guidelines is provided in the following:

- Appendix D — overview of how the NYSDOH develops air guidelines; and
- Appendix H — copies of fact sheets that discuss the air guidelines for PCE and TCE.

The purpose of a guideline is to help guide decisions about the nature of efforts to reduce exposure to the chemical. Reasonable and practical actions should be taken to reduce exposures when indoor air levels are above background, even when they are below the guideline. The urgency to complete these actions increases with indoor air levels, particularly when air levels are above the guideline, and additional actions taken if the initial actions do not sufficiently reduce levels. In all cases, the specific corrective actions to be taken depend on a case-by-case evaluation of the situation. The goal of the recommended actions is to reduce chemical levels in indoor air to as close to background as practical.

Table 3.1 Air guideline values derived by the NYSDOH

Chemical		Air Guideline Value (mcg/m^3)	Reference
methylene chloride (also referred to as dichloromethane)	MeCl	60	1
polychlorinated biphenyls	PCBs	1*	2,3
tetrachlorodibenzo-*p*-dioxin equivalents	TCDD	0.00001*	3,4
tetrachloroethene	PCE	100	5
trichloroethene	TCE	5	6,7

*The guideline is specific to indoor air.

References:

[1] NYSDOH. 1988. Letter from N. Kim to T. Allen, Division of Air, New York State Department of Environmental Conservation. November 28, 1988.
[2] NYSDOH. 1985. Binghamton State Office Building (BSOB) Re-Entry Guidelines: PCBs. Document 1330P. Albany, NY: Bureau of Toxic Substance Assessment.
[3] NYSDOH. 1988. Letter from D. Axelrod to J. Egan, New York State Office of General Services. March 8, 1988.
[4] NYSDOH. 1984. Re-Entry Guidelines. Binghamton State Office Building. Document 0549P. Albany, NY: Bureau of Toxic Substance Assessment.
[5] NYSDOH. 1997. Tetrachloroethene Ambient Air Criteria Document. Albany, NY: Bureau of Toxic Substance Assessment.
[6] NYSDOH. 2003. Letter from N. Kim to D. Desnoyers, Division of Environmental Remediation, New York State Department of Environmental Conservation. October 31, 2003. [Provided in Appendix D.]
[7] NYSDOH. 2006. Final Report: Trichloroethene (TCE) Air Criteria Document. Center for Environmental Health, Bureau of Toxic Substance Assessment. Troy, NY.

Appendix N

Data Validation - Air

Analytical Assurance Associates, Inc.
600 Rock Raymond Road
Downingtown, PA 19335
Phone: 610 - 269 - 9989
Fax: 610 - 269 - 9989

DATA VALIDATION REPORT

AECOM
SMS INSTRUMENTS SITE

ANALYZED BY
MITKEM LABORATORY

SDG NO.: K0336

REVIEWED BY:
Zohreh Hamid, Ph.D.

May 10, 2011

AECOM ENVIRONMENT
SMS INSTRUMENTS PROJECT
SDG NO.: K0336

INTRODUCTION

This quality assurance review is based upon a review of all data generated from twelve (12) air samples collected on March 2 and 3, 2011. Samples were received by Mitkem Laboratories, a division of Spectrum Analytical, on March 3, 2011 and analyzed for volatile organic compounds (VOCs) according to the EPA Method TO-15 following the criteria set forth in NYSDEC Category B.

The following samples were evaluated and included in this package review.

B3-SS1-030211	**B1-IA2-030211**
AA1-030211	**B2-SS1-030211**
B1-SS2-030211	**SG-1-030311**
B3-IA1-030211	**B1-DUP-030211**
B1-SS1-030211	**SG-2-030311**
B1-IA1-030211	**B2-IA1-030211**

All data have been validated with regard to usability according to the quality assurance set forth in USEPA Region II Data Validation SOP # HW-31 Revision 4, (August 2009), for evaluating volatile organic compounds (VOCs) in air samples.

QUALITY ASSURANCE REVIEW

The findings offered in this report are based upon a review of the following criteria:

- Data Completeness
- Holding Times
- Calibrations
- Surrogate Recoveries
- Blanks
- Matrix Spike/Spike Duplicate/Blank Spike Analyses
- Instrument Performance
- Field Duplicate Results
- Sample Results

DATA COMPLETENESS

The laboratory did not initially submit a Category B deliverable; the lab then submitted a Category B compliant package on May 4, 2011; however, the data package was not well organized making the review difficult and time-consuming.

The same analysis date and time were reported on the form Is for the field samples and the corresponding reanalysis.

The first page of Form I for sample SG-1-030311 was missing. Sample data was not impacted since this information was found in the data summary.

The response factors for standard analyzed at 0.04 ppbv were not listed on form VI and the corresponding quantitation reports in initial calibration analyzed on 3-9-2011. Consequently, the response factors for other standards were incorrectly listed on the quantitation report for this calibration. The form VI was utilized for the data evaluation.

The data quality was not impacted. However, the laboratory was notified for the data package completeness.

HOLDING TIME

Samples were received by the laboratory within 24 hours from collection and analyzed on March 8, 10 and 11, 2011, within 10 days from verified time of sample receipt (VTSR).

CALIBRATION

The response factors and %RSDs were within control limits with the exception of %RSDs for 2-hexanone (34.9%) and carbon disulfide (31.0%) in initial calibrations analyzed on 2-15-2011 and 2-24-2011 respectively. Sample data was not qualified since the deviations were marginal.

The %Ds for 1,1-dichloroethene (41.6%), methylene chloride (37.5%), and benzyl chloride (66.3%) were above 30% in continuing calibration analyzed on 3-8-2011. The reported sample results and non-detected values were considered estimated and qualified J and UJ in the corresponding samples.

SURROGATE RECOVERIES

Samples were spiked with 4-bromofluorobenzene prior to analysis. The recoveries were within the control limits of 70-130%.

BLANKS

Method blanks were free of target compounds.

LABORATORY CONTRO SAMPLES

Three LCSs were spiked with all target compounds and analyzed in this batch. The recoveries were within the control limits with the exception of benzyl chloride (143%) in LCS 1104127 analyzed on March 8, 2011, and 1,2,4-trichlorobenzene (132%) and 2-hexanone (133%) in LCS 1104208 analyzed on March 10, 2011. These compounds were not detected in the corresponding samples. Therefore, sample data was not impacted.

FIELD DUPLICATE

Field duplicate analysis was performed on samples B1-IA1-030211/B1-Dup-030211. Sample results and RPDs were listed on Table I.

The RPDs were below 100% which indicated a satisfactory reproducibility.

SAMPLE RESULTS

The following samples were initially analyzed or reanalyzed at higher dilutions:

Sample ID	Dilution Factor
B1-SS2-030211	5
B3-IA1-030211/RE	1/5
B1-SS1-030211	5
B1-IA1-030211/RE	1/5
B1-IA2-030211/RE	1/5
B2-SS1-030211	2
SG-1-030211/RE	5/1
B1-DUP-030211	5/1
SG-2-030211	5
B2-IA1-030211	5/1

Sample B2-SS1-030211 was initially analyzed at a two-fold dilution. The laboratory case narrative indicated that due to the low volume of sample collected it was necessary to pressurize the Summa can in laboratory prior to analysis which results in elevated reporting limits.

Samples B1-SS2-030211, B1-SS1-030211, and SG-2-030211 were initially analyzed at higher dilution due to the high concentrations of target compounds. The other six samples listed on the

above table were reanalyzed at higher dilutions because the results for ethanol or toluene exceeded the calibration range. The reported results for these two compounds were transferred from higher dilutions to the initial samples and should be used by the data user because of the lower reporting limits.

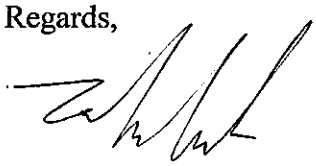
Non-target compounds were not searched.

SUMMARY

The cooler temperature (15.5 °C) was reported on the case narrative. Review of "Certificate of Analysis" confirms that the containers, "Summa Canisters" were free of target compound contamination prior to the sampling.

The reported data have been validated in accordance with the data quality assurance set forth in NYSDEC ASP for evaluating organic analyses. The USEPA Region II Data Validation SOP # HW-31 Revision 4, (August 2009), was utilized to review data completeness and data quality The analysis issues encountered during sample analysis were discussed in the above sections. If you have any questions or comments on this data review, please contact Zohreh Hamid at (610) 269-9989.

Regards,



Zohreh Hamid, Ph.D.
600 Rock Raymond Road
Downingtown, PA 19335

Date: 5-10-11

Table I
Field Sample ID /Field Dup ID
B1-IA1-030211/B1-Dup-030211

Compound Name	Result ug/m3 Field Sample/field Dup	RPD
Freon 12	2.37/2.37	0.0
Chloromethane	1.01/1.03	2
Acetone	8.63/12.48	36
Freon 11	1.52/1.46	4
Ethanol	21.5/14.29	40
Methylene chloride	2.85/2.85	0
Freon 13	0.69 J/0.54J	NC
Isopropyl alcohol	3.44/3.14	9
2-Butanone	2.51/2.48	1
Hexane	0.74J/0.92J	NC
Ethyl acetate	3.68/2.99	21
1,2-Dichlorobethane	0.32J/0.28J	NC
Benzene	0.77/0.64	18
Carbon tetrachloride	0.50J/0.44J	NC
n-Heptane	0.37J/0.45	NC
4-Methyl-2-pentanone	0.29J/U	NC
Toluene	3.95/3.65	8
Tetrachloroethene	1.08/2.03	61
Ethyl benzene	1.04/1.08	4
m,p- Xylene	2.47/2.34	5
Styrene	1.57/0.94	50
o-Xylene	0.95/0.91	4
1,2,4-Trimethylbenzene	0.79/0.84	6
Naphthalene	1.62J/U	NC
Cyclohexane	0.34U/0.34	NC
1,4-Dioxane	1.80U/1.84	NC
1,3,5-Trimethylbenzene	0.49U/0.25J	NC

1. **Appendix A- Glossary of Data Qualifier**
2. **Appendix B- Laboratory Form I, & Applied Qualifier Codes**
3. **Appendix C- Resubmission (If applicable)**

Appendix A
Glossary of Data Qualifiers

GLOSSARY OF DATA QUALIFIERS

CODES RELATING TO IDENTIFICATION

(confidence concerning presence or absence of compounds):

U = NOT DETECTED SUBSTANTIALLY ABOVE THE LEVEL REPORTED IN LABORATORY OR FIELD BLANKS. [Substantially is equivalent to a result less than 10 times the blank level for common contaminants (methylene chloride, acetone and 2- butanone in the VOA analyses, and common phthalates in the BNA analyses, along with tentatively identified compounds) or less than 5 times the blank level for other target compounds.]

R = UNUSABLE RESULT. THE PRESENCE OR ABSENCE OF THIS ANALYTE CANNOT BE VERIFIED. SUPPORTING DATA NECESSARY TO CONFIRM RESULT.

N = NEGATED COMPOUND. THERE IS PRESUMPTIVE EVIDENCE TO MAKE A TENTATIVE IDENTIFICCATION.

CODES RELATING TO QUATITATION

(can be used for both positive results and sample quantitation limits):

J = ANALYTE WAS POSITIVELY IDENTIFIED. REPORTED VALUE MAY NOT BE ACCURATE OR PRECISE.

UJ = ANALYTE WAS NOT DETECTED. THE REPORTED QUATITATION LIMIT IS QUALIFIED ESTIMATED.

OTHER CODES

Q = NO ANALYTICAL RESULT.

