

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
 Data File : VL033203.D
 Acq On : 14 Feb 2019 18:19
 Operator : SY/AP
 Sample : K1483-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 04:17:40 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	5.76	49	937980	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2121668	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2217567	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1770413	10.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	63175	0.352	ppbv	95
3) Chlorodifluoromethane	3.02	51	39232	0.347	ppbv	100
4) Chloromethane	3.17	50	7939	0.133	ppbv #	85
7) Chloroethane	3.60	64	27263	1.339	ppbv	95
9) Propene	3.24	41	127408	2.335	ppbv	97
10) Heptane	8.25	43	27740	0.168	ppbv	96
11) Trichlorofluoromethane	4.01	101	47735	0.329	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	123355	1.226	ppbv	100
13) Ethanol	3.65	45	43370	2.384	ppbv	93
15) Acetone	3.90	43	677316	6.409	ppbv #	83
16) 1,3-Butadiene	3.34	39	24592	0.490	ppbv #	9
17) tert-Butyl alcohol	4.36	59	21502	1.067	ppbv #	74
18) 1,1-Dichloroethene	4.35	96	57775	1.283	ppbv	93
19) Isopropyl Alcohol	4.02	45	905968	12.641	ppbv	100
20) Methylene Chloride	4.41	84	71165	1.693	ppbv	94
21) Allyl Chloride	4.43	41	12268	0.176	ppbv #	58
22) trans-1,2-Dichloroethene	4.96	96	13410	0.307	ppbv #	89
23) Vinyl Acetate	5.14	43	41422	0.226	ppbv #	1
24) 1,1-Dichloroethane	5.09	63	3462528	26.728	ppbv	100
25) Ethyl Acetate	5.78	43	43136	0.182	ppbv #	79
26) Hexane	5.78	57	90282	0.809	ppbv #	43
27) Carbon Disulfide	4.62	76	4873	0.048	ppbv #	27
29) Chloroform	5.85	83	19891	0.116	ppbv #	75
30) Cyclohexane	7.25	84	10432	0.101	ppbv #	11
31) cis-1,2-Dichloroethene	5.64	61	30812	0.276	ppbv #	85
32) 1,1,1-Trichloroethane	6.62	97	5482456	29.128	ppbv	98
34) 2-Butanone	5.34	43	49528	0.368	ppbv	93
36) Benzene	7.01	78	46404	0.216	ppbv #	95
37) 1,2-Dichloroethane	6.41	62	5266	0.044	ppbv #	82
38) Trichloroethene	7.96	130	88875	0.965	ppbv	90
39) 1,2-Dichloropropane	7.29	63	573270	6.751	ppbv #	25
40) 1,4-Dioxane	7.96	88	131946	4.275	ppbv #	1
44) 2,2,4-Trimethylpentane	7.99	57	86072	0.236	ppbv #	86
47) 1,1,2-Trichloroethane	9.61	97	4466	0.051	ppbv #	91
52) Tetrachloroethene	11.37	164	74285	0.899	ppbv	93
53) Toluene	9.94	91	121779	0.478	ppbv #	41
58) Ethyl Benzene	12.87	91	157465	0.439	ppbv	96
59) m/p-Xylene	13.12	91	689686	2.303	ppbv #	100
60) o-Xylene	13.85	91	181009	0.621	ppbv	97
72) 4-Ethyltoluene	16.00	105	23082	0.069	ppbv #	74
73) 1,3,5-Trimethylbenzene	16.15	105	25741	0.080	ppbv	99

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

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	16.93	105	110889	0.333	ppbv #	77
79) Naphthalene	22.41	128	10881	0.030	ppbv #	84
80) Naphthalene,2-methyl-	25.13	142	9524	0.053	ppbv #	92

