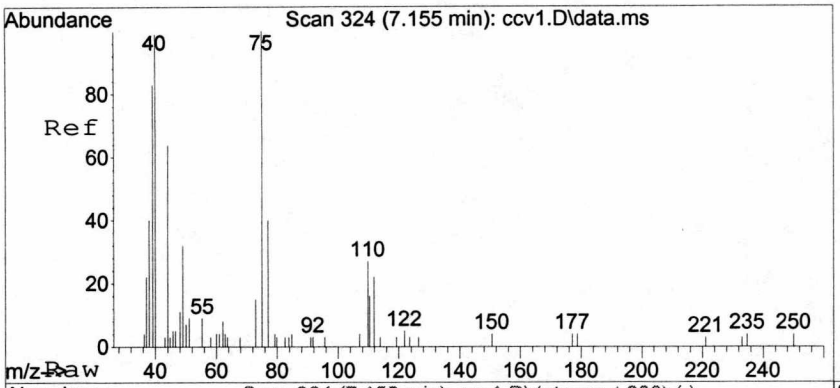
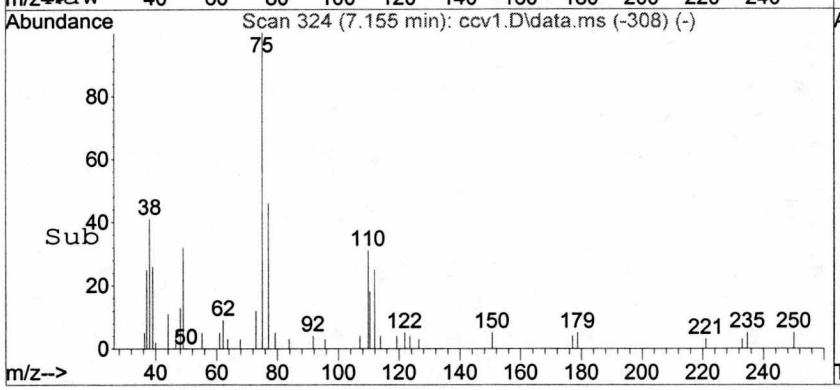
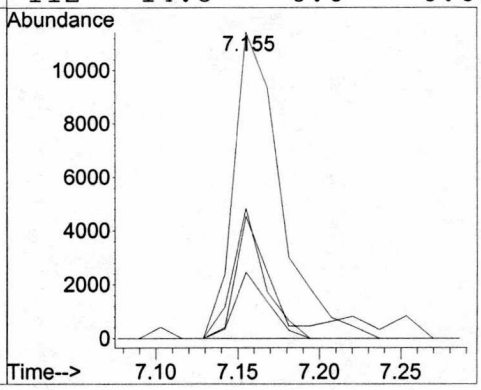


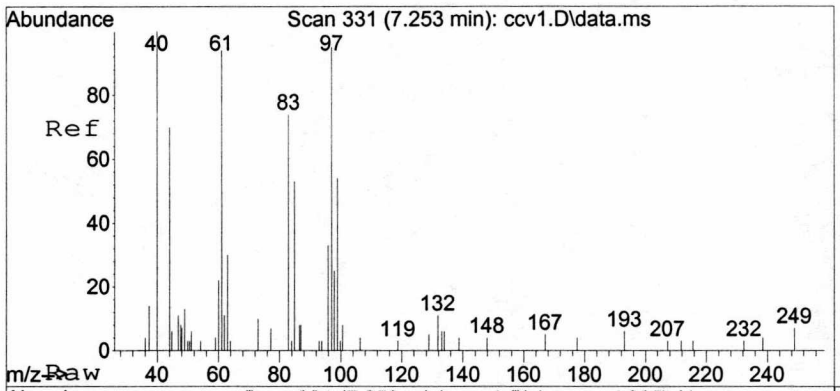
#54
trans-1,3-Dichloropene
Concen: 46.14 ppbv
RT: 7.155 min Scan# 324
Delta R.T. 0.012 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 75 Resp: 23664

Ion	Ratio	Lower	Upper
75	100		
110	27.8	18.5	27.7#
77	26.0	44.1	66.1#
112	14.8	0.0	0.0#



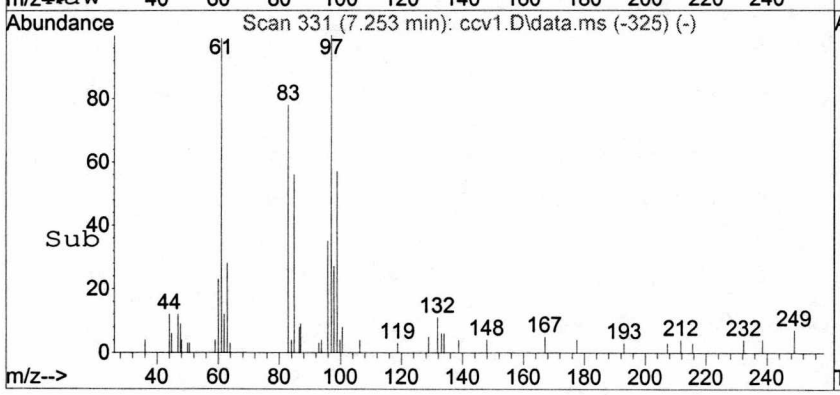


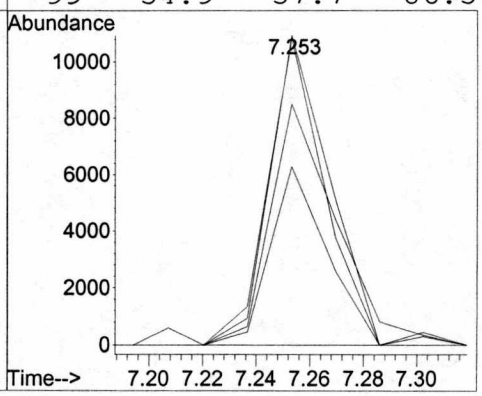


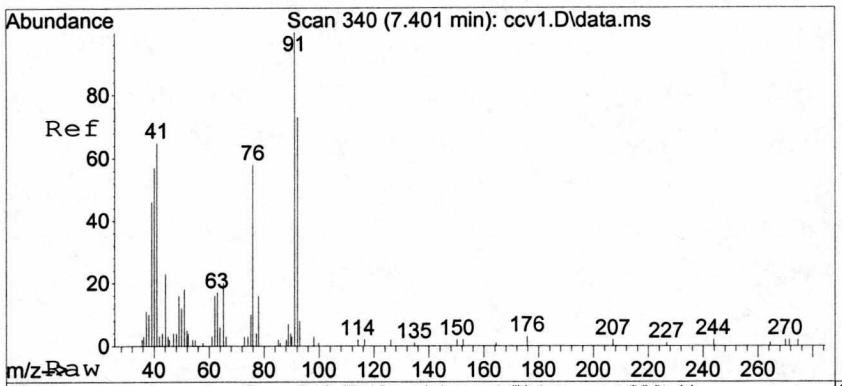
#55
1,1,2-Trichloroethane
Concen: 53.94 ppbv
RT: 7.253 min Scan# 331
Delta R.T. -0.016 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 97 Resp: 16741

Ion	Ratio	Lower	Upper
97	100		
83	86.5	48.6	73.0#
61	93.9	52.6	78.8#
99	54.9	57.7	86.5#



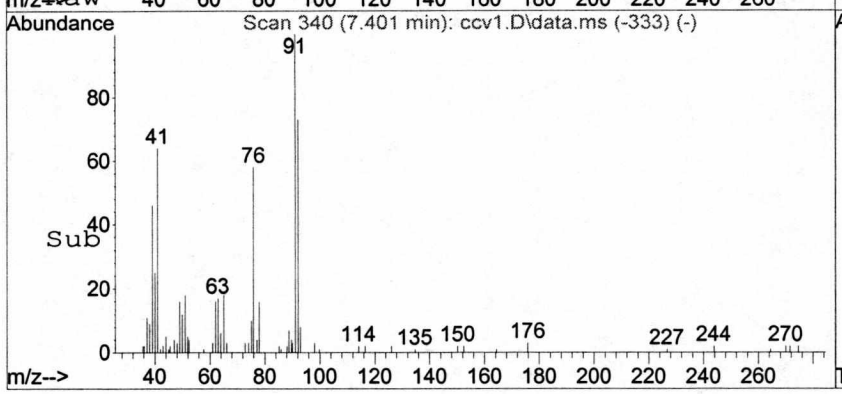


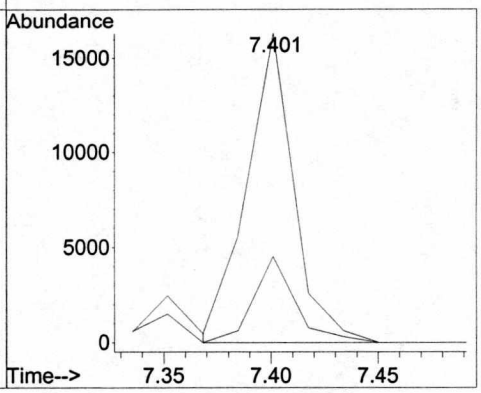


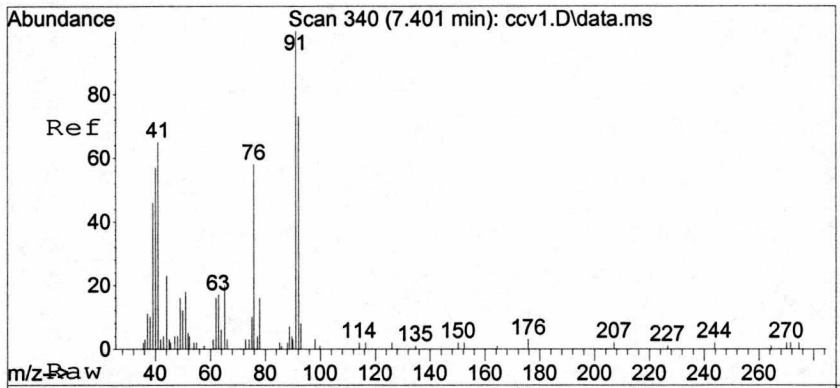
#57
1,3 Dichloropropane
Concen: 58.38 ppbv
RT: 7.401 min Scan# 340
Delta R.T. 0.001 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 76 Resp: 24795

Ion	Ratio	Lower	Upper
76	100		
78	24.8	31.3	46.9#



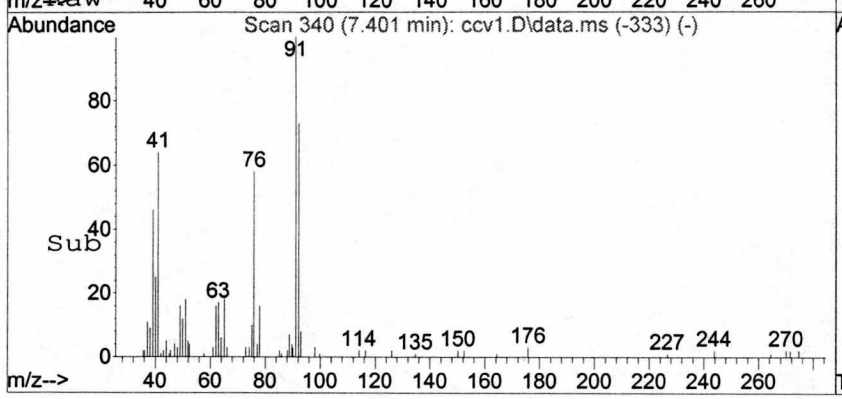


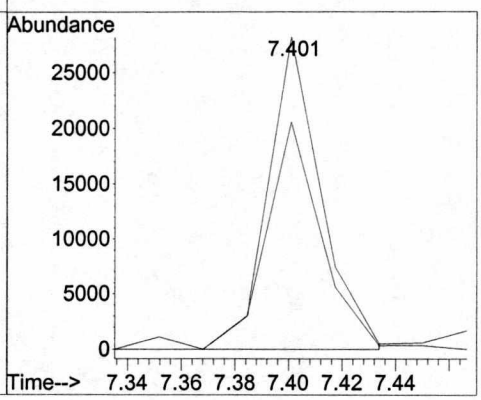


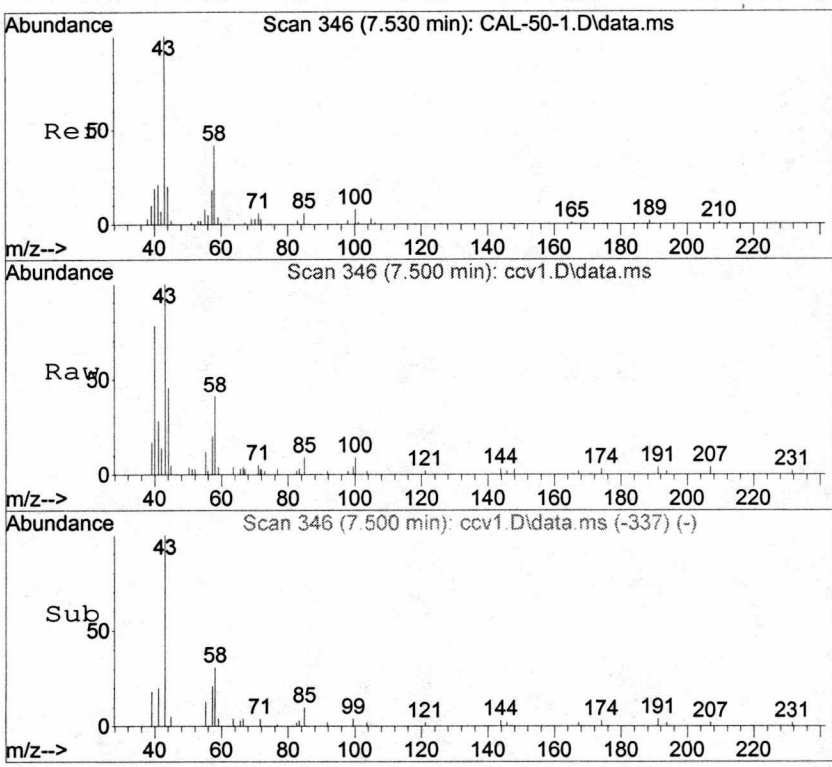
#58
Toluene
Concen: 39.35 ppbv
RT: 7.401 min Scan# 340
Delta R.T. 0.001 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 91 Resp: 38657

Ion	Ratio	Lower	Upper
91	100		
92	75.2	49.9	74.9#



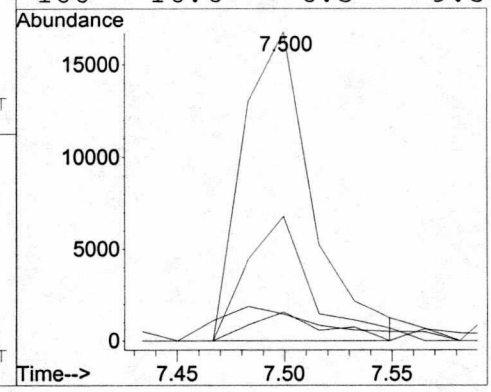


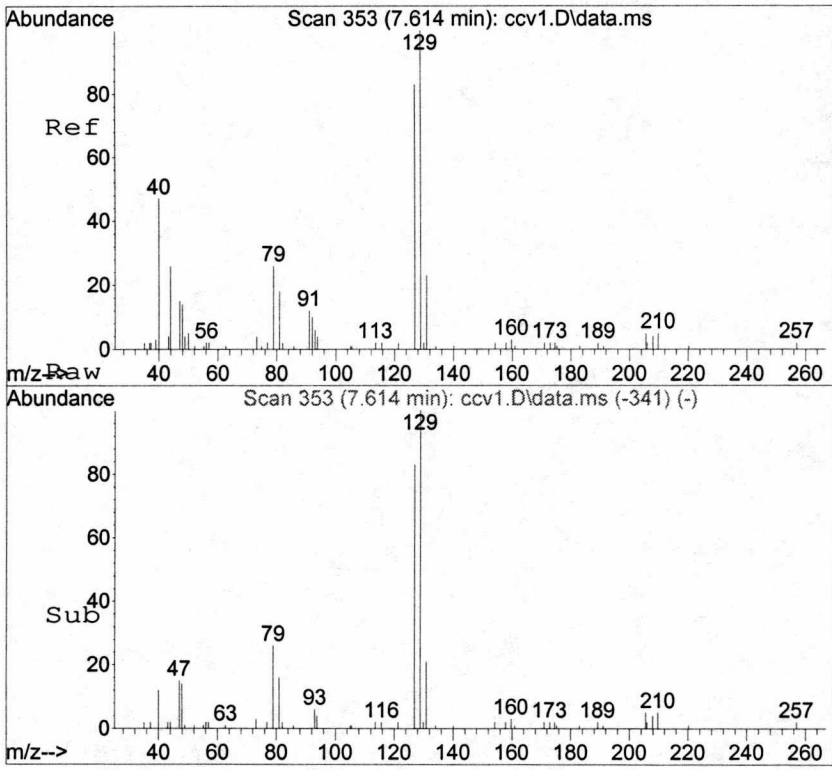


#59
2-Hexanone
Concen: 48.63 ppbv
RT: 7.500 min Scan# 346
Delta R.T. 0.018 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 43 Resp: 37906

Ion	Ratio	Lower	Upper
43	100		
58	36.1	42.2	63.4#
85	9.8	3.3	4.9#
100	16.6	6.3	9.5#

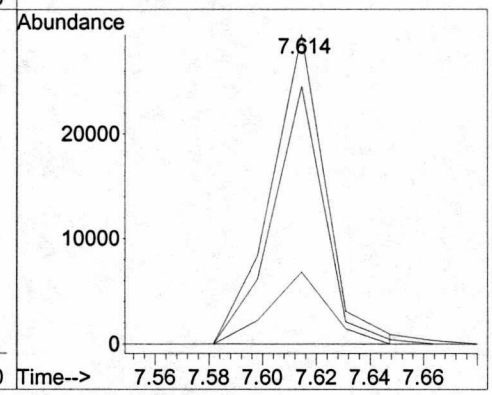


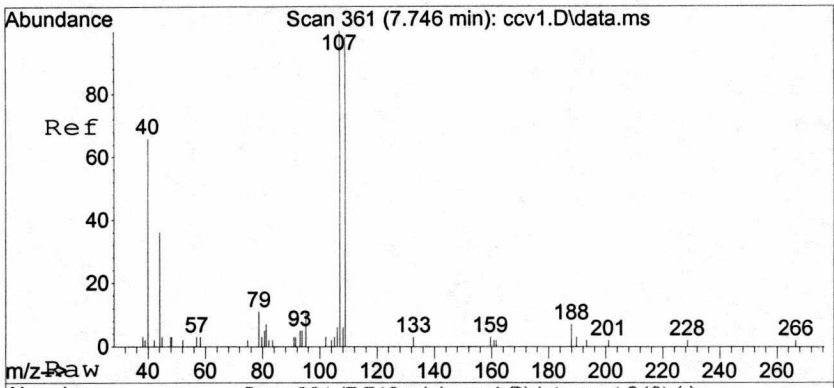


#60
Dibromochloromethane
Concen: 52.20 ppbv
RT: 7.614 min Scan# 353
Delta R.T. 0.001 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:129 Resp: 41195

Ion	Ratio	Lower	Upper
129	100		
127	79.3	70.1	105.1
131	25.0	23.0	34.6

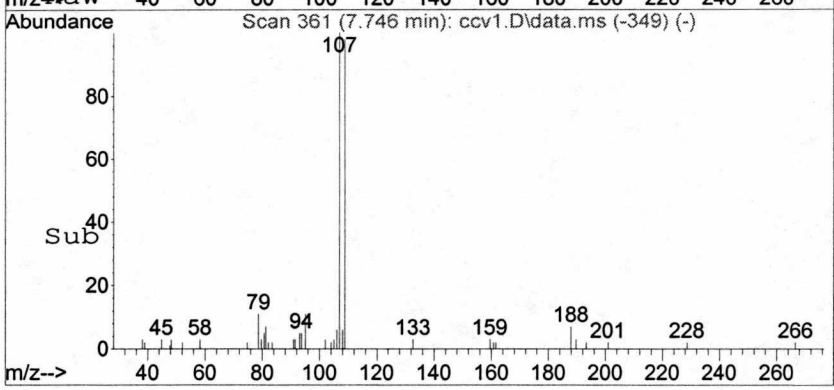


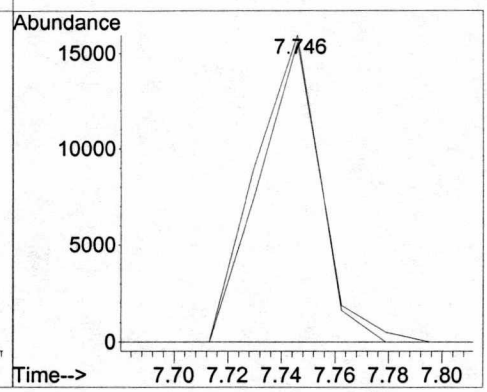


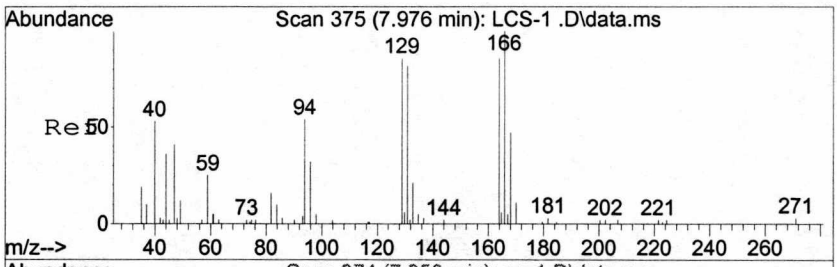
#61
1,2-Dibromoethane
Concen: 48.91 ppbv
RT: 7.746 min Scan# 361
Delta R.T. 0.002 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

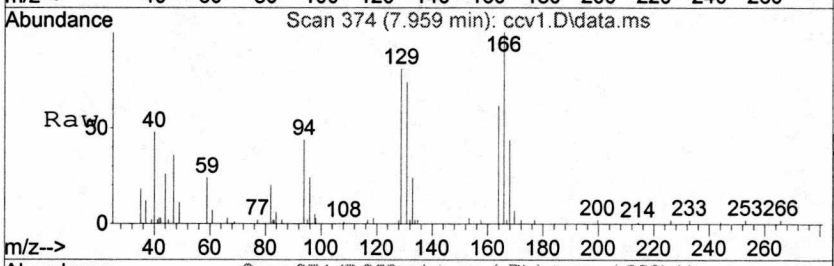
Tgt Ion:107 Resp: 26148

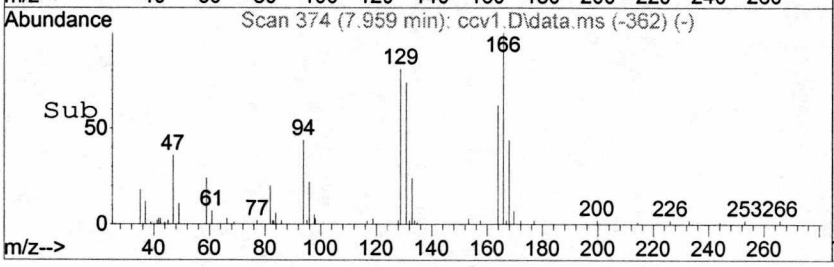
Ion	Ratio	Lower	Upper
107	100		
109	95.6	71.6	107.4







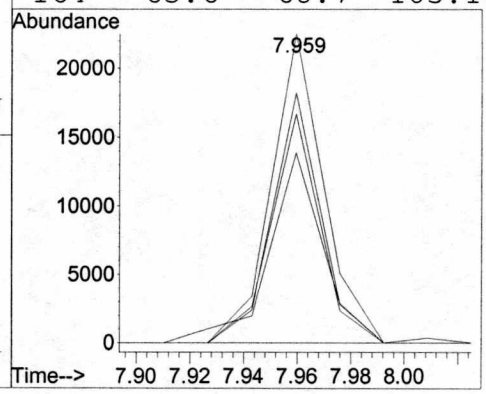


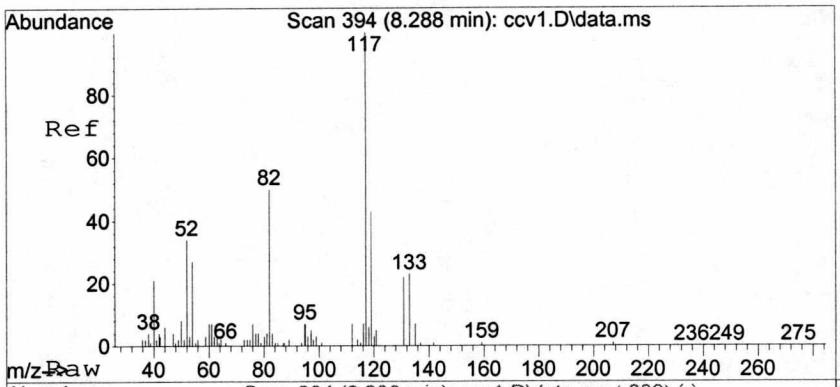


#62
Tetrachloroethene
Concen: 57.88 ppbv
RT: 7.959 min Scan# 374
Delta R.T. 0.002 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:166 Resp: 30572

Ion	Ratio	Lower	Upper
166	100		
131	69.9	65.7	98.5
129	75.5	68.8	103.2
164	63.6	68.7	103.1#

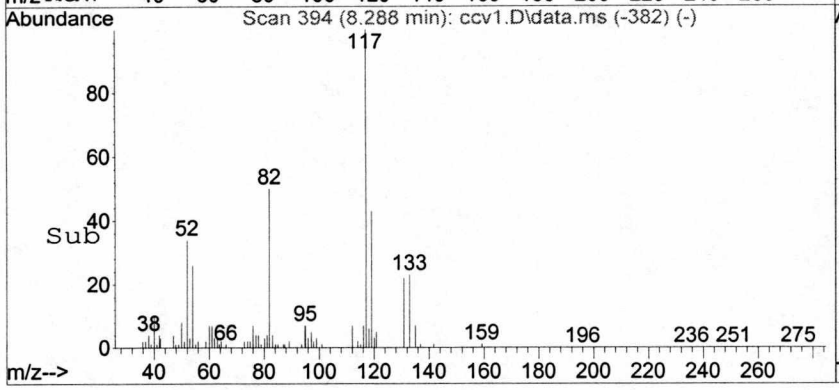


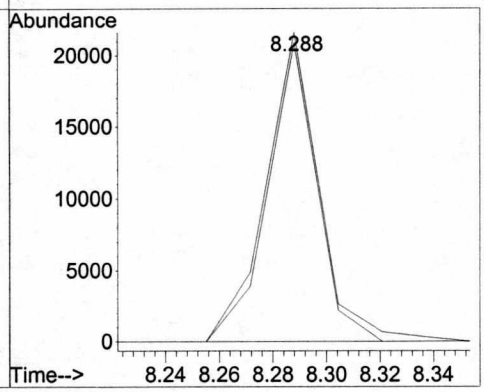


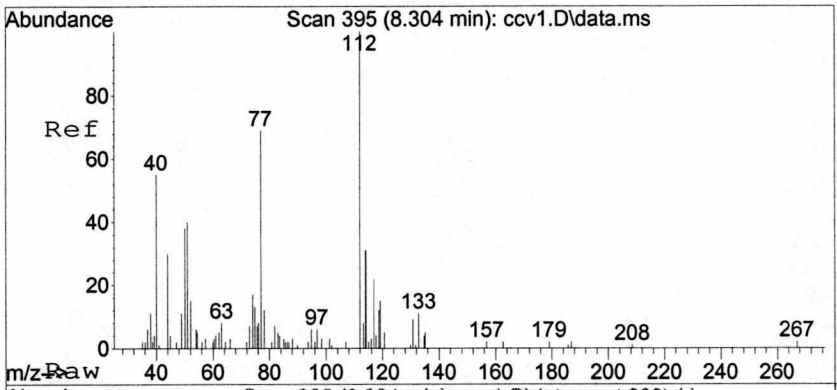
#64
1,1,1,2 Tetrachloroethane
Concen: 60.60 ppbv
RT: 8.288 min Scan# 394
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:131 Resp: 26585

Ion	Ratio	Lower	Upper
131	100		
133	110.5	82.9	124.3



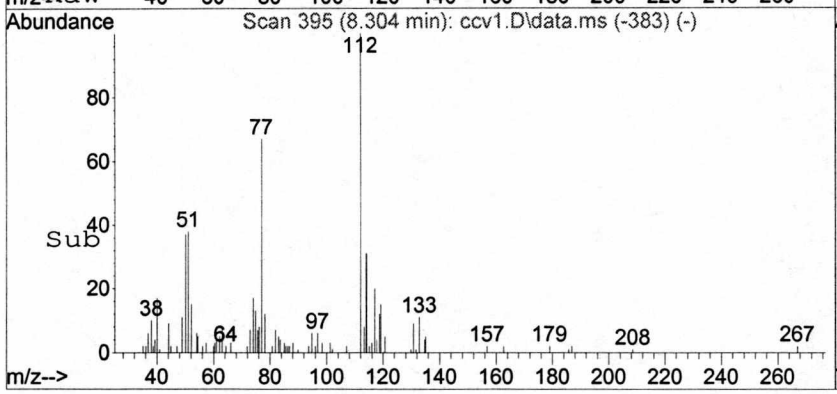


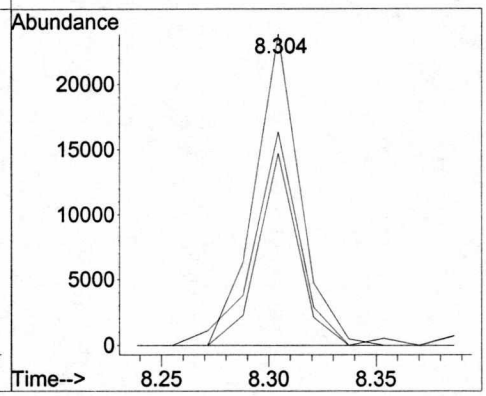


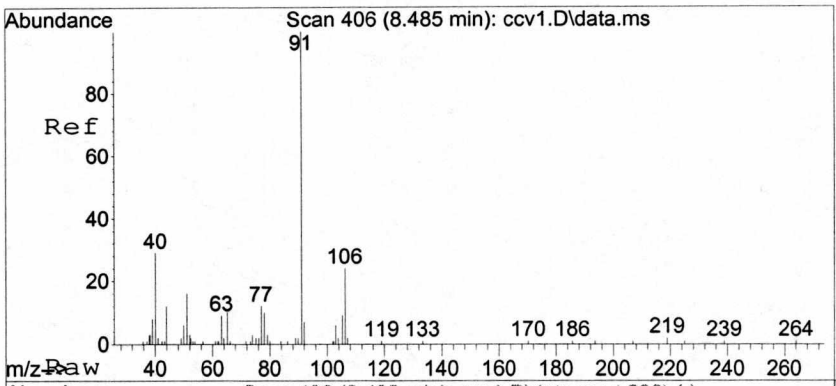
#65
Chlorobenzene
Concen: 52.41 ppbv
RT: 8.304 min Scan# 395
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:112 Resp: 34894

Ion	Ratio	Lower	Upper
112	100		
114	53.9	24.8	37.2#
77	68.3	54.9	82.3



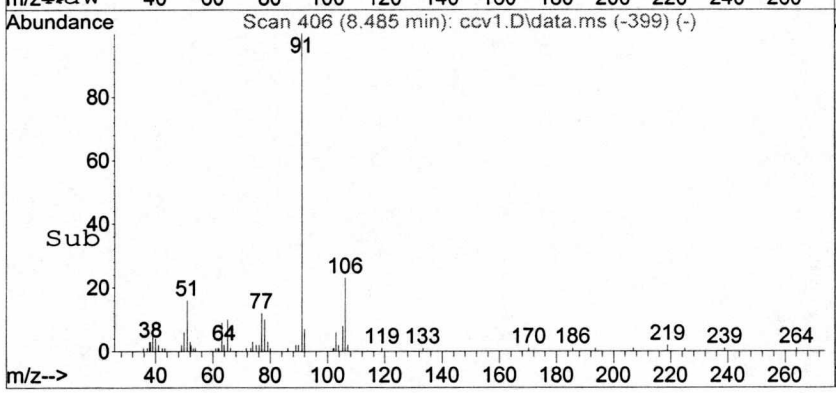


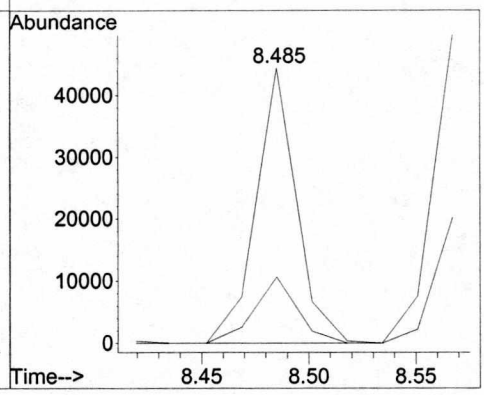


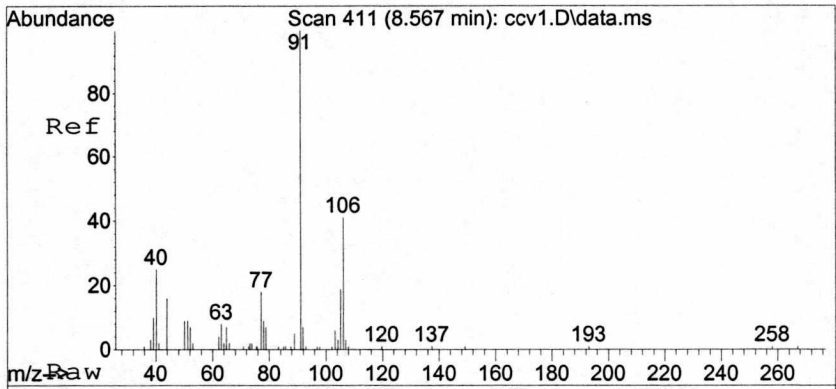
#66
Ethylbenzene
Concen: 49.00 ppbv
RT: 8.485 min Scan# 406
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 91 Resp: 58131

Ion	Ratio	Lower	Upper
91	100		
106	25.8	19.2	28.8



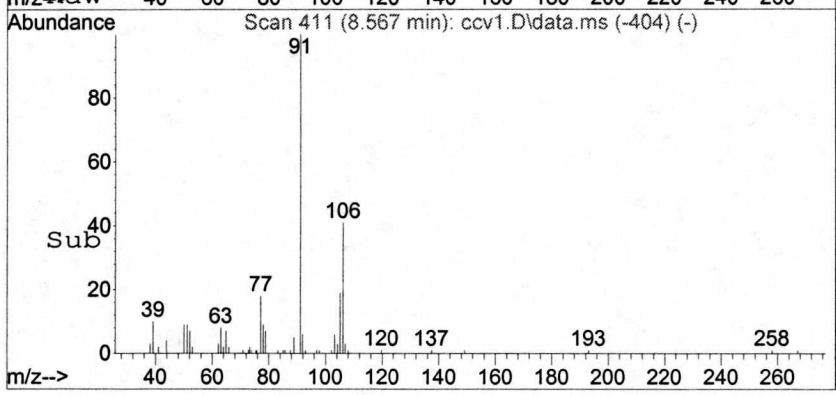


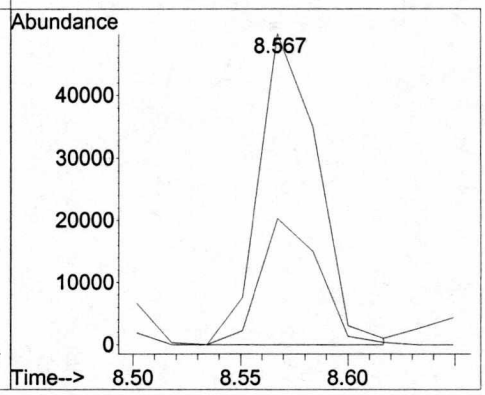


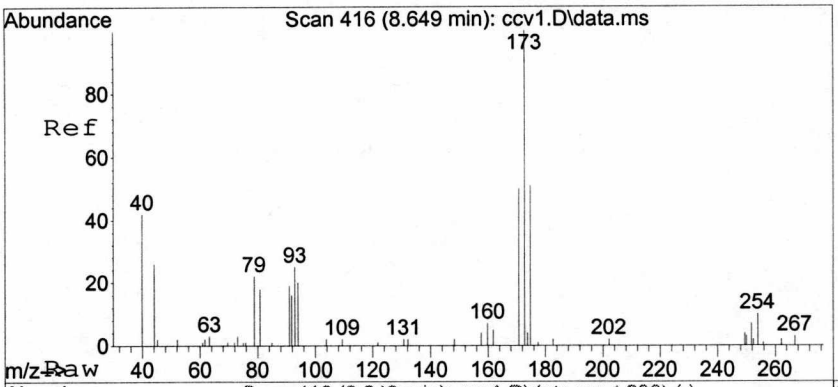
#67
m,p-xylene
Concen: 103.48 ppbv
RT: 8.567 min Scan# 411
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 91 Resp: 95111

Ion	Ratio	Lower	Upper
91	100		
106	40.7	32.6	49.0



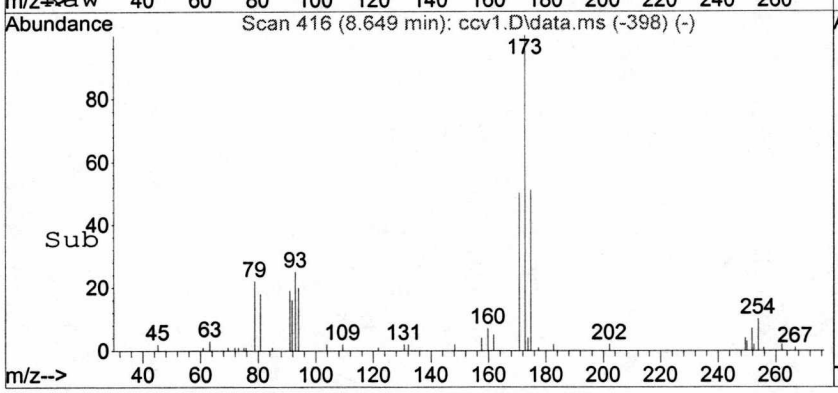


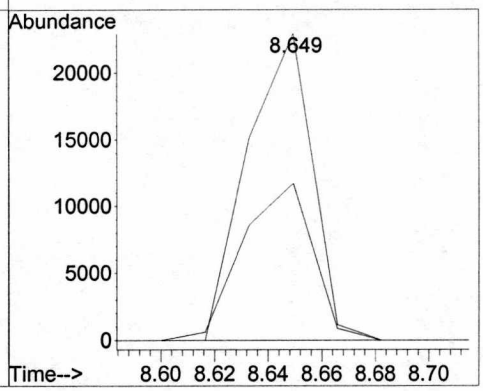


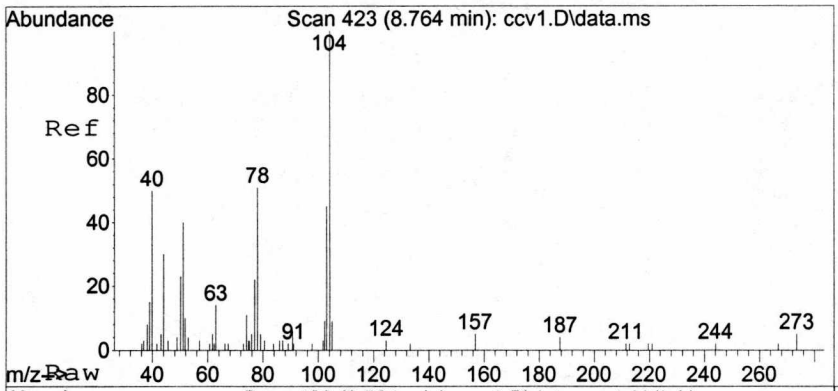
#68
Bromoform
Concen: 54.98 ppbv
RT: 8.649 min Scan# 416
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:173 Resp: 38679

Ion	Ratio	Lower	Upper
173	100		
175	55.5	31.1	71.1



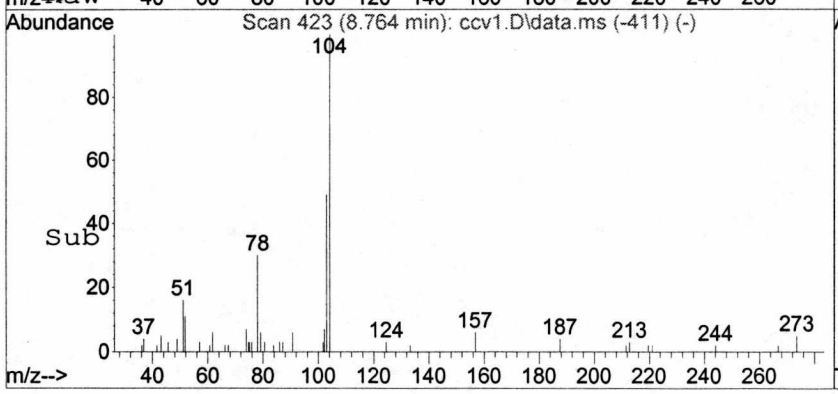


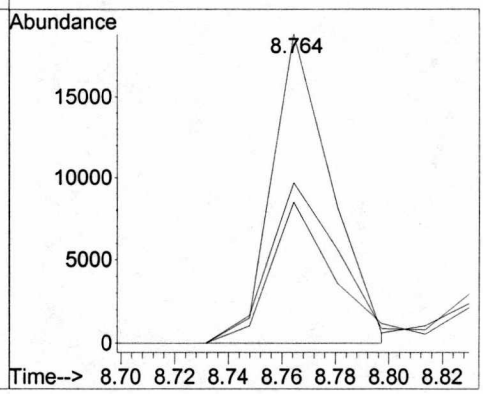


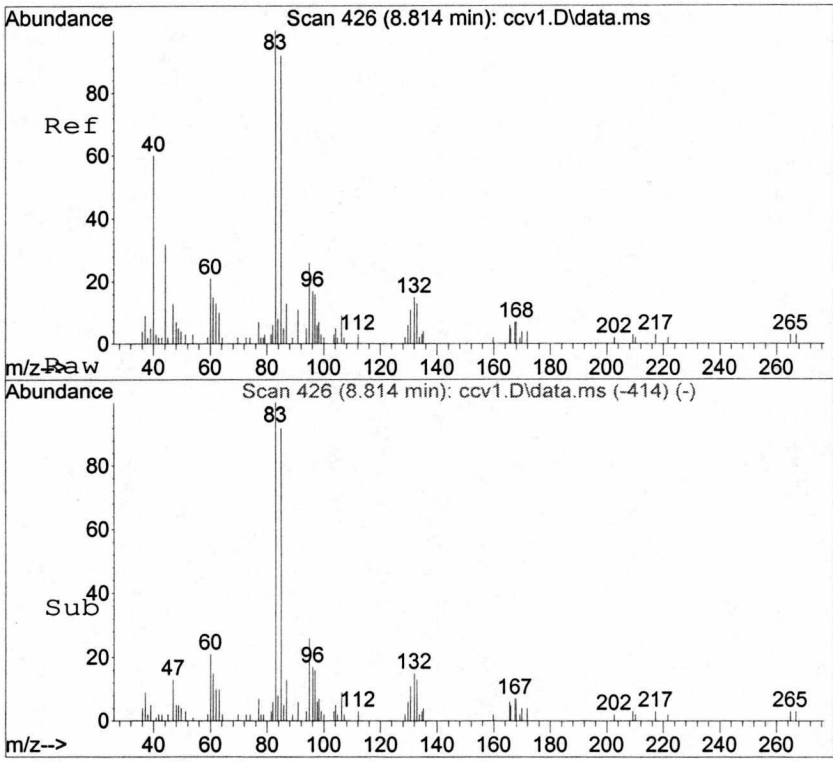
#69
Styrene
Concen: 42.53 ppbv
RT: 8.764 min Scan# 423
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:104 Resp: 28695

Ion	Ratio	Lower	Upper
104	100		
78	63.9	41.0	61.6#
103	50.8	36.0	54.0



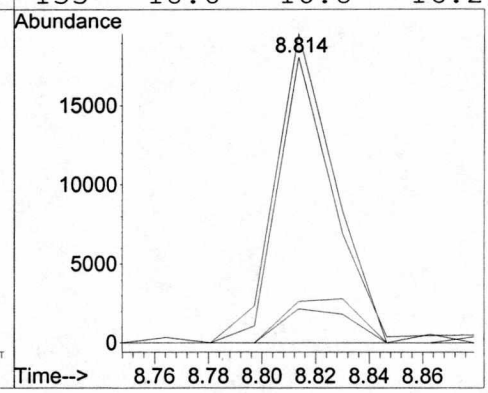


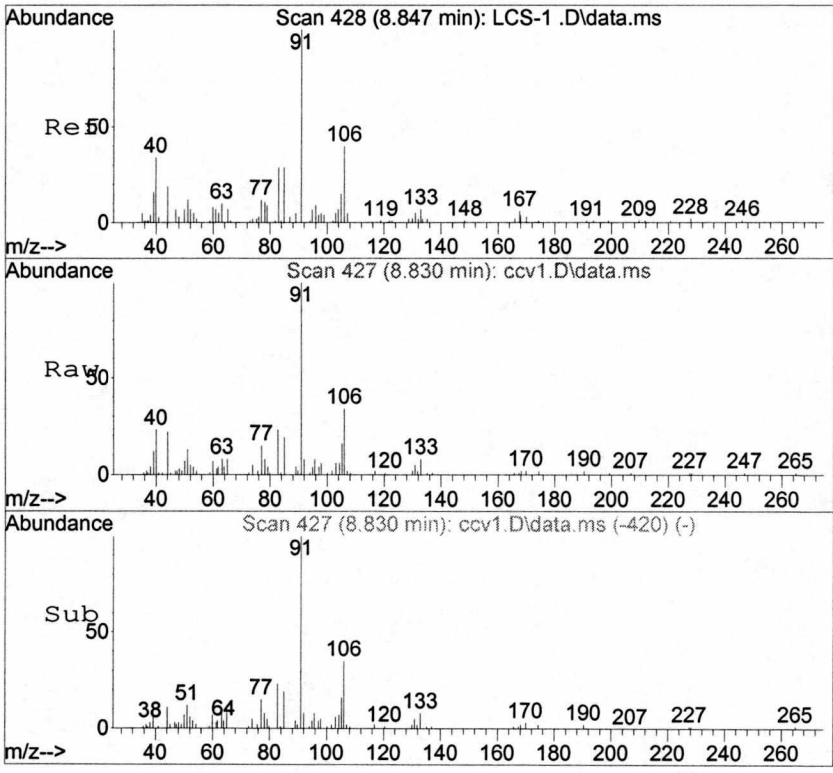


#70
1,1,2,2-Tetrachloroethane
Concen: 57.24 ppbv
RT: 8.814 min Scan# 426
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 83 Resp: 29866

Ion	Ratio	Lower	Upper
83	100		
85	87.5	73.8	110.6
131	13.2	8.8	13.2
133	18.0	10.8	16.2#

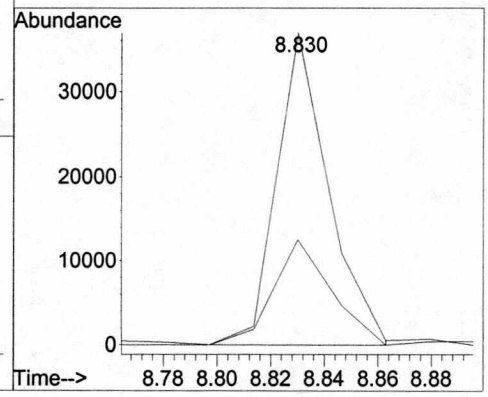


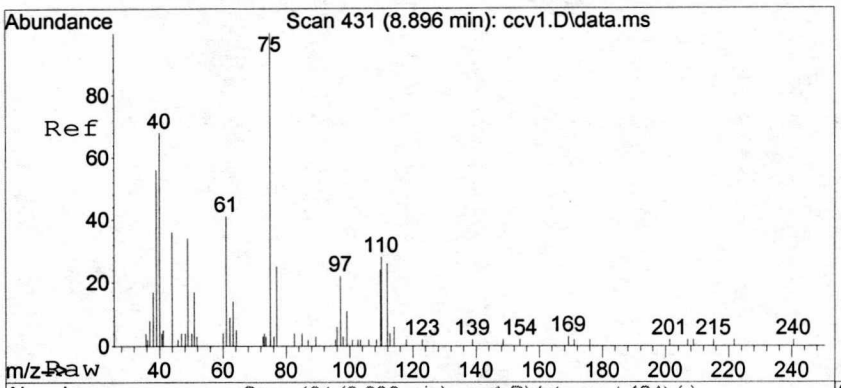


#71
o-xylene
Concen: 52.67 ppbv
RT: 8.830 min Scan# 427
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 91 Resp: 49770

Ion	Ratio	Lower	Upper
91	100		
106	37.6	27.1	40.7

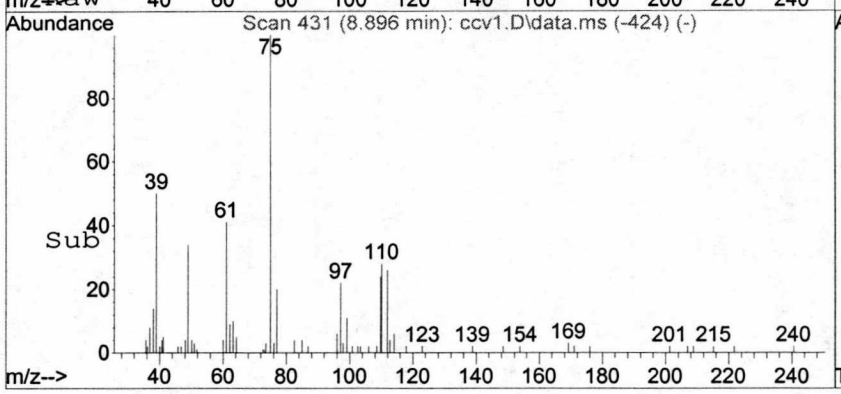


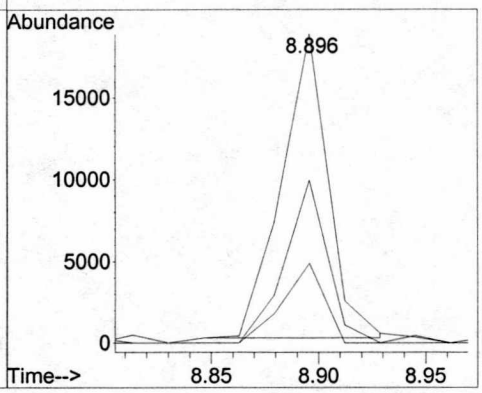


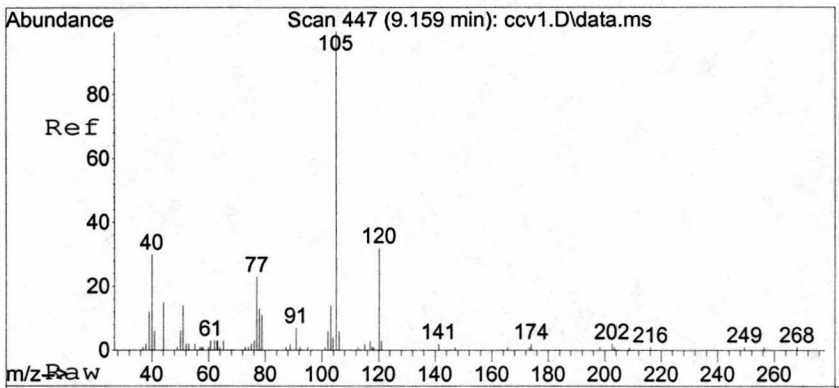
#72
1,2,3-Trichloropropane
Concen: 59.06 ppbv
RT: 8.896 min Scan# 431
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 75 Resp: 28042

Ion	Ratio	Lower	Upper
75	100		
110	49.2	22.6	34.0#
112	23.6	20.7	31.1



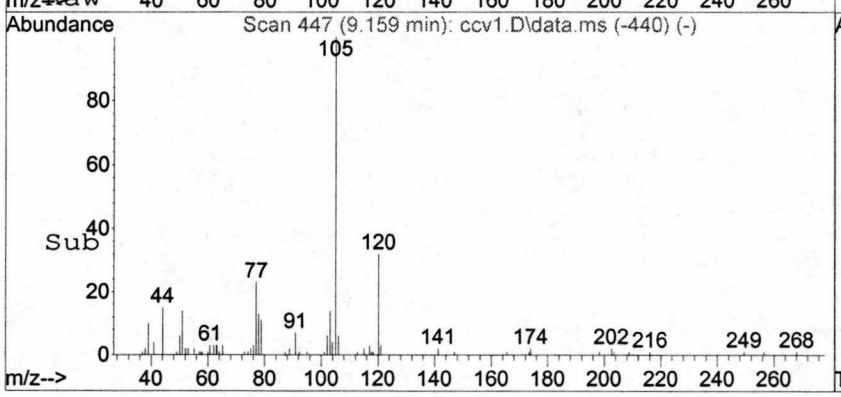


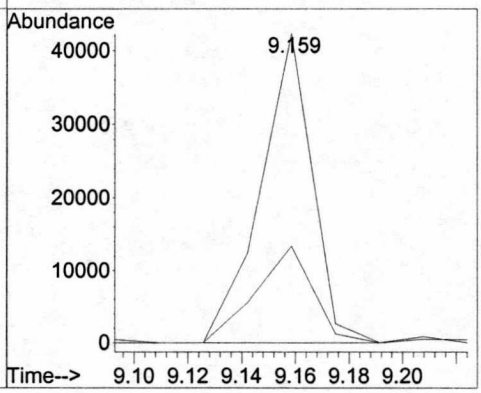


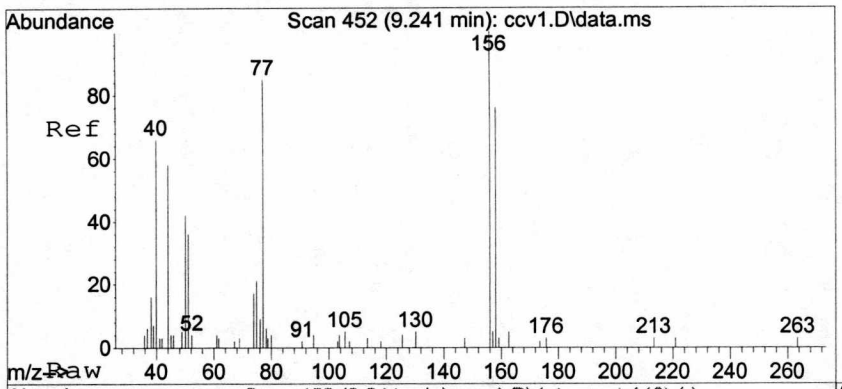
#73
Isopropylbenzene
Concen: 44.29 ppbv
RT: 9.159 min Scan# 447
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:105 Resp: 56566

Ion	Ratio	Lower	Upper
105	100		
120	35.1	25.3	37.9



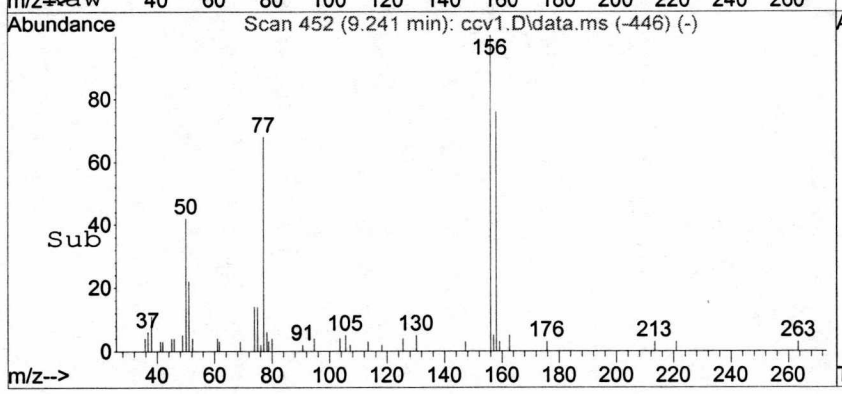


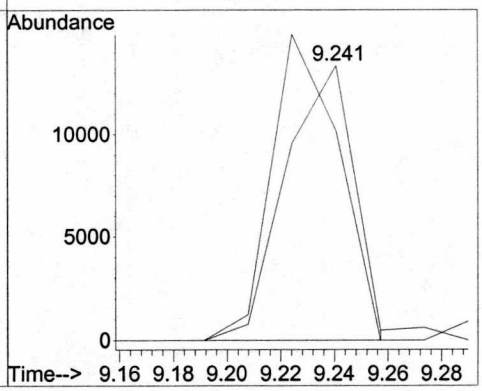


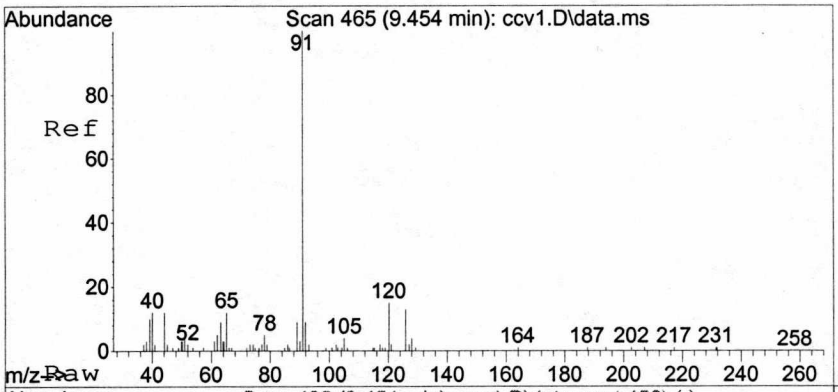
#75
Bromobenzene
Concen: 49.51 ppbv
RT: 9.241 min Scan# 452
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:156 Resp: 23843

Ion	Ratio	Lower	Upper
156	100		
158	108.5	60.8	91.2#



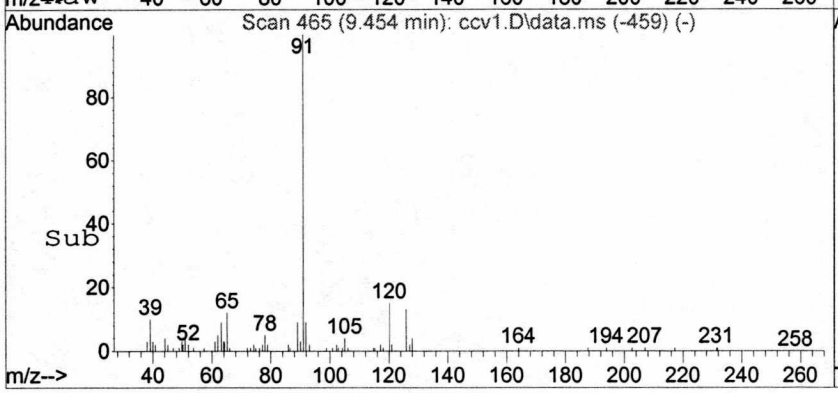


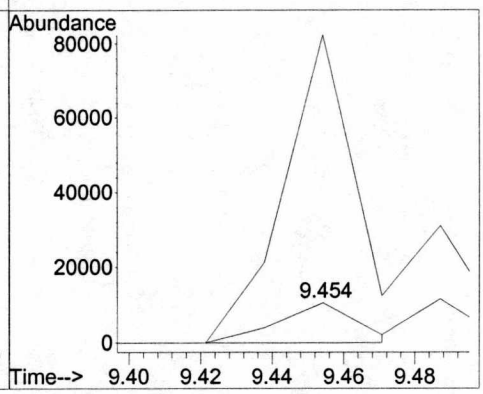


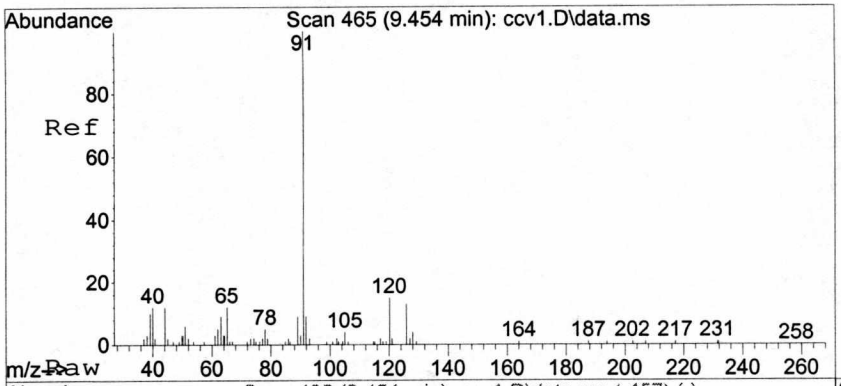
#76
2-Chlorotoluene
Concen: 47.97 ppbv
RT: 9.454 min Scan# 465
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:126 Resp: 16375

Ion	Ratio	Lower	Upper
126	100		
91	697.8	625.9	938.9



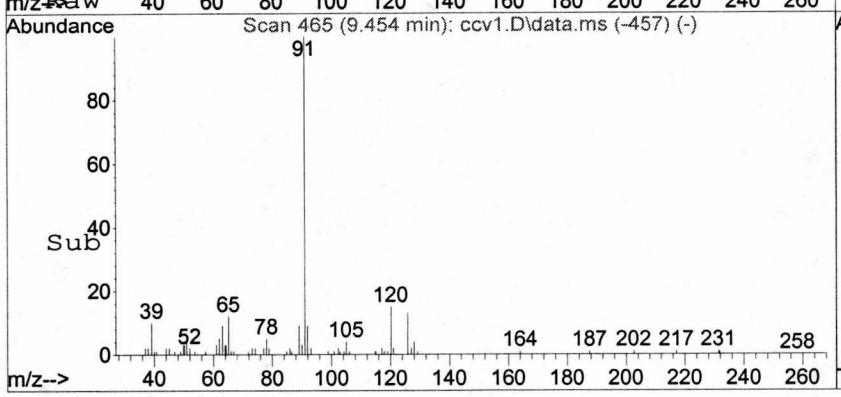


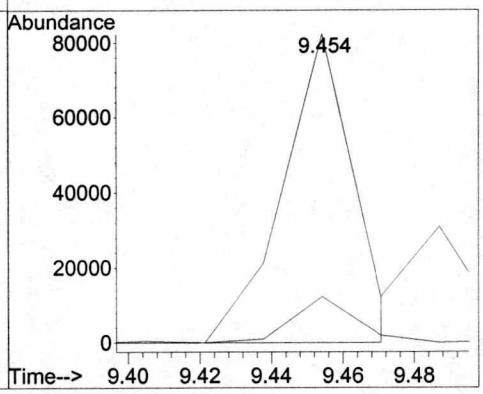


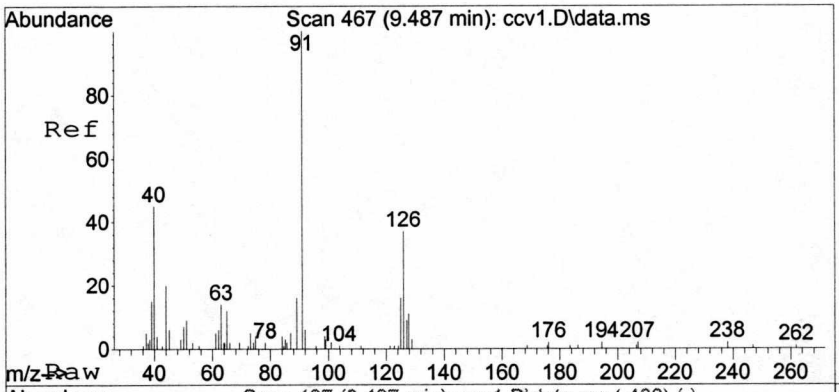
#77
n-Propylbenzene
Concen: 36.44 ppbv
RT: 9.454 min Scan# 465
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 91 Resp: 114264

Ion	Ratio	Lower	Upper
91	100		
120	13.5	12.0	18.0



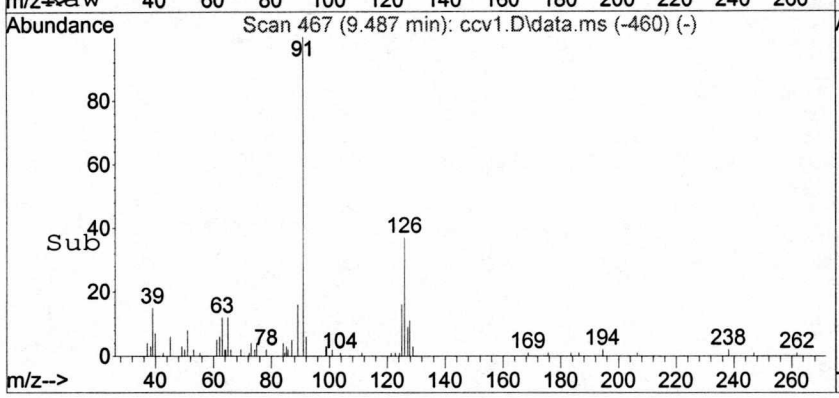


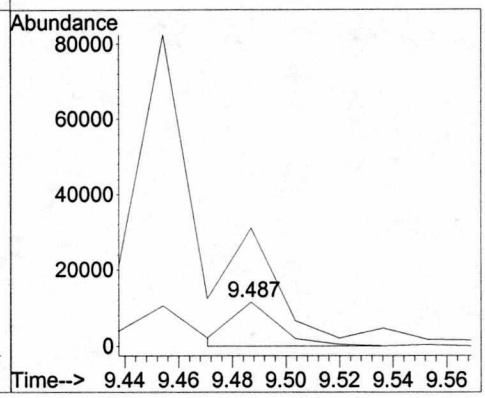


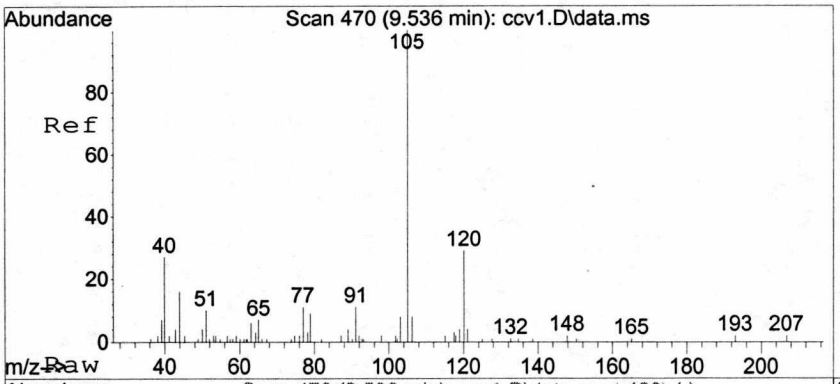
#78
4-Chlorotoluene
Concen: 52.02 ppbv
RT: 9.487 min Scan# 467
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:126 Resp: 13661

Ion	Ratio	Lower	Upper
126	100		
91	0.0	215.9	323.9#



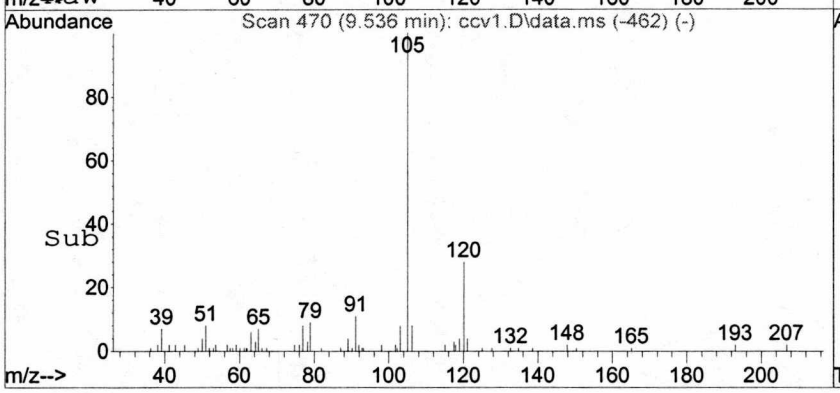


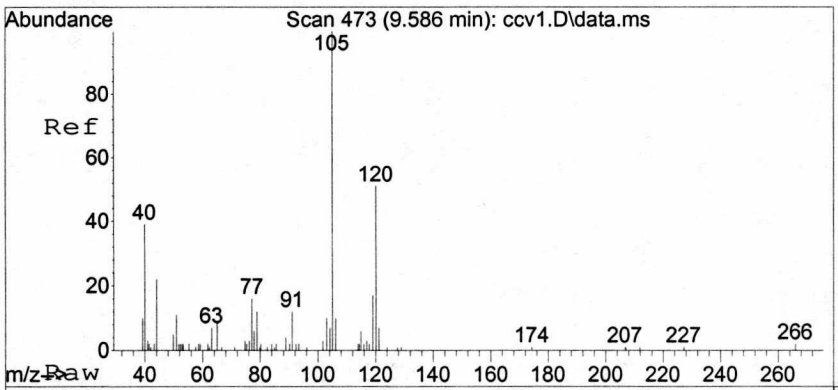


#79
4-Ethyltoluene
Concen: 52.42 ppbv
RT: 9.536 min Scan# 470
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:105 Resp: 64457

Ion	Ratio	Lower	Upper
105	100		
120	27.4	22.9	34.3

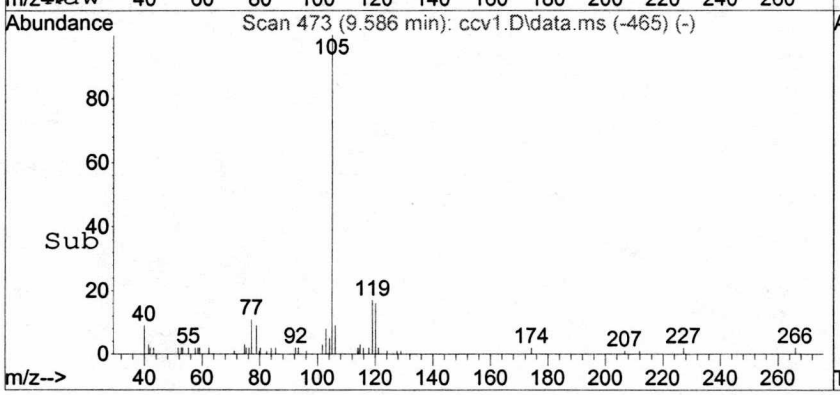


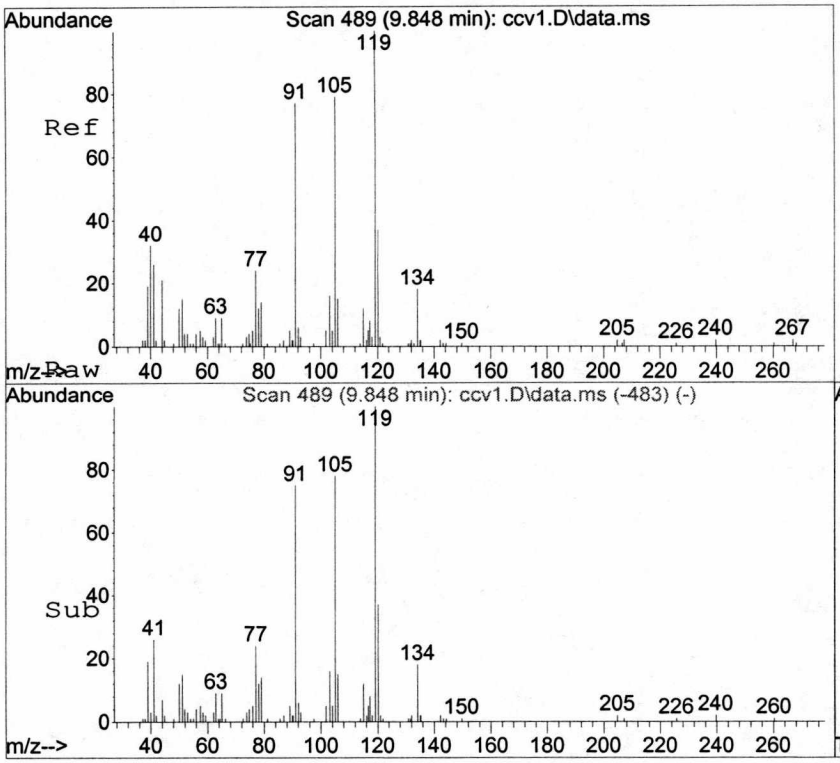


#80
1,3,5-Trimethylbenzene
Concen: 35.44 ppbv m
RT: 9.586 min Scan# 473
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:105 Resp: 37847

Ion	Ratio	Lower	Upper
105	100		
120	65.4	40.8	61.2#

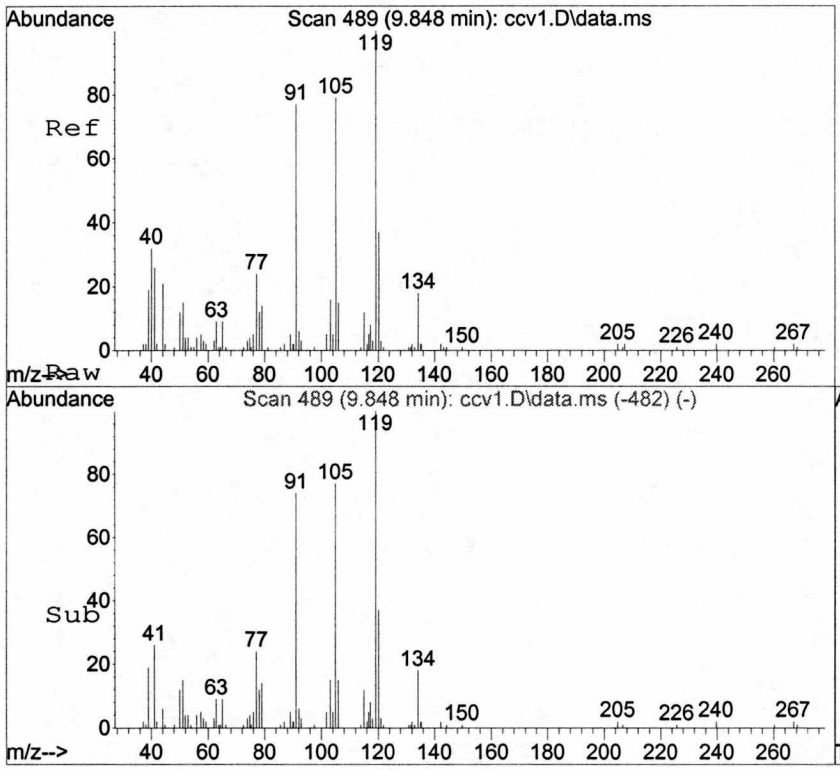




#81
1,2,4-Trimethylbenzene
Concen: 37.62 ppbv
RT: 9.848 min Scan# 489
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:105 Resp: 38934