Appendix B
Laboratory Form I and Applied Qualifier Codes

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B3-SS1-030211	K0336	Soil Gas	03-Mar-11 12:13	03-Mar-11
SB25245-01				

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: -6 Can ID: 7641				
115-07-1	Propene	1.1400	0.10000	1.96	0.17		EPA TO-15	10-Mar-11	KRL	1104208	
75-71-8	Dichlorodifluoromethane (Freon12)	0.32000	0.10000	1.58	0.49		"	"	"	"	X
74-87-3	Chloromethane	< 0.093000	0.10000	< 0.19	0.21	U	"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.057000	0.10000	< 0.40	0.70	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.064000	0.10000	< 0.16	0.26	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.055000	0.10000	< 0.12	0.22	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.052000	0.10000	< 0.20	0.39	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.076000	0.10000	< 0.20	0.26	U	"	"	"	"	X
67-64-1	Acetone	8.2100	0.50000	19.51	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	0.24000	0.10000	1.35	0.56		"	"	"	"	X
64-17-5	Ethanol	2.4300	0.50000	4.58	0.94		"	"	"	"	
107-13-1	Acrylonitrile	< 0.064000	0.10000	< 0.14	0.22	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.073000	0.10000	< 0.29	0.40	U	"	"	"	"	X
75-09-2	Methylene chloride	0.070000	0.10000	0.24	0.35	J	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.080000	0.10000	0.61	0.77	J	"	"	"	"	X
75-15-0	Carbon disulfide	0.11000	0.50000	0.34	1.56	J	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.042000	0.10000	< 0.17	0.40	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.049000	0.10000	< 0.20	0.40	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.049000	0.10000	< 0.18	0.36	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	0.53000	0.50000	1.30	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	1.5000	0.10000	4.42	0.29		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.049000	0.10000	< 0.19	0.40	U	"	"	"	"	X
110-54-3	Hexane	0.37000	0.50000	1.30	1.76	J	"	"	"	"	X
141-78-6	Ethyl acetate	0.22000	0.10000	0.79	0.36		"	"	"	"	
67-66-3	Chloroform	0.39000	0.10000	1.90	0.49		"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.053000	0.10000	< 0.16	0.29	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.046000	0.10000	< 0.19	0.40	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.052000	0.10000	< 0.28	0.55	U	"	"	"	"	X
71-43-2	Benzene	0.38000	0.10000	1.21	0.32		"	"	"	"	X
56-23-5	Carbon tetrachloride	0.050000	0.10000	0.31	0.63	J	"	"	"	"	X
110-82-7	Cyclohexane	0.10000	0.10000	0.34	0.34		"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.049000	0.10000	< 0.23	0.46	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.053000	0.10000	< 0.36	0.67	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.052000	0.10000	< 0.28	0.54	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.067000	0.50000	< 0.24	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	0.14000	0.10000	0.57	0.41		"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK) ✓	< 0.053000	0.10000	< 0.22	0.41	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.066000	0.10000	< 0.36	0.55	U	"	"	"	"	X
108-88-3	Toluene	6.5800	0.10000	24.76	0.38		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.042000	0.10000	< 0.17	0.41	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.059000	0.10000	< 0.50	0.85	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.043000	0.10000	< 0.33	0.77	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B3-SS1-030211 SB25245-01	K0336	Soil Gas	03-Mar-11 12:13	03-Mar-11

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: -6 Can ID: 7641				
127-18-4	Tetrachloroethene	0.77000	0.10000	5.22	0.68		EPA TO-15	10-Mar-11	KRL	1104208	X
108-90-7	Chlorobenzene	< 0.061000	0.10000	< 0.28	0.46	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.047000	0.10000	< 0.32	0.69	U	"	"	"	"	
100-41-4	Ethylbenzene	0.26000	0.10000	1.13	0.43		"	"	"	"	X
179601-23-1	m,p-Xylene	0.65000	0.20000	2.82	0.87		"	"	"	"	X
75-25-2	Bromoform	< 0.046000	0.10000	< 0.48	1.03	U	"	"	"	"	X
100-42-5	Styrene	0.23000	0.10000	0.98	0.43		"	"	"	"	X
95-47-6	o-Xylene	0.19000	0.10000	0.82	0.43		"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.066000	0.10000	< 0.45	0.69	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.056000	0.10000	< 0.28	0.49	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.046000	0.10000	< 0.23	0.49	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	0.060000	0.10000	0.29	0.49	J	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	0.13000	0.10000	0.64	0.49		"	"	"	"	X
91-20-3	Naphthalene	< 0.18300	0.50000	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.055000	0.10000	< 0.33	0.60	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.062000	0.10000	< 0.32	0.52	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.061000	0.10000	< 0.37	0.60	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.052000	0.10000	< 0.29	0.55	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.062000	0.10000	< 0.33	0.54	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.053000	0.10000	< 0.32	0.60	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.056000	0.10000	< 0.31	0.55	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.053000	0.10000	< 0.39	0.74	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.040000	0.10000	< 0.43	1.07	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*96*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AA1-030211	K0336	Air	03-Mar-11 10:20	03-Mar-11
SB25245-02				

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: +1 Can ID: 1645				
115-07-1	Propene	< 0.084000	0.10000	< 0.14	0.17	U	EPA TO-15	10-Mar-11	KRL	1104208	
75-71-8	Dichlorodifluoromethane (Freon12)	0.51000	0.10000	2.52	0.49		"	"	"	"	X
74-87-3	Chloromethane	0.48000	0.10000	0.99	0.21		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.057000	0.10000	< 0.40	0.70	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.064000	0.10000	< 0.16	0.26	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.055000	0.10000	< 0.12	0.22	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.052000	0.10000	< 0.20	0.39	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.076000	0.10000	< 0.20	0.26	U	"	"	"	"	X
67-64-1	Acetone	7.1700	0.50000	17.04	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	0.26000	0.10000	1.46	0.56		"	"	"	"	X
64-17-5	Ethanol	2.8500	0.50000	5.37	0.94		"	"	"	"	
107-13-1	Acrylonitrile	< 0.064000	0.10000	< 0.14	0.22	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.073000	0.10000	< 0.29	0.40	U	"	"	"	"	X
75-09-2	Methylene chloride	0.080000	0.10000	0.28	0.35	J	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.080000	0.10000	0.61	0.77	J	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.057000	0.50000	< 0.18	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.042000	0.10000	< 0.17	0.40	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.049000	0.10000	< 0.20	0.40	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.049000	0.10000	< 0.18	0.36	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	3.5400	0.50000	8.69	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.98000	0.10000	2.89	0.29		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.049000	0.10000	< 0.19	0.40	U	"	"	"	"	X
110-54-3	Hexane	0.14000	0.50000	0.49	1.76	J	"	"	"	"	X
141-78-6	Ethyl acetate	< 0.082000	0.10000	< 0.30	0.36	U	"	"	"	"	
67-66-3	Chloroform	< 0.045000	0.10000	< 0.22	0.49	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	0.35000	0.10000	1.03	0.29		"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.046000	0.10000	< 0.19	0.40	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.052000	0.10000	< 0.28	0.55	U	"	"	"	"	X
71-43-2	Benzene	0.22000	0.10000	0.70	0.32		"	"	"	"	X
56-23-5	Carbon tetrachloride	0.060000	0.10000	0.38	0.63	J	"	"	"	"	X
110-82-7	Cyclohexane	< 0.081000	0.10000	< 0.28	0.34	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.049000	0.10000	< 0.23	0.46	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.053000	0.10000	< 0.36	0.67	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.052000	0.10000	< 0.28	0.54	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.067000	0.50000	< 0.24	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	< 0.061000	0.10000	< 0.25	0.41	U	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.053000	0.10000	< 0.22	0.41	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.066000	0.10000	< 0.36	0.55	U	"	"	"	"	X
108-88-3	Toluene	0.54000	0.10000	2.03	0.38		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.042000	0.10000	< 0.17	0.41	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.059000	0.10000	< 0.50	0.85	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.043000	0.10000	< 0.33	0.77	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AA1-030211 SB25245-02	K0336	Air	03-Mar-11 10:20	03-Mar-11

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: +1 Can ID: 1645				
127-18-4	Tetrachloroethene	< 0.061000	0.10000	< 0.41	0.68	U	EPA TO-15	10-Mar-11	KRL	1104208	X
108-90-7	Chlorobenzene	< 0.061000	0.10000	< 0.28	0.46	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.047000	0.10000	< 0.32	0.69	U	"	"	"	"	
100-41-4	Ethylbenzene	< 0.067000	0.10000	< 0.29	0.43	U	"	"	"	"	X
179601-23-1	m,p-Xylene	0.23000	0.20000	1.00	0.87		"	"	"	"	X
75-25-2	Bromoform	< 0.046000	0.10000	< 0.48	1.03	U	"	"	"	"	X
100-42-5	Styrene	< 0.053000	0.10000	< 0.23	0.43	U	"	"	"	"	X
95-47-6	o-Xylene	0.070000	0.10000	0.30	0.43	J	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.066000	0.10000	< 0.45	0.69	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.056000	0.10000	< 0.28	0.49	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.046000	0.10000	< 0.23	0.49	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.055000	0.10000	< 0.27	0.49	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	0.060000	0.10000	0.29	0.49	J	"	"	"	"	X
91-20-3	Naphthalene	< 0.18300	0.50000	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.055000	0.10000	< 0.33	0.60	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.062000	0.10000	< 0.32	0.52	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.061000	0.10000	< 0.37	0.60	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.052000	0.10000	< 0.29	0.55	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.062000	0.10000	< 0.33	0.54	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.053000	0.10000	< 0.32	0.60	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.056000	0.10000	< 0.31	0.55	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.053000	0.10000	< 0.39	0.74	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.040000	0.10000	< 0.43	1.07	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-SS2-030211	K0336	Soil Gas	03-Mar-11 11:53	03-Mar-11
SB25245-03				

Air Quality Analyses

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
EPA TO-15		ppbv	Prepared 08-Mar-11 Dilution: 1			GS	Can pressure: -1 Can ID: 1346				
115-07-1	Propene	< 0.0930	0.500	< 0.16	0.86	U	EPA TO-15	08-Mar-11	KG	1104127	
75-71-8	Dichlorodifluoromethane (Freon12)	0.770	0.500	3.81	2.47		"	"	"	"	X
74-87-3	Chloromethane	< 0.455	0.500	< 0.94	1.03	U	"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.390	0.500	< 2.73	3.49	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.278	0.500	< 0.71	1.28	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.149	0.500	< 0.33	1.10	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.249	0.500	< 0.97	1.94	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.219	0.500	< 0.58	1.32	U	"	"	"	"	X
67-64-1	Acetone	37.0	0.500	87.92	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	0.460	0.500	2.59	2.81	J	"	"	"	"	X
64-17-5	Ethanol	2.57	0.500	4.85	0.94		"	"	"	"	
107-13-1	Acrylonitrile	< 0.0700	0.500	< 0.15	1.08	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.163	0.500	< 0.65	1.98	U UJ	"	"	"	"	X
75-09-2	Methylene chloride	0.260	0.500	0.90	1.74	J J	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.202	0.500	< 1.55	3.83	U	"	"	"	"	X
75-15-0	Carbon disulfide	0.270	0.500	0.84	1.56	J	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.0660	0.500	< 0.26	1.98	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.150	0.500	< 0.61	2.02	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.0780	0.500	< 0.28	1.80	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	1.42	0.500	3.48	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	3.15	0.500	9.29	1.47		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.101	0.500	< 0.40	1.98	U	"	"	"	"	X
110-54-3	Hexane	0.630	0.500	2.22	1.76		"	"	"	"	X
141-78-6	Ethyl acetate	< 0.334	0.500	< 1.20	1.80	U	"	"	"	"	
67-66-3	Chloroform	0.310	0.500	1.51	2.43	J	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.167	0.500	< 0.49	1.47	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.162	0.500	< 0.66	2.02	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.159	0.500	< 0.87	2.73	U	"	"	"	"	X
71-43-2	Benzene	0.520	0.500	1.66	1.60		"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.176	0.500	< 1.11	3.15	U	"	"	"	"	X
110-82-7	Cyclohexane	< 0.0640	0.500	< 0.22	1.72	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.0730	0.500	< 0.34	2.31	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.127	0.500	< 0.85	3.35	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.0800	0.500	< 0.43	2.69	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.0870	0.500	< 0.31	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	< 0.284	0.500	< 1.16	2.05	U	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	1.37	0.500	5.61	2.05		"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.104	0.500	< 0.47	2.27	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.0670	0.500	< 0.30	2.27	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.125	0.500	< 0.68	2.73	U	"	"	"	"	X
108-88-3	Toluene	2.44	0.500	9.18	1.88		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.106	0.500	< 0.43	2.05	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.130	0.500	< 1.11	4.26	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.0890	0.500	< 0.68	3.84	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-SS2-030211	K0336	Soil Gas	03-Mar-11 11:53	03-Mar-11
SB25245-03				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15		ppbv	Prepared 08-Mar-11 Dilution: 1			GS	Can pressure: -1 Can ID: 1346				
127-18-4	Tetrachloroethene	11.1	0.500	75.27	3.39		EPA TO-15	08-Mar-11	KG	1104127	X
108-90-7	Chlorobenzene	< 0.132	0.500	< 0.61	2.30	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.164	0.500	< 1.13	3.44	U	"	"	"	"	
100-41-4	Ethylbenzene	< 0.0620	0.500	< 0.27	2.17	U	"	"	"	"	X
179601-23-1	m,p-Xylene	0.360	0.500	1.56	2.17	J	"	"	"	"	X
75-25-2	Bromoform	< 0.153	0.500	< 1.58	5.17	U	"	"	"	"	X
100-42-5	Styrene	< 0.0500	0.500	< 0.21	2.13	U	"	"	"	"	X
95-47-6	o-Xylene	< 0.110	0.500	< 0.48	2.17	U	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.170	0.500	< 1.17	3.43	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.0930	0.500	< 0.46	2.46	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.211	0.500	< 1.04	2.46	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.0940	0.500	< 0.46	2.46	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 0.0890	0.500	< 0.44	2.46	U	"	"	"	"	X
91-20-3	Naphthalene	< 0.183	0.500	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.124	0.500	< 0.75	3.01	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.164	0.500	< 0.85	2.58	U UJ	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.170	0.500	< 1.02	3.01	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.125	0.500	< 0.69	2.74	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.0880	0.500	< 0.47	2.68	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.150	0.500	< 0.90	3.01	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.0930	0.500	< 0.51	2.74	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.335	0.500	< 2.49	3.71	U /	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.140	0.500	< 1.49	5.33	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B3-IA1-030211 SB25245-04	K0336	Air	03-Mar-11 09:45	03-Mar-11