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

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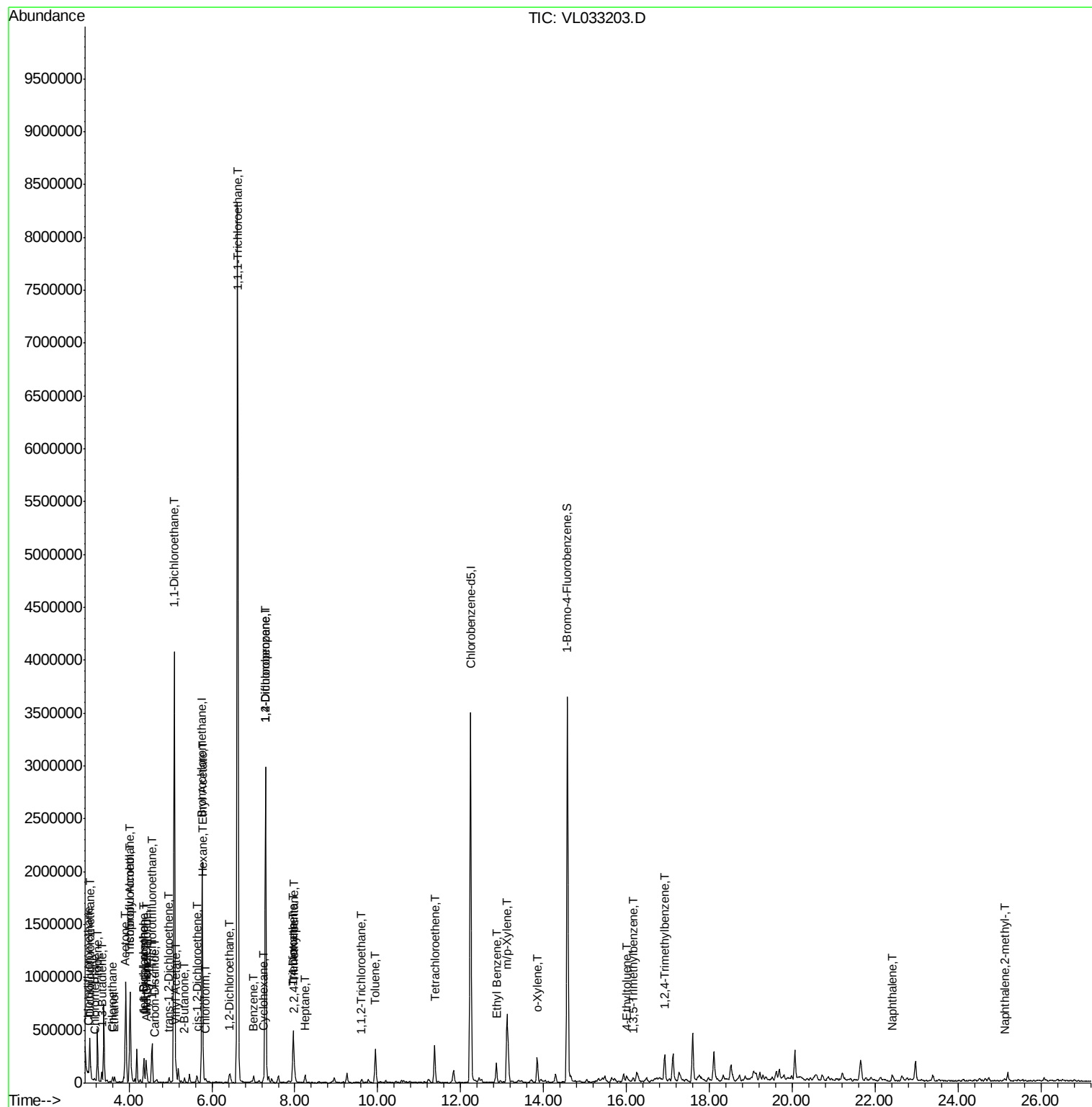
Quant Time: Feb 15 04:17:40 2019

