

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
 Data File : VL033217.D
 Acq On : 15 Feb 2019 3:31
 Operator : SY/AP
 Sample : K1483-10
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 04:21:50 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019

QLast Update : Wed Feb 06 09:13:11 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	915064	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	2041921	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2034225	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1617049	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	95227	0.544	ppbv	96
3) Chlorodifluoromethane	3.02	51	42882	0.389	ppbv	100
4) Chloromethane	3.17	50	4912	0.084	ppbv #	42
5) Vinyl Chloride	3.29	62	3311	0.054	ppbv	91
7) Chloroethane	3.60	64	148873	7.496	ppbv	99
9) Propene	3.24	41	200806	3.773	ppbv	94
10) Heptane	8.26	43	17028	0.106	ppbv #	80
11) Trichlorofluoromethane	4.00	101	291518	2.058	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1176378	11.984	ppbv	100
13) Ethanol	3.66	45	33652	1.896	ppbv	95
15) Acetone	3.92	43	314007	3.046	ppbv #	84
16) 1,3-Butadiene	3.39	39	19241	0.393	ppbv #	7
17) tert-Butyl alcohol	4.40	59	6052	0.308	ppbv #	1
18) 1,1-Dichloroethene	4.35	96	1323679	30.125	ppbv	97
19) Isopropyl Alcohol	4.04	45	48091	0.688	ppbv #	94
20) Methylene Chloride	4.41	84	113349	2.764	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	8419	0.197	ppbv #	77
24) 1,1-Dichloroethane	5.10	63	15160814	119.961	ppbv #	94
25) Ethyl Acetate	5.78	43	48216	0.208	ppbv #	81
26) Hexane	5.78	57	66682	0.613	ppbv #	41
27) Carbon Disulfide	4.62	76	16283	0.163	ppbv #	38
29) Chloroform	5.86	83	73179	0.439	ppbv	90
31) cis-1,2-Dichloroethene	5.65	61	88666	0.814	ppbv	96
34) 2-Butanone	5.37	43	28960	0.224	ppbv	98
35) Carbon Tetrachloride	6.66	117	4815686	30.881	ppbv	94
36) Benzene	7.03	78	26048	0.126	ppbv #	92
37) 1,2-Dichloroethane	6.44	62	113889	0.993	ppbv #	82
38) Trichloroethene	7.98	130	235598	2.658	ppbv	95
39) 1,2-Dichloropropane	7.31	63	557989	6.827	ppbv #	27
40) 1,4-Dioxane	8.00	88	1238	0.042	ppbv #	1
41) Tetrahydrofuran	6.20	42	3955	0.049	ppbv #	57
44) 2,2,4-Trimethylpentane	8.01	57	95126	0.271	ppbv #	87
47) 1,1,2-Trichloroethane	9.63	97	67620	0.797	ppbv	96
50) 4-Methyl-2-Pentanone	8.90	43	6395	0.031	ppbv #	78
52) Tetrachloroethene	11.38	164	531852	6.689	ppbv	97
53) Toluene	9.96	91	164384	0.671	ppbv	99
58) Ethyl Benzene	12.87	91	170384	0.518	ppbv	99
59) m/p-Xylene	13.12	91	797109	2.901	ppbv #	100
60) o-Xylene	13.85	91	205038	0.767	ppbv	97
72) 4-Ethyltoluene	16.00	105	26089	0.085	ppbv #	90
74) 1,2,4-Trimethylbenzene	16.93	105	112448	0.368	ppbv #	76

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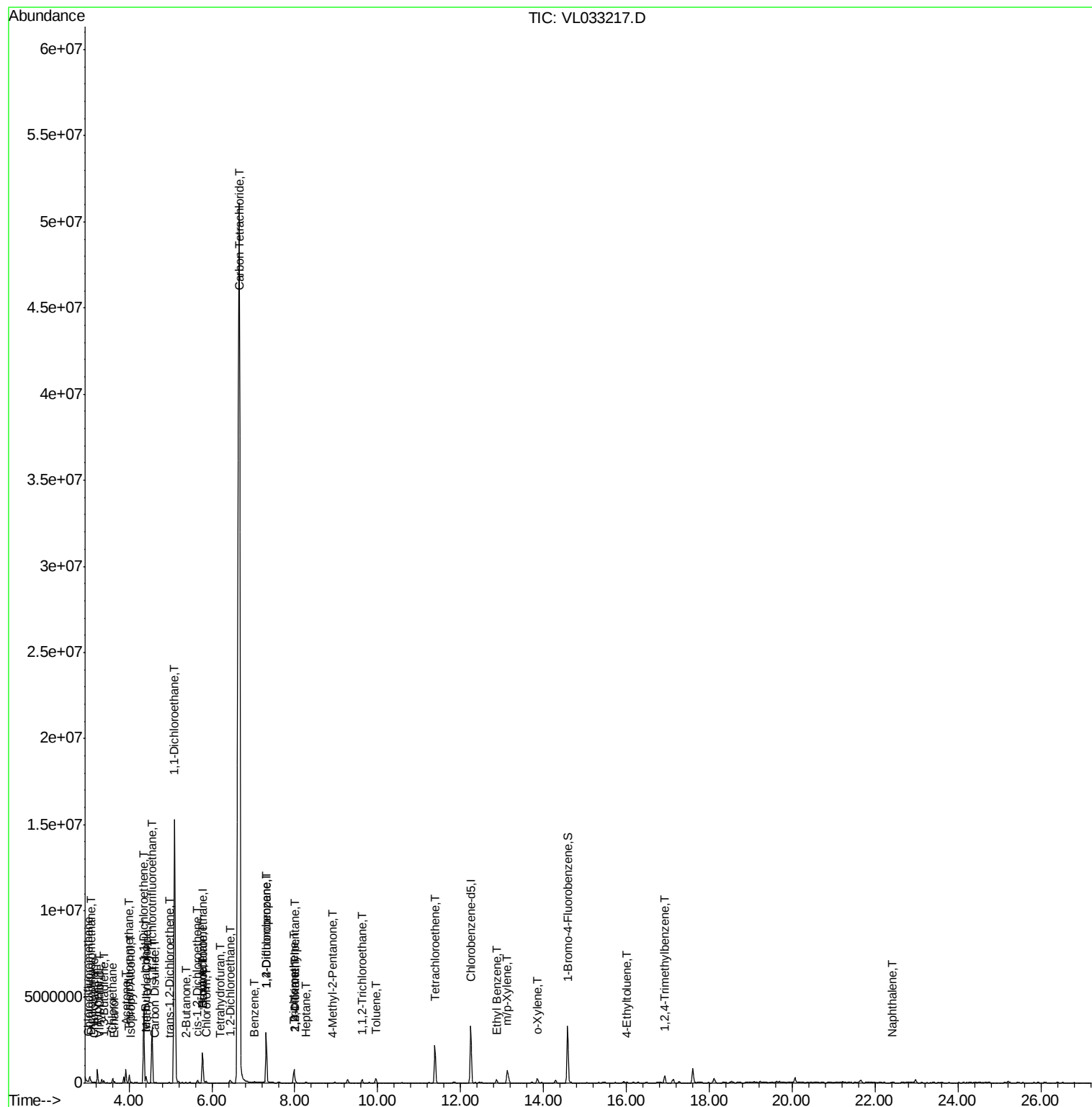
Quant Time: Feb 15 04:21:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration

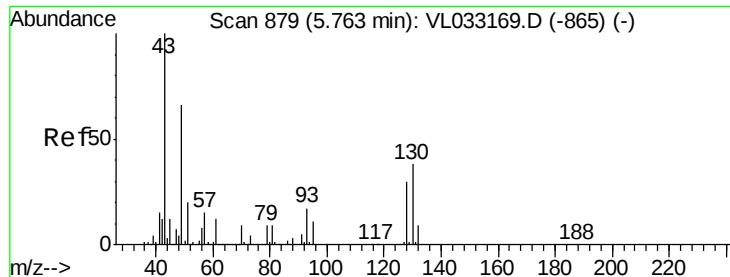
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) Naphthalene	22.42	128	14467	0.044	ppbv	98

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033217.D

Acq: 15 Feb 2019 3:31

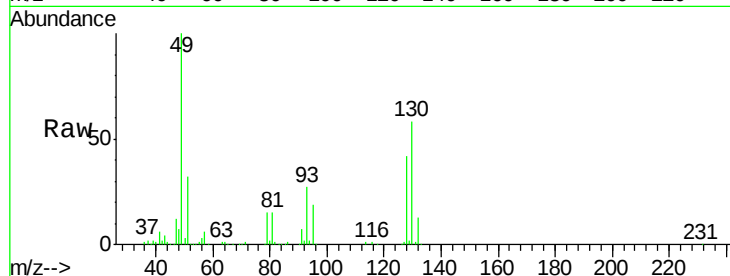
Tgt Ion: 49 Resp: 915064

Ion Ratio Lower Upper

49 100

128 44.5 23.6 71.0

130 57.7 30.3 91.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.77

400000

300000

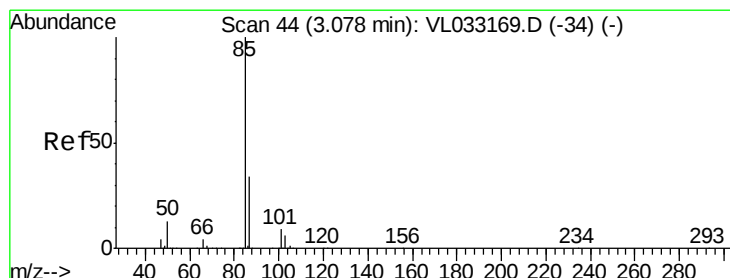
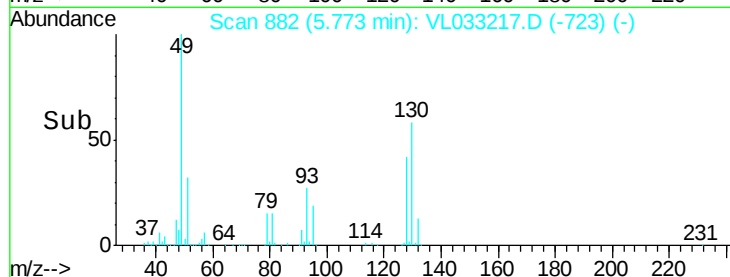
200000

100000

0

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 0.544 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033217.D

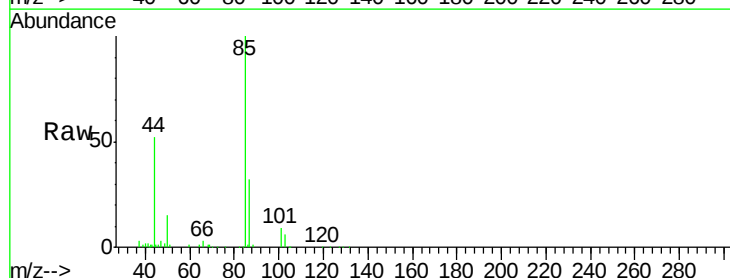
Acq: 15 Feb 2019 3:31

Tgt Ion: 85 Resp: 95227

Ion Ratio Lower Upper

85 100

87 32.2 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

80000

60000

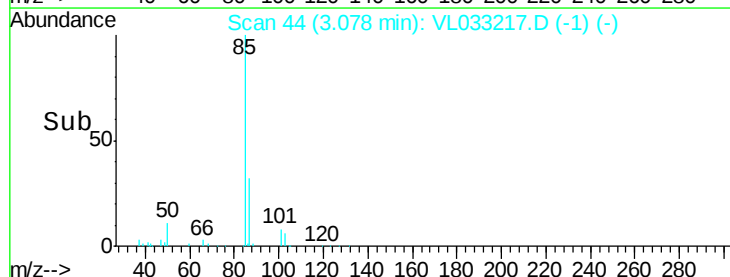
40000

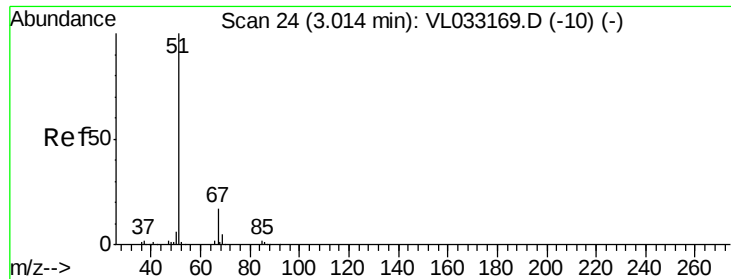
20000

0

3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 0.389 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033217.D

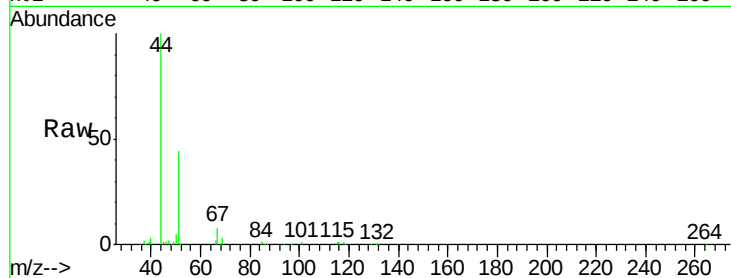
Acq: 15 Feb 2019 3:31

Tgt Ion: 51 Resp: 42882

Ion Ratio Lower Upper

51 100

67 17.7 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.02

30000

25000

20000

15000

10000

5000

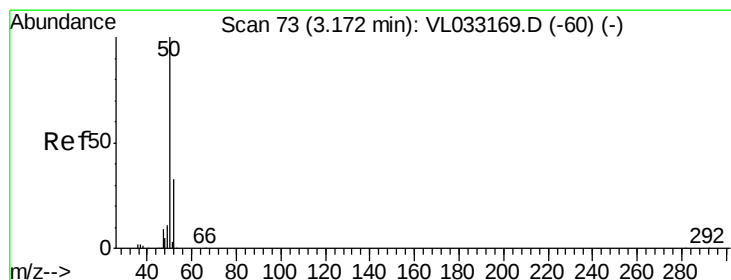
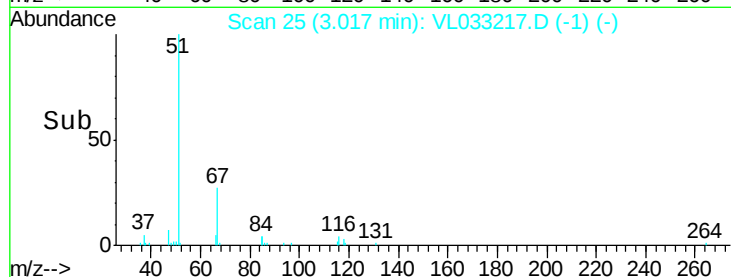
0