Air Quality Analyses

EPA TO-15 — ppbv — Prepared 11-Mar-11, Dilution: 1 — Can pressure: -3, Can ID: 5566

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
115-07-1	Propene	< 0.0930	0.500	< 0.16	0.86	U	EPA TO-15	11-Mar-11	KG	1104256	
75-71-8	Dichlorodifluoromethane (Freon12)	0.710	0.500	3.51	2.47		"	"	"	"	X
74-87-3	Chloromethane	0.590	0.500	1.22	1.03		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.390	0.500	< 2.73	3.49	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.278	0.500	< 0.71	1.28	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.149	0.500	< 0.33	1.10	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.249	0.500	< 0.97	1.94	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.219	0.500	< 0.58	1.32	U	"	"	"	"	X
67-64-1	Acetone	3.52	0.500	8.36	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.379	0.500	< 2.13	2.81	U	"	"	"	"	X
64-17-5	Ethanol	12.2	0.500	23.00	0.94		"	"	"	"	
107-13-1	Acrylonitrile	< 0.0700	0.500	< 0.15	1.08	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.163	0.500	< 0.65	1.98	U	"	"	"	"	X
75-09-2	Methylene chloride	0.180	0.500	0.63	1.74	J	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.202	0.500	< 1.55	3.83	U	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.185	0.500	< 0.58	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.0660	0.500	< 0.26	1.98	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.150	0.500	< 0.61	2.02	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.0780	0.500	< 0.28	1.80	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	0.570	0.500	1.40	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 0.176	0.500	< 0.52	1.47	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.101	0.500	< 0.40	1.98	U	"	"	"	"	X
110-54-3	Hexane	0.610	0.500	2.15	1.76		"	"	"	"	X
141-78-6	Ethyl acetate	< 0.334	0.500	< 1.20	1.80	U	"	"	"	"	
67-66-3	Chloroform	< 0.175	0.500	< 0.85	2.43	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.167	0.500	< 0.49	1.47	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.162	0.500	< 0.66	2.02	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.159	0.500	< 0.87	2.73	U	"	"	"	"	X
71-43-2	Benzene	0.290	0.500	0.93	1.60	J	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.176	0.500	< 1.11	3.15	U	"	"	"	"	X
110-82-7	Cyclohexane	< 0.0640	0.500	< 0.22	1.72	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.0730	0.500	< 0.34	2.31	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.127	0.500	< 0.85	3.35	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.0800	0.500	< 0.43	2.69	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.0870	0.500	< 0.31	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	< 0.284	0.500	< 1.16	2.05	U	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.132	0.500	< 0.54	2.05	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.104	0.500	< 0.47	2.27	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.0670	0.500	< 0.30	2.27	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.125	0.500	< 0.68	2.73	U	"	"	"	"	X
108-88-3	Toluene	1.94	0.500	7.30	1.88		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.106	0.500	< 0.43	2.05	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.130	0.500	< 1.11	4.26	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.0890	0.500	< 0.68	3.84	U	"	"	"	"	X

See the original sample at 1-fold dilution

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B3-IA1-030211	K0336	Air	03-Mar-11 09:45	03-Mar-11
SB25245-04				

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
EPA TO-15		ppbv	Prepared 11-Mar-11 Dilution: 1				Can pressure: -3 Can ID: 5566				
127-18-4	Tetrachloroethene	0.200	0.500	1.36	3.39	J	EPA TO-15	11-Mar-11	KG	1104256	X
108-90-7	Chlorobenzene	< 0.132	0.500	< 0.61	2.30	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.164	0.500	< 1.13	3.44	U	"	"	"	"	
100-41-4	Ethylbenzene	< 0.0620	0.500	< 0.27	2.17	U	"	"	"	"	X
179601-23-1	m,p-Xylene	0.240	0.500	1.04	2.17	J	"	"	"	"	X
75-25-2	Bromoform	< 0.153	0.500	< 1.58	5.17	U	"	"	"	"	X
100-42-5	Styrene	0.280	0.500	1.19	2.13	J	"	"	"	"	X
95-47-6	o-Xylene	< 0.110	0.500	< 0.48	2.17	U	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.170	0.500	< 1.17	3.43	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.0930	0.500	< 0.46	2.46	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.211	0.500	< 1.04	2.46	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.0940	0.500	< 0.46	2.46	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	0.110	0.500	0.54	2.46	J	"	"	"	"	X
91-20-3	Naphthalene	< 0.183	0.500	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.124	0.500	< 0.75	3.01	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.164	0.500	< 0.85	2.58	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.170	0.500	< 1.02	3.01	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.125	0.500	< 0.69	2.74	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.0880	0.500	< 0.47	2.68	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.150	0.500	< 0.90	3.01	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.0930	0.500	< 0.51	2.74	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.335	0.500	< 2.49	3.71	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.140	0.500	< 1.49	5.33	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*109*		*70-130 %*			"	"	"	"	
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: -3 Can ID: 5566				
115-07-1	Propene	< 0.084000	0.10000	< 0.14	0.17	U	"	10-Mar-11	"	1104208	
75-71-8	Dichlorodifluoromethane (Freon12)	0.43000	0.10000	2.13	0.49		"	"	"	"	X
74-87-3	Chloromethane	0.48000	0.10000	0.99	0.21		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.057000	0.10000	< 0.40	0.70	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.064000	0.10000	< 0.16	0.26	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.055000	0.10000	< 0.12	0.22	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.052000	0.10000	< 0.20	0.39	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.076000	0.10000	< 0.20	0.26	U	"	"	"	"	X
67-64-1	Acetone	3.4600	0.50000	8.22	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	0.27000	0.10000	1.52	0.56		"	"	"	"	X
64-17-5	Ethanol	12.690	0.50000	23.93 23.80	0.94	E	" #1	"	"	"	
107-13-1	Acrylonitrile	< 0.064000	0.10000	< 0.14	0.22	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.073000	0.10000	< 0.29	0.40	U	"	"	"	"	X
75-09-2	Methylene chloride	0.22000	0.10000	0.76	0.35		"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.090000	0.10000	0.69	0.77	J	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.057000	0.50000	< 0.18	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.042000	0.10000	< 0.17	0.40	U	"	"	"	"	X

See the original sample

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Reported from 5-fold dilution #1

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B3-IA1-030211 SB25245-04	K0336	Air	03-Mar-11 09:45	03-Mar-11

Air Quality Analyses

EPA TO-15 Low Level — ppbv — Prepared 10-Mar-11, Dilution: 1 — Can pressure: -3, Can ID: 5566

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
75-34-3	1,1-Dichloroethane	< 0.049000	0.10000	< 0.20	0.40	U	EPA TO-15	10-Mar-11	KRL	1104208	X
1634-04-4	Methyl tert-butyl ether	< 0.049000	0.10000	< 0.18	0.36	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	0.56000	0.50000	1.37	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.55000	0.10000	1.62	0.29		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.049000	0.10000	< 0.19	0.40	U	"	"	"	"	X
110-54-3	Hexane	0.73000	0.50000	2.57	1.76		"	"	"	"	X
141-78-6	Ethyl acetate	0.090000	0.10000	0.32	0.36	J	"	"	"	"	
67-66-3	Chloroform	< 0.045000	0.10000	< 0.22	0.49	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.053000	0.10000	< 0.16	0.29	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.046000	0.10000	< 0.19	0.40	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.052000	0.10000	< 0.28	0.55	U	"	"	"	"	X
71-43-2	Benzene	0.42000	0.10000	1.34	0.32		"	"	"	"	X
56-23-5	Carbon tetrachloride	0.080000	0.10000	0.50	0.63	J	"	"	"	"	X
110-82-7	Cyclohexane	< 0.081000	0.10000	< 0.28	0.34	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.049000	0.10000	< 0.23	0.46	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.053000	0.10000	< 0.36	0.67	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.052000	0.10000	< 0.28	0.54	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.067000	0.50000	< 0.24	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	0.15000	0.10000	0.61	0.41		"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.053000	0.10000	< 0.22	0.41	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.066000	0.10000	< 0.36	0.55	U	"	"	"	"	X
108-88-3	Toluene	2.7600	0.10000	10.39	0.38		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.042000	0.10000	< 0.17	0.41	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.059000	0.10000	< 0.50	0.85	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.043000	0.10000	< 0.33	0.77	U	"	"	"	"	X
127-18-4	Tetrachloroethene	0.24000	0.10000	1.63	0.68		"	"	"	"	X
108-90-7	Chlorobenzene	< 0.061000	0.10000	< 0.28	0.46	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.047000	0.10000	< 0.32	0.69	U	"	"	"	"	
100-41-4	Ethylbenzene	0.16000	0.10000	0.69	0.43		"	"	"	"	X
179601-23-1	m,p-Xylene	0.51000	0.20000	2.21	0.87		"	"	"	"	X
75-25-2	Bromoform	< 0.046000	0.10000	< 0.48	1.03	U	"	"	"	"	X
100-42-5	Styrene	0.71000	0.10000	3.02	0.43		"	"	"	"	X
95-47-6	o-Xylene	0.19000	0.10000	0.82	0.43		"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.066000	0.10000	< 0.45	0.69	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.056000	0.10000	< 0.28	0.49	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	0.070000	0.10000	0.34	0.49	J	"	"	"	"	X
622-96-8	4-Ethyltoluene	0.070000	0.10000	0.34	0.49	J	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	0.24000	0.10000	1.18	0.49		"	"	"	"	X
91-20-3	Naphthalene	< 0.18300	0.50000	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.055000	0.10000	< 0.33	0.60	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.062000	0.10000	< 0.32	0.52	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.061000	0.10000	< 0.37	0.60	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B3-IA1-030211 SB25245-04	K0336	Air	03-Mar-11 09:45	03-Mar-11

Air Quality Analyses

EPA TO-15 Low Level — ppbv — Prepared 10-Mar-11, Dilution: 1 — Can pressure: -3, Can ID: 5566

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
135-98-8	sec-Butylbenzene	< 0.052000	0.10000	< 0.29	0.55	U	EPA TO-15	10-Mar-11	KRL	1104208	
99-87-6	4-Isopropyltoluene	< 0.062000	0.10000	< 0.33	0.54	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.053000	0.10000	< 0.32	0.60	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.056000	0.10000	< 0.31	0.55	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.053000	0.10000	< 0.39	0.74	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.040000	0.10000	< 0.43	1.07	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-SS1-030211	K0336	Soil Gas	03-Mar-11 12:05	03-Mar-11
SB25245-05				

Air Quality Analyses

EPA TO-15 | ppbv | Prepared 08-Mar-11 Dilution: 1 | GS | Can pressure: -4 Can ID: 1657

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
115-07-1	Propene	< 0.0930	0.500	< 0.16	0.86	U	EPA TO-15	08-Mar-11	KG	1104127	
75-71-8	Dichlorodifluoromethane (Freon12)	0.660	0.500	3.26	2.47		"	"	"	"	X
74-87-3	Chloromethane	< 0.455	0.500	< 0.94	1.03	U	"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.390	0.500	< 2.73	3.49	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.278	0.500	< 0.71	1.28	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.149	0.500	< 0.33	1.10	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.249	0.500	< 0.97	1.94	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.219	0.500	< 0.58	1.32	U	"	"	"	"	X
67-64-1	Acetone	< 0.271	0.500	< 0.64	1.19	U	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.379	0.500	< 2.13	2.81	U	"	"	"	"	X
64-17-5	Ethanol	< 0.440	0.500	< 0.83	0.94	U	"	"	"	"	
107-13-1	Acrylonitrile	< 0.0700	0.500	< 0.15	1.08	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.163	0.500	< 0.65	1.98	U UJ	"	"	"	"	X
75-09-2	Methylene chloride	< 0.129	0.500	< 0.45	1.74	U UJ	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.202	0.500	< 1.55	3.83	U	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.185	0.500	< 0.58	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.0660	0.500	< 0.26	1.98	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.150	0.500	< 0.61	2.02	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.0780	0.500	< 0.28	1.80	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	0.300	0.500	0.74	1.23	J	"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.680	0.500	2.01	1.47		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.101	0.500	< 0.40	1.98	U	"	"	"	"	X
110-54-3	Hexane	0.560	0.500	1.97	1.76		"	"	"	"	X
141-78-6	Ethyl acetate	< 0.334	0.500	< 1.20	1.80	U	"	"	"	"	
67-66-3	Chloroform	0.260	0.500	1.27	2.43	J	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.167	0.500	< 0.49	1.47	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.162	0.500	< 0.66	2.02	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	0.300	0.500	1.64	2.73	J	"	"	"	"	X
71-43-2	Benzene	< 0.100	0.500	< 0.32	1.60	U	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.176	0.500	< 1.11	3.15	U	"	"	"	"	X
110-82-7	Cyclohexane	< 0.0640	0.500	< 0.22	1.72	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.0730	0.500	< 0.34	2.31	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.127	0.500	< 0.85	3.35	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.0800	0.500	< 0.43	2.69	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.0870	0.500	< 0.31	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	< 0.284	0.500	< 1.16	2.05	U	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.132	0.500	< 0.54	2.05	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.104	0.500	< 0.47	2.27	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.0670	0.500	< 0.30	2.27	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.125	0.500	< 0.68	2.73	U	"	"	"	"	X
108-88-3	Toluene	2.46	0.500	9.26	1.88		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.106	0.500	< 0.43	2.05	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.130	0.500	< 1.11	4.26	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.0890	0.500	< 0.68	3.84	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-SS1-030211	K0336	Soil Gas	03-Mar-11 12:05	03-Mar-11
SB25245-05				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15		ppbv	Prepared 08-Mar-11 Dilution: 1			GS	Can pressure: -4 Can ID: 1657				
127-18-4	Tetrachloroethene	18.7	0.500	126.81	3.39		EPA TO-15	08-Mar-11	KG	1104127	X
108-90-7	Chlorobenzene	< 0.132	0.500	< 0.61	2.30	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.164	0.500	< 1.13	3.44	U	"	"	"	"	
100-41-4	Ethylbenzene	< 0.0620	0.500	< 0.27	2.17	U	"	"	"	"	X
179601-23-1	m,p-Xylene	0.380	0.500	1.65	2.17	J	"	"	"	"	X
75-25-2	Bromoform	< 0.153	0.500	< 1.58	5.17	U	"	"	"	"	X
100-42-5	Styrene	< 0.0500	0.500	< 0.21	2.13	U	"	"	"	"	X
95-47-6	o-Xylene	< 0.110	0.500	< 0.48	2.17	U	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.170	0.500	< 1.17	3.43	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.0930	0.500	< 0.46	2.46	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.211	0.500	< 1.04	2.46	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.0940	0.500	< 0.46	2.46	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 0.0890	0.500	< 0.44	2.46	U	"	"	"	"	X
91-20-3	Naphthalene	< 0.183	0.500	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.124	0.500	< 0.75	3.01	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.164	0.500	< 0.85	2.58	U UJ	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.170	0.500	< 1.02	3.01	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.125	0.500	< 0.69	2.74	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.0880	0.500	< 0.47	2.68	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.150	0.500	< 0.90	3.01	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.0930	0.500	< 0.51	2.74	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.335	0.500	< 2.49	3.71	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.140	0.500	< 1.49	5.33	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-IA1-030211 SB25245-06	K0336	Air	03-Mar-11 09:52	03-Mar-11