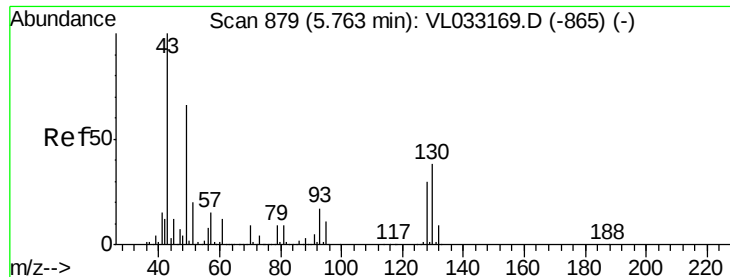
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M

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

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

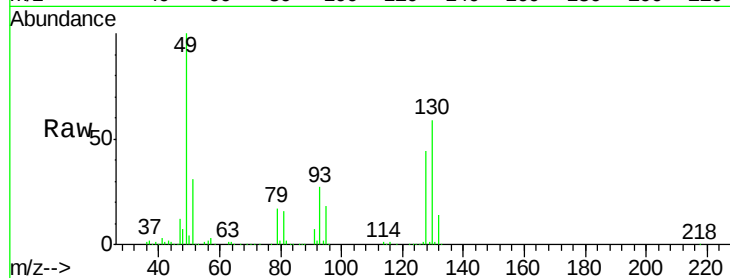
Tgt Ion: 49 Resp: 937980

Ion Ratio Lower Upper

49 100

128 45.9 23.6 71.0

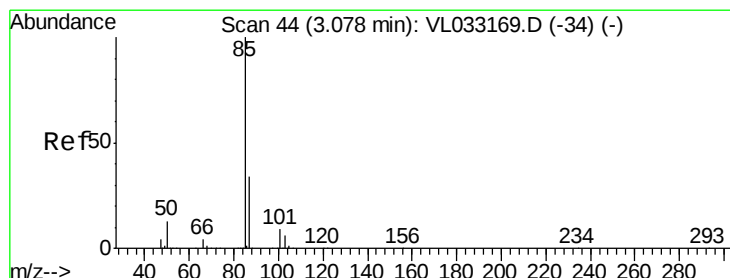
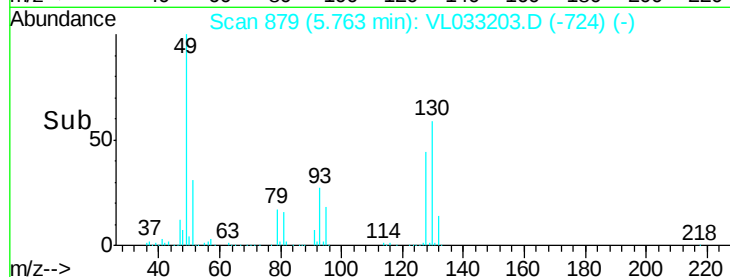
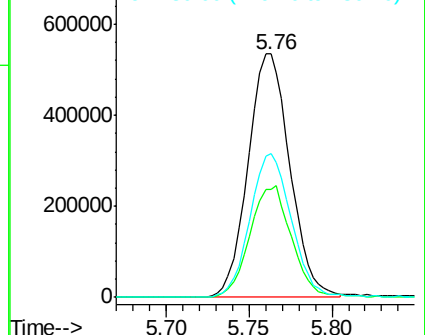
130 58.9 30.3 91.0