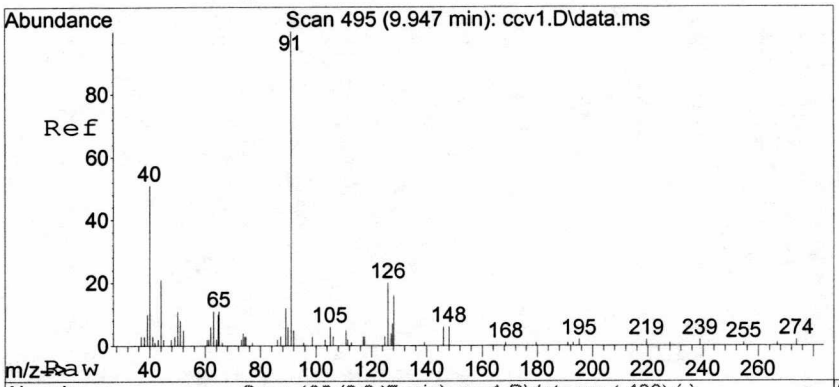
Ion	Ratio	Lower	Upper
105	100		
120	54.7	37.0	55.4



#82
tert-Butylbenzene
Concen: 44.04 ppbv
RT: 9.848 min Scan# 489
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:119 Resp: 51877

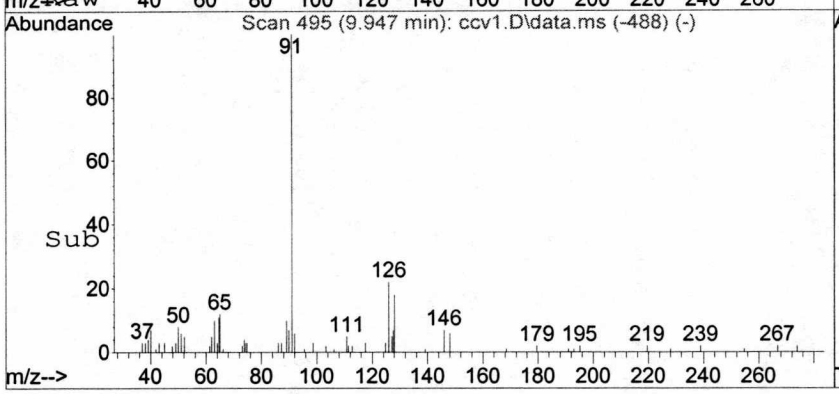
Ion	Ratio	Lower	Upper
119	100		
91	76.9	61.4	92.0

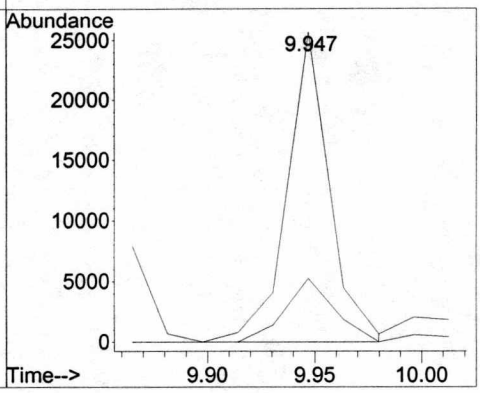


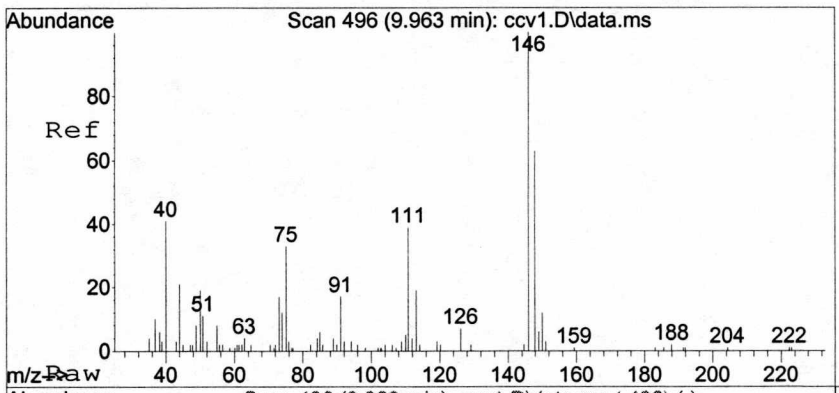
#83
Benzyl Chloride
Concen: 35.23 ppbv
RT: 9.947 min Scan# 495
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 91 Resp: 35215

Ion	Ratio	Lower	Upper
91	100		
126	23.9	16.3	24.5



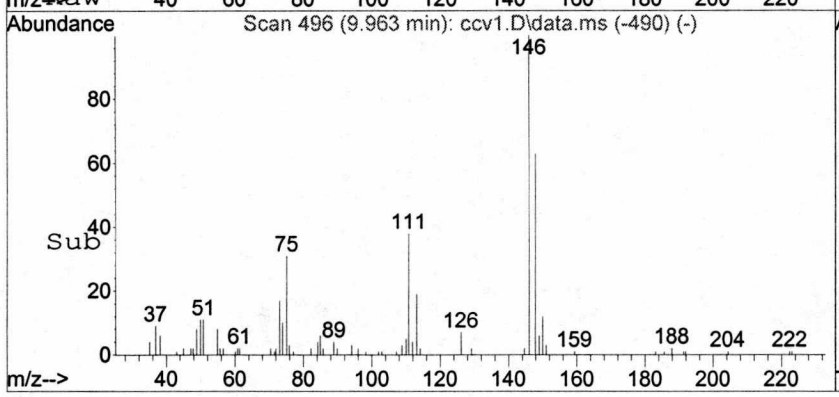


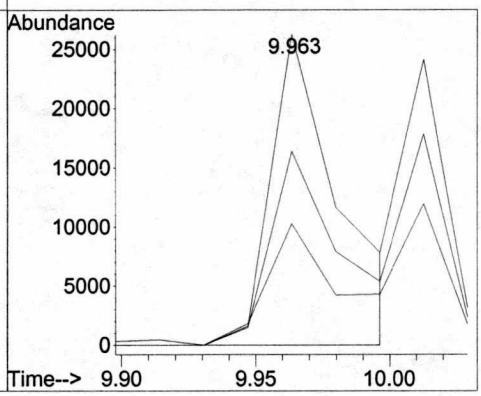


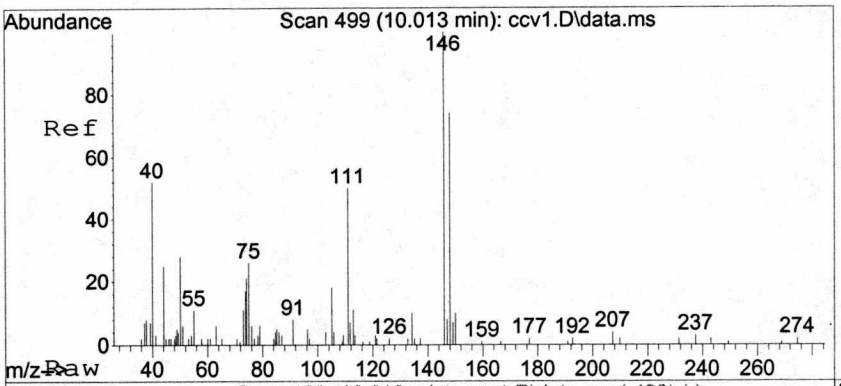
#84
1,3-Dichlorobenzene
Concen: 52.95 ppbv
RT: 9.963 min Scan# 496
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:146 Resp: 46701

Ion	Ratio	Lower	Upper
146	100		
148	65.9	50.0	75.0
111	34.4	31.4	47.0



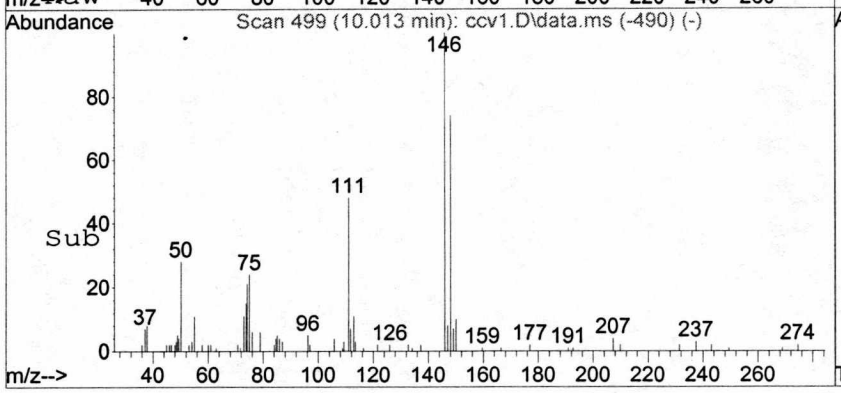


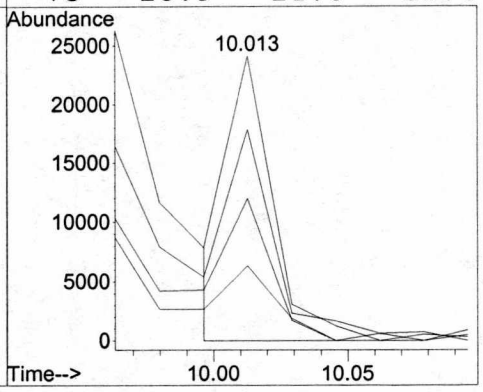


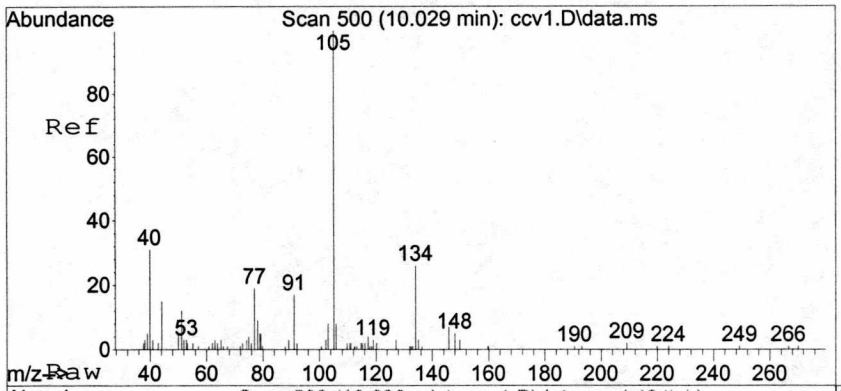
#85
1,4-Dichlorobenzene
Concen: 41.00 ppbv
RT: 10.013 min Scan# 499
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:146 Resp: 28070

Ion	Ratio	Lower	Upper
146	100		
148	62.9	59.2	88.8
111	63.2	39.8	59.6#
75	28.9	21.0	31.6



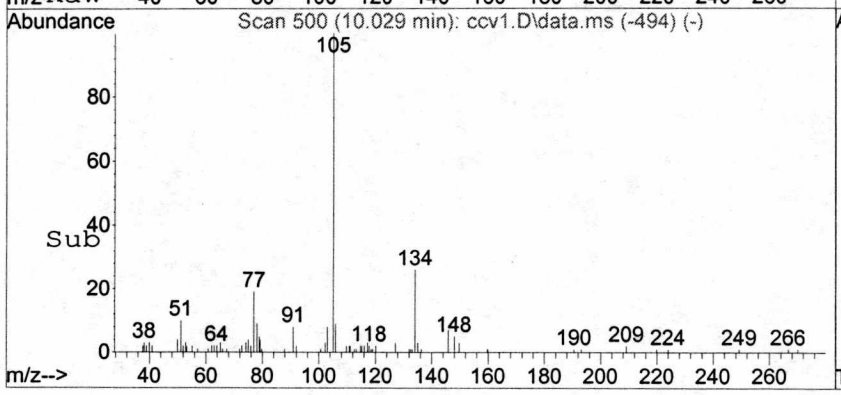


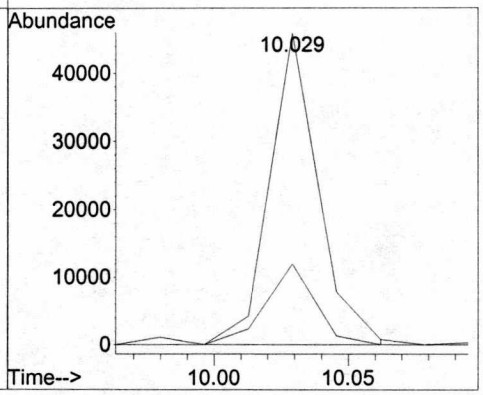


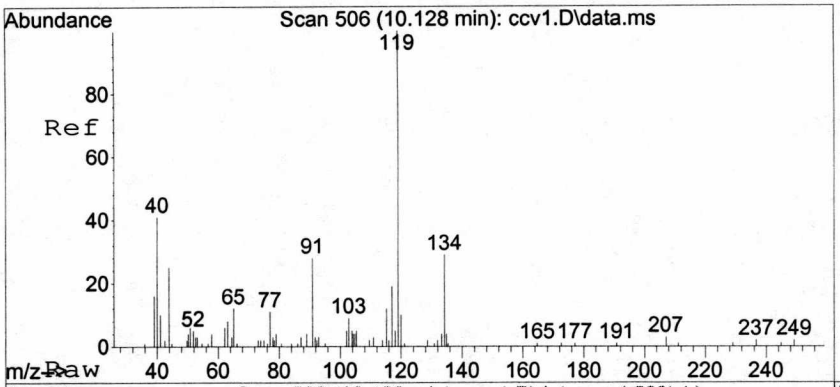
#86
sec-Butylbenzene
Concen: 40.38 ppbv
RT: 10.029 min Scan# 500
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:105 Resp: 58020

Ion	Ratio	Lower	Upper
105	100		
134	26.5	20.8	31.2



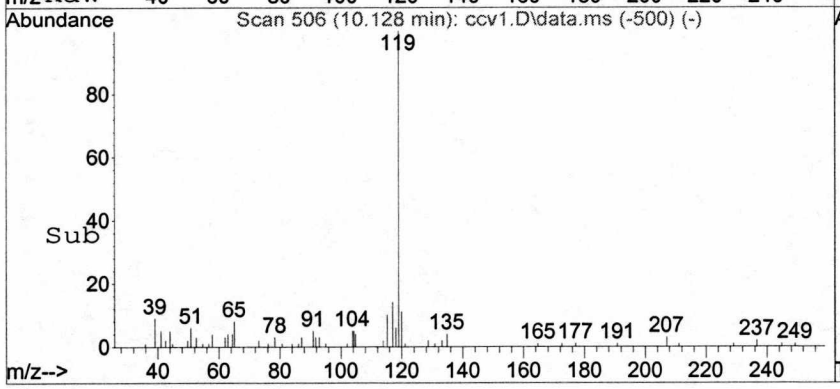


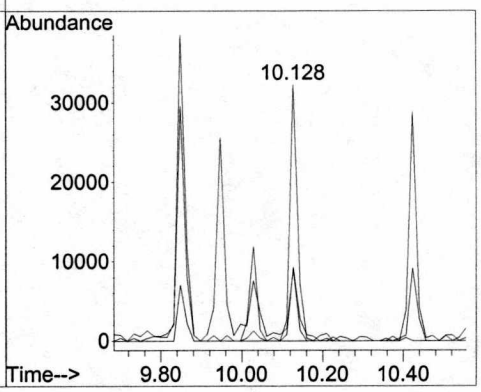


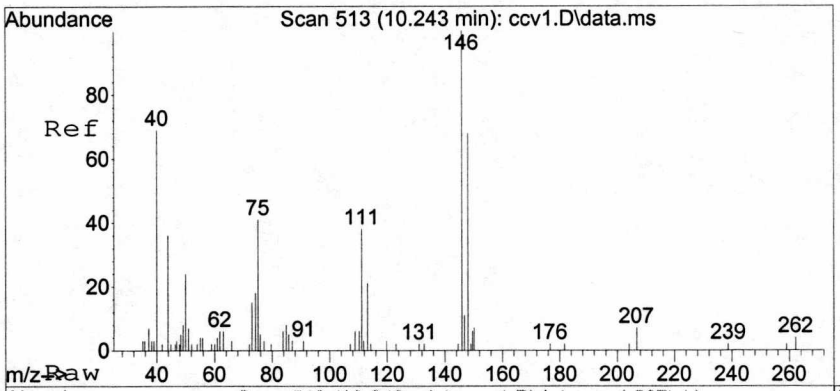
#87
p-Isopropyltoluene
Concen: 35.47 ppbv m
RT: 10.128 min Scan# 506
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:119 Resp: 46807

Ion	Ratio	Lower	Upper
119	100		
91	25.1	22.4	33.6
134	29.7	23.0	34.4



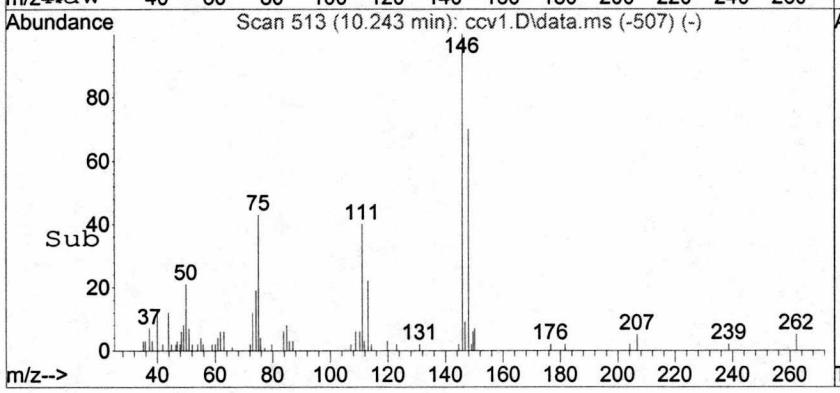


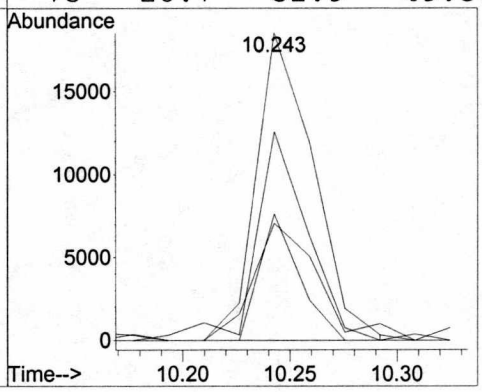


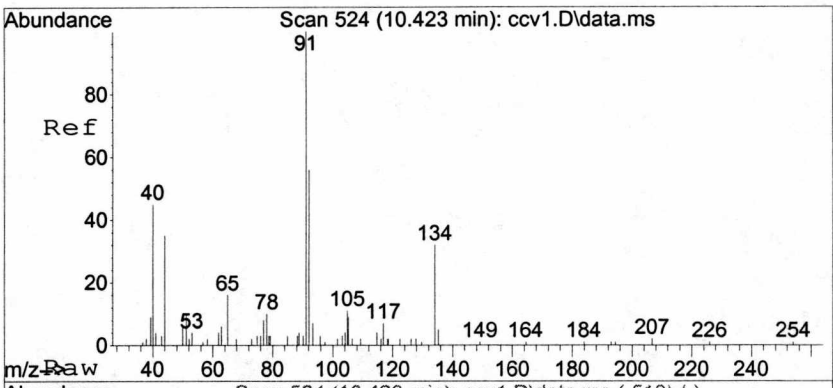
#88
1,2-Dichlorobenzene
Concen: 49.57 ppbv
RT: 10.243 min Scan# 513
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:146 Resp: 34379

Ion	Ratio	Lower	Upper
146	100		
148	56.2	54.3	81.5
111	40.6	30.5	45.7
75	28.7	32.9	49.3#



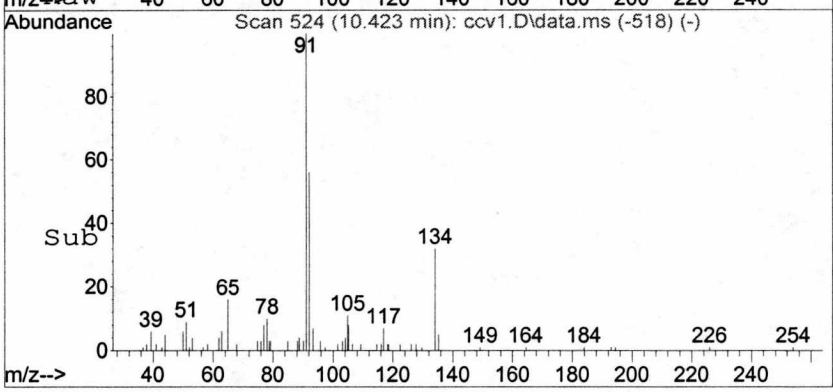


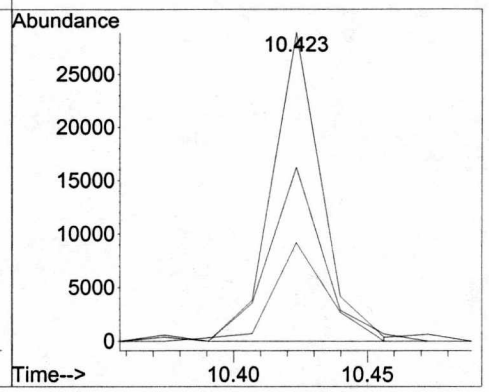


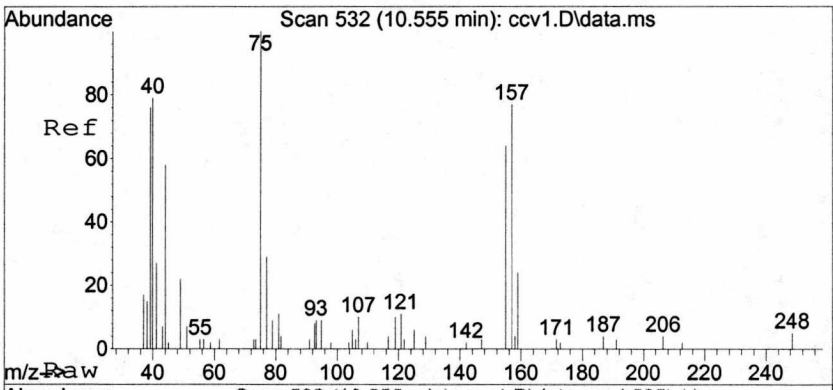
#89
n-Butylbenzene
Concen: 36.82 ppbv
RT: 10.423 min Scan# 524
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 91 Resp: 36748

Ion	Ratio	Lower	Upper
91	100		
92	62.6	44.9	67.3
134	33.8	25.4	38.2



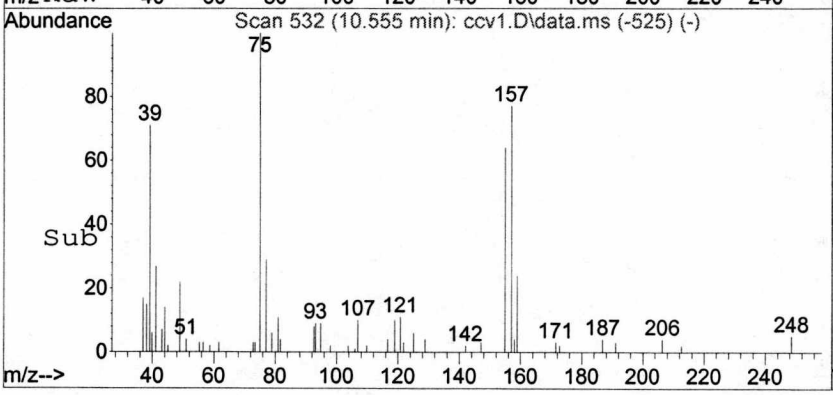


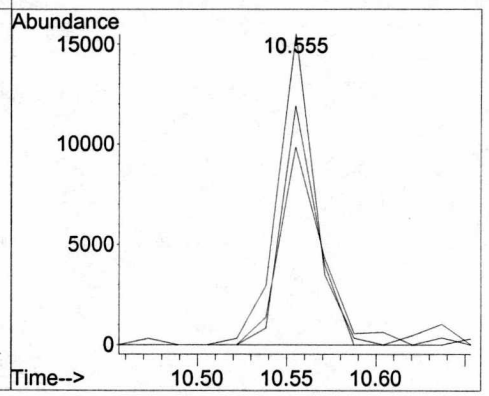


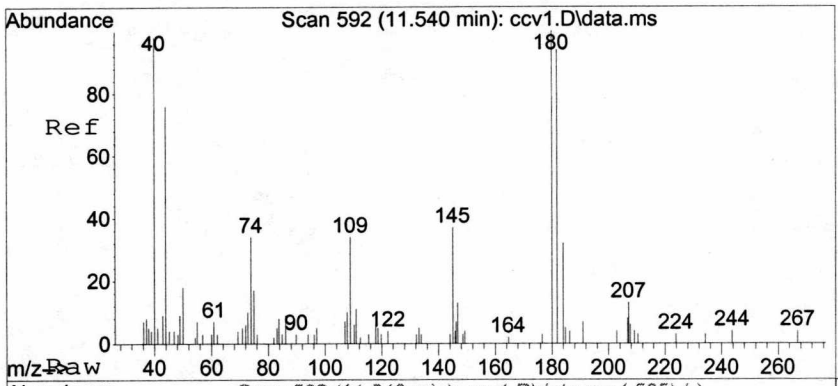
#90
1,2 Dibromo-3-chloropropane
Concen: 56.29 ppbv
RT: 10.555 min Scan# 532
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion: 75 Resp: 22287

Ion	Ratio	Lower	Upper
75	100		
155	74.0	50.9	76.3
157	74.0	61.4	92.2



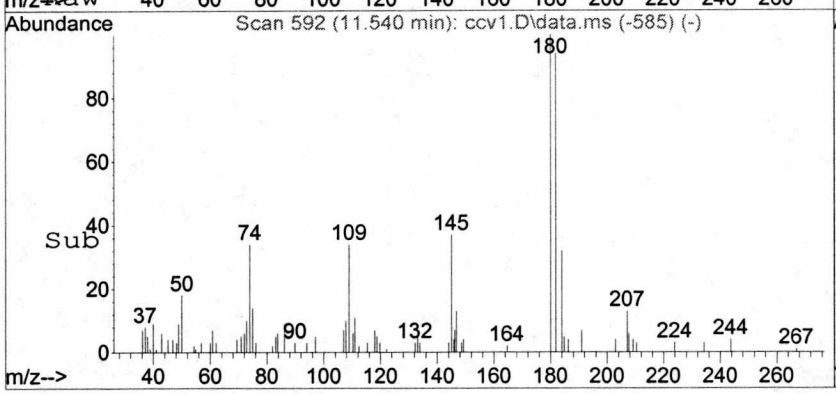


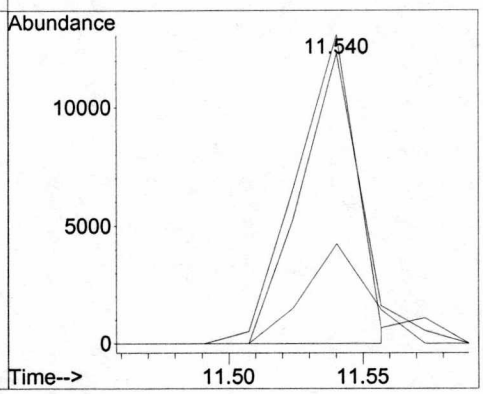


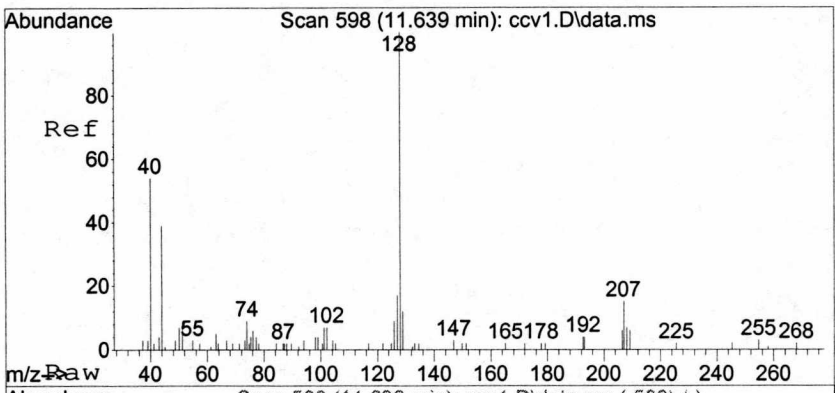
#91
1,2,4-Trichlorobenzene
Concen: 38.60 ppbv
RT: 11.540 min Scan# 592
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:180 Resp: 20517

Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.1	112.7
184	34.7	25.9	38.9



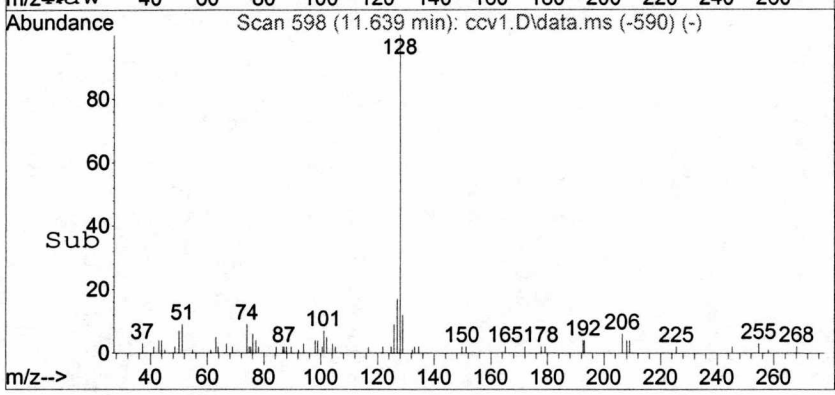


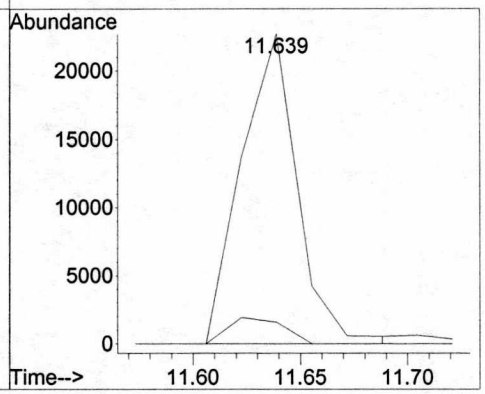


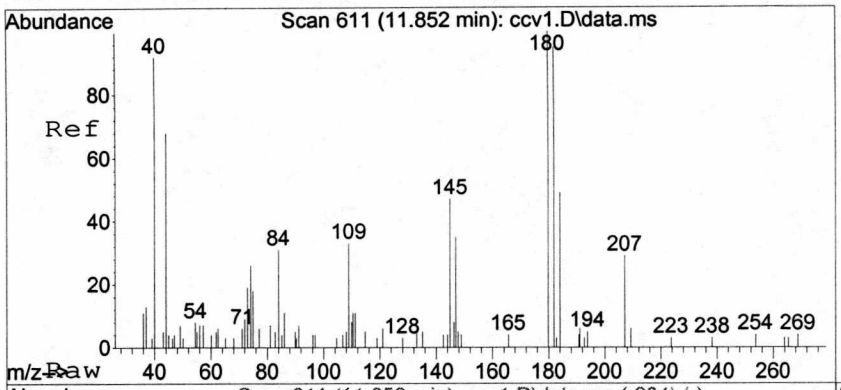
#92
Naphthalene
Concen: 38.74 ppbv
RT: 11.639 min Scan# 598
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:128 Resp: 41157

Ion	Ratio	Lower	Upper
128	100		
102	8.4	5.6	8.4#



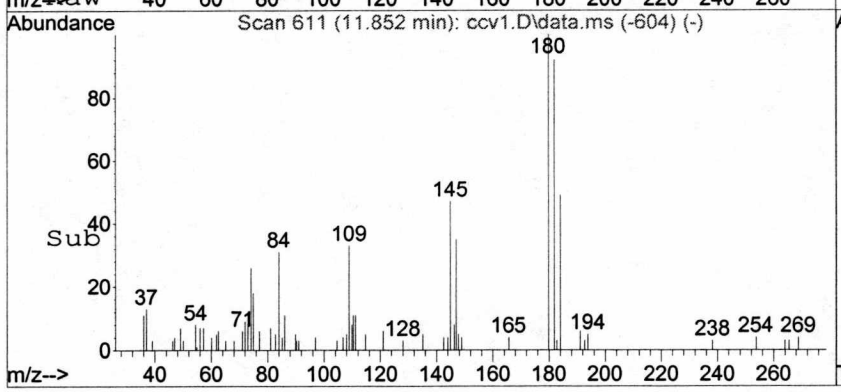


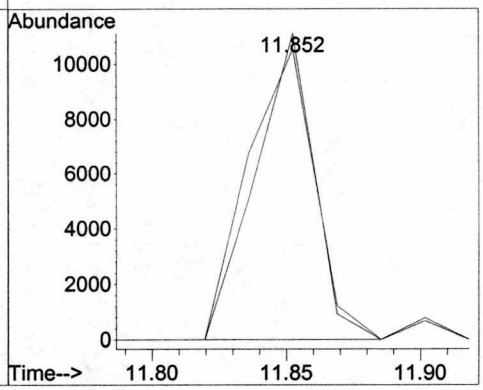


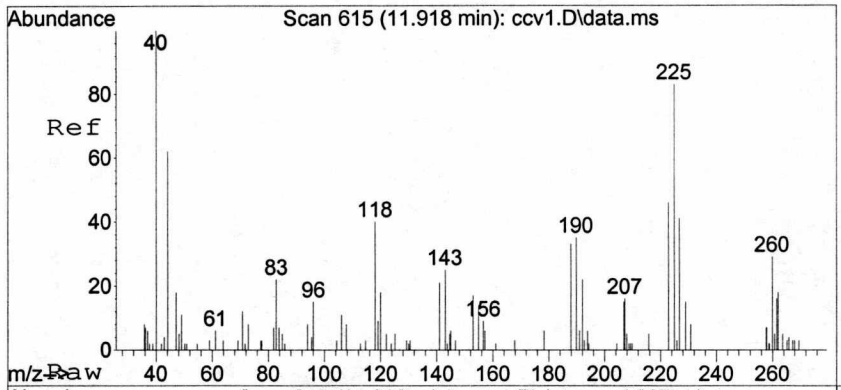
#93
1,2,3-Trichlorobenzene
Concen: 37.86 ppbv
RT: 11.852 min Scan# 611
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:180 Resp: 16869

Ion	Ratio	Lower	Upper
180	100		
182	108.2	75.9	113.9



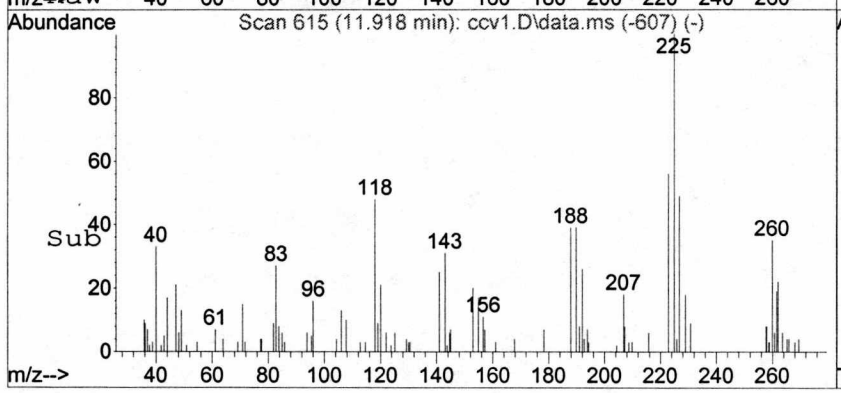


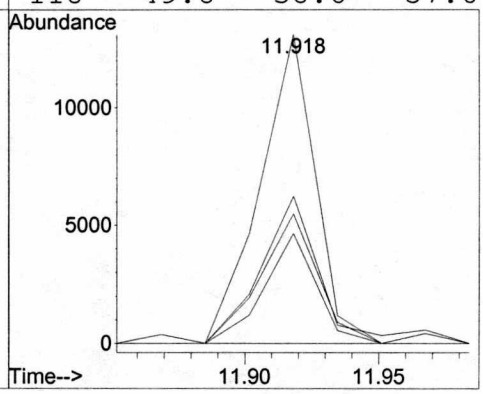


#94
Hexachlorobutadiene
Concen: 43.40 ppbv
RT: 11.918 min Scan# 615
Delta R.T. 0.000 min
Lab File: ccv1.D
Acq: 25 Mar 2015 17:15

Tgt Ion:225 Resp: 18673

Ion	Ratio	Lower	Upper
225	100		
190	43.9	33.4	50.0
260	33.7	28.3	42.5
118	49.8	38.0	57.0





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : blank-3.D
Acq On : 26 Mar 2015 8:07
Operator : mm
Sample : ec52601-blk1
Misc : 1,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 26 08:20:56 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	5.420	130	66021	209.00 ppbv	0.00
42) 1,4-Difluorobenzene	6.218	114	227702	209.00 ppbv	0.00
63) Chlorobenzene-d5	8.288	54	71760	209.00 ppbv	0.02
System Monitoring Compounds					
36) 1,2-Dichloroethane-d4	5.738	65	119486	208.69 ppbv	0.00
Spiked Amount 209.000			Recovery	= 99.85%	
56) Toluene-d8	7.352	98	212610	209.57 ppbv	0.00
Spiked Amount 209.000			Recovery	= 100.27%	
74) 1,4-Bromofluorobenzene	9.093	95	152671	187.81 ppbv	0.00
Spiked Amount 209.000			Recovery	= 89.86%	

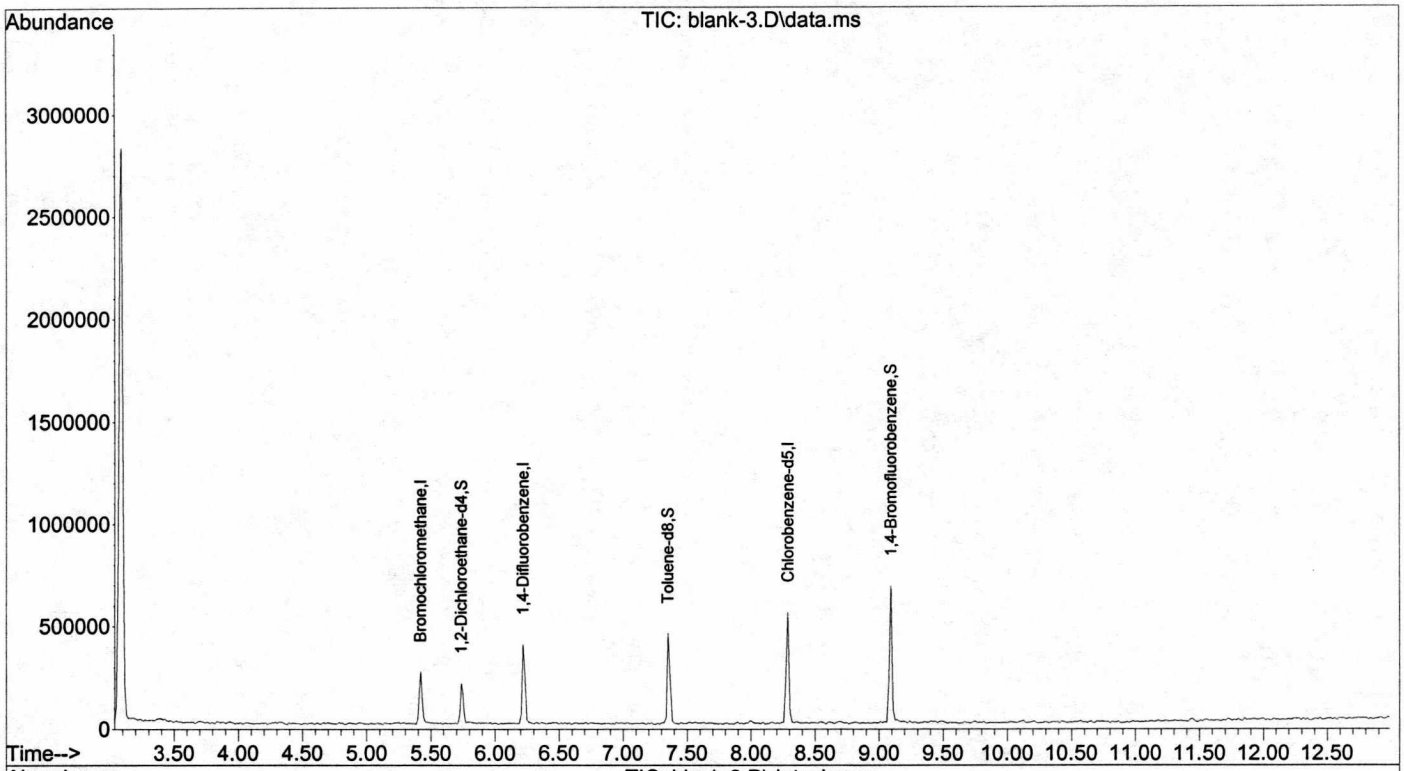
Target Compounds	Qvalue

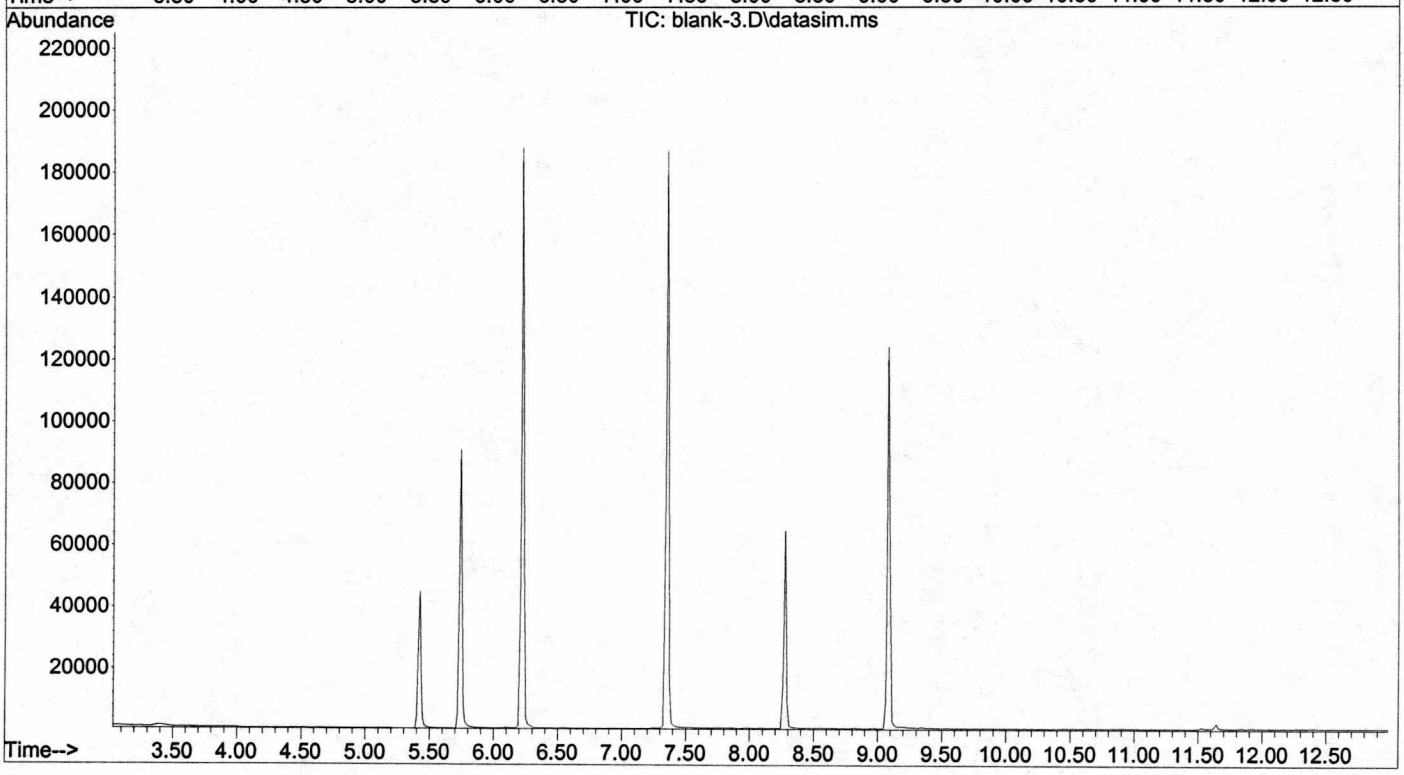
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : blank-3.D
Acq On : 26 Mar 2015 8:07
Operator : mm
Sample : ec52601-blk1
Misc : 1,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 26 08:20:56 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : SBSG19-35 .D
Acq On : 26 Mar 2015 8:51
Operator : mm
Sample : E503117-01
Misc : 1,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 22 15:51:29 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration

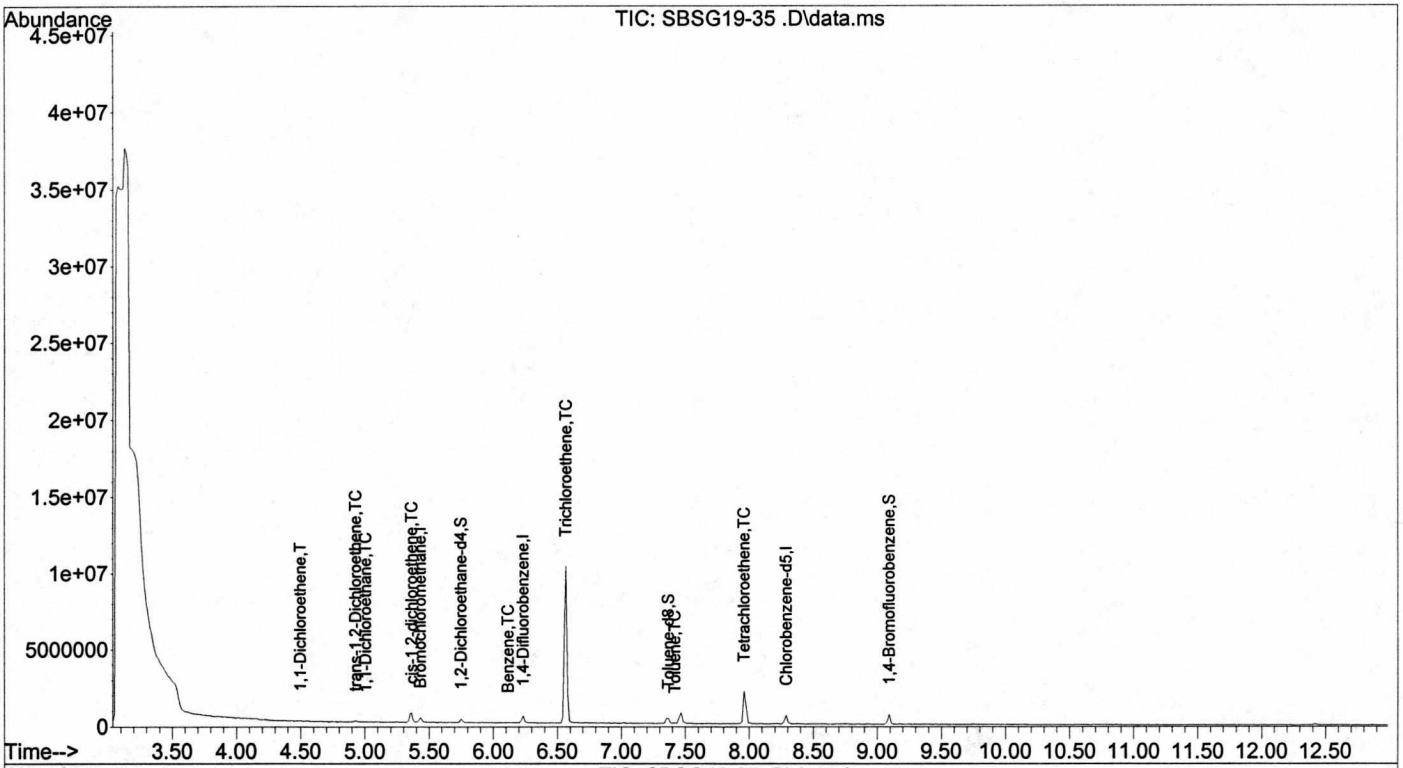
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.431	130	73236	209.00	ppbv	0.01
42) 1,4-Difluorobenzene	6.233	114	224726	209.00	ppbv	0.01
63) Chlorobenzene-d5	8.288	54	68101	209.00	ppbv	0.02
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	5.749	65	129350	203.66	ppbv	0.01
Spiked Amount 209.000			Recovery	=	97.44%	
56) Toluene-d8	7.368	98	217743	217.47	ppbv	0.02
Spiked Amount 209.000			Recovery	=	104.05%	
74) 1,4-Bromofluorobenzene	9.093	95	150617	195.24	ppbv	0.00
Spiked Amount 209.000			Recovery	=	93.42%	
Target Compounds						Qvalue
18) 1,1-Dichloroethene	4.498	61	15948	26.16	ppbv #	83
23) trans-1,2-Dichloroethene	4.928	61	29538	51.53	ppbv #	67
24) 1,1-Dichloroethane	5.006	63	5774	8.32	ppbv #	74
28) cis-1,2-dichloroethene	5.363	61	305194	570.80	ppbv #	86
40) Benzene	6.115	78	4488	5.33	ppbv #	56
48) Trichloroethene	6.568	95	2329356	5763.33	ppbv #	86
58) Toluene	7.417	91	14503	13.48	ppbv	88
62) Tetrachloroethene	7.960	166	524626	906.52	ppbv	87

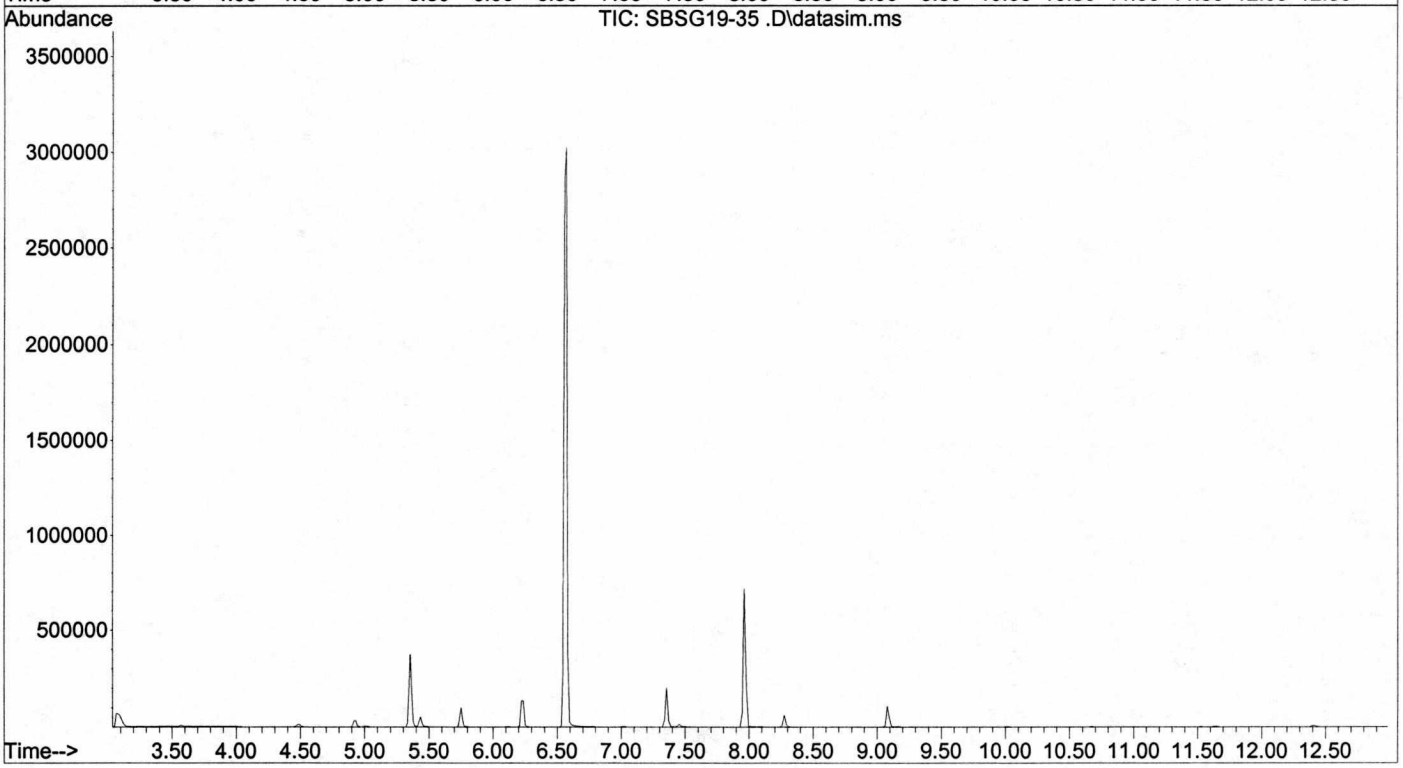
(#) = qualifier out of range (m) = manual integration (+) = signals summed

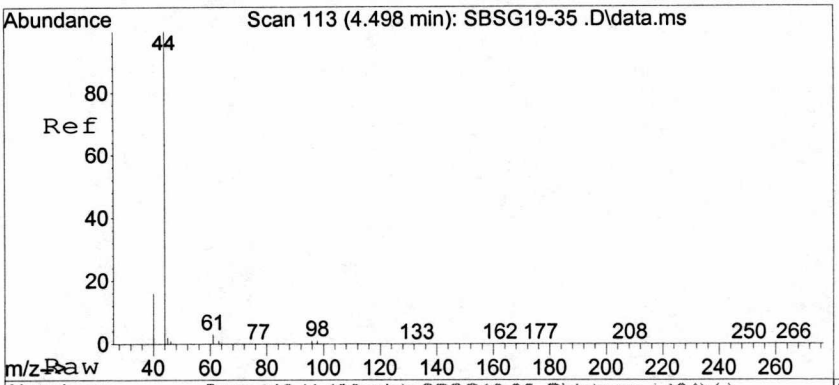
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : SBSG19-35 .D
Acq On : 26 Mar 2015 8:51
Operator : mm
Sample : E503117-01
Misc : 1,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 22 15:51:29 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration



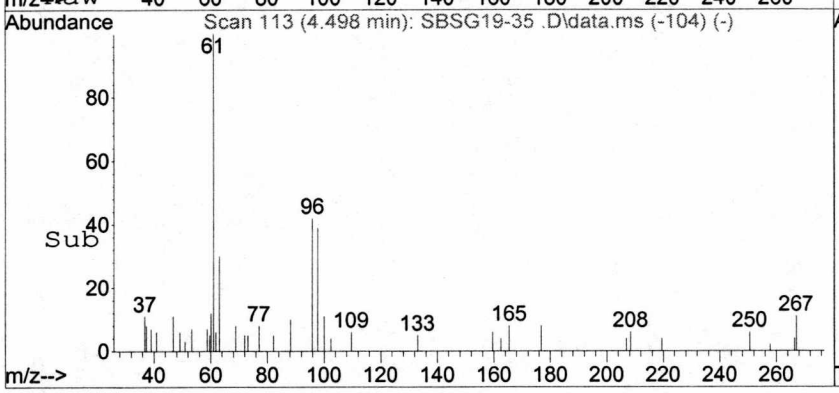


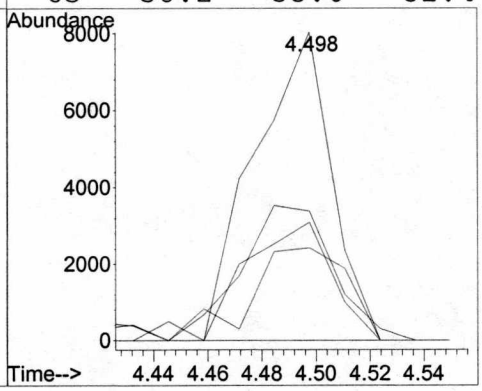


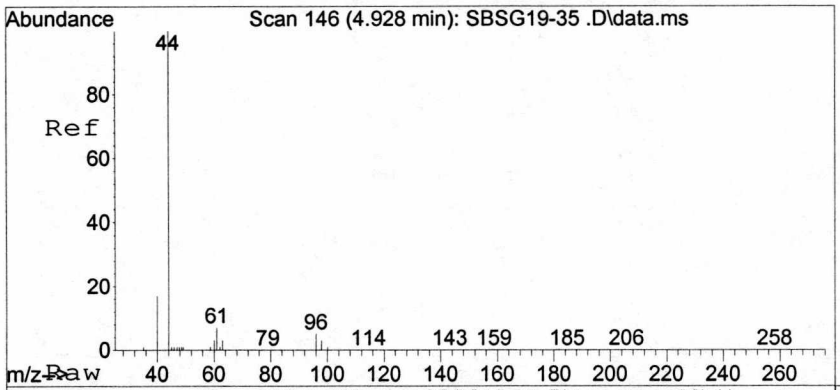
#18
1,1-Dichloroethene
Concen: 26.16 ppbv
RT: 4.498 min Scan# 113
Delta R.T. 0.013 min
Lab File: SBSG19-35 .D
Acq: 26 Mar 2015 8:51

Tgt Ion: 61 Resp: 15948

Ion	Ratio	Lower	Upper
61	100		
96	53.0	58.7	88.1#
98	42.4	29.0	43.4
63	38.2	35.0	52.4



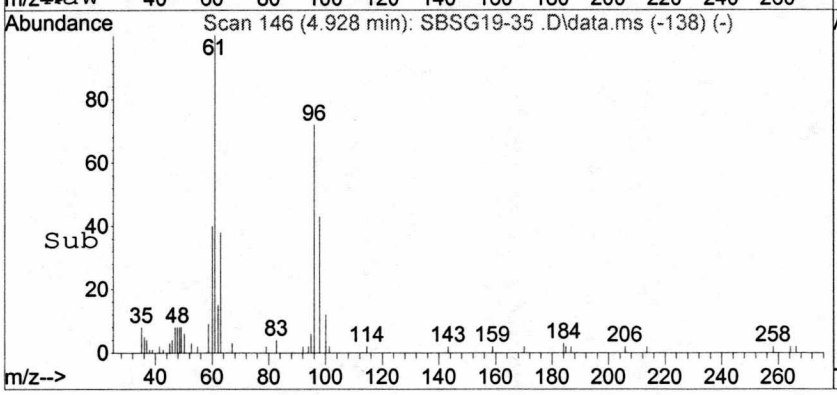


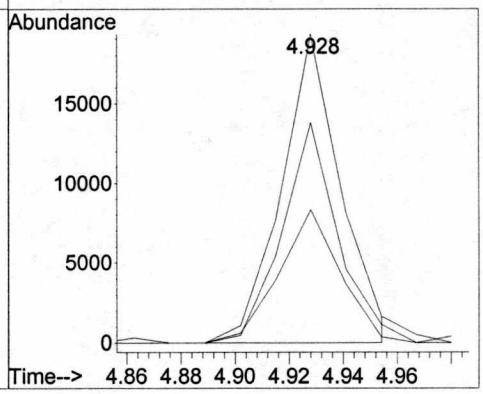


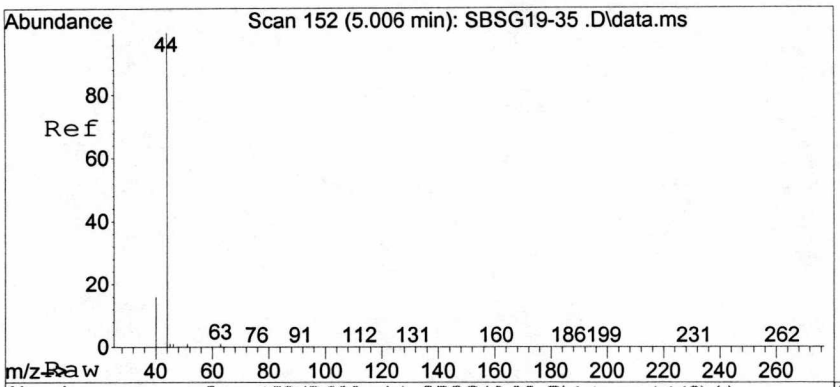
#23
trans-1,2-Dichloroethene
Concen: 51.53 ppbv
RT: 4.928 min Scan# 146
Delta R.T. 0.010 min
Lab File: SBSG19-35 .D
Acq: 26 Mar 2015 8:51

Tgt Ion: 61 Resp: 29538

Ion	Ratio	Lower	Upper
61	100		
96	67.2	31.9	47.9#
98	44.5	26.8	40.2#



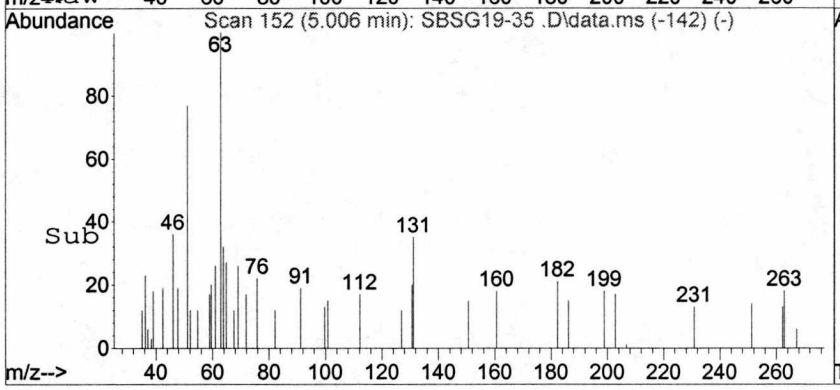


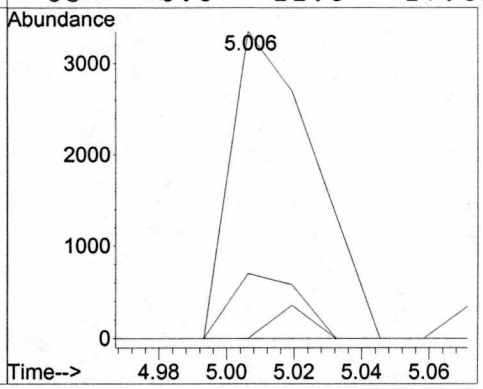


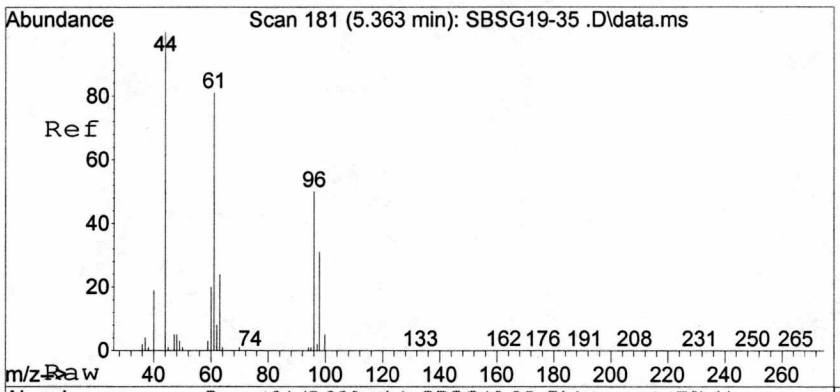
#24
1,1-Dichloroethane
Concen: 8.32 ppbv
RT: 5.006 min Scan# 152
Delta R.T. 0.011 min
Lab File: SBSG19-35 .D
Acq: 26 Mar 2015 8:51

Tgt Ion: 63 Resp: 5774

Ion	Ratio	Lower	Upper
63	100		
65	17.4	19.5	29.3#
83	0.0	11.4	17.2#
85	0.0	11.8	17.6#



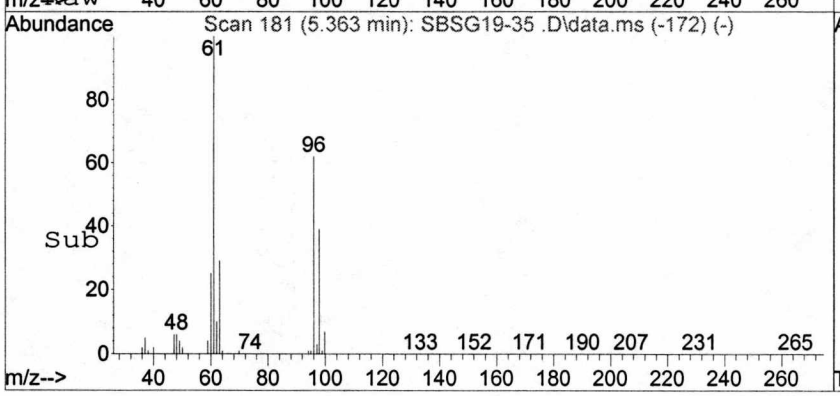


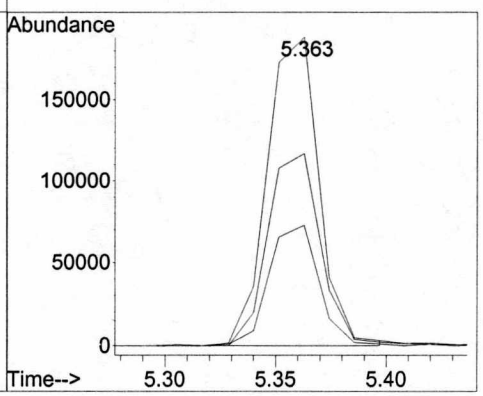


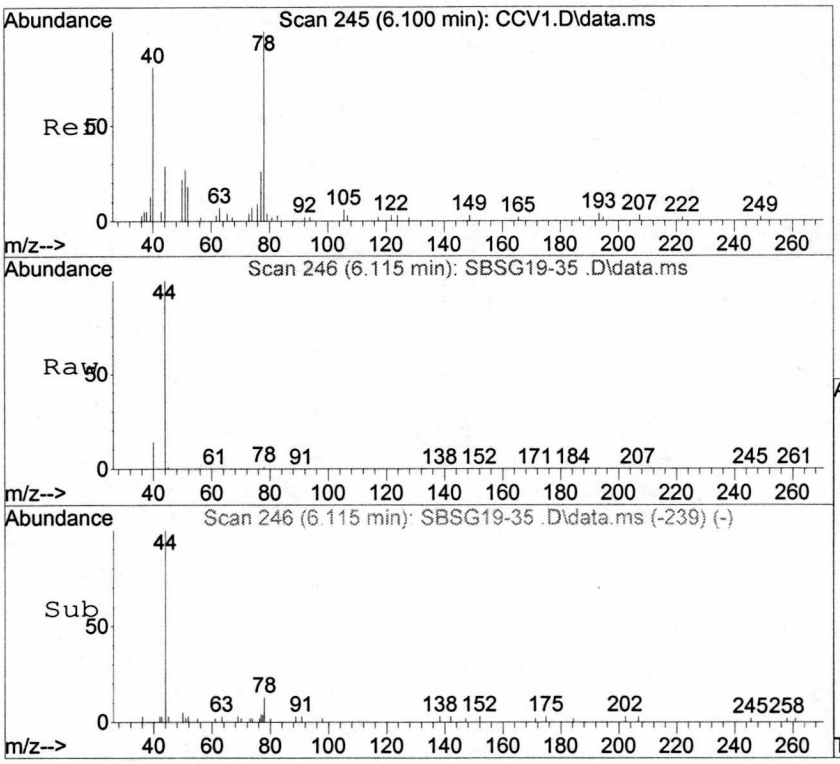
#28
cis-1,2-dichloroethene
Concen: 570.80 ppbv
RT: 5.363 min Scan# 181
Delta R.T. 0.000 min
Lab File: SBSG19-35 .D
Acq: 26 Mar 2015 8:51

Tgt Ion: 61 Resp: 305194

Ion	Ratio	Lower	Upper
61	100		
96	63.4	46.5	69.7
98	37.4	17.4	26.0#



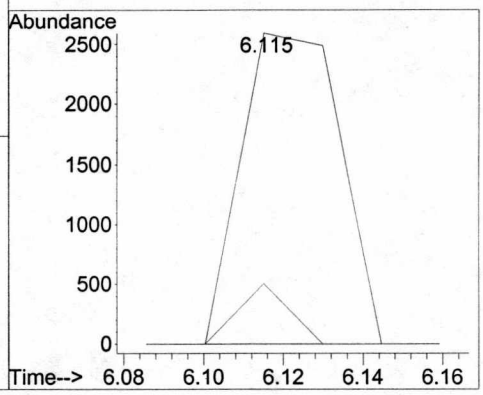


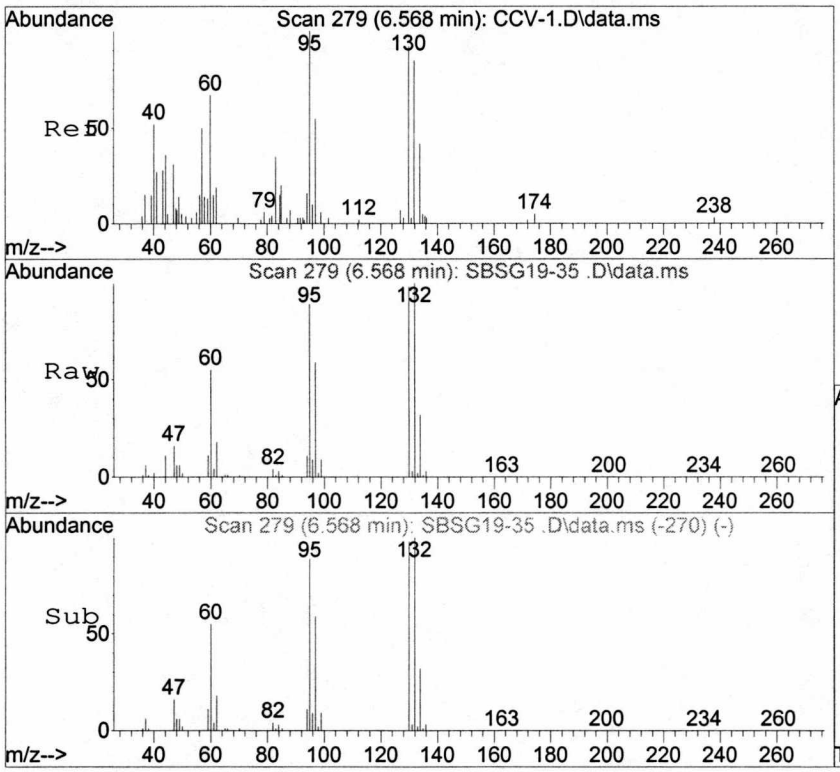


#40
Benzene
Concen: 5.33 ppbv
RT: 6.115 min Scan# 246
Delta R.T. -0.002 min
Lab File: SBSG19-35 .D
Acq: 26 Mar 2015 8:51

Tgt Ion: 78 Resp: 4488

Ion	Ratio	Lower	Upper
78	100		
52	0.0	16.1	24.1#

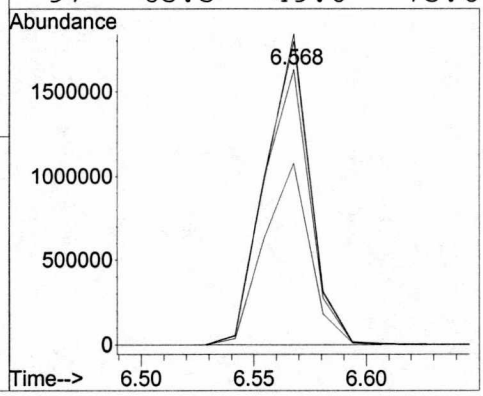


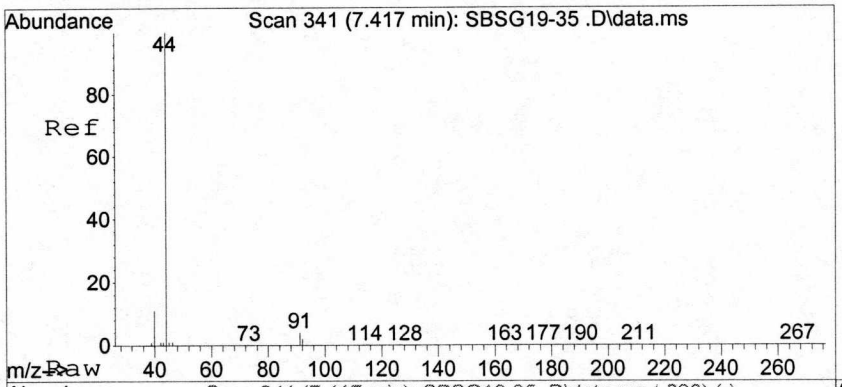


#48
Trichloroethene
Concen: 5763.33 ppbv
RT: 6.568 min Scan# 279
Delta R.T. 0.016 min
Lab File: SBSG19-35 .D
Acq: 26 Mar 2015 8:51

Tgt Ion: 95 Resp: 2329356

Ion	Ratio	Lower	Upper
95	100		
130	107.0	84.2	126.2
132	108.0	59.5	89.3#
97	65.3	49.0	73.6

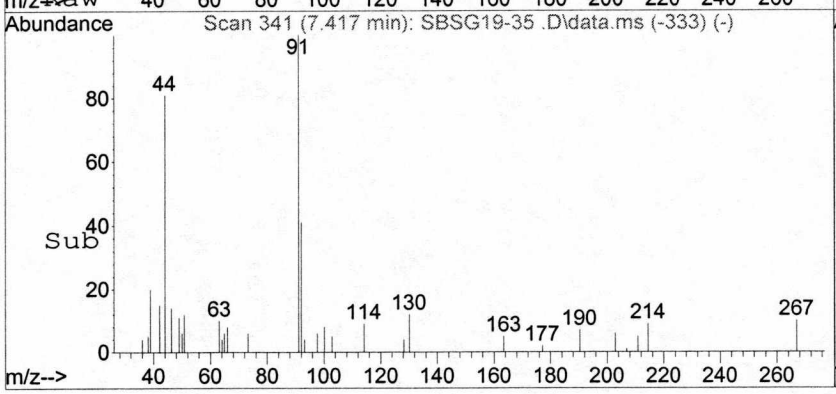


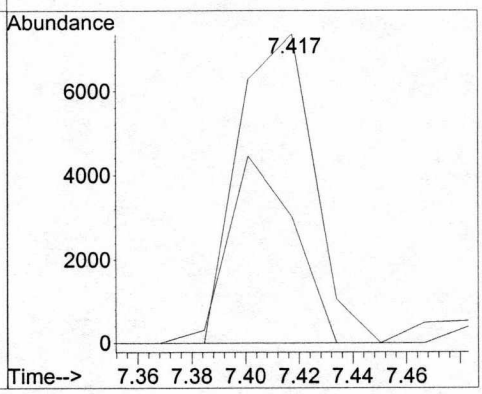


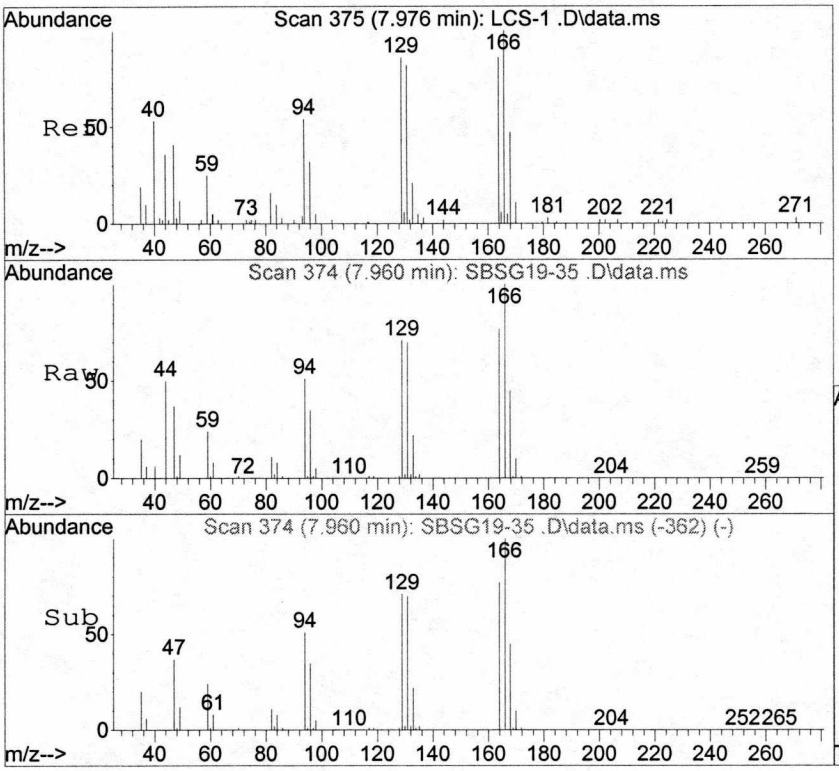
#58
Toluene
Concen: 13.48 ppbv
RT: 7.417 min Scan# 341
Delta R.T. 0.017 min
Lab File: SBSG19-35 .D
Acq: 26 Mar 2015 8:51