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15		ppbv	Prepared 11-Mar-11 Dilution: 1				Can pressure: 0 Can ID: 1363				
115-07-1	Propene	< 0.0930	0.500	< 0.16	0.86	U	EPA TO-15	11-Mar-11	KG	1104256	
75-71-8	Dichlorodifluoromethane (Freon12)	0.670	0.500	3.31	2.47		"	"	"	"	X
74-87-3	Chloromethane	0.570	0.500	1.18	1.03		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.390	0.500	< 2.73	3.49	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.278	0.500	< 0.71	1.28	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.149	0.500	< 0.33	1.10	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.249	0.500	< 0.97	1.94	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.219	0.500	< 0.58	1.32	U	"	"	"	"	X
67-64-1	Acetone	7.43	0.500	17.66	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.379	0.500	< 2.13	2.81	U	"	"	"	"	X
64-17-5	Ethanol	11.4	0.500	21.49	0.94		"	"	"	"	
107-13-1	Acrylonitrile	< 0.0700	0.500	< 0.15	1.08	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.163	0.500	< 0.65	1.98	U	"	"	"	"	X
75-09-2	Methylene chloride	0.800	0.500	2.78	1.74		"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.202	0.500	< 1.55	3.83	U	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.185	0.500	< 0.58	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.0660	0.500	< 0.26	1.98	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.150	0.500	< 0.61	2.02	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.0780	0.500	< 0.28	1.80	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	0.900	0.500	2.21	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.340	0.500	1.00	1.47	J	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.101	0.500	< 0.40	1.98	U	"	"	"	"	X
110-54-3	Hexane	0.160	0.500	0.56	1.76	J	"	"	"	"	X
141-78-6	Ethyl acetate	< 0.334	0.500	< 1.20	1.80	U	"	"	"	"	
67-66-3	Chloroform	< 0.175	0.500	< 0.85	2.43	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.167	0.500	< 0.49	1.47	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.162	0.500	< 0.66	2.02	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.159	0.500	< 0.87	2.73	U	"	"	"	"	X
71-43-2	Benzene	0.170	0.500	0.54	1.60	J	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.176	0.500	< 1.11	3.15	U	"	"	"	"	X
110-82-7	Cyclohexane	< 0.0640	0.500	< 0.22	1.72	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.0730	0.500	< 0.34	2.31	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.127	0.500	< 0.85	3.35	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.0800	0.500	< 0.43	2.69	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.0870	0.500	< 0.31	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	< 0.284	0.500	< 1.16	2.05	U	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.132	0.500	< 0.54	2.05	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.104	0.500	< 0.47	2.27	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.0670	0.500	< 0.30	2.27	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.125	0.500	< 0.68	2.73	U	"	"	"	"	X
108-88-3	Toluene	0.610	0.500	2.30	1.88		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.106	0.500	< 0.43	2.05	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.130	0.500	< 1.11	4.26	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.0890	0.500	< 0.68	3.84	U	"	"	"	"	X

See the original Sample analysis at 1-fold dilution #

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-IA1-030211 SB25245-06	K0336	Air	03-Mar-11 09:52	03-Mar-11

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
EPA TO-15		ppbv	Prepared 11-Mar-11 Dilution: 1				Can pressure: 0 Can ID: 1363				
127-18-4	Tetrachloroethene	0.130	0.500	0.88	3.39	J	EPA TO-15	11-Mar-11	KG	1104256	X
108-90-7	Chlorobenzene	< 0.132	0.500	< 0.61	2.30	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.164	0.500	< 1.13	3.44	U	"	"	"	"	
100-41-4	Ethylbenzene	0.120	0.500	0.52	2.17	J	"	"	"	"	X
179601-23-1	m,p-Xylene	0.300	0.500	1.30	2.17	J	"	"	"	"	X
75-25-2	Bromoform	< 0.153	0.500	< 1.58	5.17	U	"	"	"	"	X
100-42-5	Styrene	0.130	0.500	0.55	2.13	J	"	"	"	"	X
95-47-6	o-Xylene	< 0.110	0.500	< 0.48	2.17	U	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.170	0.500	< 1.17	3.43	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.0930	0.500	< 0.46	2.46	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.211	0.500	< 1.04	2.46	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.0940	0.500	< 0.46	2.46	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 0.0890	0.500	< 0.44	2.46	U	"	"	"	"	X
91-20-3	Naphthalene	< 0.183	0.500	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.124	0.500	< 0.75	3.01	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.164	0.500	< 0.85	2.58	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.170	0.500	< 1.02	3.01	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.125	0.500	< 0.69	2.74	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.0880	0.500	< 0.47	2.68	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.150	0.500	< 0.90	3.01	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.0930	0.500	< 0.51	2.74	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.335	0.500	< 2.49	3.71	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.140	0.500	< 1.49	5.33	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*108*		*70-130 %*			"	"	"	"	
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: 0 Can ID: 1363				
115-07-1	Propene	< 0.084000	0.10000	< 0.14	0.17	U	"	10-Mar-11	"	1104208	
75-71-8	Dichlorodifluoromethane (Freon12)	0.48000	0.10000	2.37	0.49		"	"	"	"	X
74-87-3	Chloromethane	0.49000	0.10000	1.01	0.21		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.057000	0.10000	< 0.40	0.70	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.064000	0.10000	< 0.16	0.26	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.055000	0.10000	< 0.12	0.22	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.052000	0.10000	< 0.20	0.39	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.076000	0.10000	< 0.20	0.26	U	"	"	"	"	X
67-64-1	Acetone	3.6300	0.50000	8.63	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	0.27000	0.10000	1.52	0.56		"	"	"	"	X
64-17-5	Ethanol	10.880	0.50000	20.51 21.5	0.94	E	"	"	"	"	
107-13-1	Acrylonitrile	< 0.064000	0.10000	< 0.14	0.22	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.073000	0.10000	< 0.29	0.40	U	"	"	"	"	X
75-09-2	Methylene chloride	0.82000	0.10000	2.85	0.35		"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.090000	0.10000	0.69	0.77	J	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.057000	0.50000	< 0.18	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.042000	0.10000	< 0.17	0.40	U	"	"	"	"	X

See the original sample

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Reported from 5-fold dilution

23

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-IA1-030211 SB25245-06	K0336	Air	03-Mar-11 09:52	03-Mar-11

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: 0 Can ID: 1363				
75-34-3	1,1-Dichloroethane	< 0.049000	0.10000	< 0.20	0.40	U	EPA TO-15	10-Mar-11	KRL	1104208	X
1634-04-4	Methyl tert-butyl ether	< 0.049000	0.10000	< 0.18	0.36	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	1.4000	0.50000	3.44	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.85000	0.10000	2.51	0.29		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.049000	0.10000	< 0.19	0.40	U	"	"	"	"	X
110-54-3	Hexane	0.21000	0.50000	0.74	1.76	J	"	"	"	"	X
141-78-6	Ethyl acetate	1.0200	0.10000	3.68	0.36		"	"	"	"	
67-66-3	Chloroform	< 0.045000	0.10000	< 0.22	0.49	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.053000	0.10000	< 0.16	0.29	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	0.080000	0.10000	0.32	0.40	J	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.052000	0.10000	< 0.28	0.55	U	"	"	"	"	X
71-43-2	Benzene	0.24000	0.10000	0.77	0.32		"	"	"	"	X
56-23-5	Carbon tetrachloride	0.080000	0.10000	0.50	0.63	J	"	"	"	"	X
110-82-7	Cyclohexane	< 0.081000	0.10000	< 0.28	0.34	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.049000	0.10000	< 0.23	0.46	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.053000	0.10000	< 0.36	0.67	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.052000	0.10000	< 0.28	0.54	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.067000	0.50000	< 0.24	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	0.090000	0.10000	0.37	0.41	J	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	0.070000	0.10000	0.29	0.41	J	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.066000	0.10000	< 0.36	0.55	U	"	"	"	"	X
108-88-3	Toluene	1.0500	0.10000	3.95	0.38		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.042000	0.10000	< 0.17	0.41	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.059000	0.10000	< 0.50	0.85	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.043000	0.10000	< 0.33	0.77	U	"	"	"	"	X
127-18-4	Tetrachloroethene	0.16000	0.10000	1.08	0.68		"	"	"	"	X
108-90-7	Chlorobenzene	< 0.061000	0.10000	< 0.28	0.46	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.047000	0.10000	< 0.32	0.69	U	"	"	"	"	
100-41-4	Ethylbenzene	0.24000	0.10000	1.04	0.43		"	"	"	"	X
179601-23-1	m,p-Xylene	0.57000	0.20000	2.47	0.87		"	"	"	"	X
75-25-2	Bromoform	< 0.046000	0.10000	< 0.48	1.03	U	"	"	"	"	X
100-42-5	Styrene	0.37000	0.10000	1.57	0.43		"	"	"	"	X
95-47-6	o-Xylene	0.22000	0.10000	0.95	0.43		"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.066000	0.10000	< 0.45	0.69	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.056000	0.10000	< 0.28	0.49	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.046000	0.10000	< 0.23	0.49	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.055000	0.10000	< 0.27	0.49	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	0.16000	0.10000	0.79	0.49		"	"	"	"	X
91-20-3	Naphthalene	0.31000	0.50000	1.62	2.62	J	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.055000	0.10000	< 0.33	0.60	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.062000	0.10000	< 0.32	0.52	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.061000	0.10000	< 0.37	0.60	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-IA1-030211 SB25245-06	K0336	Air	03-Mar-11 09:52	03-Mar-11

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: 0 Can ID: 1363				
135-98-8	sec-Butylbenzene	< 0.052000	0.10000	< 0.29	0.55	U	EPA TO-15	10-Mar-11	KRL	1104208	
99-87-6	4-Isopropyltoluene	< 0.062000	0.10000	< 0.33	0.54	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.053000	0.10000	< 0.32	0.60	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.056000	0.10000	< 0.31	0.55	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.053000	0.10000	< 0.39	0.74	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.040000	0.10000	< 0.43	1.07	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*98*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-IA2-030211	K0336	Air	03-Mar-11 10:00	03-Mar-11
SB25245-07				

Air Quality Analyses

EPA TO-15 — ppbv — Prepared 08-Mar-11, Dilution: 1 — Can pressure: 0, Can ID: 0217