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



#2

Dichlorodifluoromethane

Concen: 0.352 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033203.D

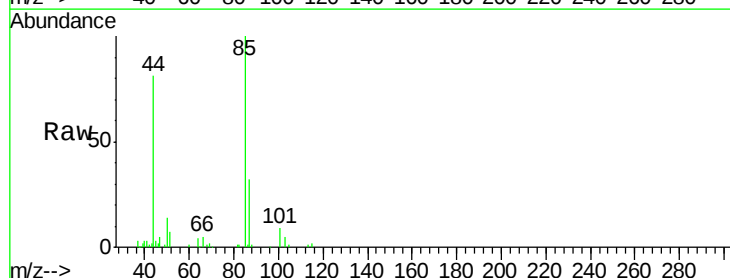
Acq: 14 Feb 2019 18:19

Tgt Ion: 85 Resp: 63175

Ion Ratio Lower Upper

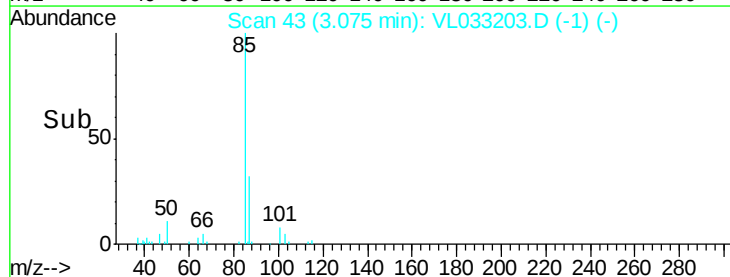
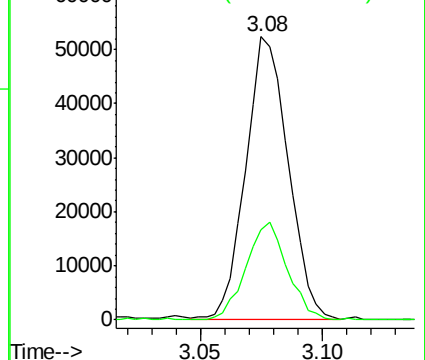
85 100

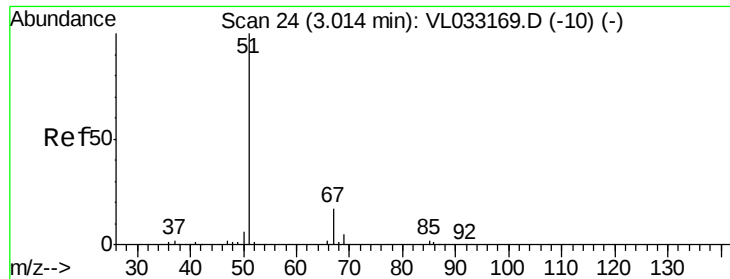
87 31.7 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.347 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033203.D

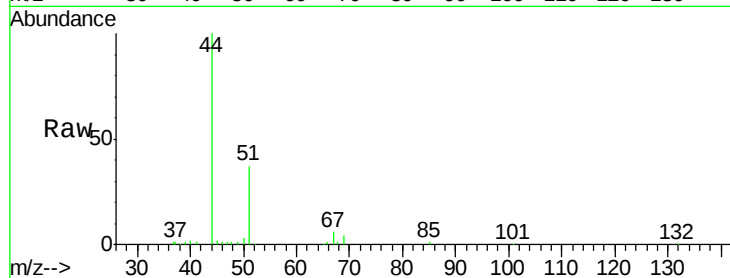
Acq: 14 Feb 2019 18:19

Tgt Ion: 51 Resp: 39232

Ion Ratio Lower Upper

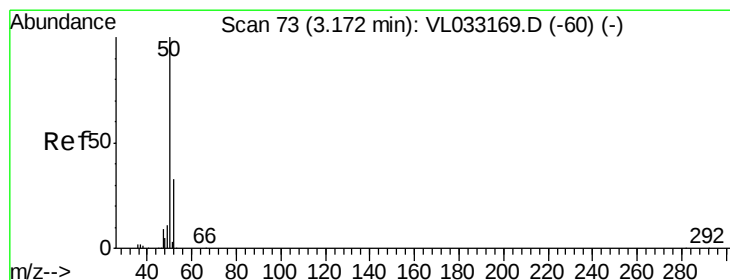
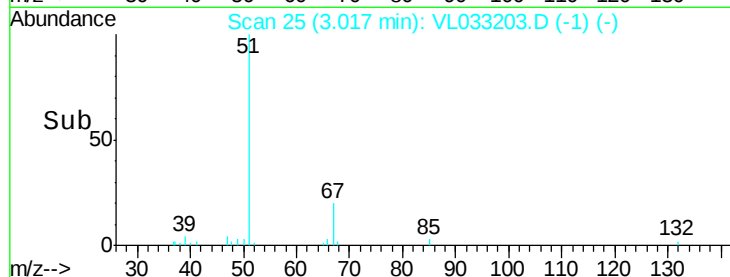
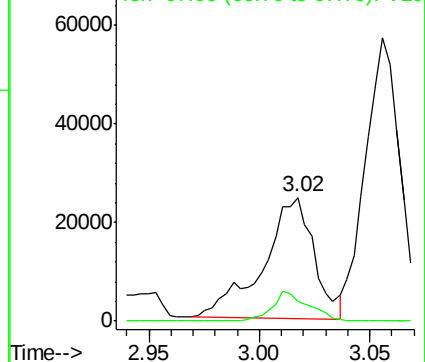
51 100