Tgt Ion: 91 Resp: 14503

Ion	Ratio	Lower	Upper
91	100		
92	52.9	49.9	74.9



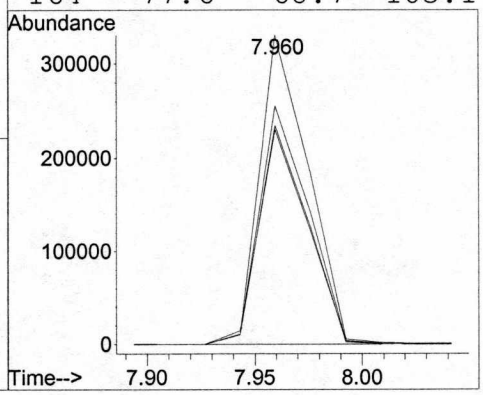




#62
Tetrachloroethene
Concen: 906.52 ppbv
RT: 7.960 min Scan# 374
Delta R.T. 0.002 min
Lab File: SBSG19-35 .D
Acq: 26 Mar 2015 8:51

Tgt Ion:166 Resp: 524626

Ion	Ratio	Lower	Upper
166	100		
131	69.9	65.7	98.5
129	70.4	68.8	103.2
164	77.6	68.7	103.1



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : SBSG19-35 R.D
Acq On : 26 Mar 2015 9:15
Operator : mm
Sample : E503117-01
Misc : 10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 26 09:32:08 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration

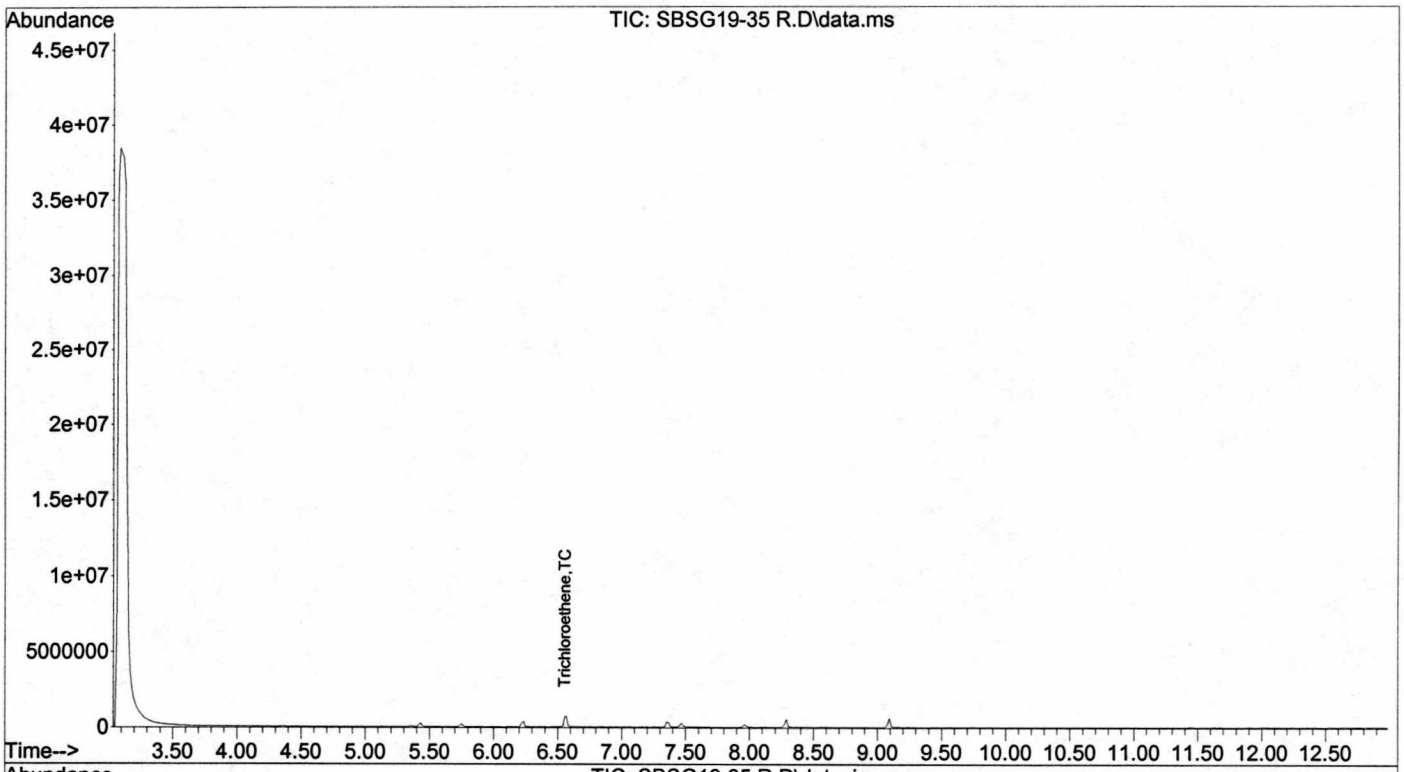
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.431	130	60723	209.00	ppbv	0.01
42) 1,4-Difluorobenzene	6.233	114	212025	209.00	ppbv	0.01
63) Chlorobenzene-d5	8.288	54	71213	209.00	ppbv	0.02
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	5.749	65	122284	232.21	ppbv	0.01
Spiked Amount 209.000			Recovery	=	111.11%	
56) Toluene-d8	7.352	98	209722	222.00	ppbv	0.00
Spiked Amount 209.000			Recovery	=	106.22%	
74) 1,4-Bromofluorobenzene	9.093	95	148168	183.68	ppbv	0.00
Spiked Amount 209.000			Recovery	=	87.89%	
Target Compounds						Qvalue
48) Trichloroethene	6.555	95	186485	489.04	ppbv #	81

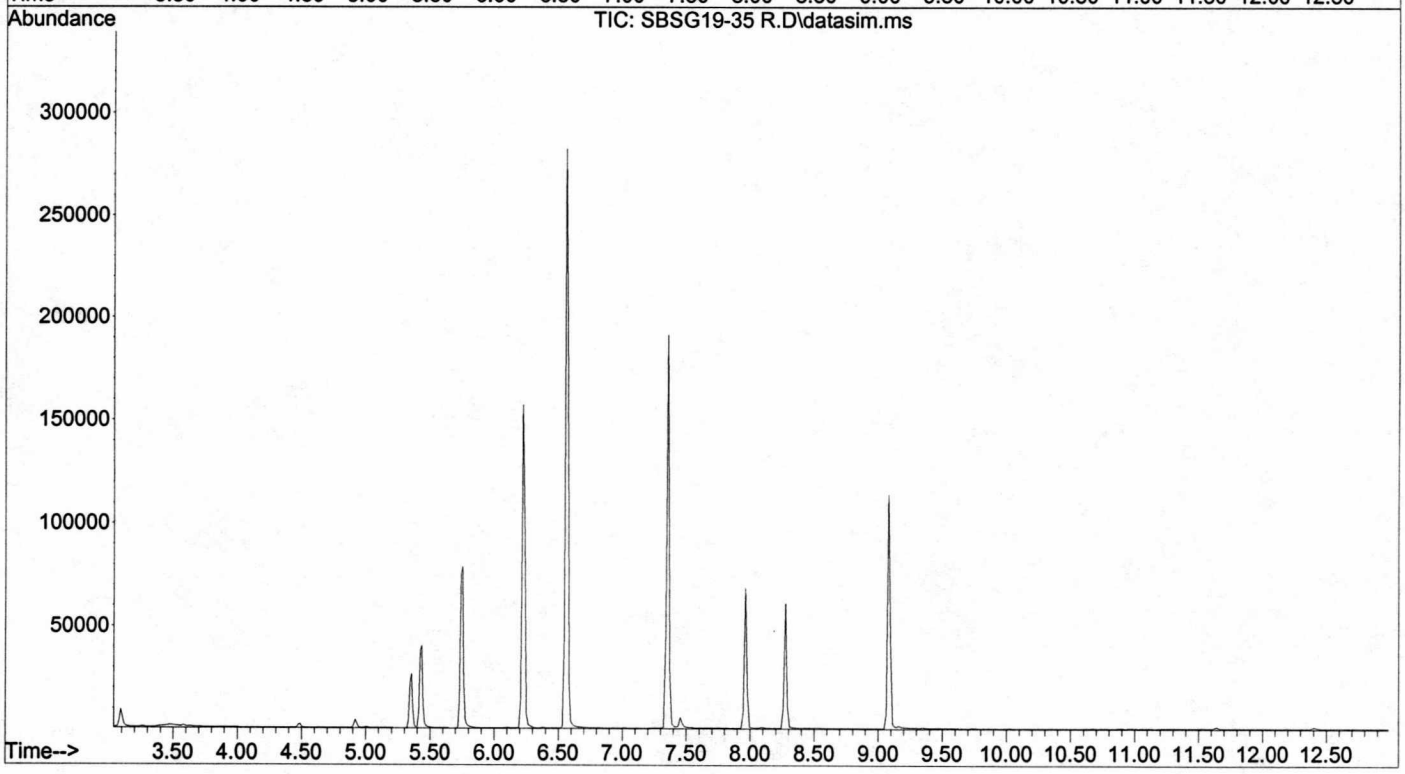
(#) = qualifier out of range (m) = manual integration (+) = signals summed

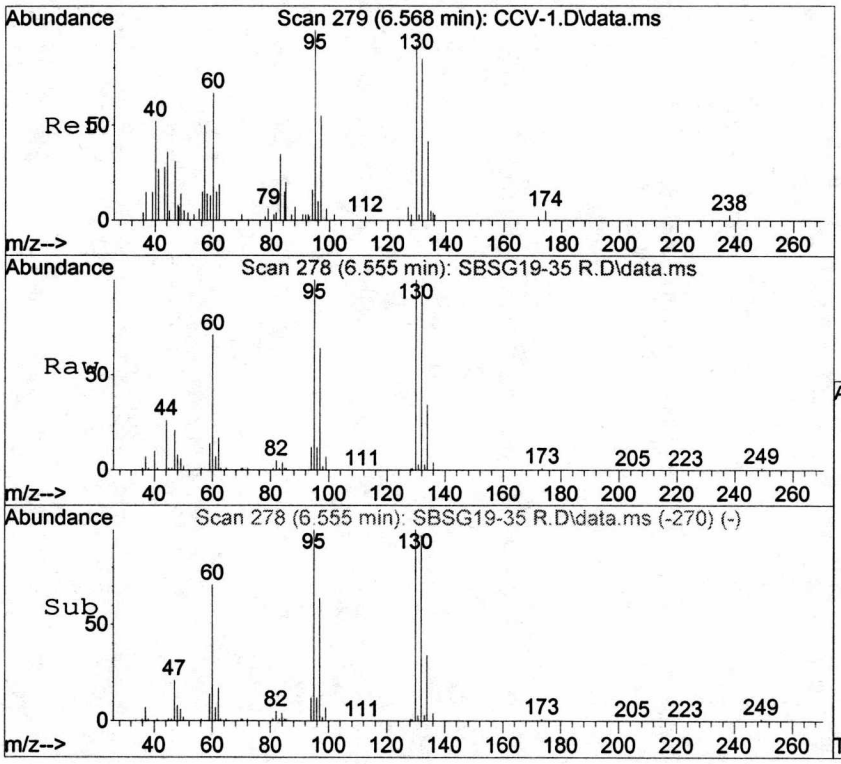
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : SBSG19-35 R.D
Acq On : 26 Mar 2015 9:15
Operator : mm
Sample : E503117-01
Misc : 10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 26 09:32:08 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration



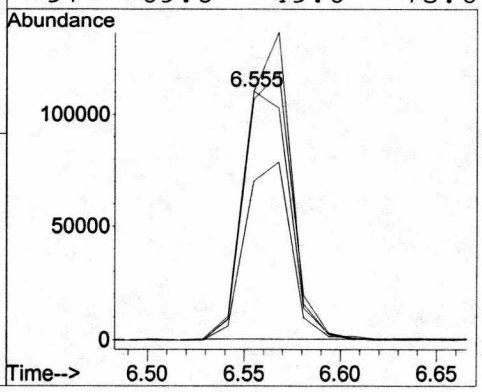




#48
Trichloroethene
Concen: 489.04 ppbv
RT: 6.555 min Scan# 278
Delta R.T. 0.003 min
Lab File: SBSG19-35 R.D
Acq: 26 Mar 2015 9:15

Tgt Ion: 95 Resp: 186485

Ion	Ratio	Lower	Upper
95	100		
130	114.9	84.2	126.2
132	108.1	59.5	89.3#
97	69.8	49.0	73.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : SBSG19-25 .D
Acq On : 26 Mar 2015 9:42
Operator : mm
Sample : E503117-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 15:55:05 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration

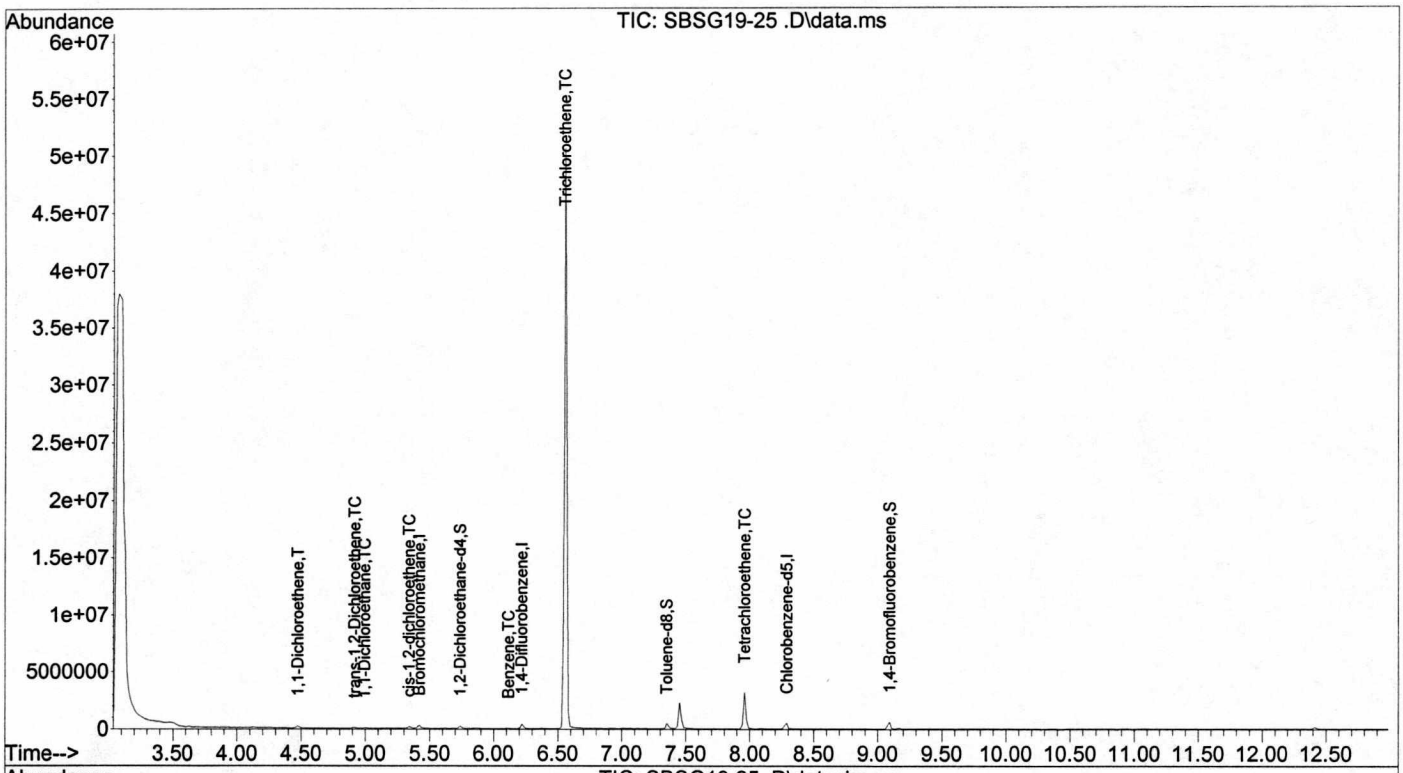
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	5.420	130	64866	209.00 ppbv	0.00
42) 1,4-Difluorobenzene	6.219	114	210868	209.00 ppbv	0.00
63) Chlorobenzene-d5	8.288	54	69768	209.00 ppbv	0.02
System Monitoring Compounds					
36) 1,2-Dichloroethane-d4	5.738	65	119701	212.79 ppbv	0.00
Spiked Amount 209.000			Recovery	= 101.81%	
56) Toluene-d8	7.352	98	207079	220.41 ppbv	0.00
Spiked Amount 209.000			Recovery	= 105.46%	
74) 1,4-Bromofluorobenzene	9.093	95	147626	186.79 ppbv	0.00
Spiked Amount 209.000			Recovery	= 89.37%	
Target Compounds					Qvalue
18) 1,1-Dichloroethene	4.472	61	89803	166.34 ppbv #	80
23) trans-1,2-Dichloroethene	4.915	61	25230	49.70 ppbv #	83
24) 1,1-Dichloroethane	4.994	63	18615	30.29 ppbv #	78
28) cis-1,2-dichloroethene	5.340	61	68245	144.11 ppbv #	83
40) Benzene	6.115	78	13184	17.66 ppbv	99
48) Trichloroethene	6.555	95	10776135	28414.70 ppbv #	87
62) Tetrachloroethene	7.960	166	688508	1267.88 ppbv	87

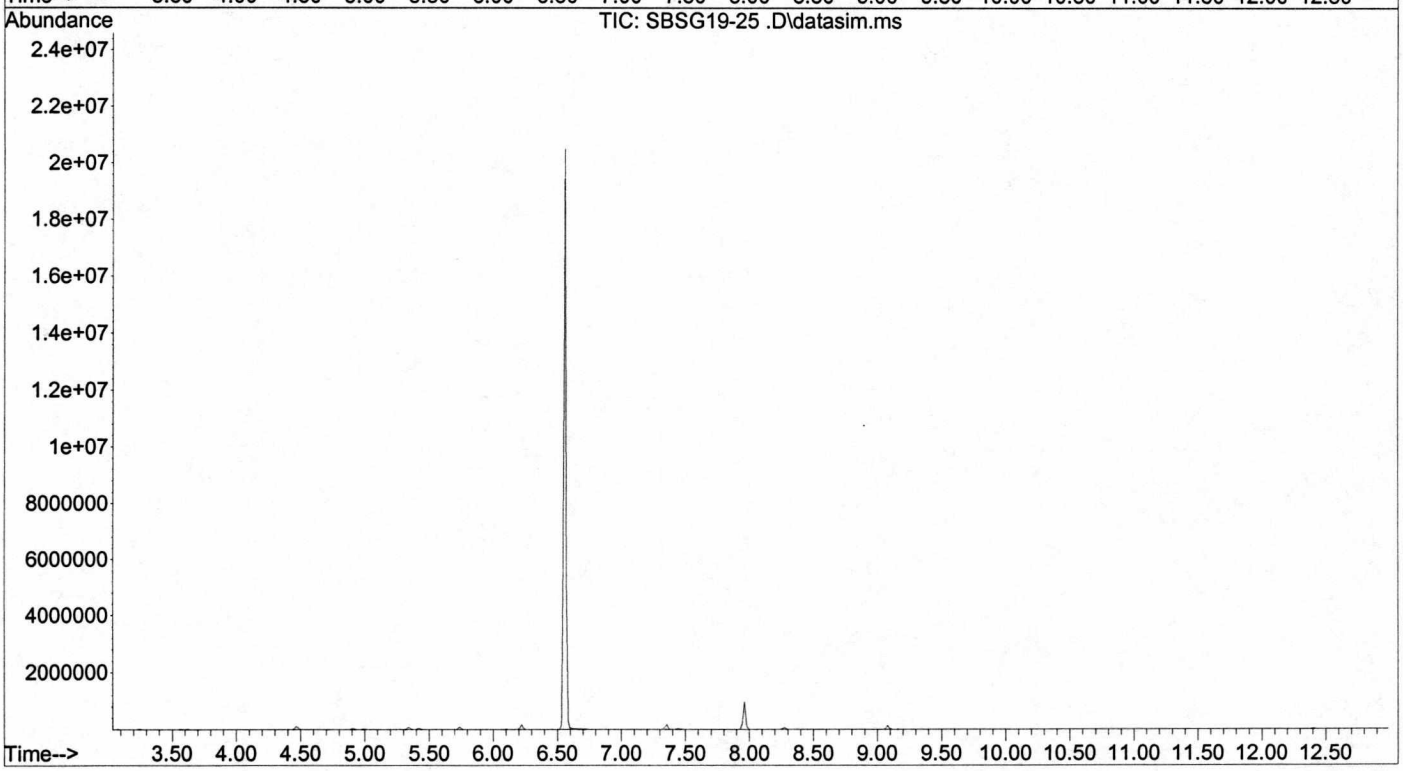
(#) = qualifier out of range (m) = manual integration (+) = signals summed

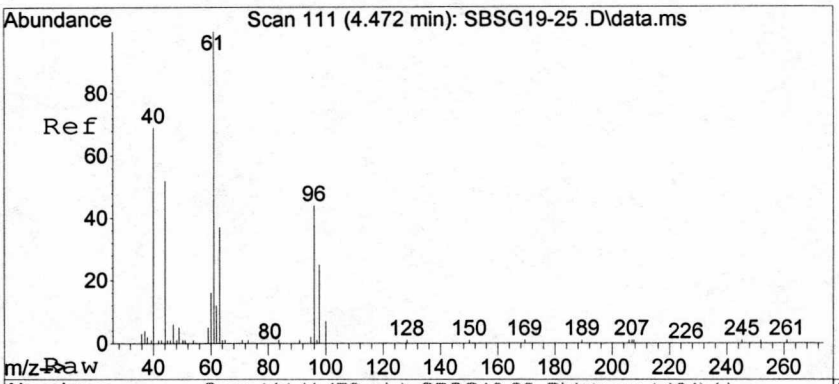
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : SBSG19-25 .D
Acq On : 26 Mar 2015 9:42
Operator : mm
Sample : E503117-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 15:55:05 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration



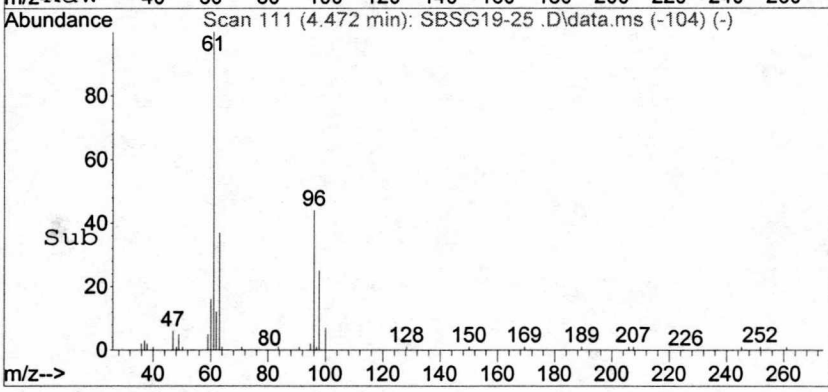


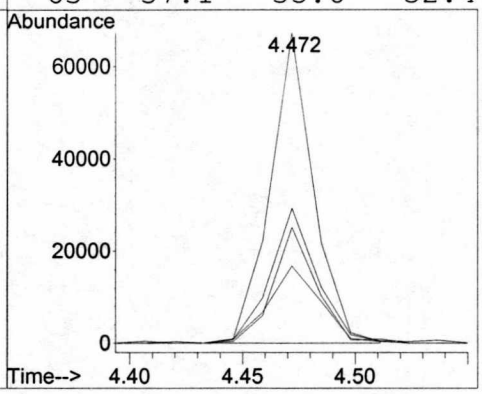


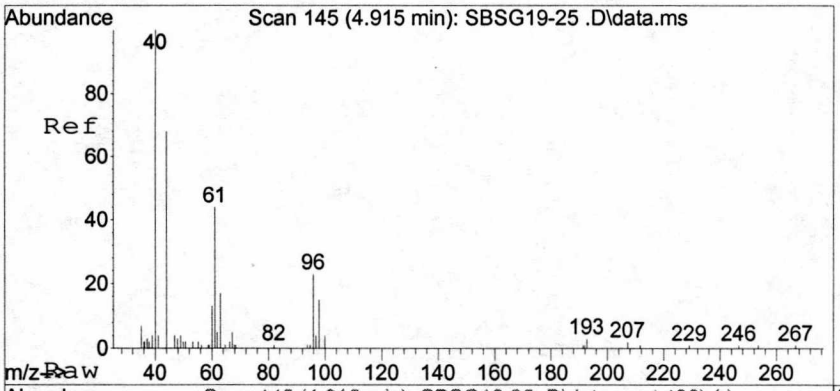
#18
1,1-Dichloroethene
Concen: 166.34 ppbv
RT: 4.472 min Scan# 111
Delta R.T. -0.013 min
Lab File: SBSG19-25 .D
Acq: 26 Mar 2015 9:42

Tgt Ion: 61 Resp: 89803

Ion	Ratio	Lower	Upper
61	100		
96	47.7	58.7	88.1#
98	30.3	29.0	43.4
63	37.1	35.0	52.4



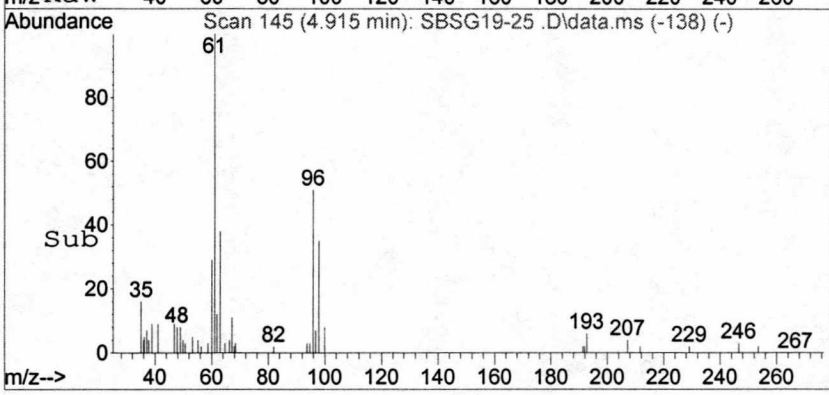


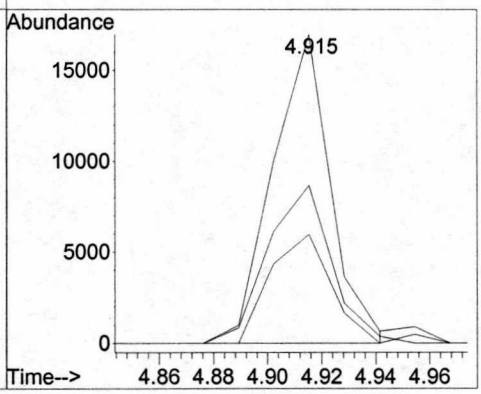


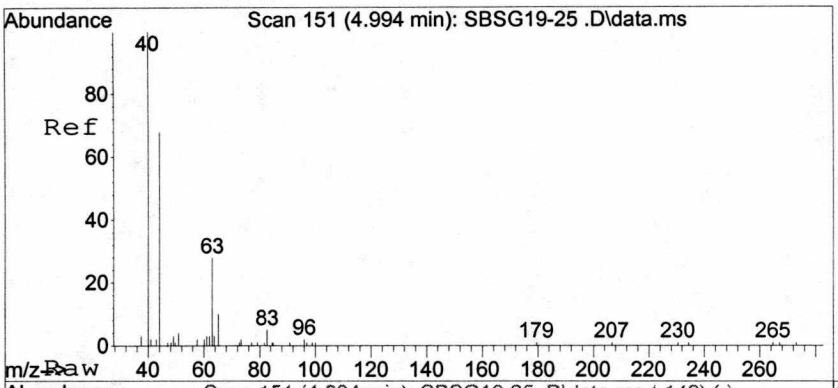
#23
trans-1,2-Dichloroethene
Concen: 49.70 ppbv
RT: 4.915 min Scan# 145
Delta R.T. -0.002 min
Lab File: SBSG19-25 .D
Acq: 26 Mar 2015 9:42

Tgt Ion: 61 Resp: 25230

Ion	Ratio	Lower	Upper
61	100		
96	56.4	31.9	47.9#
98	37.1	26.8	40.2



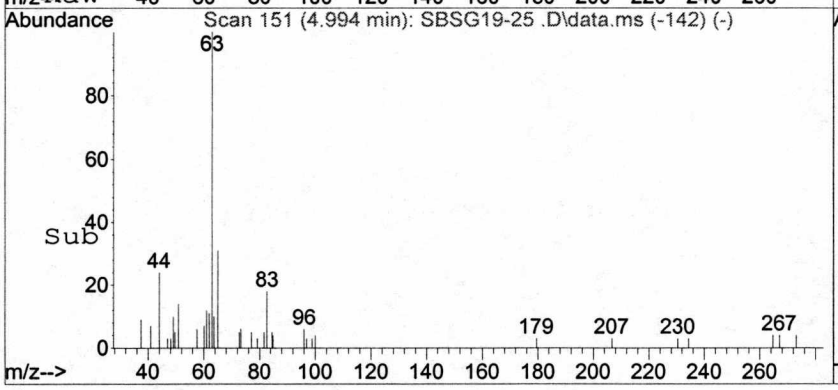


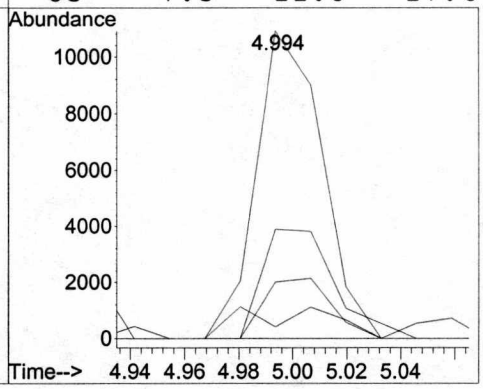


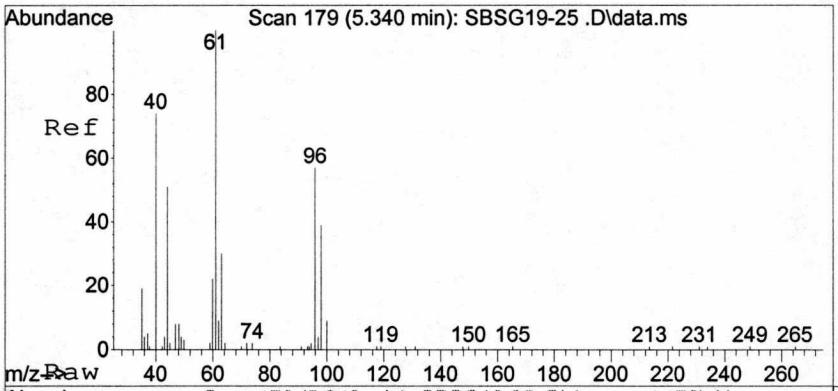
#24
1,1-Dichloroethane
Concen: 30.29 ppbv
RT: 4.994 min Scan# 151
Delta R.T. -0.002 min
Lab File: SBSG19-25 .D
Acq: 26 Mar 2015 9:42

Tgt Ion: 63 Resp: 18615

Ion	Ratio	Lower	Upper
63	100		
65	39.1	19.5	29.3#
83	19.8	11.4	17.2#
85	7.5	11.8	17.6#



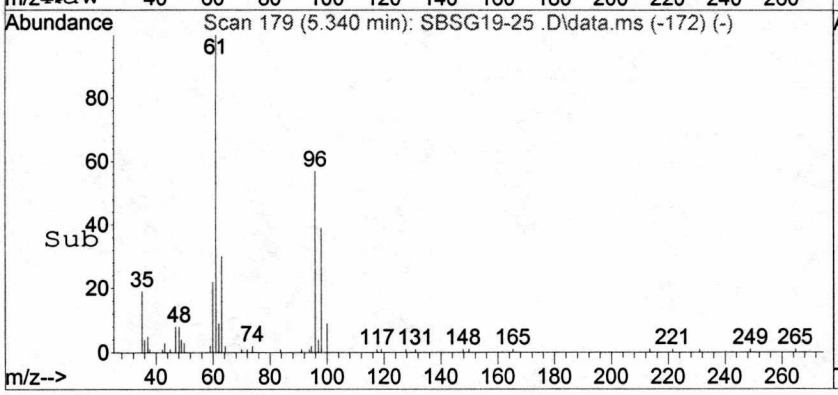


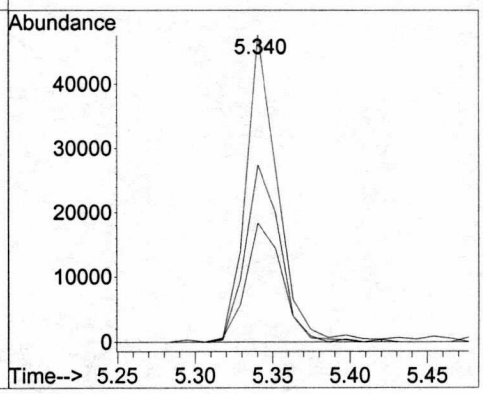


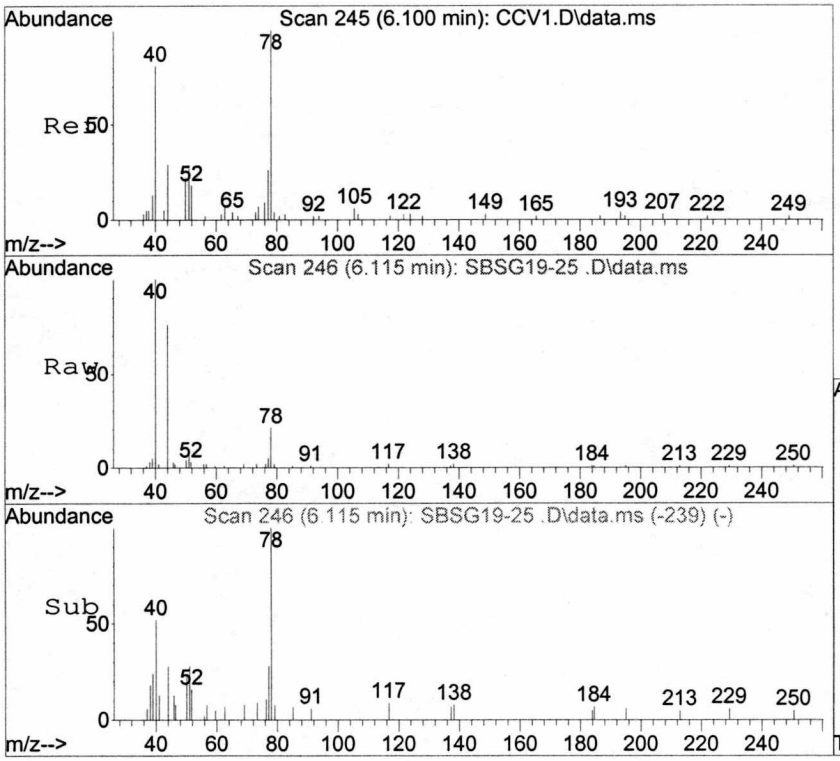
#28
cis-1,2-dichloroethene
Concen: 144.11 ppbv
RT: 5.340 min Scan# 179
Delta R.T. -0.022 min
Lab File: SBSG19-25 .D
Acq: 26 Mar 2015 9:42

Tgt Ion: 61 Resp: 68245

Ion	Ratio	Lower	Upper
61	100		
96	62.1	46.5	69.7
98	44.1	17.4	26.0#



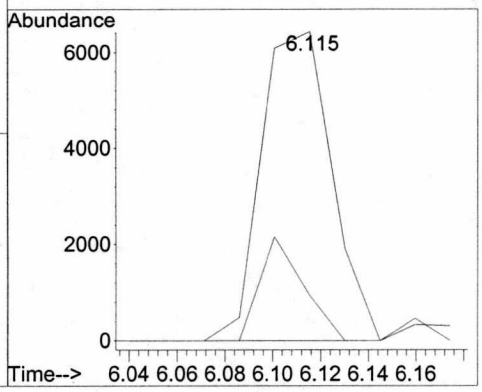


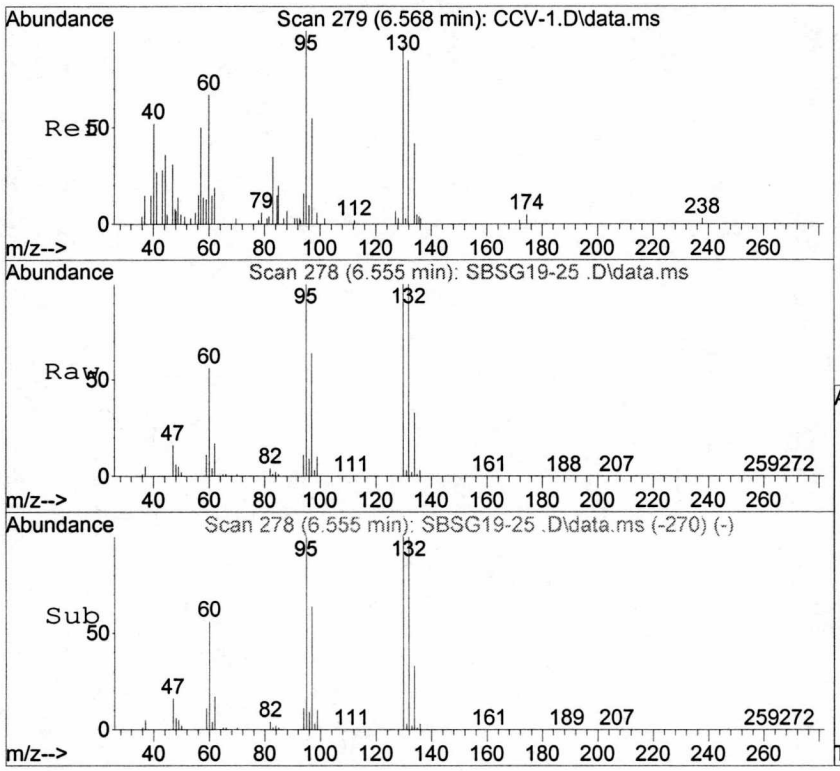


#40
Benzene
Concen: 17.66 ppbv
RT: 6.115 min Scan# 246
Delta R.T. -0.001 min
Lab File: SBSG19-25 .D
Acq: 26 Mar 2015 9:42

Tgt Ion: 78 Resp: 13184

Ion	Ratio	Lower	Upper
78	100		
52	20.8	16.1	24.1

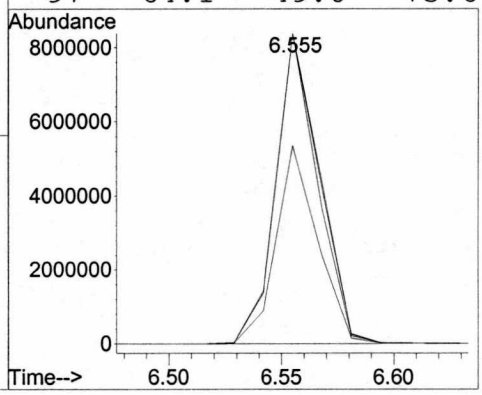


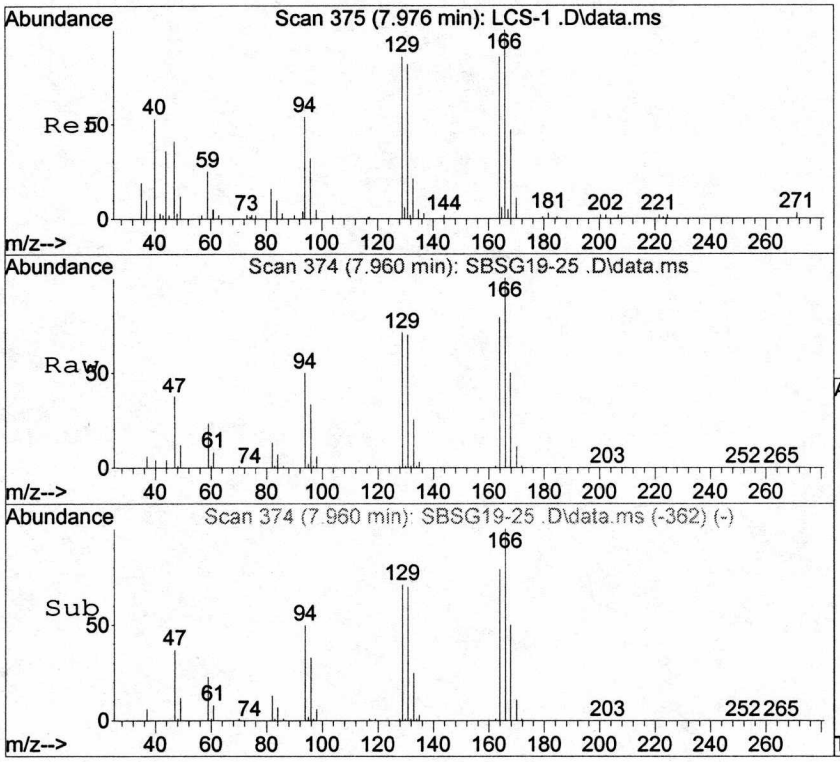


#48
Trichloroethene
Concen: 28414.70 ppbv
RT: 6.555 min Scan# 278
Delta R.T. 0.003 min
Lab File: SBSG19-25 .D
Acq: 26 Mar 2015 9:42

Tgt Ion: 95 Resp:10776135

Ion	Ratio	Lower	Upper
95	100		
130	104.0	84.2	126.2
132	105.0	59.5	89.3#
97	64.1	49.0	73.6

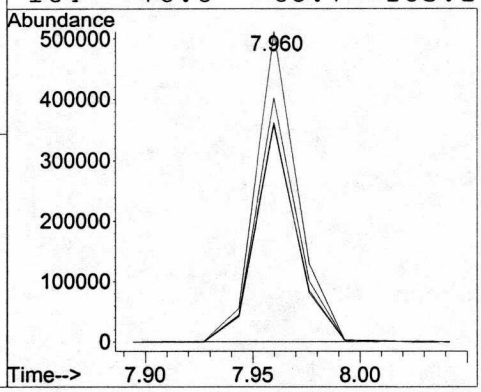




#62
Tetrachloroethene
Concen: 1267.88 ppbv
RT: 7.960 min Scan# 374
Delta R.T. 0.003 min
Lab File: SBSG19-25 .D
Acq: 26 Mar 2015 9:42

Tgt Ion:166 Resp: 688508

Ion	Ratio	Lower	Upper
166	100		
131	70.1	65.7	98.5
129	70.4	68.8	103.2
164	78.8	68.7	103.1



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : SBSG19-25 R.D
Acq On : 26 Mar 2015 10:24
Operator : mm
Sample : E503117-02
Misc : 50
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 26 10:40:05 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration

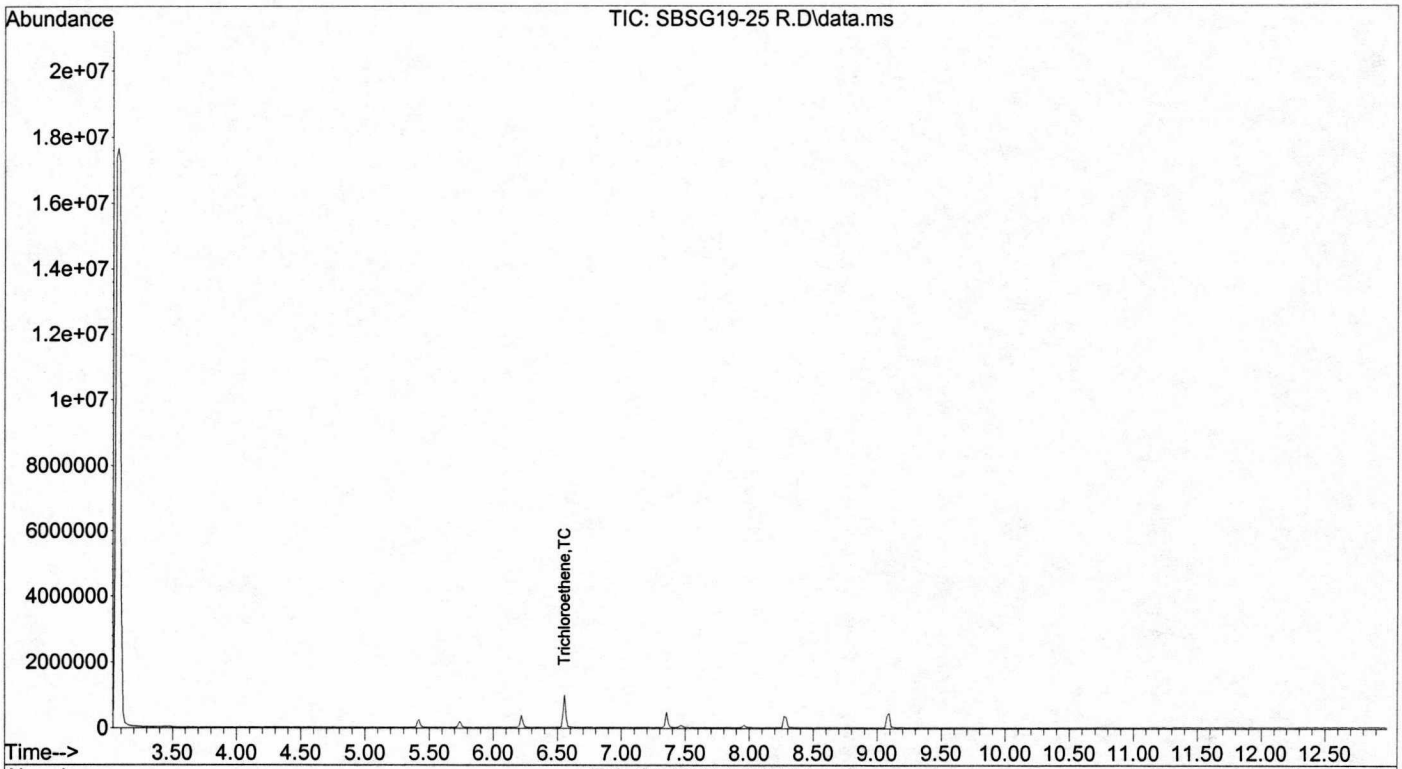
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.420	130	60201	209.00	ppbv	0.00
42) 1,4-Difluorobenzene	6.219	114	178768	209.00	ppbv	0.00
63) Chlorobenzene-d5	8.272	54	62673	209.00	ppbv	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	5.738	65	116217	222.60	ppbv	0.00
Spiked Amount 209.000			Recovery	=	106.51%	
56) Toluene-d8	7.352	98	205137	257.55	ppbv	0.00
Spiked Amount 209.000			Recovery	=	123.23%	
74) 1,4-Bromofluorobenzene	9.093	95	145925	205.54	ppbv	0.00
Spiked Amount 209.000			Recovery	=	98.34%	
Target Compounds						Qvalue
48) Trichloroethene	6.555	95	214400	666.85	ppbv #	87

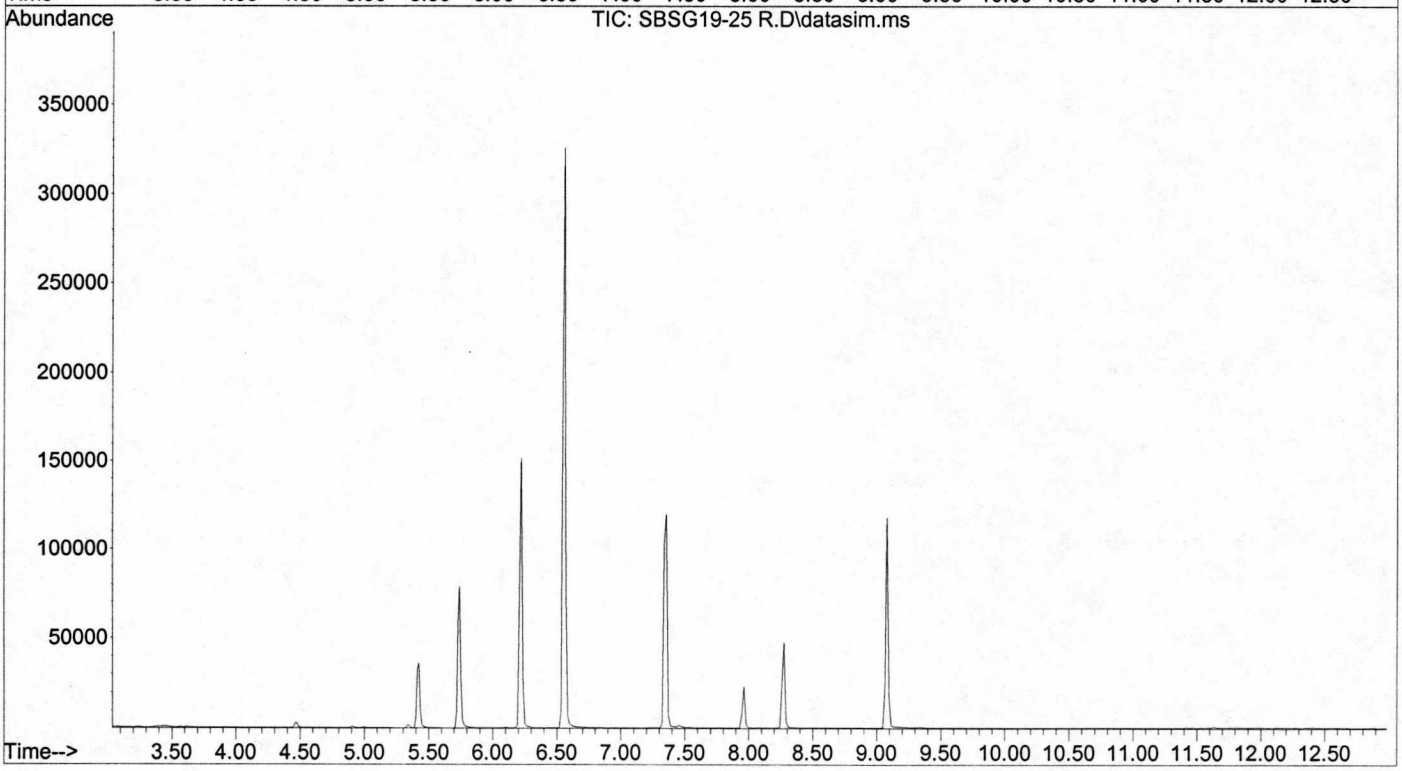
(#) = qualifier out of range (m) = manual integration (+) = signals summed

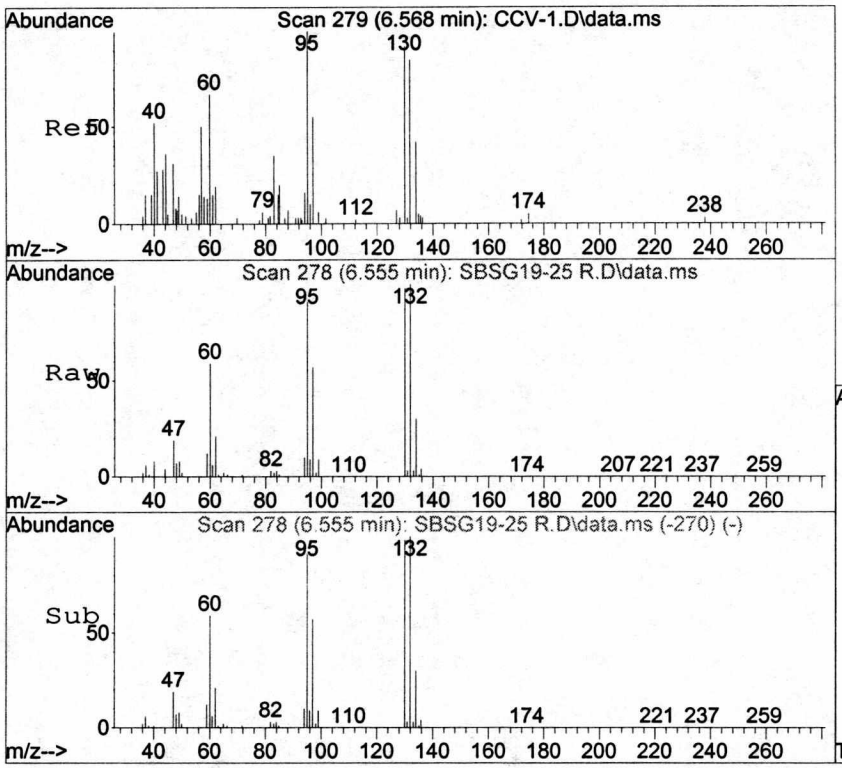
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : SBSG19-25 R.D
Acq On : 26 Mar 2015 10:24
Operator : mm
Sample : E503117-02
Misc : 50
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 26 10:40:05 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration



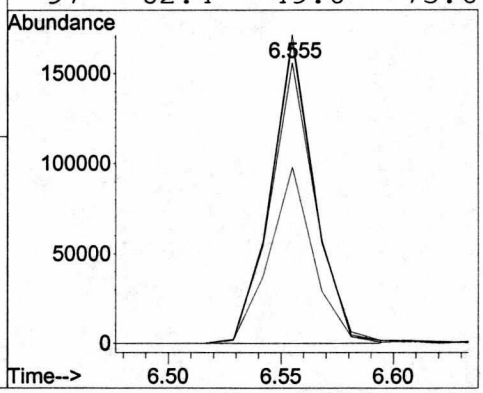




#48
Trichloroethene
Concen: 666.85 ppbv
RT: 6.555 min Scan# 278
Delta R.T. 0.003 min
Lab File: SBSG19-25 R.D
Acq: 26 Mar 2015 10:24

Tgt Ion: 95 Resp: 214400

Ion	Ratio	Lower	Upper
95	100		
130	105.6	84.2	126.2
132	107.3	59.5	89.3#
97	62.4	49.0	73.6



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\032615\
Data File : LCS-2.D
Acq On : 26 Mar 2015 16:40
Operator : mm
Sample : ec52601-bs1
Misc : 1,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 26 17:05:13 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
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 : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	71	-0.01
2	T	1,1,1 Trifluoroethane	0.868	1.378	-58.8#	123	-0.03
3	T	1,1,1,2 Tetrafluoroethane	1.164	1.410	-21.1	85	-0.03
4	T	1,1-Difluoroethane	1.148	1.425	-24.1	97	-0.01
5	T	Propene	0.773	1.064	-37.6#	127	-0.01
6	T	Dichlorodifluoromethane	3.007	3.498	-16.3	104	-0.01
7	T	Chloromethane	1.026	1.095	-6.7	106	-0.03
8	T	Dichlorotetrafluoroethane	2.835	2.582	8.9	78	-0.03
9	T	Vinyl Chloride	0.945	0.813	14.0	65	-0.01
10	T	1,3-Butadiene~39	0.967	0.932	3.6	69	0.00
11	T	1,3-Butadiene~54	0.821	0.861	-4.9	82	0.03
12	T	Bromomethane	0.941	0.968	-2.9	112	-0.03
13	T	Chloroethane	0.455	0.449	1.3	99	-0.03
14	T	Ethanol	0.397	0.059	85.1#	12#	0.14
15	T	Trichlorofluoromethane	3.596	4.331	-20.4	100	-0.01
16	T	Acetone	1.657	1.357	18.1	66	0.05
17	T	Isopropyl alcohol	2.480	1.746	29.6	55	-0.01
18	T	1,1-Dichloroethene	1.740	1.838	-5.6	84	-0.01
19	TC	tert-Butyl Alcohol	2.821	2.967	-5.2	88	-0.03
20	TC	Methylene Chloride	0.654	0.737	-12.7	92	-0.03
21	TC	1,1,2-Trichlorotrifluoroeth	2.085	2.241	-7.5	88	-0.03
22	TC	Carbon Disulfide	2.340	2.077	11.2	77	0.00
23	TC	trans-1,2-Dichloroethene	1.636	1.463	10.6	84	-0.02
24	TC	1,1-Dichloroethane	1.980	1.776	10.3#	74	0.00
25	TC	Methyl tert-Butyl Ether	2.939	2.888	1.7	85	-0.02
26	TC	Vinyl Acetate	3.995	3.872	3.1	96	-0.01
27	TC	2-Butanone	0.342	0.267	21.9	140#	-0.03
28	TC	cis-1,2-dichloroethene	1.526	1.609	-5.4	78	-0.02
29	TC	Di-Isopropyl Ether	4.623	4.393	5.0	83	-0.02
30	TC	Ethyl Acetate	5.744	5.623	2.1	81	-0.01
31	TC	n-Hexane	1.472	1.475	-0.2#	80	-0.02
32	TC	Chloroform	2.276	2.704	-18.8	103	-0.01
33		2,2 Dichloropropane	2.362	2.765	-17.1	96	-0.01
34	TC	Ethyl tert-Butyl Ether	3.734	3.816	-2.2#	88	-0.01
35	TC	Tetrahydrofuran	0.343	0.221	35.6#	68	-0.02
36	S	1,2-Dichloroethane-d4	1.813	2.175	-20.0	86	0.00
37	TC	1,2-Dichloroethane	1.916	2.048	-6.9	81	0.00
38	TC	1,1,1-Trichloroethane	2.872	3.477	-21.1	99	-0.02
39		1,1-Dichloropropene	1.693	1.674	1.1	85	-0.02
40	TC	Benzene	2.405	2.581	-7.3	101	-0.01
41	TC	Carbon Tetrachloride	3.185	3.770	-18.4	85	0.00
42	I	1,4-Difluorobenzene	1.000	1.000	0.0	78	0.00
43	TC	Cyclohexane	0.314	0.235	25.2	56	0.06
44	TC	tert-Amyl Methyl Ether	0.815	0.807	1.0	96	0.00
45		Dibromomethane	0.328	0.313	4.6	84	0.00
46	TC	1,2-Dichloropropane	0.277	0.235	15.2	98	-0.01
47	TC	Bromodichloromethane	0.744	0.808	-8.6#	92	0.00
48	TC	Trichloroethene	0.376	0.337	10.4	63	0.00
49	TC	1,4-Dioxane	0.171	0.165	3.5	105	0.02

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\032615\
Data File : LCS-2.D
Acq On : 26 Mar 2015 16:40
Operator : mm
Sample : ec52601-bs1
Misc : 1,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 26 17:05:13 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
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 : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	TC	2,2,4-Trimethylpentane	1.381	1.154	16.4#	77	-0.01
51	TC	n-Heptane	0.226	0.263	-16.4#	95	-0.01
52	TC	cis-1,3-Dichloropropene	0.487	0.419	14.0	87	0.00
53	TC	4-Methyl-2-Pentanone	0.905	0.902	0.3	99	0.00
54	TC	trans-1,3-Dichloropene	0.523	0.423	19.1	78	0.01
55	TC	1,1,2-Trichloroethane	0.316	0.369	-16.8	105	0.00
56	S	Toluene-d8	0.931	0.966	-3.8	77	0.00
57		1,3 Dichloropropane	0.433	0.387	10.6	70	0.00
58	TC	Toluene	1.001	0.885	11.6#	79	0.00
59	TC	2-Hexanone	0.794	0.709	10.7#	88	0.00
60	TC	Dibromochloromethane	0.804	0.900	-11.9#	100	0.00
61	TC	1,2-Dibromoethane	0.545	0.512	6.1	84	-0.01
62	TC	Tetrachloroethene	0.538	0.633	-17.7	130	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	70	0.00
64	TC	1,1,1,2 Tetrachloroethane	1.687	1.913	-13.4	89	0.00
65	TC	Chlorobenzene	2.561	2.669	-4.2	86	0.00
66	TC	Ethylbenzene	4.562	3.841	15.8	69	0.00
67	TC	m,p-xylene	3.535	3.204	9.4	88	0.00
68	TC	Bromoform	2.706	2.503	7.5#	86	0.02
69	TC	Styrene	2.595	2.441	5.9	87	0.00
70	TC	1,1,2,2-Tetrachloroethane	2.007	2.176	-8.4	113	0.00
71	TC	o-xylene	3.634	2.970	18.3	70	0.00
72		1,2,3-Trichloropropane	1.826	2.157	-18.1	110	0.00
73		Isopropylbenzene	4.912	4.713	4.1	81	0.00
74	S	1,4-Bromofluorobenzene	2.368	2.137	9.8	66	0.00
75		Bromobenzene	1.852	1.490	19.5	71	-0.02
76		2-Chlorotoluene	1.313	1.192	9.2	75	0.00
77		n-Propylbenzene	12.058	12.631	-4.8	115	0.00
78		4-Chlorotoluene	1.010	1.027	-1.7	88	0.00
79	TC	4-Ethyltoluene	4.729	3.819	19.2#	81	0.03
80	TC	1,3,5-Trimethylbenzene	4.107	4.395	-7.0	99	0.02
81	TC	1,2,4-Trimethylbenzene	3.980	4.572	-14.9	107	0.02
82		tert-Butylbenzene	4.530	4.306	4.9	94	0.00
83	TC	Benzyl Chloride	3.844	3.810	0.9	108	0.00
84	TC	1,3-Dichlorobenzene	3.392	4.044	-19.2#	112	0.00
85	TC	1,4-Dichlorobenzene	2.633	2.214	15.9	99	0.02
86		sec-Butylbenzene	5.526	5.616	-1.6	92	0.00
87	TC	p-Isopropyltoluene	5.075	5.032	0.8	99	0.00
88	TC	1,2-Dichlorobenzene	2.667	3.228	-21.0	120	0.00
89		n-Butylbenzene	3.839	3.838	0.0	79	0.00
90		1,2 Dibromo-3-chloropropane	1.523	1.789	-17.5	102	0.00
91	TC	1,2,4-Trichlorobenzene	2.044	2.534	-24.0#	128	0.00
92	TC	Naphthalene	4.086	5.698	-39.5#	158#	0.00
93		1,2,3-Trichlorobenzene	1.714	2.970	-73.3#	169#	0.00
94	TC	Hexachlorobutadiene	1.655	2.375	-43.5#	160#	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 16

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : LCS-2.D
Acq On : 26 Mar 2015 16:40
Operator : mm
Sample : ec52601-bs1
Misc : 1,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 26 17:05:13 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.408	130	47645	209.00	ppbv	-0.01
42) 1,4-Difluorobenzene	6.218	114	184751	209.00	ppbv	0.00
63) Chlorobenzene-d5	8.272	54	52589	209.00	ppbv	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	5.738	65	103635	250.81	ppbv	0.00
Spiked Amount 209.000			Recovery	=	120.00%	
56) Toluene-d8	7.352	98	178477	216.82	ppbv	0.00
Spiked Amount 209.000			Recovery	=	103.74%	
74) 1,4-Bromofluorobenzene	9.093	95	112387	188.66	ppbv	0.00
Spiked Amount 209.000			Recovery	=	90.27%	

Target Compounds						Qvalue
2) 1,1,1 Trifluoroethane	3.115	65	15709	79.36	ppbv	84
3) 1,1,1,2 Tetrafluoroethane	3.141	83	16073	60.58	ppbv #	1
4) 1,1-Difluoroethane	3.194	51	16239	62.03	ppbv #	76
5) Propene	3.246	41	12127	68.81	ppbv #	81
6) Dichlorodifluoromethane	3.285	85	39868	58.16	ppbv #	87
7) Chloromethane	3.389	50	12477	53.34	ppbv #	59
8) Dichlorotetrafluoroethane	3.441	85	29429	45.53	ppbv	95
9) Vinyl Chloride	3.520	62	9269	43.04	ppbv #	78
10) 1,3-Butadiene~39	3.598	39	10628	48.22	ppbv #	50
11) 1,3-Butadiene~54	3.598	54	9812	52.45	ppbv #	58
12) Bromomethane	3.741	94	11034	51.45	ppbv #	87
13) Chloroethane	3.819	64	5115	49.31	ppbv #	89
14) Ethanol	4.080	45	671	7.41	ppbv #	100
15) Trichlorofluoromethane	4.185	101	49368	60.22	ppbv #	92
16) Acetone	4.237	43	15464	40.94	ppbv #	100
17) Isopropyl alcohol	4.237	45	19907	35.22	ppbv	90
18) 1,1-Dichloroethene	4.471	61	20950	52.83	ppbv #	77
19) tert-Butyl Alcohol	4.485	59	33822	52.59	ppbv #	83
20) Methylene Chloride	4.498	84	8398	56.34	ppbv #	68
21) 1,1,2-Trichlorotrifluo...	4.615	101	25546	53.74	ppbv #	85
22) Carbon Disulfide	4.680	76	23679	44.40	ppbv	99
23) trans-1,2-Dichloroethene	4.902	61	16675	44.72	ppbv #	75
24) 1,1-Dichloroethane	4.993	63	20240	44.84	ppbv #	92
25) Methyl tert-Butyl Ether	5.019	73	32921	49.14	ppbv	93
26) Vinyl Acetate	5.032	43	44133	48.46	ppbv	99
27) 2-Butanone	5.176	72	3038	38.96	ppbv #	1
28) cis-1,2-dichloroethene	5.340	61	18340	52.72	ppbv #	88
29) Di-Isopropyl Ether	5.397	45	50076	47.52	ppbv #	35
30) Ethyl Acetate	5.420	43	64092	48.95	ppbv #	88
31) n-Hexane	5.420	57	16813	50.12	ppbv	88
32) Chloroform	5.454	83	30817	59.39	ppbv #	87
33) 2,2 Dichloropropane	5.488	77	31516	58.54	ppbv #	89
34) Ethyl tert-Butyl Ether	5.636	59	43496	51.10	ppbv #	88
35) Tetrahydrofuran	5.670	71	2515	32.18	ppbv #	67
37) 1,2-Dichloroethane	5.783	62	23348	53.44	ppbv #	87
38) 1,1,1-Trichloroethane	5.897	97	39636	60.53	ppbv #	92
39) 1,1-Dichloropropene	6.022	75	19077	49.42	ppbv	94
40) Benzene	6.100	78	29415	53.65	ppbv #	75
41) Carbon Tetrachloride	6.174	117	42969	59.18	ppbv #	94
43) Cyclohexane	6.233	84	10368	37.36	ppbv #	44
44) tert-Amyl Methyl Ether	6.333	73	35650	49.46	ppbv #	92

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : LCS-2.D
Acq On : 26 Mar 2015 16:40
Operator : mm
Sample : ec52601-bs1
Misc : 1,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 26 17:05:13 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration

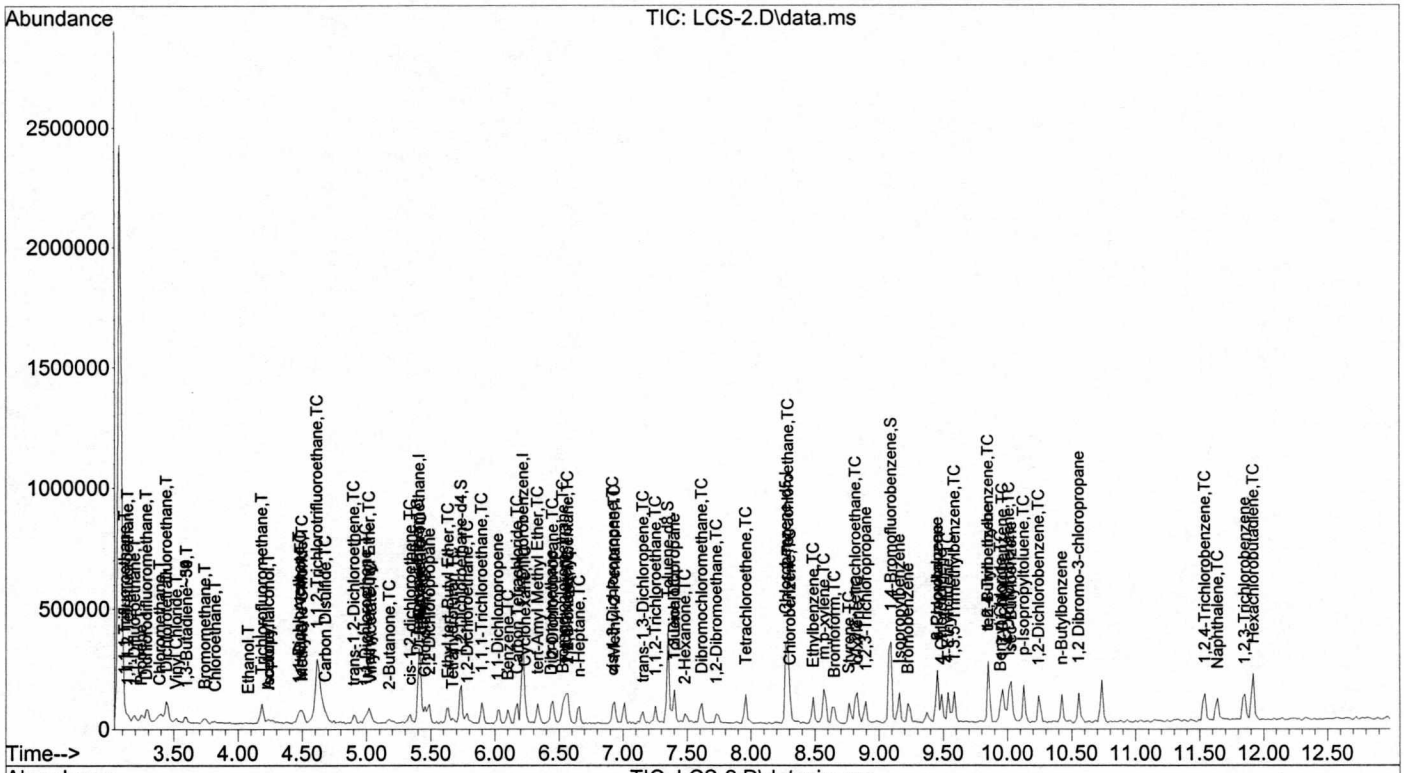
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
45) Dibromomethane	6.437	93	13839	47.79 ppbv #	62
46) 1,2-Dichloropropane	6.450	63	10365	42.32 ppbv #	37
47) Bromodichloromethane	6.528	83	35692	54.29 ppbv	86
48) Trichloroethene	6.555	95	14904	44.85 ppbv #	76
49) 1,4-Dioxane	6.568	58	7271	48.14 ppbv #	82
50) 2,2,4-Trimethylpentane	6.568	57	50991	41.77 ppbv	100
51) n-Heptane	6.659	71	11605	58.00 ppbv	99
52) cis-1,3-Dichloropropene	6.920	75	18517	43.04 ppbv #	89
53) 4-Methyl-2-Pentanone	6.933	43	39878	49.86 ppbv #	90
54) trans-1,3-Dichloropene	7.155	75	18692	40.46 ppbv #	74
55) 1,1,2-Trichloroethane	7.253	97	16314	58.36 ppbv #	85
57) 1,3 Dichloropropane	7.401	76	17125	44.77 ppbv	93
58) Toluene	7.401	91	39106	44.20 ppbv	95
59) 2-Hexanone	7.483	43	31348	44.64 ppbv #	85
60) Dibromochloromethane	7.615	129	39774	55.95 ppbv #	85
61) 1,2-Dibromoethane	7.730	107	22624	46.98 ppbv #	69
62) Tetrachloroethene	7.959	166	27969	58.79 ppbv #	79
64) 1,1,1,2 Tetrachloroethane	8.288	131	24073	56.70 ppbv	96
65) Chlorobenzene	8.304	112	33579	52.12 ppbv	92
66) Ethylbenzene	8.485	91	48318	42.09 ppbv #	88
67) m,p-xylene	8.567	91	80631	90.66 ppbv	92
68) Bromoform	8.649	173	31488	46.25 ppbv	88
69) Styrene	8.764	104	30705	47.03 ppbv	93
70) 1,1,2,2-Tetrachloroethane	8.814	83	27380	54.23 ppbv #	74
71) o-xylene	8.830	91	37372	40.87 ppbv #	70
72) 1,2,3-Trichloropropane	8.896	75	27137	59.06 ppbv #	75
73) Isopropylbenzene	9.159	105	59297	47.97 ppbv	92
75) Bromobenzene	9.224	156	18741	40.22 ppbv #	44
76) 2-Chlorotoluene	9.454	126	14993	45.38 ppbv	98
77) n-Propylbenzene	9.454	91	158915	52.38 ppbv #	90
78) 4-Chlorotoluene	9.487	126	12926	50.87 ppbv #	1
79) 4-Ethyltoluene	9.536	105	48050	40.38 ppbv	100
80) 1,3,5-Trimethylbenzene	9.586	105	55299	53.51 ppbv	99
81) 1,2,4-Trimethylbenzene	9.848	105	57524	57.43 ppbv	99
82) tert-Butylbenzene	9.848	119	54174	47.53 ppbv	100
83) Benzyl Chloride	9.947	91	47939	49.57 ppbv	98
84) 1,3-Dichlorobenzene	9.963	146	50873	59.60 ppbv #	87
85) 1,4-Dichlorobenzene	10.013	146	27849	42.04 ppbv #	86
86) sec-Butylbenzene	10.029	105	70657	50.81 ppbv	90
87) p-Isopropyltoluene	10.128	119	63309	49.57 ppbv #	87
88) 1,2-Dichlorobenzene	10.243	146	40613	60.51 ppbv #	91
89) n-Butylbenzene	10.423	91	48288	49.99 ppbv	97
90) 1,2 Dibromo-3-chloropr...	10.555	75	22509	58.75 ppbv #	86
91) 1,2,4-Trichlorobenzene	11.540	180	31880	61.99 ppbv	86
92) Naphthalene	11.639	128	71690	69.73 ppbv #	90
93) 1,2,3-Trichlorobenzene	11.852	180	37372	86.68 ppbv	91
94) Hexachlorobutadiene	11.918	225	29885	71.78 ppbv #	86