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
115-07-1	Propene	< 0.0930	0.500	< 0.16	0.86	U	EPA TO-15	08-Mar-11	KG	1104127	
75-71-8	Dichlorodifluoromethane (Freon12)	0.660	0.500	3.26	2.47		"	"	"	"	X
74-87-3	Chloromethane	0.500	0.500	1.03	1.03		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.390	0.500	< 2.73	3.49	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.278	0.500	< 0.71	1.28	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.149	0.500	< 0.33	1.10	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.249	0.500	< 0.97	1.94	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.219	0.500	< 0.58	1.32	U	"	"	"	"	X
67-64-1	Acetone	4.65	0.500	11.05	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.379	0.500	< 2.13	2.81	U	"	"	"	"	X
64-17-5	Ethanol	8.80	0.500	16.59	0.94		"	"	"	"	
107-13-1	Acrylonitrile	< 0.0700	0.500	< 0.15	1.08	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.163	0.500	< 0.65	1.98	U	"	"	"	"	X
75-09-2	Methylene chloride	3.65	0.500	12.67	1.74		"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.202	0.500	< 1.55	3.83	U	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.185	0.500	< 0.58	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.0660	0.500	< 0.26	1.98	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.150	0.500	< 0.61	2.02	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.0780	0.500	< 0.28	1.80	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	2.83	0.500	6.94	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.870	0.500	2.57	1.47		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.101	0.500	< 0.40	1.98	U	"	"	"	"	X
110-54-3	Hexane	1.16	0.500	4.09	1.76		"	"	"	"	X
141-78-6	Ethyl acetate	1.11	0.500	4.00	1.80		"	"	"	"	
67-66-3	Chloroform	< 0.175	0.500	< 0.85	2.43	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.167	0.500	< 0.49	1.47	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	0.240	0.500	0.97	2.02	J	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.159	0.500	< 0.87	2.73	U	"	"	"	"	X
71-43-2	Benzene	0.310	0.500	0.99	1.60	J	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.176	0.500	< 1.11	3.15	U	"	"	"	"	X
110-82-7	Cyclohexane	< 0.0640	0.500	< 0.22	1.72	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.0730	0.500	< 0.34	2.31	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.127	0.500	< 0.85	3.35	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.0800	0.500	< 0.43	2.69	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.0870	0.500	< 0.31	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	< 0.284	0.500	< 1.16	2.05	U	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.132	0.500	< 0.54	2.05	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.104	0.500	< 0.47	2.27	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.0670	0.500	< 0.30	2.27	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.125	0.500	< 0.68	2.73	U	"	"	"	"	X
108-88-3	Toluene	0.890	0.500	3.35	1.88		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.106	0.500	< 0.43	2.05	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.130	0.500	< 1.11	4.26	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.0890	0.500	< 0.68	3.84	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-IA2-030211 SB25245-07	K0336	Air	03-Mar-11 10:00	03-Mar-11

Air Quality Analyses

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
EPA TO-15		ppbv	Prepared 08-Mar-11 Dilution: 1				Can pressure: 0 Can ID: 0217				
127-18-4	Tetrachloroethene	0.630	0.500	4.27	3.39		EPA TO-15	08-Mar-11	KG	1104127	X
108-90-7	Chlorobenzene	< 0.132	0.500	< 0.61	2.30	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.164	0.500	< 1.13	3.44	U	"	"	"	"	
100-41-4	Ethylbenzene	0.230	0.500	1.00	2.17	J	"	"	"	"	X
179601-23-1	m,p-Xylene	0.290	0.500	1.26	2.17	J	"	"	"	"	X
75-25-2	Bromoform	< 0.153	0.500	< 1.58	5.17	U	"	"	"	"	X
100-42-5	Styrene	< 0.0500	0.500	< 0.21	2.13	U	"	"	"	"	X
95-47-6	o-Xylene	< 0.110	0.500	< 0.48	2.17	U	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.170	0.500	< 1.17	3.43	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.0930	0.500	< 0.46	2.46	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.211	0.500	< 1.04	2.46	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.0940	0.500	< 0.46	2.46	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 0.0890	0.500	< 0.44	2.46	U	"	"	"	"	X
91-20-3	Naphthalene	< 0.183	0.500	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.124	0.500	< 0.75	3.01	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.164	0.500	< 0.85	2.58	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.170	0.500	< 1.02	3.01	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.125	0.500	< 0.69	2.74	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.0880	0.500	< 0.47	2.68	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.150	0.500	< 0.90	3.01	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.0930	0.500	< 0.51	2.74	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.335	0.500	< 2.49	3.71	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.140	0.500	< 1.49	5.33	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*70-130 %*			"	"	"	"	
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: 0 Can ID: 0217				
115-07-1	Propene	< 0.084000	0.10000	< 0.14	0.17	U	"	10-Mar-11	"	1104208	
75-71-8	Dichlorodifluoromethane (Freon12)	0.47000	0.10000	2.32	0.49		"	"	"	"	X
74-87-3	Chloromethane	0.43000	0.10000	0.89	0.21		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.057000	0.10000	< 0.40	0.70	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.064000	0.10000	< 0.16	0.26	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.055000	0.10000	< 0.12	0.22	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.052000	0.10000	< 0.20	0.39	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.076000	0.10000	< 0.20	0.26	U	"	"	"	"	X
67-64-1	Acetone	7.6700	0.50000	18.23	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	0.22000	0.10000	1.24	0.56		"	"	"	"	X
64-17-5	Ethanol	10.380	0.50000	19.57	0.94		"	"	"	"	
107-13-1	Acrylonitrile	< 0.064000	0.10000	< 0.14	0.22	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.073000	0.10000	< 0.29	0.40	U	"	"	"	"	X
75-09-2	Methylene chloride	2.0400	0.10000	7.08	0.35		"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.080000	0.10000	0.61	0.77	J	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.057000	0.50000	< 0.18	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.042000	0.10000	< 0.17	0.40	U	"	"	"	"	X

Reported from original sample run. See the 5-fold dilution.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-IA2-030211 SB25245-07	K0336	Air	03-Mar-11 10:00	03-Mar-11

Air Quality Analyses

EPA TO-15 Low Level — ppbv — Prepared 10-Mar-11, Dilution: 1 — Can pressure: 0, Can ID: 0217

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
75-34-3	1,1-Dichloroethane	< 0.049000	0.10000	< 0.20	0.40	U	EPA TO-15	10-Mar-11	KRL	1104208	X
1634-04-4	Methyl tert-butyl ether	< 0.049000	0.10000	< 0.18	0.36	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	2.5300	0.50000	6.21	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.89000	0.10000	2.62	0.29		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.049000	0.10000	< 0.19	0.40	U	"	"	"	"	X
110-54-3	Hexane	1.2600	0.50000	4.44	1.76		"	"	"	"	X
141-78-6	Ethyl acetate	0.77000	0.10000	2.77	0.36		"	"	"	"	
67-66-3	Chloroform	< 0.045000	0.10000	< 0.22	0.49	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.053000	0.10000	< 0.16	0.29	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	0.20000	0.10000	0.81	0.40		"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.052000	0.10000	< 0.28	0.55	U	"	"	"	"	X
71-43-2	Benzene	0.26000	0.10000	0.83	0.32		"	"	"	"	X
56-23-5	Carbon tetrachloride	0.070000	0.10000	0.44	0.63	J	"	"	"	"	X
110-82-7	Cyclohexane	0.13000	0.10000	0.45	0.34		"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.049000	0.10000	< 0.23	0.46	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.053000	0.10000	< 0.36	0.67	U	"	"	"	"	X
79-01-6	Trichloroethene	0.080000	0.10000	0.43	0.54	J	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.067000	0.50000	< 0.24	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	0.13000	0.10000	0.53	0.41		"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	0.16000	0.10000	0.66	0.41		"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.066000	0.10000	< 0.36	0.55	U	"	"	"	"	X
108-88-3	Toluene	0.90000	0.10000	3.39	0.38		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.042000	0.10000	< 0.17	0.41	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.059000	0.10000	< 0.50	0.85	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.043000	0.10000	< 0.33	0.77	U	"	"	"	"	X
127-18-4	Tetrachloroethene	0.57000	0.10000	3.87	0.68		"	"	"	"	X
108-90-7	Chlorobenzene	< 0.061000	0.10000	< 0.28	0.46	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.047000	0.10000	< 0.32	0.69	U	"	"	"	"	
100-41-4	Ethylbenzene	0.21000	0.10000	0.91	0.43		"	"	"	"	X
179601-23-1	m,p-Xylene	0.25000	0.20000	1.08	0.87		"	"	"	"	X
75-25-2	Bromoform	< 0.046000	0.10000	< 0.48	1.03	U	"	"	"	"	X
100-42-5	Styrene	0.080000	0.10000	0.34	0.43	J	"	"	"	"	X
95-47-6	o-Xylene	0.070000	0.10000	0.30	0.43	J	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.066000	0.10000	< 0.45	0.69	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.056000	0.10000	< 0.28	0.49	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.046000	0.10000	< 0.23	0.49	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.055000	0.10000	< 0.27	0.49	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 0.039000	0.10000	< 0.19	0.49	U	"	"	"	"	X
91-20-3	Naphthalene	< 0.18300	0.50000	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.055000	0.10000	< 0.33	0.60	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.062000	0.10000	< 0.32	0.52	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.061000	0.10000	< 0.37	0.60	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-IA2-030211 SB25245-07	K0336	Air	03-Mar-11 10:00	03-Mar-11

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: 0 Can ID: 0217				
135-98-8	sec-Butylbenzene	< 0.052000	0.10000	< 0.29	0.55	U	EPA TO-15	10-Mar-11	KRL	1104208	
99-87-6	4-Isopropyltoluene	< 0.062000	0.10000	< 0.33	0.54	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.053000	0.10000	< 0.32	0.60	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.056000	0.10000	< 0.31	0.55	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.053000	0.10000	< 0.39	0.74	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.040000	0.10000	< 0.43	1.07	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*96*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B2-SS1-030211	K0336	Soil Gas	03-Mar-11 13:50	03-Mar-11
SB25245-08				

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 2			AirP	Can pressure: -15 Can ID: 0498				
115-07-1	Propene	1.4000	0.20000	2.41	0.34		EPA TO-15	10-Mar-11	KRL	1104208	
75-71-8	Dichlorodifluoromethane (Freon12)	0.86000	0.20000	4.25	0.99		"	"	"	"	X
74-87-3	Chloromethane	0.52000	0.20000	1.07	0.41		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.11400	0.20000	< 0.80	1.40	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.12800	0.20000	< 0.33	0.51	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.11000	0.20000	< 0.24	0.44	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.10400	0.20000	< 0.40	0.78	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.15200	0.20000	< 0.40	0.53	U	"	"	"	"	X
67-64-1	Acetone	10.680	1.0000	25.38	2.38		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	0.50000	0.20000	2.81	1.12		"	"	"	"	X
64-17-5	Ethanol	9.6600	1.0000	18.21	1.89		"	"	"	"	
107-13-1	Acrylonitrile	< 0.12800	0.20000	< 0.28	0.43	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.14600	0.20000	< 0.58	0.79	U	"	"	"	"	X
75-09-2	Methylene chloride	0.30000	0.20000	1.04	0.69		"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.16000	0.20000	1.23	1.53	J	"	"	"	"	X
75-15-0	Carbon disulfide	0.12000	1.0000	0.37	3.11	J	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.084000	0.20000	< 0.33	0.79	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	0.10000	0.20000	0.40	0.81	J	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.098000	0.20000	< 0.35	0.72	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	1.8000	1.0000	4.42	2.45		"	"	"	"	X
78-93-3	2-Butanone (MEK)	1.6000	0.20000	4.72	0.59		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.098000	0.20000	< 0.39	0.79	U	"	"	"	"	X
110-54-3	Hexane	2.6600	1.0000	9.38	3.53		"	"	"	"	X
141-78-6	Ethyl acetate	2.7600	0.20000	9.95	0.72		"	"	"	"	
67-66-3	Chloroform	0.10000	0.20000	0.49	0.97	J	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.10600	0.20000	< 0.31	0.59	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.092000	0.20000	< 0.37	0.81	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	0.84000	0.20000	4.58	1.09		"	"	"	"	X
71-43-2	Benzene	0.52000	0.20000	1.66	0.64		"	"	"	"	X
56-23-5	Carbon tetrachloride	0.12000	0.20000	0.75	1.26	J	"	"	"	"	X
110-82-7	Cyclohexane	< 0.16200	0.20000	< 0.56	0.69	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.098000	0.20000	< 0.45	0.92	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.10600	0.20000	< 0.71	1.34	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.10400	0.20000	< 0.56	1.07	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.13400	1.0000	< 0.48	3.60	U	"	"	"	"	X
142-82-5	n-Heptane	0.14000	0.20000	0.57	0.82	J	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.10600	0.20000	< 0.43	0.82	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.094000	0.20000	< 0.43	0.91	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.094000	0.20000	< 0.43	0.91	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.13200	0.20000	< 0.72	1.09	U	"	"	"	"	X
108-88-3	Toluene	5.1200	0.20000	19.27	0.75		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.084000	0.20000	< 0.34	0.82	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.11800	0.20000	< 1.01	1.70	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.086000	0.20000	< 0.66	1.54	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B2-SS1-030211	K0336	Soil Gas	03-Mar-11 13:50	03-Mar-11
SB25245-08				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 2			AirP	Can pressure: -15 Can ID: 0498				
127-18-4	Tetrachloroethene	0.74000	0.20000	5.02	1.36		EPA TO-15	10-Mar-11	KRL	1104208	X
108-90-7	Chlorobenzene	< 0.12200	0.20000	< 0.56	0.92	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.094000	0.20000	< 0.65	1.37	U	"	"	"	"	
100-41-4	Ethylbenzene	0.16000	0.20000	0.69	0.87	J	"	"	"	"	X
179601-23-1	m,p-Xylene	0.30000	0.40000	1.30	1.73	J	"	"	"	"	X
75-25-2	Bromoform	< 0.092000	0.20000	< 0.95	2.07	U	"	"	"	"	X
100-42-5	Styrene	< 0.10600	0.20000	< 0.45	0.85	U	"	"	"	"	X
95-47-6	o-Xylene	< 0.12200	0.20000	< 0.53	0.87	U	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.13200	0.20000	< 0.91	1.37	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.11200	0.20000	< 0.55	0.98	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.092000	0.20000	< 0.45	0.98	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.11000	0.20000	< 0.54	0.98	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 0.078000	0.20000	< 0.38	0.98	U	"	"	"	"	X
91-20-3	Naphthalene	< 0.36600	1.0000	< 1.92	5.24	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.11000	0.20000	< 0.66	1.20	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.12400	0.20000	< 0.64	1.03	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.12200	0.20000	< 0.73	1.20	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.10400	0.20000	< 0.57	1.10	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.12400	0.20000	< 0.67	1.07	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.10600	0.20000	< 0.64	1.20	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.11200	0.20000	< 0.61	1.10	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.10600	0.20000	< 0.79	1.48	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.080000	0.20000	< 0.85	2.13	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*94*		*70-130 %*			"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SG-1-030311	K0336	Soil Gas	03-Mar-11 11:10	03-Mar-11
SB25245-09				