67 17.3 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.133 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033203.D

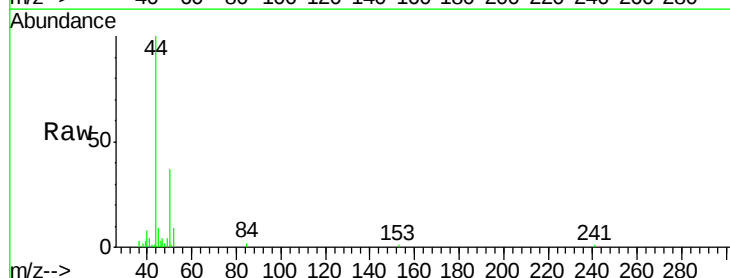
Acq: 14 Feb 2019 18:19

Tgt Ion: 50 Resp: 7939

Ion Ratio Lower Upper

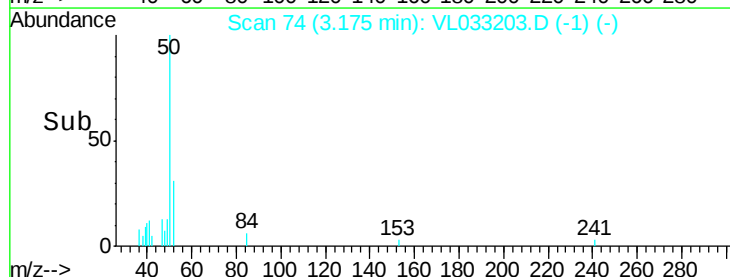
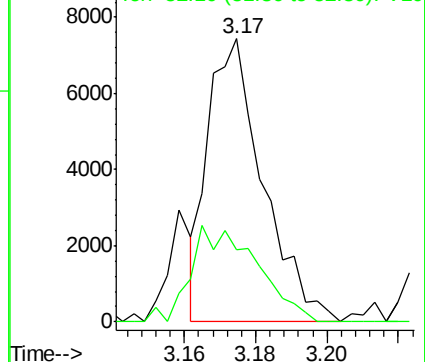
50 100

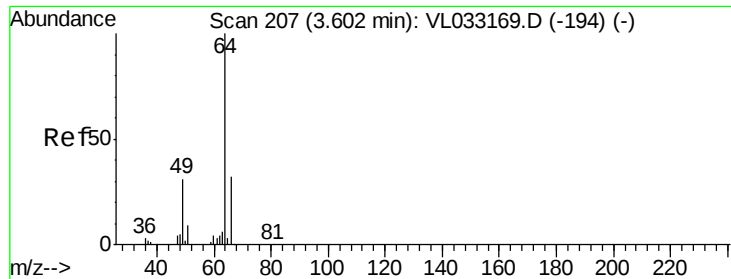
52 24.7 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 1.339 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033203.D