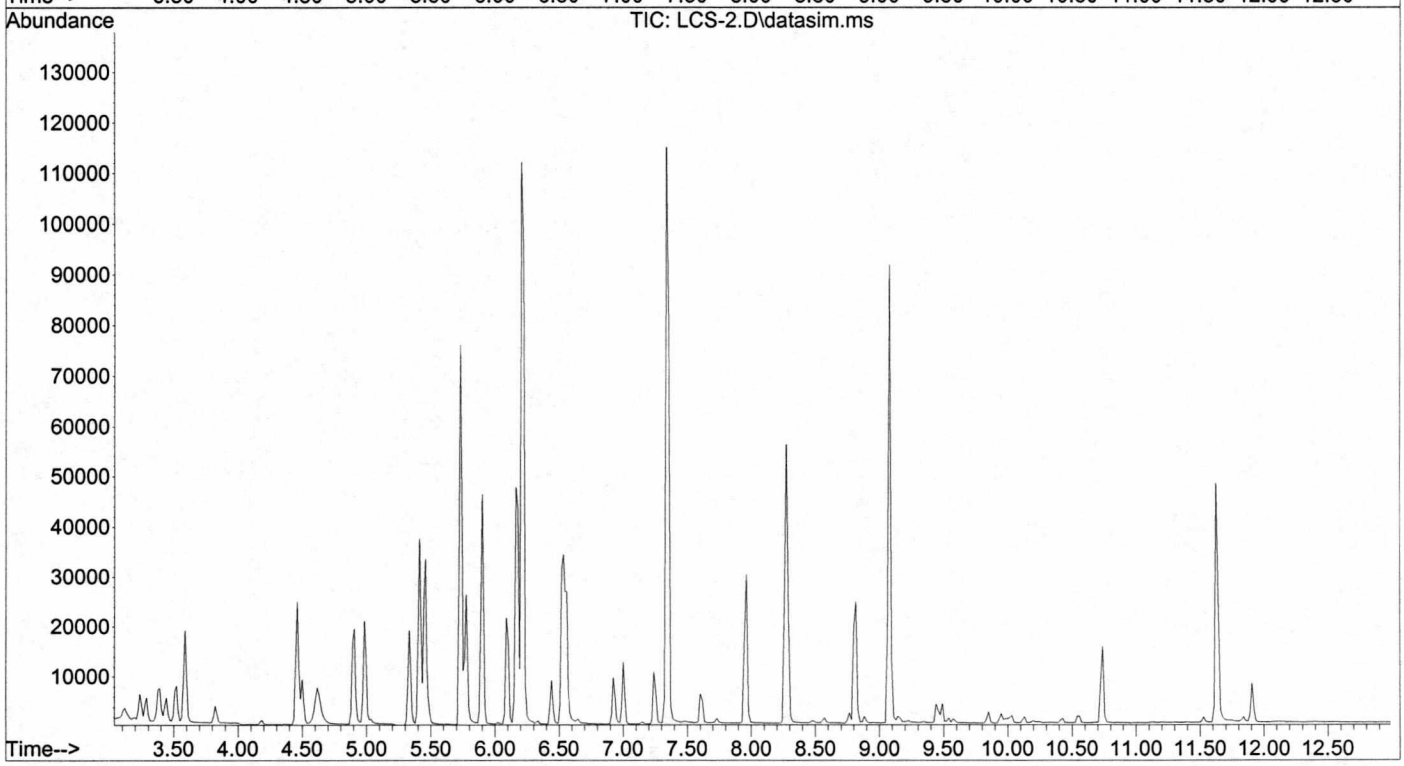
(#) = qualifier out of range (m) = manual integration (+) = signals summed

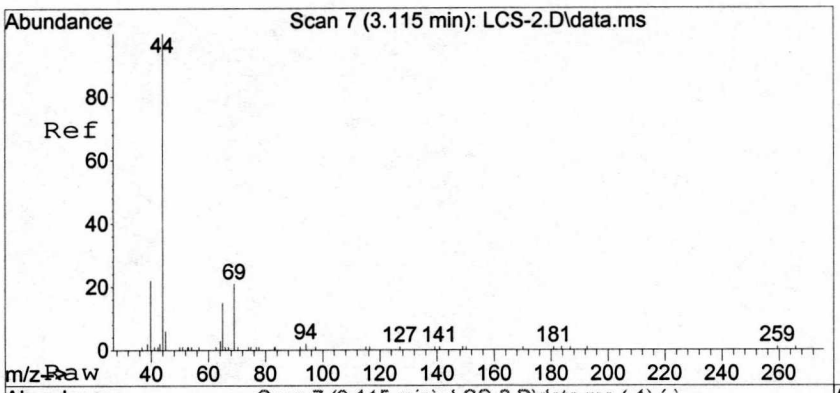
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\032615\
Data File : LCS-2.D
Acq On : 26 Mar 2015 16:40
Operator : mm
Sample : ec52601-bs1
Misc : 1,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 26 17:05:13 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Wed Mar 25 17:33:59 2015
Response via : Initial Calibration



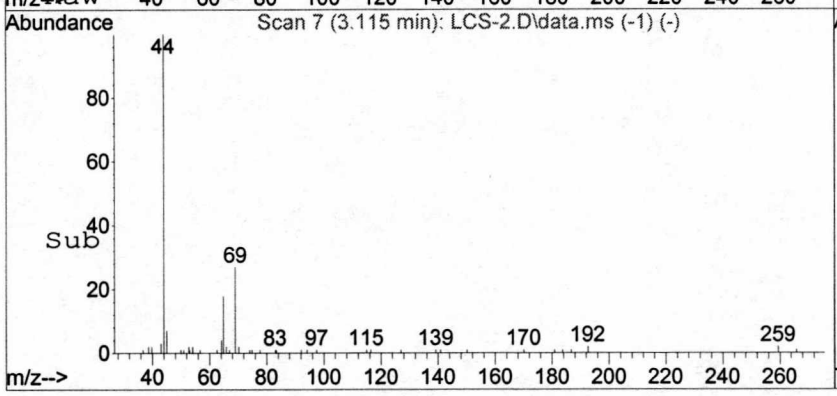


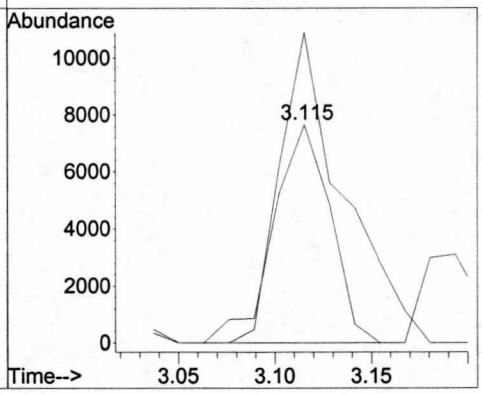


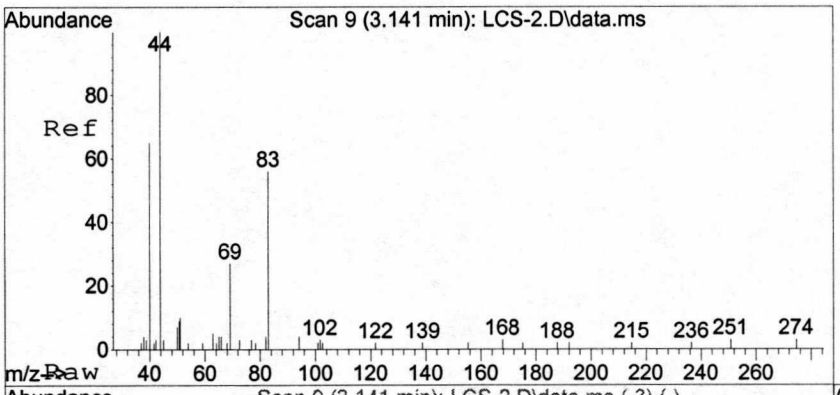
#2
1,1,1 Trifluoroethane
Concen: 79.36 ppbv
RT: 3.115 min Scan# 7
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 65 Resp: 15709

Ion	Ratio	Lower	Upper
65	100		
69	158.7	111.8	167.6



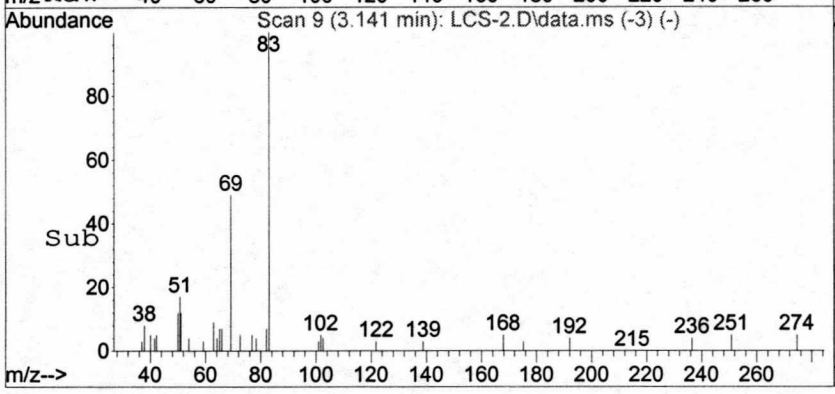


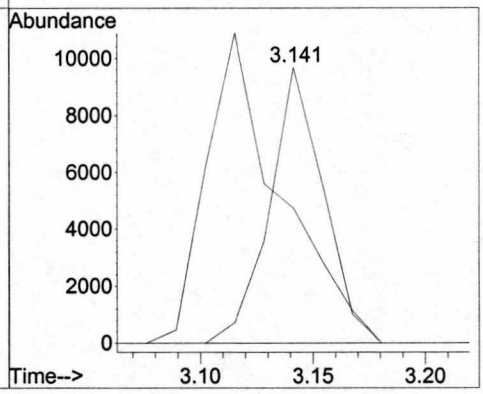


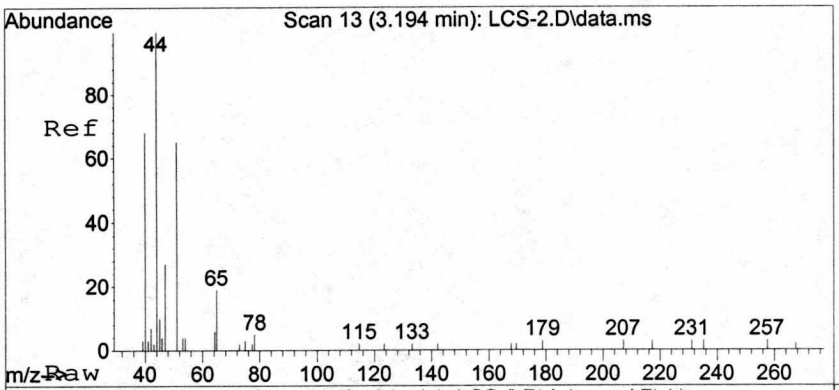
#3
1,1,1,2 Tetrafluoroethane
Concen: 60.58 ppbv
RT: 3.141 min Scan# 9
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 83 Resp: 16073

Ion	Ratio	Lower	Upper
83	100		
69	152.8	46.4	69.6#



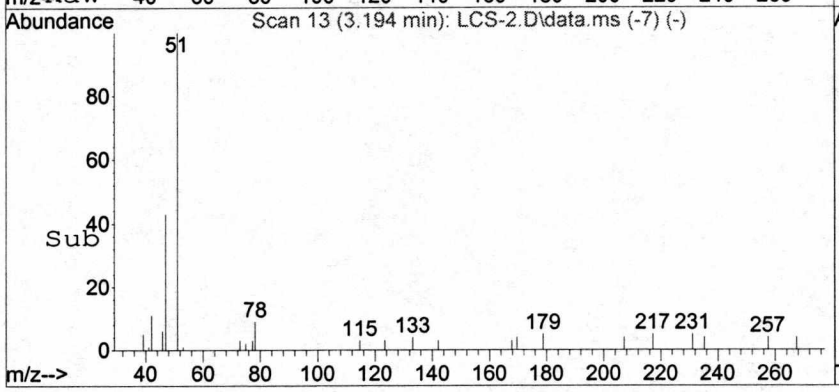


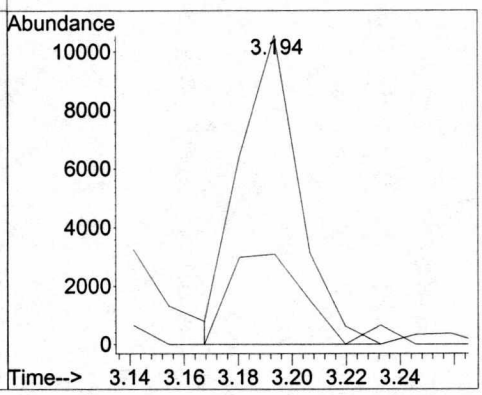


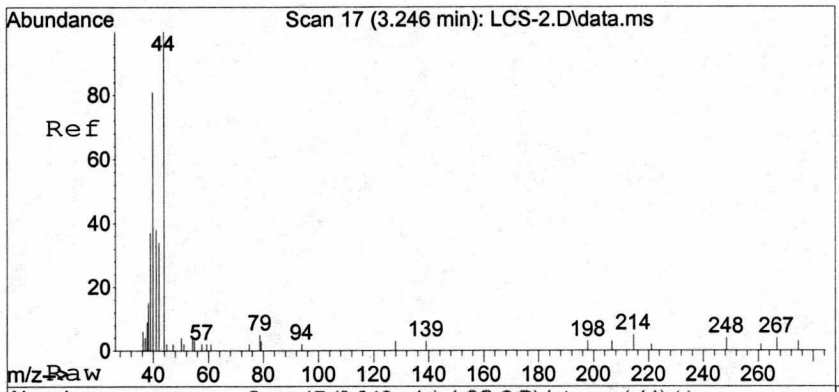
#4
1,1-Difluoroethane
Concen: 62.03 ppbv
RT: 3.194 min Scan# 13
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 51 Resp: 16239

Ion	Ratio	Lower	Upper
51	100		
65	36.6	19.8	29.6#



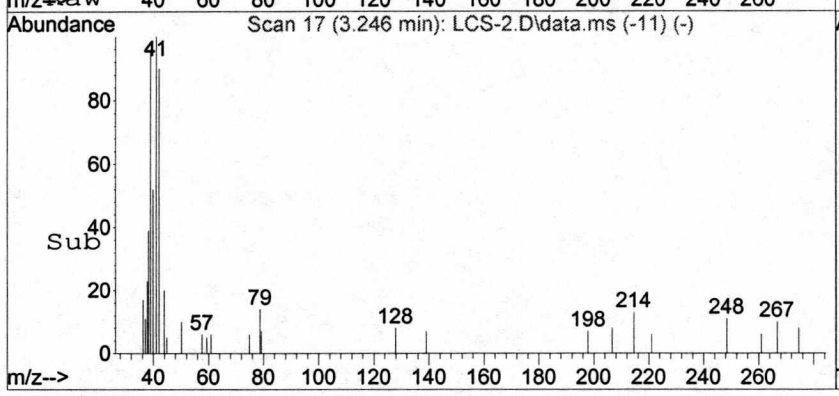


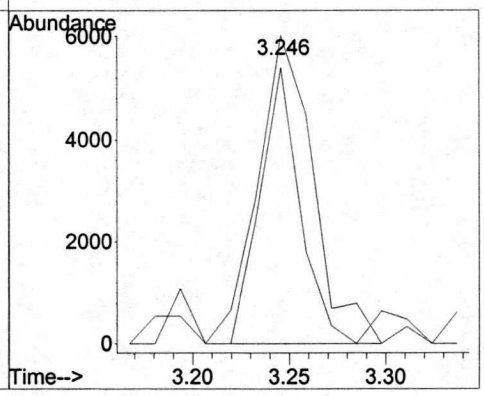


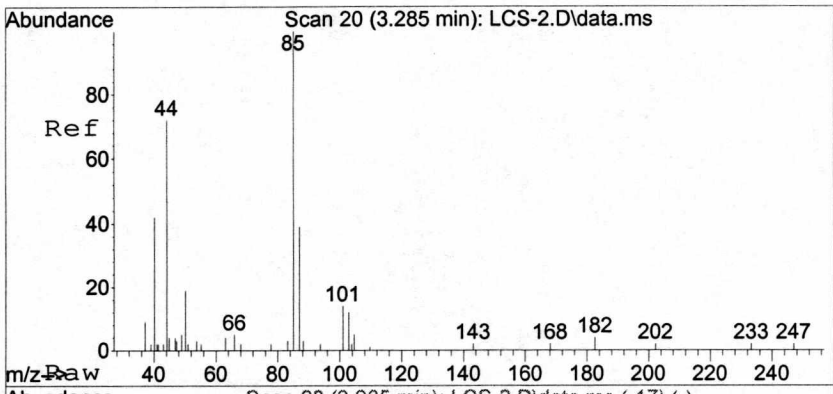
#5
Propene
Concen: 68.81 ppbv
RT: 3.246 min Scan# 17
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 41 Resp: 12127

Ion	Ratio	Lower	Upper
41	100		
42	64.3	65.0	97.4#



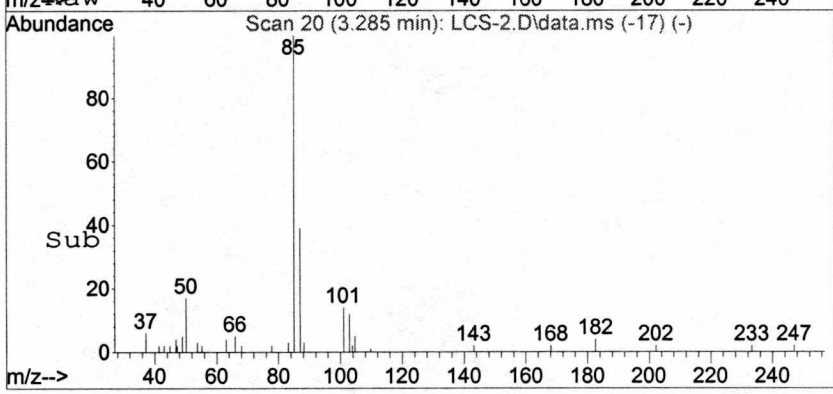


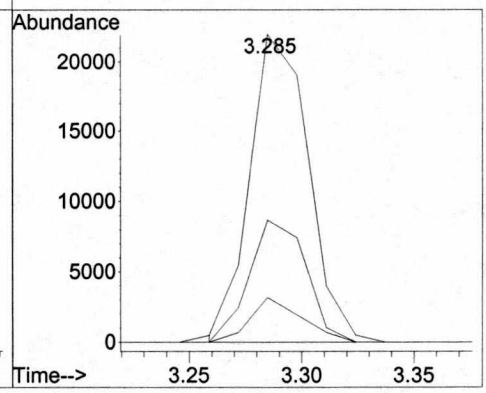


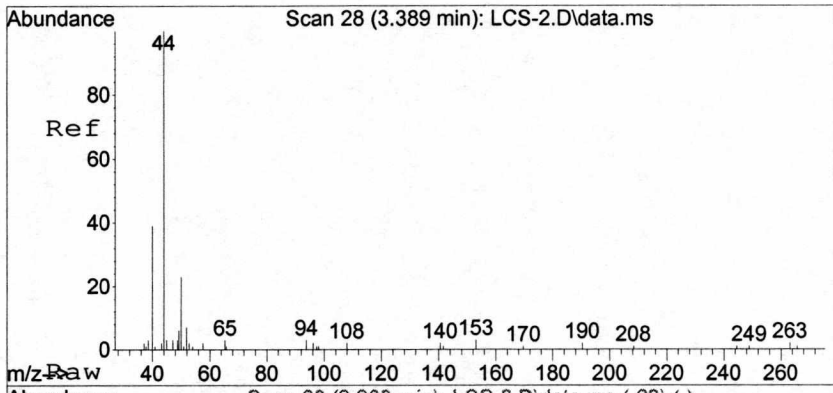
#6
Dichlorodifluoromethane
Concen: 58.16 ppbv
RT: 3.285 min Scan# 20
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 85 Resp: 39868

Ion	Ratio	Lower	Upper
85	100		
87	38.4	23.4	35.0#
101	12.7	11.2	16.8



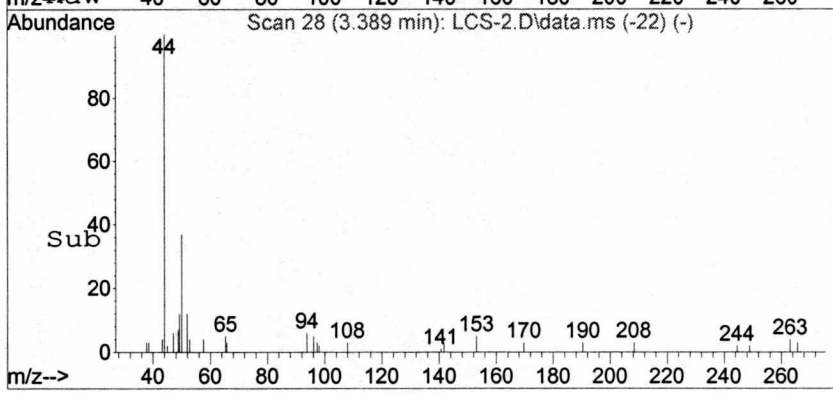


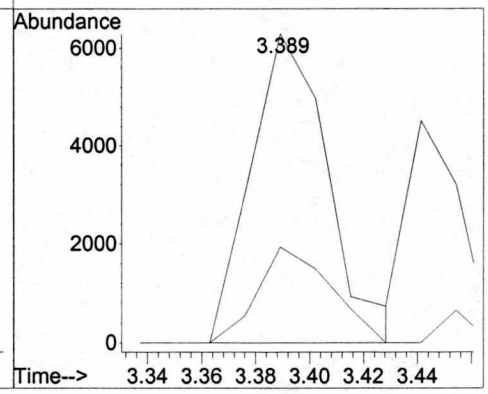


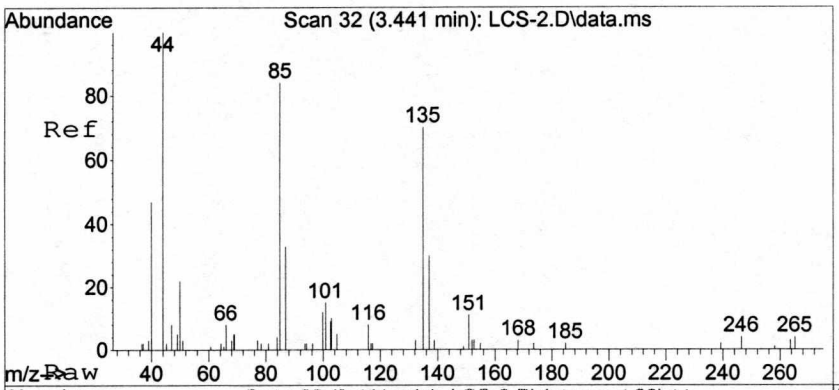
#7
Chloromethane
Concen: 53.34 ppbv
RT: 3.389 min Scan# 28
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 50 Resp: 12477

Ion	Ratio	Lower	Upper
50	100		
52	29.2	10.2	15.4#



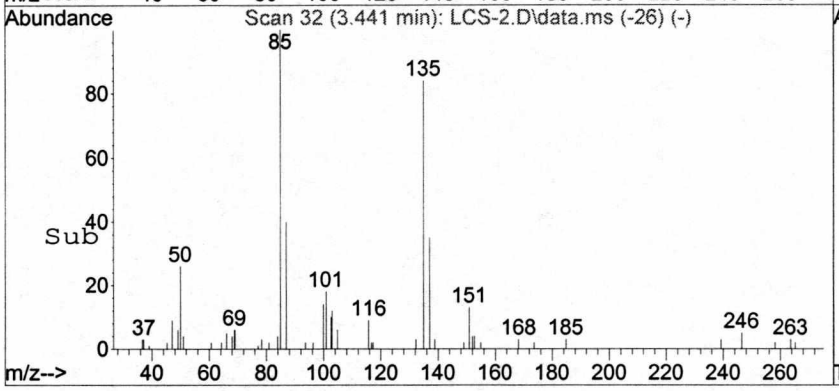


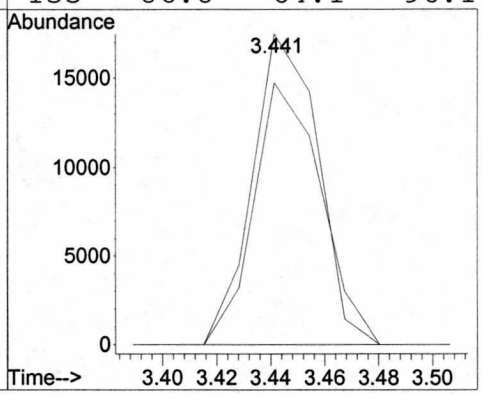


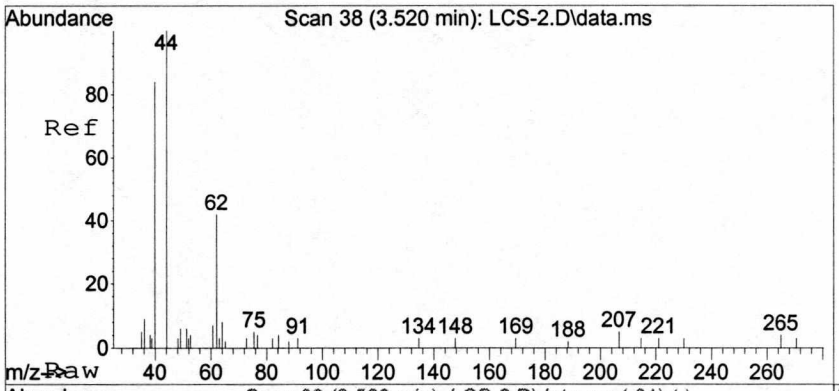
#8
Dichlorotetrafluoroethane
Concen: 45.53 ppbv
RT: 3.441 min Scan# 32
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 85 Resp: 29429

Ion	Ratio	Lower	Upper
85	100		
135	86.8	64.1	96.1
85	100.0	80.0	120.0
135	86.8	64.1	96.1



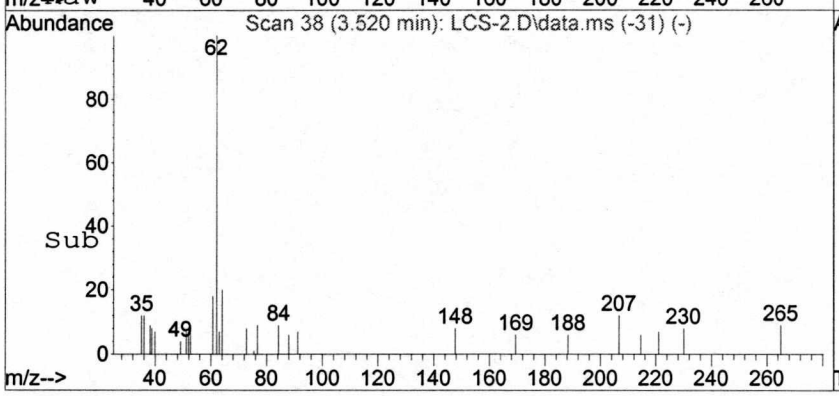


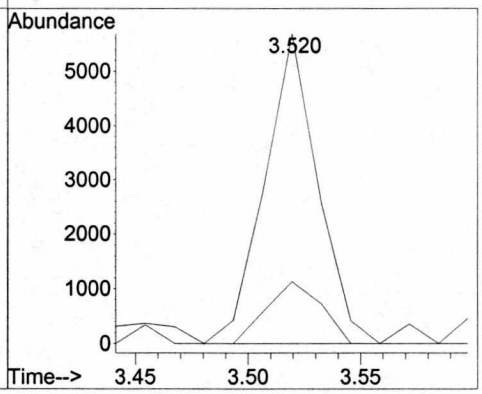


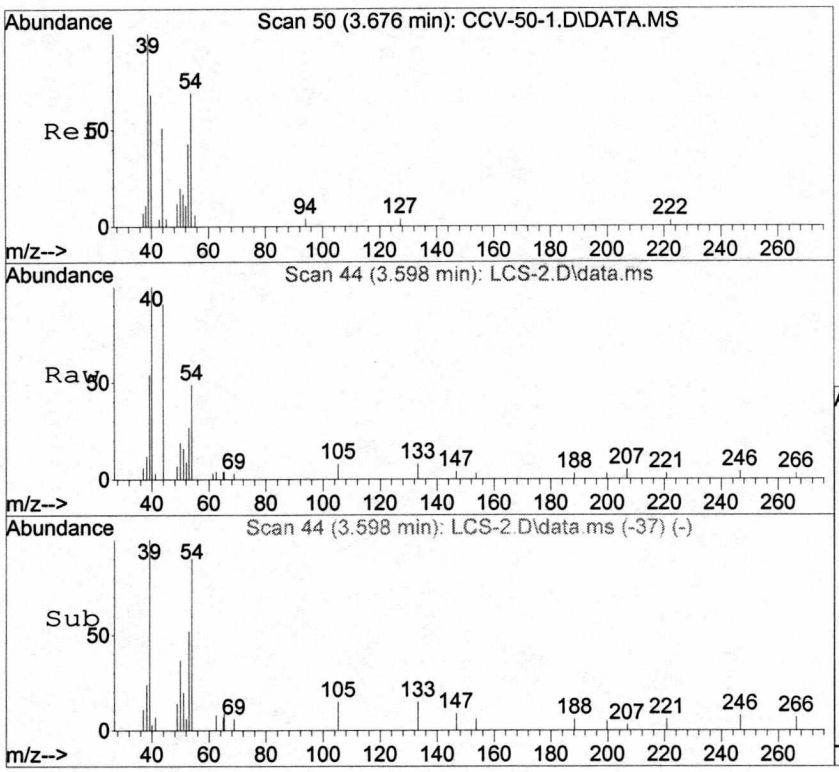
#9
Vinyl Chloride
Concen: 43.04 ppbv
RT: 3.520 min Scan# 38
Delta R.T. -0.013 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 62 Resp: 9269

Ion	Ratio	Lower	Upper
62	100		
64	20.5	26.6	39.8#



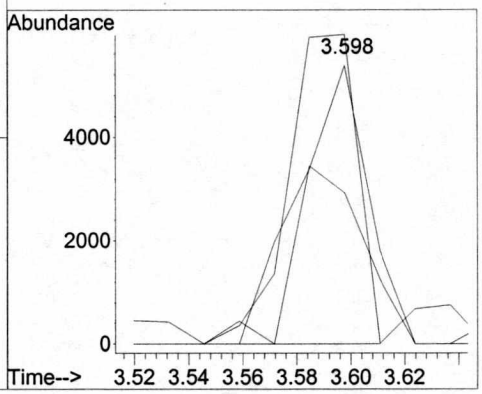


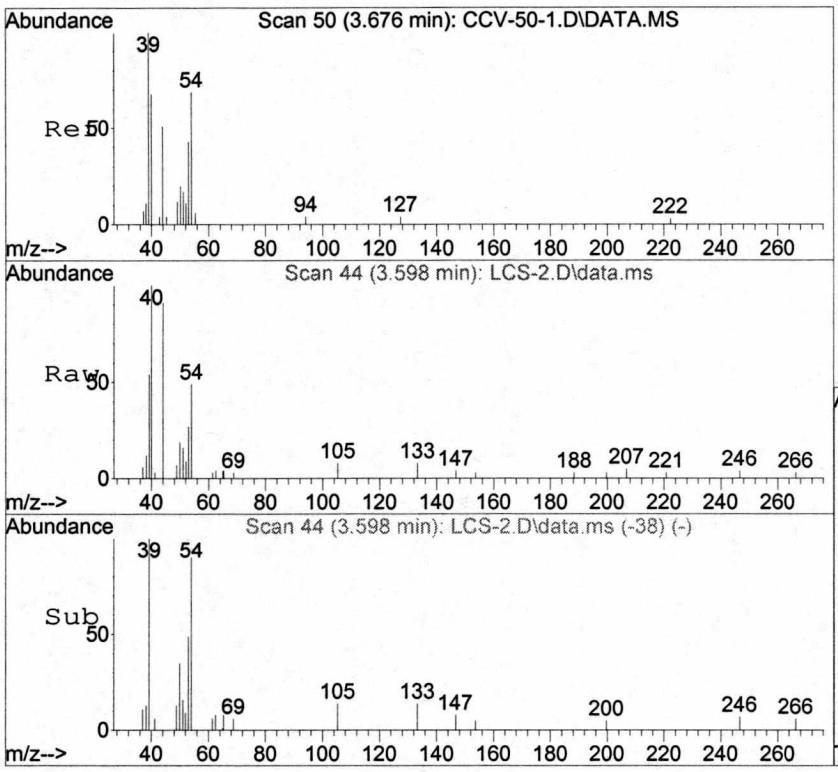


#10
1,3-Butadiene~39
Concen: 48.22 ppbv
RT: 3.598 min Scan# 44
Delta R.T. -0.013 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 39 Resp: 10628

Ion	Ratio	Lower	Upper
39	100		
54	92.3	42.2	63.4#
53	56.1	26.4	39.6#

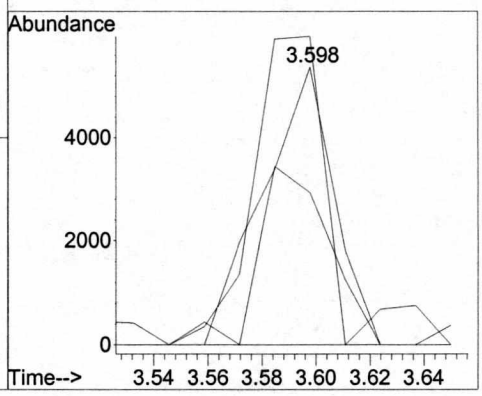


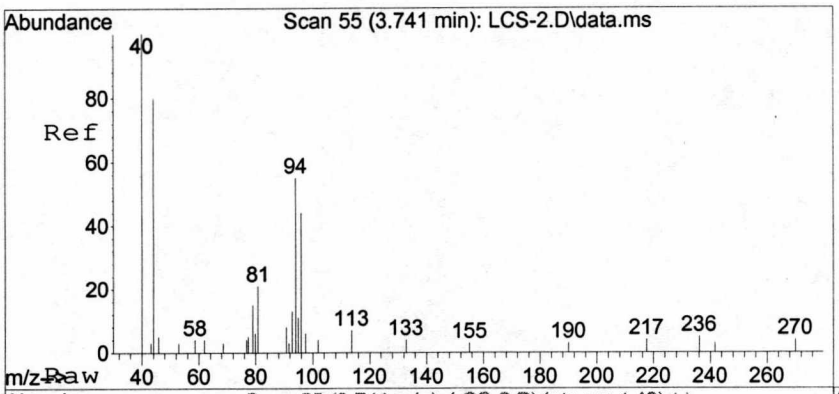


#11
1,3-Butadiene~54
Concen: 52.45 ppbv
RT: 3.598 min Scan# 44
Delta R.T. -0.013 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 54 Resp: 9812

Ion	Ratio	Lower	Upper
54	100		
39	108.3	151.6	227.4#
53	60.7	50.0	75.0

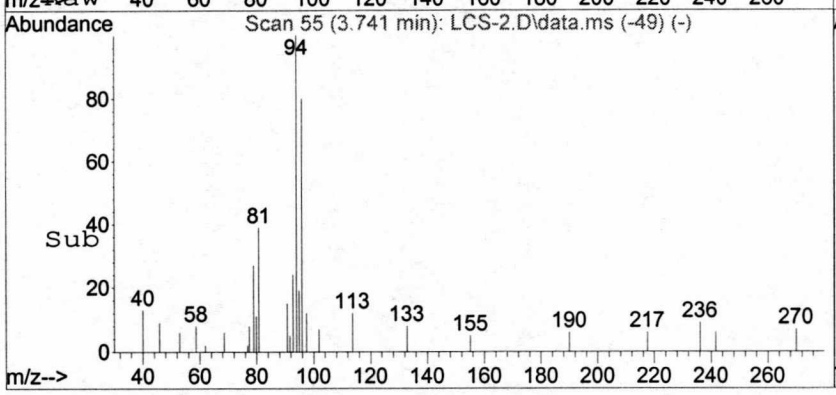


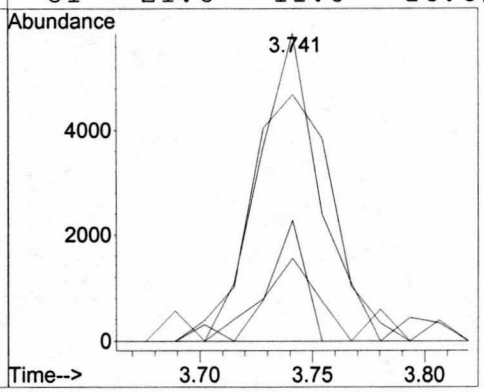


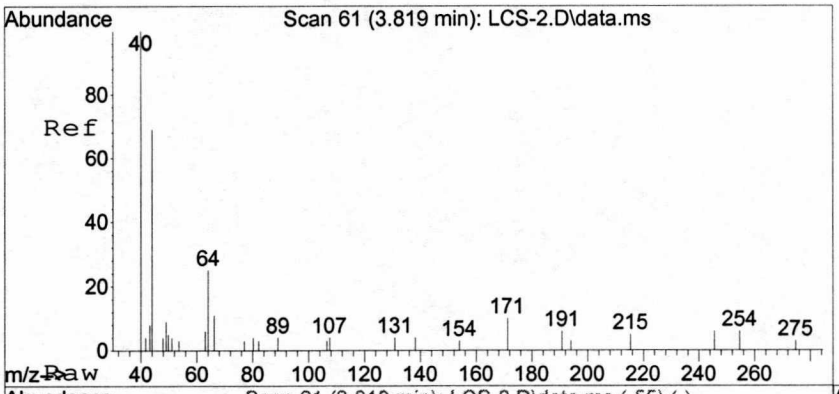
#12
Bromomethane
Concen: 51.45 ppbv
RT: 3.741 min Scan# 55
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 94 Resp: 11034

Ion	Ratio	Lower	Upper
94	100		
96	108.6	78.8	118.2
79	24.8	12.5	18.7#
81	21.6	11.0	16.6#



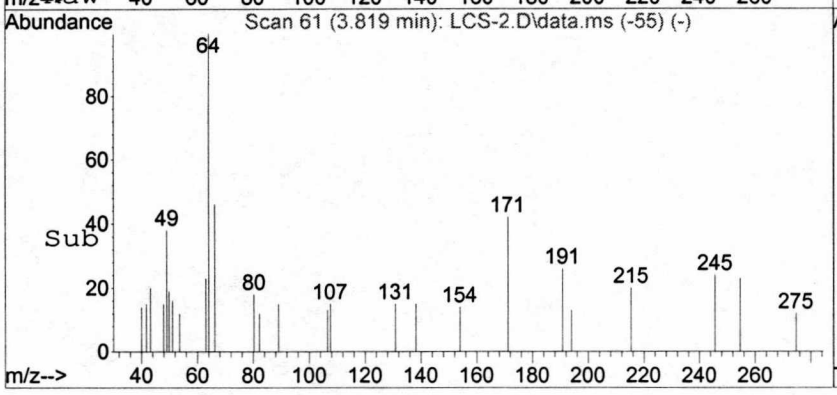


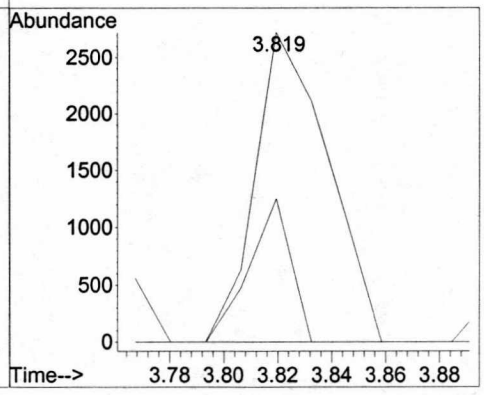


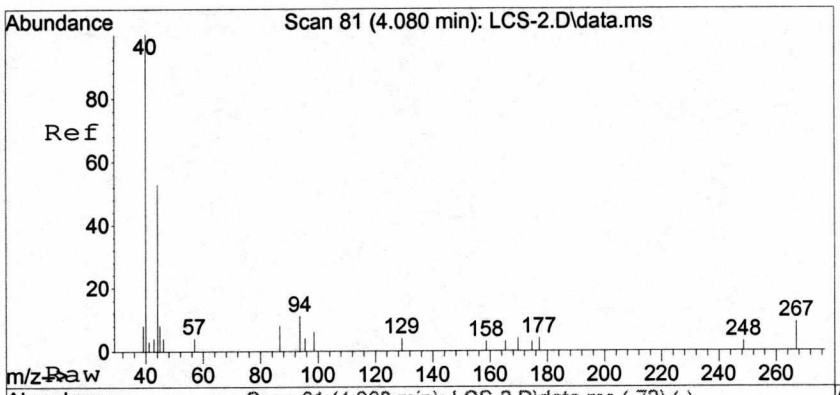
#13
Chloroethane
Concen: 49.31 ppbv
RT: 3.819 min Scan# 61
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 64 Resp: 5115

Ion	Ratio	Lower	Upper
64	100		
66	26.4	17.1	25.7#



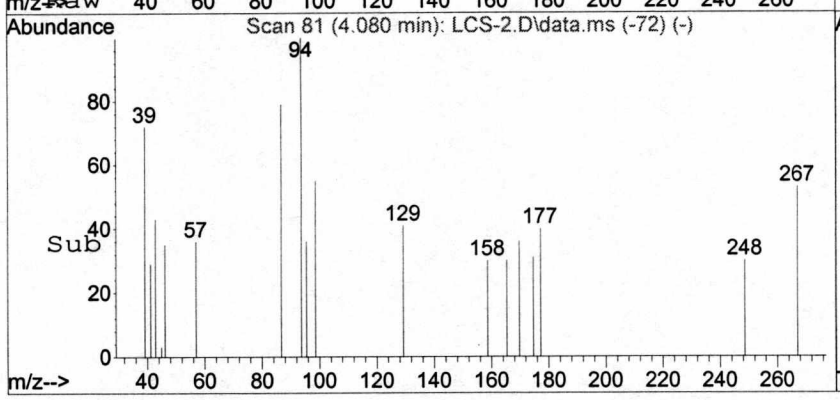


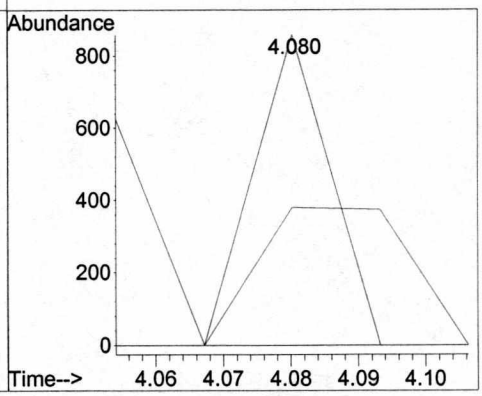


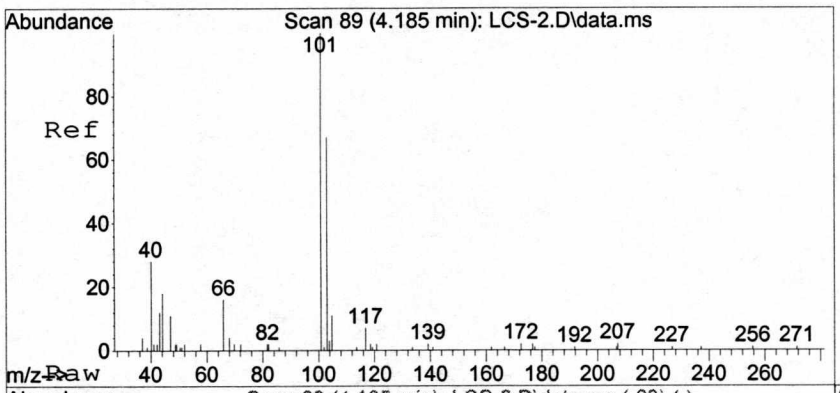
#14
Ethanol
Concen: 7.41 ppbv
RT: 4.080 min Scan# 81
Delta R.T. 0.013 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 45 Resp: 671

Ion	Ratio	Lower	Upper
45	100		
46	87.9	0.0	0.0#



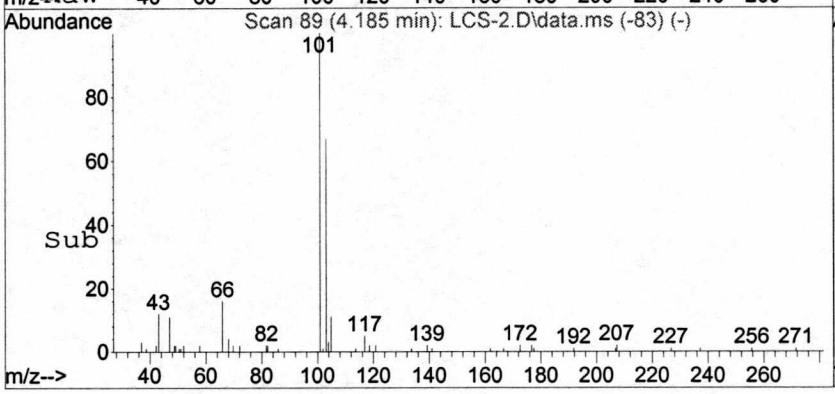


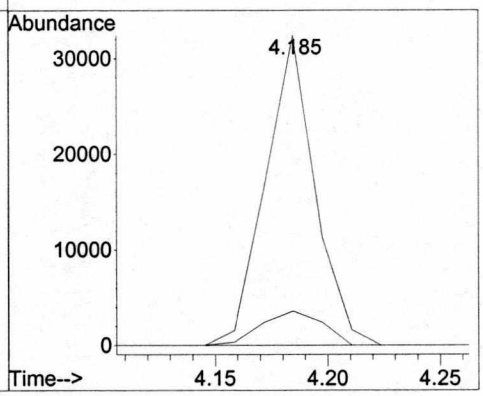


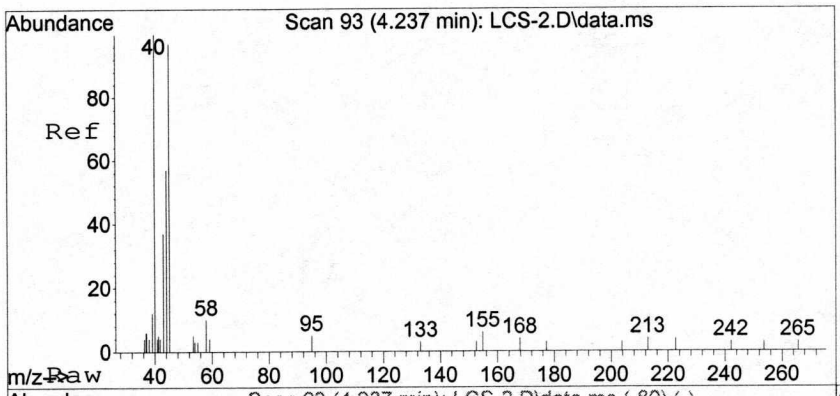
#15
Trichlorofluoromethane
Concen: 60.22 ppbv
RT: 4.185 min Scan# 89
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:101 Resp: 49368

Ion	Ratio	Lower	Upper
101	100		
105	13.9	8.6	12.8#



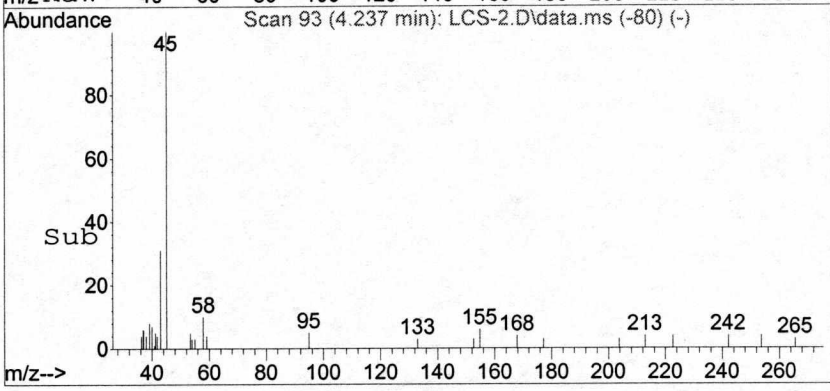


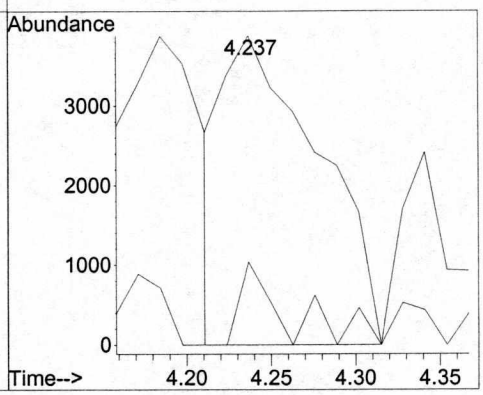


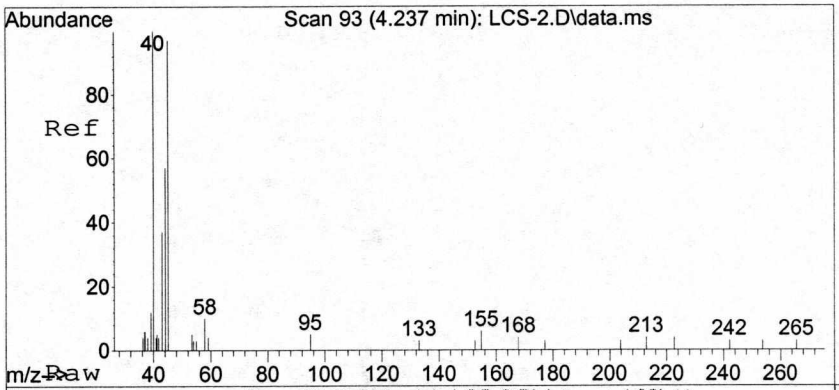
#16
Acetone
Concen: 40.94 ppbv
RT: 4.237 min Scan# 93
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 43 Resp: 15464

Ion	Ratio	Lower	Upper
43	100		
58	7.9	0.0	0.0#



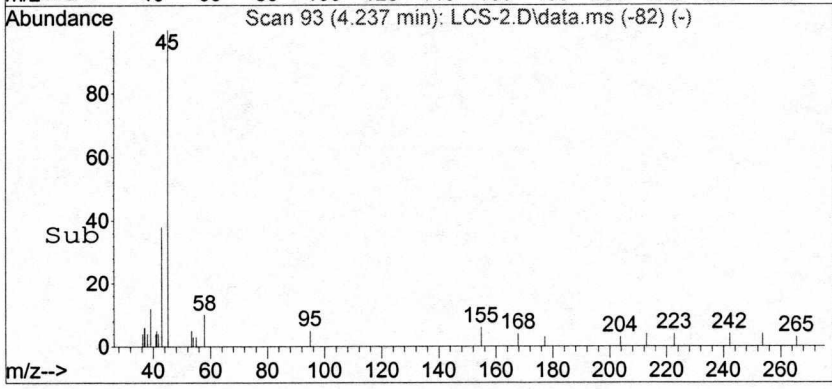


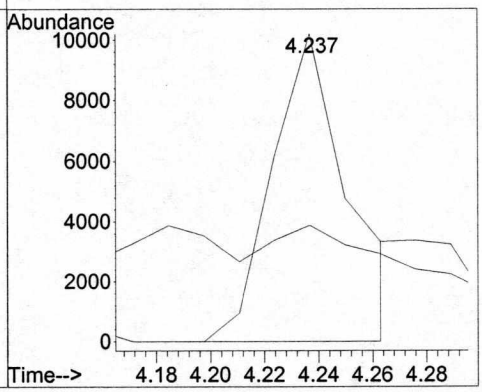


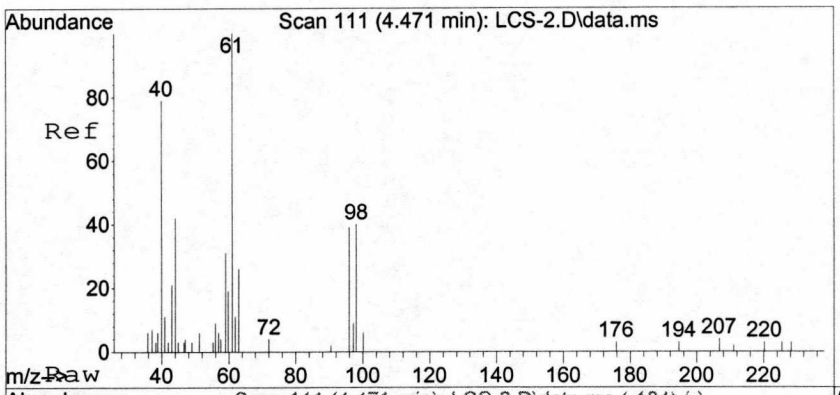
#17
Isopropyl alcohol
Concen: 35.22 ppbv
RT: 4.237 min Scan# 93
Delta R.T. -0.013 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 45 Resp: 19907

Ion	Ratio	Lower	Upper
45	100		
43	77.7	55.4	83.0



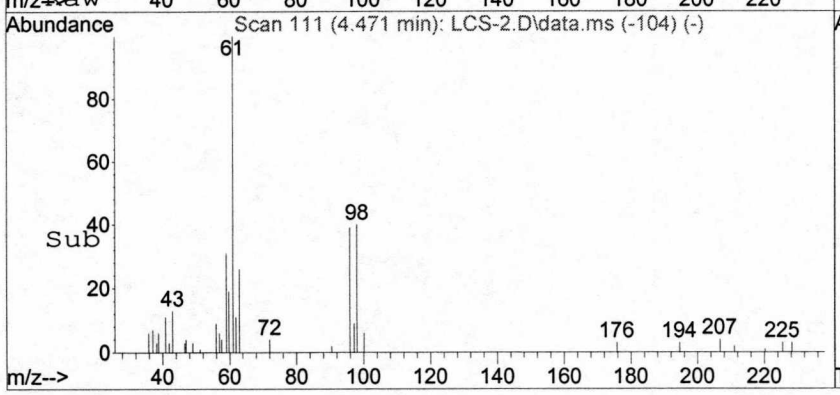


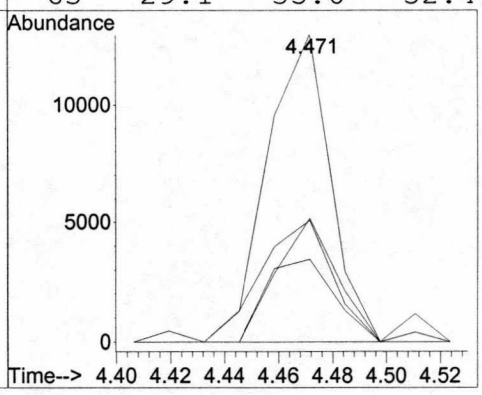


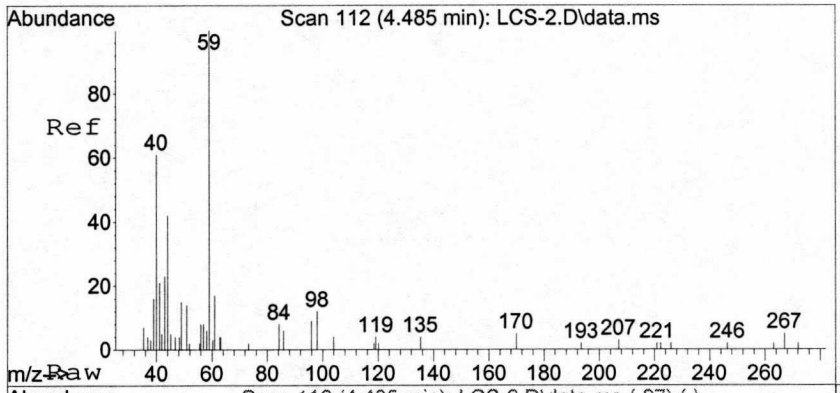
#18
1,1-Dichloroethene
Concen: 52.83 ppbv
RT: 4.471 min Scan# 111
Delta R.T. -0.013 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 61 Resp: 20950

Ion	Ratio	Lower	Upper
61	100		
96	44.6	58.7	88.1#
98	37.9	29.0	43.4
63	29.1	35.0	52.4#



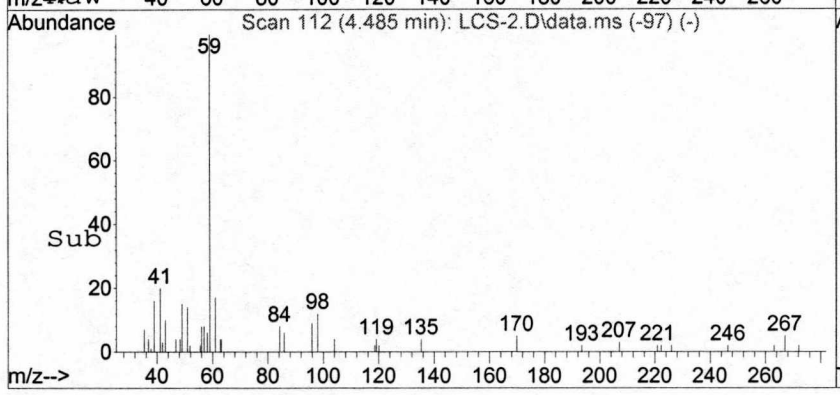


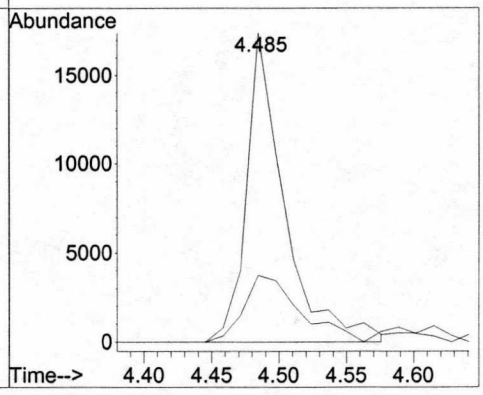


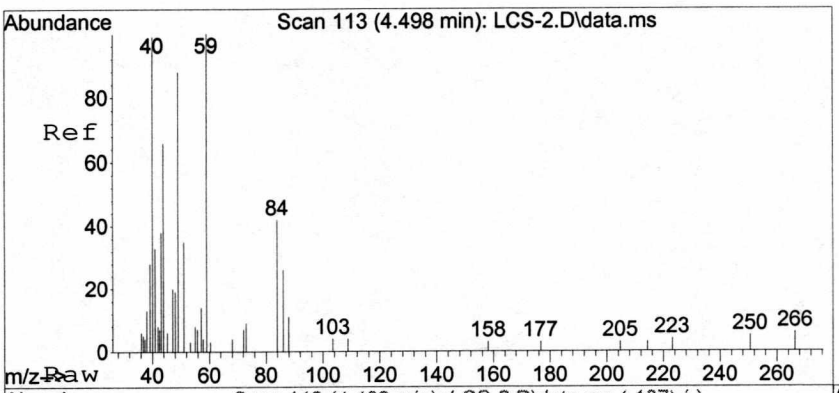
#19
tert-Butyl Alcohol
Concen: 52.59 ppbv
RT: 4.485 min Scan# 112
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 59 Resp: 33822

Ion	Ratio	Lower	Upper
59	100		
41	31.9	18.9	28.3#



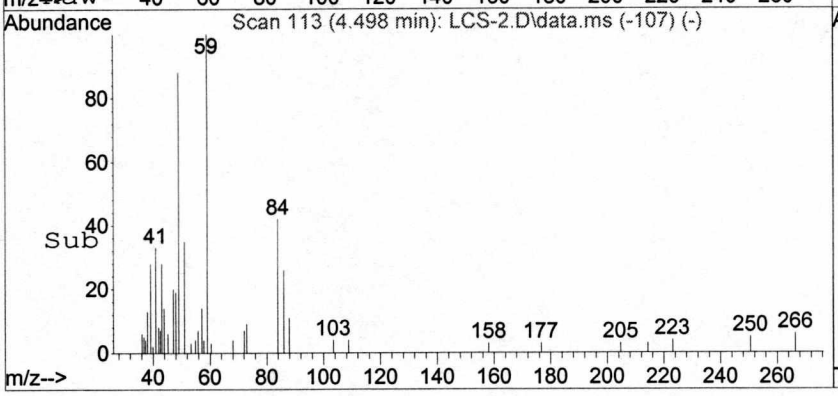


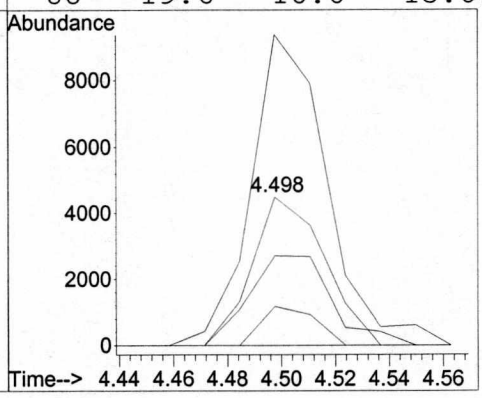


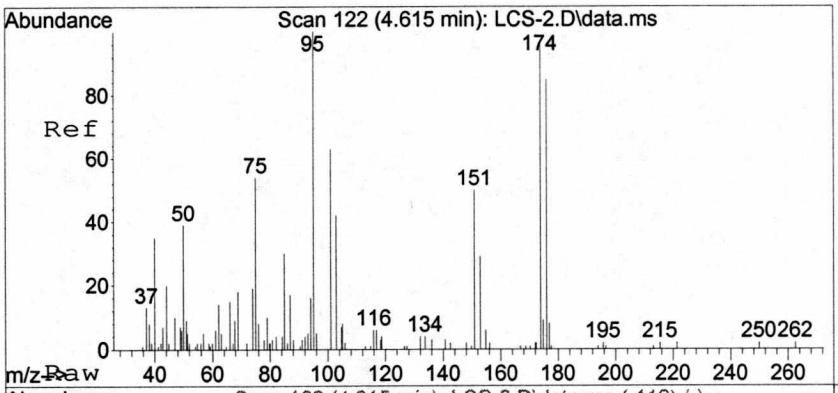
#20
Methylene Chloride
Concen: 56.34 ppbv
RT: 4.498 min Scan# 113
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 84 Resp: 8398

Ion	Ratio	Lower	Upper
84	100		
86	69.3	39.8	59.6#
49	219.5	137.8	206.8#
88	19.6	10.0	15.0#



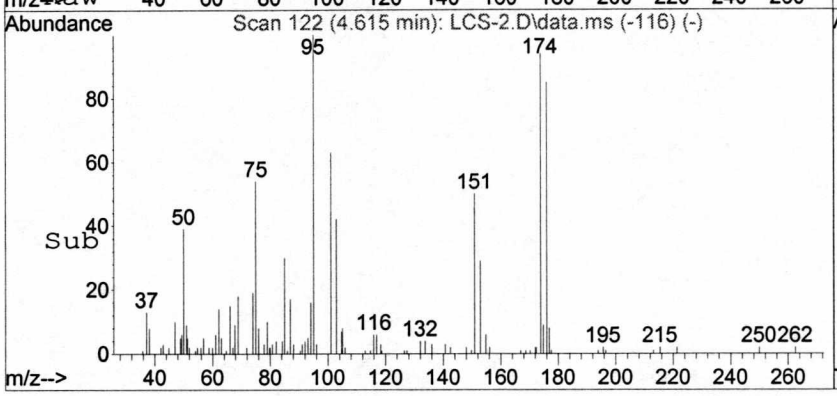


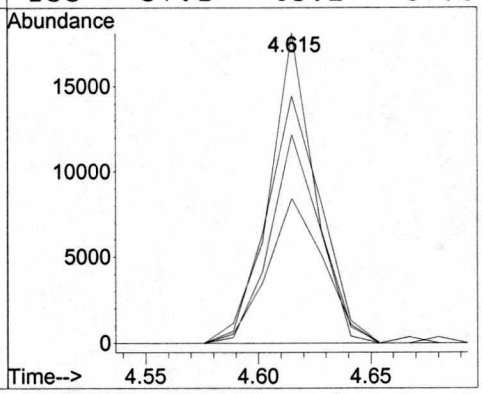


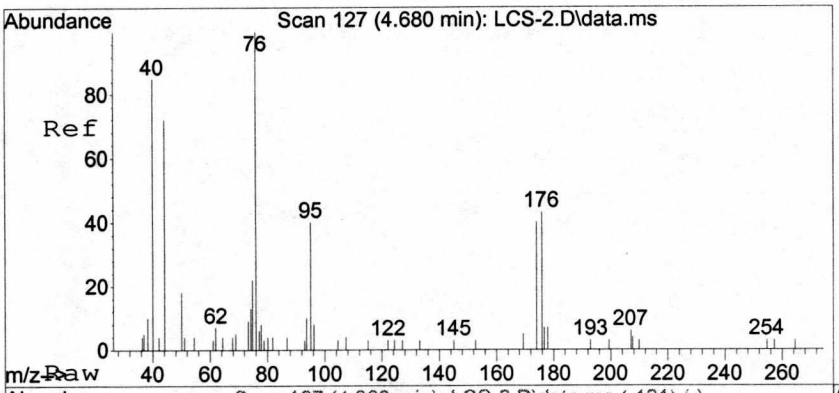
#21
1,1,2-Trichlorotrifluoroethane
Concen: 53.74 ppbv
RT: 4.615 min Scan# 122
Delta R.T. -0.026 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:101 Resp: 25546

Ion	Ratio	Lower	Upper
101	100		
151	94.8	101.2	151.8#
103	72.2	59.8	89.8
153	57.1	45.2	67.8



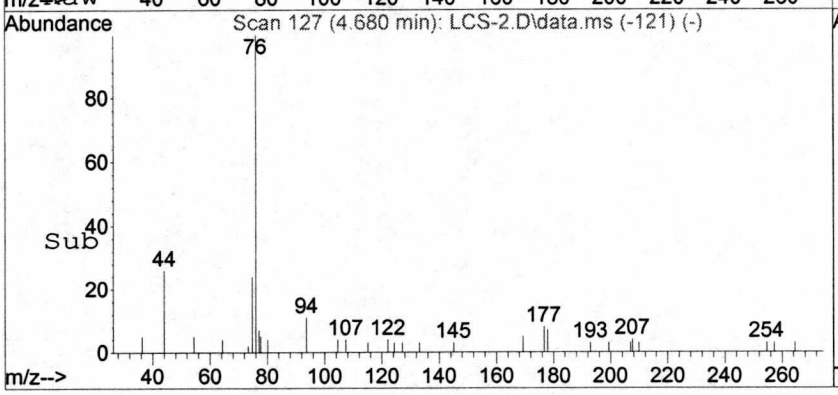


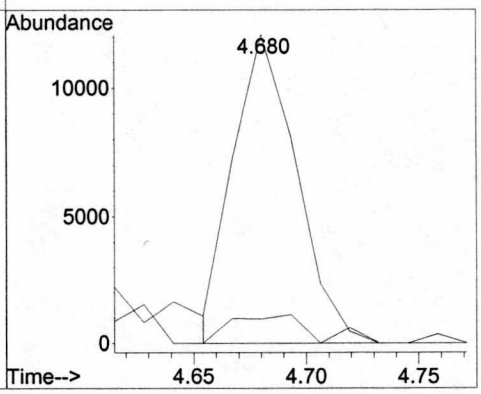


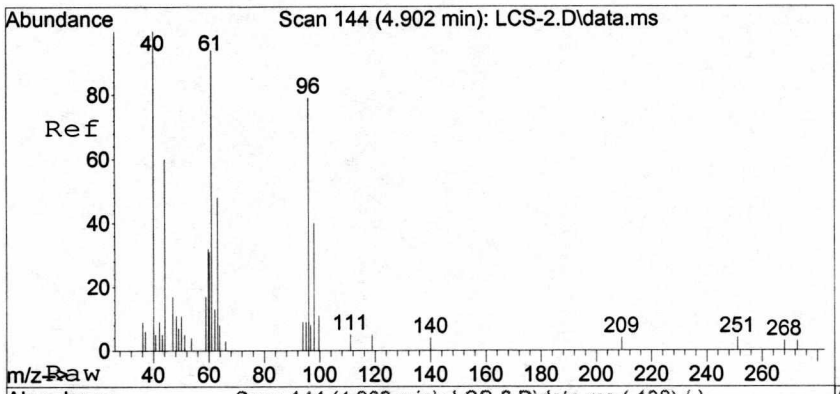
#22
Carbon Disulfide
Concen: 44.40 ppbv
RT: 4.680 min Scan# 127
Delta R.T. -0.016 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 76 Resp: 23679

Ion	Ratio	Lower	Upper
76	100		
78	10.1	8.4	12.6



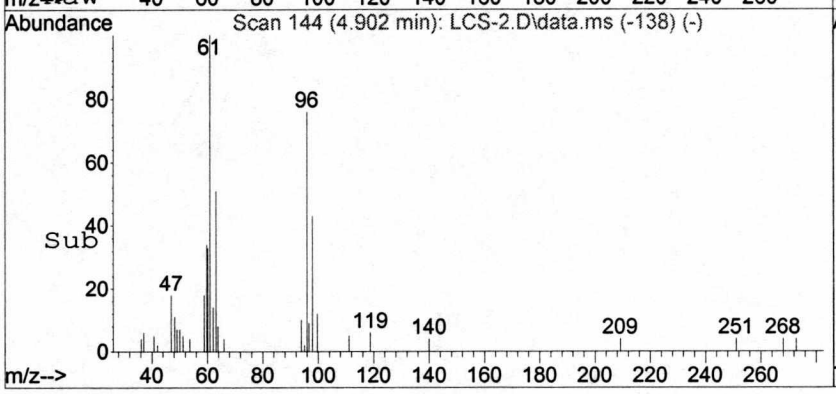


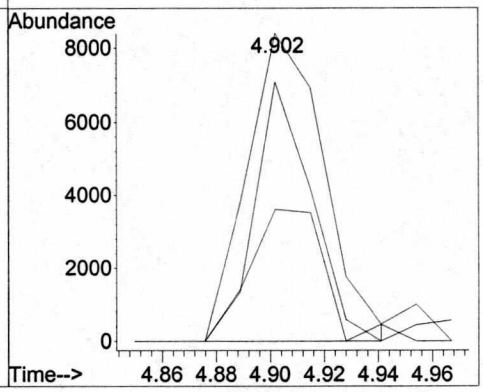


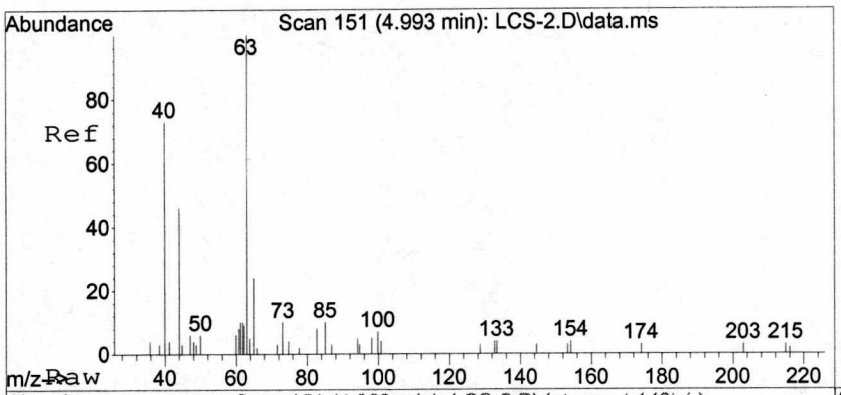
#23
trans-1,2-Dichloroethene
Concen: 44.72 ppbv
RT: 4.902 min Scan# 144
Delta R.T. -0.016 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 61 Resp: 16675

Ion	Ratio	Lower	Upper
61	100		
96	61.9	31.9	47.9#
98	40.0	26.8	40.2



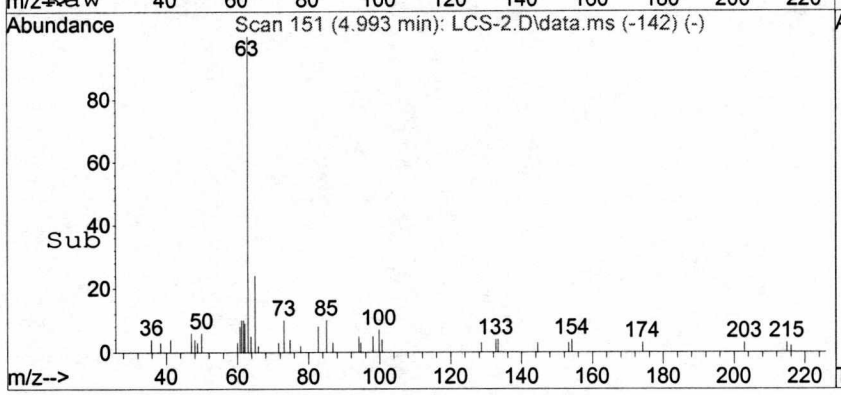


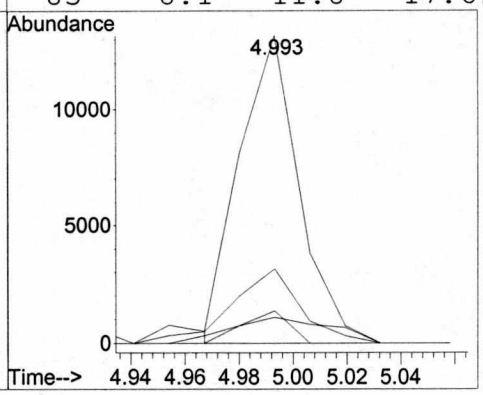


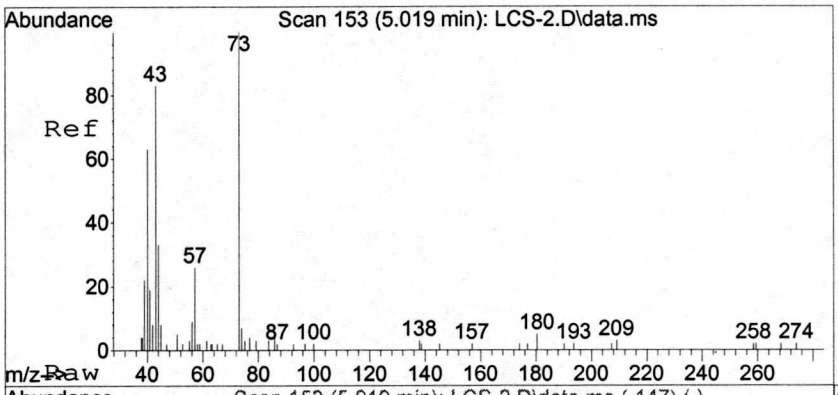
#24
1,1-Dichloroethane
Concen: 44.84 ppbv
RT: 4.993 min Scan# 151
Delta R.T. -0.003 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 63 Resp: 20240

Ion	Ratio	Lower	Upper
63	100		
65	27.7	19.5	29.3
83	13.8	11.4	17.2
85	8.1	11.8	17.6#