Time-->

2.95

3.00

3.05



#4

Chloromethane

Concen: 0.084 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033217.D

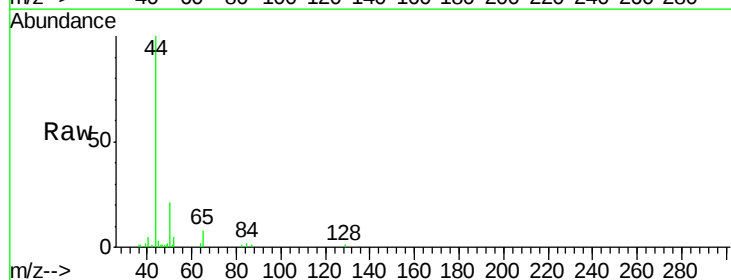
Acq: 15 Feb 2019 3:31

Tgt Ion: 50 Resp: 4912

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

5000

4000

3000

2000

1000

0

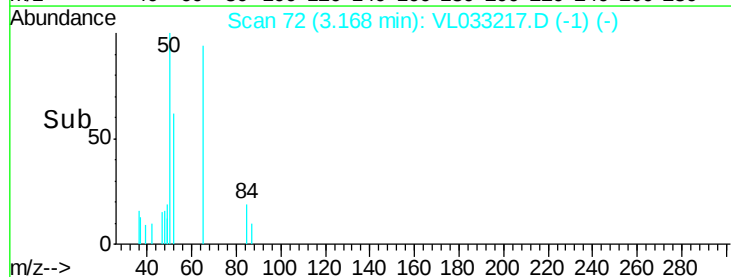
Time-->

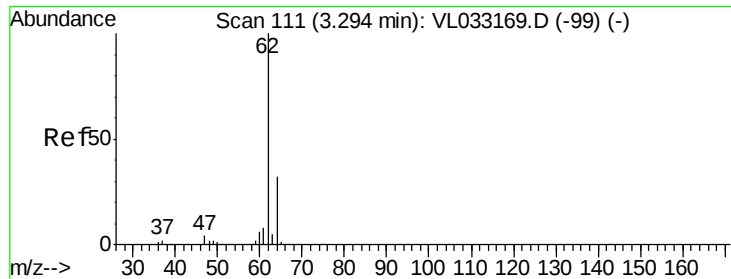
3.14

3.16

3.18

3.20





#5

Vinyl Chloride

Concen: 0.054 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033217.D

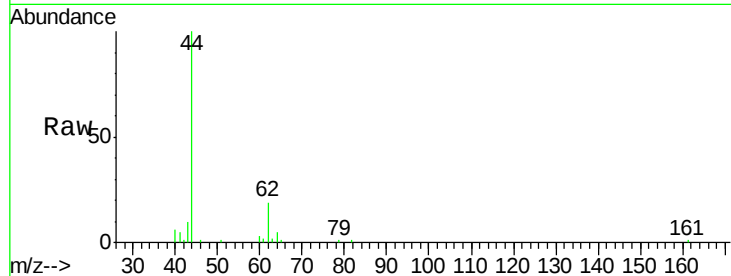
Acq: 15 Feb 2019 3:31

Tgt Ion: 62 Resp: 3311

Ion Ratio Lower Upper

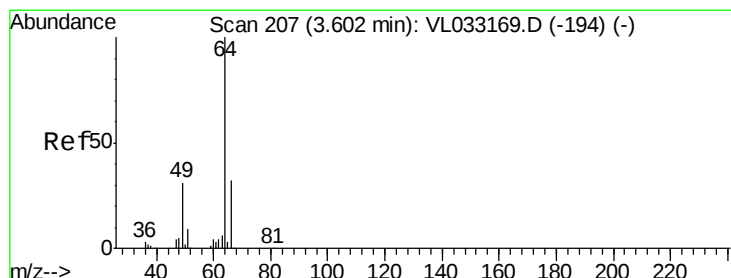
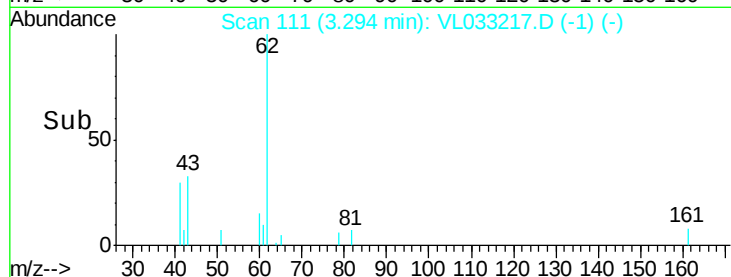
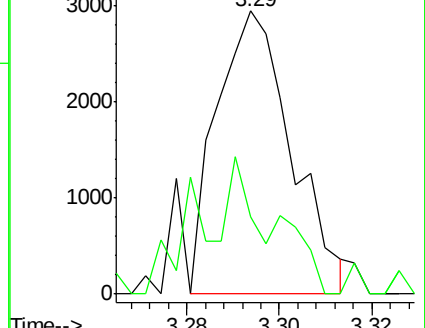
62 100

64 27.3 25.6 38.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#7

Chloroethane

Concen: 7.496 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033217.D

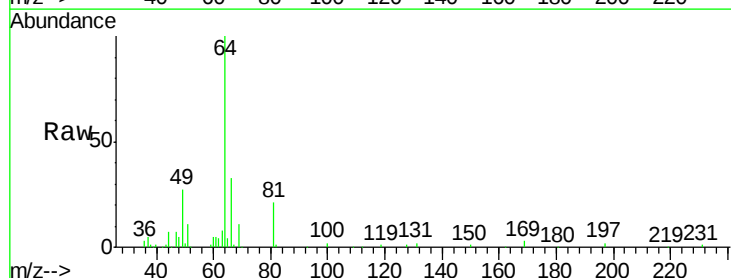
Acq: 15 Feb 2019 3:31

Tgt Ion: 64 Resp: 148873

Ion Ratio Lower Upper

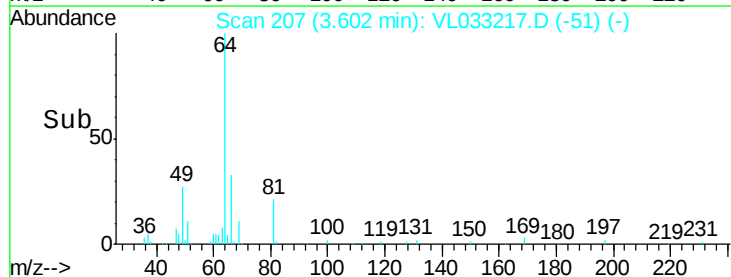
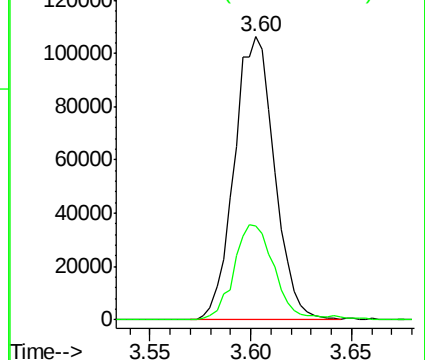
64 100

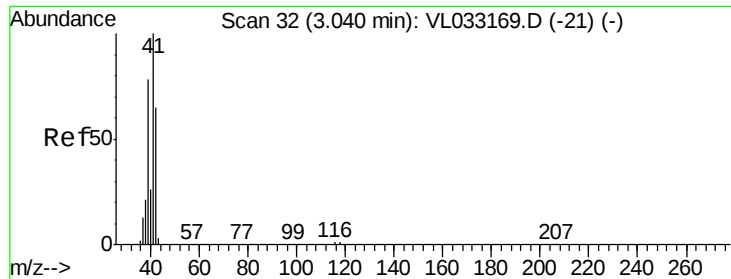
66 33.1 26.0 39.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 3.773 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL033217.D

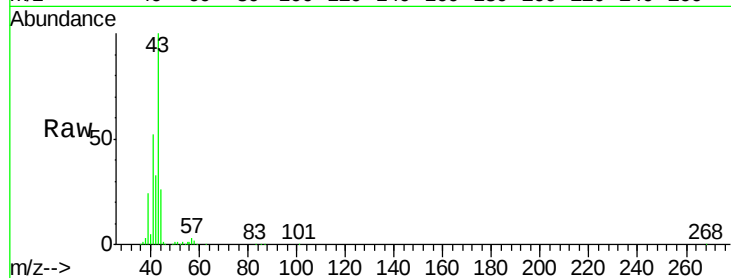
Acq: 15 Feb 2019 3:31

Tgt Ion: 41 Resp: 200806

Ion Ratio Lower Upper

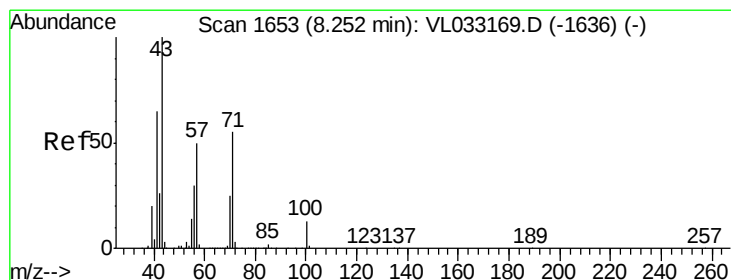
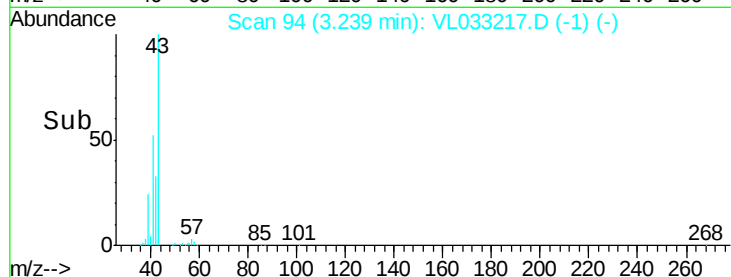
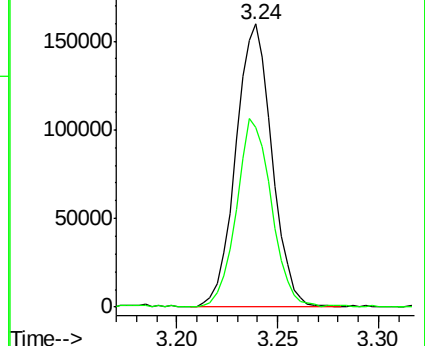
41 100

42 64.3 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.106 ppbv

RT: 8.26 min Scan# 1657

Delta R.T. 0.01 min

Lab File: VL033217.D

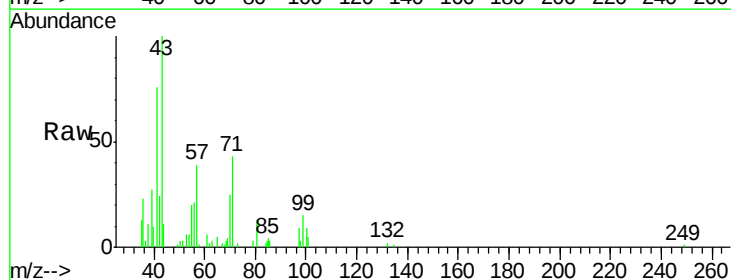
Acq: 15 Feb 2019 3:31

Tgt Ion: 43 Resp: 17028

Ion Ratio Lower Upper

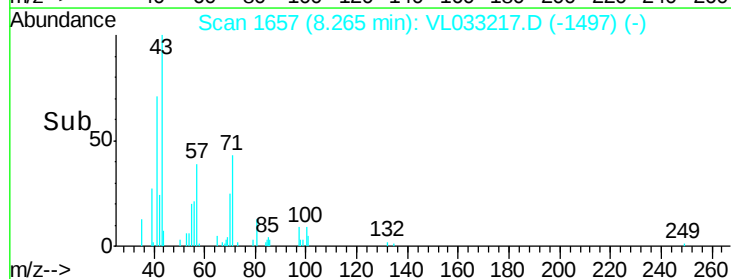
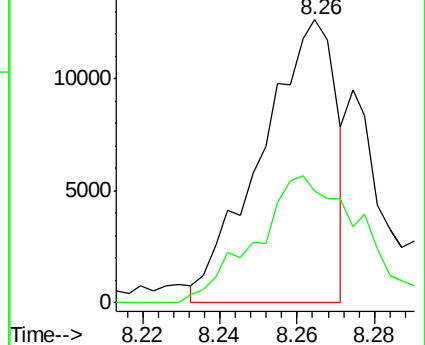
43 100

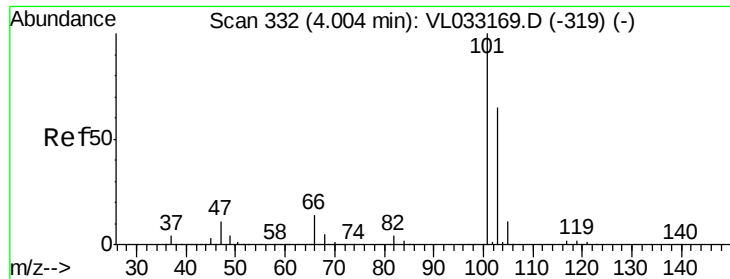
57 63.2 39.5 59.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

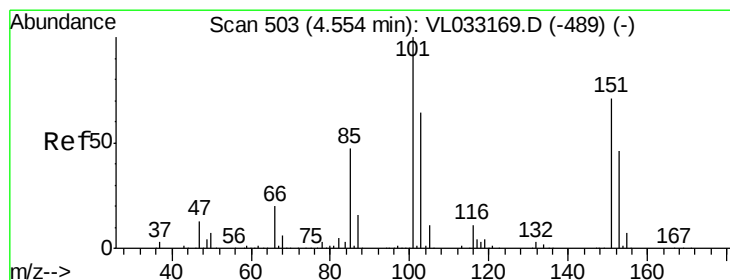
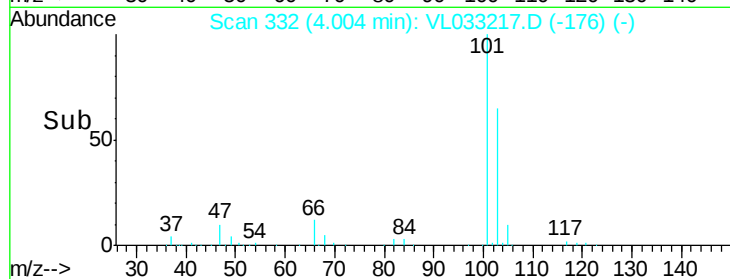
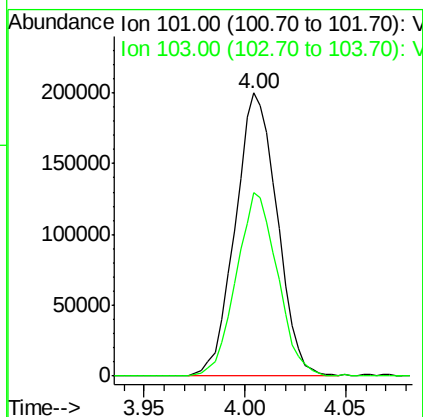
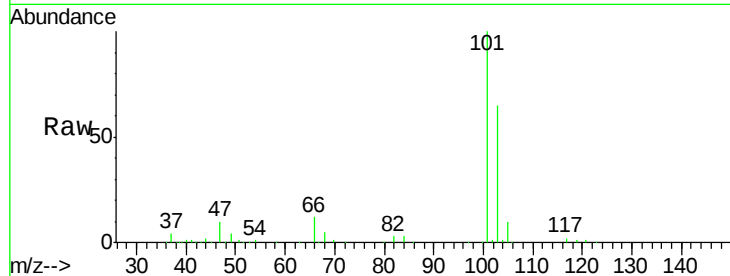
Ion 57.10 (56.80 to 57.80): VL0





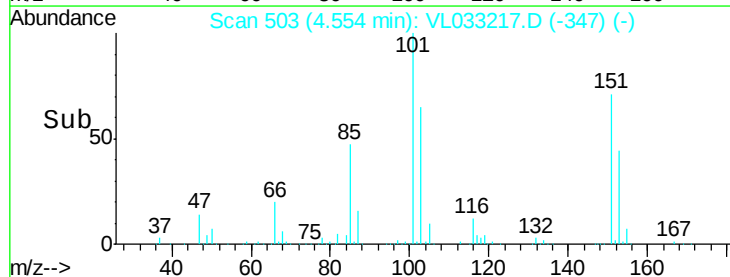
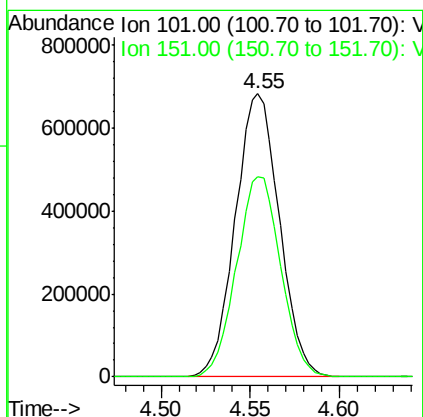
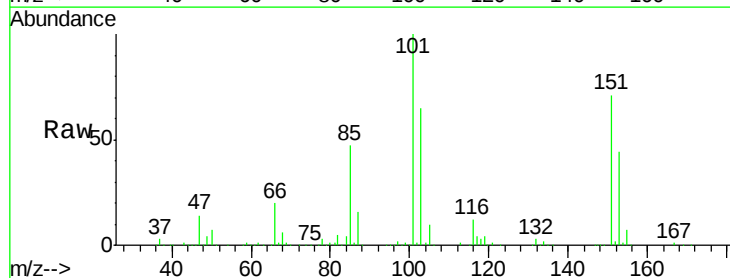
#11
 Trichlorofluoromethane
 Concen: 2.058 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033217.D
 Acq: 15 Feb 2019 3:31

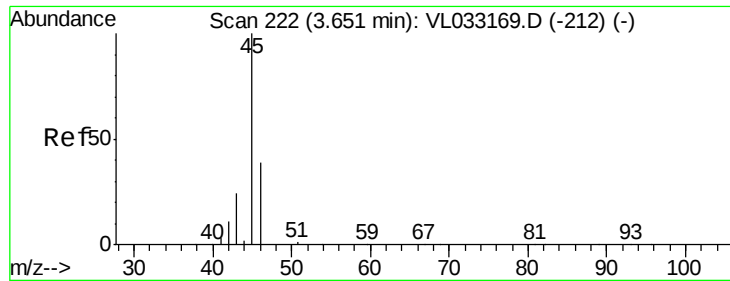
Tgt Ion:101 Resp: 291518
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.984 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033217.D
 Acq: 15 Feb 2019 3:31