Air Quality Analyses

EPA TO-15 | ppbv | Prepared 11-Mar-11, Dilution: 1 | Can pressure: -1, Can ID: 0471

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
115-07-1	Propene	1.29	0.500	2.22	0.86		EPA TO-15	11-Mar-11	KG	1104256	
75-71-8	Dichlorodifluoromethane (Freon12)	0.660	0.500	3.26	2.47		"	"	"	"	X
74-87-3	Chloromethane	< 0.455	0.500	< 0.94	1.03	U	"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.390	0.500	< 2.73	3.49	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.278	0.500	< 0.71	1.28	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.149	0.500	< 0.33	1.10	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.249	0.500	< 0.97	1.94	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.219	0.500	< 0.58	1.32	U	"	"	"	"	X
67-64-1	Acetone	9.96	0.500	23.67	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.379	0.500	< 2.13	2.81	U	"	"	"	"	X
64-17-5	Ethanol	1.66	0.500	3.13	0.94		"	"	"	"	
107-13-1	Acrylonitrile	< 0.0700	0.500	< 0.15	1.08	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.163	0.500	< 0.65	1.98	U	"	"	"	"	X
75-09-2	Methylene chloride	< 0.129	0.500	< 0.45	1.74	U	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.202	0.500	< 1.55	3.83	U	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.185	0.500	< 0.58	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.0660	0.500	< 0.26	1.98	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.150	0.500	< 0.61	2.02	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.0780	0.500	< 0.28	1.80	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	< 0.212	0.500	< 0.52	1.23	U	"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.310	0.500	0.91	1.47	J	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.101	0.500	< 0.40	1.98	U	"	"	"	"	X
110-54-3	Hexane	0.380	0.500	1.34	1.76	J	"	"	"	"	X
141-78-6	Ethyl acetate	< 0.334	0.500	< 1.20	1.80	U	"	"	"	"	
67-66-3	Chloroform	< 0.175	0.500	< 0.85	2.43	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.167	0.500	< 0.49	1.47	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.162	0.500	< 0.66	2.02	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.159	0.500	< 0.87	2.73	U	"	"	"	"	X
71-43-2	Benzene	0.370	0.500	1.18	1.60	J	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.176	0.500	< 1.11	3.15	U	"	"	"	"	X
110-82-7	Cyclohexane	< 0.0640	0.500	< 0.22	1.72	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.0730	0.500	< 0.34	2.31	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.127	0.500	< 0.85	3.35	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.0800	0.500	< 0.43	2.69	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.0870	0.500	< 0.31	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	< 0.284	0.500	< 1.16	2.05	U	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.132	0.500	< 0.54	2.05	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.104	0.500	< 0.47	2.27	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.0670	0.500	< 0.30	2.27	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.125	0.500	< 0.68	2.73	U	"	"	"	"	X
108-88-3	Toluene	27.6	0.500	103.85	1.88		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.106	0.500	< 0.43	2.05	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.130	0.500	< 1.11	4.26	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.0890	0.500	< 0.68	3.84	U	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SG-1-030311 SB25245-09	K0336	Soil Gas	03-Mar-11 11:10	03-Mar-11

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
EPA TO-15		ppbv	Prepared 11-Mar-11 Dilution: 1				Can pressure: -1 Can ID: 0471				
127-18-4	Tetrachloroethene	0.190	0.500	1.29	3.39	J	EPA TO-15	11-Mar-11	KG	1104256	X
108-90-7	Chlorobenzene	< 0.132	0.500	< 0.61	2.30	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.164	0.500	< 1.13	3.44	U	"	"	"	"	
100-41-4	Ethylbenzene	0.290	0.500	1.26	2.17	J	"	"	"	"	X
179601-23-1	m,p-Xylene	1.34	0.500	5.81	2.17		"	"	"	"	X
75-25-2	Bromoform	< 0.153	0.500	< 1.58	5.17	U	"	"	"	"	X
100-42-5	Styrene	< 0.0500	0.500	< 0.21	2.13	U	"	"	"	"	X
95-47-6	o-Xylene	0.220	0.500	0.95	2.17	J	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.170	0.500	< 1.17	3.43	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.0930	0.500	< 0.46	2.46	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.211	0.500	< 1.04	2.46	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.0940	0.500	< 0.46	2.46	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	0.140	0.500	0.69	2.46	J	"	"	"	"	X
91-20-3	Naphthalene	< 0.183	0.500	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.124	0.500	< 0.75	3.01	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.164	0.500	< 0.85	2.58	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.170	0.500	< 1.02	3.01	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.125	0.500	< 0.69	2.74	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.0880	0.500	< 0.47	2.68	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.150	0.500	< 0.90	3.01	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.0930	0.500	< 0.51	2.74	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.335	0.500	< 2.49	3.71	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.140	0.500	< 1.49	5.33	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*107*		*70-130 %*			"	"	"	"	
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: +1 Can ID: 0471				
115-07-1	Propene	1.0800	0.10000	1.86	0.17		"	10-Mar-11	"	1104208	
75-71-8	Dichlorodifluoromethane (Freon12)	0.43000	0.10000	2.13	0.49		"	"	"	"	X
74-87-3	Chloromethane	0.23000	0.10000	0.48	0.21		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.057000	0.10000	< 0.40	0.70	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.064000	0.10000	< 0.16	0.26	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.055000	0.10000	< 0.12	0.22	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.052000	0.10000	< 0.20	0.39	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.076000	0.10000	< 0.20	0.26	U	"	"	"	"	X
67-64-1	Acetone	9.8400	0.50000	23.38	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	0.26000	0.10000	1.46	0.56		"	"	"	"	X
64-17-5	Ethanol	1.3400	0.50000	2.53	0.94		"	"	"	"	
107-13-1	Acrylonitrile	< 0.064000	0.10000	< 0.14	0.22	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.073000	0.10000	< 0.29	0.40	U	"	"	"	"	X
75-09-2	Methylene chloride	0.090000	0.10000	0.31	0.35	J	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.090000	0.10000	0.69	0.77	J	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.057000	0.50000	< 0.18	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.042000	0.10000	< 0.17	0.40	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SG-1-030311 SB25245-09	K0336	Soil Gas	03-Mar-11 11:10	03-Mar-11

Air Quality Analyses

EPA TO-15 Low Level — ppbv — Prepared 10-Mar-11, Dilution: 1 — Can pressure: +1, Can ID: 0471

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
75-34-3	1,1-Dichloroethane	< 0.049000	0.10000	< 0.20	0.40	U	EPA TO-15	10-Mar-11	KRL	1104208	X
1634-04-4	Methyl tert-butyl ether	< 0.049000	0.10000	< 0.18	0.36	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	0.34000	0.50000	0.83	1.23	J	"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.87000	0.10000	2.57	0.29		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.049000	0.10000	< 0.19	0.40	U	"	"	"	"	X
110-54-3	Hexane	0.50000	0.50000	1.76	1.76		"	"	"	"	X
141-78-6	Ethyl acetate	< 0.082000	0.10000	< 0.30	0.36	U	"	"	"	"	
67-66-3	Chloroform	< 0.045000	0.10000	< 0.22	0.49	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.053000	0.10000	< 0.16	0.29	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.046000	0.10000	< 0.19	0.40	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	0.11000	0.10000	0.60	0.55		"	"	"	"	X
71-43-2	Benzene	0.51000	0.10000	1.63	0.32		"	"	"	"	X
56-23-5	Carbon tetrachloride	0.080000	0.10000	0.50	0.63	J	"	"	"	"	X
110-82-7	Cyclohexane	< 0.081000	0.10000	< 0.28	0.34	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.049000	0.10000	< 0.23	0.46	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.053000	0.10000	< 0.36	0.67	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.052000	0.10000	< 0.28	0.54	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.067000	0.50000	< 0.24	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	0.20000	0.10000	0.82	0.41		"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.053000	0.10000	< 0.22	0.41	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.066000	0.10000	< 0.36	0.55	U	"	"	"	"	X
108-88-3	Toluene	31.670	0.10000	119.17 103.7	0.38	E #	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.042000	0.10000	< 0.17	0.41	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.059000	0.10000	< 0.50	0.85	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.043000	0.10000	< 0.33	0.77	U	"	"	"	"	X
127-18-4	Tetrachloroethene	0.19000	0.10000	1.29	0.68		"	"	"	"	X
108-90-7	Chlorobenzene	< 0.061000	0.10000	< 0.28	0.46	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.047000	0.10000	< 0.32	0.69	U	"	"	"	"	
100-41-4	Ethylbenzene	0.49000	0.10000	2.12	0.43		"	"	"	"	X
179601-23-1	m,p-Xylene	1.8600	0.20000	8.06	0.87		"	"	"	"	X
75-25-2	Bromoform	< 0.046000	0.10000	< 0.48	1.03	U	"	"	"	"	X
100-42-5	Styrene	< 0.053000	0.10000	< 0.23	0.43	U	"	"	"	"	X
95-47-6	o-Xylene	0.43000	0.10000	1.86	0.43		"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.066000	0.10000	< 0.45	0.69	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.056000	0.10000	< 0.28	0.49	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	0.080000	0.10000	0.39	0.49	J	"	"	"	"	X
622-96-8	4-Ethyltoluene	0.17000	0.10000	0.84	0.49		"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	0.32000	0.10000	1.57	0.49		"	"	"	"	X
91-20-3	Naphthalene	< 0.18300	0.50000	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.055000	0.10000	< 0.33	0.60	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.062000	0.10000	< 0.32	0.52	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.061000	0.10000	< 0.37	0.60	U	"	"	"	"	X

Reported from 5-fold dilution

34

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SG-1-030311 SB25245-09	K0336	Soil Gas	03-Mar-11 11:10	03-Mar-11

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: +1 Can ID: 0471				
135-98-8	sec-Butylbenzene	< 0.052000	0.10000	< 0.29	0.55	U	EPA TO-15	10-Mar-11	KRL	1104208	
99-87-6	4-Isopropyltoluene	< 0.062000	0.10000	< 0.33	0.54	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.053000	0.10000	< 0.32	0.60	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.056000	0.10000	< 0.31	0.55	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.053000	0.10000	< 0.39	0.74	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.040000	0.10000	< 0.43	1.07	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*94*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-Dup-030211	K0336	Air	03-Mar-11 12:00	03-Mar-11
SB25245-10				