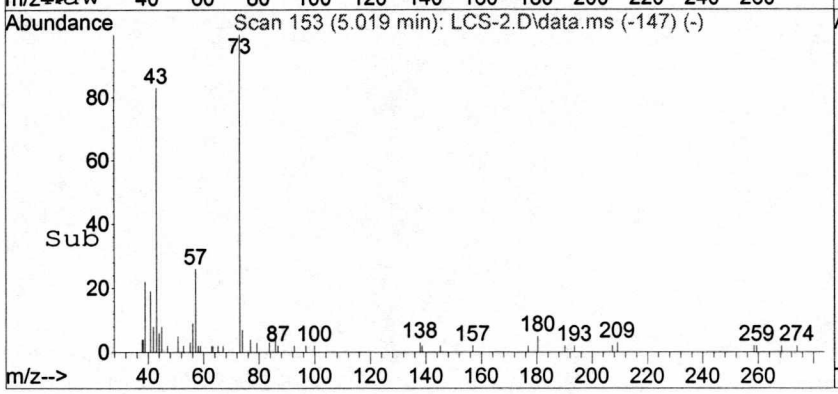


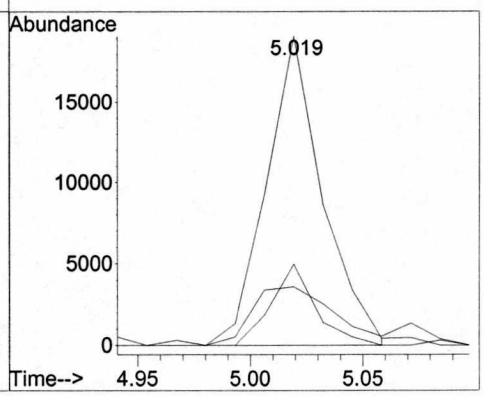


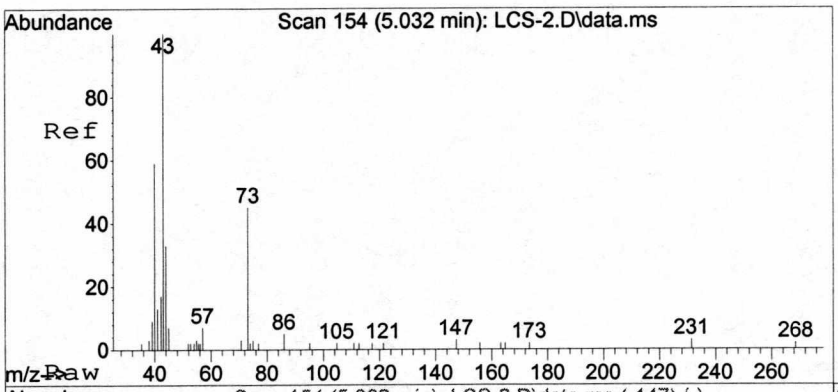
#25
Methyl tert-Butyl Ether
Concen: 49.14 ppbv
RT: 5.019 min Scan# 153
Delta R.T. -0.015 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 73 Resp: 32921

Ion	Ratio	Lower	Upper
73	100		
57	20.7	18.6	28.0
41	27.9	25.8	38.8



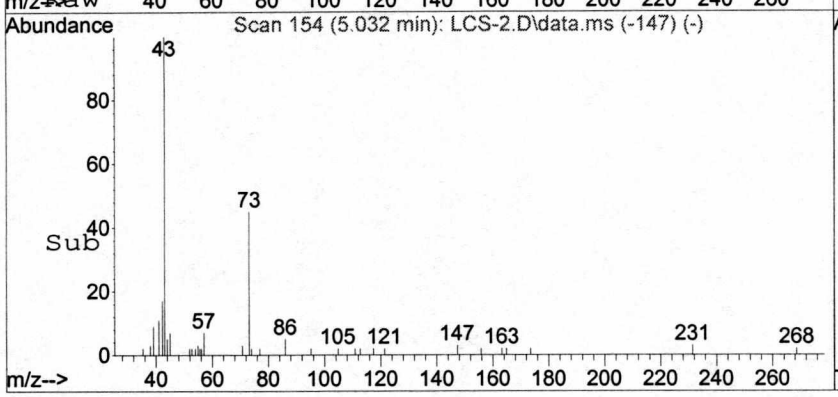


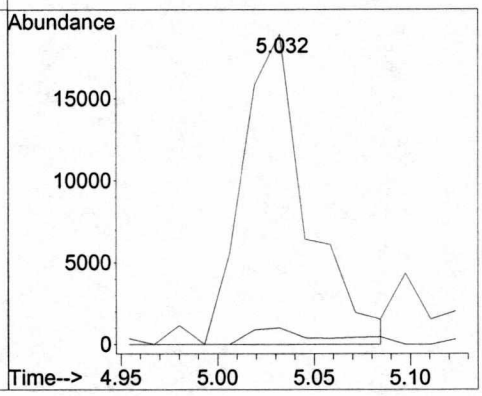


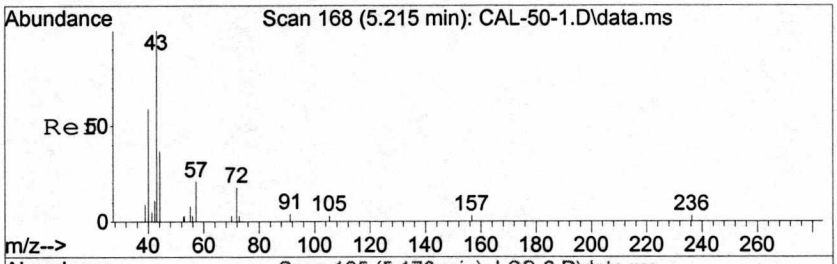
#26
Vinyl Acetate
Concen: 48.46 ppbv
RT: 5.032 min Scan# 154
Delta R.T. -0.013 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 43 Resp: 44133

Ion	Ratio	Lower	Upper
43	100		
86	4.8	3.5	5.3



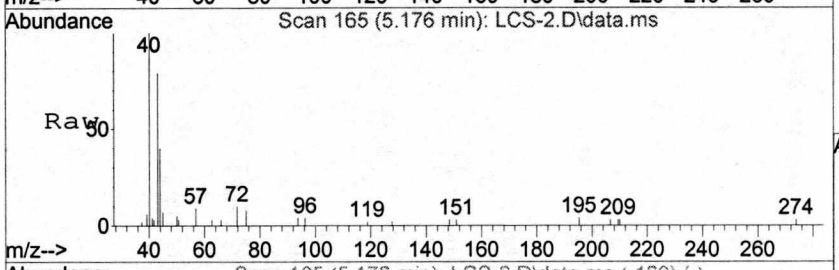


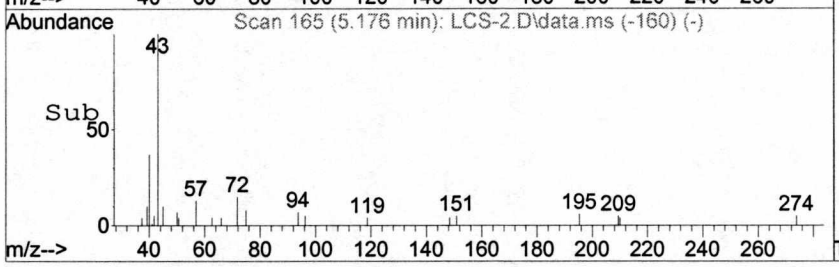


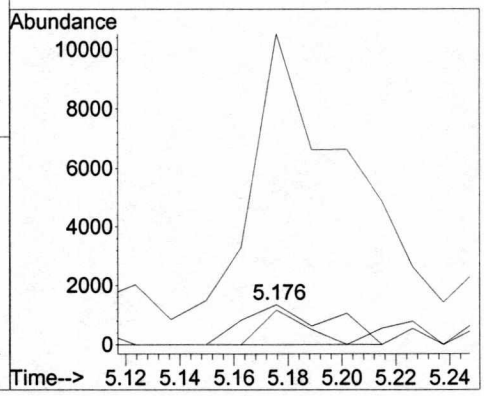
#27
2-Butanone
Concen: 38.96 ppbv
RT: 5.176 min Scan# 165
Delta R.T. -0.039 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

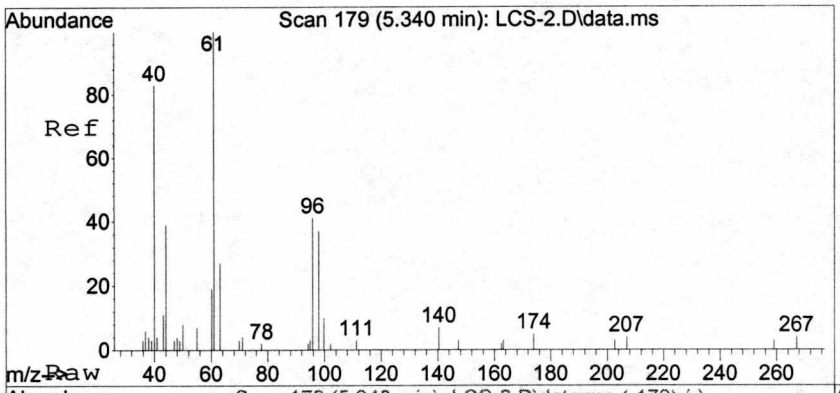
Tgt Ion: 72 Resp: 3038

Ion	Ratio	Lower	Upper
72	100		
43	766.2	266.6	399.8#
57	43.4	29.0	43.6





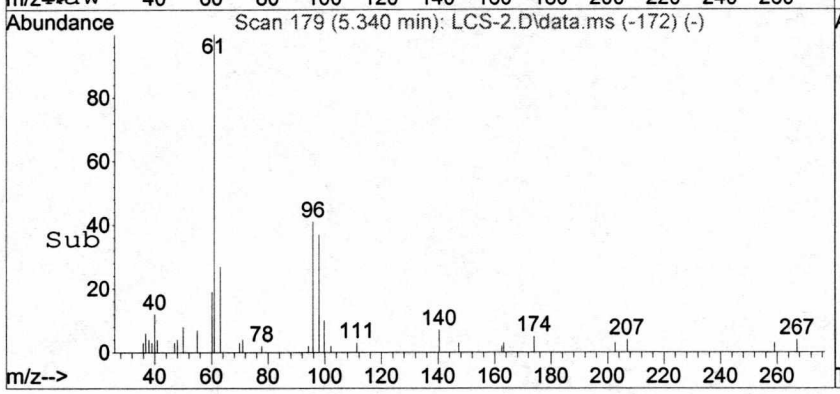


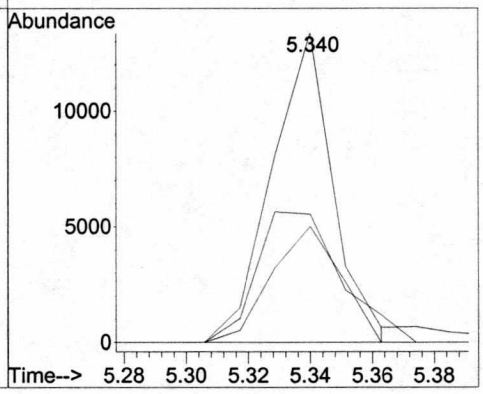


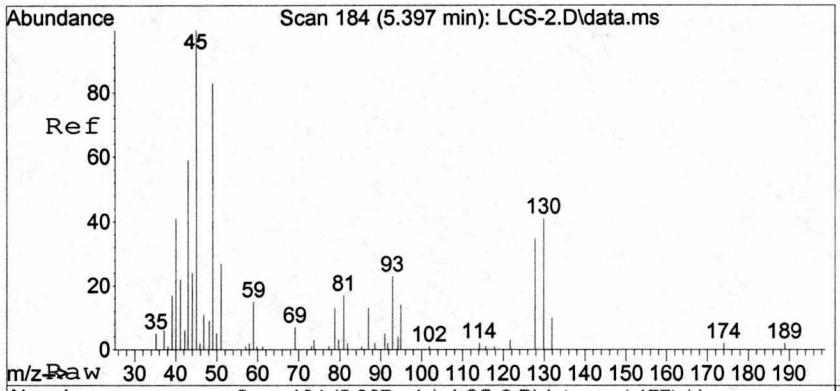
#28
cis-1,2-dichloroethene
Concen: 52.72 ppbv
RT: 5.340 min Scan# 179
Delta R.T. -0.023 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 61 Resp: 18340

Ion	Ratio	Lower	Upper
61	100		
96	58.2	46.5	69.7
98	42.2	17.4	26.0#



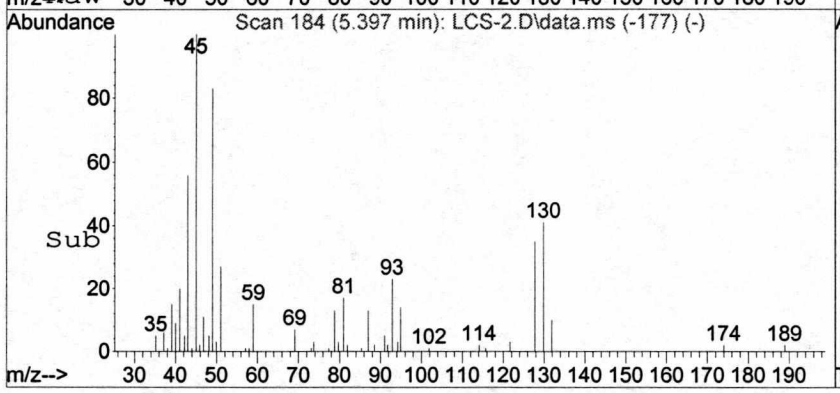


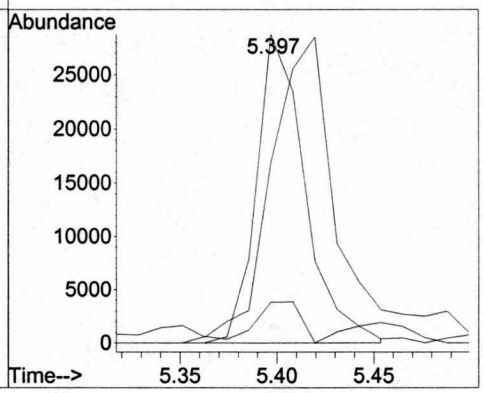


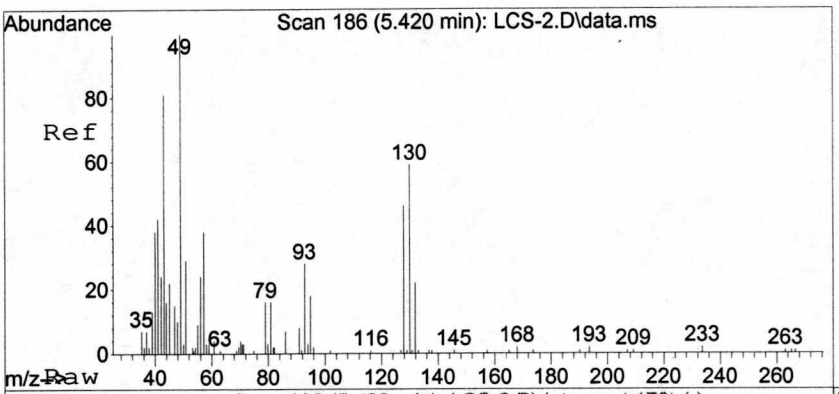
#29
Di-Isopropyl Ether
Concen: 47.52 ppbv
RT: 5.397 min Scan# 184
Delta R.T. -0.023 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 45 Resp: 50076

Ion	Ratio	Lower	Upper
45	100		
43	125.3	50.5	75.7#
87	13.4	14.1	21.1#



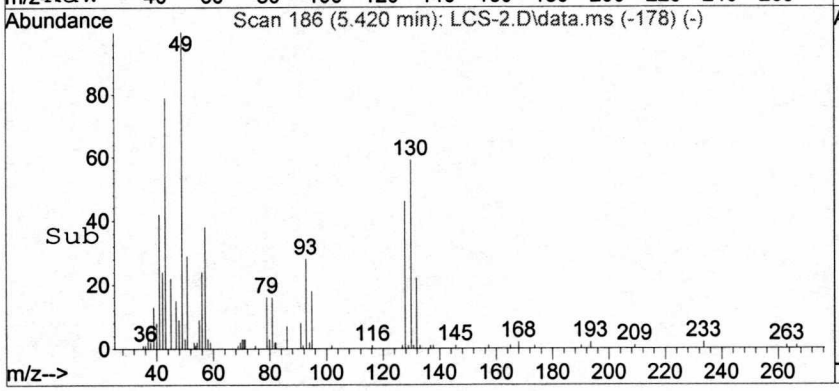


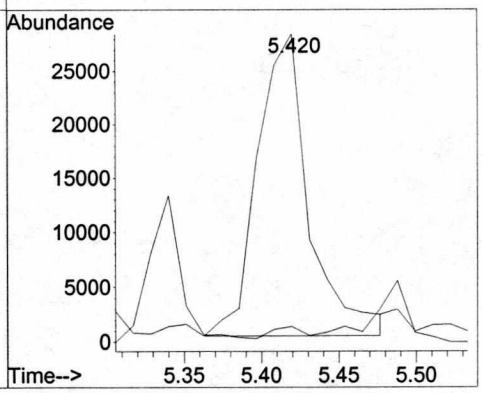


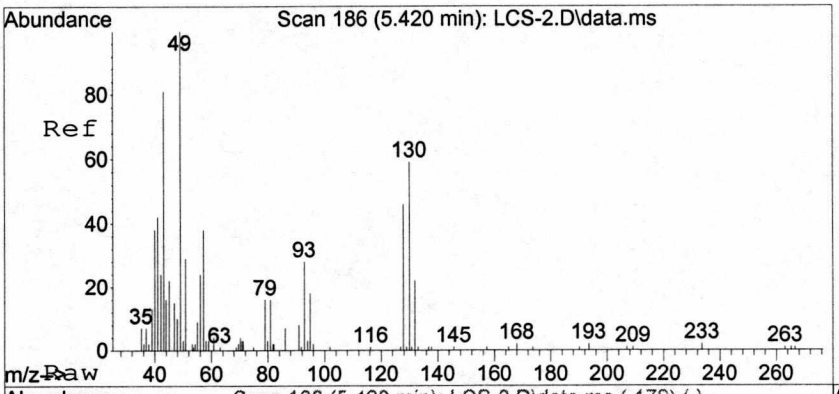
#30
Ethyl Acetate
Concen: 48.95 ppbv
RT: 5.420 min Scan# 186
Delta R.T. -0.011 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 43 Resp: 64092

Ion	Ratio	Lower	Upper
43	100		
61	2.3	5.2	7.8#



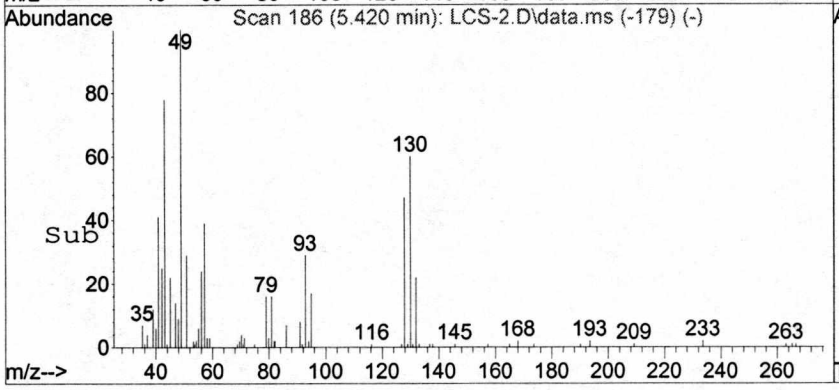


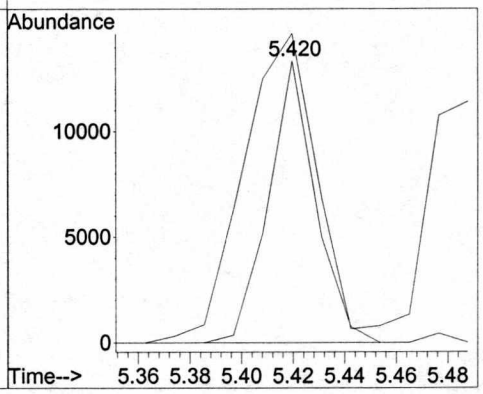


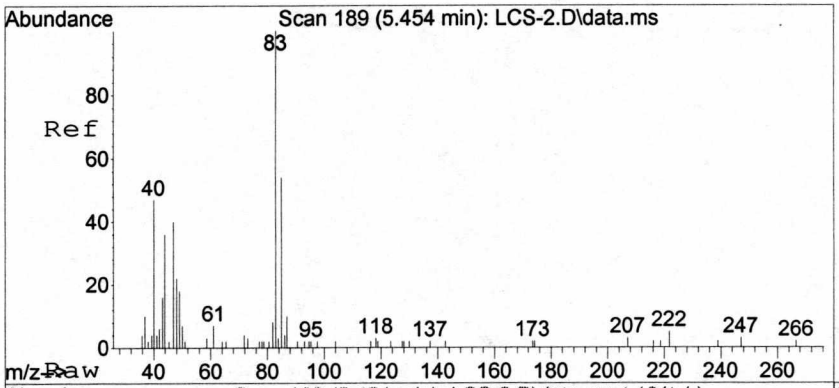
#31
n-Hexane
Concen: 50.12 ppbv
RT: 5.420 min Scan# 186
Delta R.T. -0.023 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 57 Resp: 16813

Ion	Ratio	Lower	Upper
57	100		
41	170.9	124.1	186.1



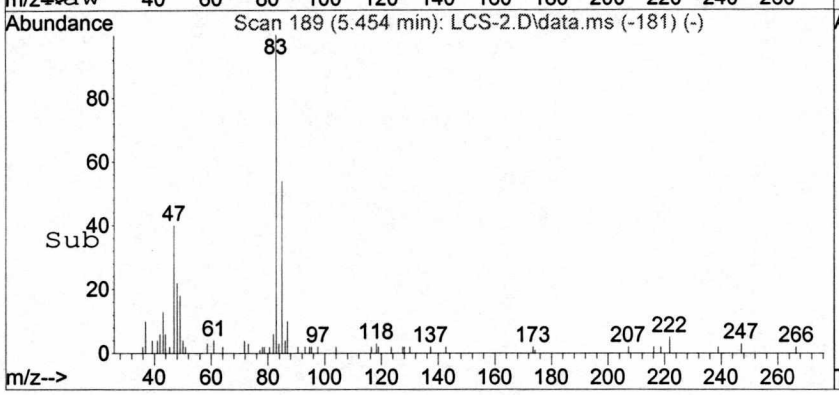


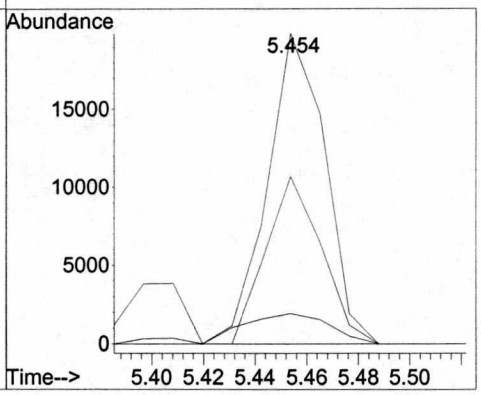


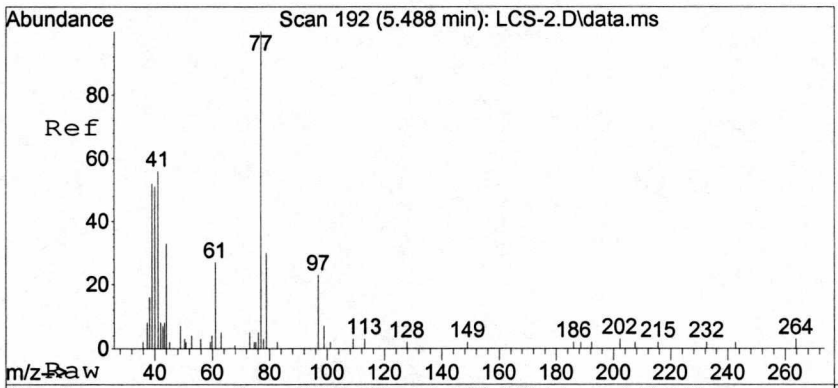
#32
Chloroform
Concen: 59.39 ppbv
RT: 5.454 min Scan# 189
Delta R.T. -0.011 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 83 Resp: 30817

Ion	Ratio	Lower	Upper
83	100		
85	52.0	34.7	52.1
87	14.5	0.0	0.0#



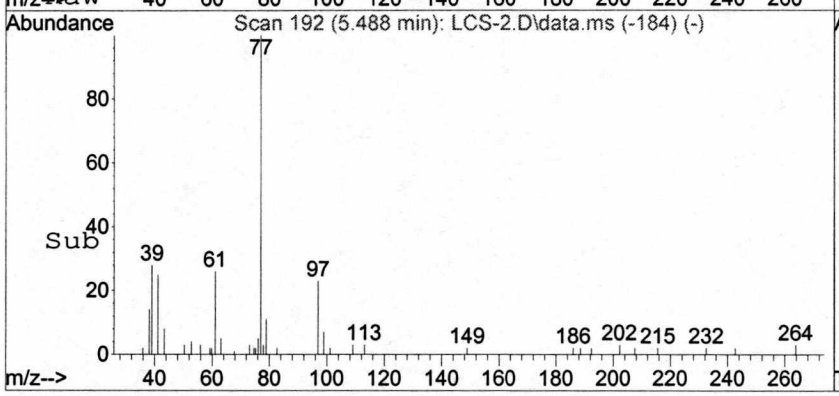


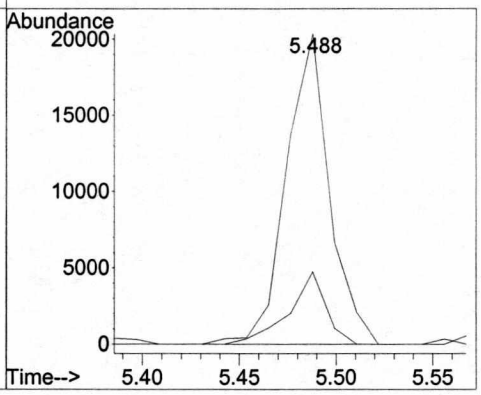


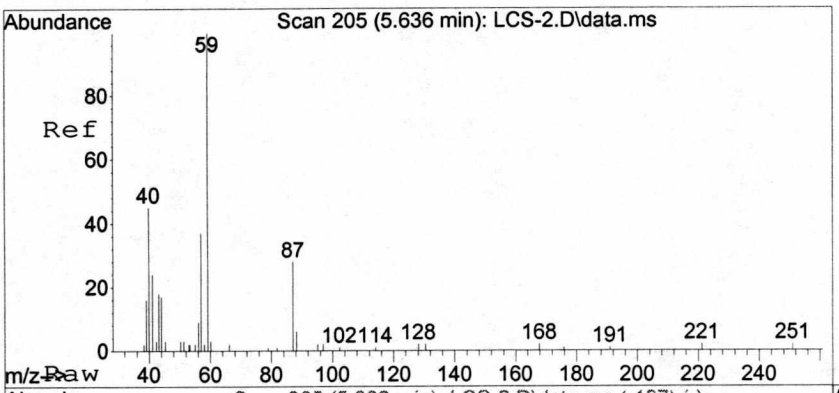
#33
2,2 Dichloropropane
Concen: 58.54 ppbv
RT: 5.488 min Scan# 192
Delta R.T. -0.011 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 77 Resp: 31516

Ion	Ratio	Lower	Upper
77	100		
97	20.0	20.6	30.8#



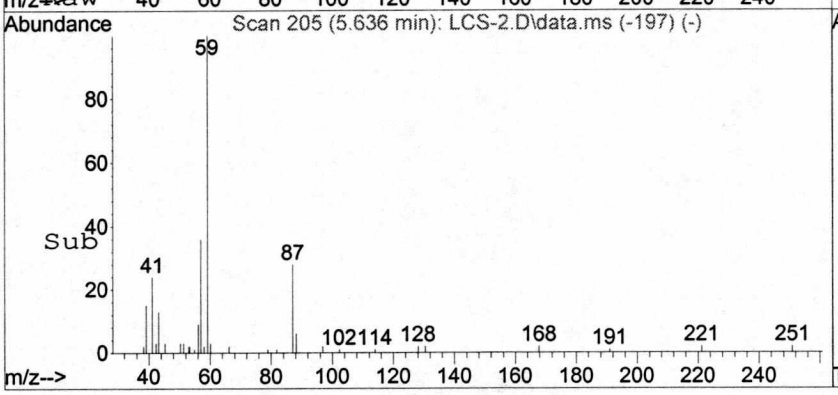


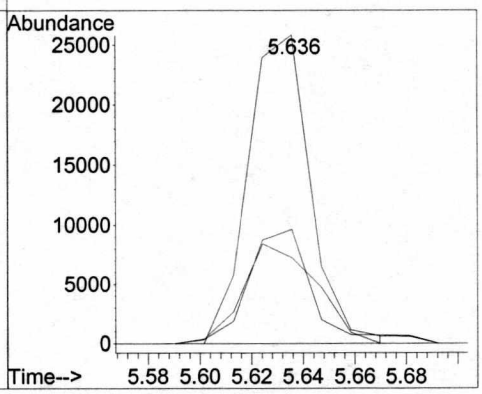


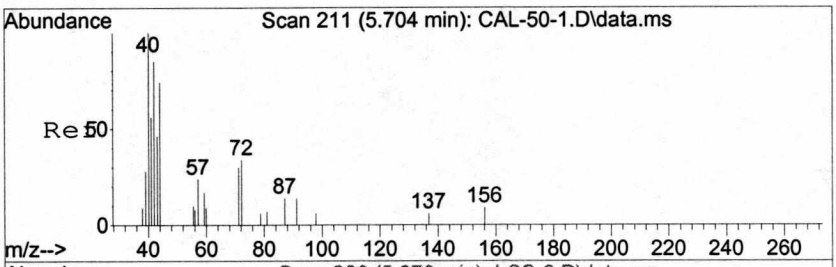
#34
Ethyl tert-Butyl Ether
Concen: 51.10 ppbv
RT: 5.636 min Scan# 205
Delta R.T. -0.011 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 59 Resp: 43496

Ion	Ratio	Lower	Upper
59	100		
57	37.7	19.9	29.9#
87	38.2	29.4	44.0



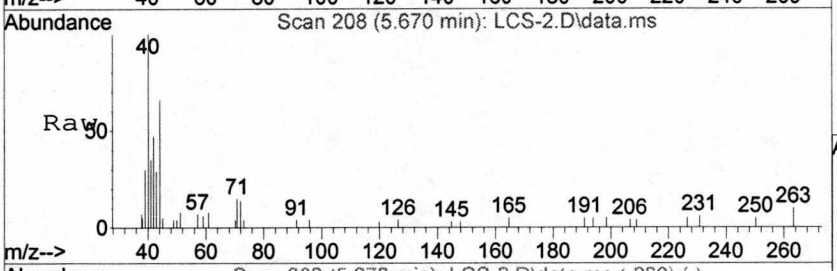


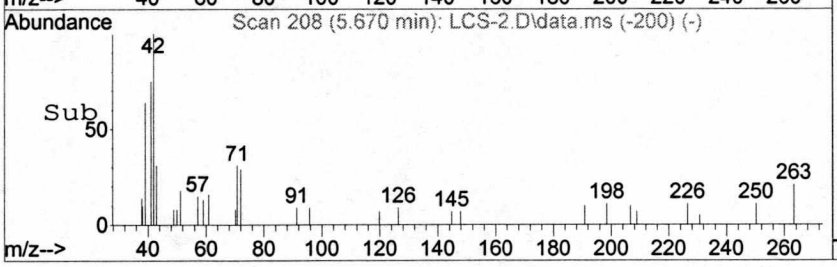


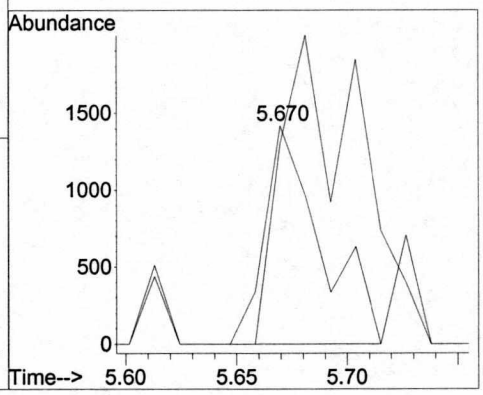
#35
Tetrahydrofuran
Concen: 32.18 ppbv
RT: 5.670 min Scan# 208
Delta R.T. -0.022 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

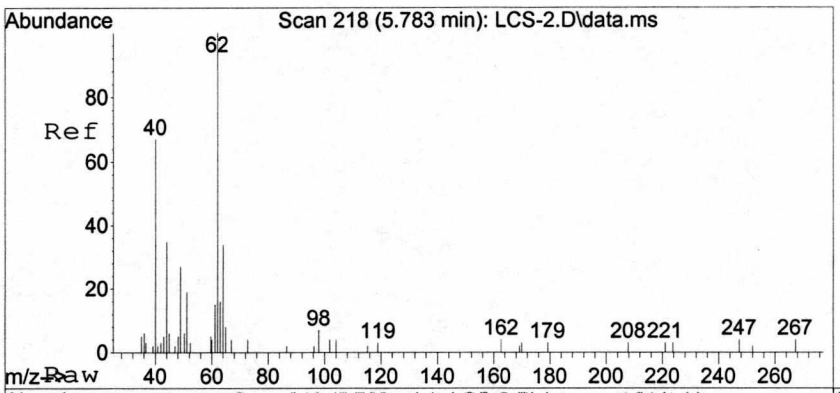
Tgt Ion: 71 Resp: 2515

Ion	Ratio	Lower	Upper
71	100		
72	114.7	67.5	101.3#





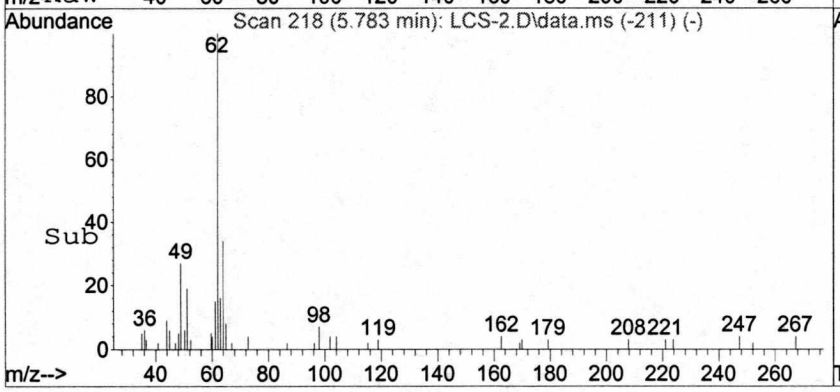


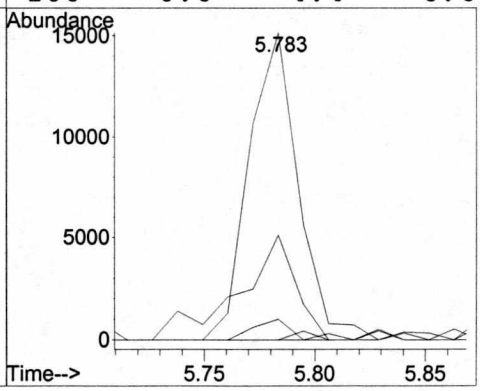


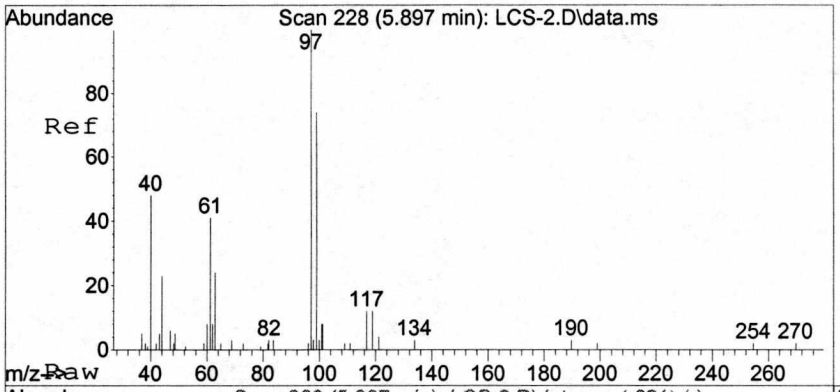
#37
1,2-Dichloroethane
Concen: 53.44 ppbv
RT: 5.783 min Scan# 218
Delta R.T. -0.023 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 62 Resp: 23348

Ion	Ratio	Lower	Upper
62	100		
64	39.4	25.6	38.4#
98	4.7	3.0	4.4#
100	0.0	4.4	6.6#



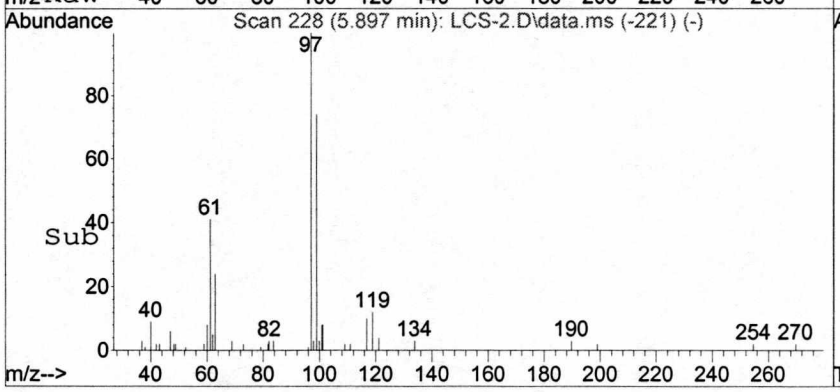


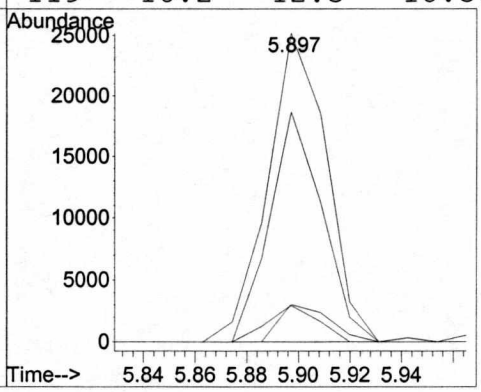


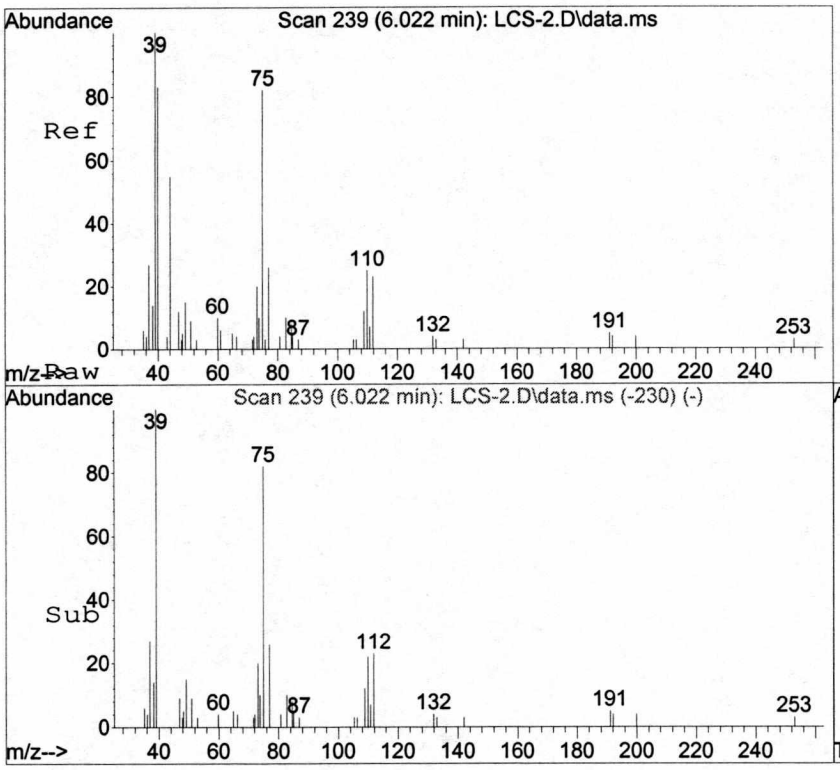
#38
1,1,1-Trichloroethane
Concen: 60.53 ppbv
RT: 5.897 min Scan# 228
Delta R.T. -0.023 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 97 Resp: 39636

Ion	Ratio	Lower	Upper
97	100		
99	66.5	57.8	86.8
117	10.0	6.7	10.1
119	10.2	12.3	18.5#



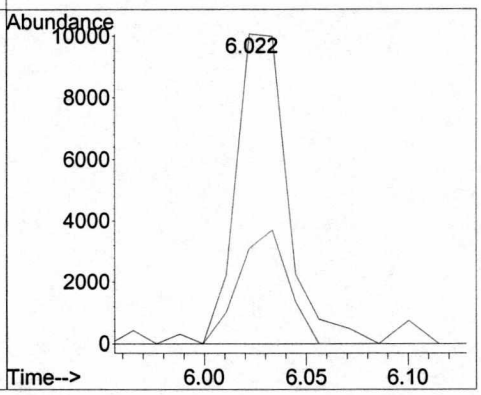


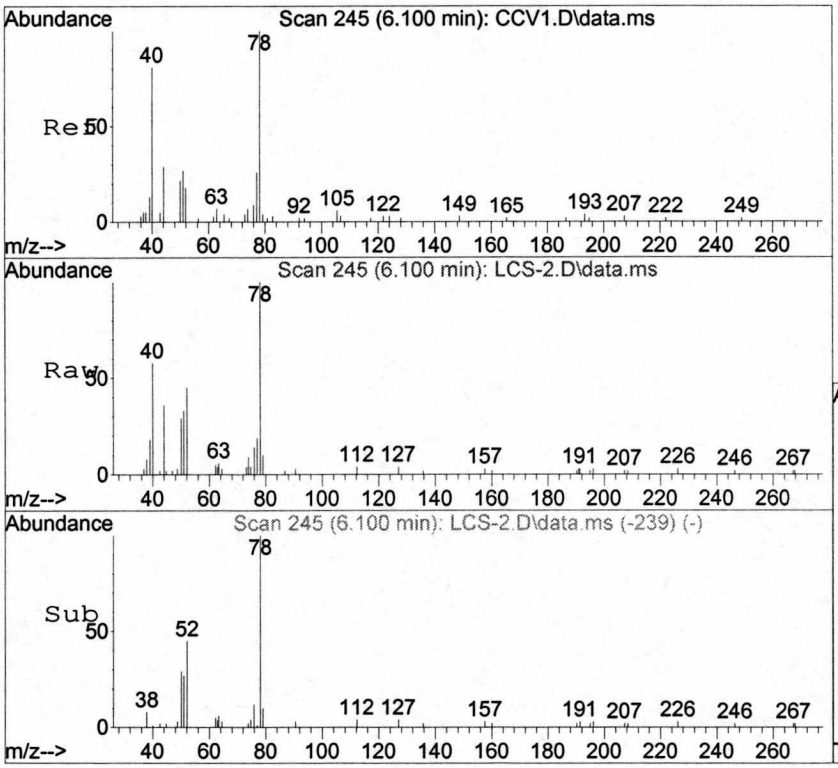


#39
1,1-Dichloropropene
Concen: 49.42 ppbv
RT: 6.022 min Scan# 239
Delta R.T. -0.023 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 75 Resp: 19077

Ion	Ratio	Lower	Upper
75	100		
110	32.7	23.5	35.3

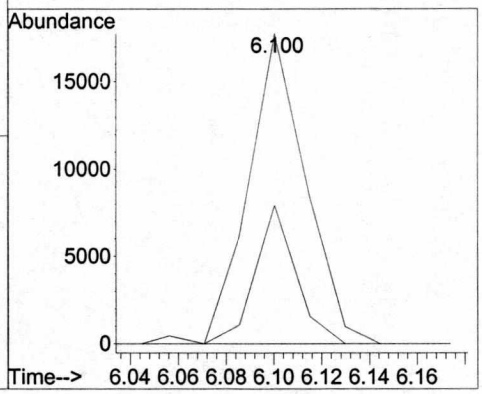


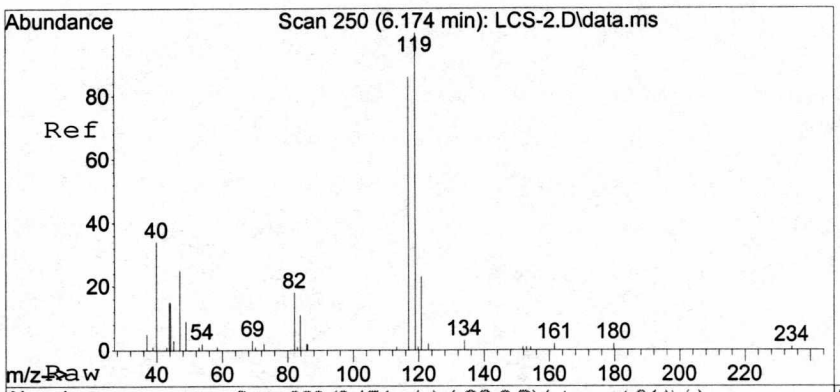


#40
Benzene
Concen: 53.65 ppbv
RT: 6.100 min Scan# 245
Delta R.T. -0.017 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 78 Resp: 29415

Ion	Ratio	Lower	Upper
78	100		
52	31.7	16.1	24.1#

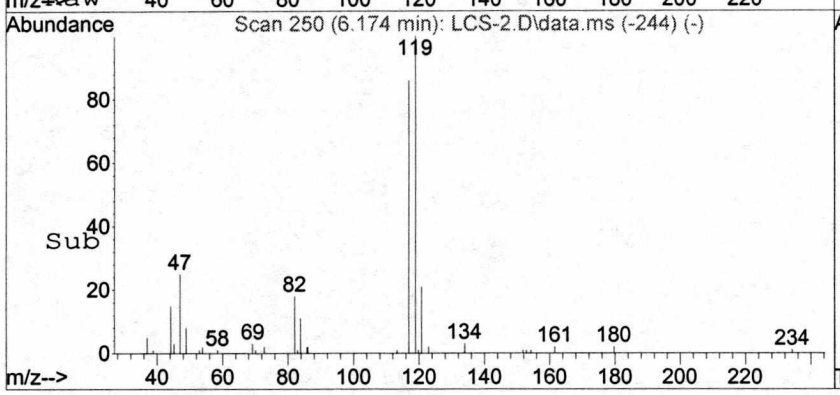


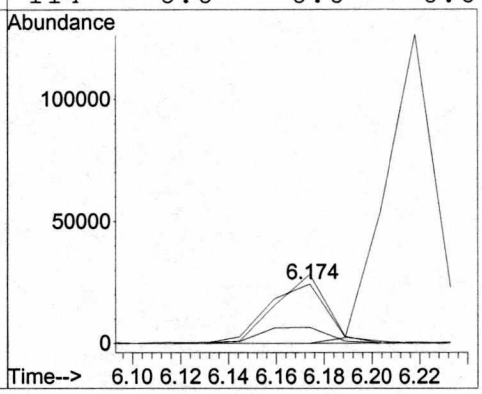


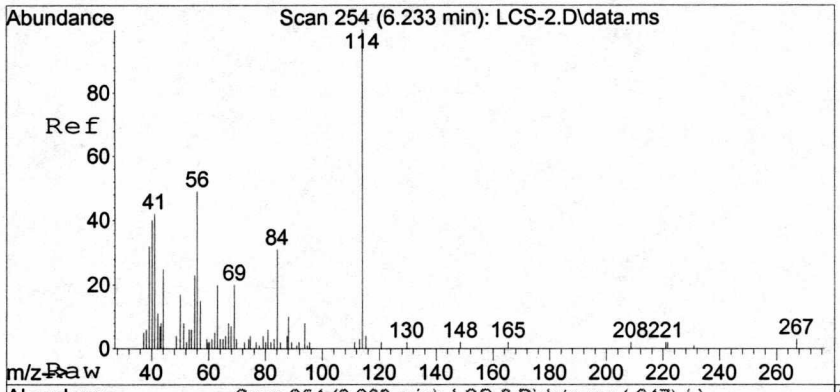
#41
Carbon Tetrachloride
Concen: 59.18 ppbv
RT: 6.174 min Scan# 250
Delta R.T. -0.015 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:117 Resp: 42969

Ion	Ratio	Lower	Upper
117	100		
119	98.0	73.4	110.0
121	29.9	21.9	32.9
114	0.0	0.0	0.0



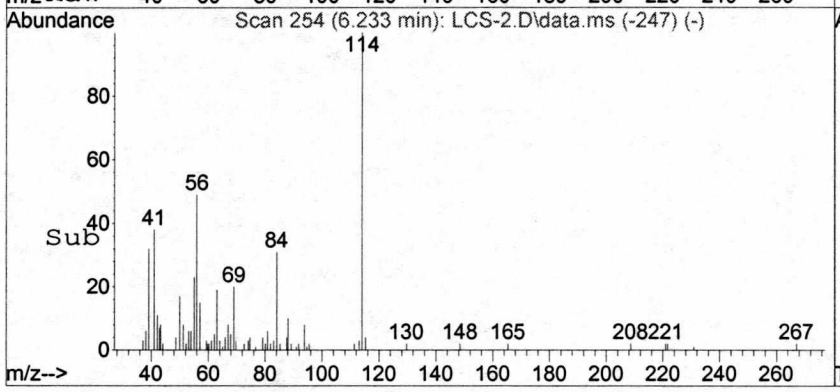


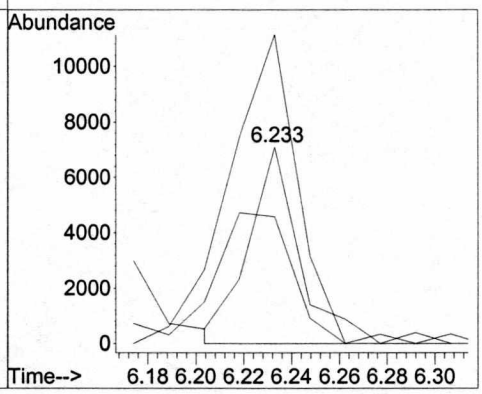


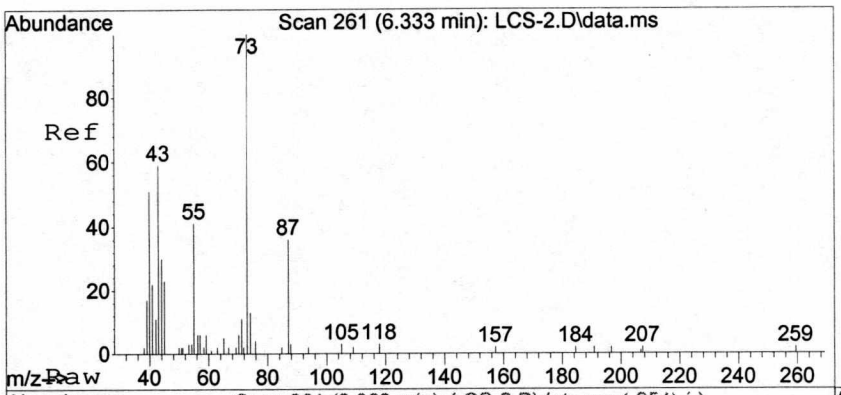
#43
Cyclohexane
Concen: 37.36 ppbv
RT: 6.233 min Scan# 254
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 84 Resp: 10368

Ion	Ratio	Lower	Upper
84	100		
56	213.5	112.8	169.2#
69	108.6	55.4	83.2#



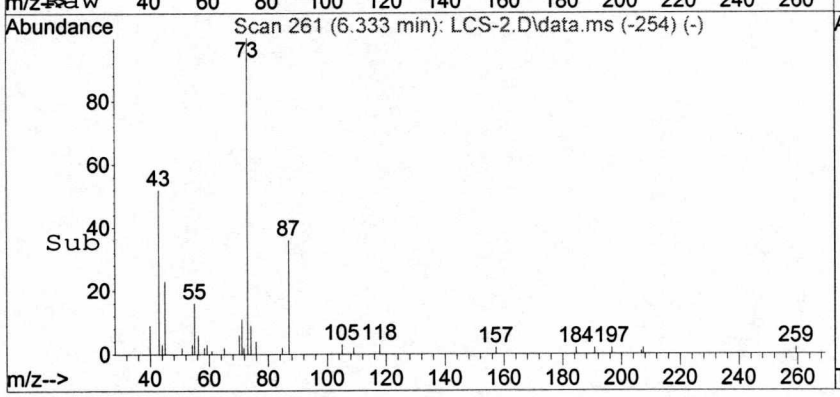


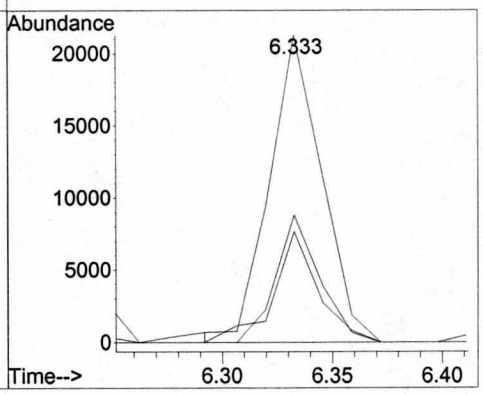


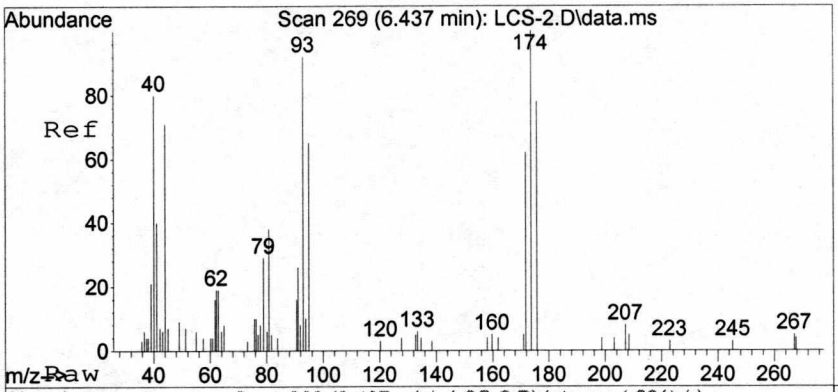
#44
tert-Amyl Methyl Ether
Concen: 49.46 ppbv
RT: 6.333 min Scan# 261
Delta R.T. -0.007 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 73 Resp: 35650

Ion	Ratio	Lower	Upper
73	100		
55	34.1	21.0	31.6#
87	30.8	23.6	35.4



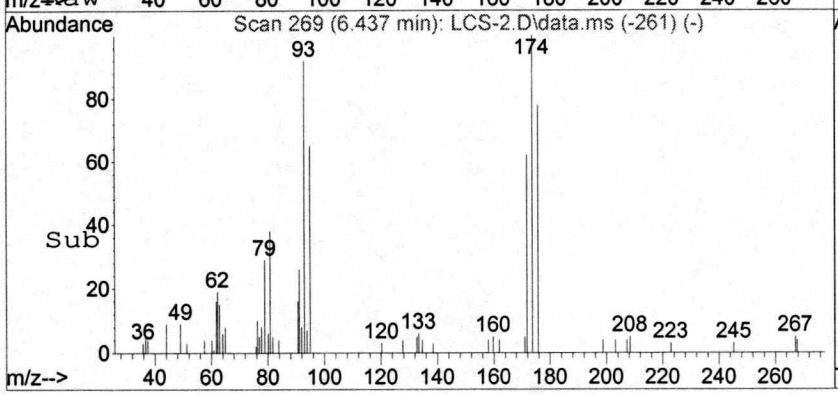


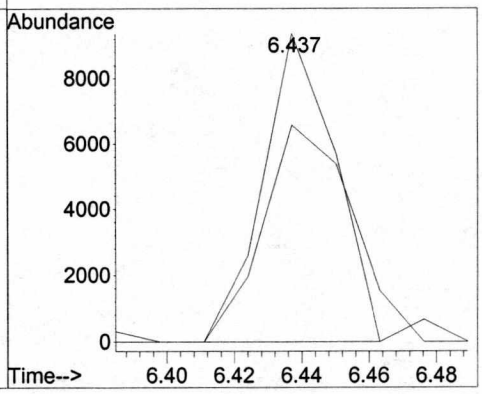


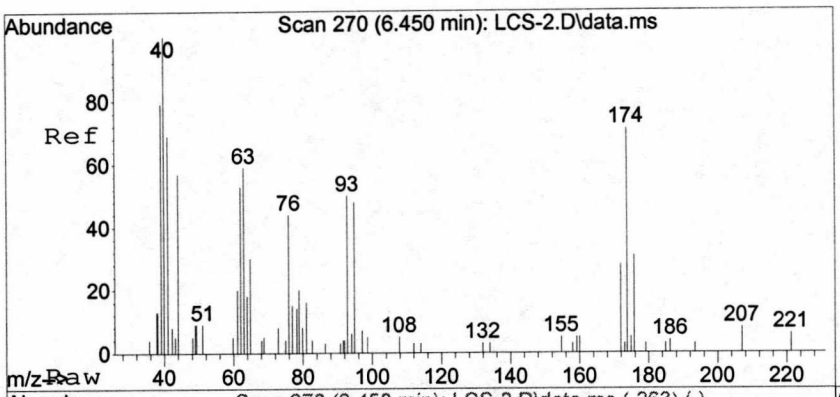
#45
Dibromomethane
Concen: 47.79 ppbv
RT: 6.437 min Scan# 269
Delta R.T. 0.007 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 93 Resp: 13839

Ion	Ratio	Lower	Upper
93	100		
95	87.5	106.1	159.1#



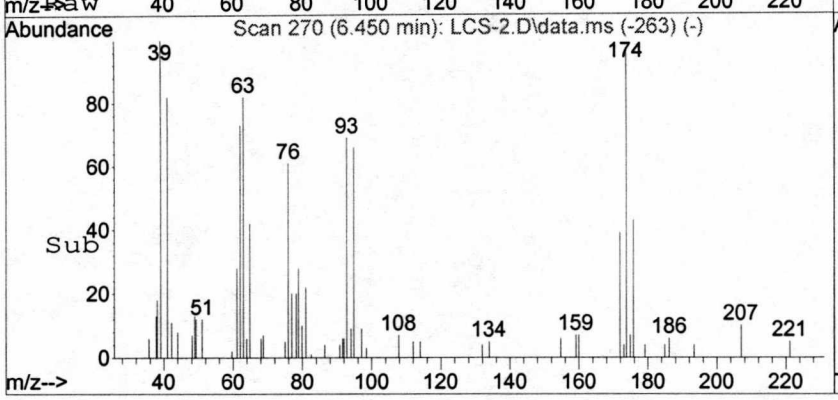


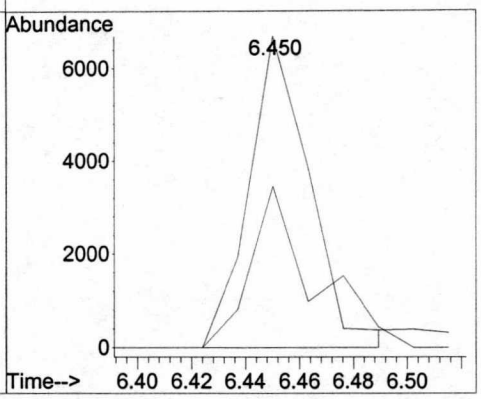


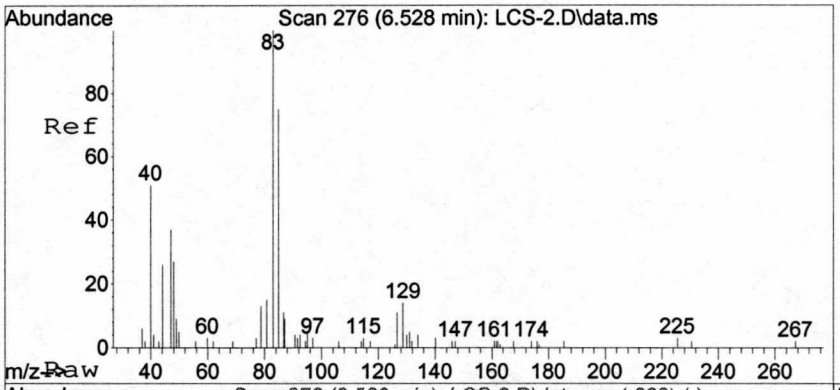
#46
1,2-Dichloropropane
Concen: 42.32 ppbv
RT: 6.450 min Scan# 270
Delta R.T. -0.011 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 63 Resp: 10365

Ion	Ratio	Lower	Upper
63	100		
65	54.4	18.8	28.2#



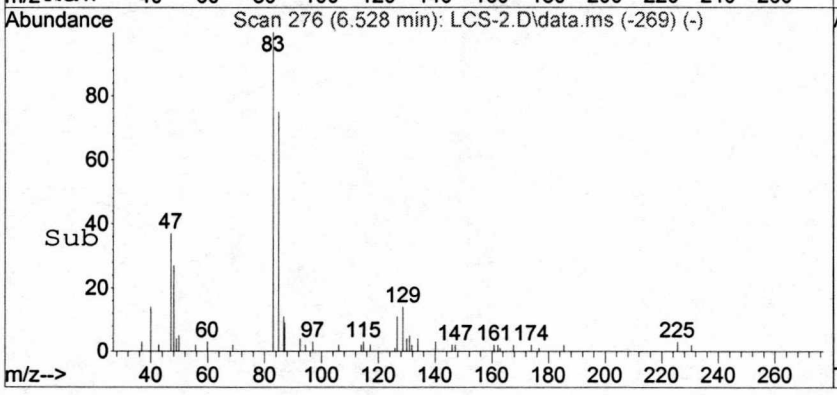


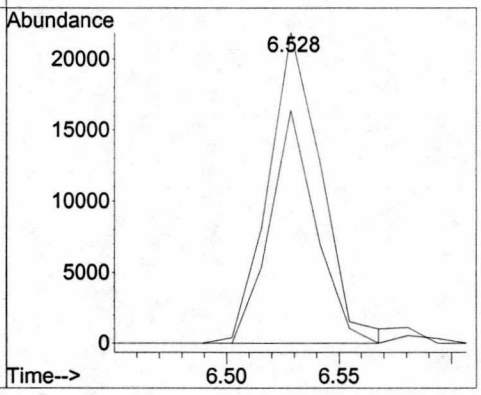


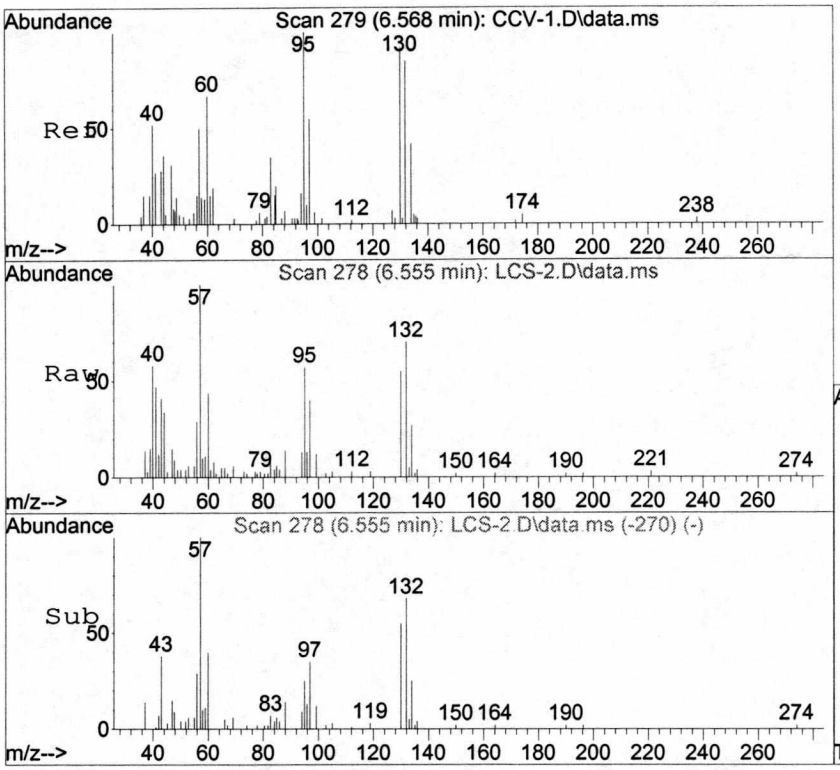
#47
Bromodichloromethane
Concen: 54.29 ppbv
RT: 6.528 min Scan# 276
Delta R.T. -0.011 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 83 Resp: 35692

Ion	Ratio	Lower	Upper
83	100		
85	65.3	44.0	66.0



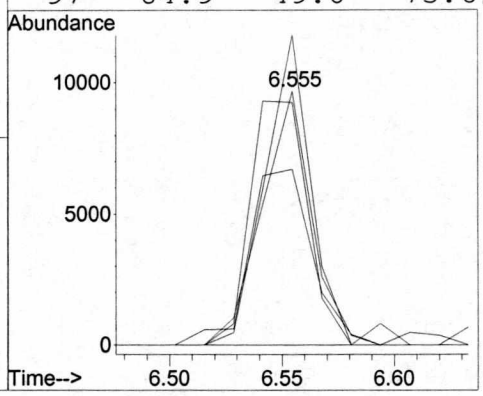


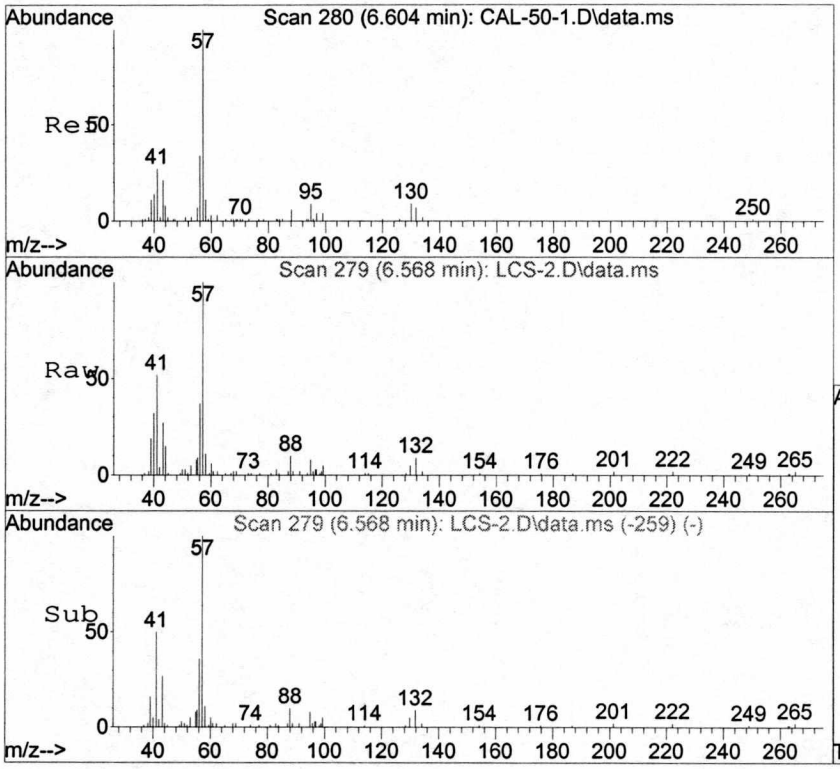


#48
Trichloroethene
Concen: 44.85 ppbv
RT: 6.555 min Scan# 278
Delta R.T. 0.002 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 95 Resp: 14904

Ion	Ratio	Lower	Upper
95	100		
130	111.0	84.2	126.2
132	111.6	59.5	89.3#
97	84.9	49.0	73.6#

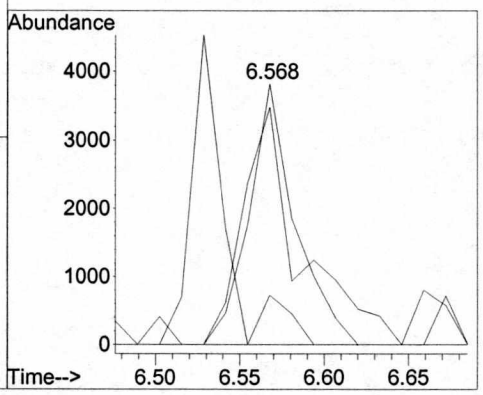


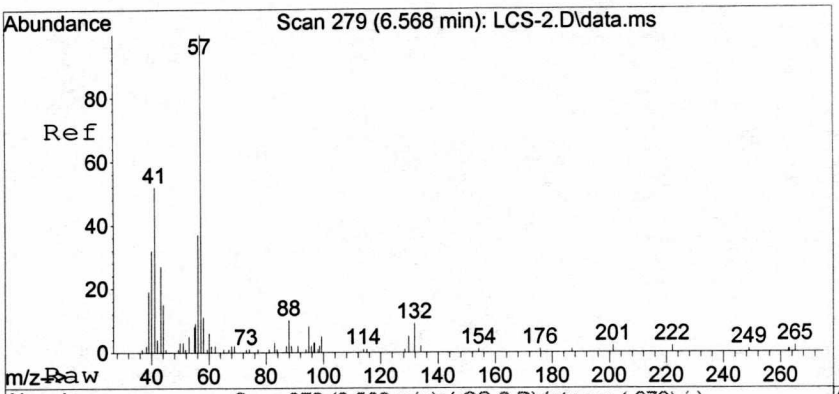


#49
1,4-Dioxane
Concen: 48.14 ppbv
RT: 6.568 min Scan# 279
Delta R.T. 0.015 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 58 Resp: 7271

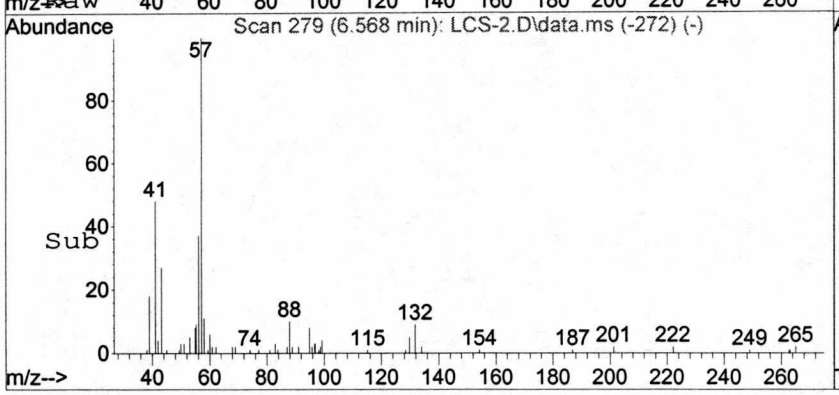
Ion	Ratio	Lower	Upper
58	100		
88	79.8	79.1	118.7
87	12.7	13.0	19.6#

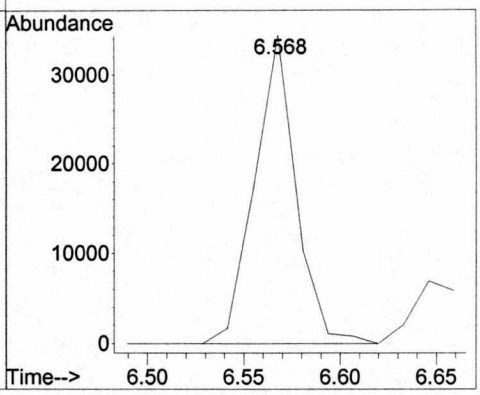


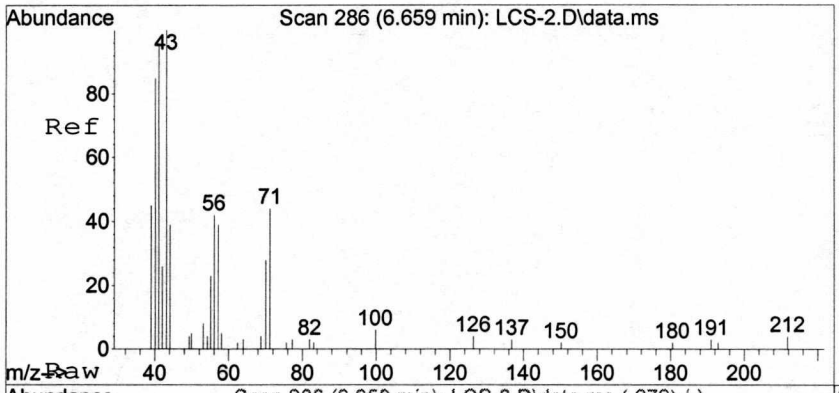


#50
2,2,4-Trimethylpentane
Concen: 41.77 ppbv
RT: 6.568 min Scan# 279
Delta R.T. -0.010 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 57 Resp: 50991



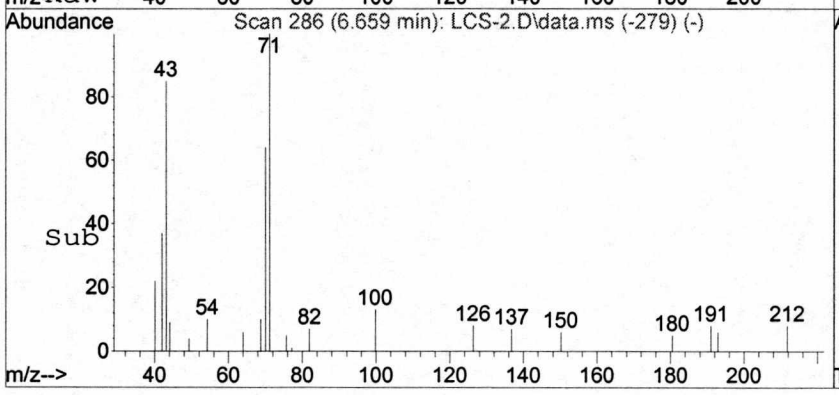


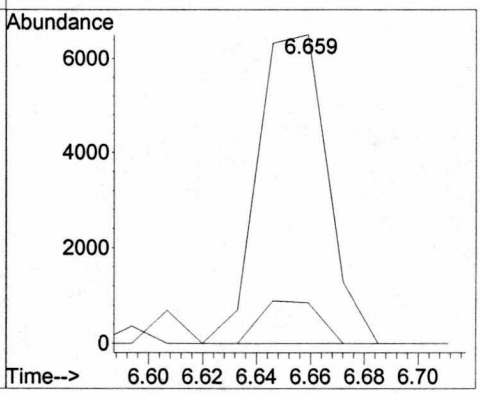


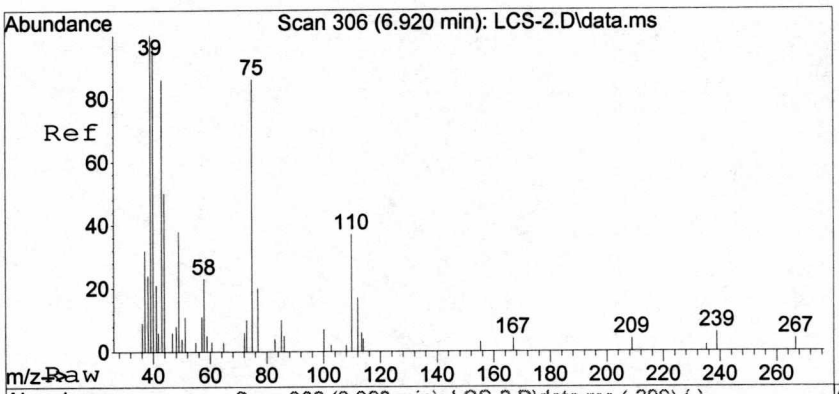
#51
n-Heptane
Concen: 58.00 ppbv
RT: 6.659 min Scan# 286
Delta R.T. -0.010 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 71 Resp: 11605