Tgt Ion:101 Resp: 1176378
 Ion Ratio Lower Upper
 101 100
 151 71.3 57.4 86.0





#13

Ethanol

Concen: 1.896 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033217.D

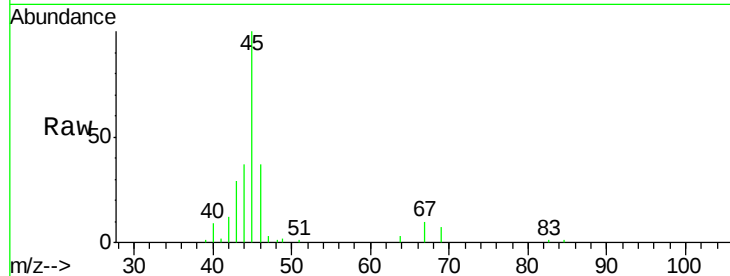
Acq: 15 Feb 2019 3:31

Tgt Ion: 45 Resp: 33652

Ion Ratio Lower Upper

45 100

46 40.5 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

20000

15000

10000

5000

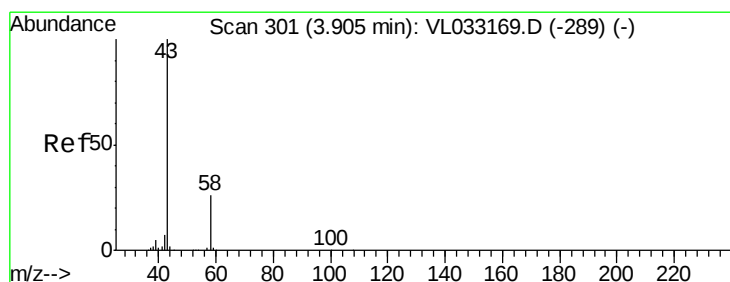
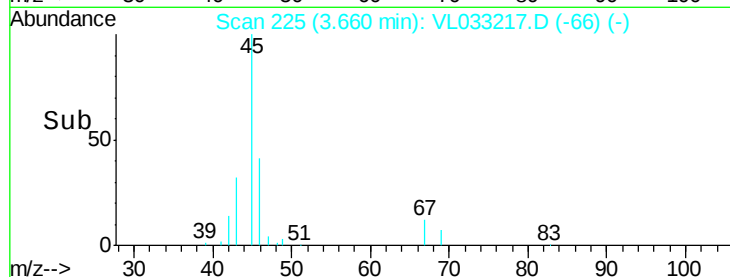
0

3.60

3.65

3.70

Time-->



#15

Acetone

Concen: 3.046 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.02 min

Lab File: VL033217.D

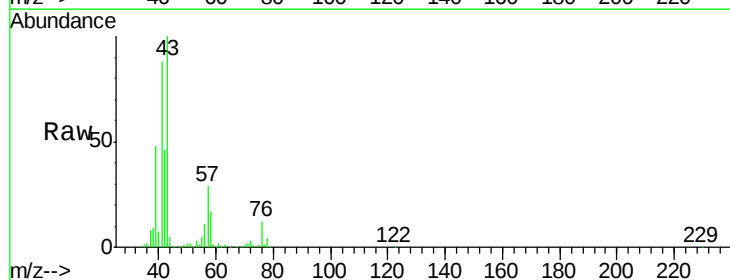
Acq: 15 Feb 2019 3:31

Tgt Ion: 43 Resp: 314007

Ion Ratio Lower Upper

43 100

58 18.2 21.1 31.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

200000

150000

100000

50000

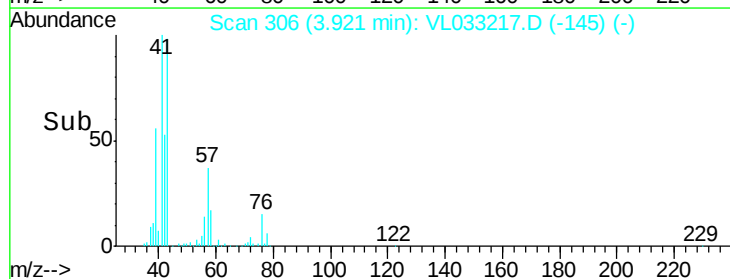
0

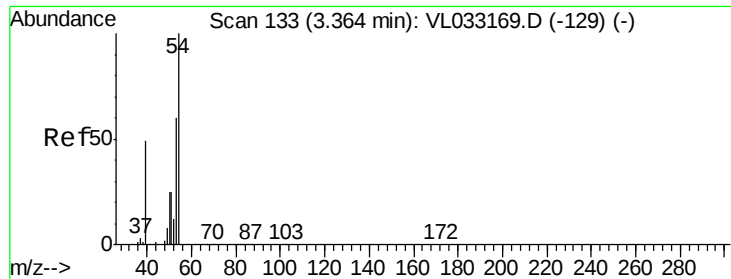
3.85

3.90

3.95

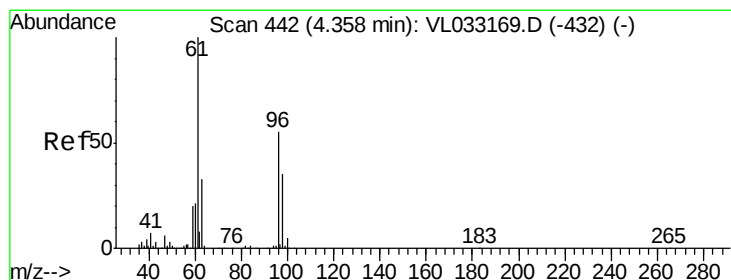
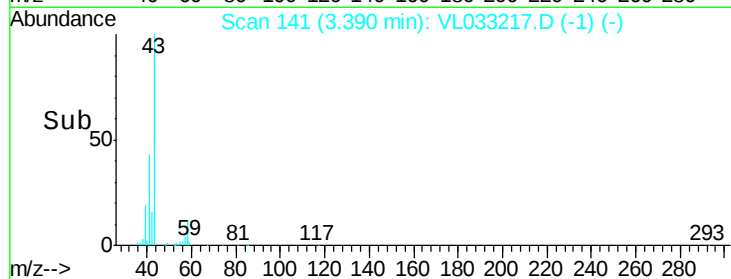
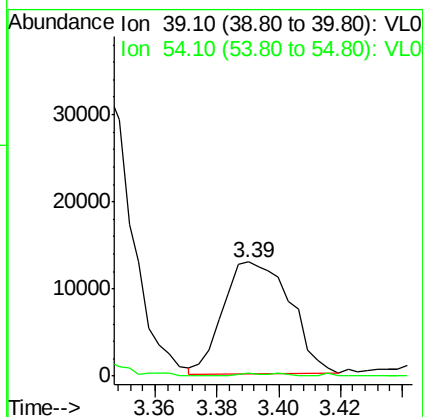
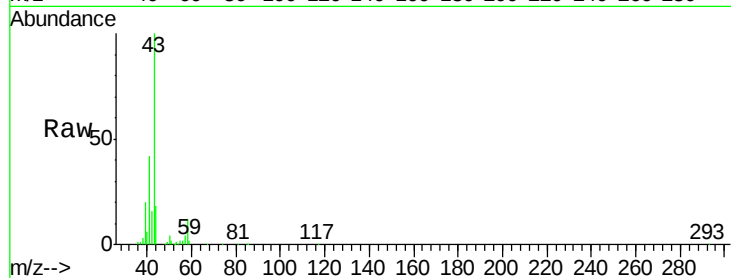
Time-->





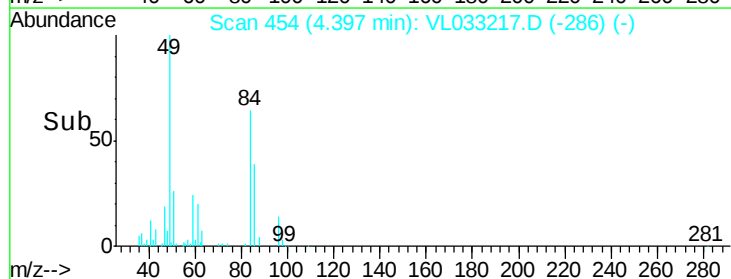
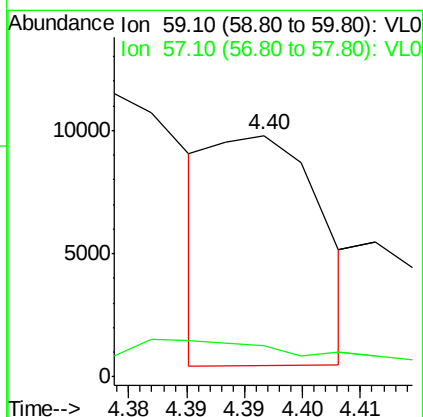
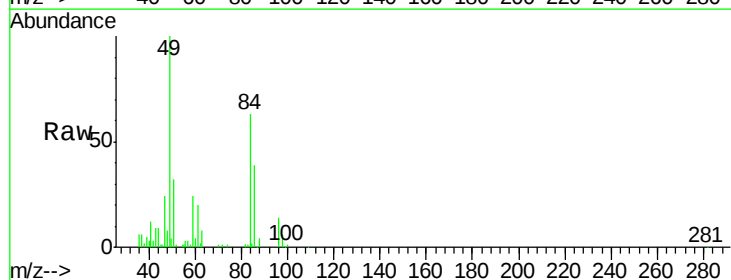
#16
 1,3-Butadiene
 Concen: 0.393 ppbv
 RT: 3.39 min Scan# 141
 Delta R.T. 0.03 min
 Lab File: VL033217.D
 Acq: 15 Feb 2019 3:31

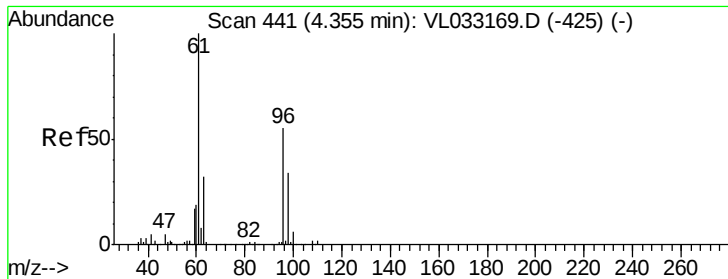
Tgt Ion: 39 Resp: 19241
 Ion Ratio Lower Upper
 39 100
 54 1.8 71.3 106.9#



#17
 tert-Butyl alcohol
 Concen: 0.308 ppbv
 RT: 4.40 min Scan# 454
 Delta R.T. 0.04 min
 Lab File: VL033217.D
 Acq: 15 Feb 2019 3:31

Tgt Ion: 59 Resp: 6052
 Ion Ratio Lower Upper
 59 100
 57 61.1 7.6 11.4#





#18

1,1-Dichloroethene

Concen: 30.125 ppbv

RT: 4.35 min Scan# 441

Delta R.T. 0.00 min

Lab File: VL033217.D

Acq: 15 Feb 2019 3:31

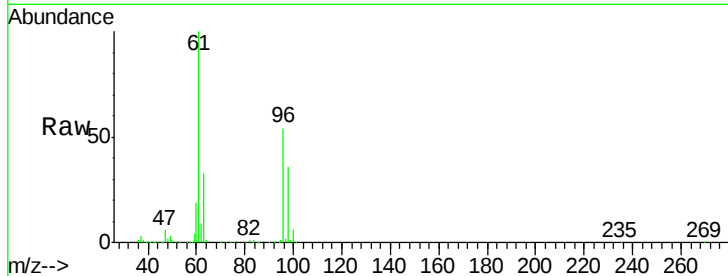
Tgt Ion: 96 Resp: 1323679

Ion Ratio Lower Upper

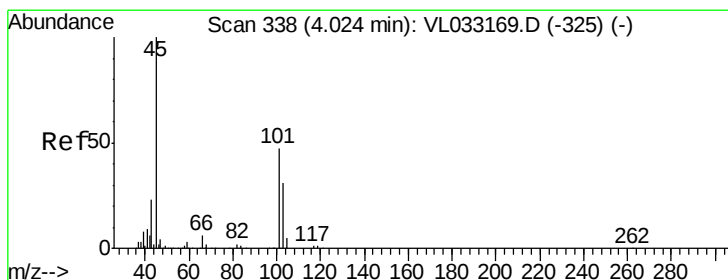
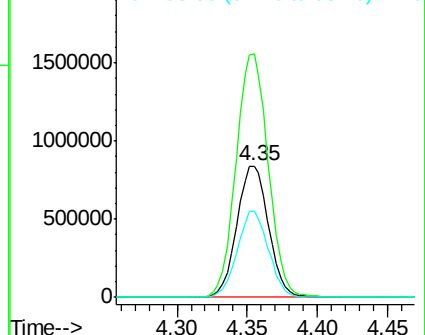
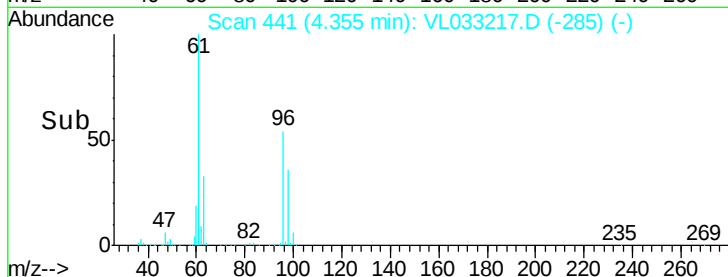
96 100

61 185.1 145.0 217.6

98 65.8 50.0 75.0



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#19

Isopropyl Alcohol

Concen: 0.688 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033217.D

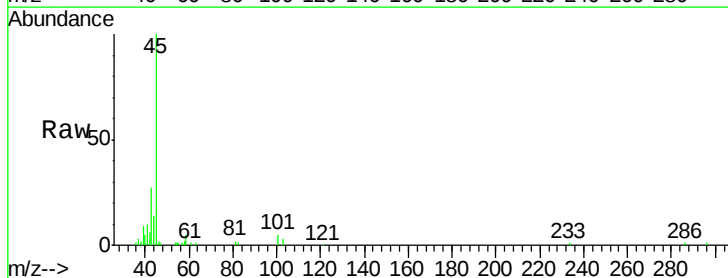
Acq: 15 Feb 2019 3:31

Tgt Ion: 45 Resp: 48091

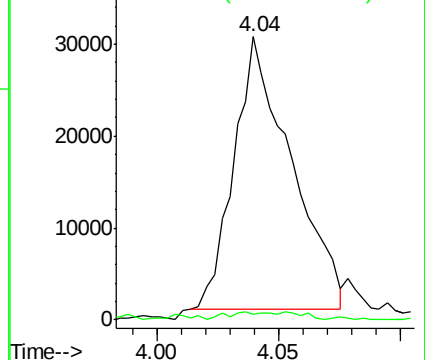
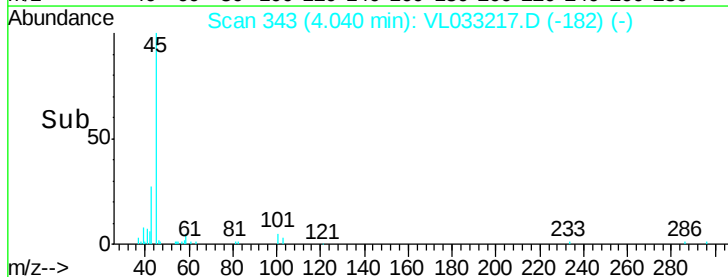
Ion Ratio Lower Upper

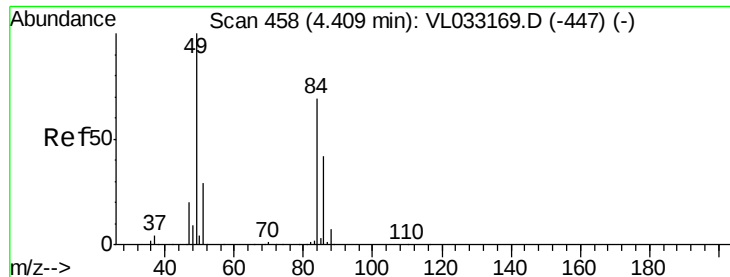
45 100

58 4.0 1.5 2.3#



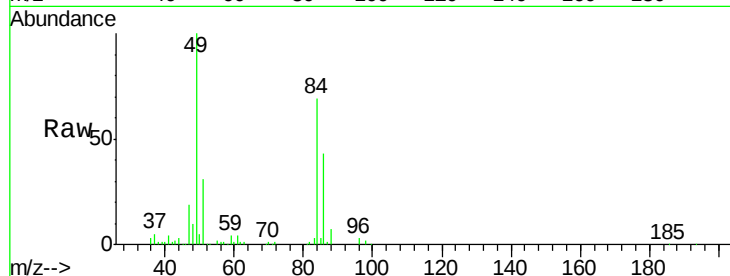
Abundance Ion 45.10 (44.80 to 45.80): VL0
Ion 58.10 (57.80 to 58.80): VL0