Air Quality Analyses

EPA TO-15 | ppbv | Prepared 08-Mar-11 Dilution: 1 | Can pressure: +1 Can ID: 470

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
115-07-1	Propene	< 0.0930	0.500	< 0.16	0.86	U	EPA TO-15	08-Mar-11	KG	1104127	
75-71-8	Dichlorodifluoromethane (Freon12)	0.660	0.500	3.26	2.47		"	"	"	"	X
74-87-3	Chloromethane	0.530	0.500	1.09	1.03		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.390	0.500	< 2.73	3.49	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.278	0.500	< 0.71	1.28	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.149	0.500	< 0.33	1.10	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.249	0.500	< 0.97	1.94	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.219	0.500	< 0.58	1.32	U	"	"	"	"	X
67-64-1	Acetone	6.56	0.500	15.59	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.379	0.500	< 2.13	2.81	U	"	"	"	"	X
64-17-5	Ethanol	7.58	0.500	14.29	0.94		"	"	"	"	
107-13-1	Acrylonitrile	< 0.0700	0.500	< 0.15	1.08	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.163	0.500	< 0.65	1.98	U UJ	"	"	"	"	X
75-09-2	Methylene chloride	1.29	0.500	4.48	1.74	J	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.202	0.500	< 1.55	3.83	U	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.185	0.500	< 0.58	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.0660	0.500	< 0.26	1.98	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.150	0.500	< 0.61	2.02	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.0780	0.500	< 0.28	1.80	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	1.32	0.500	3.24	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.730	0.500	2.15	1.47		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.101	0.500	< 0.40	1.98	U	"	"	"	"	X
110-54-3	Hexane	0.260	0.500	0.92	1.76	J	"	"	"	"	X
141-78-6	Ethyl acetate	1.06	0.500	3.82	1.80		"	"	"	"	
67-66-3	Chloroform	< 0.175	0.500	< 0.85	2.43	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.167	0.500	< 0.49	1.47	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.162	0.500	< 0.66	2.02	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.159	0.500	< 0.87	2.73	U	"	"	"	"	X
71-43-2	Benzene	0.260	0.500	0.83	1.60	J	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.176	0.500	< 1.11	3.15	U	"	"	"	"	X
110-82-7	Cyclohexane	< 0.0640	0.500	< 0.22	1.72	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.0730	0.500	< 0.34	2.31	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.127	0.500	< 0.85	3.35	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.0800	0.500	< 0.43	2.69	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.0870	0.500	< 0.31	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	< 0.284	0.500	< 1.16	2.05	U	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.132	0.500	< 0.54	2.05	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.104	0.500	< 0.47	2.27	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.0670	0.500	< 0.30	2.27	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.125	0.500	< 0.68	2.73	U	"	"	"	"	X
108-88-3	Toluene	0.900	0.500	3.39	1.88		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.106	0.500	< 0.43	2.05	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.130	0.500	< 1.11	4.26	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.0890	0.500	< 0.68	3.84	U	"	"	"	"	X

Re: the original Sample

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-Dup-030211	K0336	Air	03-Mar-11 12:00	03-Mar-11
SB25245-10				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15		ppbv	Prepared 08-Mar-11 Dilution: 1				Can pressure: +1 Can ID: 470				
127-18-4	Tetrachloroethene	0.330	0.500	2.24	3.39	J	EPA TO-15	08-Mar-11	KG	1104127	X
108-90-7	Chlorobenzene	< 0.132	0.500	< 0.61	2.30	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.164	0.500	< 1.13	3.44	U	"	"	"	"	
100-41-4	Ethylbenzene	< 0.0620	0.500	< 0.27	2.17	U	"	"	"	"	X
179601-23-1	m,p-Xylene	0.480	0.500	2.08	2.17	J	"	"	"	"	X
75-25-2	Bromoform	< 0.153	0.500	< 1.58	5.17	U	"	"	"	"	X
100-42-5	Styrene	< 0.0500	0.500	< 0.21	2.13	U	"	"	"	"	X
95-47-6	o-Xylene	< 0.110	0.500	< 0.48	2.17	U	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.170	0.500	< 1.17	3.43	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.0930	0.500	< 0.46	2.46	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.211	0.500	< 1.04	2.46	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.0940	0.500	< 0.46	2.46	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 0.0890	0.500	< 0.44	2.46	U	"	"	"	"	X
91-20-3	Naphthalene	< 0.183	0.500	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.124	0.500	< 0.75	3.01	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.164	0.500	< 0.85	2.58	U UJ	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.170	0.500	< 1.02	3.01	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.125	0.500	< 0.69	2.74	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.0880	0.500	< 0.47	2.68	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.150	0.500	< 0.90	3.01	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.0930	0.500	< 0.51	2.74	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.335	0.500	< 2.49	3.71	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.140	0.500	< 1.49	5.33	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*70-130 %*			"	"	"	"	
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: +1 Can ID: 470				
115-07-1	Propene	< 0.084000	0.10000	< 0.14	0.17	U	"	10-Mar-11	"	1104208	
75-71-8	Dichlorodifluoromethane (Freon12)	0.48000	0.10000	2.37	0.49		"	"	"	"	X
74-87-3	Chloromethane	0.50000	0.10000	1.03	0.21		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.057000	0.10000	< 0.40	0.70	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.064000	0.10000	< 0.16	0.26	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.055000	0.10000	< 0.12	0.22	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.052000	0.10000	< 0.20	0.39	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.076000	0.10000	< 0.20	0.26	U	"	"	"	"	X
67-64-1	Acetone	5.2500	0.50000	12.48	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	0.26000	0.10000	1.46	0.56		"	"	"	"	X
64-17-5	Ethanol	10.100	0.50000	~~19.04~~ 14.29	0.94	E *	"	"	"	"	
107-13-1	Acrylonitrile	< 0.064000	0.10000	< 0.14	0.22	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.073000	0.10000	< 0.29	0.40	U	"	"	"	"	X
75-09-2	Methylene chloride	0.82000	0.10000	2.85	0.35		"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.070000	0.10000	0.54	0.77	J	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.057000	0.50000	< 0.18	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.042000	0.10000	< 0.17	0.40	U	"	"	"	"	X

* Reported from 5-fold dilution

37

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-Dup-030211	K0336	Air	03-Mar-11 12:00	03-Mar-11
SB25245-10				

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: +1 Can ID: 470				
75-34-3	1,1-Dichloroethane	< 0.049000	0.10000	< 0.20	0.40	U	EPA TO-15	10-Mar-11	KRL	1104208	X
1634-04-4	Methyl tert-butyl ether	< 0.049000	0.10000	< 0.18	0.36	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	1.2800	0.50000	3.14	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.84000	0.10000	2.48	0.29		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.049000	0.10000	< 0.19	0.40	U	"	"	"	"	X
110-54-3	Hexane	0.26000	0.50000	0.92	1.76	J	"	"	"	"	X
141-78-6	Ethyl acetate	0.83000	0.10000	2.99	0.36		"	"	"	"	
67-66-3	Chloroform	< 0.045000	0.10000	< 0.22	0.49	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.053000	0.10000	< 0.16	0.29	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	0.070000	0.10000	0.28	0.40	J	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.052000	0.10000	< 0.28	0.55	U	"	"	"	"	X
71-43-2	Benzene	0.20000	0.10000	0.64	0.32		"	"	"	"	X
56-23-5	Carbon tetrachloride	0.070000	0.10000	0.44	0.63	J	"	"	"	"	X
110-82-7	Cyclohexane	0.10000	0.10000	0.34	0.34		"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.049000	0.10000	< 0.23	0.46	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.053000	0.10000	< 0.36	0.67	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.052000	0.10000	< 0.28	0.54	U	"	"	"	"	X
123-91-1	1,4-Dioxane	0.51000	0.50000	1.84	1.80		"	"	"	"	X
142-82-5	n-Heptane	0.11000	0.10000	0.45	0.41		"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.053000	0.10000	< 0.22	0.41	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.066000	0.10000	< 0.36	0.55	U	"	"	"	"	X
108-88-3	Toluene	0.97000	0.10000	3.65	0.38		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.042000	0.10000	< 0.17	0.41	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.059000	0.10000	< 0.50	0.85	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.043000	0.10000	< 0.33	0.77	U	"	"	"	"	X
127-18-4	Tetrachloroethene	0.30000	0.10000	2.03	0.68		"	"	"	"	X
108-90-7	Chlorobenzene	< 0.061000	0.10000	< 0.28	0.46	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.047000	0.10000	< 0.32	0.69	U	"	"	"	"	
100-41-4	Ethylbenzene	0.25000	0.10000	1.08	0.43		"	"	"	"	X
179601-23-1	m,p-Xylene	0.54000	0.20000	2.34	0.87		"	"	"	"	X
75-25-2	Bromoform	< 0.046000	0.10000	< 0.48	1.03	U	"	"	"	"	X
100-42-5	Styrene	0.22000	0.10000	0.94	0.43		"	"	"	"	X
95-47-6	o-Xylene	0.21000	0.10000	0.91	0.43		"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.066000	0.10000	< 0.45	0.69	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.056000	0.10000	< 0.28	0.49	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	0.050000	0.10000	0.25	0.49	J	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.055000	0.10000	< 0.27	0.49	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	0.17000	0.10000	0.84	0.49		"	"	"	"	X
91-20-3	Naphthalene	< 0.18300	0.50000	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.055000	0.10000	< 0.33	0.60	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.062000	0.10000	< 0.32	0.52	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.061000	0.10000	< 0.37	0.60	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B1-Dup-030211	K0336	Air	03-Mar-11 12:00	03-Mar-11
SB25245-10				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: +1 Can ID: 470				
135-98-8	sec-Butylbenzene	< 0.052000	0.10000	< 0.29	0.55	U	EPA TO-15	10-Mar-11	KRL	1104208	
99-87-6	4-Isopropyltoluene	< 0.062000	0.10000	< 0.33	0.54	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.053000	0.10000	< 0.32	0.60	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.056000	0.10000	< 0.31	0.55	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.053000	0.10000	< 0.39	0.74	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.040000	0.10000	< 0.43	1.07	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*123*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SG-2-030311	K0336	Soil Gas	03-Mar-11 10:32	03-Mar-11
SB25245-11				

Air Quality Analyses

EPA TO-15 — ppbv — Prepared 08-Mar-11 — Dilution: 1 — GS — Can pressure: +1 — Can ID: 0669

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
115-07-1	Propene	1.76	0.500	3.03	0.86		EPA TO-15	08-Mar-11	KG	1104127	
75-71-8	Dichlorodifluoromethane (Freon12)	0.660	0.500	3.26	2.47		"	"	"	"	X
74-87-3	Chloromethane	< 0.455	0.500	< 0.94	1.03	U	"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.390	0.500	< 2.73	3.49	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.278	0.500	< 0.71	1.28	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.149	0.500	< 0.33	1.10	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.249	0.500	< 0.97	1.94	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.219	0.500	< 0.58	1.32	U	"	"	"	"	X
67-64-1	Acetone	4.39	0.500	10.43	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.379	0.500	< 2.13	2.81	U	"	"	"	"	X
64-17-5	Ethanol	< 0.440	0.500	< 0.83	0.94	U	"	"	"	"	
107-13-1	Acrylonitrile	< 0.0700	0.500	< 0.15	1.08	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.163	0.500	< 0.65	1.98	U UJ	"	"	"	"	X
75-09-2	Methylene chloride	< 0.129	0.500	< 0.45	1.74	U UJ	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.202	0.500	< 1.55	3.83	U	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.185	0.500	< 0.58	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.0660	0.500	< 0.26	1.98	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.150	0.500	< 0.61	2.02	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.0780	0.500	< 0.28	1.80	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	< 0.212	0.500	< 0.52	1.23	U	"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.420	0.500	1.24	1.47	J	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.101	0.500	< 0.40	1.98	U	"	"	"	"	X
110-54-3	Hexane	0.660	0.500	2.33	1.76		"	"	"	"	X
141-78-6	Ethyl acetate	< 0.334	0.500	< 1.20	1.80	U	"	"	"	"	
67-66-3	Chloroform	0.270	0.500	1.31	2.43	J	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.167	0.500	< 0.49	1.47	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.162	0.500	< 0.66	2.02	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.159	0.500	< 0.87	2.73	U	"	"	"	"	X
71-43-2	Benzene	0.750	0.500	2.39	1.60		"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.176	0.500	< 1.11	3.15	U	"	"	"	"	X
110-82-7	Cyclohexane	< 0.0640	0.500	< 0.22	1.72	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.0730	0.500	< 0.34	2.31	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.127	0.500	< 0.85	3.35	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.0800	0.500	< 0.43	2.69	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.0870	0.500	< 0.31	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	< 0.284	0.500	< 1.16	2.05	U	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.132	0.500	< 0.54	2.05	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.104	0.500	< 0.47	2.27	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.0670	0.500	< 0.30	2.27	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.125	0.500	< 0.68	2.73	U	"	"	"	"	X
108-88-3	Toluene	56.5	0.500	212.60	1.88		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.106	0.500	< 0.43	2.05	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.130	0.500	< 1.11	4.26	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.0890	0.500	< 0.68	3.84	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SG-2-030311 SB25245-11	K0336	Soil Gas	03-Mar-11 10:32	03-Mar-11

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15		ppbv	Prepared 08-Mar-11 Dilution: 1			GS	Can pressure: +1 Can ID: 0669				
127-18-4	Tetrachloroethene	0.350	0.500	2.37	3.39	J	EPA TO-15	08-Mar-11	KG	1104127	X
108-90-7	Chlorobenzene	< 0.132	0.500	< 0.61	2.30	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.164	0.500	< 1.13	3.44	U	"	"	"	"	
100-41-4	Ethylbenzene	0.240	0.500	1.04	2.17	J	"	"	"	"	X
179601-23-1	m,p-Xylene	0.470	0.500	2.04	2.17	J	"	"	"	"	X
75-25-2	Bromoform	< 0.153	0.500	< 1.58	5.17	U	"	"	"	"	X
100-42-5	Styrene	< 0.0500	0.500	< 0.21	2.13	U	"	"	"	"	X
95-47-6	o-Xylene	< 0.110	0.500	< 0.48	2.17	U	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.170	0.500	< 1.17	3.43	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.0930	0.500	< 0.46	2.46	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.211	0.500	< 1.04	2.46	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.0940	0.500	< 0.46	2.46	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 0.0890	0.500	< 0.44	2.46	U	"	"	"	"	X
91-20-3	Naphthalene	< 0.183	0.500	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.124	0.500	< 0.75	3.01	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.164	0.500	< 0.85	2.58	U UJ	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.170	0.500	< 1.02	3.01	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.125	0.500	< 0.69	2.74	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.0880	0.500	< 0.47	2.68	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.150	0.500	< 0.90	3.01	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.0930	0.500	< 0.51	2.74	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.335	0.500	< 2.49	3.71	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.140	0.500	< 1.49	5.33	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B2-IA1-030211	K0336	Air	03-Mar-11 10:17	03-Mar-11
SB25245-12				