Ion	Ratio	Lower	Upper
71	100		
100	11.8	9.8	14.8



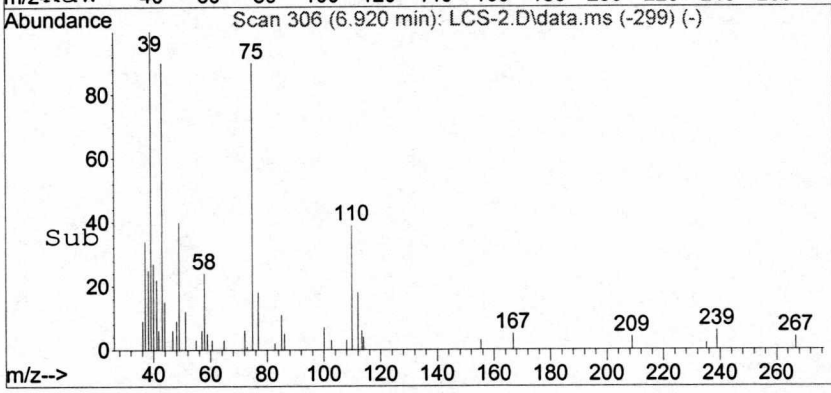


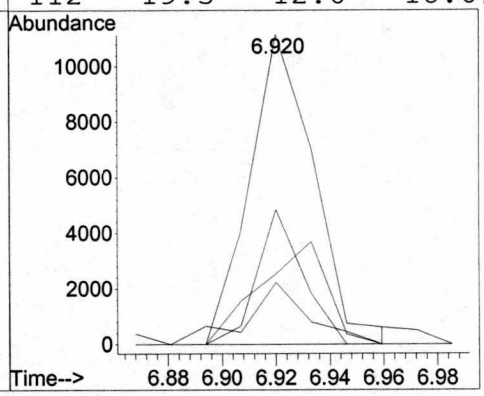


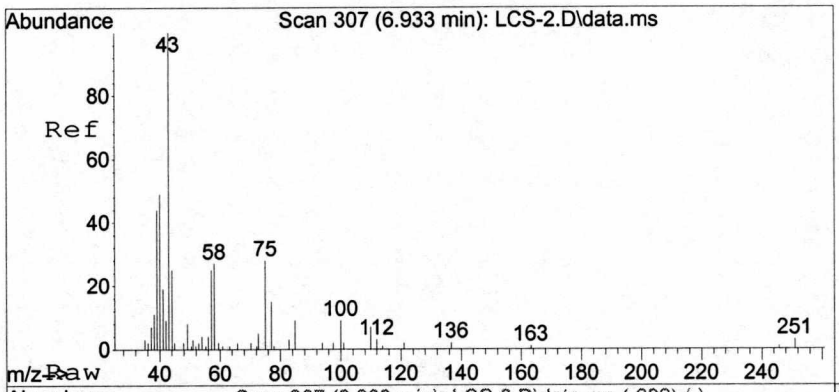
#52
cis-1,3-Dichloropropene
Concen: 43.04 ppbv
RT: 6.920 min Scan# 306
Delta R.T. -0.010 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 75 Resp: 18517

Ion	Ratio	Lower	Upper
75	100		
110	31.0	17.1	25.7#
77	34.5	25.0	37.4
112	19.3	12.0	18.0#



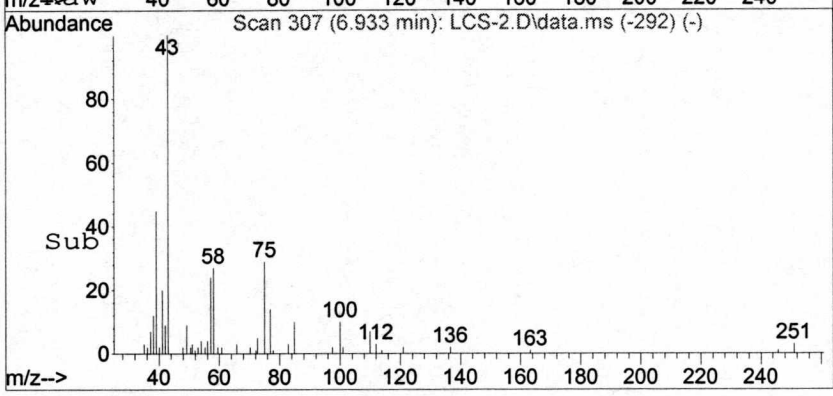


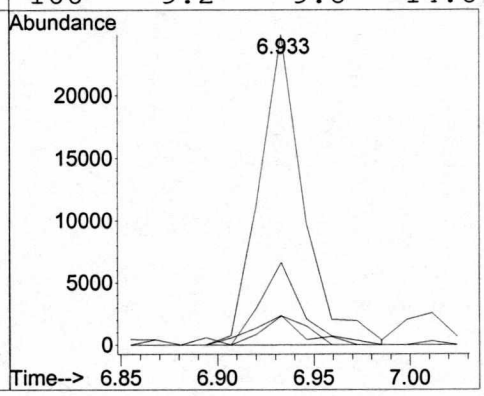


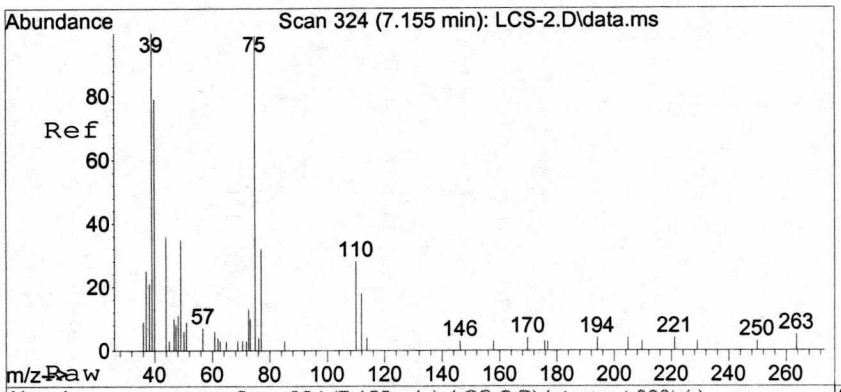
#53
4-Methyl-2-Pentanone
Concen: 49.86 ppbv
RT: 6.933 min Scan# 307
Delta R.T. -0.010 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 43 Resp: 39878

Ion	Ratio	Lower	Upper
43	100		
58	24.9	26.1	39.1#
85	10.5	7.8	11.8
100	9.2	9.8	14.8#



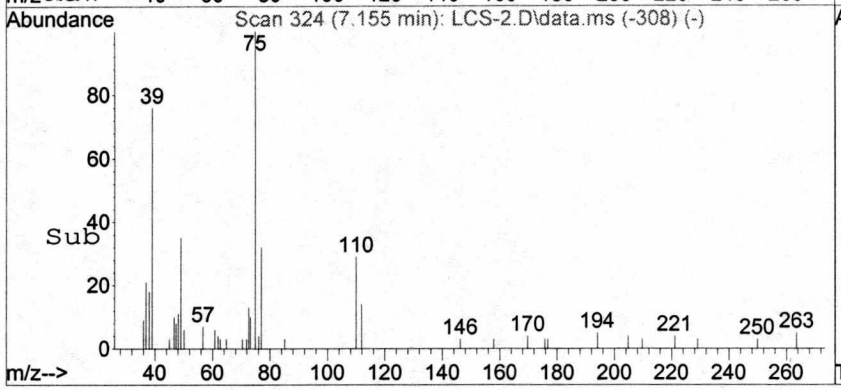


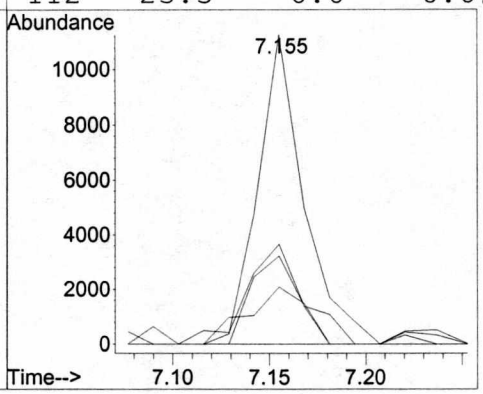


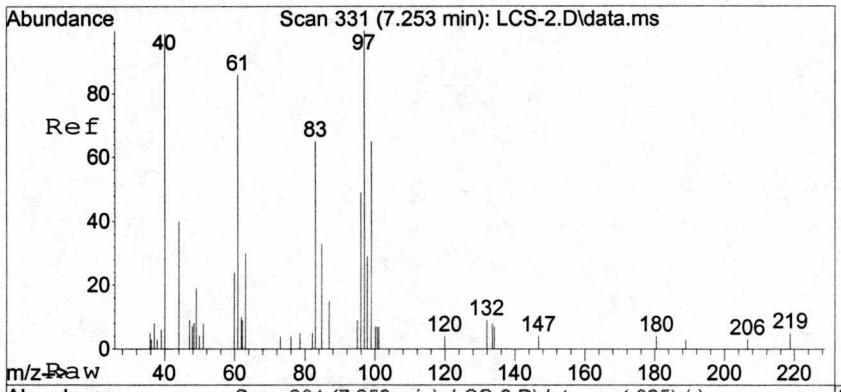
#54
trans-1,3-Dichloropene
Concen: 40.46 ppbv
RT: 7.155 min Scan# 324
Delta R.T. 0.012 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 75 Resp: 18692

Ion	Ratio	Lower	Upper
75	100		
110	34.1	18.5	27.7#
77	35.7	44.1	66.1#
112	23.3	0.0	0.0#



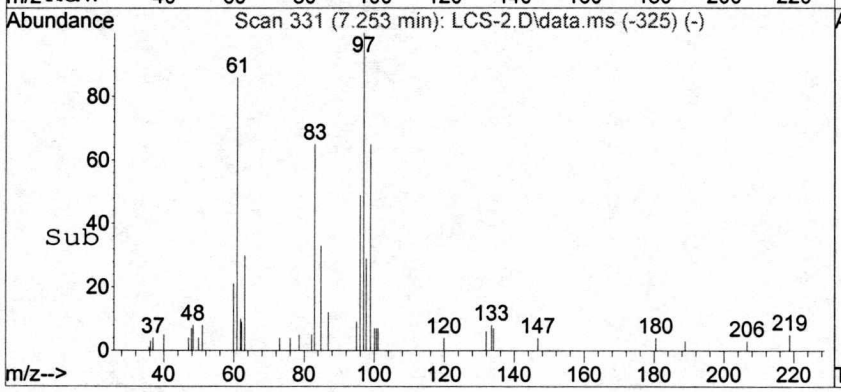


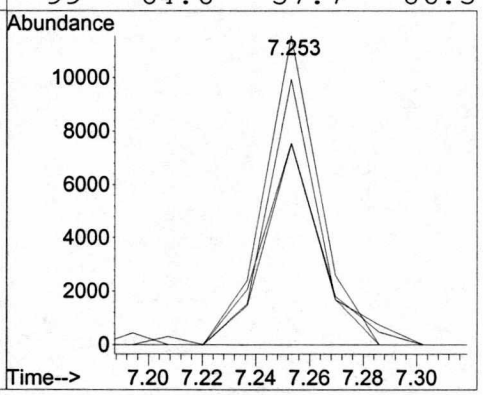


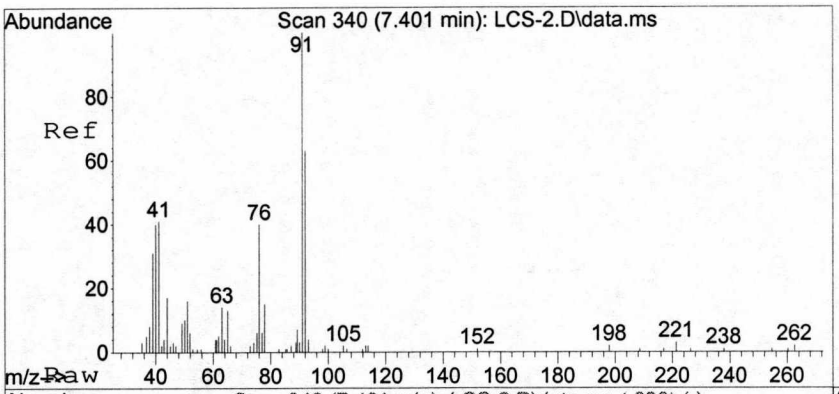
#55
1,1,2-Trichloroethane
Concen: 58.36 ppbv
RT: 7.253 min Scan# 331
Delta R.T. -0.016 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 97 Resp: 16314

Ion	Ratio	Lower	Upper
97	100		
83	71.8	48.6	73.0
61	83.8	52.6	78.8#
99	64.6	57.7	86.5



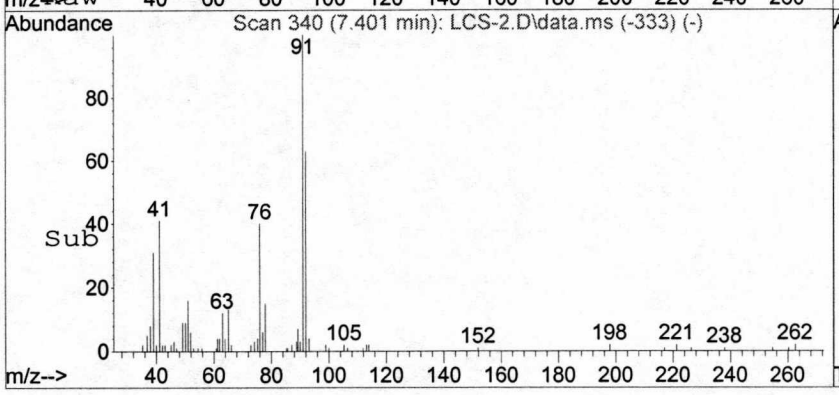


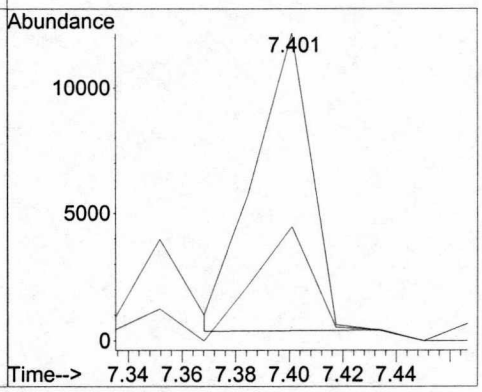


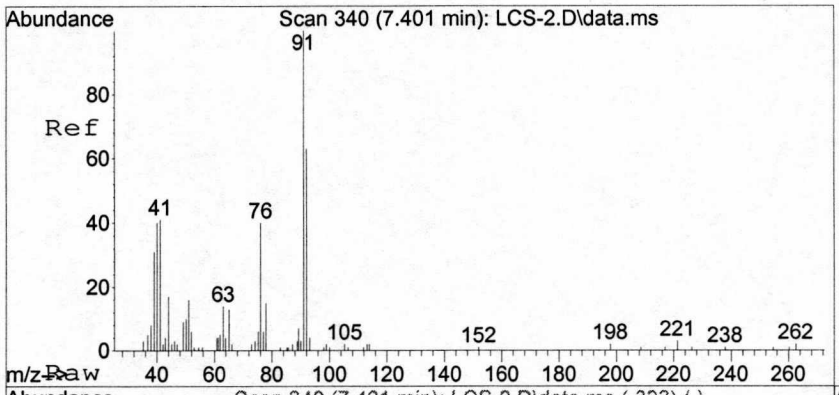
#57
1,3 Dichloropropane
Concen: 44.77 ppbv
RT: 7.401 min Scan# 340
Delta R.T. 0.001 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 76 Resp: 17125

Ion	Ratio	Lower	Upper
76	100		
78	43.6	31.3	46.9



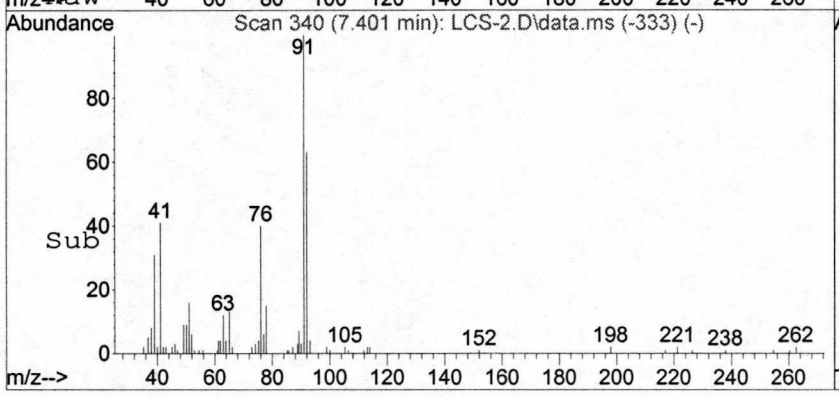


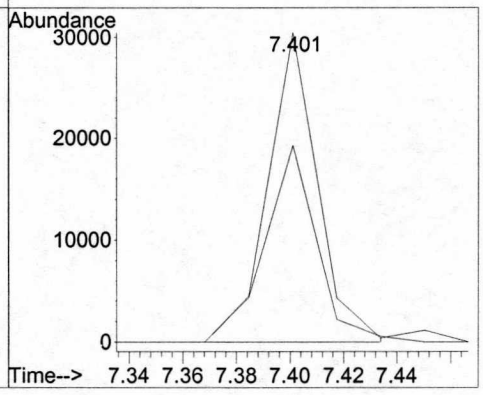


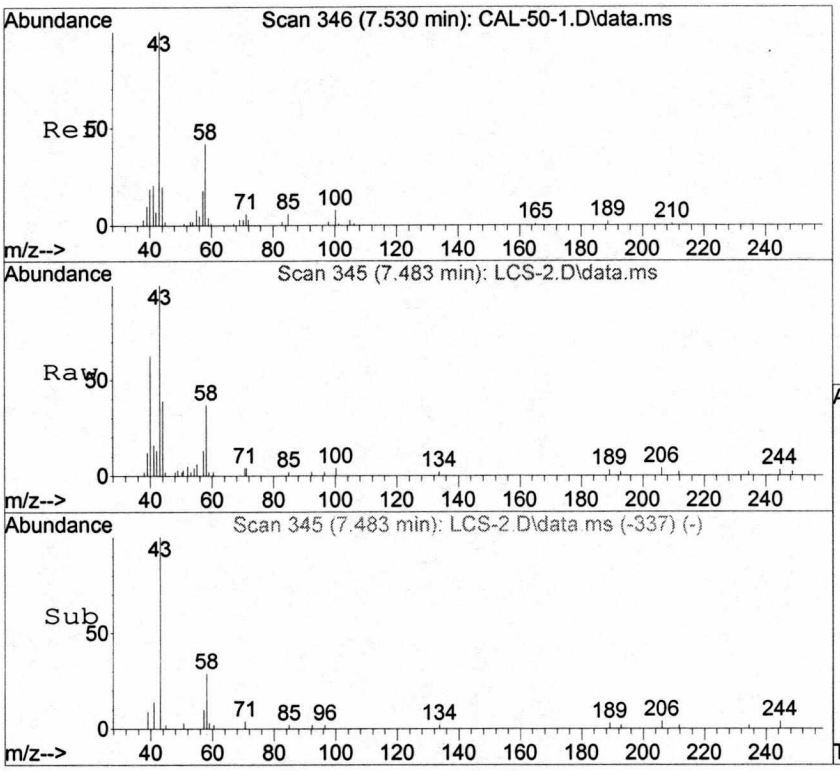
#58
Toluene
Concen: 44.20 ppbv
RT: 7.401 min Scan# 340
Delta R.T. 0.001 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 91 Resp: 39106

Ion	Ratio	Lower	Upper
91	100		
92	66.6	49.9	74.9



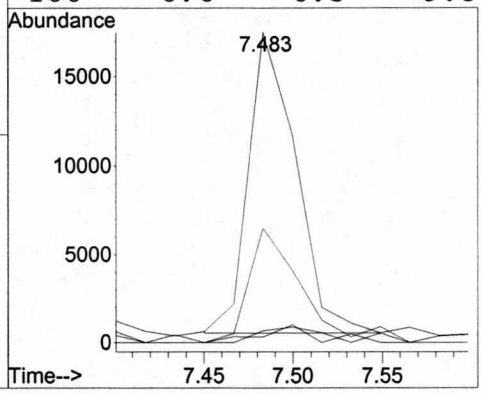


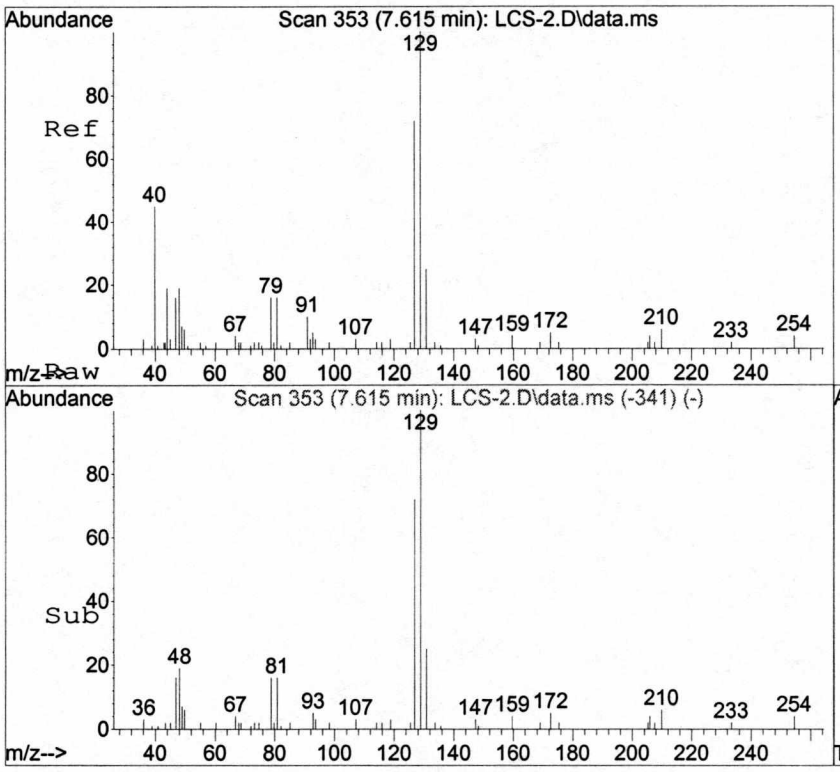


#59
2-Hexanone
Concen: 44.64 ppbv
RT: 7.483 min Scan# 345
Delta R.T. 0.001 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 43 Resp: 31348

Ion	Ratio	Lower	Upper
43	100		
58	39.9	42.2	63.4#
85	5.2	3.3	4.9#
100	6.6	6.3	9.5

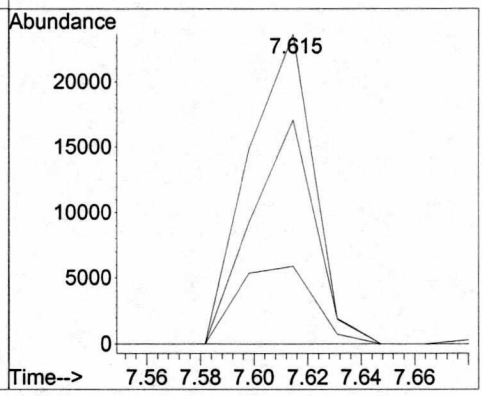


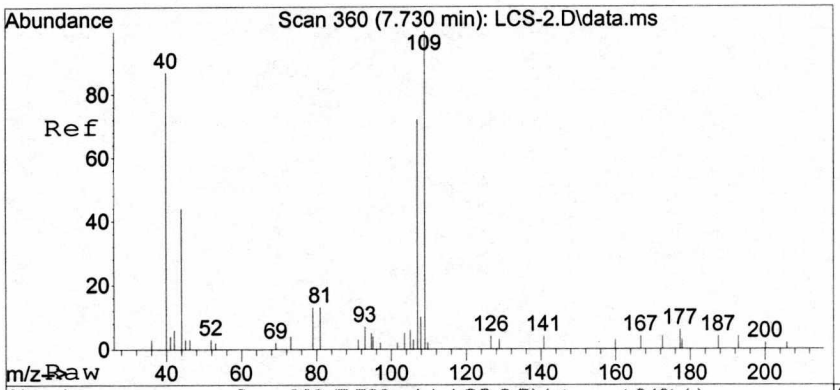


#60
Dibromochloromethane
Concen: 55.95 ppbv
RT: 7.615 min Scan# 353
Delta R.T. 0.002 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:129 Resp: 39774

Ion	Ratio	Lower	Upper
129	100		
127	70.0	70.1	105.1#
131	29.7	23.0	34.6

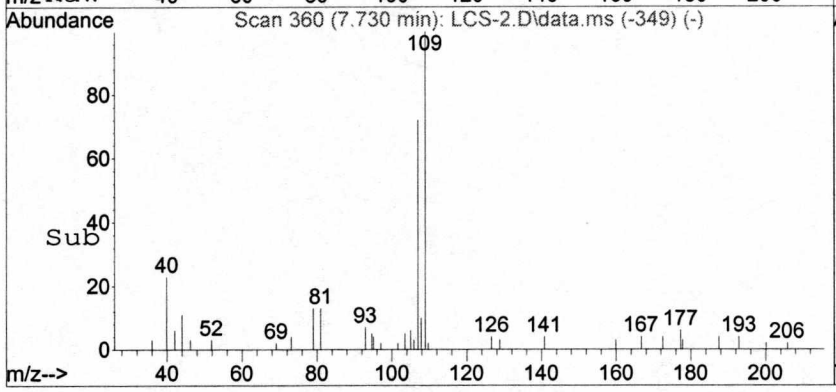


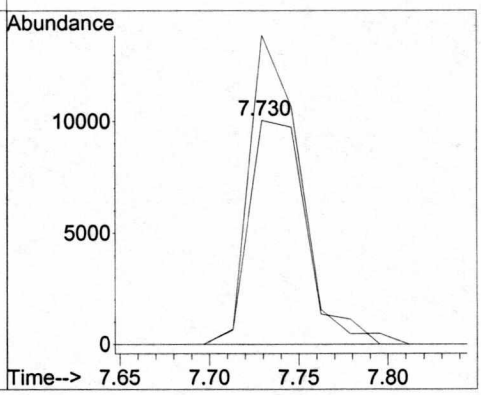


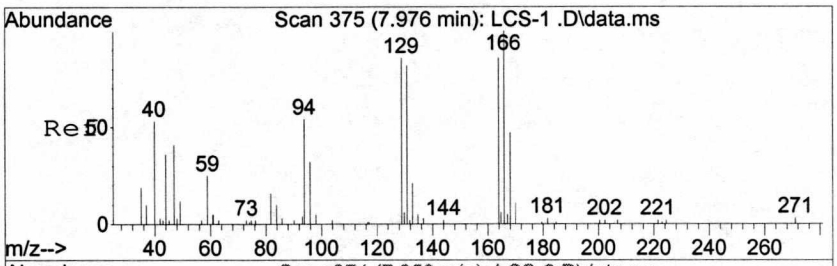
#61
1,2-Dibromoethane
Concen: 46.98 ppbv
RT: 7.730 min Scan# 360
Delta R.T. -0.015 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

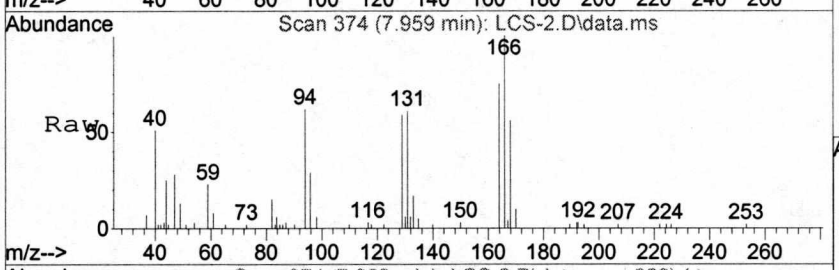
Tgt Ion:107 Resp: 22624

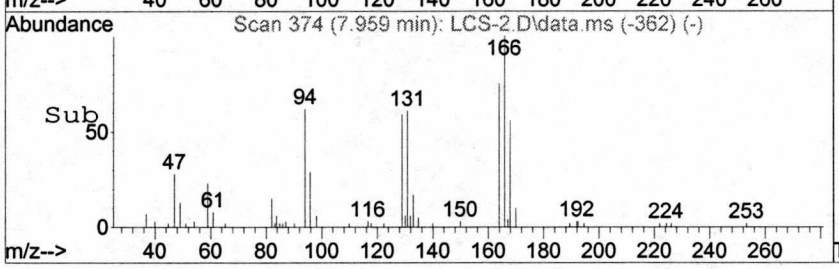
Ion	Ratio	Lower	Upper
107	100		
109	118.7	71.6	107.4#







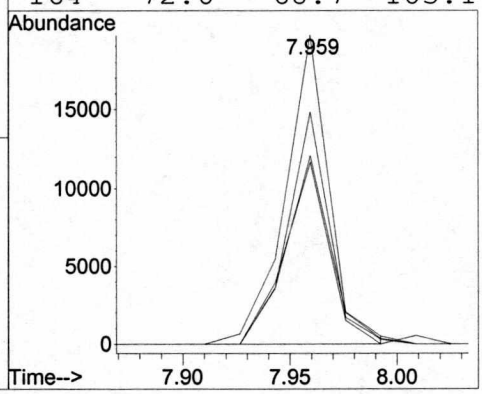


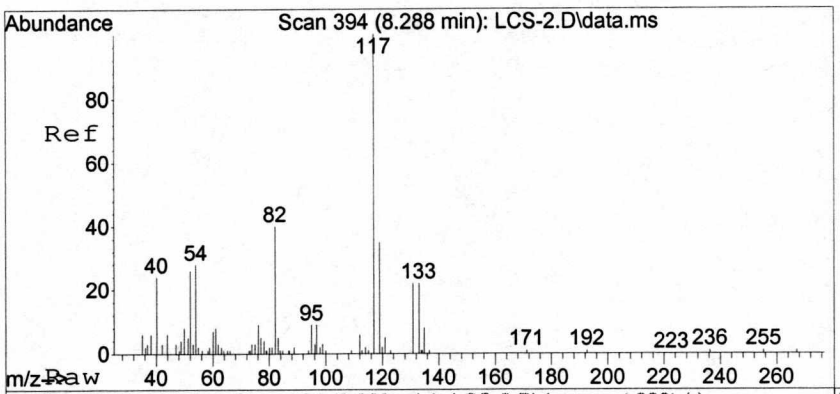


#62
Tetrachloroethene
Concen: 58.79 ppbv
RT: 7.959 min Scan# 374
Delta R.T. 0.002 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:166 Resp: 27969

Ion	Ratio	Lower	Upper
166	100		
131	63.7	65.7	98.5#
129	60.4	68.8	103.2#
164	72.0	68.7	103.1

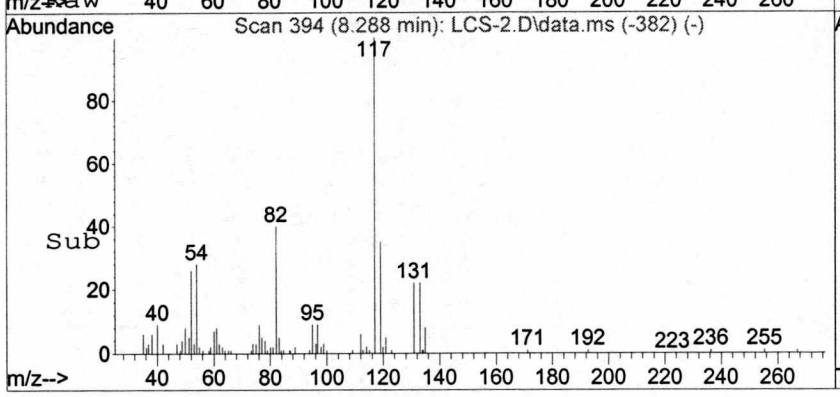


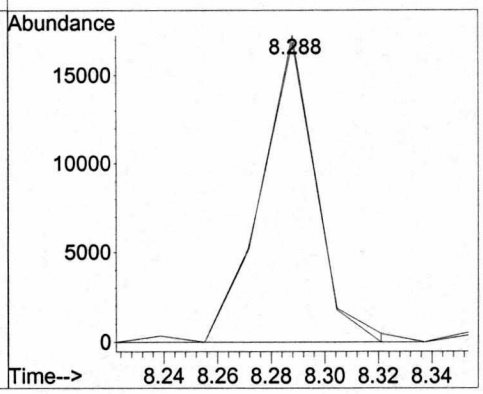


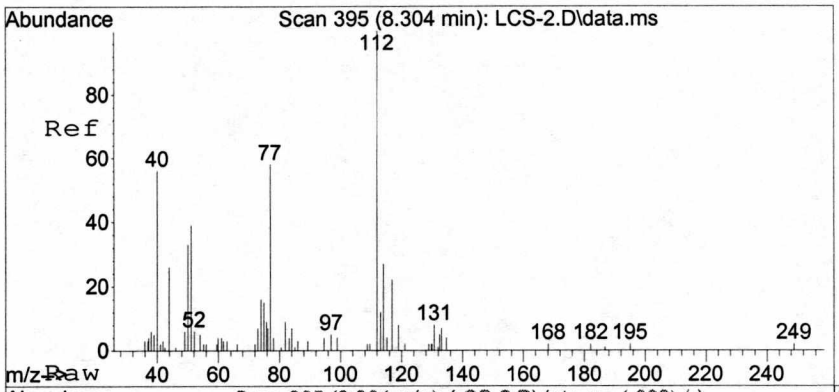
#64
1,1,1,2 Tetrachloroethane
Concen: 56.70 ppbv
RT: 8.288 min Scan# 394
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:131 Resp: 24073

Ion	Ratio	Lower	Upper
131	100		
133	99.0	82.9	124.3



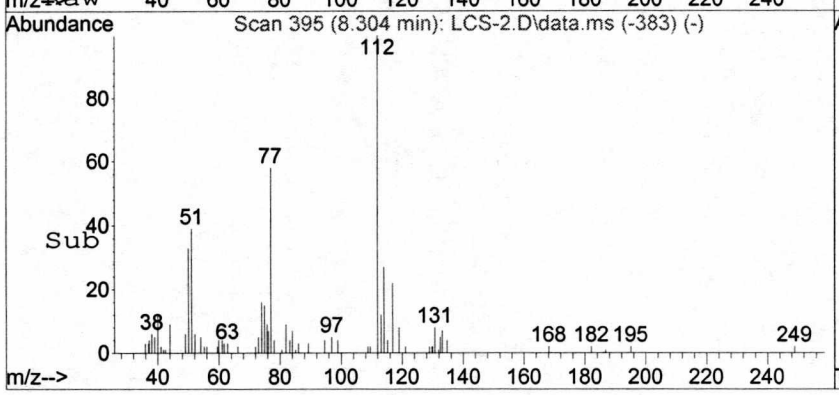


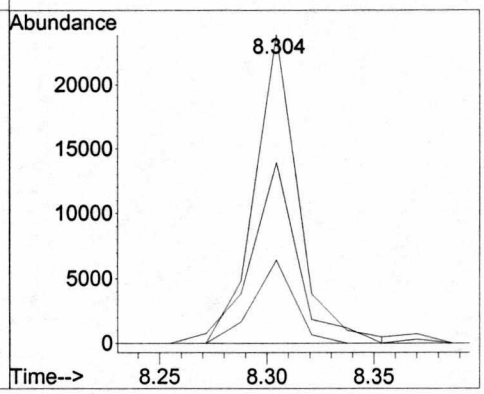


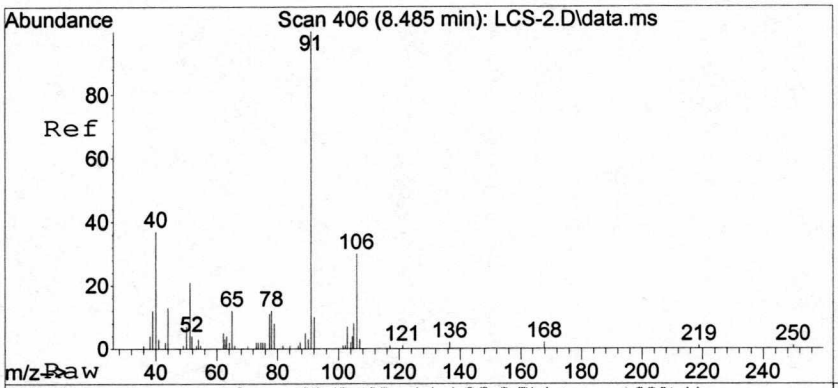
#65
Chlorobenzene
Concen: 52.12 ppbv
RT: 8.304 min Scan# 395
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:112 Resp: 33579

Ion	Ratio	Lower	Upper
112	100		
114	25.6	24.8	37.2
77	63.3	54.9	82.3



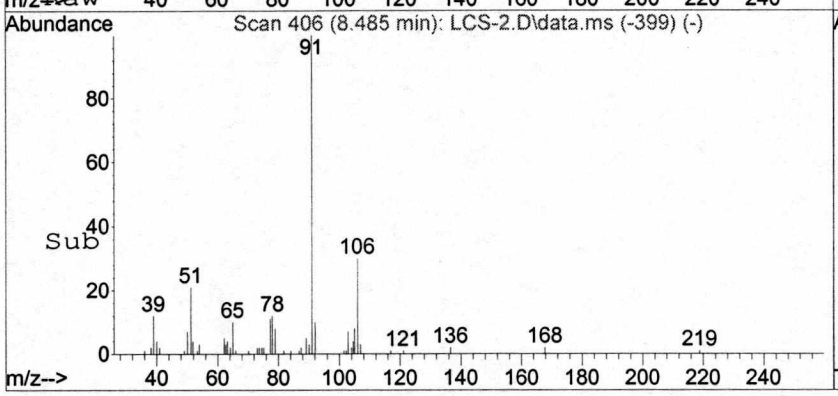


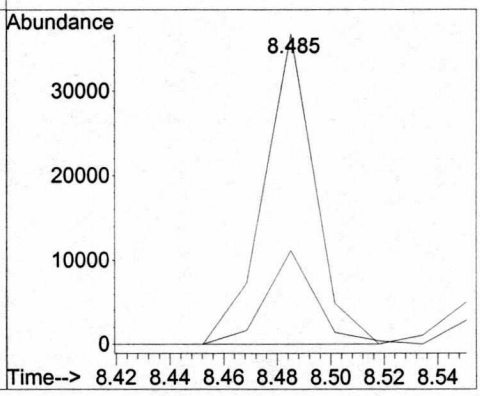


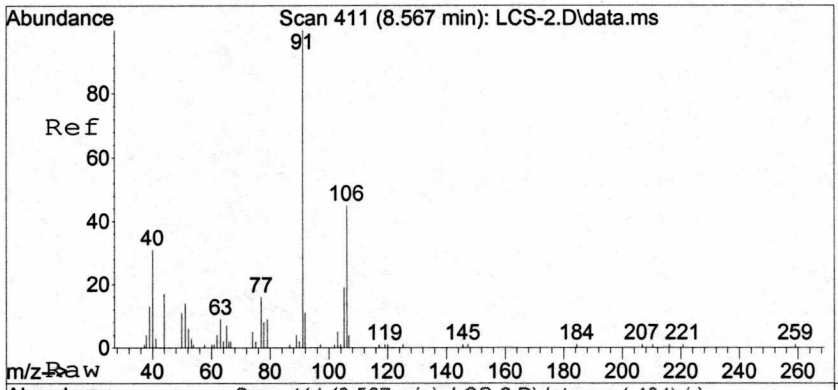
#66
Ethylbenzene
Concen: 42.09 ppbv
RT: 8.485 min Scan# 406
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 91 Resp: 48318

Ion	Ratio	Lower	Upper
91	100		
106	29.7	19.2	28.8#



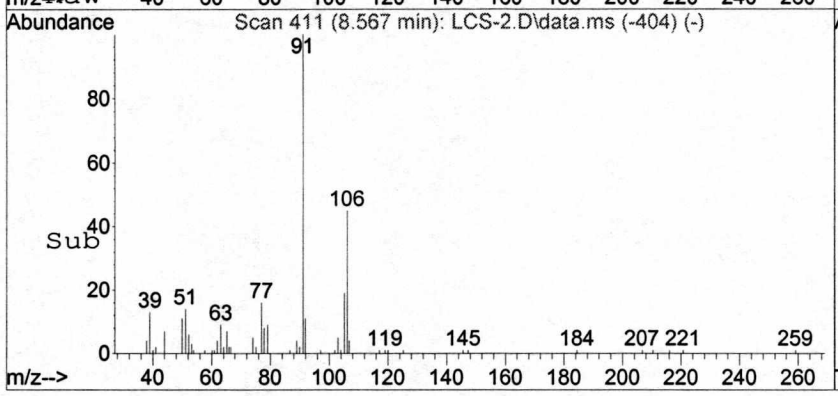


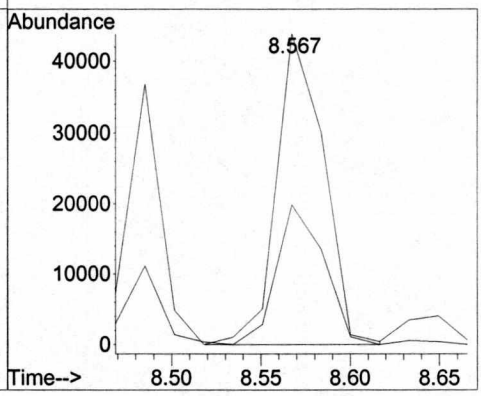


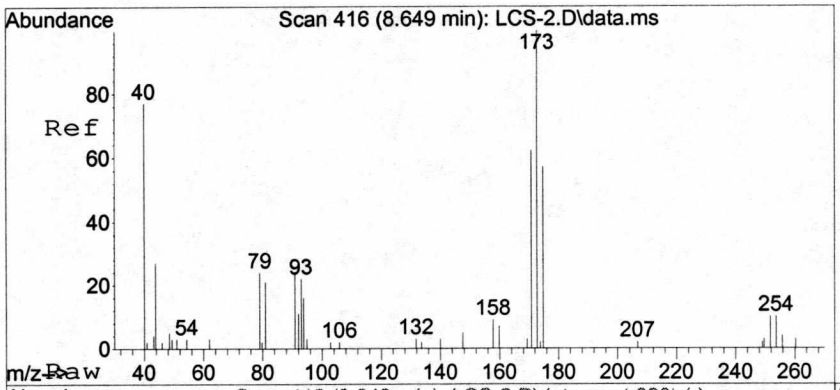
#67
m,p-xylene
Concen: 90.66 ppbv
RT: 8.567 min Scan# 411
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 91 Resp: 80631

Ion	Ratio	Lower	Upper
91	100		
106	45.6	32.6	49.0



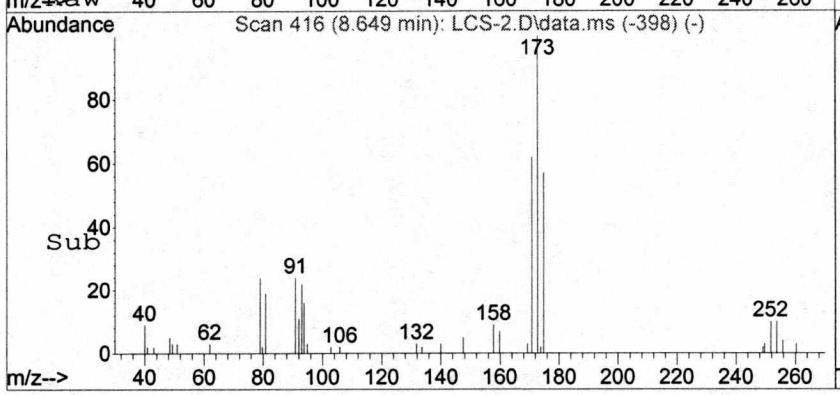


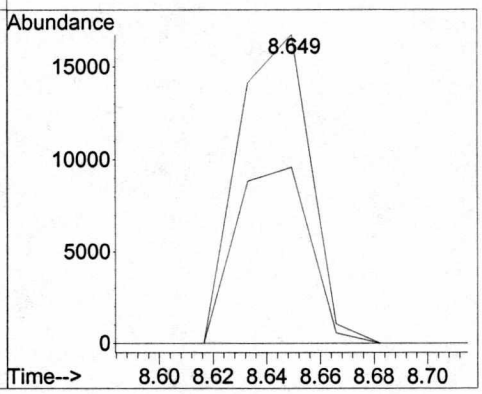


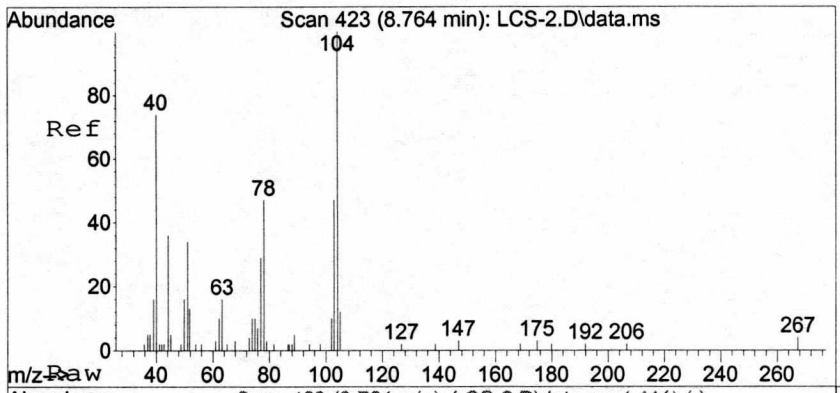
#68
Bromoform
Concen: 46.25 ppbv
RT: 8.649 min Scan# 416
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:173 Resp: 31488

Ion	Ratio	Lower	Upper
173	100		
175	59.4	31.1	71.1



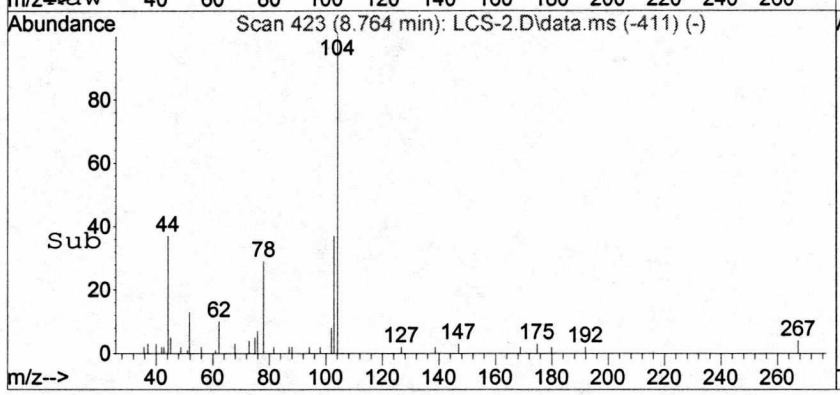


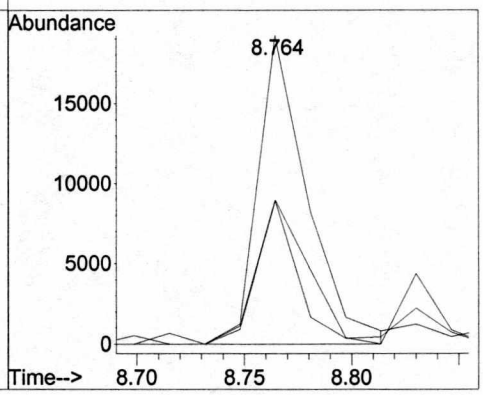


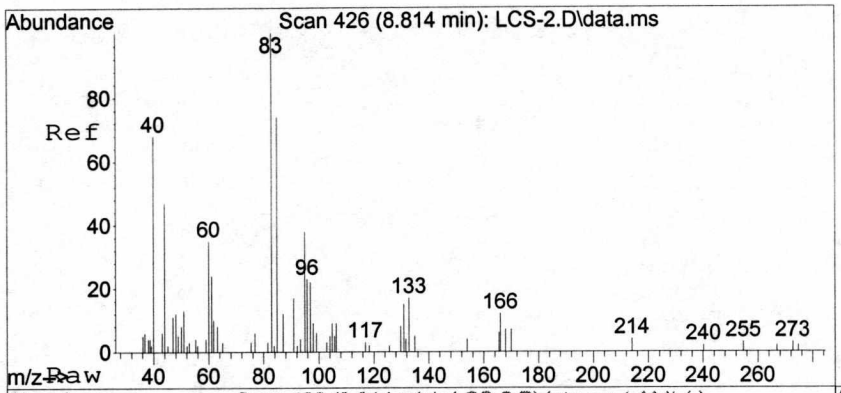
#69
Styrene
Concen: 47.03 ppbv
RT: 8.764 min Scan# 423
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:104 Resp: 30705

Ion	Ratio	Lower	Upper
104	100		
78	48.5	41.0	61.6
103	38.1	36.0	54.0



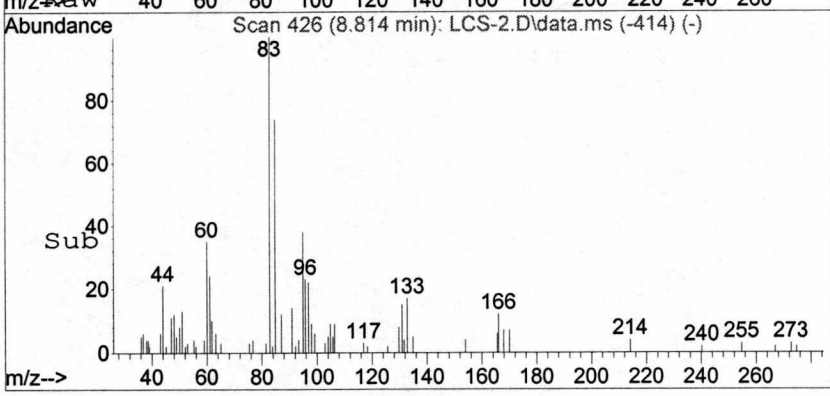


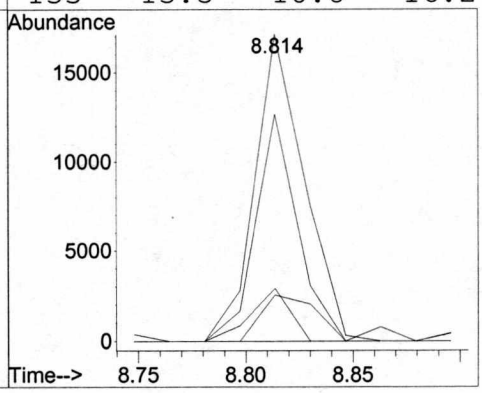


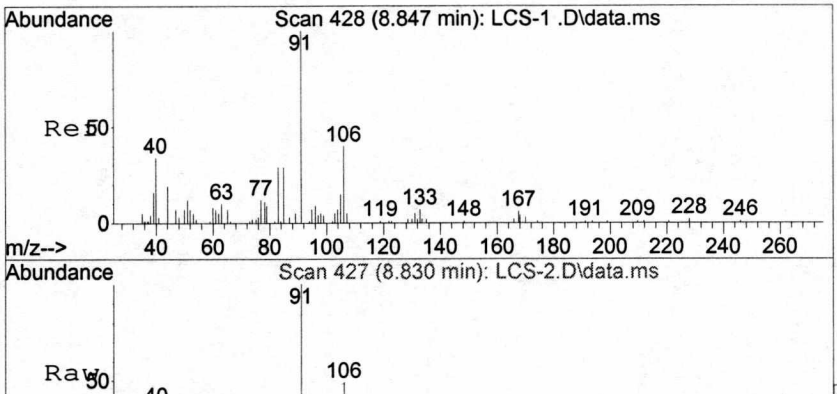
#70
1,1,2,2-Tetrachloroethane
Concen: 54.23 ppbv
RT: 8.814 min Scan# 426
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 83 Resp: 27380

Ion	Ratio	Lower	Upper
83	100		
85	62.6	73.8	110.6#
131	16.5	8.8	13.2#
133	13.5	10.8	16.2



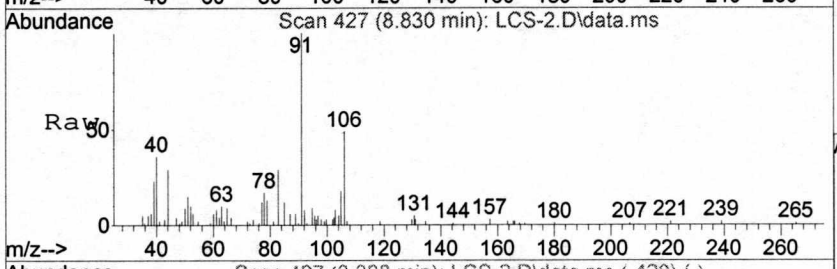


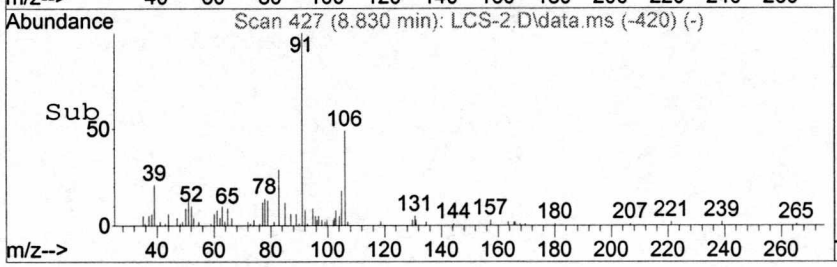


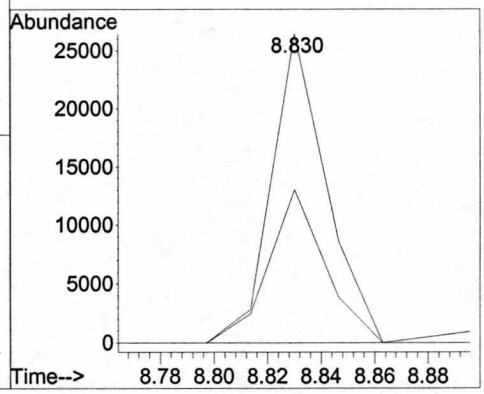
#71
o-xylene
Concen: 40.87 ppbv
RT: 8.830 min Scan# 427
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

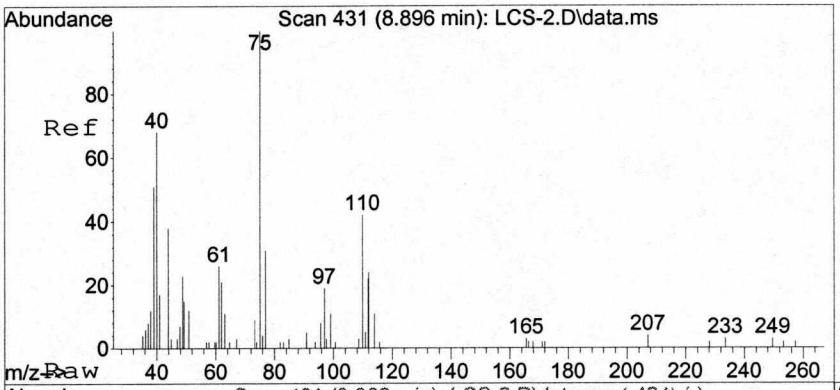
Tgt Ion: 91 Resp: 37372

Ion	Ratio	Lower	Upper
91	100		
106	51.0	27.1	40.7#





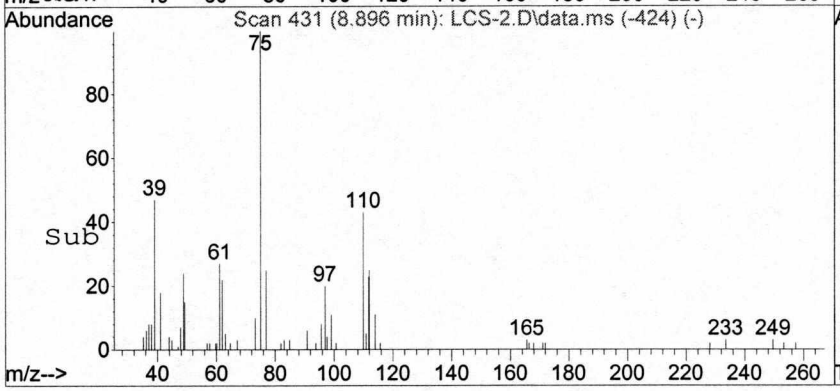


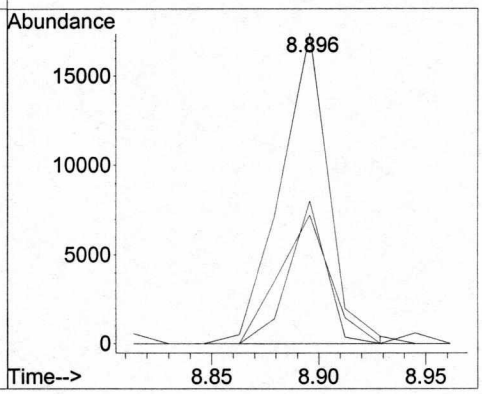


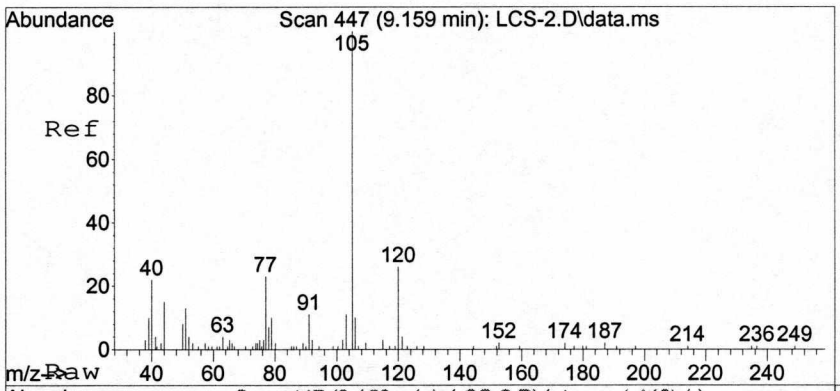
#72
1,2,3-Trichloropropane
Concen: 59.06 ppbv
RT: 8.896 min Scan# 431
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 75 Resp: 27137

Ion	Ratio	Lower	Upper
75	100		
110	44.4	22.6	34.0#
112	35.6	20.7	31.1#



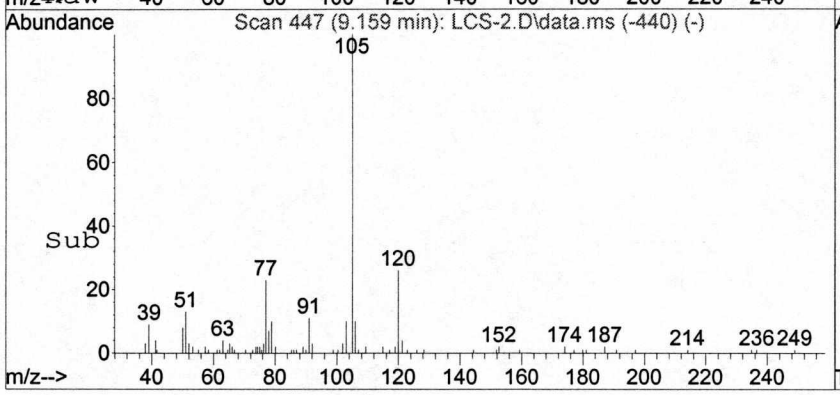


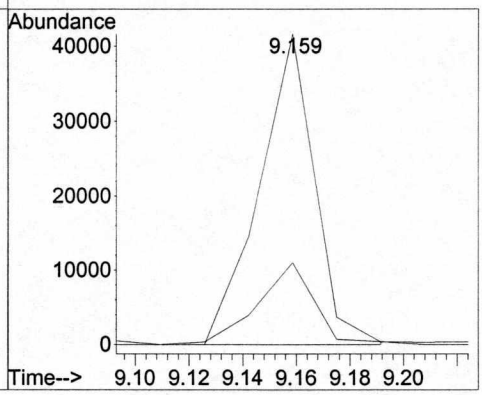


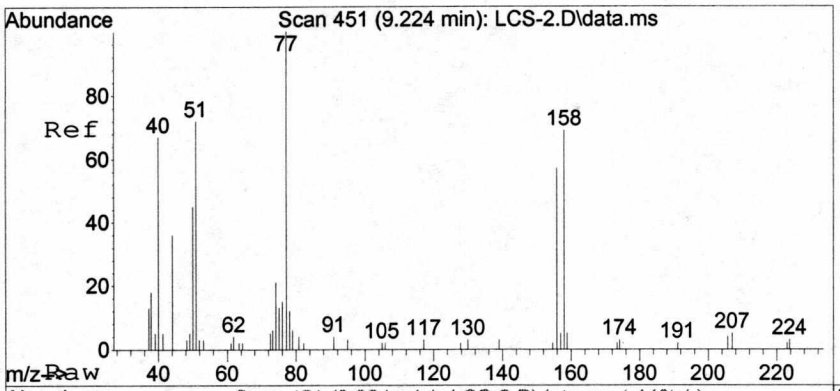
#73
Isopropylbenzene
Concen: 47.97 ppbv
RT: 9.159 min Scan# 447
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:105 Resp: 59297

Ion	Ratio	Lower	Upper
105	100		
120	27.1	25.3	37.9



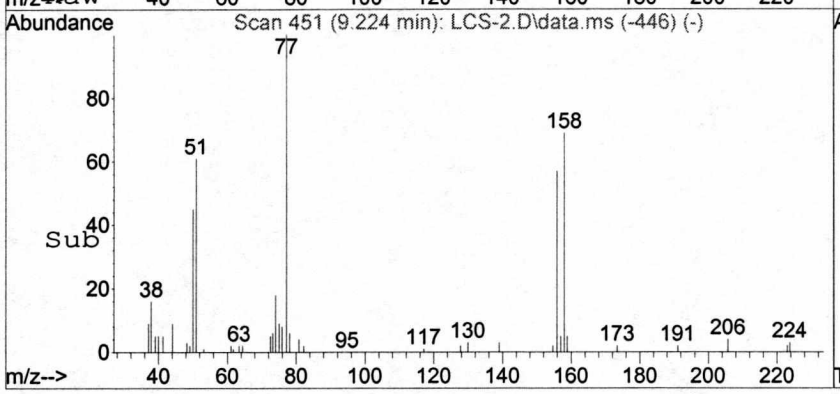


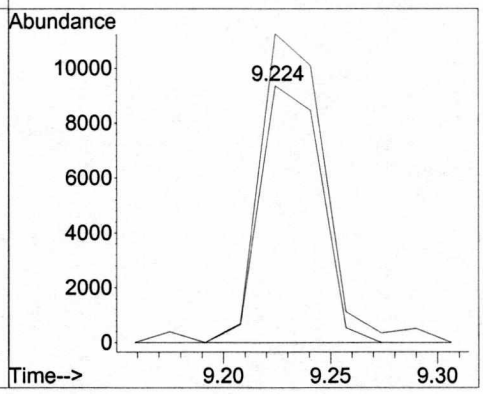


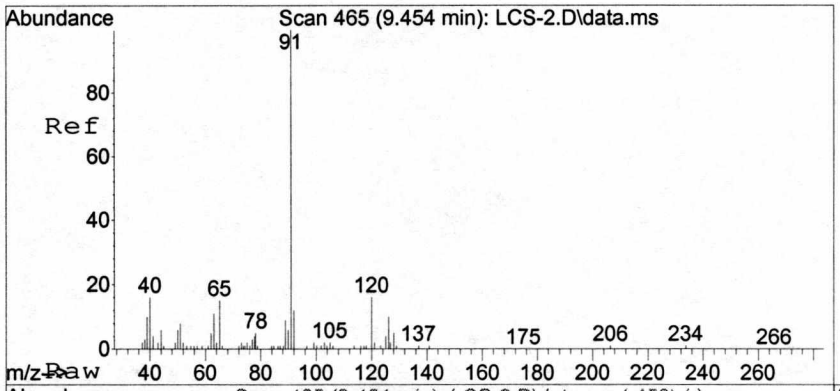
#75
Bromobenzene
Concen: 40.22 ppbv
RT: 9.224 min Scan# 451
Delta R.T. -0.016 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:156 Resp: 18741

Ion	Ratio	Lower	Upper
156	100		
158	123.6	60.8	91.2#



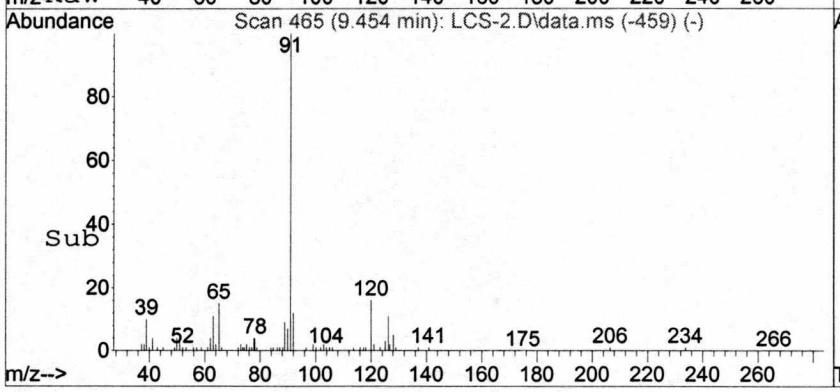


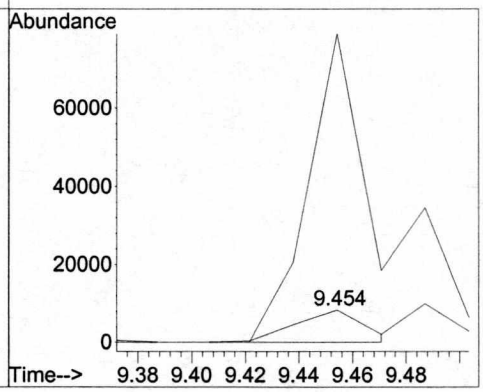


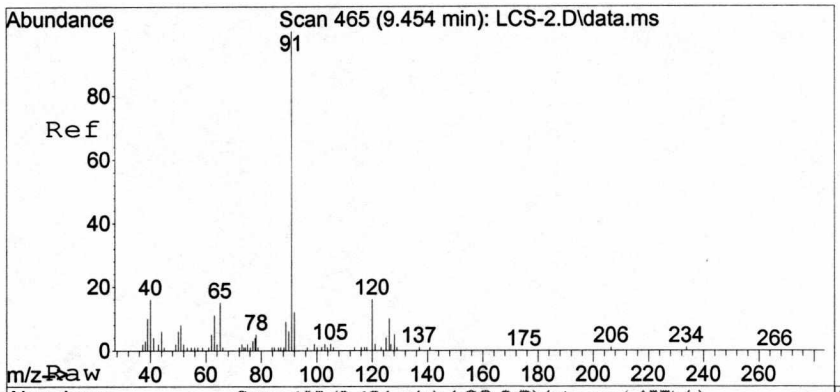
#76
2-Chlorotoluene
Concen: 45.38 ppbv
RT: 9.454 min Scan# 465
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:126 Resp: 14993

Ion	Ratio	Lower	Upper
126	100		
91	776.5	625.9	938.9



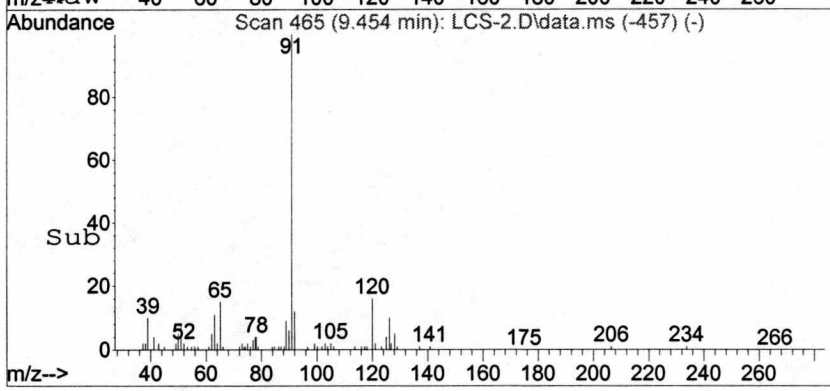


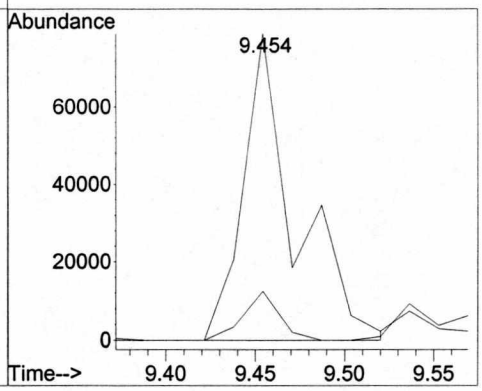


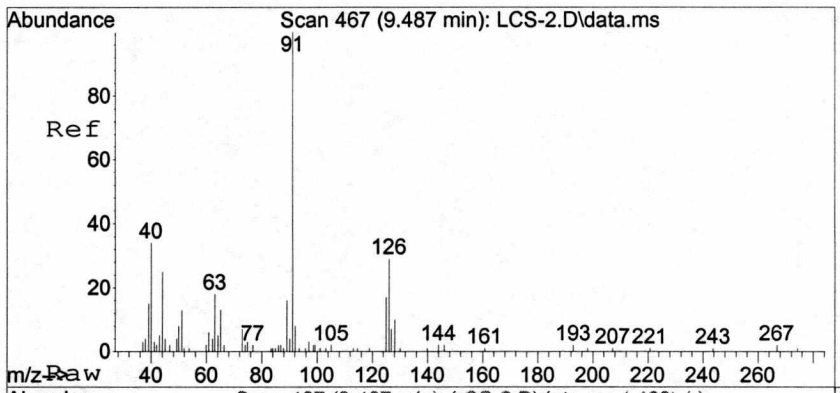
#77
n-Propylbenzene
Concen: 52.38 ppbv
RT: 9.454 min Scan# 465
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 91 Resp: 158915

Ion	Ratio	Lower	Upper
91	100		
120	11.0	12.0	18.0#



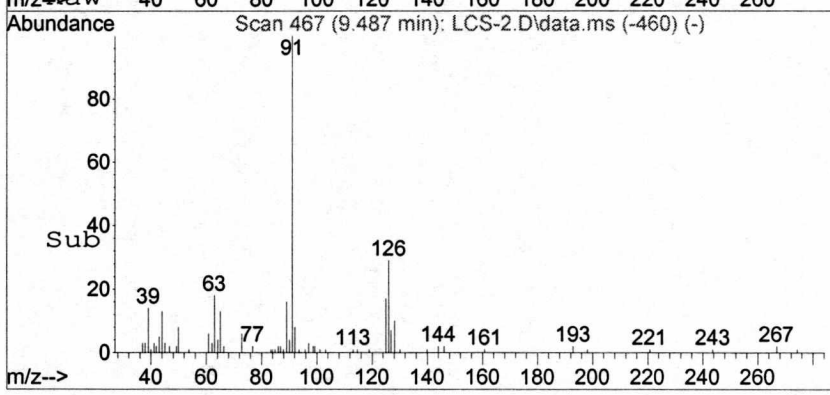


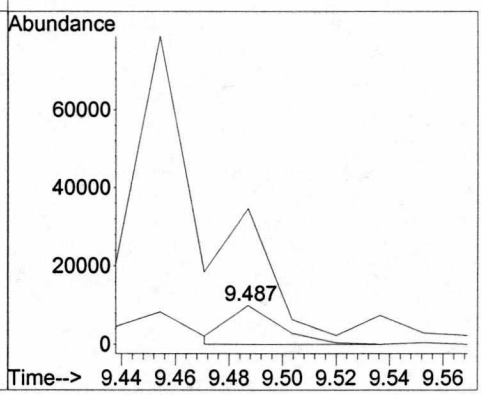


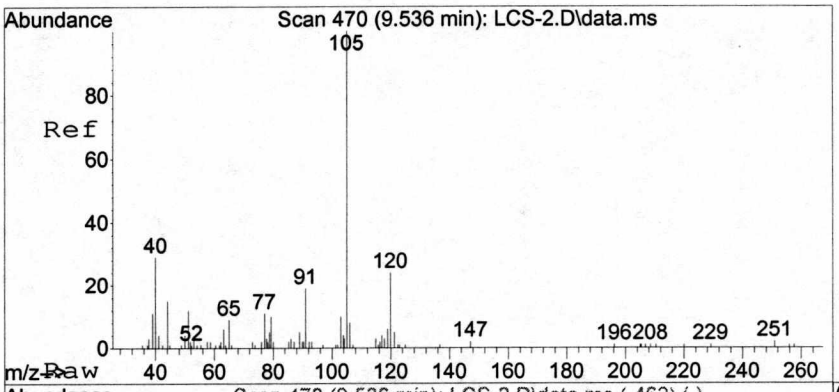
#78
4-Chlorotoluene
Concen: 50.87 ppbv
RT: 9.487 min Scan# 467
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:126 Resp: 12926

Ion	Ratio	Lower	Upper
126	100		
91	0.0	215.9	323.9#



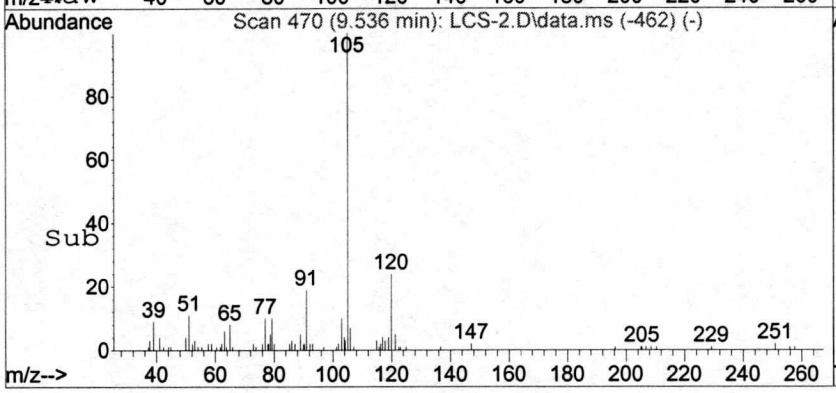


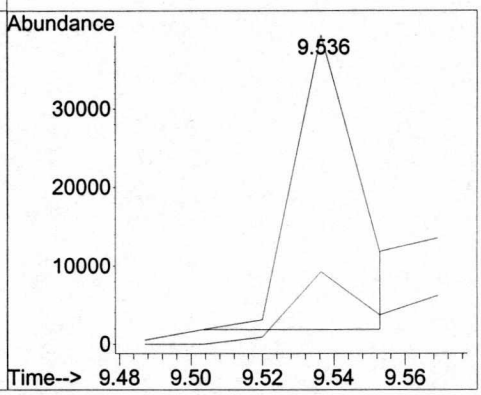


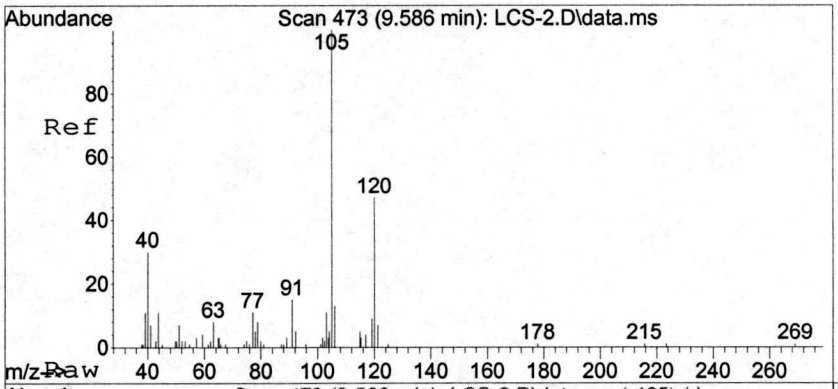
#79
4-Ethyltoluene
Concen: 40.38 ppbv
RT: 9.536 min Scan# 470
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:105 Resp: 48050