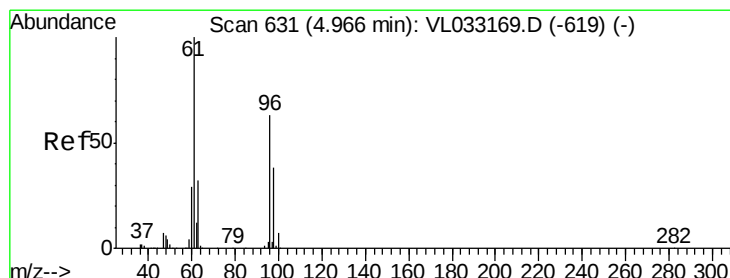
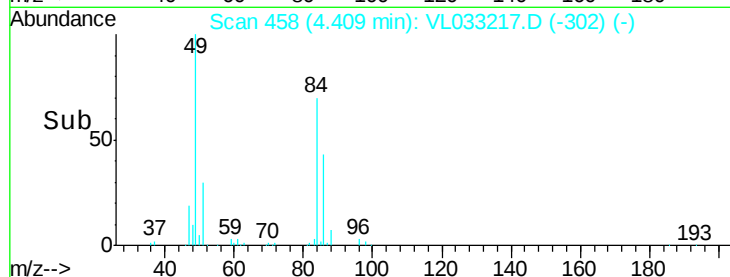
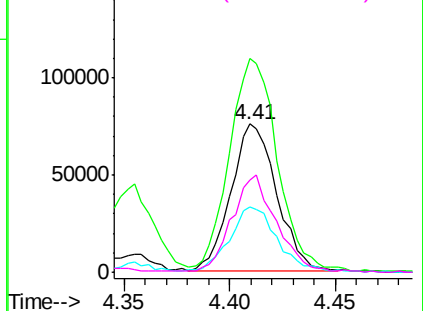


#20
Methylene Chloride
Concen: 2.764 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033217.D
Acq: 15 Feb 2019 3:31

Tgt Ion:	84	Resp:	113349
Ion	Ratio	Lower	Upper
84	100		
49	142.8	115.8	173.8
51	43.6	33.0	49.6
86	61.8	48.2	72.2

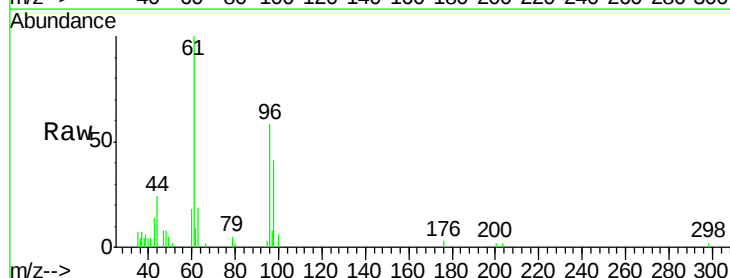


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

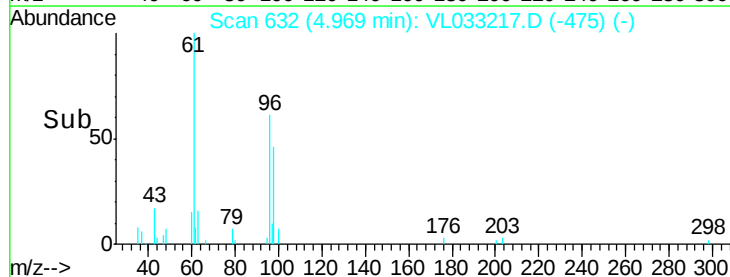
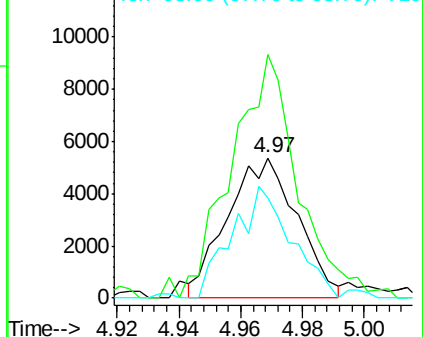


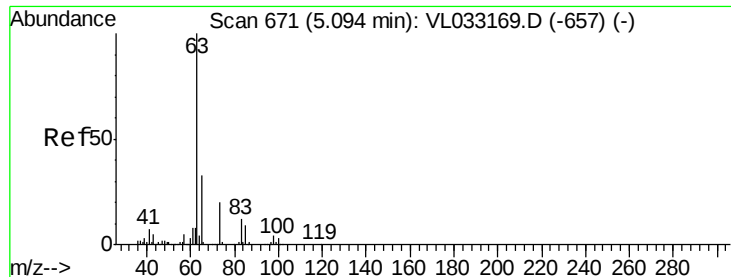
#22
trans-1,2-Dichloroethene
Concen: 0.197 ppbv
RT: 4.97 min Scan# 632
Delta R.T. 0.00 min
Lab File: VL033217.D
Acq: 15 Feb 2019 3:31

Tgt Ion:	96	Resp:	8419
Ion	Ratio	Lower	Upper
96	100		
61	187.6	126.4	189.6
98	78.0	48.4	72.6#



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#24

1,1-Dichloroethane

Concen: 119.961 ppbv

RT: 5.10 min Scan# 672

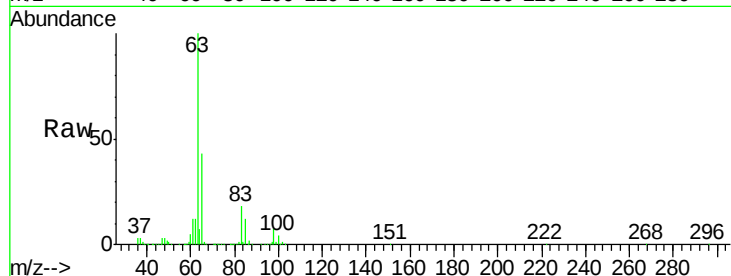
Delta R.T. 0.00 min

Lab File: VL033217.D

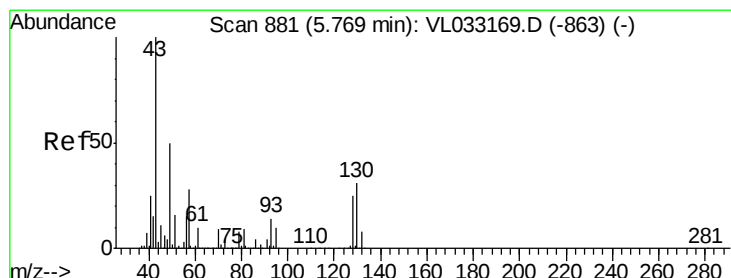
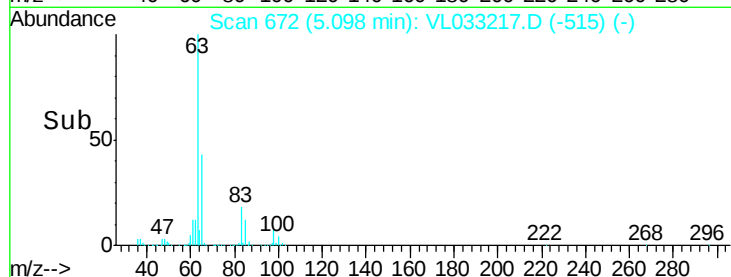
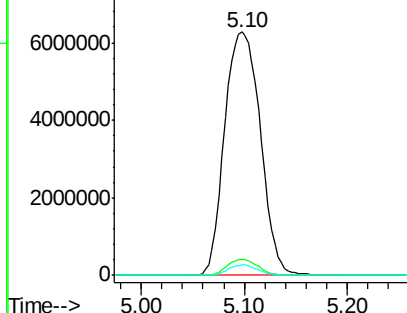
Acq: 15 Feb 2019 3:31

Tgt Ion: 63 Resp:15160814

Ion	Ratio	Lower	Upper
63	100		
98	6.5	2.1	6.5#
100	4.1	1.4	4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.208 ppbv

RT: 5.78 min Scan# 885

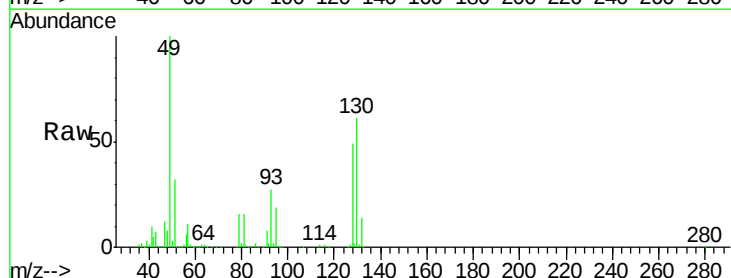
Delta R.T. 0.01 min

Lab File: VL033217.D

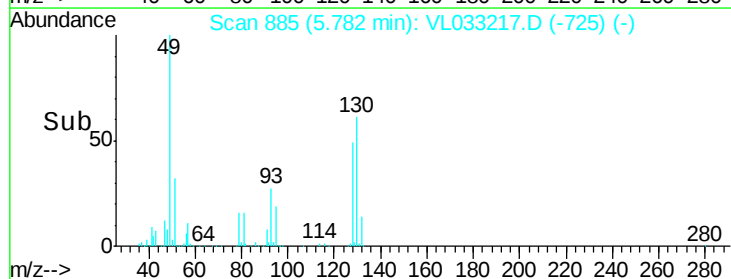
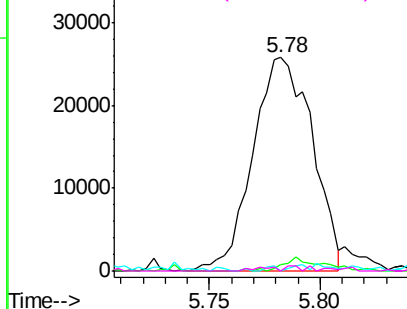
Acq: 15 Feb 2019 3:31

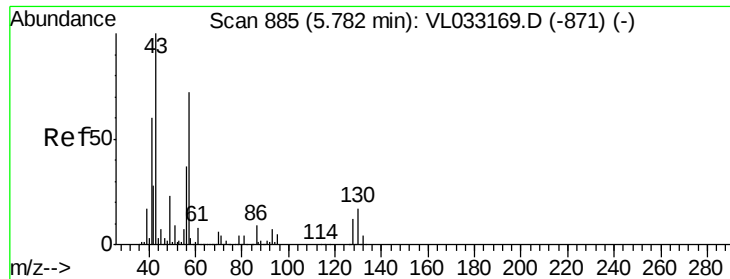
Tgt Ion: 43 Resp: 48216

Ion	Ratio	Lower	Upper
43	100		
45	4.2	7.9	11.9#
61	0.0	7.5	11.3#
70	2.1	5.8	8.8#



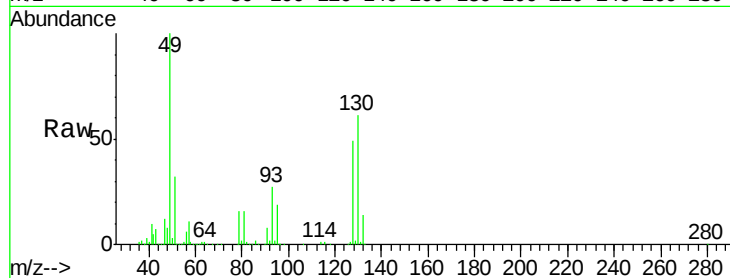
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



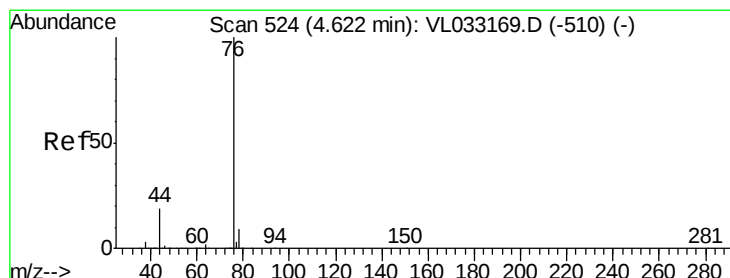
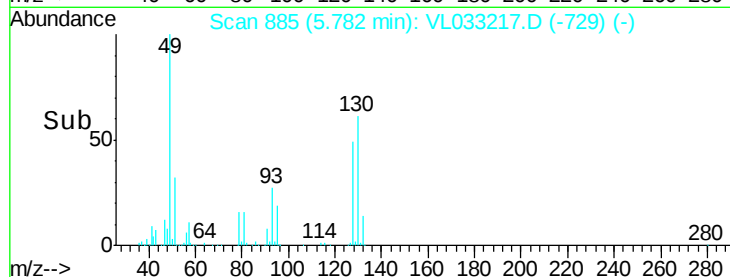
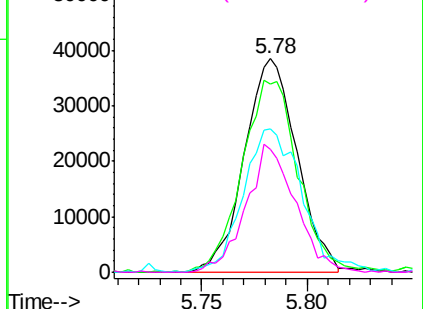


#26
Hexane
Concen: 0.613 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033217.D
Acq: 15 Feb 2019 3:31

Tgt Ion: 57 Resp: 66682
Ion Ratio Lower Upper
57 100
41 96.5 69.4 104.2
43 75.8 176.7 265.1#
56 56.3 41.4 62.0

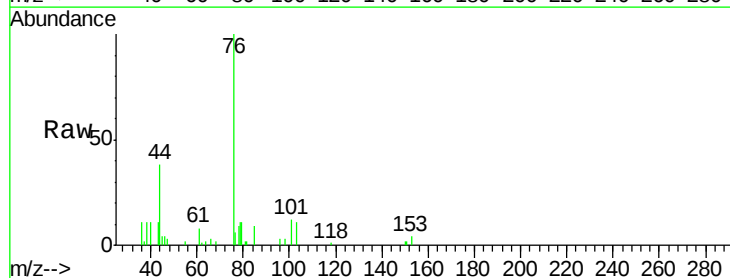


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

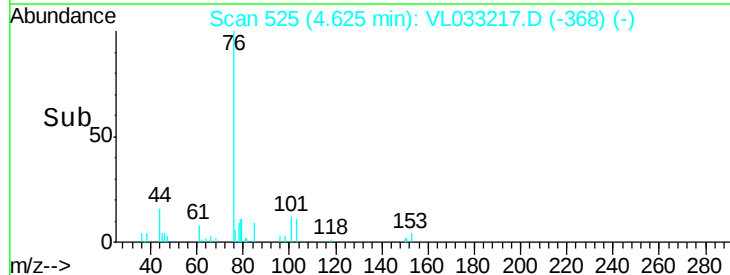
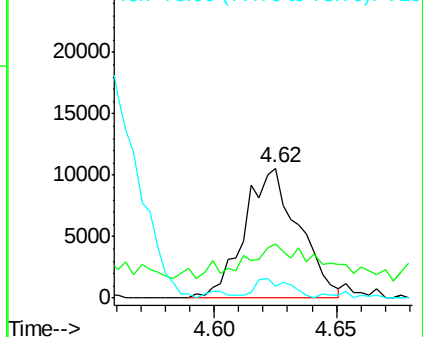


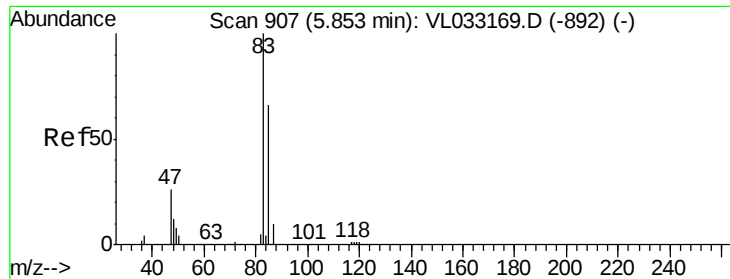
#27
Carbon Disulfide
Concen: 0.163 ppbv
RT: 4.62 min Scan# 525
Delta R.T. 0.00 min
Lab File: VL033217.D
Acq: 15 Feb 2019 3:31

Tgt Ion: 76 Resp: 16283
Ion Ratio Lower Upper
76 100
44 57.5 15.0 22.4#
78 14.0 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.439 ppbv