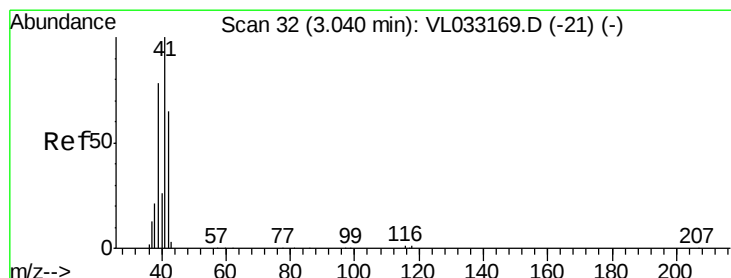
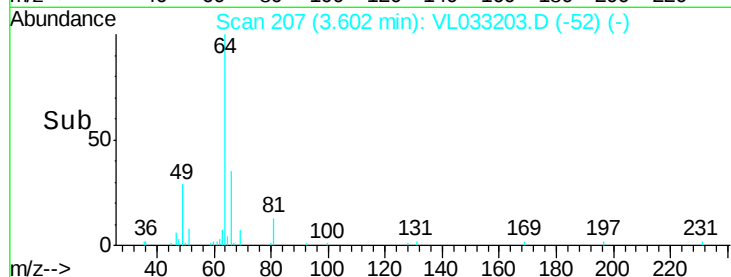
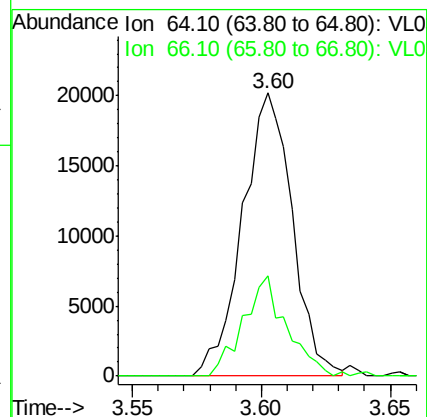
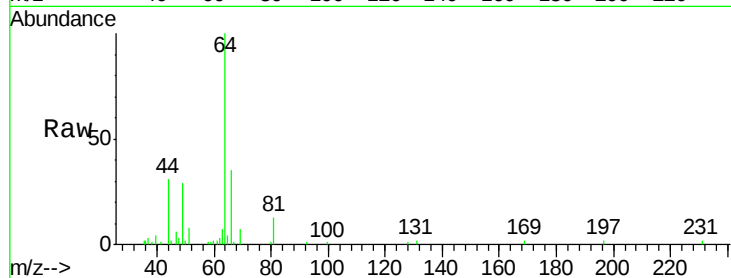
Acq: 14 Feb 2019 18:19

Tgt Ion: 64 Resp: 27263

Ion Ratio Lower Upper

64 100

66 35.4 26.0 39.0



#9

Propene

Concen: 2.335 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL033203.D

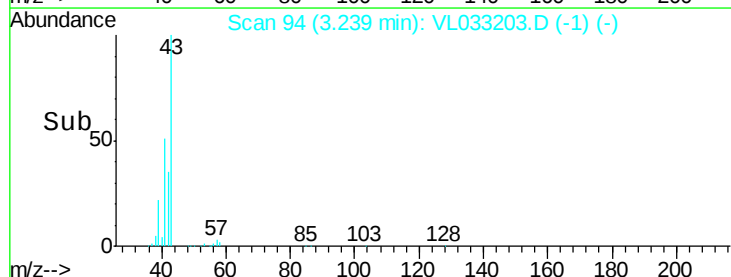
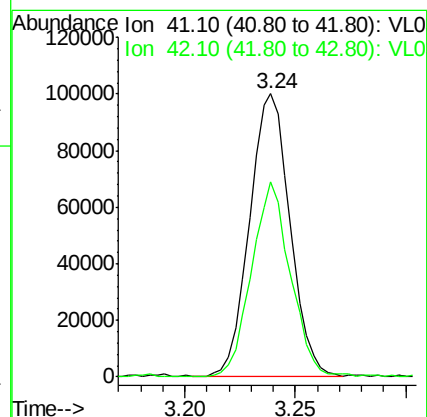
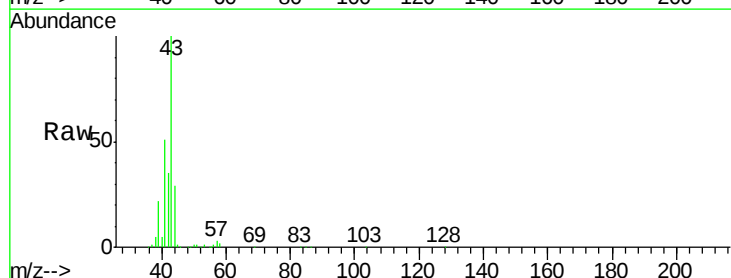
Acq: 14 Feb 2019 18:19