Ion	Ratio	Lower	Upper
105	100		
120	28.5	22.9	34.3



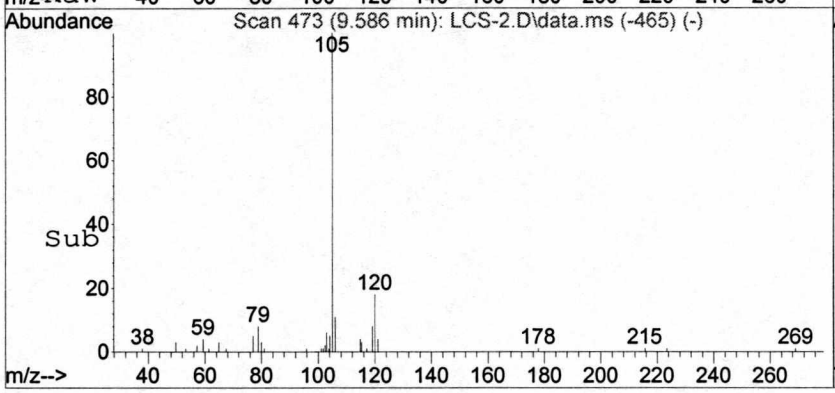


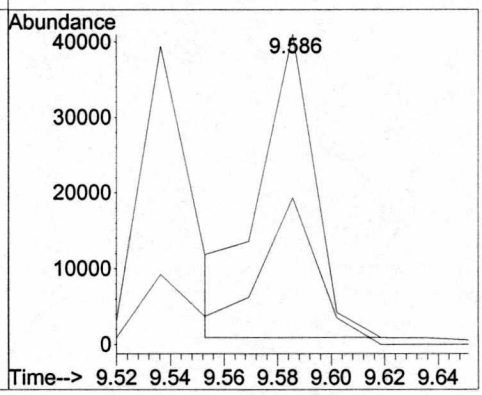


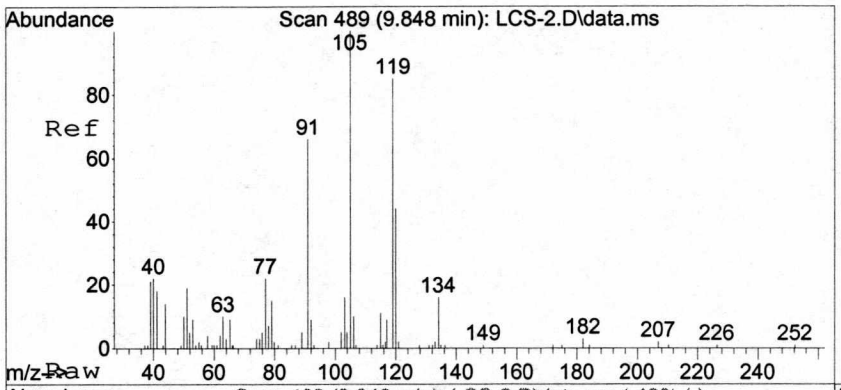
#80
1,3,5-Trimethylbenzene
Concen: 53.51 ppbv
RT: 9.586 min Scan# 473
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:105 Resp: 55299

Ion	Ratio	Lower	Upper
105	100		
120	51.8	40.8	61.2



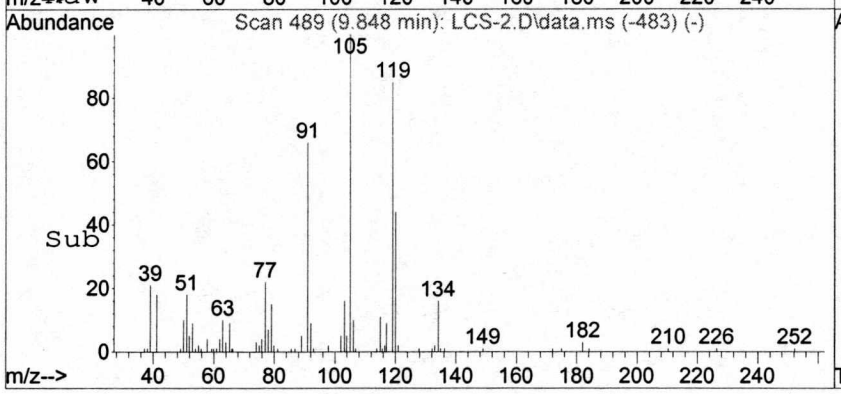


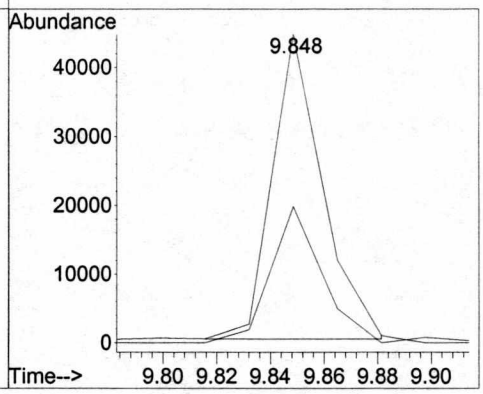


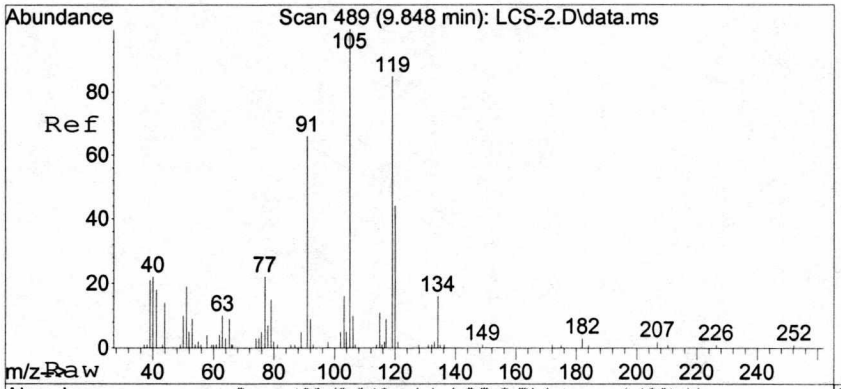
#81
1,2,4-Trimethylbenzene
Concen: 57.43 ppbv
RT: 9.848 min Scan# 489
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:105 Resp: 57524

Ion	Ratio	Lower	Upper
105	100		
120	45.8	37.0	55.4



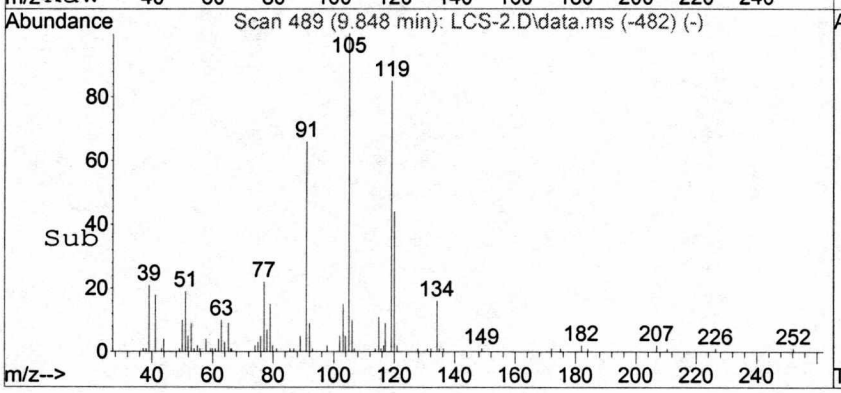


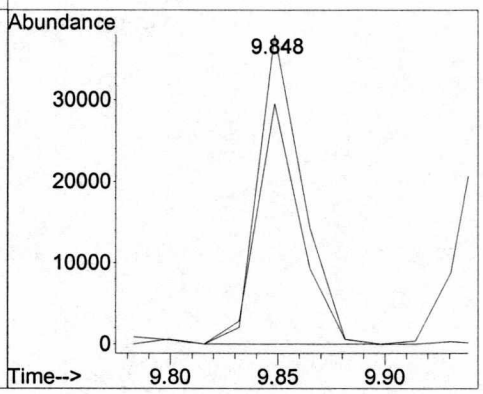


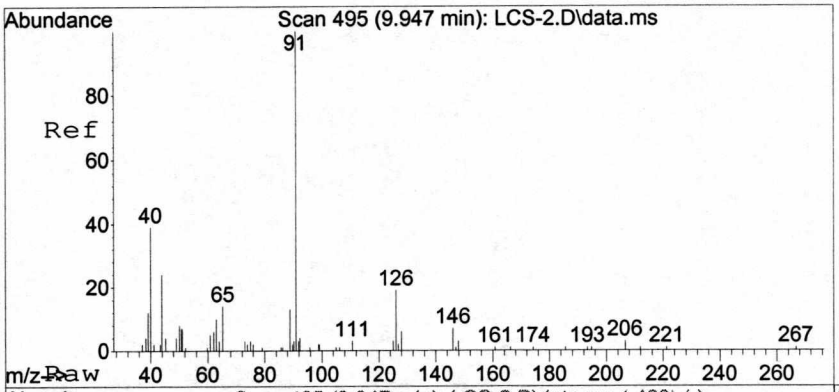
#82
tert-Butylbenzene
Concen: 47.53 ppbv
RT: 9.848 min Scan# 489
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:119 Resp: 54174

Ion	Ratio	Lower	Upper
119	100		
91	76.9	61.4	92.0



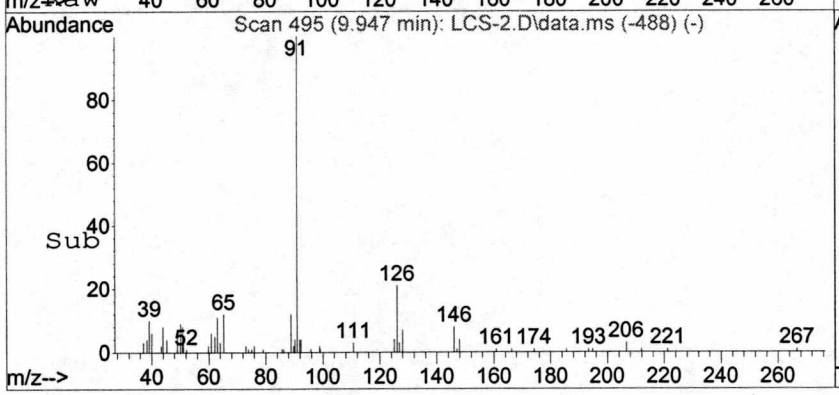


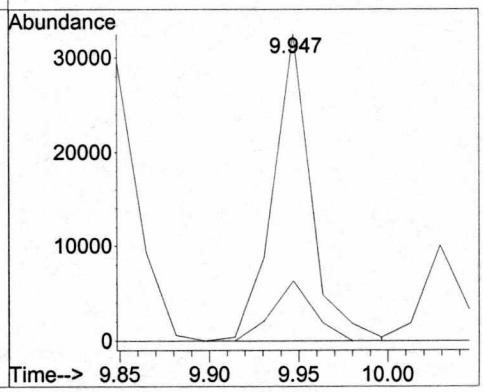


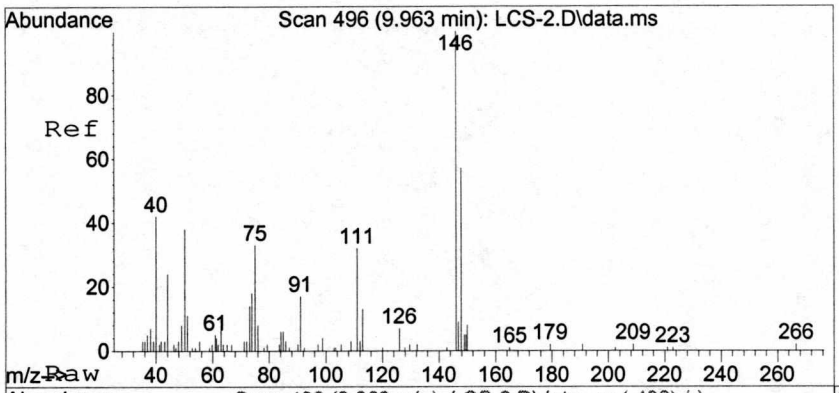
#83
Benzyl Chloride
Concen: 49.57 ppbv
RT: 9.947 min Scan# 495
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 91 Resp: 47939

Ion	Ratio	Lower	Upper
91	100		
126	21.1	16.3	24.5



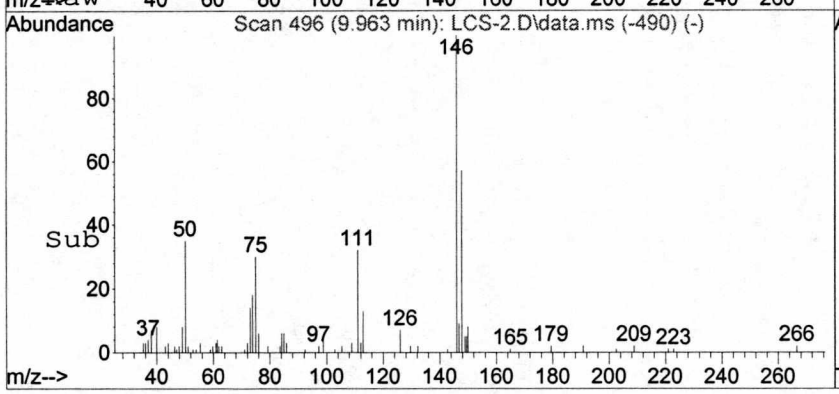


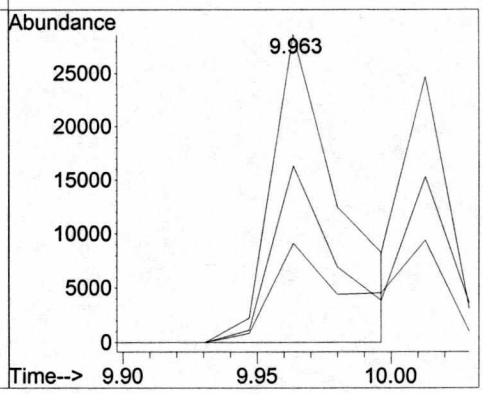


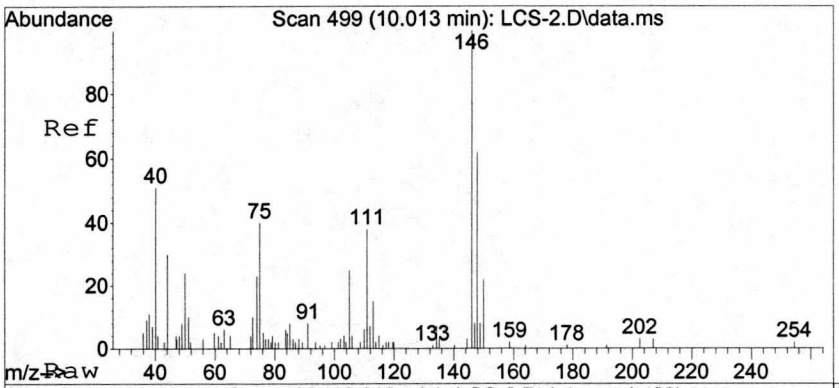
#84
1,3-Dichlorobenzene
Concen: 59.60 ppbv
RT: 9.963 min Scan# 496
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:146 Resp: 50873

Ion	Ratio	Lower	Upper
146	100		
148	54.7	50.0	75.0
111	27.8	31.4	47.0#



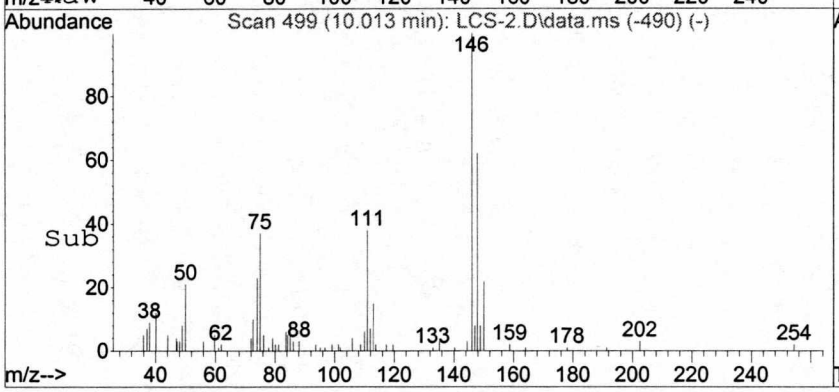


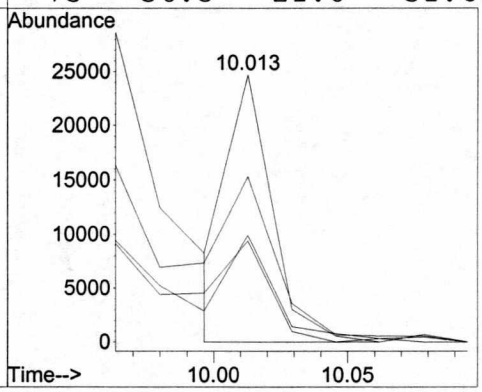


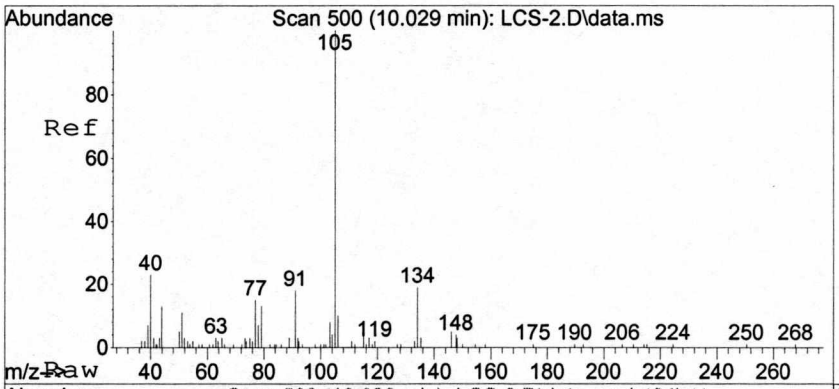
#85
1,4-Dichlorobenzene
Concen: 42.04 ppbv
RT: 10.013 min Scan# 499
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:146 Resp: 27849

Ion	Ratio	Lower	Upper
146	100		
148	90.3	59.2	88.8#
111	52.7	39.8	59.6
75	36.5	21.0	31.6#



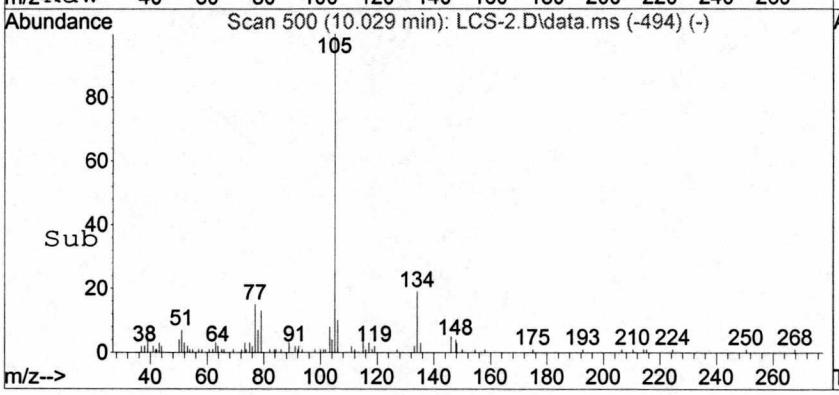


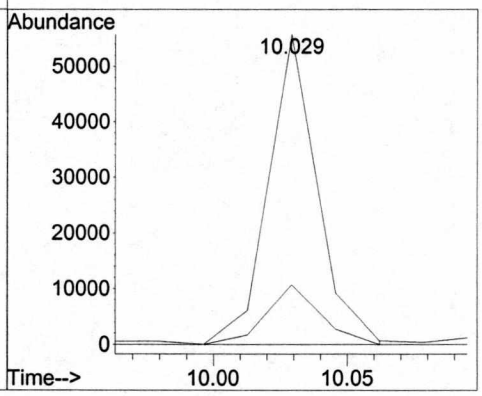


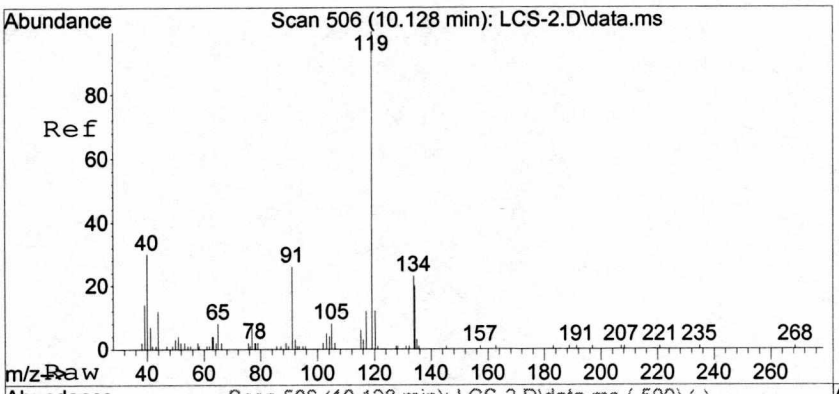
#86
sec-Butylbenzene
Concen: 50.81 ppbv
RT: 10.029 min Scan# 500
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:105 Resp: 70657

Ion	Ratio	Lower	Upper
105	100		
134	21.0	20.8	31.2



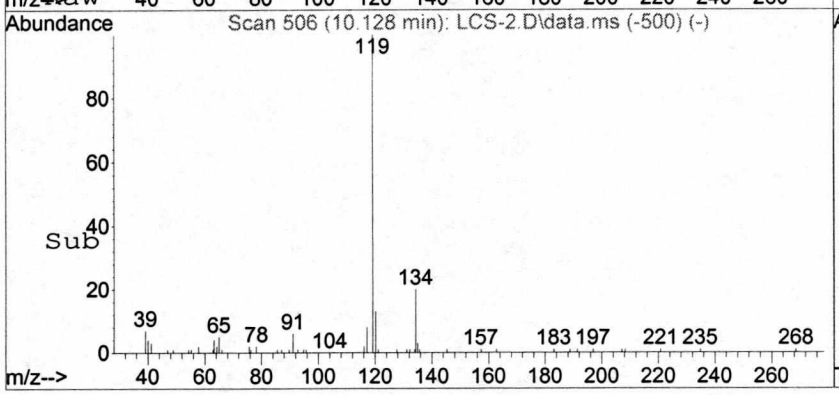


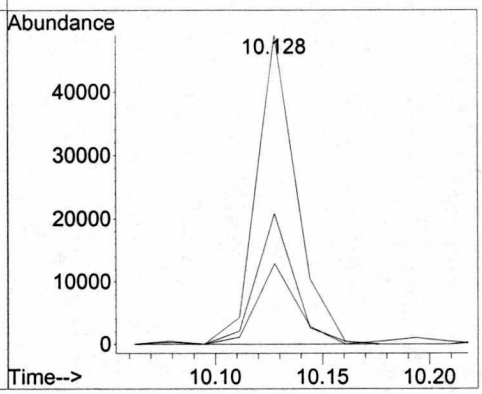


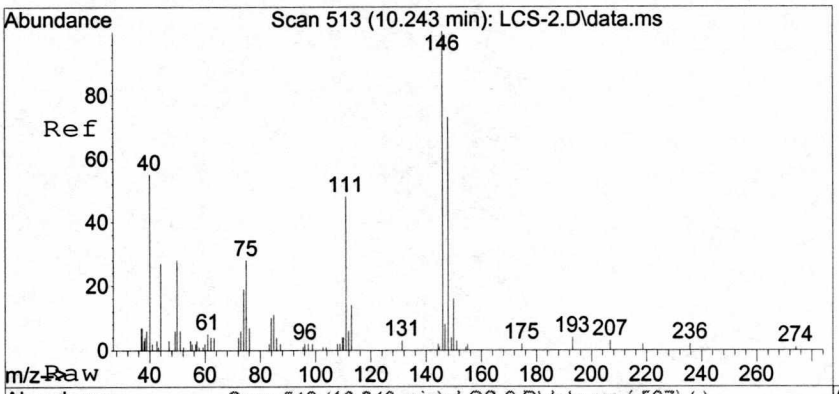
#87
p-Isopropyltoluene
Concen: 49.57 ppbv
RT: 10.128 min Scan# 506
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:119 Resp: 63309

Ion	Ratio	Lower	Upper
119	100		
91	26.3	22.4	33.6
134	40.5	23.0	34.4#



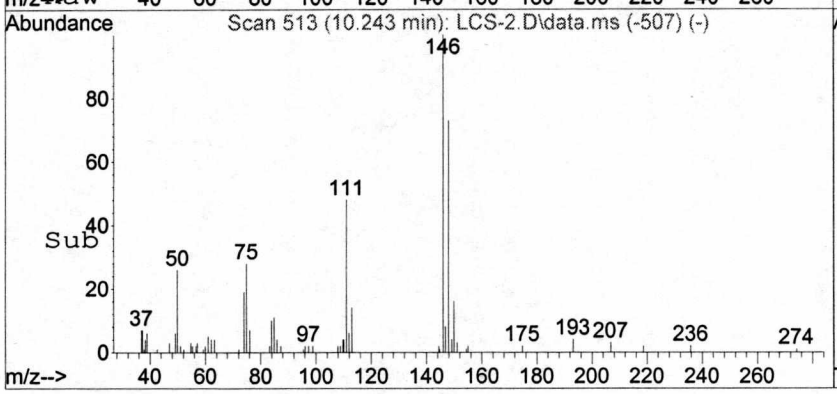


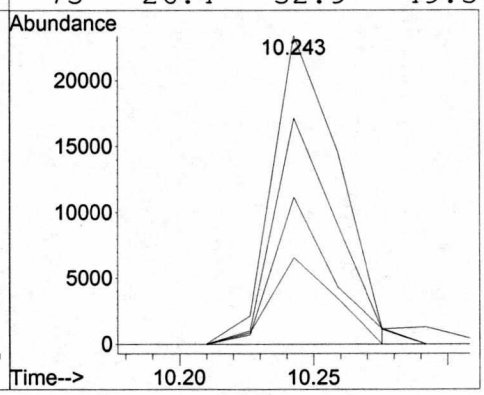


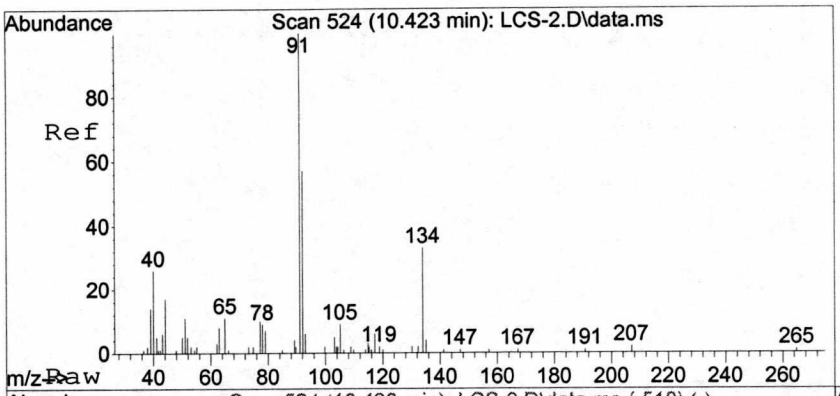
#88
1,2-Dichlorobenzene
Concen: 60.51 ppbv
RT: 10.243 min Scan# 513
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:146 Resp: 40613

Ion	Ratio	Lower	Upper
146	100		
148	68.7	54.3	81.5
111	42.1	30.5	45.7
75	26.4	32.9	49.3#



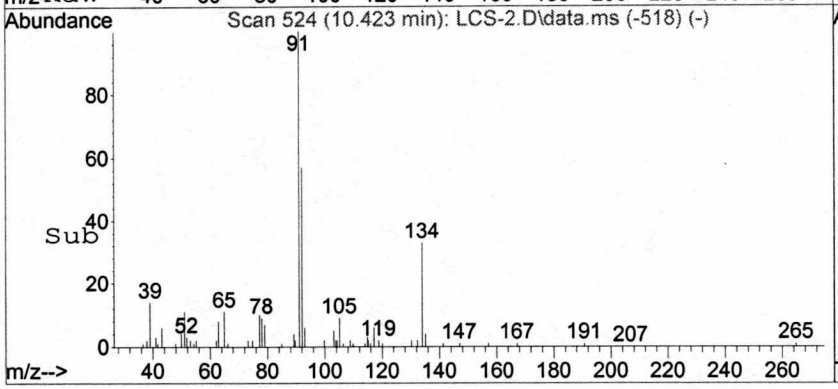


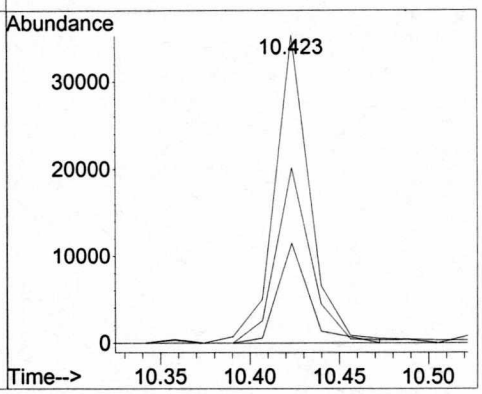


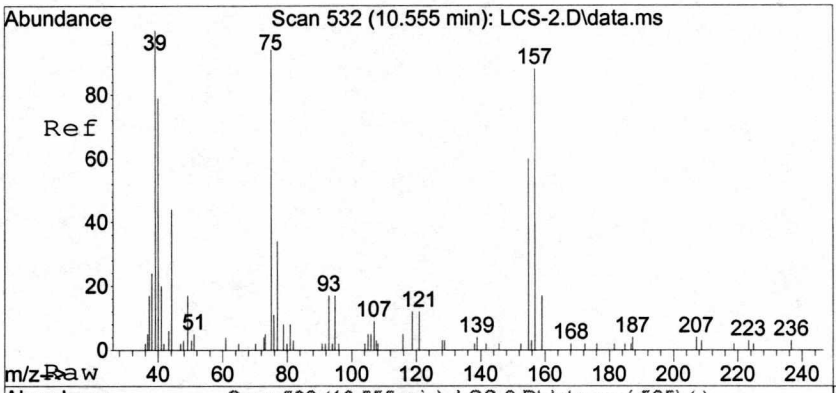
#89
n-Butylbenzene
Concen: 49.99 ppbv
RT: 10.423 min Scan# 524
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 91 Resp: 48288

Ion	Ratio	Lower	Upper
91	100		
92	57.0	44.9	67.3
134	28.8	25.4	38.2



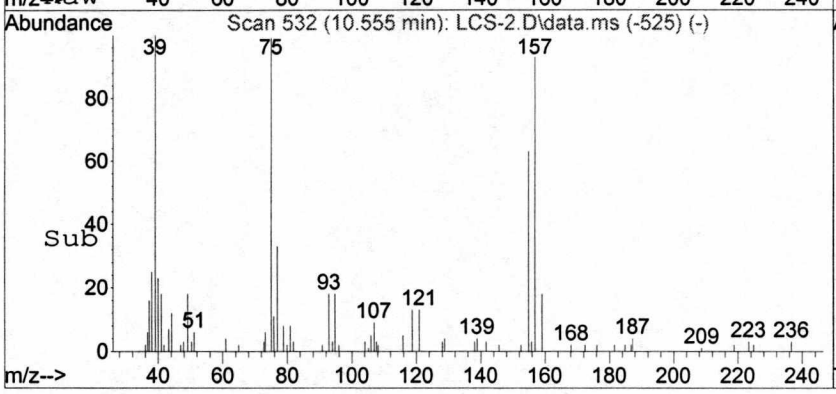


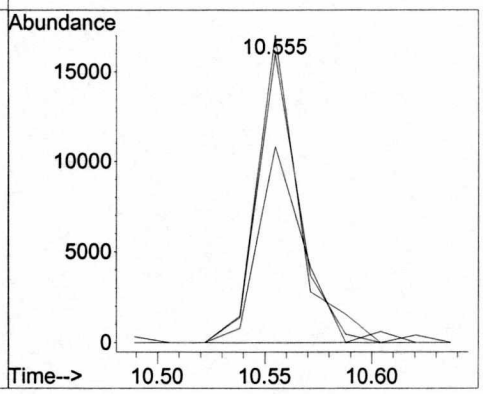


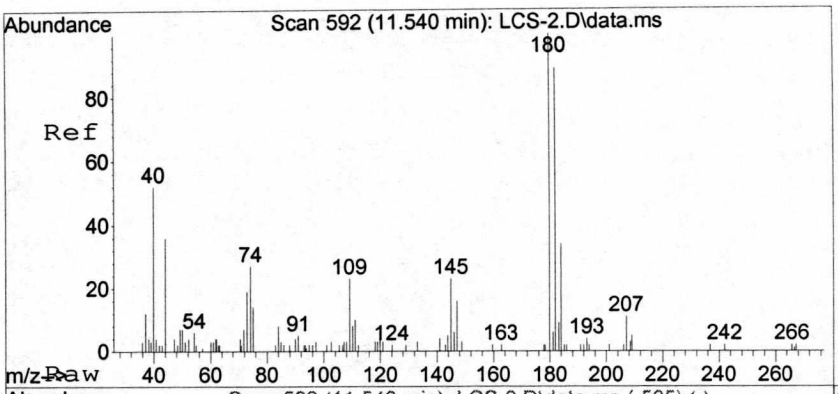
#90
1,2 Dibromo-3-chloropropane
Concen: 58.75 ppbv
RT: 10.555 min Scan# 532
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion: 75 Resp: 22509

Ion	Ratio	Lower	Upper
75	100		
155	69.1	50.9	76.3
157	94.2	61.4	92.2#



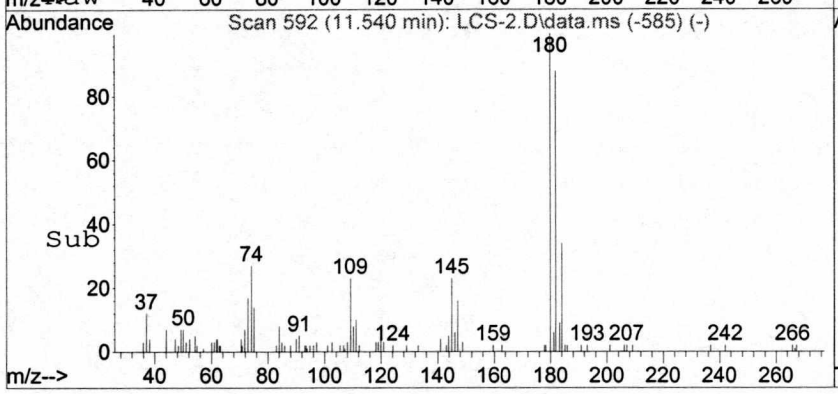


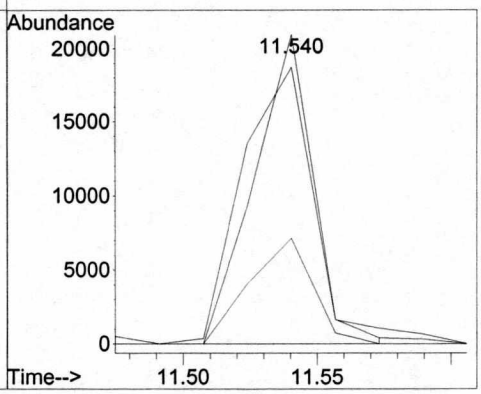


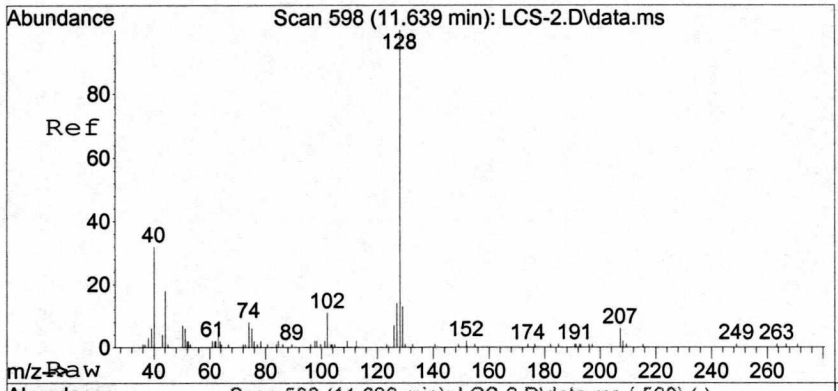
#91
1,2,4-Trichlorobenzene
Concen: 61.99 ppbv
RT: 11.540 min Scan# 592
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:180 Resp: 31880

Ion	Ratio	Lower	Upper
180	100		
182	109.0	75.1	112.7
184	36.9	25.9	38.9



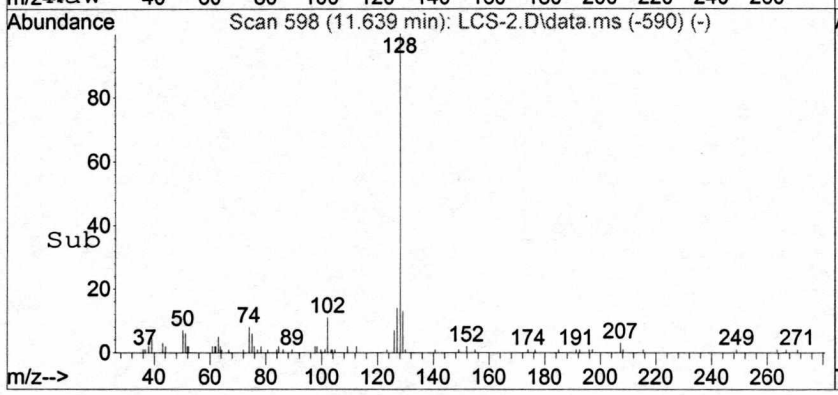


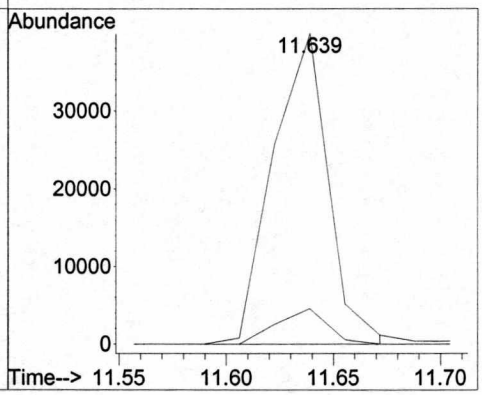


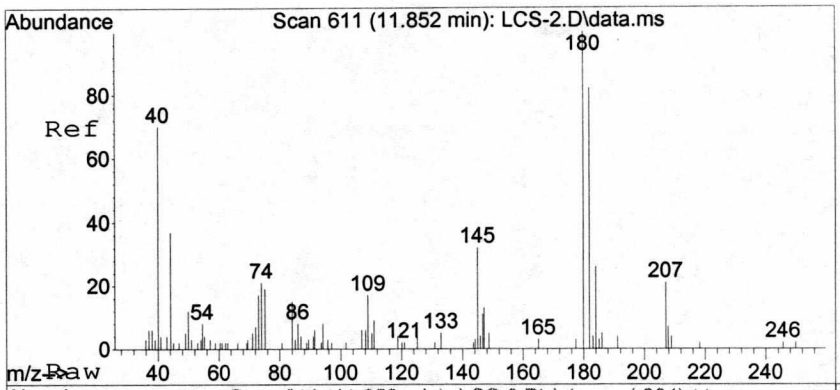
#92
Naphthalene
Concen: 69.73 ppbv
RT: 11.639 min Scan# 598
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:128 Resp: 71690

Ion	Ratio	Lower	Upper
128	100		
102	10.4	5.6	8.4#



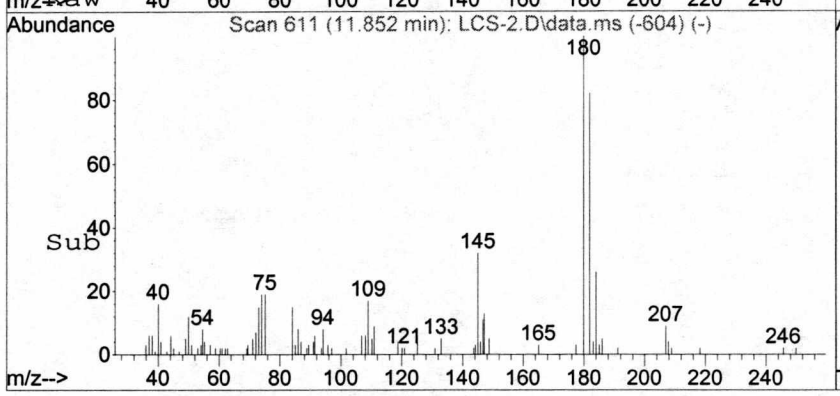


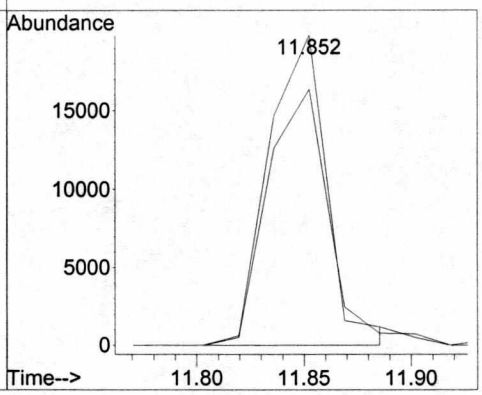


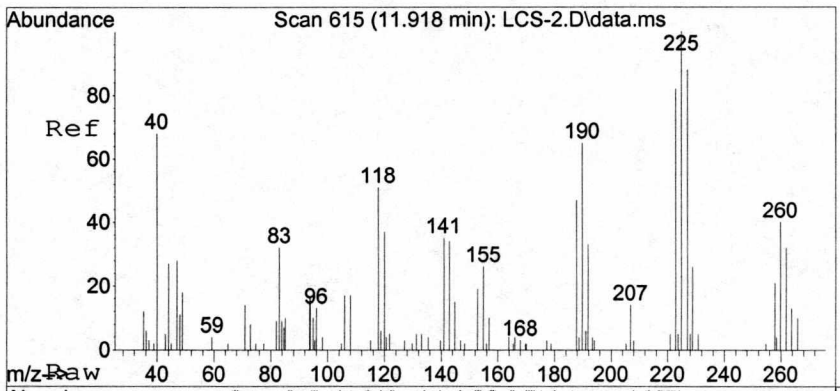
#93
1,2,3-Trichlorobenzene
Concen: 86.68 ppbv
RT: 11.852 min Scan# 611
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:180 Resp: 37372

Ion	Ratio	Lower	Upper
180	100		
182	86.3	75.9	113.9



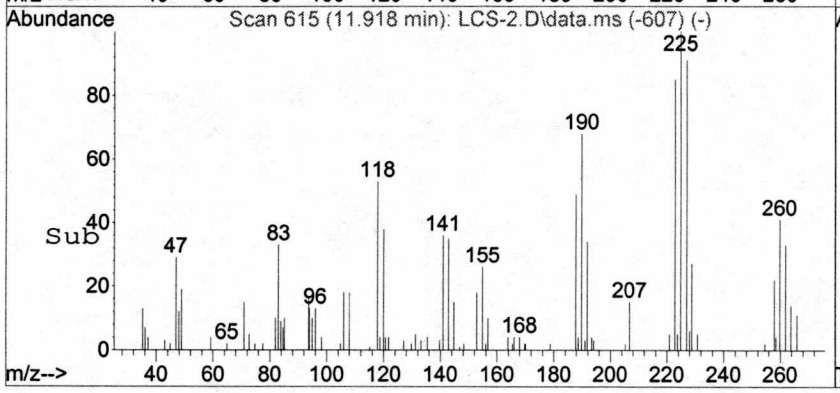


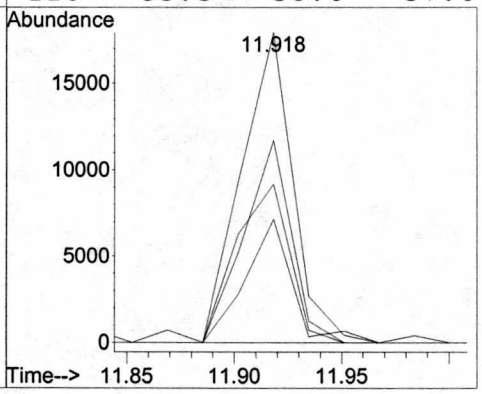


#94
Hexachlorobutadiene
Concen: 71.78 ppbv
RT: 11.918 min Scan# 615
Delta R.T. 0.000 min
Lab File: LCS-2.D
Acq: 26 Mar 2015 16:40

Tgt Ion:225 Resp: 29885

Ion	Ratio	Lower	Upper
225	100		
190	59.8	33.4	50.0#
260	33.8	28.3	42.5
118	53.3	38.0	57.0





GILBANE COMPANY

JERVIS WEBB
(J163007200-002)

H&P PROJECT # GIL032315-A1

LEVEL III-IV DATA PACKAGE

ANALYTICAL DATA
3/27/15

H&P Mobile Geochemistry Inc.

TO-15 RUN LOG
Laboratory #: *A1*
Instrument #: *MS10*

Client(s): Gilbane Company

H&P Project #'s: GIL032315-A1

Page: **1** of **1**
Operator: ***MCM***
Date: **3/27/2015**

Work Order(s): E503131

ICAL Method(s): 022015VOC_TO15.M
Analyses: TO-15 VOCs Client List + Napth + Dioxane + Chloromethane
Batch #'s: EC52703

1st Source Std	ACC-1386T	Exp.	4/12/2015	Conc.	1000 ppbv	cc Injected:	0.05
2nd Source Std	ACC-1387T	Exp.	4/12/2015	Conc.	1000 ppbv	cc Injected:	0.05
APH/TPH Std	ACC-1371T	Exp.	3/26/2015	Conc.	25000 ppbv	cc Injected:	0.10
I.S./Surr. Std	AIS-831	Exp.	4/16/2015	Conc.	209 ppbv	cc Injected:	1.00

1st Source Med Std:	Expiration:	Conc.	100ppbv
1st Source Low Std:	Expiration:	Conc.	50ppbv
APH/TPH Low Std:	Expiration:	Conc.	

Lab Temperatures:
High (°C) : 31
Low (°C) : 26

Workorder Number	Syringe ID #	Sample Dilution	Volume Analyzed (cc)	Final Dilution Factor	port #	Sample Name	Data File Name	Comments
blank	line	1	1	1	1-1	blank-1	blank-1	wash
blank	line	1	1	1	1-1	blank-2	blank-2	bfb check ok
ACC-1386T	SV0042	1	0.05	20	1-2	ccv1	ccv1	CCV ok
EC52703-BLK1	line	1	1	1	1-3	blank-3	blank-3	ND
E503131-01	SV0083	1	1	1	1-3	SB/SG07-25	SB/SG07-25	ok
E503131-02	SV0121	1	1	1	1-3	SB/SG07-35	SB/SG07-35	ok
E503131-03	SV0085	1	1	1	1-3	SB/SG08-5	SB/SG08-5	ok
E503131-04	SV0181	1	1	1	1-3	SB/SG08-15	SB/SG08-15	ok
E503131-05	SV0085	1	1	1	1-3	SB/SG08-25	SB/SG08-25	ok
E503131-06	SV0083	1	1	1	1-3	SB/SG08-35	SB/SG08-35	TCE O.R.
E503131-06	SV0121	1	0.1	10	1-3	SB/SG08-35 R	SB/SG08-35 R	TCE ok
E503131-07	SV0181	1	1	1	1-3	SB/SG10-5	SB/SG10-5	ok
E503131-08	SV0083	1	1	1	1-3	SB/SG10-5 Rep	SB/SG10-5 Rep	ok
E503131-09	SV0085	1	1	1	1-3	SB/SG10-15	SB/SG10-15	ok
E503131-10	SV0181	1	1	1	1-3	SB/SG10-25	SB/SG10-25	ok
E503131-11	SV0121	1	1	1	1-3	SB/SG10-35	SB/SG10-35	TCE O.R.
E503131-11	SV0083	1	0.1	10	1-3	SB/SG10-35 R	SB/SG10-35 R	TCE ok
E503131-12	SV0085	1	1	1	1-3	SB/SG12-5	SB/SG12-5	ok
E503131-13	SV0083	1	1	1	1-3	SB/SG12-15	SB/SG12-15	ok
E503131-14	SV0121	1	1	1	1-2	SB/SG12-25	SB/SG12-25	ok
EC52703-BS1	SV0042	1	0.05	20	1-2	LCS-1	LCS-1	ok

Analyst Initials MM Date 3/27/15

INTERNAL STANDARD SUMMARY LOG FOR TO-15 MOBILE LAB A1

022015VOC_TO15.M

March 27, 2015

Client Sample Name	Sample Name	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
		R.T.	Response	R.T.	Response	R.T.	Response
ccv1.D	50ppbv VOCs	5.42	53183	6.23	179654	8.29	52520
LCS-1.D	EC52703-bs1	5.42	56777	6.22	167672	8.27	48571
blank-3.D	EC52703-blk1	5.42	64513	6.22	223401	8.29	67692
SBSG07-25.D	E503131-01	5.42	68578	6.22	219518	8.29	72079
SBSG07-35 .D	E503131-02	5.42	64823	6.22	237983	8.27	62031
SBSG08-5.D	E503131-03	5.42	54875	6.22	190407	8.27	51568
SBSG08-15.D	E503131-04	5.41	59176	6.20	186177	8.27	67785
SBSG08-25.D	E503131-05	5.40	58726	6.2	185218	8.27	56915
SBSG08-35.D	E503131-06	5.40	55831	6.2	190394	8.27	59216
SBSG08-35 R.D	E503131-06	5.41	51307	6.22	173158	8.27	62593
SBSG10-5 .D	E503131-07	5.41	52798	6.22	172658	8.27	62921
SBSG10-5 REP.D	E503131-08	5.40	54992	6.2	174926	8.27	58661
SBSG10-15 .D	E503131-09	5.40	49359	6.2	175737	8.27	57490
SBSG10-25 .D	E503131-10	5.42	56362	6.22	167855	8.27	62845
SBSG10-35 .D	E503131-11	5.40	52430	6.2	177672	8.27	65106
SBSG10-35 R.D	E503131-11	5.41	54869	6.20	177053	8.27	51294
SBSG12-5.D	E503131-12	5.39	47725	6.19	171855	8.27	57444
SBSG12-15 .D	E503131-13	5.40	51867	6.2	162601	8.27	52023
SBSG12-25 .D	E503131-14	5.41	47406	6.22	161267	8.27	52681

Criteria for CCV:

Acceptance Range Minimum	5.37	43147	6.18	155959	8.26	46059
Acceptance Range Maximum	5.49	100676	6.30	363905	8.38	107471

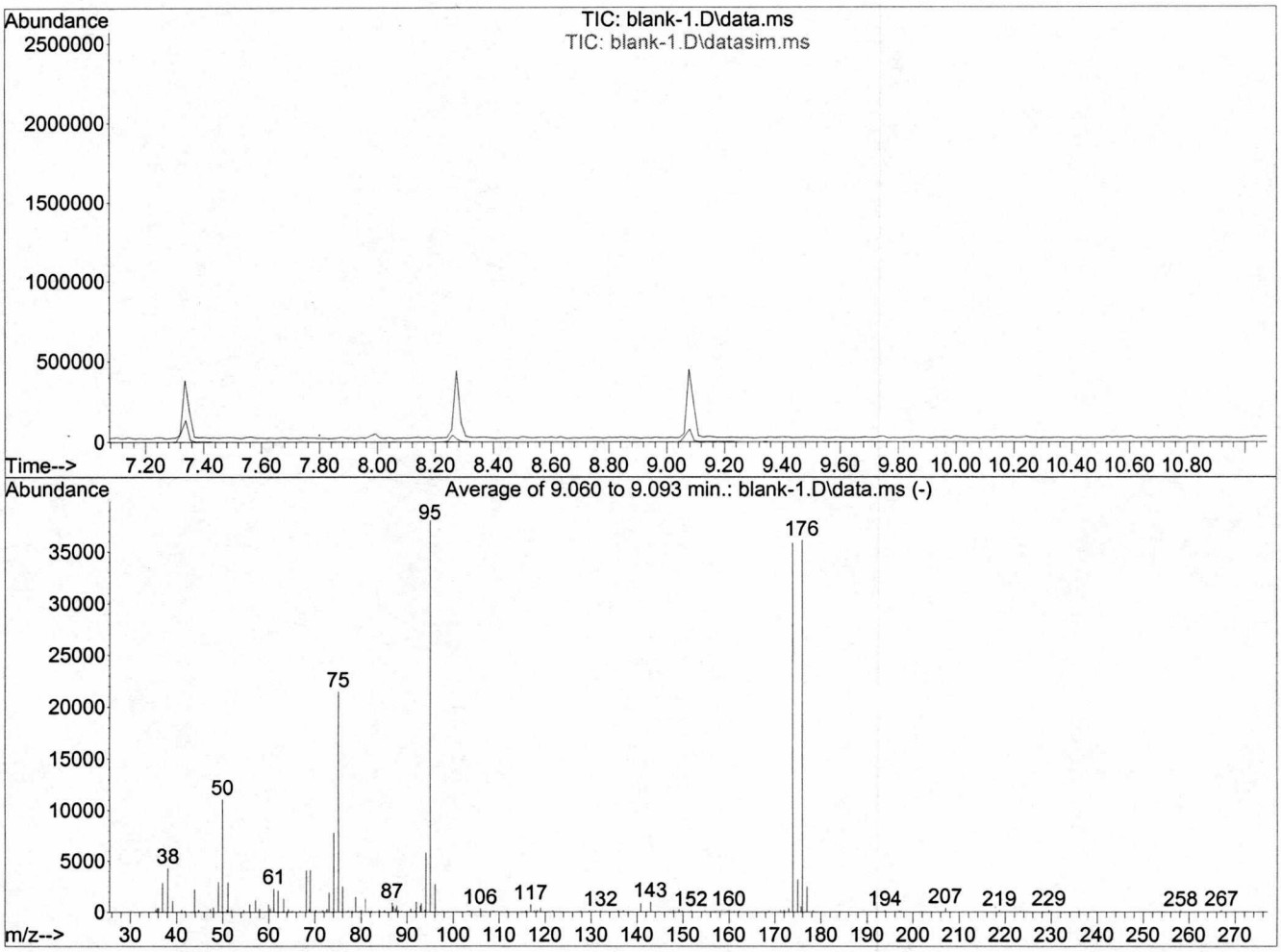
Criteria for Samples, Blanks & Spikes:

Acceptance Range Minimum	5.26	31910	6.07	107792	8.13	31512
Acceptance Range Maximum	5.58	74456	6.39	251516	8.45	73528

Data Path : C:\msdchem\1\DATA\032715\
Data File : blank-1.D
Acq On : 26 Mar 2015 17:00
Operator : mm
Sample : blank
Misc : 1,
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: lscint.p
Integration File signal 2: rteint2.p

Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Title : TO-15 SV GC/MS#10
Last Update : Wed Mar 25 17:33:59 2015



AutoFind: Scans 441, 442, 443; Background Corrected with Scan 439

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	29.1	11079	PASS
75	95	30	66	56.4	21474	PASS
95	95	100	100	100.0	38044	PASS
96	95	5	9	7.2	2723	PASS
173	174	0.00	2	1.0	364	PASS
174	95	50	120	94.2	35849	PASS
175	174	4	9	8.9	3197	PASS
176	174	93	101	100.7	36097	PASS
177	176	5	9	6.9	2483	PASS

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\032715\
Data File : ccv1.D
Acq On : 26 Mar 2015 17:59
Operator : mm
Sample : 50ppbv VOCs
Misc : 1,
ALS Vial : 3 Sample Multiplier: 1

OK

Quant Time: Mar 26 18:17:27 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Thu Mar 26 18:14:16 2015
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 : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	80	0.00
2	T	1,1,1 Trifluoroethane	0.868	1.400	NT -61.3#	139	-0.03
3	T	1,1,1,2 Tetrafluoroethane	1.164	1.423	-22.3	96	-0.01
4	T	1,1-Difluoroethane	1.148	1.151	-0.3	87	-0.03
5	T	Propene	0.773	0.837	-8.3	112	-0.03
6	T	Dichlorodifluoromethane	3.007	3.649	-21.4	121	-0.01
7	T	Chloromethane	1.026	0.869	15.3	94	-0.01
8	T	Dichlorotetrafluoroethane	2.835	3.149	-11.1	107	-0.01
9	T	Vinyl Chloride	0.945	0.830	12.2	74	0.00
10	T	1,3-Butadiene~39	0.967	0.951	1.7	79	-0.01
11	T	1,3-Butadiene~54	0.821	0.818	0.4	87	-0.01
12	T	Bromomethane	0.941	0.881	6.4	114	-0.01
13	T	Chloroethane	0.455	0.451	0.9	111	-0.01
14	T	Ethanol	0.397	0.133	NT 66.5#	31#	0.00
15	T	Trichlorofluoromethane	3.596	4.321	-20.2	111	-0.01
16	T	Acetone	1.657	1.148	30.7#	63	0.00
17	T	Isopropyl alcohol	2.480	1.878	24.3	66	0.00
18	T	1,1-Dichloroethene	1.740	2.114	-21.5	108	0.00
19	TC	tert-Butyl Alcohol	2.821	2.200	22.0	73	0.00
20	TC	Methylene Chloride	0.654	0.812	-24.2	113	-0.01
21	TC	1,1,2-Trichlorotrifluoroeth	2.085	2.000	4.1	87	-0.01
22	TC	Carbon Disulfide	2.340	2.174	7.1	90	0.00
23	TC	trans-1,2-Dichloroethene	1.636	1.680	-2.7	107	0.00
24	TC	1,1-Dichloroethane	1.980	1.665	15.9#	77	0.01
25	TC	Methyl tert-Butyl Ether	2.939	2.695	8.3	88	0.00
26	TC	Vinyl Acetate	3.995	3.941	1.4	109	0.00
27	TC	2-Butanone	0.342	0.308	9.9	181#	0.00
28	TC	cis-1,2-dichloroethene	1.526	1.755	-15.0	95	-0.01
29	TC	Di-Isopropyl Ether	4.623	4.106	11.2	87	0.00
30	TC	Ethyl Acetate	5.744	4.699	18.2	76	0.00
31	TC	n-Hexane	1.472	1.385	5.9#	84	-0.01
32	TC	Chloroform	2.276	2.829	-24.3	120	0.00
33		2,2 Dichloropropane	2.362	2.326	1.5	90	0.00
34	TC	Ethyl tert-Butyl Ether	3.734	3.633	2.7#	93	0.00
35	TC	Tetrahydrofuran	0.343	0.314	8.5	108	0.00
36	S	1,2-Dichloroethane-d4	1.813	1.983	-9.4	88	0.01
37	TC	1,2-Dichloroethane	1.916	2.369	-23.6	105	-0.01
38	TC	1,1,1-Trichloroethane	2.872	2.989	-4.1	95	-0.01
39		1,1-Dichloropropene	1.693	2.664	NT -57.4#	152#	0.00
40	TC	Benzene	2.405	2.505	-4.2	110	0.00
41	TC	Carbon Tetrachloride	3.185	4.112	-29.1	104	-0.01
42	I	1,4-Difluorobenzene	1.000	1.000	0.0	76	0.01
43	TC	Cyclohexane	0.314	0.362	-15.3	84	0.00
44	TC	tert-Amyl Methyl Ether	0.815	0.919	-12.8	107	0.00
45		Dibromomethane	0.328	0.482	NT -47.0#	126	0.02
46	TC	1,2-Dichloropropane	0.277	0.337	-21.7	137	0.00
47	TC	Bromodichloromethane	0.744	0.957	-28.6#	106	0.00
48	TC	Trichloroethene	0.376	0.442	-17.6	81	0.02
49	TC	1,4-Dioxane	0.171	0.128	25.1	80	0.03

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\032715\
Data File : ccv1.D
Acq On : 26 Mar 2015 17:59
Operator : mm
Sample : 50ppbv VOCs
Misc : 1,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 26 18:17:27 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Thu Mar 26 18:14:16 2015
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 : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	TC	2,2,4-Trimethylpentane	1.381	1.365	1.2#	89	0.00
51	TC	n-Heptane	0.226	0.246	-8.8#	86	-0.01
52	TC	cis-1,3-Dichloropropene	0.487	0.523	-7.4	105	0.00
53	TC	4-Methyl-2-Pentanone	0.905	0.905	0.0	97	0.00
54	TC	trans-1,3-Dichloropene	0.523	0.496	5.2	90	0.01
55	TC	1,1,2-Trichloroethane	0.316	0.332	-5.1	92	-0.02
56	S	Toluene-d8	0.931	1.021	-9.7	79	0.00
57		1,3 Dichloropropane	0.433	0.469	-8.3	82	0.00
58	TC	Toluene	1.001	0.938	6.3#	82	0.00
59	TC	2-Hexanone	0.794	0.972	-22.4#	118	0.02
60	TC	Dibromochloromethane	0.804	0.941	-17.0#	101	0.00
61	TC	1,2-Dibromoethane	0.545	0.606	-11.2	97	0.00
62	TC	Tetrachloroethene	0.538	0.504	6.3	101	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	70	0.02
64	TC	1,1,1,2 Tetrachloroethane	1.687	2.109	-25.0	98	0.00
65	TC	Chlorobenzene	2.561	2.803	-9.4	90	0.00
66	TC	Ethylbenzene	4.562	3.968	13.0	71	0.00
67	TC	m,p-xylene	3.535	3.564	-0.8	98	0.00
68	TC	Bromoform	2.706	3.321	-22.7#	113	0.00
69	TC	Styrene	2.595	2.655	-2.3	94	0.02
70	TC	1,1,2,2-Tetrachloroethane	2.007	2.174	-8.3	113	0.00
71	TC	o-xylene	3.634	3.517	3.2	83	0.00
72		1,2,3-Trichloropropane	1.826	2.038	-11.6	104	0.00
73		Isopropylbenzene	4.912	5.459	-11.1	93	0.00
74	S	1,4-Bromofluorobenzene	2.368	2.498	-5.5	77	0.00
75		Bromobenzene	1.852	1.971	-6.4	94	0.00
76		2-Chlorotoluene	1.313	0.890	32.2#	56	0.03
77		n-Propylbenzene	12.058	12.984	-7.7	118	0.00
78		4-Chlorotoluene	1.010	1.218	-20.6	104	0.00
79	TC	4-Ethyltoluene	4.729	4.463	5.6#	94	0.00
80	TC	1,3,5-Trimethylbenzene	4.107	3.565	13.2	81	0.00
81	TC	1,2,4-Trimethylbenzene	3.980	3.585	9.9	84	0.00
82		tert-Butylbenzene	4.530	4.181	7.7	91	0.00
83	TC	Benzyl Chloride	3.844	3.097	19.4	88	0.00
84	TC	1,3-Dichlorobenzene	3.392	3.652	-7.7#	101	0.00
85	TC	1,4-Dichlorobenzene	2.633	2.730	-3.7	122	0.00
86		sec-Butylbenzene	5.526	5.554	-0.5	91	0.00
87	TC	p-Isopropyltoluene	5.075	5.227	-3.0	102	0.00
88	TC	1,2-Dichlorobenzene	2.667	3.073	-15.2	114	0.00
89		n-Butylbenzene	3.839	3.716	3.2	77	0.00
90		1,2 Dibromo-3-chloropropane	1.523	1.665	-9.3	95	0.00
91	TC	1,2,4-Trichlorobenzene	2.044	1.863	8.9#	94	0.00
92	TC	Naphthalene	4.086	3.900	4.6	108	0.00
93		1,2,3-Trichlorobenzene	1.714	2.565	-49.6#	146#	0.00
94	TC	Hexachlorobutadiene	1.655	1.933	-16.8	130	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 13

GILBANE COMPANY

JERVIS WEBB
(J163007200-002)

H&P PROJECT # GIL032315-A1

LEVEL III-IV DATA PACKAGE

ANALYTICAL DATA
3/30/15

H&P Mobile Geochemistry Inc.

TO-15 RUN LOG
Laboratory #: *A1*
Instrument #: *MS10*

Client(s): Gilbane Company

H&P Project #'s: GIL032315-A1

Page: 1 of 2
Operator: *MCM*
Date: 3/30/2015

Work Order(s): E503140

ICAL Method(s): 022015VOC_TO15.M
Analyses: TO-15 VOCs Client List + Napth + Dioxane + Chloromethane
Batch #'s: EC53003

1st Source Std	ACC-1386T	Exp.	4/12/2015	Conc.	1000 ppbv	cc Injected:	0.05
2nd Source Std	ACC-1387T	Exp.	4/12/2015	Conc.	1000 ppbv	cc Injected:	0.05
APH/TPH Std	ACC-1371T	Exp.	3/26/2015	Conc.	25000 ppbv	cc Injected:	0.10
I.S./Surr. Std	AIS-837	Exp.	4/29/2015	Conc.	209 ppbv	cc Injected:	1.00

1st Source Med Std:	Expiration:	Conc.	100ppbv
1st Source Low Std:	Expiration:	Conc.	50ppbv
APH/TPH Low Std:	Expiration:	Conc.	

Lab Temperatures:
High (°C): 26
Low (°C): 15

Workorder Number	Syringe ID #	Sample Dilution	Volume Analyzed (cc)	Final Dilution Factor	port #	Sample Name	Data File Name	Comments
blank	line	1	1	1	1-3	blank-1	blank-1	wash
blank	line	1	1	1	1-3	blank-2	blank-2	wash
blank	line	1	1	1	1-3	blank-3	blank-3	bfb check ok
ACC-1386T	SV0042	1	0.05	20	1-2	ccv-1	ccv-1	CCV ok
EC53003-BLK1	line	1	1	1	1-3	blank-4	blank-4	nd
E503140-01	SV0085	1	1	1	1-3	SB/SG12-35	SB/SG12-35	ok
E503140-02	SV0083	1	1	1	1-3	SB/SG13-5	SB/SG13-5	ok
E503140-03	SV0121	1	1	1	1-3	SB/SG13-15	SB/SG13-15	TCE & PCE O.R.
E503140-03	SV0181	1	0.1	10	1-3	SB/SG13-15 R	SB/SG13-15 R	TCE & PCE ok
E503140-04	SV0184	1	1	1	1-3	SB/SG13-25	SB/SG13-25	TCE & PCE O.R.
blank	line	1	1	1	1-3	blank-5	blank-5	wash
E503140-04	SV0085	1	0.04	25	1-3	SB/SG13-25 R	SB/SG13-25 R	TCE & PCE ok
E503140-05	SV0083	1	1	1	1-3	SB/SG13-35	SB/SG13-35	TCE O.R.
E503140-05	SV0121	1	0.05	20	1-3	SB/SG13-35 R	SB/SG13-35 R	TCE ok
E503140-06	SV0085	1	1	1	1-3	SB/SG14-5	SB/SG14-5	ok
E503140-07	SV0181	1	1	1	1-3	SB/SG14-5 Rep	SB/SG14-5 Rep	ok
E503140-08	SV0184	1	1	1	1-3	SB/SG14-15	SB/SG14-15	ok
E503140-09	SV0085	1	1	1	1-3	SB/SG14-35	SB/SG14-35	TCE O.R.
blank	line	1	1	1	1-3	blank-6	blank-6	wash
E503140-09	SV0121	5T	0.1	50	1-2	SB/SG14-35 R	SB/SG14-35 R	TCE ok
E503140-10	SV0181	1	1	1	1-2	SB/SG14-25	SB/SG14-25	ok
E503140-11	SV0184	1	1	1	1-2	SB/SG15-5	SB/SG15-5	ok

Analyst Initials MM Date 3/30/15

H&P Mobile Geochemistry Inc.

TO-15 RUN LOG

Laboratory #: *A1*
Instrument #: *MS10*

Client(s): Gilbane Company

H&P Project #'s: GIL032315-A1

Page: **2** of **2**
Operator: ***MCM***
Date: **3/30/2015**

Work Order(s): E503140

ICAL Method(s): 022015VOC_TO15.M
Analyses: TO-15 VOCs Client List + Napth + Dioxane + Chloromethane
Batch #'s: EC53003

1st Source Std	ACC-1386T	Exp.	4/12/2015	Conc.	1000 ppbv	cc Injected:	0.05
2nd Source Std	ACC-1387T	Exp.	4/12/2015	Conc.	1000 ppbv	cc Injected:	0.05
APH/TPH Std	ACC-1371T	Exp.	3/26/2015	Conc.	25000 ppbv	cc Injected:	0.10
I.S./Surr. Std	AIS-837	Exp.	4/29/2015	Conc.	209 ppbv	cc Injected:	1.00

1st Source Med Std:	Expiration:	Conc.	100ppbv
1st Source Low Std:	Expiration:	Conc.	50ppbv
APH/TPH Low Std:	Expiration:	Conc.	