RT: 5.86 min Scan# 909

Delta R.T. 0.01 min

Lab File: VL033217.D

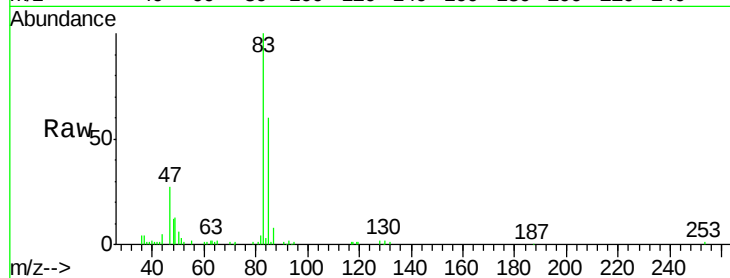
Acq: 15 Feb 2019 3:31

Tgt Ion: 83 Resp: 73179

Ion Ratio Lower Upper

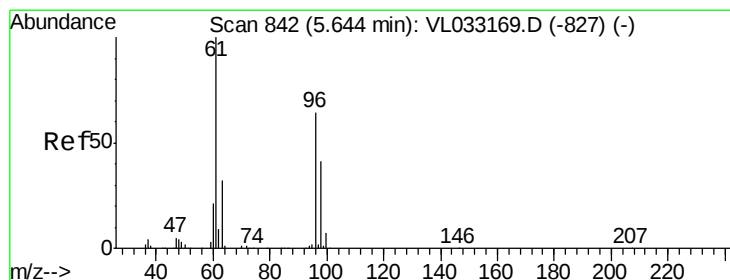
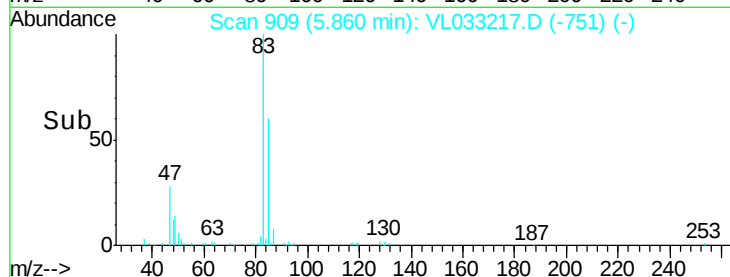
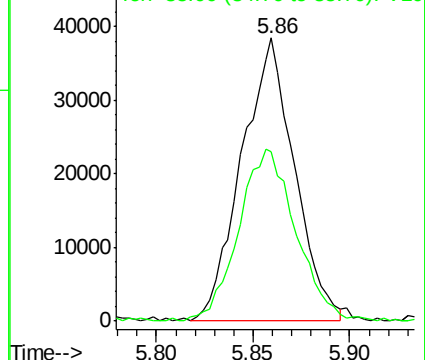
83 100

85 58.1 52.6 78.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#31

cis-1,2-Dichloroethene

Concen: 0.814 ppbv

RT: 5.65 min Scan# 844

Delta R.T. 0.01 min

Lab File: VL033217.D

Acq: 15 Feb 2019 3:31

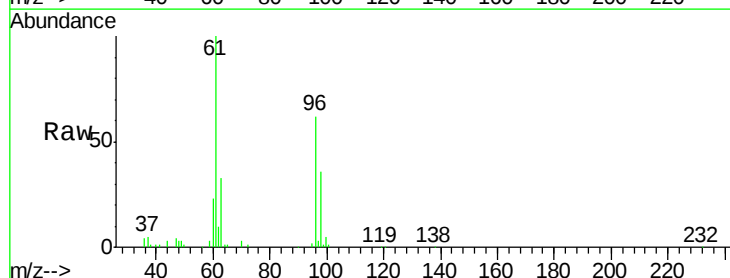
Tgt Ion: 61 Resp: 88666

Ion Ratio Lower Upper

61 100

96 62.5 51.2 76.8

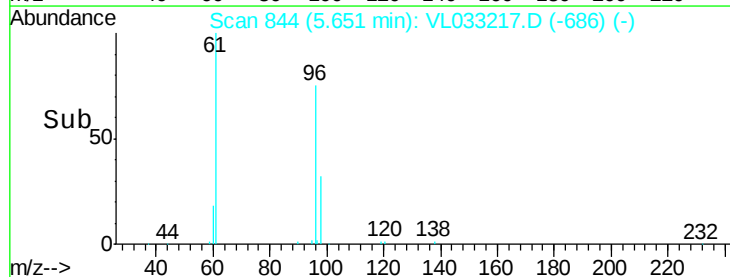
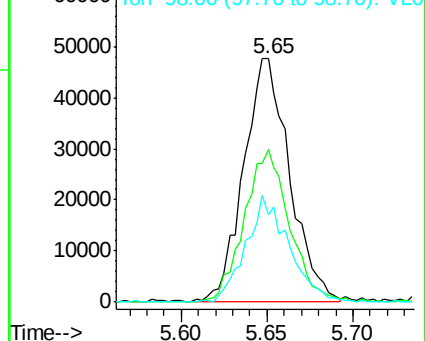
98 35.7 32.8 49.2

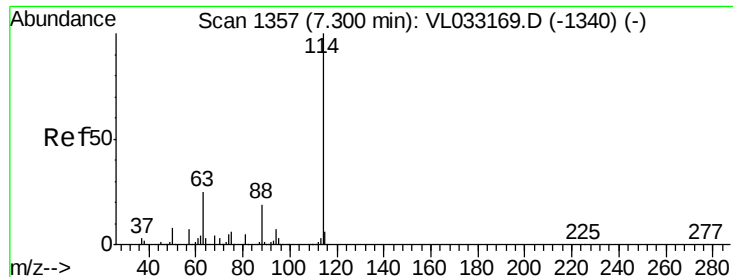


Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

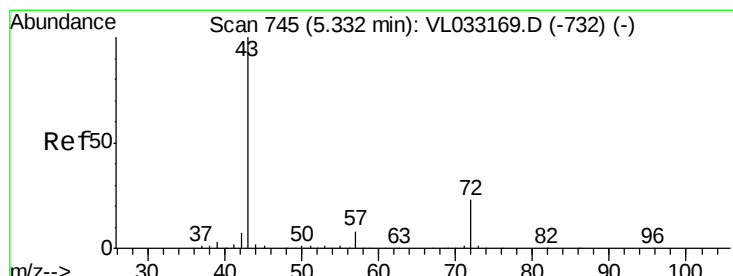
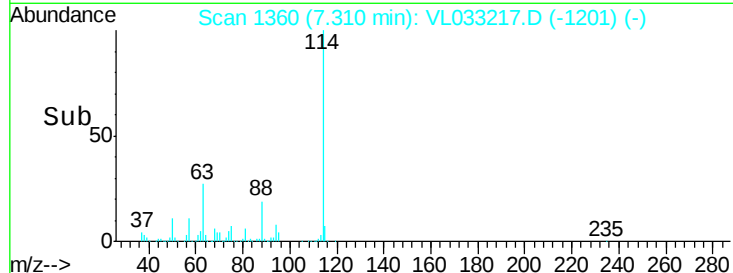
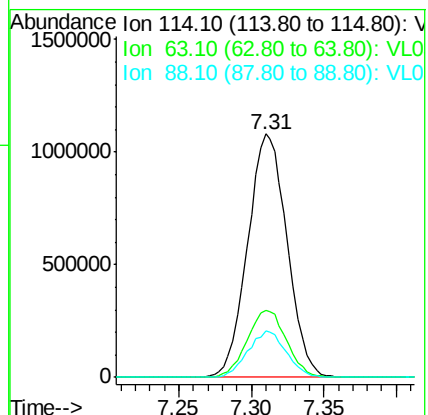
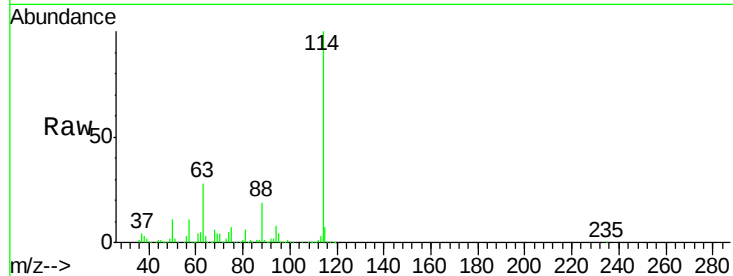
Ion 98.00 (97.70 to 98.70): VL0





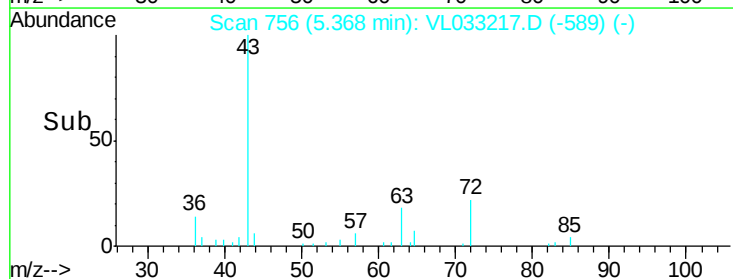
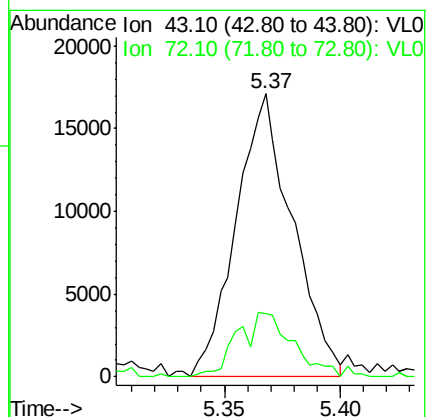
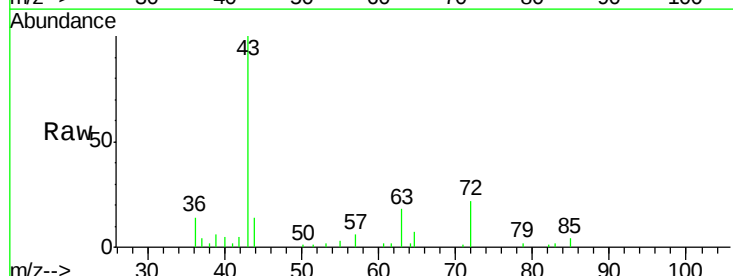
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VL033217.D
 Acq: 15 Feb 2019 3:31

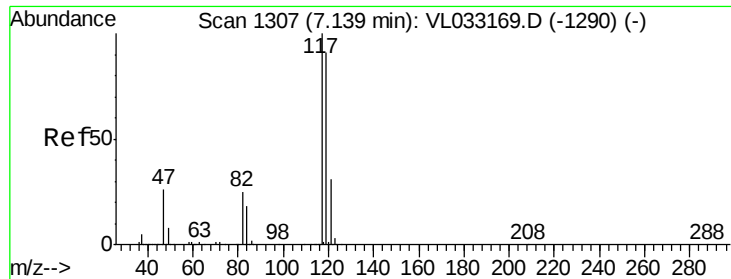
Tgt Ion:	114	Resp:	2041921
Ion	Ratio	Lower	Upper
114	100		
63	27.7	20.8	31.2
88	18.6	14.6	22.0



#34
 2-Butanone
 Concen: 0.224 ppbv
 RT: 5.37 min Scan# 756
 Delta R.T. 0.04 min
 Lab File: VL033217.D
 Acq: 15 Feb 2019 3:31

Tgt Ion:	43	Resp:	28960
Ion	Ratio	Lower	Upper
43	100		
72	22.9	17.8	26.6





#35

Carbon Tetrachloride

Concen: 30.881 ppbv

RT: 6.66 min Scan# 1158

Delta R.T. -0.48 min

Lab File: VL033217.D

Acq: 15 Feb 2019 3:31

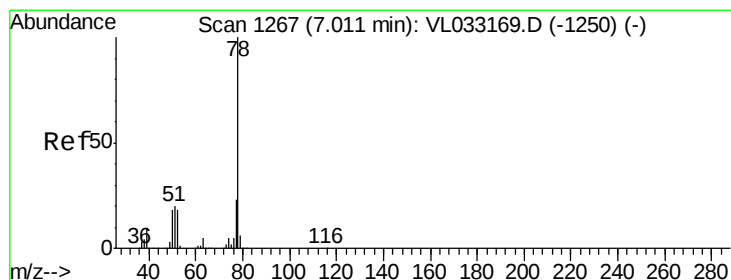
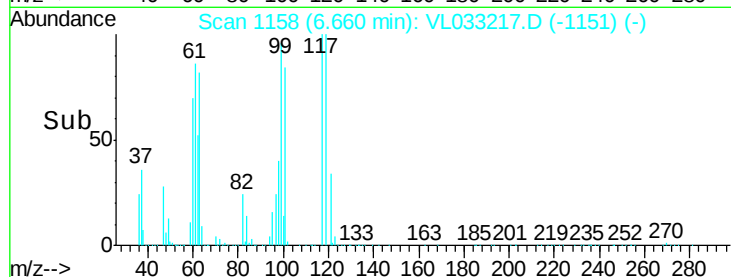
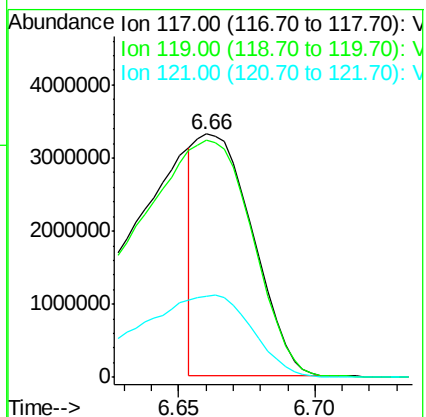
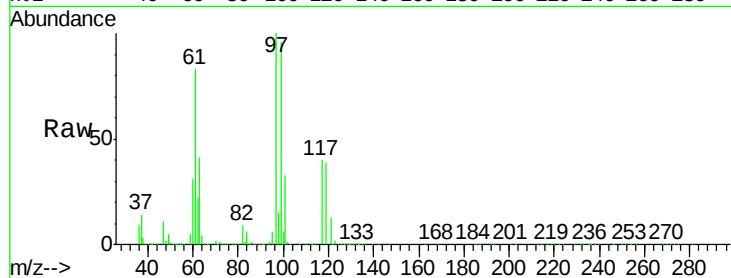
Tgt Ion: 117 Resp: 4815686

Ion Ratio Lower Upper

117 100

119 97.4 73.0 109.6

121 33.1 25.1 37.7



#36

Benzene

Concen: 0.126 ppbv

RT: 7.03 min Scan# 1272

Delta R.T. 0.02 min

Lab File: VL033217.D

Acq: 15 Feb 2019 3:31

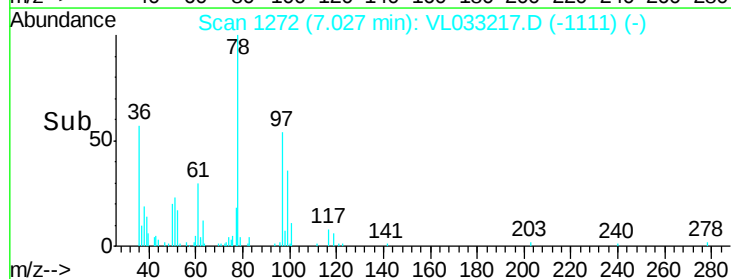
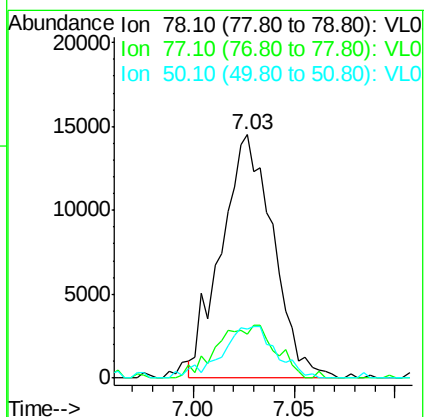
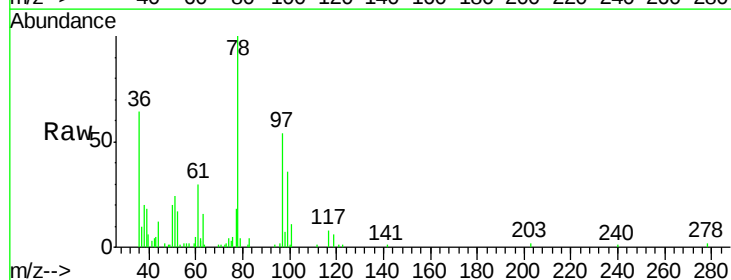
Tgt Ion: 78 Resp: 26048