Air Quality Analyses

EPA TO-15 — ppbv — Prepared 08-Mar-11 — Dilution: 1 — Can pressure: +1 — Can ID: 1345

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
115-07-1	Propene	< 0.0930	0.500	< 0.16	0.86	U	EPA TO-15	08-Mar-11	KG	1104127	
75-71-8	Dichlorodifluoromethane (Freon12)	0.700	0.500	3.46	2.47		"	"	"	"	X
74-87-3	Chloromethane	0.520	0.500	1.07	1.03		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.390	0.500	< 2.73	3.49	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.278	0.500	< 0.71	1.28	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.149	0.500	< 0.33	1.10	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.249	0.500	< 0.97	1.94	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.219	0.500	< 0.58	1.32	U	"	"	"	"	X
67-64-1	Acetone	5.52	0.500	13.12	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.379	0.500	< 2.13	2.81	U	"	"	"	"	X
64-17-5	Ethanol	8.22	0.500	15.50	0.94		"	"	"	"	
107-13-1	Acrylonitrile	< 0.0700	0.500	< 0.15	1.08	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.163	0.500	< 0.65	1.98	U UJ	"	"	"	"	X
75-09-2	Methylene chloride	0.890	0.500	3.09	1.74	J	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.202	0.500	< 1.55	3.83	U	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.185	0.500	< 0.58	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.0660	0.500	< 0.26	1.98	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.150	0.500	< 0.61	2.02	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.0780	0.500	< 0.28	1.80	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	1.80	0.500	4.42	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.580	0.500	1.71	1.47		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.101	0.500	< 0.40	1.98	U	"	"	"	"	X
110-54-3	Hexane	3.29	0.500	11.60	1.76		"	"	"	"	X
141-78-6	Ethyl acetate	1.04	0.500	3.75	1.80		"	"	"	"	
67-66-3	Chloroform	< 0.175	0.500	< 0.85	2.43	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.167	0.500	< 0.49	1.47	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.162	0.500	< 0.66	2.02	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.159	0.500	< 0.87	2.73	U	"	"	"	"	X
71-43-2	Benzene	0.330	0.500	1.05	1.60	J	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.176	0.500	< 1.11	3.15	U	"	"	"	"	X
110-82-7	Cyclohexane	< 0.0640	0.500	< 0.22	1.72	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.0730	0.500	< 0.34	2.31	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.127	0.500	< 0.85	3.35	U	"	"	"	"	X
79-01-6	Trichloroethene	< 0.0800	0.500	< 0.43	2.69	U	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.0870	0.500	< 0.31	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	< 0.284	0.500	< 1.16	2.05	U	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.132	0.500	< 0.54	2.05	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.104	0.500	< 0.47	2.27	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.0670	0.500	< 0.30	2.27	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.125	0.500	< 0.68	2.73	U	"	"	"	"	X
108-88-3	Toluene	0.620	0.500	2.33	1.88		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.106	0.500	< 0.43	2.05	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.130	0.500	< 1.11	4.26	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.0890	0.500	< 0.68	3.84	U	"	"	"	"	X

See the original sample

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B2-IA1-030211 SB25245-12	K0336	Air	03-Mar-11 10:17	03-Mar-11

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
EPA TO-15		ppbv	Prepared 08-Mar-11 Dilution: 1				Can pressure: +1 Can ID: 1345				
127-18-4	Tetrachloroethene	2.86	0.500	19.39	3.39		EPA TO-15	08-Mar-11	KG	1104127	X
108-90-7	Chlorobenzene	< 0.132	0.500	< 0.61	2.30	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.164	0.500	< 1.13	3.44	U	"	"	"	"	
100-41-4	Ethylbenzene	< 0.0620	0.500	< 0.27	2.17	U	"	"	"	"	X
179601-23-1	m,p-Xylene	0.340	0.500	1.47	2.17	J	"	"	"	"	X
75-25-2	Bromoform	< 0.153	0.500	< 1.58	5.17	U	"	"	"	"	X
100-42-5	Styrene	< 0.0500	0.500	< 0.21	2.13	U	"	"	"	"	X
95-47-6	o-Xylene	< 0.110	0.500	< 0.48	2.17	U	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.170	0.500	< 1.17	3.43	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.0930	0.500	< 0.46	2.46	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.211	0.500	< 1.04	2.46	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.0940	0.500	< 0.46	2.46	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 0.0890	0.500	< 0.44	2.46	U	"	"	"	"	X
91-20-3	Naphthalene	< 0.183	0.500	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.124	0.500	< 0.75	3.01	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.164	0.500	< 0.85	2.58	U U)	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.170	0.500	< 1.02	3.01	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.125	0.500	< 0.69	2.74	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.0880	0.500	< 0.47	2.68	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.150	0.500	< 0.90	3.01	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.0930	0.500	< 0.51	2.74	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.335	0.500	< 2.49	3.71	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.140	0.500	< 1.49	5.33	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*70-130 %*			"	"	"	"	
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: +1 Can ID: 1345				
115-07-1	Propene	< 0.084000	0.10000	< 0.14	0.17	U	"	10-Mar-11	"	1104208	
75-71-8	Dichlorodifluoromethane (Freon12)	0.48000	0.10000	2.37	0.49		"	"	"	"	X
74-87-3	Chloromethane	0.48000	0.10000	0.99	0.21		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.057000	0.10000	< 0.40	0.70	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.064000	0.10000	< 0.16	0.26	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.055000	0.10000	< 0.12	0.22	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.052000	0.10000	< 0.20	0.39	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.076000	0.10000	< 0.20	0.26	U	"	"	"	"	X
67-64-1	Acetone	5.2300	0.50000	12.43	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	0.28000	0.10000	1.57	0.56		"	"	"	"	X
64-17-5	Ethanol	11.610	0.50000	21.89 15.5	0.94	~~E~~ A	"	"	"	"	
107-13-1	Acrylonitrile	< 0.064000	0.10000	< 0.14	0.22	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.073000	0.10000	< 0.29	0.40	U	"	"	"	"	X
75-09-2	Methylene chloride	0.64000	0.10000	2.22	0.35		"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.080000	0.10000	0.61	0.77	J	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.057000	0.50000	< 0.18	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.042000	0.10000	< 0.17	0.40	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B2-IA1-030211	K0336	Air	03-Mar-11 10:17	03-Mar-11
SB25245-12				

Air Quality Analyses

EPA TO-15 Low Level — ppbv — Prepared 10-Mar-11, Dilution: 1 — Can pressure: +1, Can ID: 1345

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
75-34-3	1,1-Dichloroethane	< 0.049000	0.10000	< 0.20	0.40	U	EPA TO-15	10-Mar-11	KRL	1104208	X
1634-04-4	Methyl tert-butyl ether	< 0.049000	0.10000	< 0.18	0.36	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	1.9100	0.50000	4.69	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.84000	0.10000	2.48	0.29		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.049000	0.10000	< 0.19	0.40	U	"	"	"	"	X
110-54-3	Hexane	1.4300	0.50000	5.04	1.76		"	"	"	"	X
141-78-6	Ethyl acetate	0.76000	0.10000	2.74	0.36		"	"	"	"	
67-66-3	Chloroform	< 0.045000	0.10000	< 0.22	0.49	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.053000	0.10000	< 0.16	0.29	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.046000	0.10000	< 0.19	0.40	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.052000	0.10000	< 0.28	0.55	U	"	"	"	"	X
71-43-2	Benzene	0.28000	0.10000	0.89	0.32		"	"	"	"	X
56-23-5	Carbon tetrachloride	0.080000	0.10000	0.50	0.63	J	"	"	"	"	X
110-82-7	Cyclohexane	0.20000	0.10000	0.69	0.34		"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.049000	0.10000	< 0.23	0.46	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.053000	0.10000	< 0.36	0.67	U	"	"	"	"	X
79-01-6	Trichloroethene	0.090000	0.10000	0.48	0.54	J	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.067000	0.50000	< 0.24	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	0.11000	0.10000	0.45	0.41		"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	0.060000	0.10000	0.25	0.41	J	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.047000	0.10000	< 0.21	0.45	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.066000	0.10000	< 0.36	0.55	U	"	"	"	"	X
108-88-3	Toluene	0.82000	0.10000	3.09	0.38		"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.042000	0.10000	< 0.17	0.41	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.059000	0.10000	< 0.50	0.85	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.043000	0.10000	< 0.33	0.77	U	"	"	"	"	X
127-18-4	Tetrachloroethene	4.0500	0.10000	27.46	0.68		"	"	"	"	X
108-90-7	Chlorobenzene	0.070000	0.10000	0.32	0.46	J	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.047000	0.10000	< 0.32	0.69	U	"	"	"	"	
100-41-4	Ethylbenzene	0.20000	0.10000	0.87	0.43		"	"	"	"	X
179601-23-1	m,p-Xylene	0.43000	0.20000	1.86	0.87		"	"	"	"	X
75-25-2	Bromoform	< 0.046000	0.10000	< 0.48	1.03	U	"	"	"	"	X
100-42-5	Styrene	0.22000	0.10000	0.94	0.43		"	"	"	"	X
95-47-6	o-Xylene	0.14000	0.10000	0.61	0.43		"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.066000	0.10000	< 0.45	0.69	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.056000	0.10000	< 0.28	0.49	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.046000	0.10000	< 0.23	0.49	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.055000	0.10000	< 0.27	0.49	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	0.11000	0.10000	0.54	0.49		"	"	"	"	X
91-20-3	Naphthalene	< 0.18300	0.50000	< 0.96	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.055000	0.10000	< 0.33	0.60	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.062000	0.10000	< 0.32	0.52	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.061000	0.10000	< 0.37	0.60	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
B2-IA1-030211	K0336	Air	03-Mar-11 10:17	03-Mar-11
SB25245-12				

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
EPA TO-15 Low Level		ppbv	Prepared 10-Mar-11 Dilution: 1				Can pressure: +1 Can ID: 1345				
135-98-8	sec-Butylbenzene	< 0.052000	0.10000	< 0.29	0.55	U	EPA TO-15	10-Mar-11	KRL	1104208	
99-87-6	4-Isopropyltoluene	< 0.062000	0.10000	< 0.33	0.54	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.053000	0.10000	< 0.32	0.60	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.056000	0.10000	< 0.31	0.55	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.053000	0.10000	< 0.39	0.74	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.040000	0.10000	< 0.43	1.07	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*95*		*70-130 %*			"	"	"	"	

Appendix C
Support Documentation/Resubmission
If Applicable

Fw: data validation questions, K0332

Mon, May 2, 2011 8:50:15 PM

From: zohreh hamid <hamidzohreh@yahoo.com> View Contact
To: elawler@mitkem.com
Cc: Allen.Burton@aecom.com

Mr. Lawler,

In addition to the data package completeness issue, I have the following questions:
The laboratory case narrative stated that if the canister is below -10 psig, the can must be pressurized to "0" psig. The pressure for sample B2-SS1-030211 was at -15 psi before analysis. This sample was analyzed at 2-fold dilution. Please clarify the low pressure. What is the unit for the pressure listed on form I

The final pressure for the above sample is not clear. I do not know the pressure is -2.2 or -22.

The response factors for almost all compounds (I calculate 7 compds) are listed incorrectly on page 502.

The response area for 0.04 ppbv are not listed on the quantitation report (page504). However, you listed all response factors for this standard.

----- Forwarded Message ----
From: zohreh hamid <hamidzohreh@yahoo.com>
To: Edward Lawler [Mitkem] <elawler@mitkem.com>
Sent: Mon, May 2, 2011 3:19:13 PM
Subject: Re: data validation questions, K0332

I have received air sample and I have the following questions. Please note that I just screen the data for the data package completeness. I'll e-mail my validation question later.

Data summary package,
1- the analysis time for the samples are the same as the corresponding reanalysis samples.
2- Some samples were reanalyzed because the results exceeded the upper calibration range, however dilution factors are listed as "1" for both field sample and the corresponding reanalysis.

Data package assembly is incorrect.
The reported analysis date/time listed on form I dose not match the analysis time listed on the corresponding quantitation report. I found that the form I for the reanalysis sample was reported with the original sample analysis.

My question: The 12 hour tune exceeded 24 hours analysis for VOC compounds. What is the requirement listed in your QAPP.

Thanks

47

End of Data Package