Lab Temperatures:
High (°C) : 26
Low (°C) : 15

Workorder Number	Syringe ID #	Sample Dilution	Volume Analyzed (cc)	Final Dilution Factor	port #	Sample Name	Data File Name	Comments
EC53003-BS1	line	1	0.05	20	1-2	LCS-1	LCS-1	OK

Analyst Initials MM Date 3/30/15

INTERNAL STANDARD SUMMARY LOG FOR TO-15 MOBILE LAB A1

022015VOC_TO15.M

March 30, 2015

Client Sample Name	Sample Name	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
		R.T.	Response	R.T.	Response	R.T.	Response
CCV-1.D	50ppbv VOCs	5.42	60606	6.22	226951	8.27	63288
blank-4.D	ec56003-blk1	5.42	66823	6.22	247441	8.29	61286
LCS-1.D	ec53003-bs1	5.42	63577	6.22	192972	8.27	56626
SBSG12-35 .D	E503140-01	5.42	77141	6.22	237473	8.29	59430
SBSG13-5 .D	E503140-02	5.43	71551	6.23	256784	8.29	72188
SBSG13-15 .D	E503140-03	5.43	74814	6.22	256137	8.29	80569
SBSG13-15 R.D	E503140-03	5.42	65951	6.22	216744	8.29	62532
SBSG13-25 .D	E503140-04	5.42	67771	6.22	229738	8.29	73387
SBSG13-25 R.D	E503140-04	5.42	58929	6.22	220590	8.29	67152
SBSG13-35 .D	E503140-05	5.42	59862	6.22	223240	8.29	74005
SBSG13-35 R.D	E503140-05	5.42	56847	6.22	211420	8.27	70234
SBSG14-5.D	E503140-06	5.43	66638	6.23	211968	8.29	67559
SBSG14-5 REP.D	E503140-07	5.41	61536	6.22	208391	8.27	65728
SBSG14-15 .D	E503140-08	5.42	62206	6.22	209391	8.29	69420
SBSG14-15 .D	E503140-08	5.42	62206	6.22	209391	8.29	69420
SBSG14-35 .D	E503140-09	5.42	56547	6.22	198134	8.29	57429
SBSG14-35 R.D	E503140-09	5.42	64939	6.22	196058	8.29	52576
SBSG14-25.D	E503140-10	5.42	61613	6.22	199272	8.29	62899
SBSG15-5 .D	E503140-11	5.43	61299	6.23	202400	8.29	59186

Criteria for CCV:

Acceptance Range Minimum	5.37	43147	6.18	155959	8.26	46059
Acceptance Range Maximum	5.49	100676	6.30	363905	8.38	107471

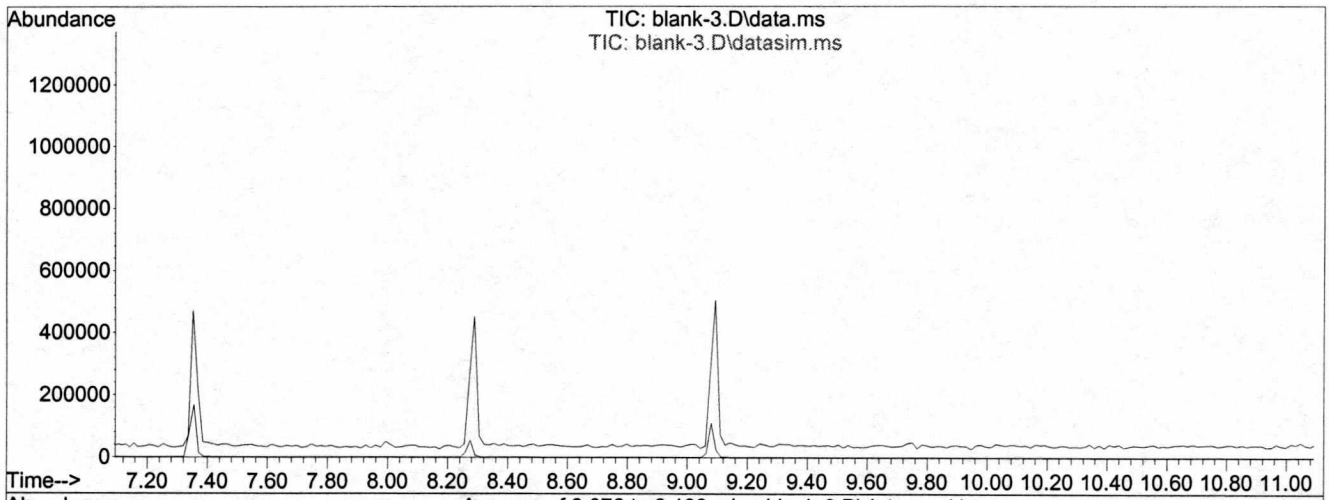
Criteria for Samples, Blanks & Spikes:

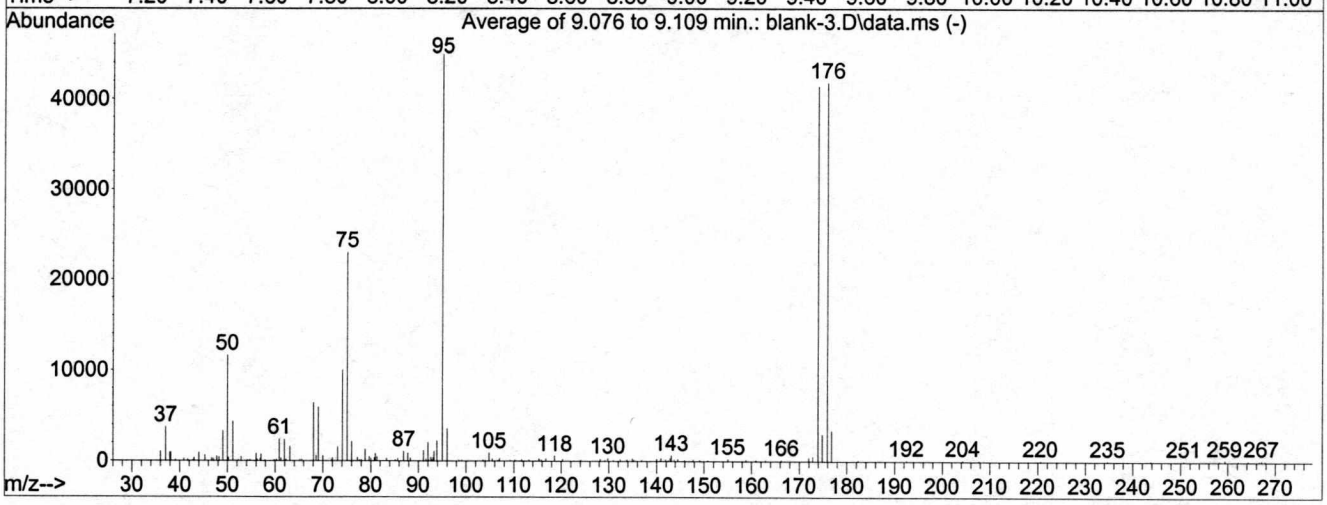
Acceptance Range Minimum	5.26	36364	6.06	136171	8.11	37973
Acceptance Range Maximum	5.58	84848	6.38	317731	8.43	88603

Data Path : C:\msdchem\1\DATA\033015\
Data File : blank-3.D
Acq On : 29 Mar 2015 17:41
Operator : mm
Sample : blank
Misc : 1,
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: lscint.p
Integration File signal 2: rteint2.p

Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Title : TO-15 SV GC/MS#10
Last Update : Fri Apr 17 13:03:06 2015





AutoFind: Scans 442, 443, 444; Background Corrected with Scan 439

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.9	11624	PASS
75	95	30	66	51.3	23040	PASS
95	95	100	100	100.0	44879	PASS
96	95	5	9	7.9	3560	PASS
173	174	0.00	2	1.3	542	PASS
174	95	50	120	92.3	41435	PASS
175	174	4	9	7.2	2973	PASS
176	174	93	101	100.9	41818	PASS
177	176	5	9	8.1	3383	PASS

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\033015\
Data File : CCV-1.D
Acq On : 29 Mar 2015 18:01
Operator : mm
Sample : 50ppbv VOCs
Misc : 1,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 08:10:55 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Mon Mar 30 07:48:49 2015
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 : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	91	0.00
2	T	1,1,1 Trifluoroethane	0.868	1.184	-36.4#	134	-0.03
3	T	1,1,1,2 Tetrafluoroethane	1.164	1.447	-24.3	111	-0.01
4	T	1,1-Difluoroethane	1.148	1.153	-0.4	100	-0.01
5	T	Propene	0.773	1.018	-31.7#	155#	-0.01
6	T	Dichlorodifluoromethane	3.007	3.167	-5.3	120	0.00
7	T	Chloromethane	1.026	1.172	-14.2	144#	-0.01
8	T	Dichlorotetrafluoroethane	2.835	2.825	0.4	109	-0.01
9	T	Vinyl Chloride	0.945	0.997	-5.5	102	-0.01
10	T	1,3-Butadiene~39	0.967	1.024	-5.9	96	0.00
11	T	1,3-Butadiene~54	0.821	0.793	3.4	97	0.03
12	T	Bromomethane	0.941	0.794	15.6	117	-0.03
13	T	Chloroethane	0.455	0.502	-10.3	141#	-0.01
14	T	Ethanol	0.397	0.173	56.4#	46#	0.14
15	T	Trichlorofluoromethane	3.596	3.794	-5.5	111	0.00
16	T	Acetone	1.657	0.616	62.8#	38#	0.00
17	T	Isopropyl alcohol	2.480	0.287	88.4#	12#	0.09
18	T	1,1-Dichloroethene	1.740	2.002	-15.1	116	-0.01
19	TC	tert-Butyl Alcohol	2.821	2.767	1.9	105	-0.01
20	TC	Methylene Chloride	0.654	0.811	-24.0	129	-0.01
21	TC	1,1,2-Trichlorotrifluoroeth	2.085	1.888	9.4	94	-0.01
22	TC	Carbon Disulfide	2.340	2.406	-2.8	113	0.01
23	TC	trans-1,2-Dichloroethene	1.636	1.766	-7.9	129	0.00
24	TC	1,1-Dichloroethane	1.980	2.094	-5.8#	111	0.00
25	TC	Methyl tert-Butyl Ether	2.939	2.808	4.5	105	0.00
26	TC	Vinyl Acetate	3.995	3.344	16.3	105	-0.01
27	TC	2-Butanone	0.342	0.306	10.5	205#	0.00
28	TC	cis-1,2-dichloroethene	1.526	1.388	9.0	86	-0.02
29	TC	Di-Isopropyl Ether	4.623	4.305	6.9	104	-0.01
30	TC	Ethyl Acetate	5.744	5.549	3.4	102	-0.01
31	TC	n-Hexane	1.472	1.497	-1.7#	104	-0.01
32	TC	Chloroform	2.276	2.559	-12.4	124	0.00
33		2,2 Dichloropropane	2.362	2.689	-13.8	118	-0.01
34	TC	Ethyl tert-Butyl Ether	3.734	3.658	2.0#	107	-0.01
35	TC	Tetrahydrofuran	0.343	0.385	-12.2	151#	-0.01
36	S	1,2-Dichloroethane-d4	1.813	1.961	-8.2	99	0.00
37	TC	1,2-Dichloroethane	1.916	2.182	-13.9	110	0.00
38	TC	1,1,1-Trichloroethane	2.872	3.116	-8.5	113	-0.01
39		1,1-Dichloropropene	1.693	1.732	-2.3	112	-0.01
40	TC	Benzene	2.405	2.345	2.5	117	-0.01
41	TC	Carbon Tetrachloride	3.185	4.038	-26.8	116	0.00
42	I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
43	TC	Cyclohexane	0.314	0.303	3.5	88	0.06
44	TC	tert-Amyl Methyl Ether	0.815	0.736	9.7	108	0.00
45		Dibromomethane	0.328	0.329	-0.3	109	0.00
46	TC	1,2-Dichloropropane	0.277	0.303	-9.4	156#	0.00
47	TC	Bromodichloromethane	0.744	0.821	-10.3#	115	0.00
48	TC	Trichloroethene	0.376	0.395	-5.1	91	0.00
49	TC	1,4-Dioxane	0.171	0.147	14.0	115	0.02

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\033015\
Data File : CCV-1.D
Acq On : 29 Mar 2015 18:01
Operator : mm
Sample : 50ppbv VOCs
Misc : 1,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 08:10:55 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Mon Mar 30 07:48:49 2015
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 : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	TC	2,2,4-Trimethylpentane	1.381	1.355	1.9#	112	-0.01
51	TC	n-Heptane	0.226	0.247	-9.3#	109	-0.01
52	TC	cis-1,3-Dichloropropene	0.487	0.430	11.7	109	0.00
53	TC	4-Methyl-2-Pentanone	0.905	0.771	14.8	104	0.00
54	TC	trans-1,3-Dichloropene	0.523	0.498	4.8	113	0.01
55	TC	1,1,2-Trichloroethane	0.316	0.349	-10.4	122	0.00
56	S	Toluene-d8	0.931	0.954	-2.5	93	0.00
57		1,3 Dichloropropane	0.433	0.451	-4.2	100	0.00
58	TC	Toluene	1.001	0.907	9.4#	100	0.00
59	TC	2-Hexanone	0.794	0.647	18.5#	99	0.00
60	TC	Dibromochloromethane	0.804	0.860	-7.0#	117	0.00
61	TC	1,2-Dibromoethane	0.545	0.512	6.1	103	0.00
62	TC	Tetrachloroethene	0.538	0.635	-18.0	161#	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
64	TC	1,1,1,2 Tetrachloroethane	1.687	1.830	-8.5	102	0.00
65	TC	Chlorobenzene	2.561	2.767	-8.0	107	0.00
66	TC	Ethylbenzene	4.562	4.108	10.0	89	0.00
67	TC	m,p-xylene	3.535	3.296	6.8	109	0.00
68	TC	Bromoform	2.706	2.913	-7.6#	120	0.00
69	TC	Styrene	2.595	2.695	-3.9	115	0.00
70	TC	1,1,2,2-Tetrachloroethane	2.007	2.225	-10.9	139	0.00
71	TC	o-xylene	3.634	3.445	5.2	98	0.00
72		1,2,3-Trichloropropane	1.826	1.726	5.5	106	0.00
73		Isopropylbenzene	4.912	4.607	6.2	95	0.00
74	S	1,4-Bromofluorobenzene	2.368	2.258	4.6	84	-0.02
75		Bromobenzene	1.852	1.650	10.9	95	-0.02
76		2-Chlorotoluene	1.313	1.628	-24.0	124	0.00
77		n-Propylbenzene	12.058	8.960	25.7	98	0.00
78		4-Chlorotoluene	1.010	2.503	-147.8#	258#	-0.03
79	TC	4-Ethyltoluene	4.729	4.050	14.4#	103	0.03
80	TC	1,3,5-Trimethylbenzene	4.107	3.039	26.0	83	0.02
81	TC	1,2,4-Trimethylbenzene	3.980	2.840	28.6	80	0.02
82		tert-Butylbenzene	4.530	3.529	22.1	93	0.00
83	TC	Benzyl Chloride	3.844	2.831	26.4	97	0.00
84	TC	1,3-Dichlorobenzene	3.392	2.402	29.2#	80	0.00
85	TC	1,4-Dichlorobenzene	2.633	2.797	-6.2	150#	0.02
86		sec-Butylbenzene	5.526	4.842	12.4	96	0.00
87	TC	p-Isopropyltoluene	5.075	4.215	16.9	100	0.00
88	TC	1,2-Dichlorobenzene	2.667	2.831	-6.1	126	0.00
89		n-Butylbenzene	3.839	2.751	28.3	68	0.00
90		1,2 Dibromo-3-chloropropane	1.523	1.319	13.4	91	0.00
91	TC	1,2,4-Trichlorobenzene	2.044	1.794	12.2#	109	0.00
92	TC	Naphthalene	4.086	2.895	29.1	97	0.00
93		1,2,3-Trichlorobenzene	1.714	1.352	21.1	93	0.00
94	TC	Hexachlorobutadiene	1.655	1.563	5.6	127	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\033015\
Data File : CCV-1.D
Acq On : 29 Mar 2015 18:01
Operator : mm
Sample : 50ppbv VOCs
Misc : 1,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 08:10:55 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Mon Mar 30 07:48:49 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.420	130	60606	209.00	ppbv	0.00
42) 1,4-Difluorobenzene	6.218	114	226951	209.00	ppbv	0.00
63) Chlorobenzene-d5	8.272	54	63288	209.00	ppbv	0.00
System Monitoring Compounds						
36) 1,2-Dichloroethane-d4	5.738	65	118824	226.07	ppbv	0.00
Spiked Amount 209.000			Recovery	=	108.17%	
56) Toluene-d8	7.352	98	216542	214.15	ppbv	0.00
Spiked Amount 209.000			Recovery	=	102.46%	
74) 1,4-Bromofluorobenzene	9.077	95	142884	199.31	ppbv	-0.02
Spiked Amount 209.000			Recovery	=	95.36%	

Target Compounds						Qvalue
2) 1,1,1 Trifluoroethane	3.115	65	17165	68.17	ppbv #	20
3) 1,1,1,2 Tetrafluoroethane	3.155	83	20974	62.15	ppbv #	1
4) 1,1-Difluoroethane	3.194	51	16718	50.20	ppbv #	43
5) Propene	3.246	41	14758	65.83	ppbv #	69
6) Dichlorodifluoromethane	3.298	85	45914	52.66	ppbv	94
7) Chloromethane	3.402	50	16993	57.11	ppbv #	53
8) Dichlorotetrafluoroethane	3.454	85	40967	49.82	ppbv	99
9) Vinyl Chloride	3.520	62	14454	52.76	ppbv	100
10) 1,3-Butadiene~39	3.598	39	14846	52.95	ppbv #	69
11) 1,3-Butadiene~54	3.598	54	11503	48.34	ppbv #	69
12) Bromomethane	3.741	94	11509	42.19	ppbv #	75
13) Chloroethane	3.833	64	7276	55.15	ppbv #	88
14) Ethanol	4.080	45	2503	21.72	ppbv #	100
15) Trichlorofluoromethane	4.198	101	55007	52.75	ppbv	100
16) Acetone	4.185	43	8936	18.60	ppbv #	53
17) Isopropyl alcohol	4.341	45	4163	5.79	ppbv	91
18) 1,1-Dichloroethene	4.472	61	29025	57.54	ppbv #	77
19) tert-Butyl Alcohol	4.498	59	40126	49.05	ppbv #	83
20) Methylene Chloride	4.511	84	11761	62.03	ppbv #	86
21) 1,1,2-Trichlorotrifluo...	4.628	101	27367	45.26	ppbv #	91
22) Carbon Disulfide	4.693	76	34878	51.41	ppbv #	90
23) trans-1,2-Dichloroethene	4.915	61	25600	53.97	ppbv #	75
24) 1,1-Dichloroethane	4.993	63	30368	52.89	ppbv #	90
25) Methyl tert-Butyl Ether	5.032	73	40709	47.77	ppbv #	77
26) Vinyl Acetate	5.032	43	48483	41.85	ppbv #	90
27) 2-Butanone	5.202	72	4431	44.68	ppbv #	46
28) cis-1,2-dichloroethene	5.340	61	20130	45.49	ppbv #	82
29) Di-Isopropyl Ether	5.408	45	62418	46.56	ppbv #	33
30) Ethyl Acetate	5.420	43	80451	48.30	ppbv #	94
31) n-Hexane	5.431	57	21703	50.86	ppbv	95
32) Chloroform	5.465	83	37105	56.21	ppbv #	58
33) 2,2 Dichloropropane	5.488	77	38984	56.92	ppbv #	87
34) Ethyl tert-Butyl Ether	5.636	59	53037	48.99	ppbv #	85
35) Tetrahydrofuran	5.681	71	5581	56.13	ppbv	87
37) 1,2-Dichloroethane	5.784	62	31642	56.94	ppbv #	96
38) 1,1,1-Trichloroethane	5.909	97	45173	54.24	ppbv #	89
39) 1,1-Dichloropropene	6.034	75	25111	51.14	ppbv	99
40) Benzene	6.101	78	34004	48.76	ppbv	96
41) Carbon Tetrachloride	6.174	117	58546	63.39	ppbv #	96
43) Cyclohexane	6.233	84	16463	48.29	ppbv #	68
44) tert-Amyl Methyl Ether	6.346	73	39962	45.14	ppbv #	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\033015\
Data File : CCV-1.D
Acq On : 29 Mar 2015 18:01
Operator : mm
Sample : 50ppbv VOCs
Misc : 1,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 08:10:55 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Mon Mar 30 07:48:49 2015
Response via : Initial Calibration

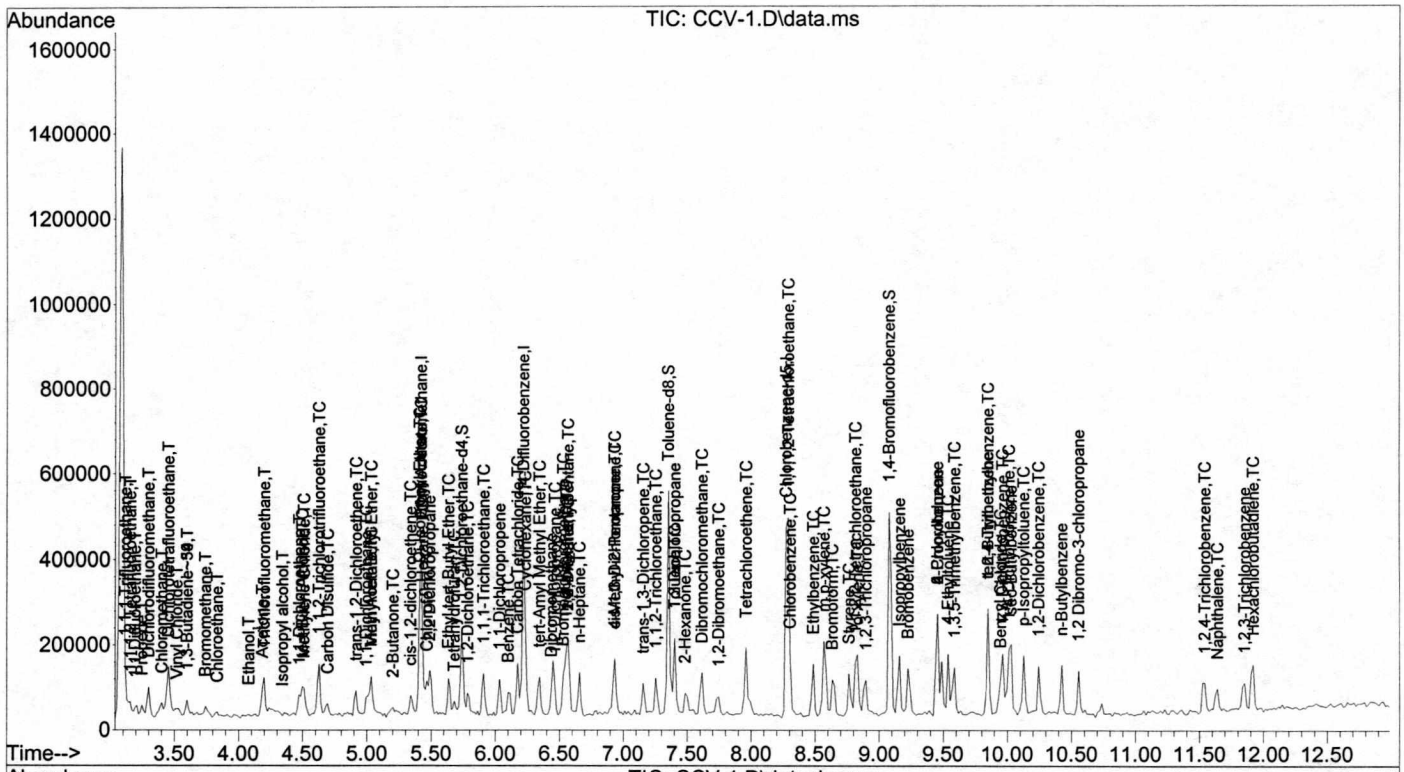
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
45) Dibromomethane	6.437	93	17842	50.16 ppbv #	66
46) 1,2-Dichloropropane	6.463	63	16476	54.76 ppbv #	63
47) Bromodichloromethane	6.529	83	44566	55.18 ppbv #	83
48) Trichloroethene	6.555	95	21452	52.56 ppbv #	73
49) 1,4-Dioxane	6.568	58	7969	42.95 ppbv #	95
50) 2,2,4-Trimethylpentane	6.568	57	73573	49.06 ppbv	100
51) n-Heptane	6.659	71	13402	54.52 ppbv #	83
52) cis-1,3-Dichloropropene	6.933	75	23332	44.15 ppbv #	88
53) 4-Methyl-2-Pentanone	6.933	43	41853	42.60 ppbv #	93
54) trans-1,3-Dichloropene	7.155	75	27019	47.61 ppbv #	86
55) 1,1,2-Trichloroethane	7.253	97	18933	55.13 ppbv #	82
57) 1,3 Dichloropropane	7.401	76	24466	52.06 ppbv #	82
58) Toluene	7.401	91	49223	45.29 ppbv	91
59) 2-Hexanone	7.483	43	35145	40.75 ppbv #	85
60) Dibromochloromethane	7.615	129	46690	53.46 ppbv #	86
61) 1,2-Dibromoethane	7.746	107	27782	46.97 ppbv	81
62) Tetrachloroethene	7.960	166	34504	59.04 ppbv #	83
64) 1,1,1,2 Tetrachloroethane	8.288	131	27714m	54.24 ppbv	
65) Chlorobenzene	8.305	112	41899	54.04 ppbv	92
66) Ethylbenzene	8.485	91	62196	45.02 ppbv #	83
67) m,p-xylene	8.567	91	99810	93.25 ppbv #	85
68) Bromoform	8.633	173	44109	53.83 ppbv	82
69) Styrene	8.765	104	40809	51.93 ppbv #	87
70) 1,1,2,2-Tetrachloroethane	8.814	83	33690	55.45 ppbv #	94
71) o-xylene	8.830	91	52153	47.40 ppbv #	80
72) 1,2,3-Trichloropropane	8.896	75	26132	47.26 ppbv #	64
73) Isopropylbenzene	9.159	105	69750	46.89 ppbv #	84
75) Bromobenzene	9.224	156	24980	44.54 ppbv #	27
76) 2-Chlorotoluene	9.454	126	24647	61.99 ppbv #	38
77) n-Propylbenzene	9.454	91	135666	37.15 ppbv	94
78) 4-Chlorotoluene	9.454	126	37900	123.93 ppbv #	52
79) 4-Ethyltoluene	9.537	105	61322	42.82 ppbv	97
80) 1,3,5-Trimethylbenzene	9.586	105	46006	36.99 ppbv #	85
81) 1,2,4-Trimethylbenzene	9.849	105	42997	35.67 ppbv #	56
82) tert-Butylbenzene	9.849	119	53435	38.96 ppbv	97
83) Benzyl Chloride	9.947	91	42869	36.83 ppbv	93
84) 1,3-Dichlorobenzene	9.964	146	36365	35.40 ppbv	96
85) 1,4-Dichlorobenzene	10.013	146	42345	53.11 ppbv #	82
86) sec-Butylbenzene	10.029	105	73307	43.80 ppbv #	78
87) p-Isopropyltoluene	10.128	119	63813	41.52 ppbv	94
88) 1,2-Dichlorobenzene	10.243	146	42859	53.06 ppbv #	84
89) n-Butylbenzene	10.424	91	41657	35.84 ppbv #	89
90) 1,2 Dibromo-3-chloropr...	10.555	75	19974	43.32 ppbv #	74
91) 1,2,4-Trichlorobenzene	11.541	180	27168	43.89 ppbv	97
92) Naphthalene	11.639	128	43832m	35.43 ppbv	
93) 1,2,3-Trichlorobenzene	11.853	180	20475	39.46 ppbv	93
94) Hexachlorobutadiene	11.918	225	23670	47.24 ppbv	92

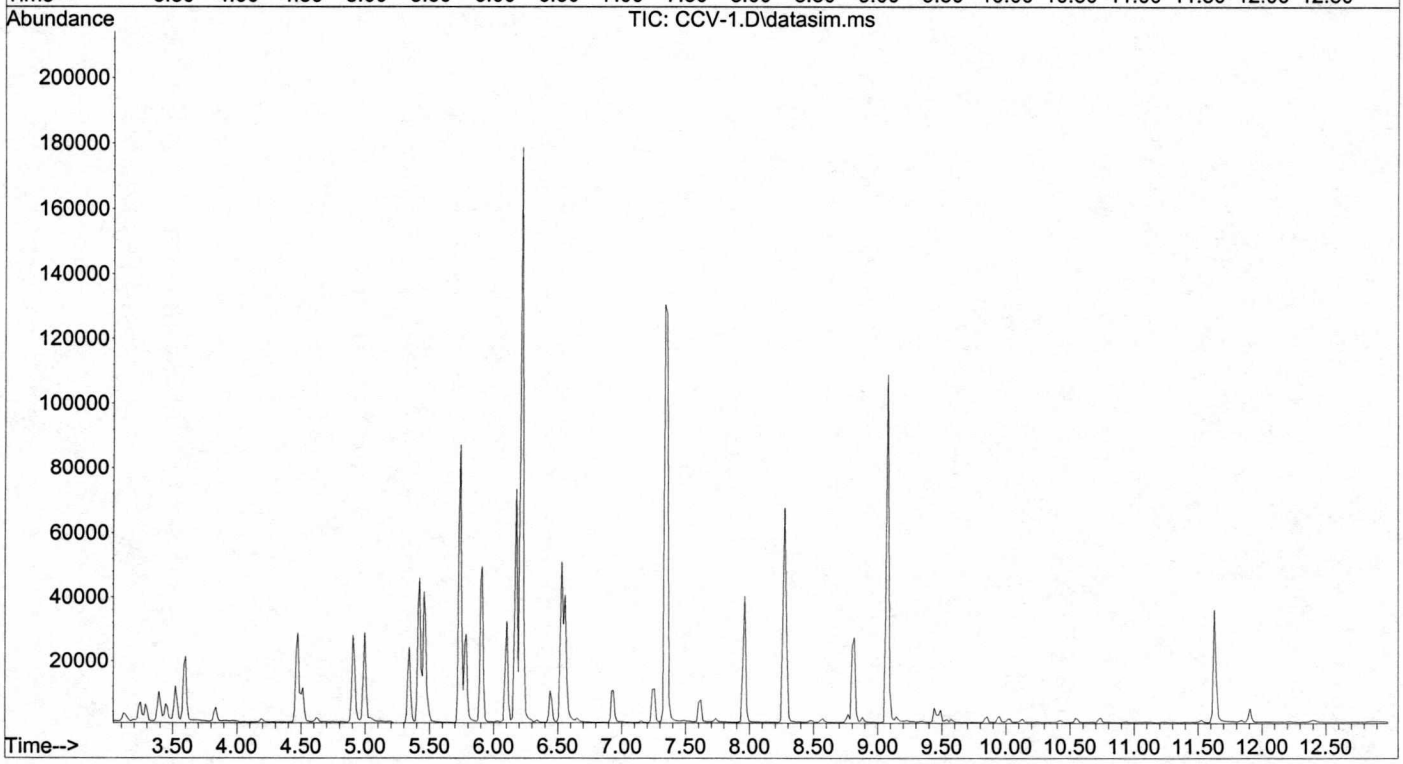
(#) = qualifier out of range (m) = manual integration (+) = signals summed

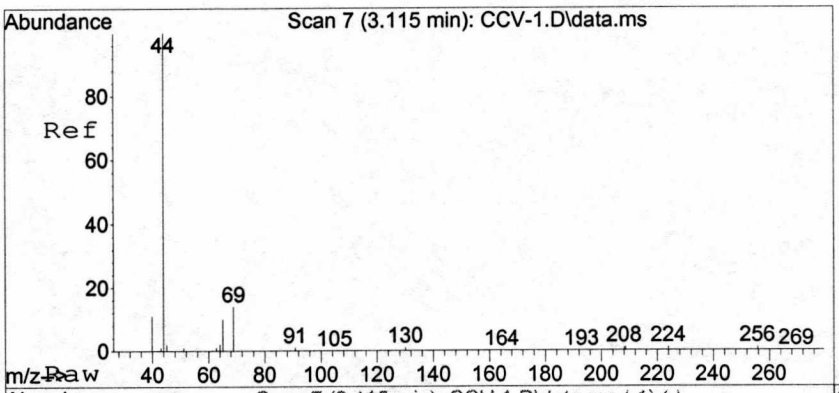
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\033015\
Data File : CCV-1.D
Acq On : 29 Mar 2015 18:01
Operator : mm
Sample : 50ppbv VOCs
Misc : 1,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 08:10:55 2015
Quant Method : C:\msdchem\1\METHODS\022015VOC_TO15 .M
Quant Title : TO-15 SV GC/MS#10
QLast Update : Mon Mar 30 07:48:49 2015
Response via : Initial Calibration



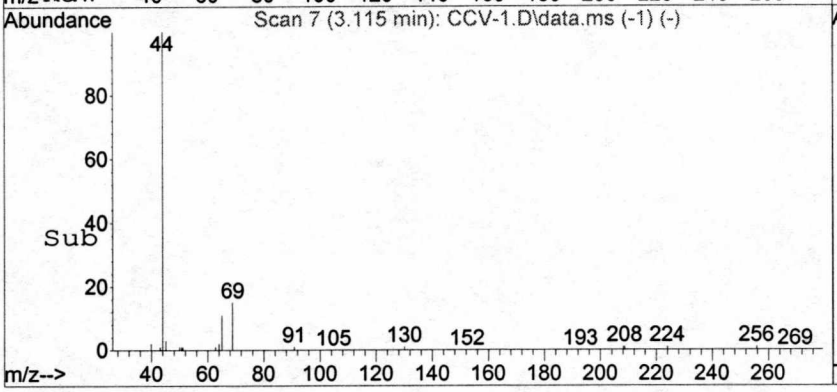


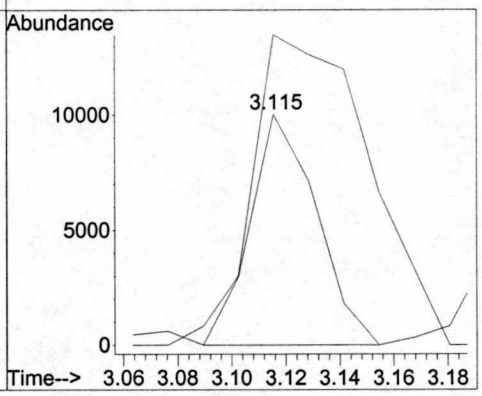


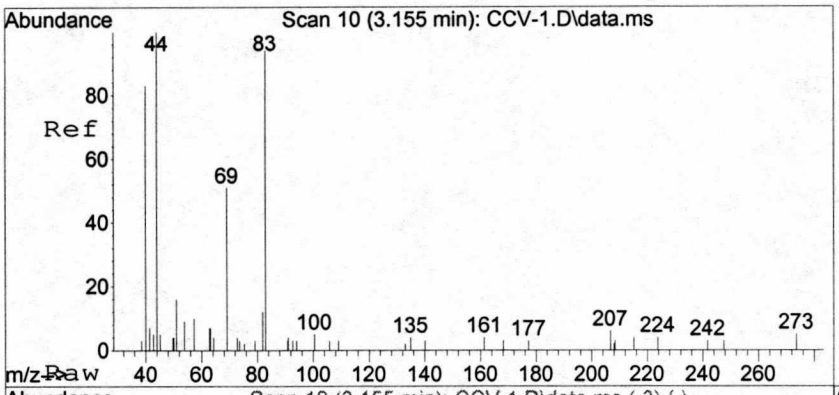
#2
1,1,1 Trifluoroethane
Concen: 68.17 ppbv
RT: 3.115 min Scan# 7
Delta R.T. -0.026 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 65 Resp: 17165

Ion	Ratio	Lower	Upper
65	100		
69	236.8	111.8	167.6#



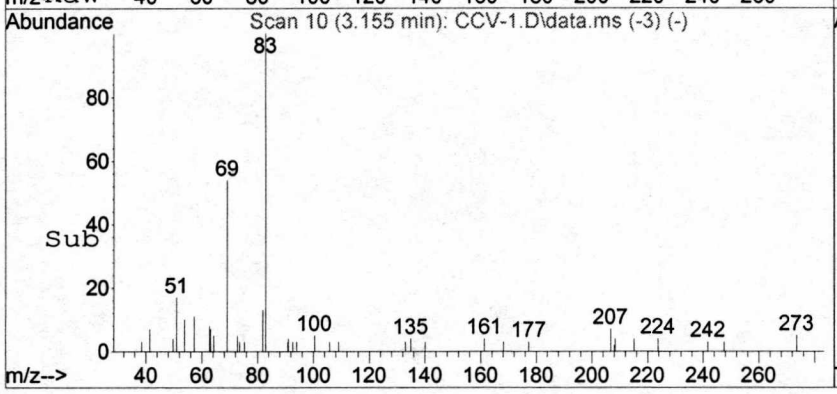


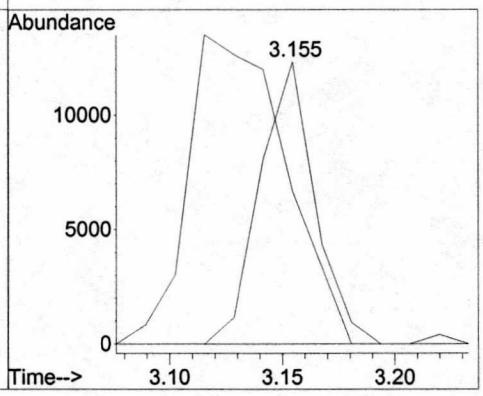


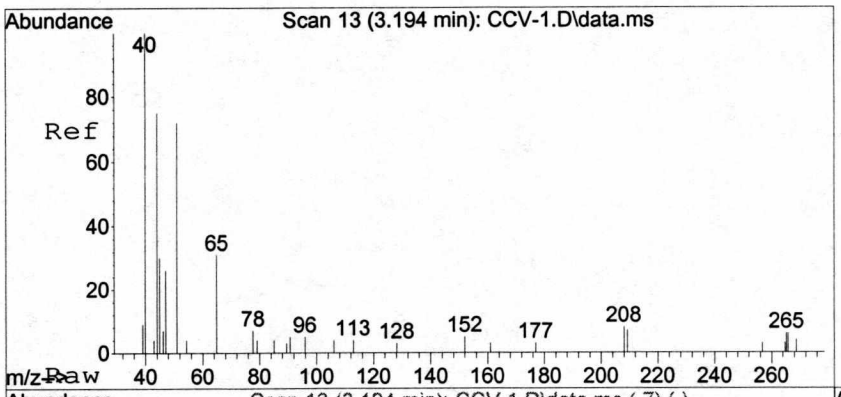
#3
1,1,1,2 Tetrafluoroethane
Concen: 62.15 ppbv
RT: 3.155 min Scan# 10
Delta R.T. -0.013 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 83 Resp: 20974

Ion	Ratio	Lower	Upper
83	100		
69	190.7	46.4	69.6#



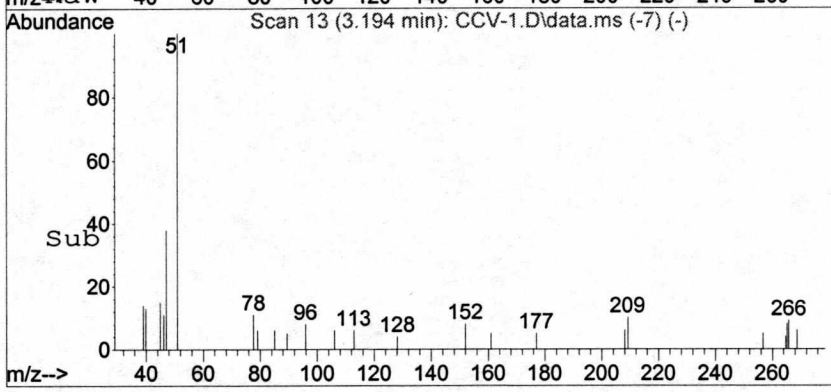


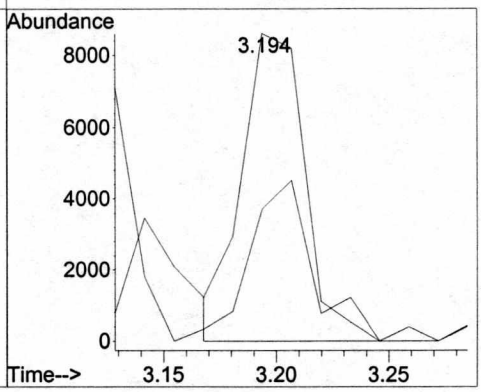


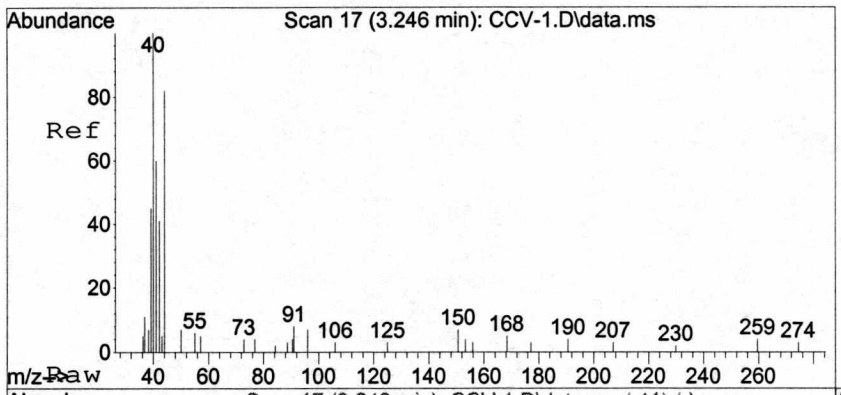
#4
1,1-Difluoroethane
Concen: 50.20 ppbv
RT: 3.194 min Scan# 13
Delta R.T. -0.026 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 51 Resp: 16718

Ion	Ratio	Lower	Upper
51	100		
65	53.2	19.8	29.6#



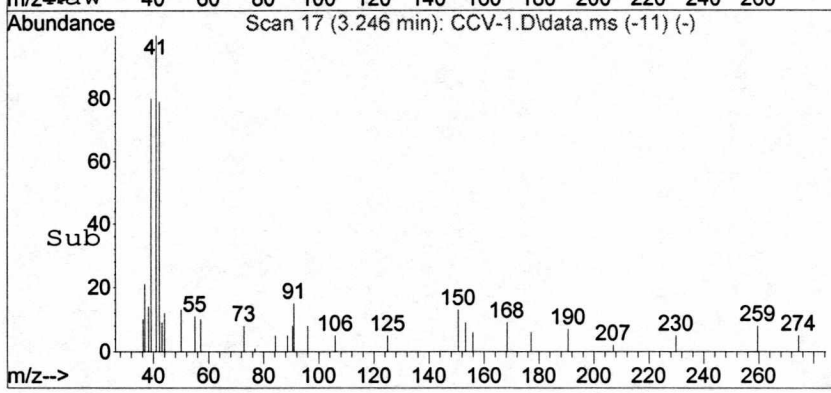


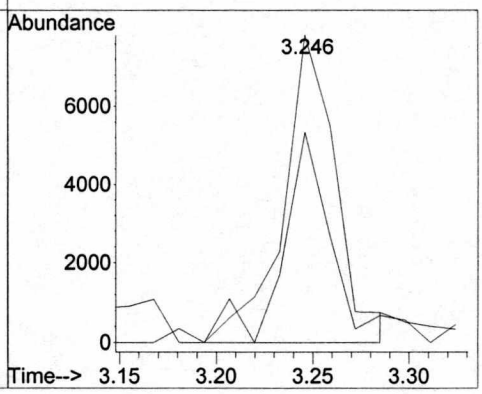


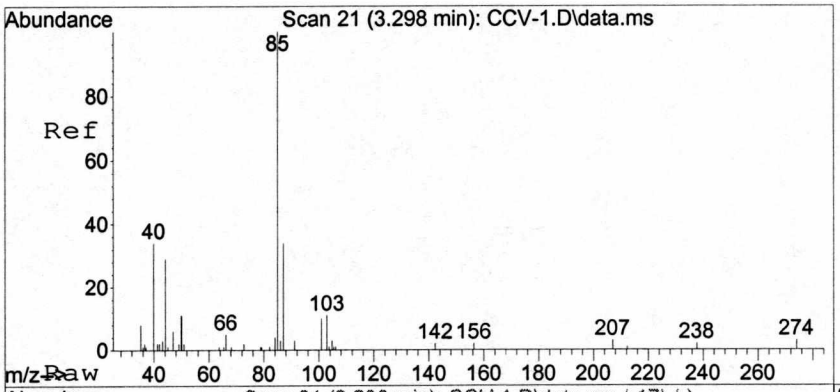
#5
Propene
Concen: 65.83 ppbv
RT: 3.246 min Scan# 17
Delta R.T. -0.026 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 41 Resp: 14758

Ion	Ratio	Lower	Upper
41	100		
42	53.2	65.0	97.4#



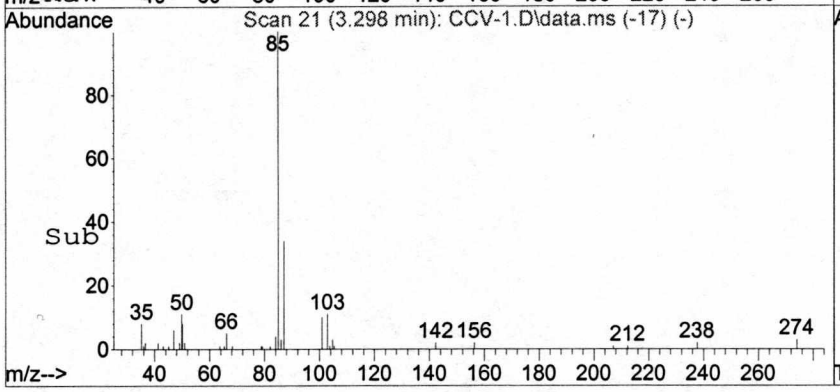


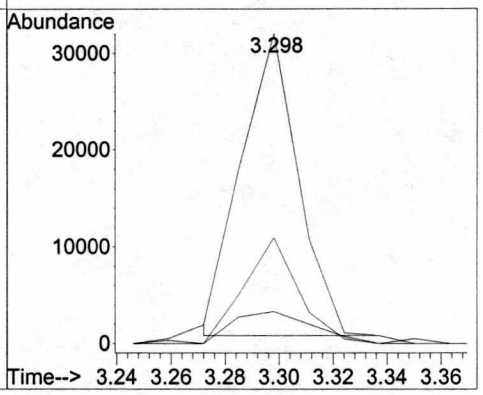


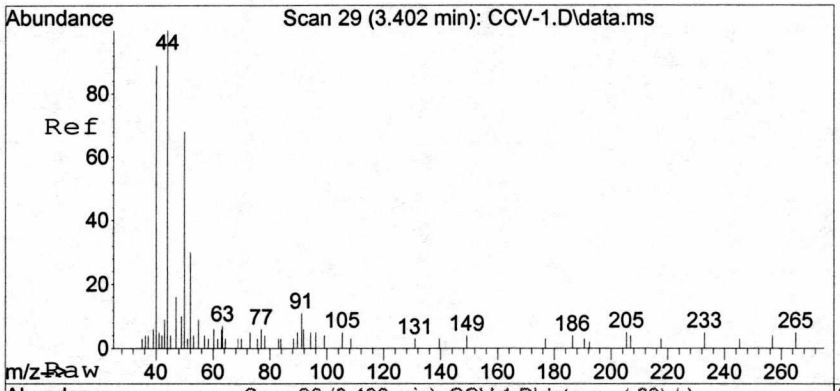
#6
Dichlorodifluoromethane
Concen: 52.66 ppbv
RT: 3.298 min Scan# 21
Delta R.T. -0.013 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 85 Resp: 45914

Ion	Ratio	Lower	Upper
85	100		
87	33.5	23.4	35.0
101	14.9	11.2	16.8



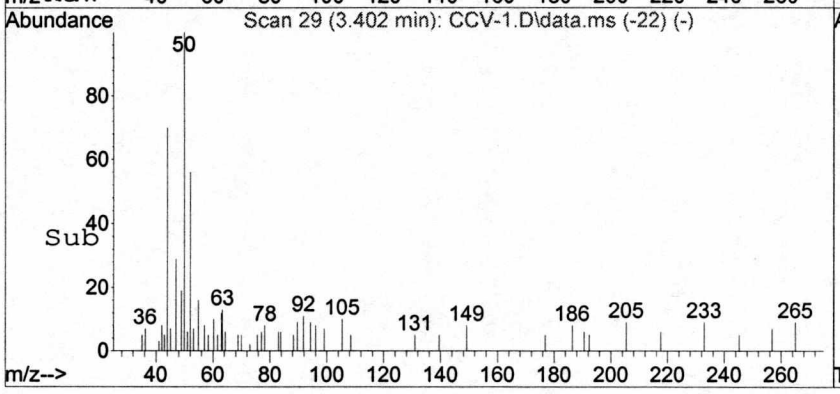


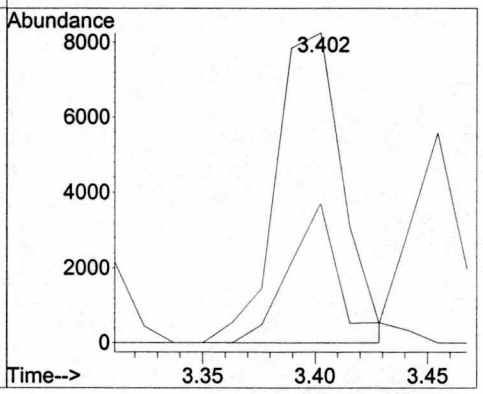


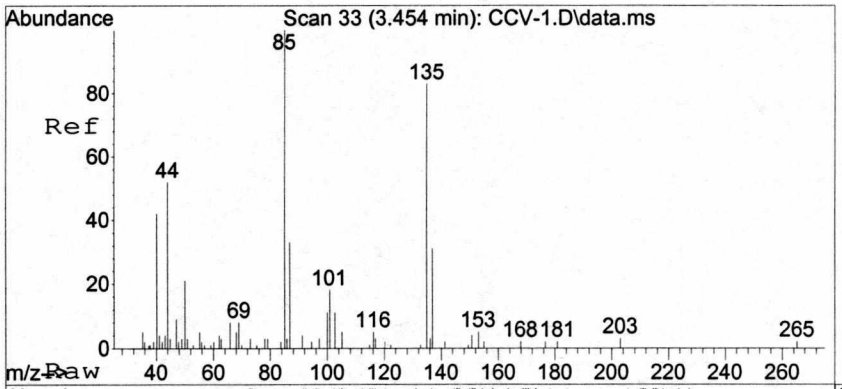
#7
Chloromethane
Concen: 57.11 ppbv
RT: 3.402 min Scan# 29
Delta R.T. -0.013 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 50 Resp: 16993

Ion	Ratio	Lower	Upper
50	100		
52	31.6	10.2	15.4#



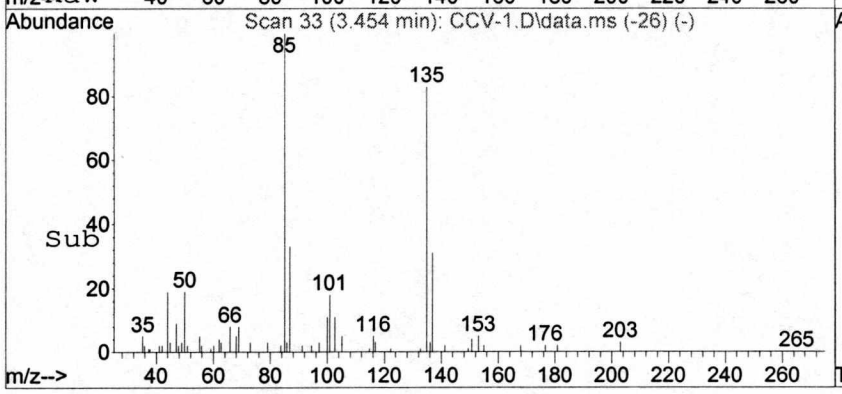


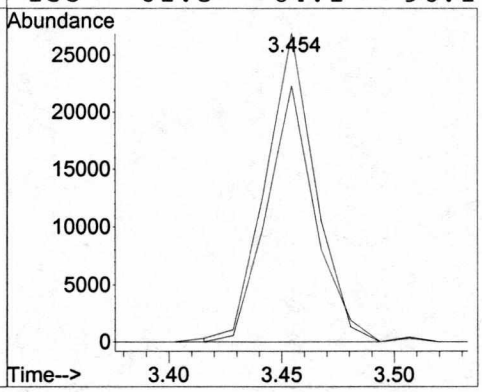


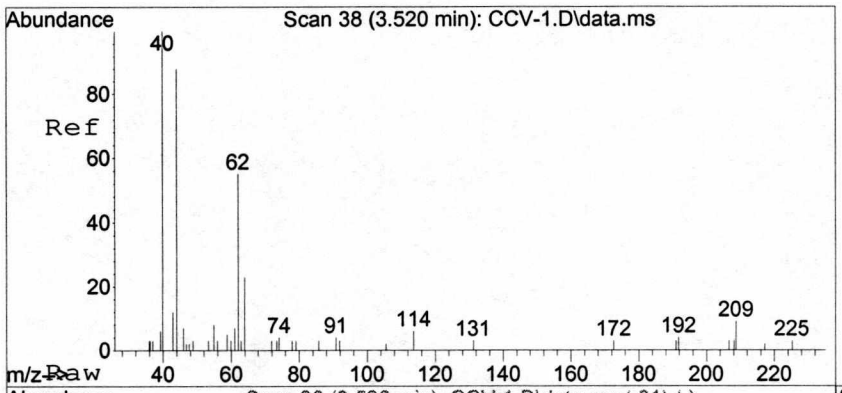
#8
Dichlorotetrafluoroethane
Concen: 49.82 ppbv
RT: 3.454 min Scan# 33
Delta R.T. -0.013 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 85 Resp: 40967

Ion	Ratio	Lower	Upper
85	100		
135	81.3	64.1	96.1
85	100.0	80.0	120.0
135	81.3	64.1	96.1



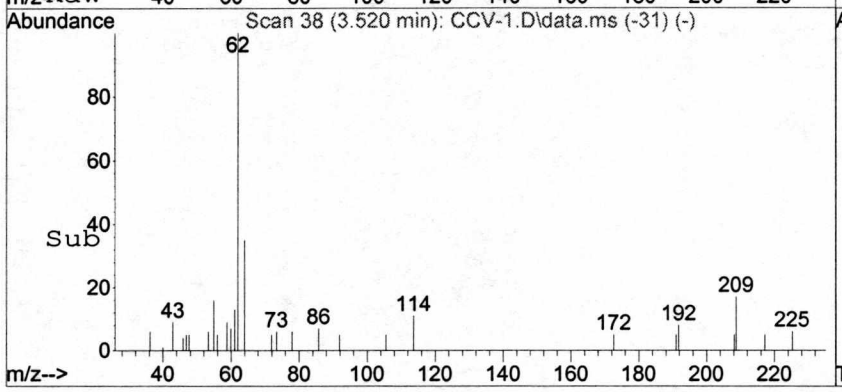


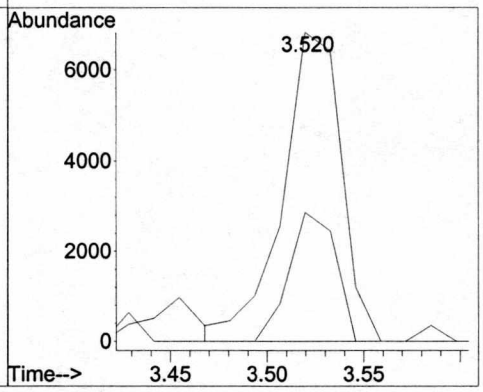


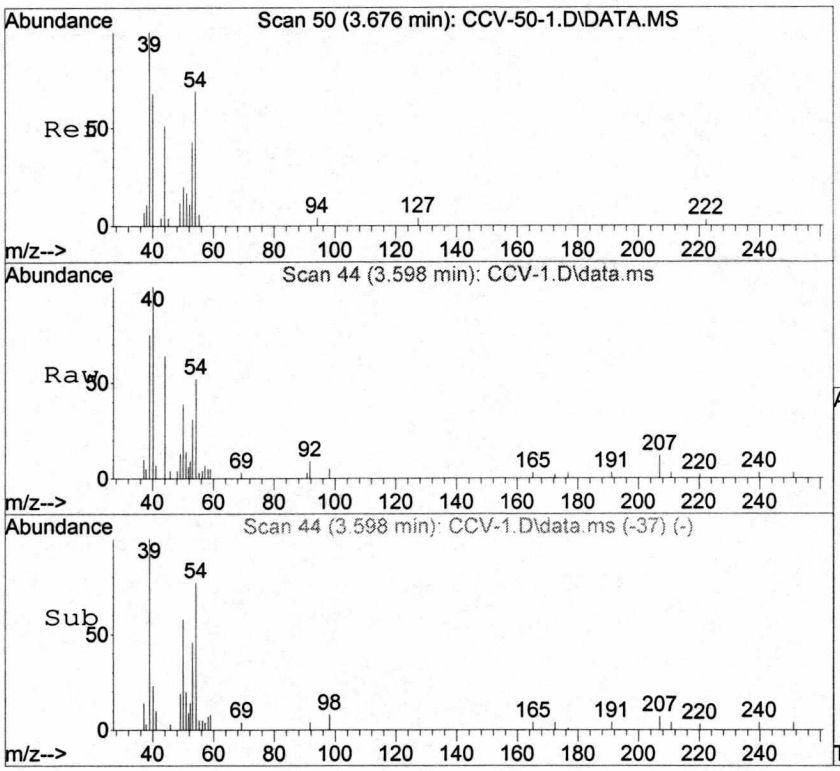
#9
Vinyl Chloride
Concen: 52.76 ppbv
RT: 3.520 min Scan# 38
Delta R.T. -0.013 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 62 Resp: 14454

Ion	Ratio	Lower	Upper
62	100		
64	33.3	26.6	39.8



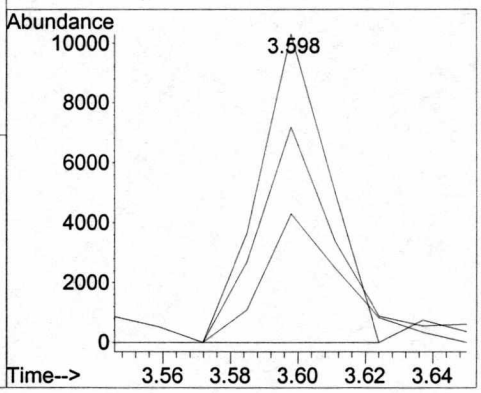


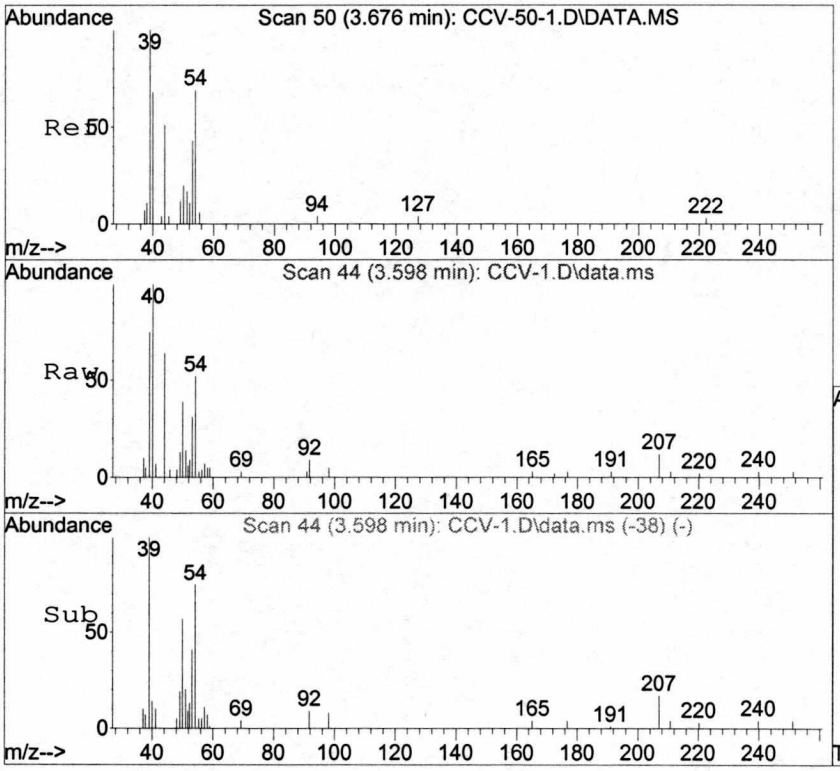


#10
1,3-Butadiene~39
Concen: 52.95 ppbv
RT: 3.598 min Scan# 44
Delta R.T. -0.013 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 39 Resp: 14846

Ion	Ratio	Lower	Upper
39	100		
54	77.5	42.2	63.4#
53	47.7	26.4	39.6#

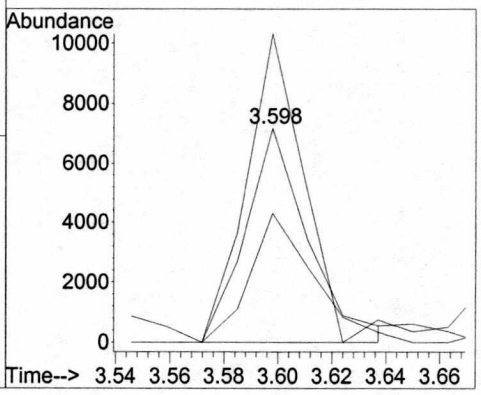


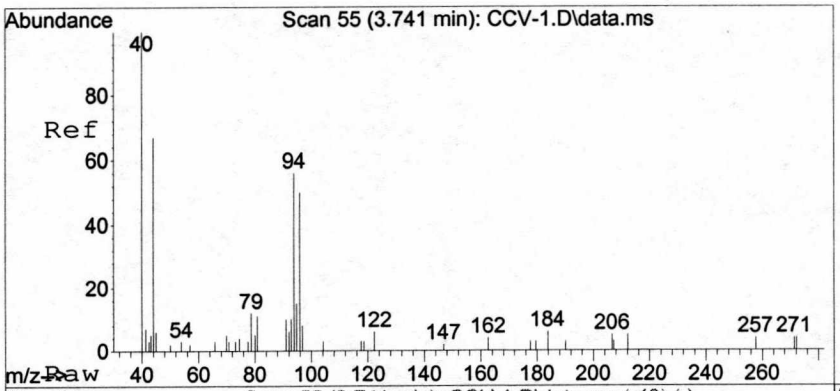


#11
1,3-Butadiene~54
Concen: 48.34 ppbv
RT: 3.598 min Scan# 44
Delta R.T. -0.013 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 54 Resp: 11503

Ion	Ratio	Lower	Upper
54	100		
39	129.1	151.6	227.4#
53	61.5	50.0	75.0

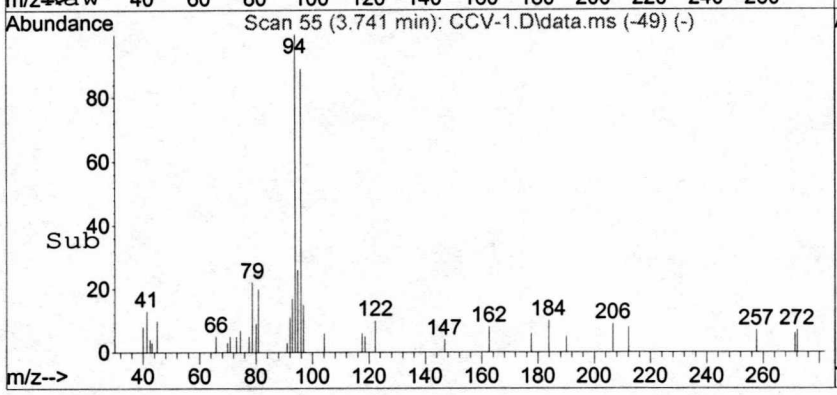


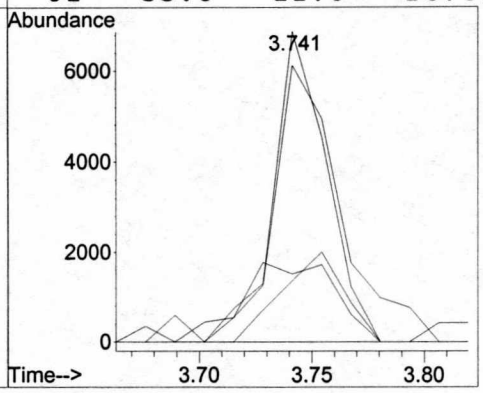


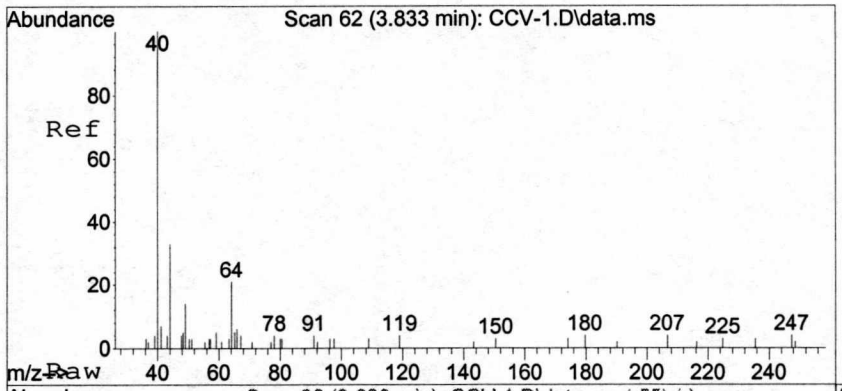
#12
Bromomethane
Concen: 42.19 ppbv
RT: 3.741 min Scan# 55
Delta R.T. -0.026 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 94 Resp: 11509

Ion	Ratio	Lower	Upper
94	100		
96	114.5	78.8	118.2
79	41.9	12.5	18.7#
81	33.8	11.0	16.6#



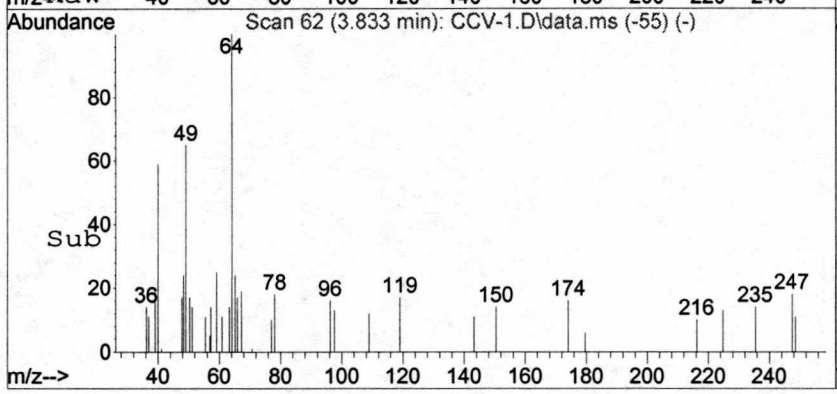


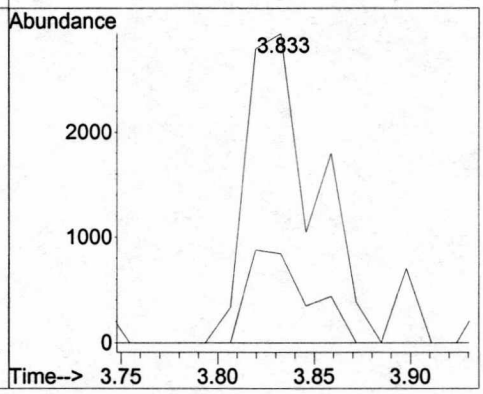


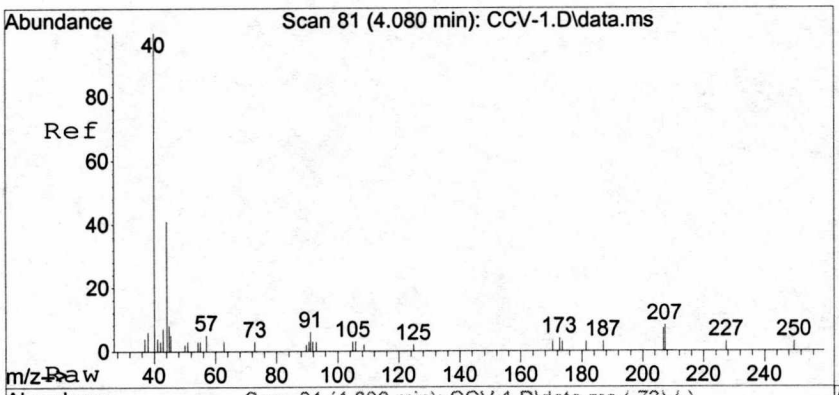
#13
Chloroethane
Concen: 55.15 ppbv
RT: 3.833 min Scan# 62
Delta R.T. -0.013 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 64 Resp: 7276

Ion	Ratio	Lower	Upper
64	100		
66	26.9	17.1	25.7#



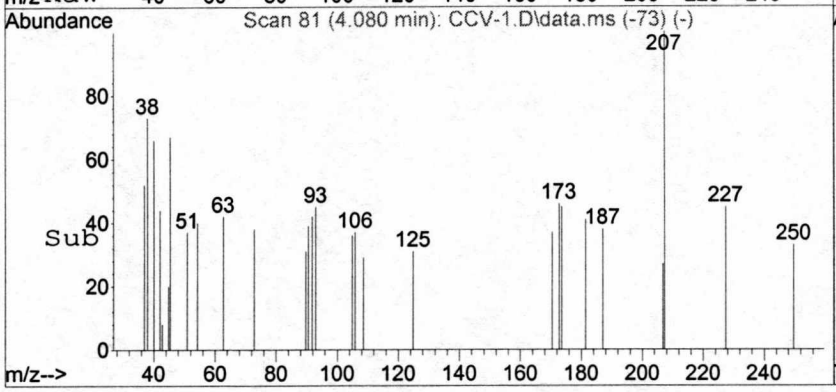


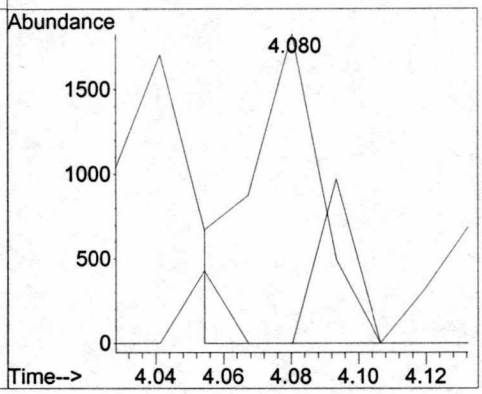


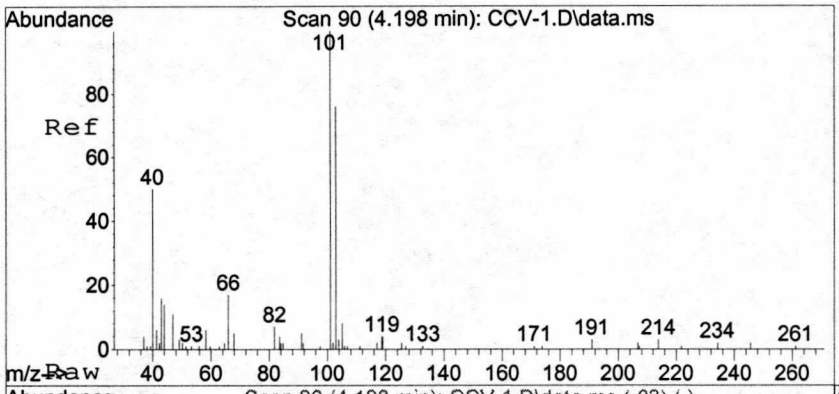
#14
Ethanol
Concen: 21.72 ppbv
RT: 4.080 min Scan# 81
Delta R.T. 0.000 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 45 Resp: 2503

Ion	Ratio	Lower	Upper
45	100		
46	0.0	0.0	0.0



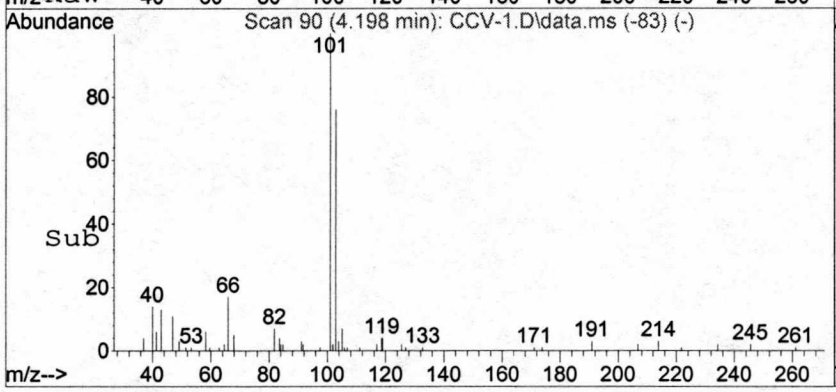


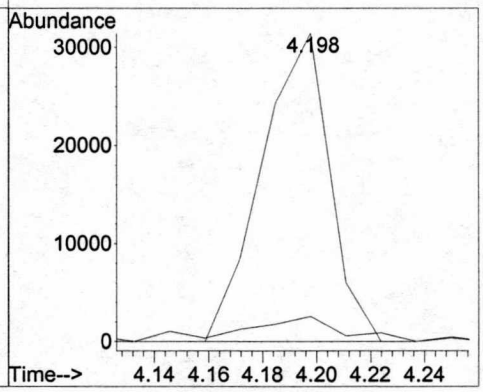


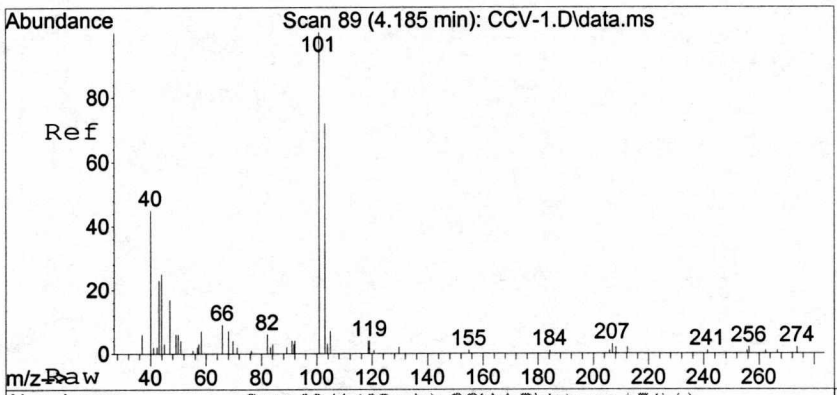
#15
Trichlorofluoromethane
Concen: 52.75 ppbv
RT: 4.198 min Scan# 90
Delta R.T. -0.013 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion:101 Resp: 55007

Ion	Ratio	Lower	Upper
101	100		
105	10.7	8.6	12.8



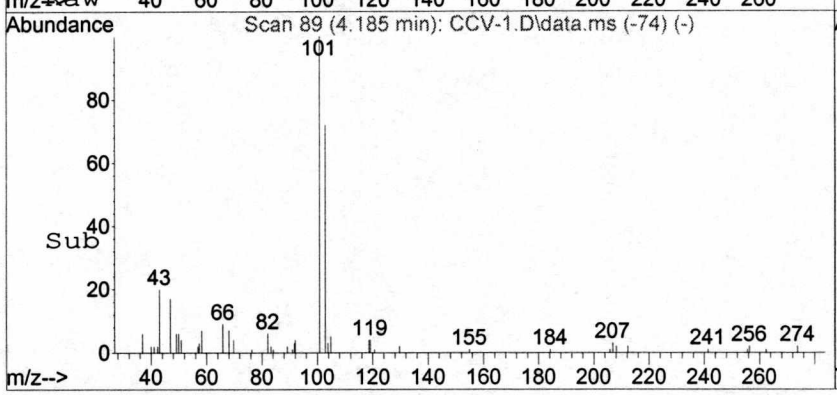


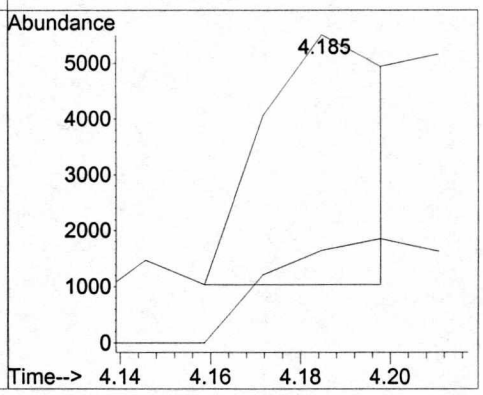


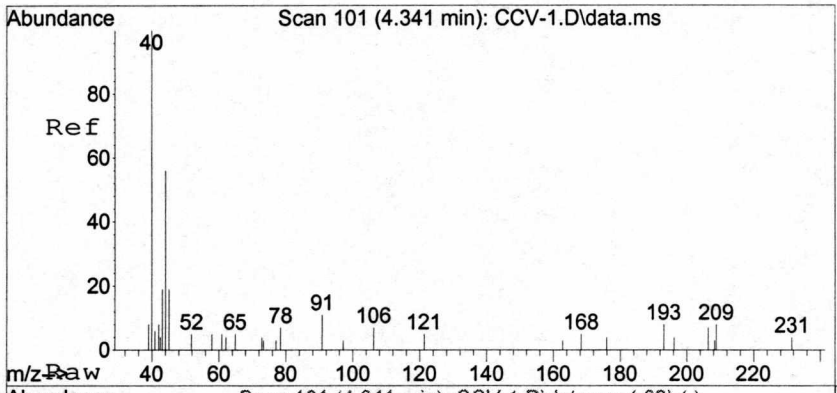
#16
Acetone
Concen: 18.60 ppbv
RT: 4.185 min Scan# 89
Delta R.T. 0.000 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 43 Resp: 8936

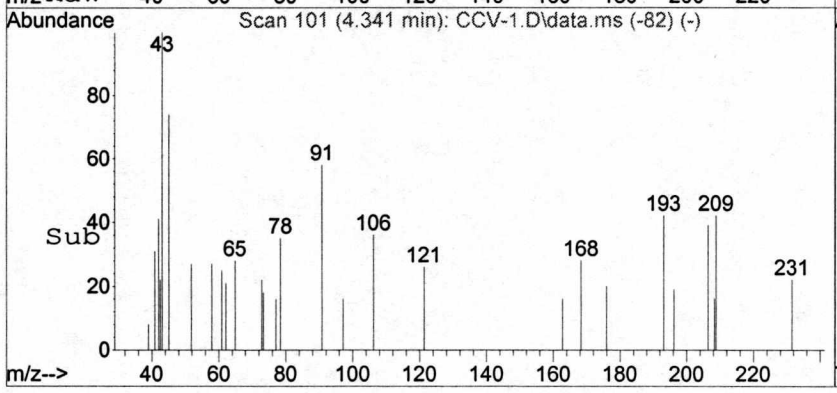
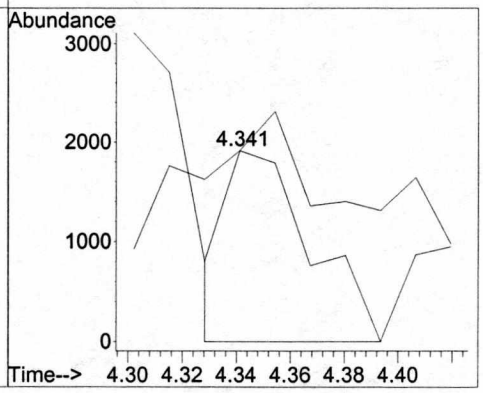
Ion	Ratio	Lower	Upper
43	100		
58	55.4	23.9	35.9#







#17
Isopropyl alcohol
Concen: 5.79 ppbv
RT: 4.341 min Scan# 101
Delta R.T. 0.091 min
Lab File: CCV-1.D
Acq: 29 Mar 2015 18:01

Tgt Ion: 45 Resp: 4163

Ion	Ratio	Lower	Upper
45	100		
43	35.7	33.0	49.6