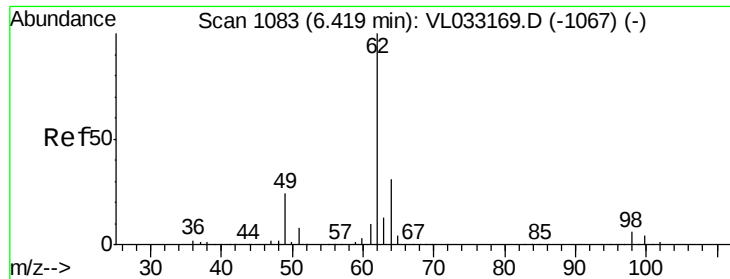
Ion Ratio Lower Upper

78 100

77 17.9 18.0 27.0#

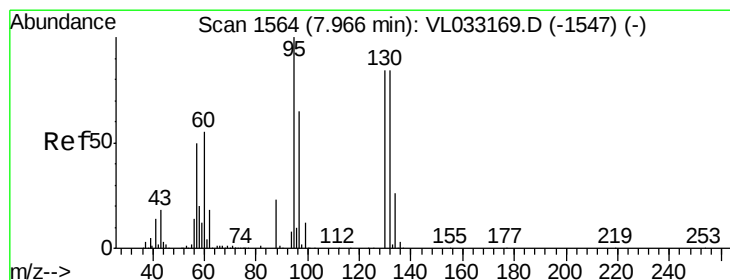
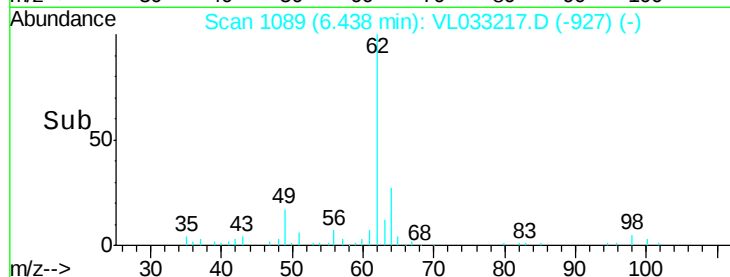
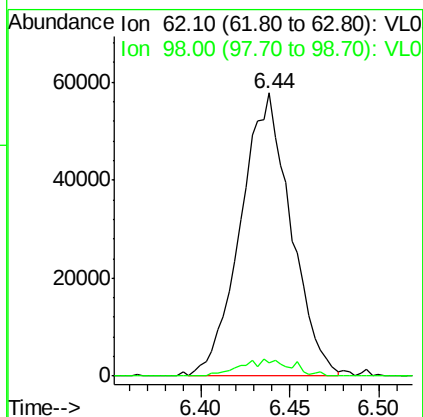
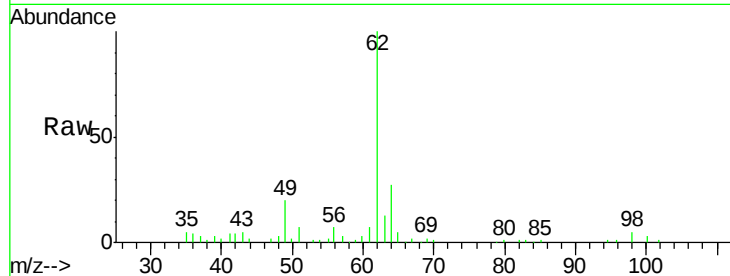
50 20.0 14.2 21.2





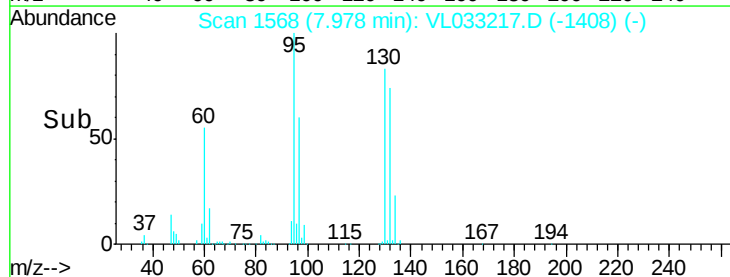
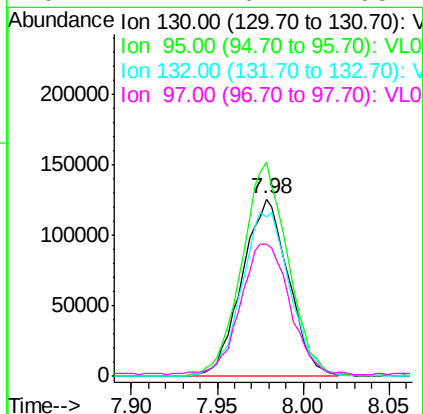
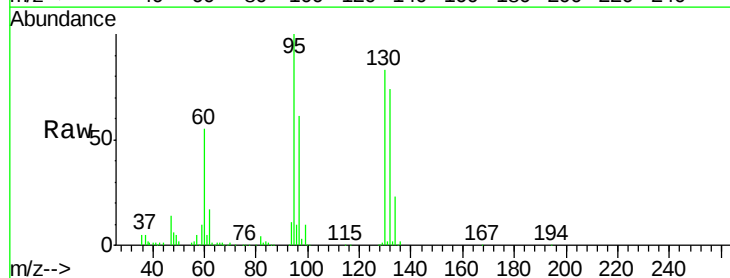
#37
 1,2-Dichloroethane
 Concen: 0.993 ppbv
 RT: 6.44 min Scan# 1089
 Delta R.T. 0.02 min
 Lab File: VL033217.D
 Acq: 15 Feb 2019 3:31

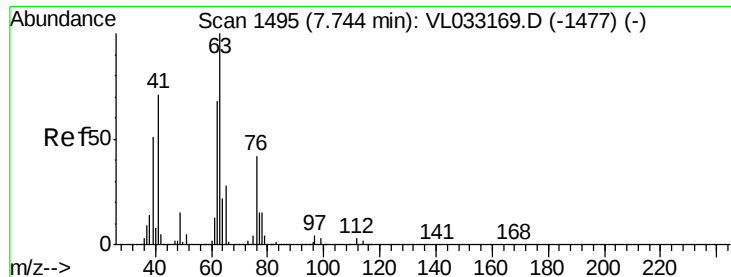
Tgt Ion: 62 Resp: 113889
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.7 7.1#



#38
 Trichloroethene
 Concen: 2.658 ppbv
 RT: 7.98 min Scan# 1568
 Delta R.T. 0.01 min
 Lab File: VL033217.D
 Acq: 15 Feb 2019 3:31

Tgt Ion: 130 Resp: 235598
 Ion Ratio Lower Upper
 130 100
 95 120.0 95.5 143.3
 132 89.5 80.0 120.0
 97 72.1 62.2 93.2





#39

1,2-Dichloropropane

Concen: 6.827 ppbv

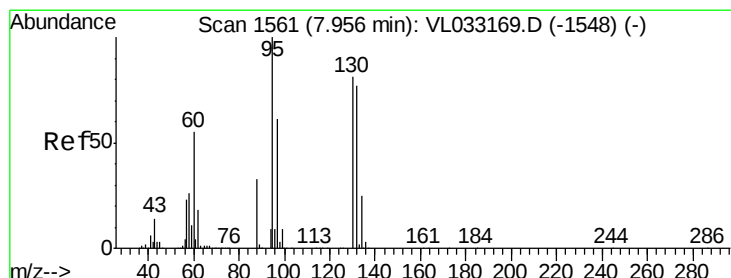
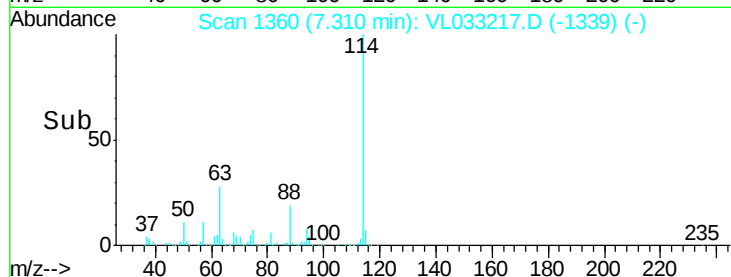
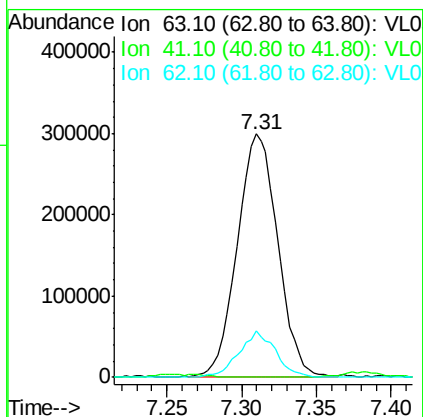
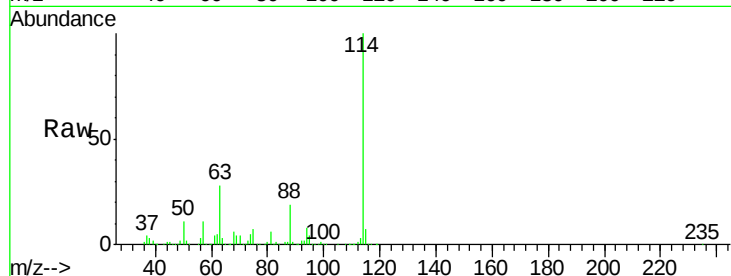
RT: 7.31 min Scan# 1360

Delta R.T. -0.43 min

Lab File: VL033217.D

Acq: 15 Feb 2019 3:31

Tgt Ion:	63	Resp:	557989
Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.4	84.6#
62	19.0	54.2	81.4#



#40

1,4-Dioxane

Concen: 0.042 ppbv

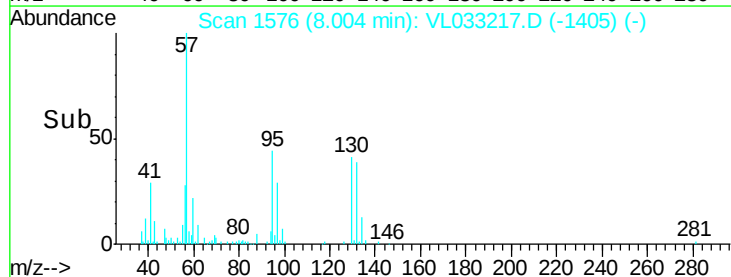
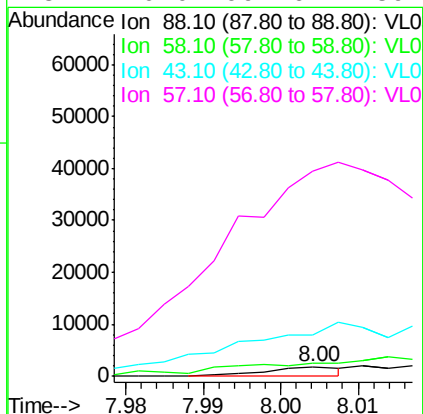
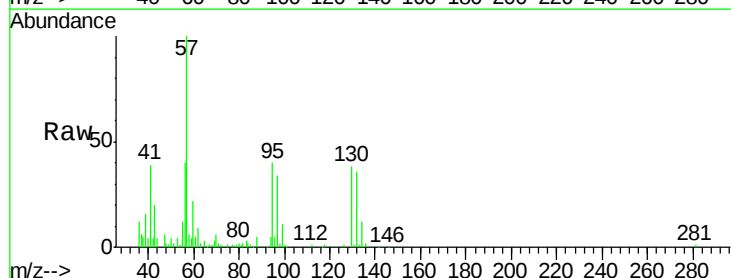
RT: 8.00 min Scan# 1576

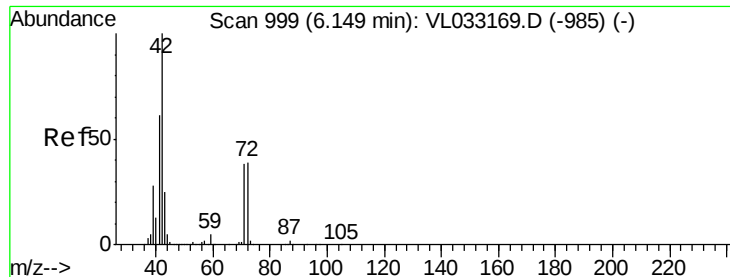
Delta R.T. 0.05 min

Lab File: VL033217.D

Acq: 15 Feb 2019 3:31

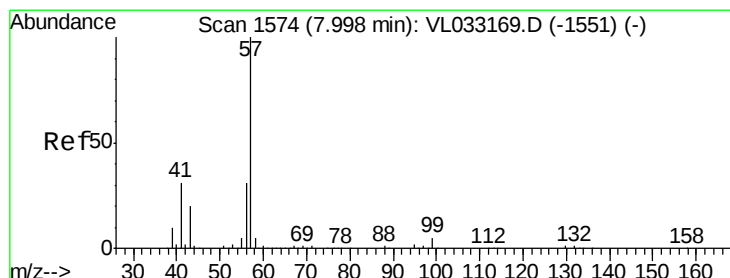
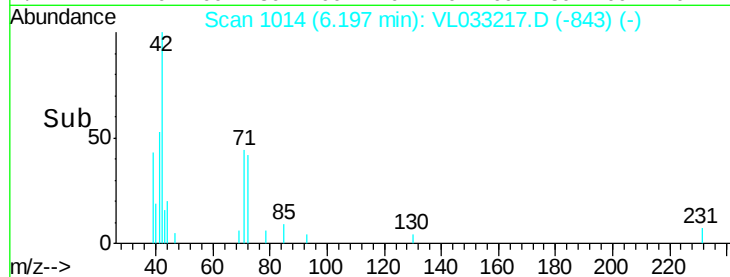
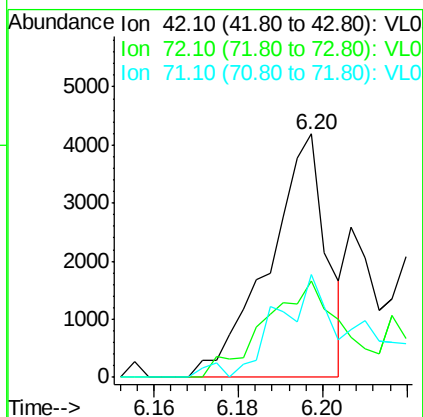
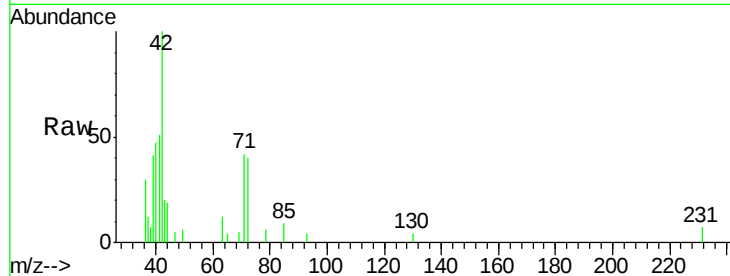
Tgt Ion:	88	Resp:	1238
Ion	Ratio	Lower	Upper
88	100		
58	0.0	106.6	160.0#
43	0.0	220.2	330.2#
57	0.0	992.6	1489.0#





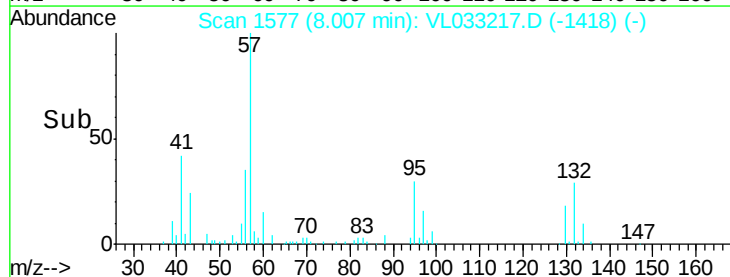
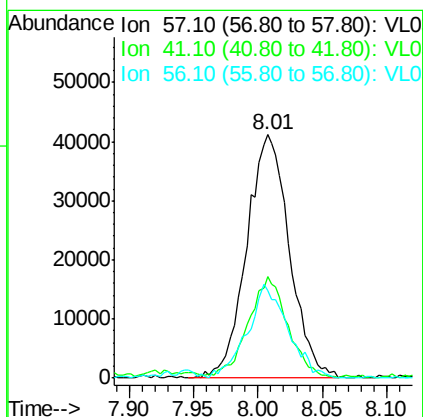
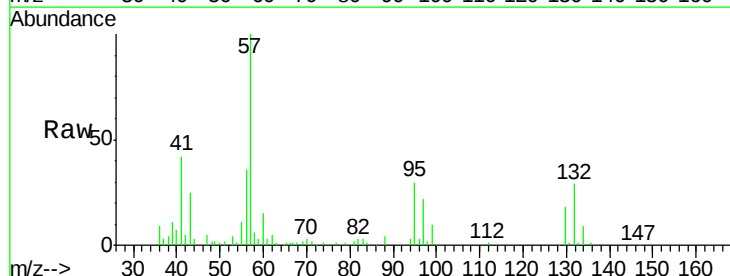
#41
Tetrahydrofuran
Concen: 0.049 ppbv
RT: 6.20 min Scan# 1014
Delta R.T. 0.05 min
Lab File: VL033217.D
Acq: 15 Feb 2019 3:31

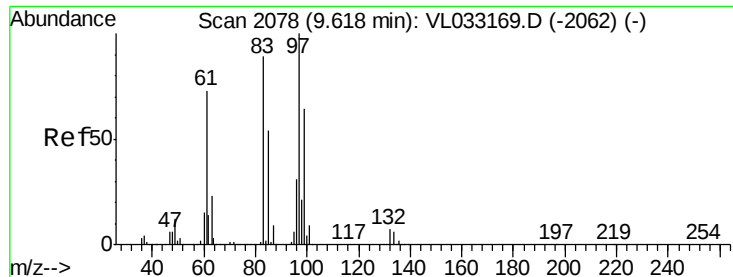
Tgt Ion: 42 Resp: 3955
Ion Ratio Lower Upper
42 100
72 70.8 31.6 47.4#
71 59.1 30.3 45.5#



#44
2,2,4-Trimethylpentane
Concen: 0.271 ppbv
RT: 8.01 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VL033217.D
Acq: 15 Feb 2019 3:31

Tgt Ion: 57 Resp: 95126
Ion Ratio Lower Upper
57 100
41 39.7 25.1 37.7#
56 36.4 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 0.797 ppbv

RT: 9.63 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VL033217.D

Acq: 15 Feb 2019 3:31

Tgt Ion: 97 Resp: 67620

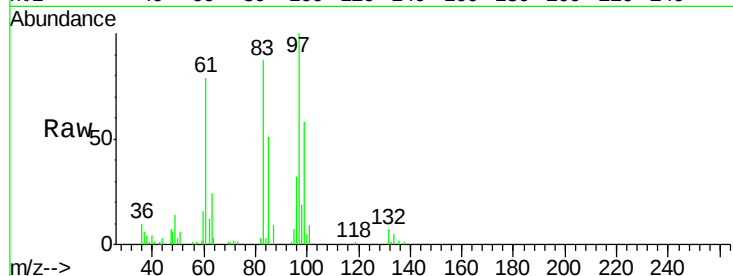
Ion Ratio Lower Upper

97 100

83 87.6 71.4 107.2

85 50.4 43.5 65.3

99 58.7 51.4 77.0

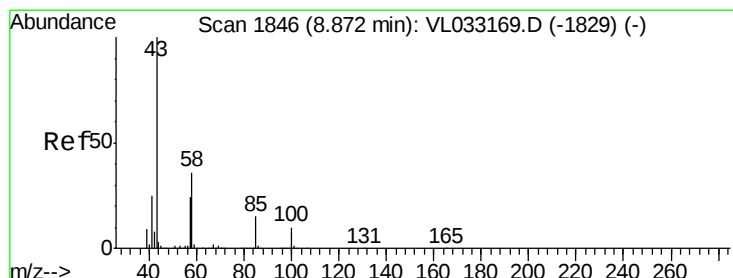
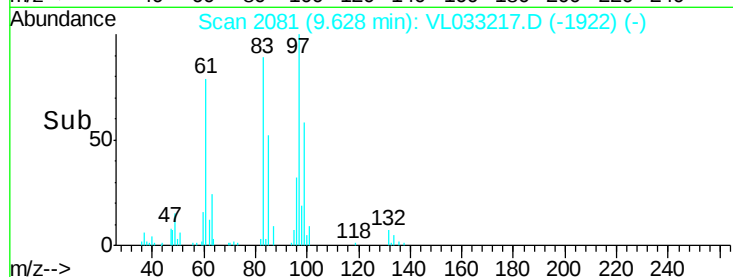
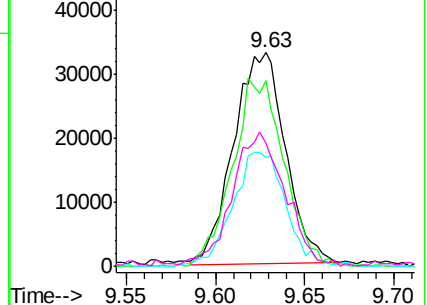


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#50

4-Methyl-2-Pentanone

Concen: 0.031 ppbv

RT: 8.90 min Scan# 1856

Delta R.T. 0.03 min

Lab File: VL033217.D

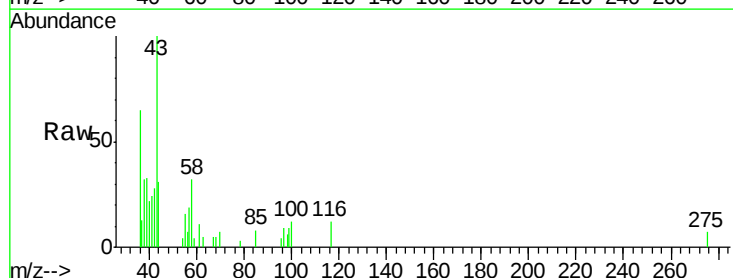
Acq: 15 Feb 2019 3:31

Tgt Ion: 43 Resp: 6395

Ion Ratio Lower Upper

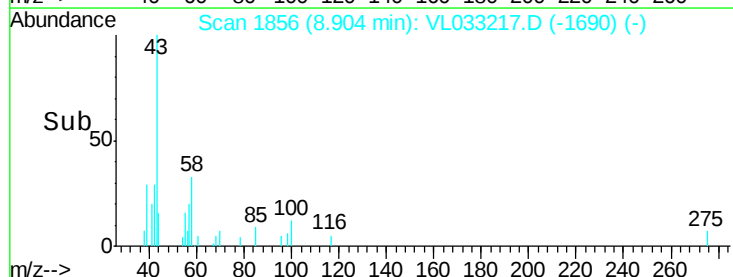
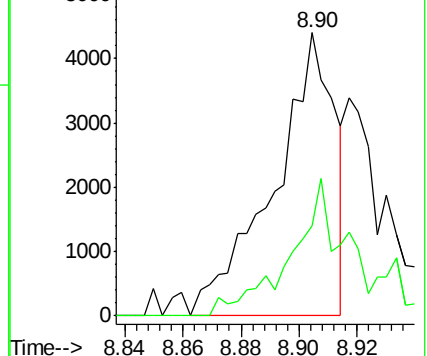
43 100

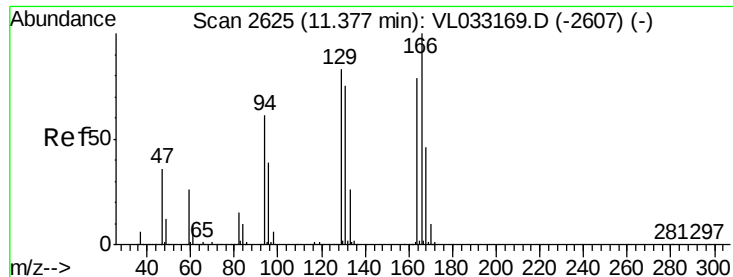
58 49.2 29.0 43.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

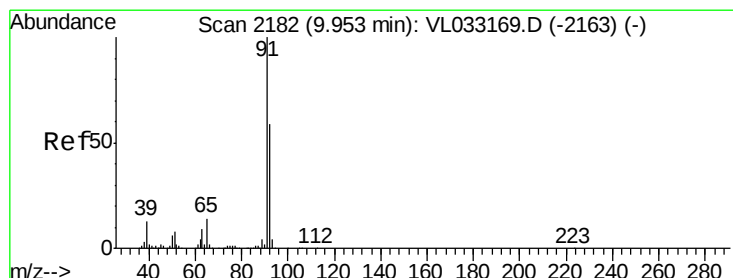
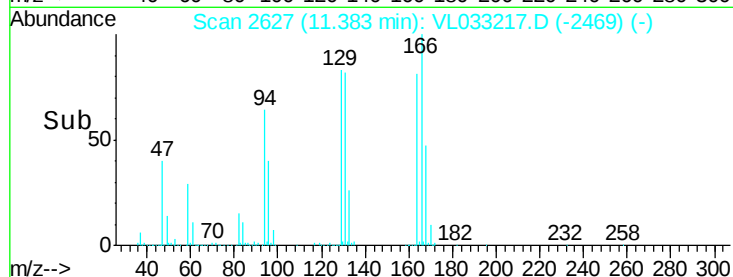
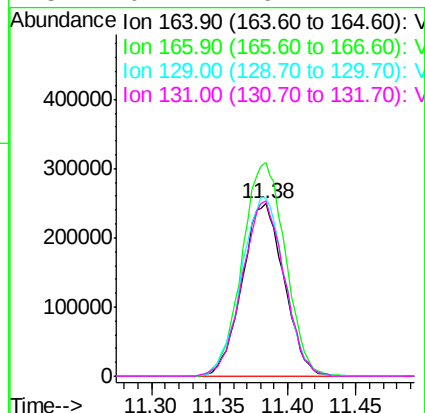
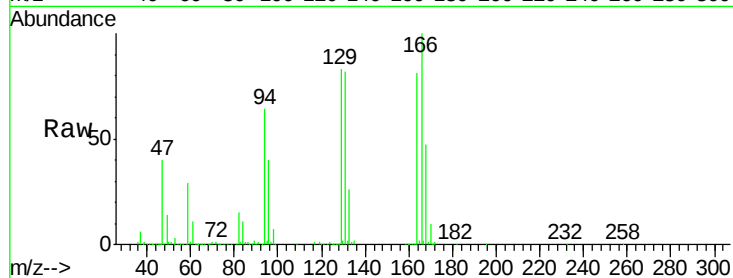
Ion 58.10 (57.80 to 58.80): VL0





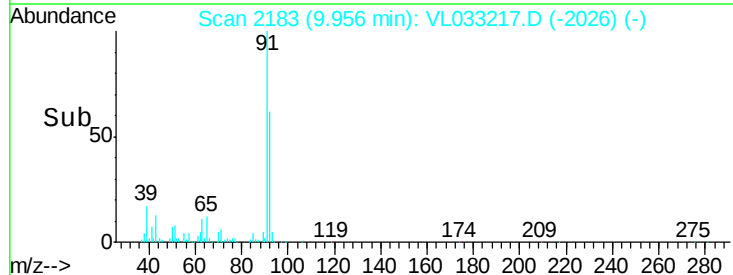
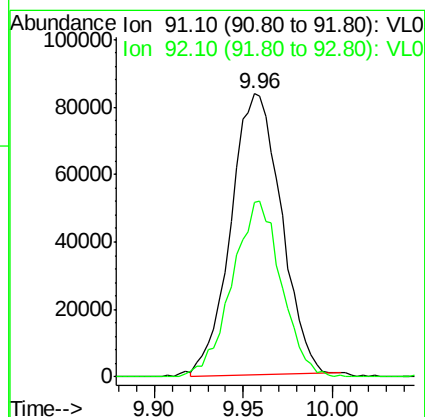
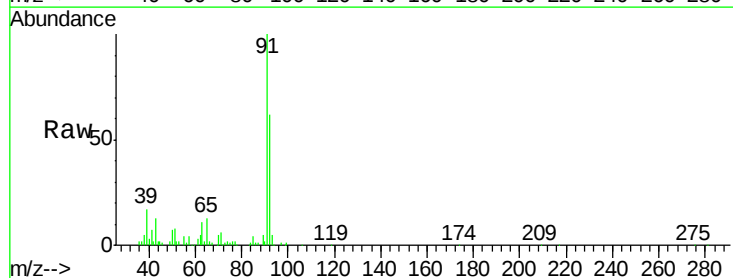
#52
Tetrachloroethene
Concen: 6.689 ppbv
RT: 11.38 min Scan# 2627
Delta R.T. 0.01 min
Lab File: VL033217.D
Acq: 15 Feb 2019 3:31

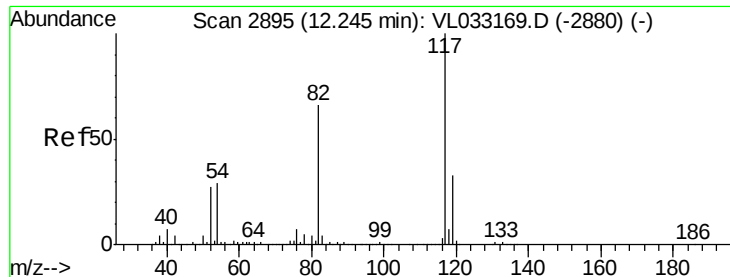
Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.3	100.9	151.3
129	102.9	83.9	125.9
131	101.1	76.2	114.2



#53
Toluene
Concen: 0.671 ppbv
RT: 9.96 min Scan# 2183
Delta R.T. 0.00 min
Lab File: VL033217.D
Acq: 15 Feb 2019 3:31

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.1	48.0	72.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL033217.D

Acq: 15 Feb 2019 3:31

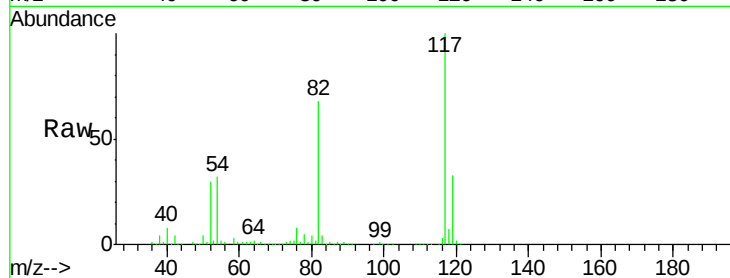
Tgt Ion: 117 Resp: 2034225

Ion Ratio Lower Upper

117 100

82 67.8 49.5 74.3

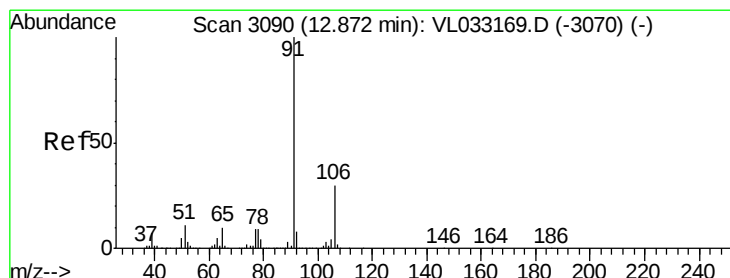
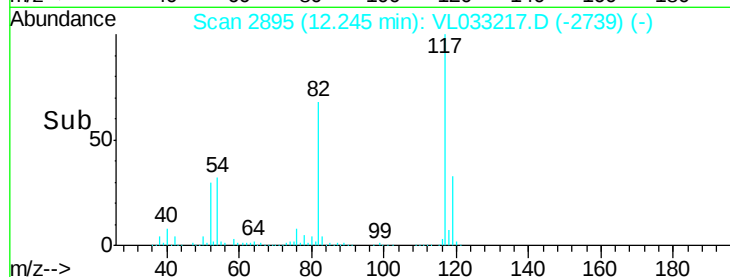
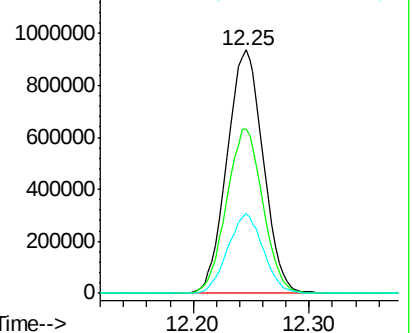
119 32.1 24.4 36.6



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.518 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.00 min

Lab File: VL033217.D

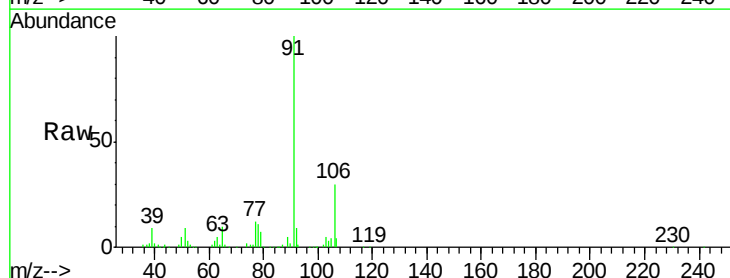
Acq: 15 Feb 2019 3:31

Tgt Ion: 91 Resp: 170384

Ion Ratio Lower Upper

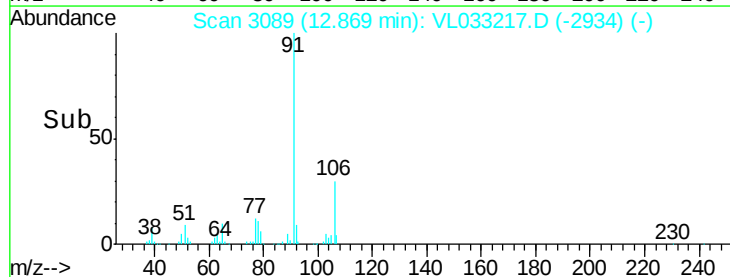
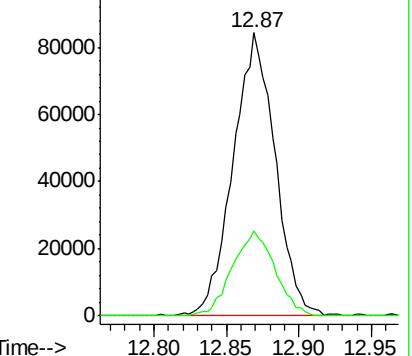
91 100

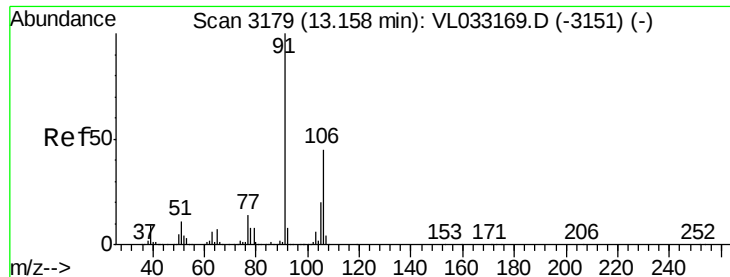
106 30.2 23.8 35.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

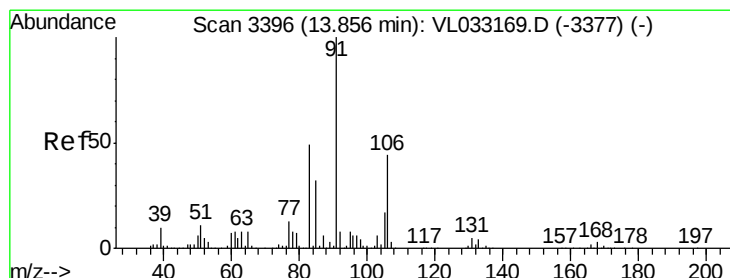
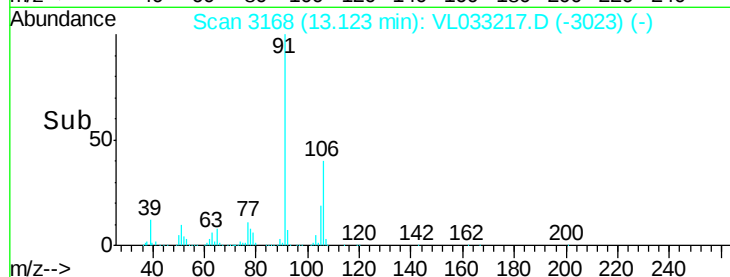
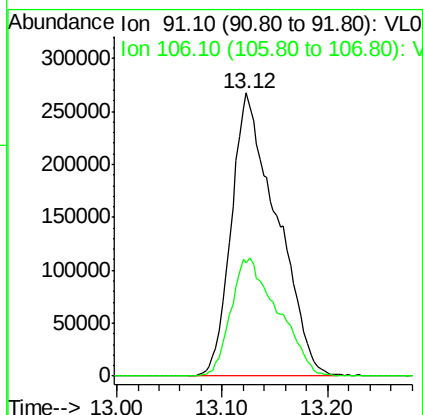
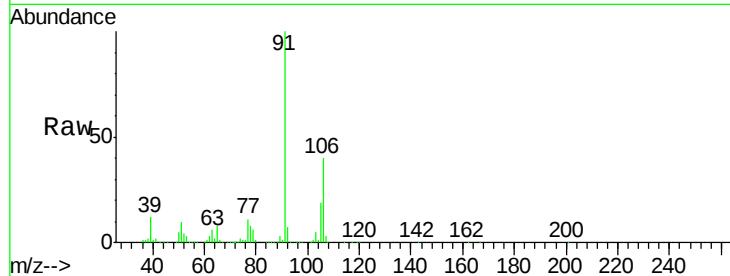
Ion 106.10 (105.80 to 106.80): V





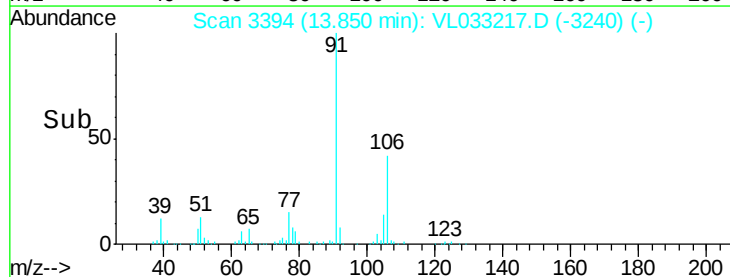
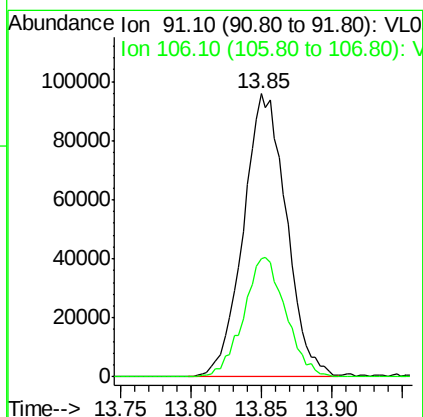
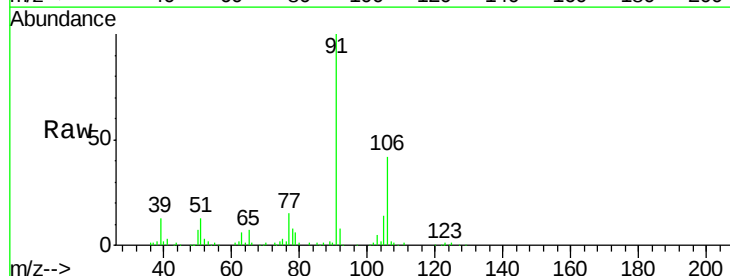
#59
m/p-Xylene
Concen: 2.901 ppbv
RT: 13.12 min Scan# 3168
Delta R.T. -0.04 min
Lab File: VL033217.D
Acq: 15 Feb 2019 3:31

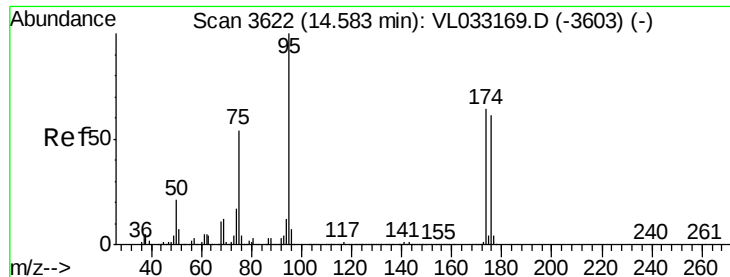
Tgt Ion: 91 Resp: 797109
Ion Ratio Lower Upper
91 100
106 43.3 0.0 0.0#



#60
o-Xylene
Concen: 0.767 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033217.D
Acq: 15 Feb 2019 3:31

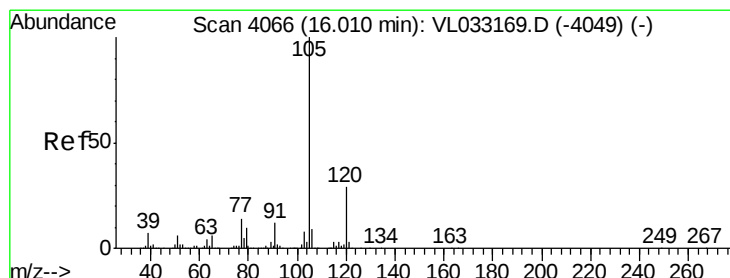
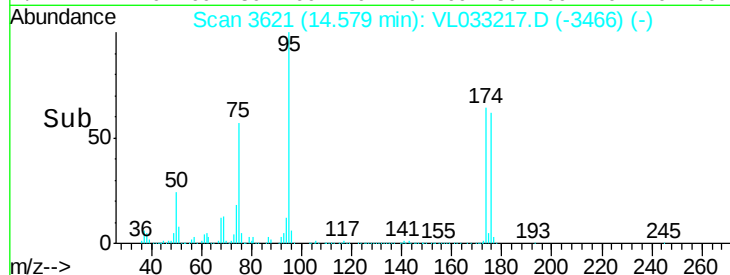
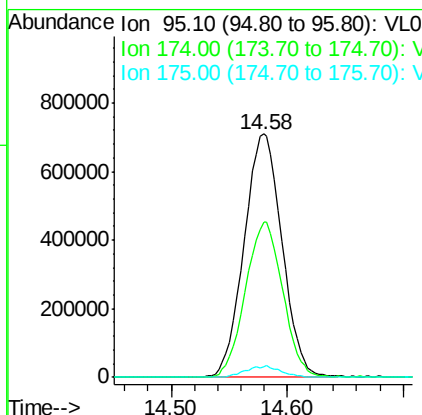
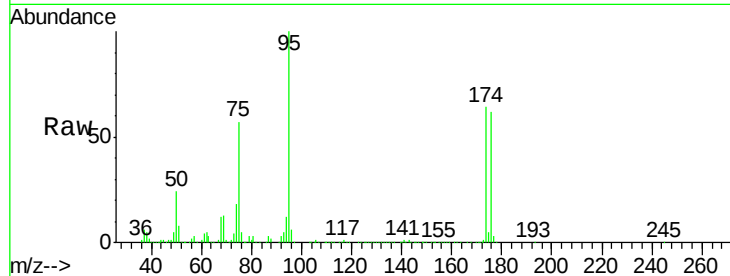
Tgt Ion: 91 Resp: 205038
Ion Ratio Lower Upper
91 100
106 41.5 21.8 65.3





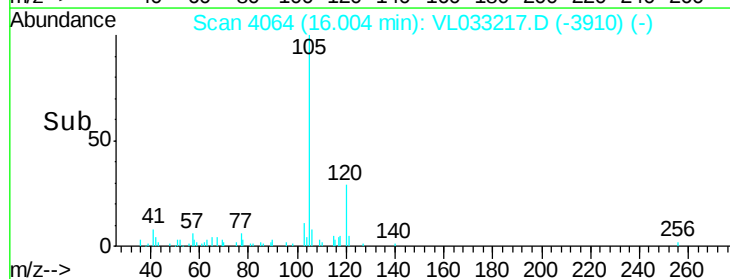
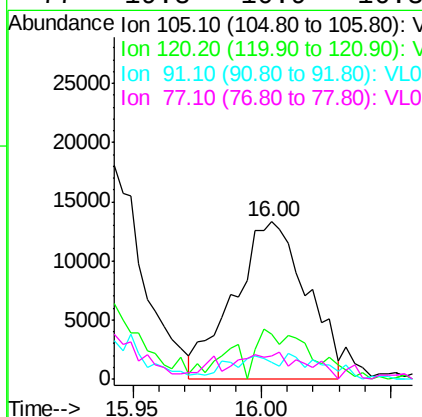
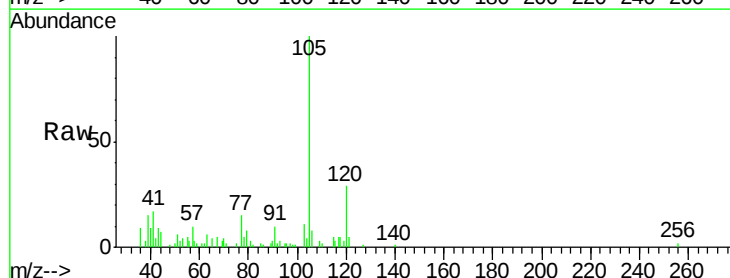
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.322 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.00 min
 Lab File: VL033217.D
 Acq: 15 Feb 2019 3:31

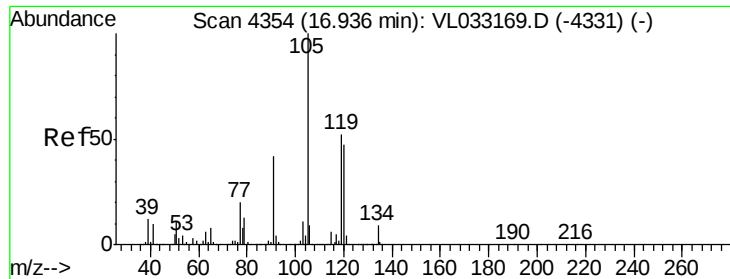
Tgt Ion: 95 Resp: 1617049
 Ion Ratio Lower Upper
 95 100
 174 62.9 51.2 76.8
 175 4.5 3.8 5.6



#72
 4-Ethyltoluene
 Concen: 0.085 ppbv
 RT: 16.00 min Scan# 4064
 Delta R.T. -0.01 min
 Lab File: VL033217.D
 Acq: 15 Feb 2019 3:31

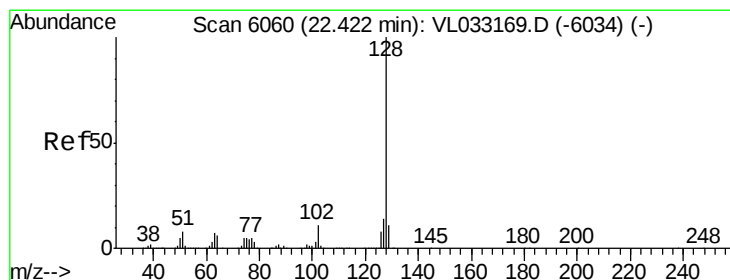
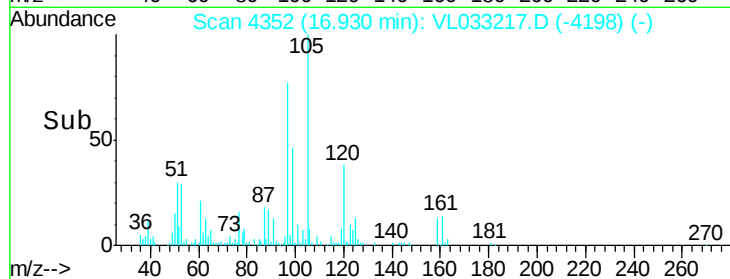
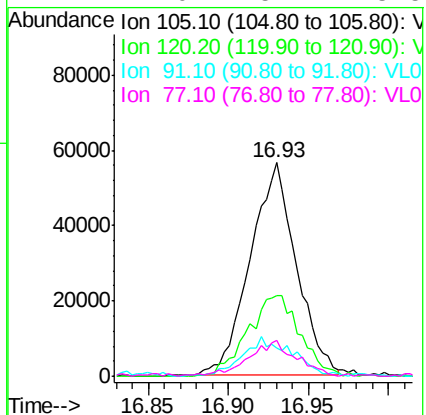
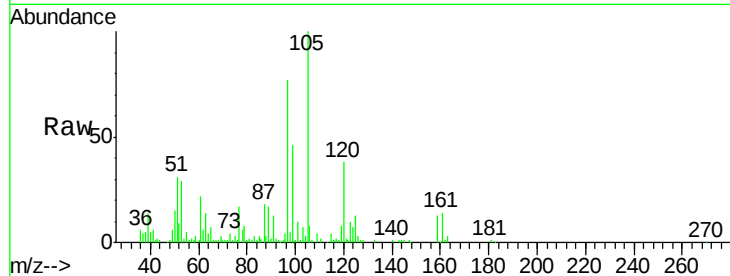
Tgt Ion: 105 Resp: 26089
 Ion Ratio Lower Upper
 105 100
 120 31.4 23.1 34.7
 91 18.3 9.8 14.6#
 77 19.8 10.9 16.3#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.368 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. -0.01 min
 Lab File: VL033217.D
 Acq: 15 Feb 2019 3:31

Tgt Ion:	105	Resp:	112448
Ion Ratio	Lower	Upper	
105	100		
120	38.0	37.9	56.9
91	14.5	34.0	51.0#
77	17.0	15.7	23.5



#79
 Naphthalene
 Concen: 0.044 ppbv
 RT: 22.42 min Scan# 6061
 Delta R.T. 0.00 min
 Lab File: VL033217.D
 Acq: 15 Feb 2019 3:31

Tgt Ion:	128	Resp:	14467
Ion Ratio	Lower	Upper	
128	100		
127	14.8	11.0	16.4
129	10.3	8.6	12.8