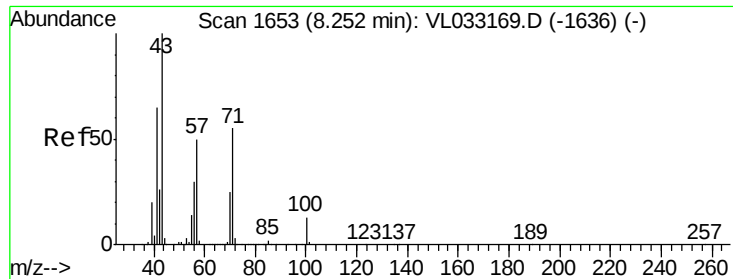
Tgt Ion: 41 Resp: 127408

Ion Ratio Lower Upper

41 100

42 66.5 55.0 82.6





#10

Heptane

Concen: 0.168 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL033203.D

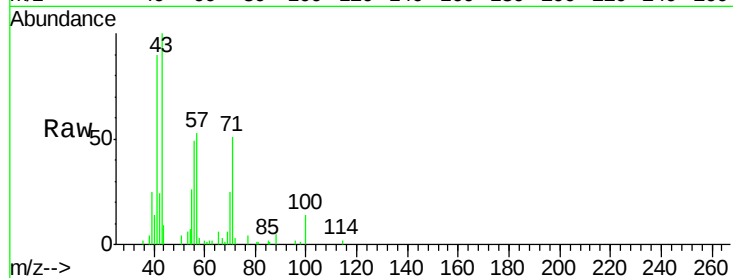
Acq: 14 Feb 2019 18:19

Tgt Ion: 43 Resp: 27740

Ion Ratio Lower Upper

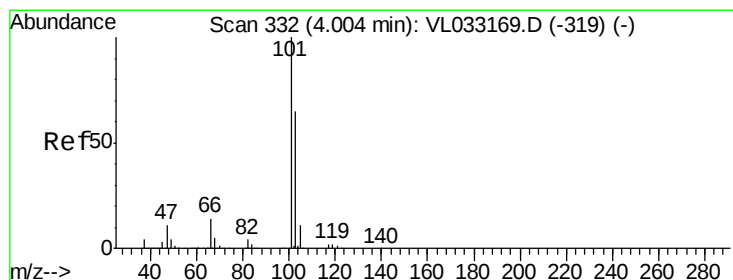
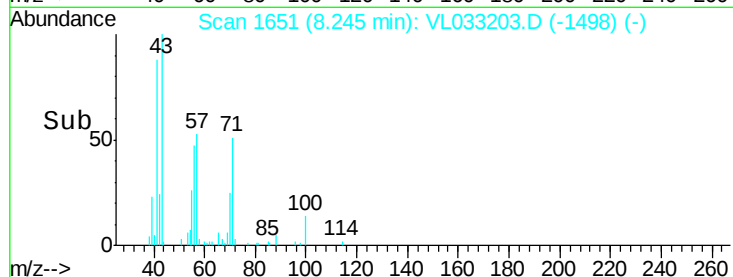
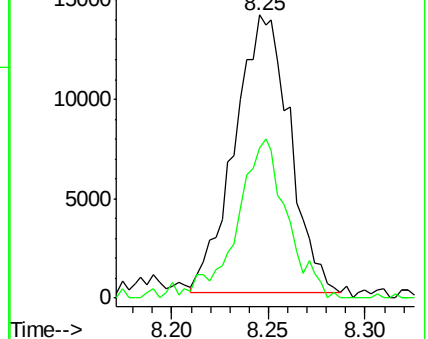
43 100

57 52.3 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: 0.329 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033203.D

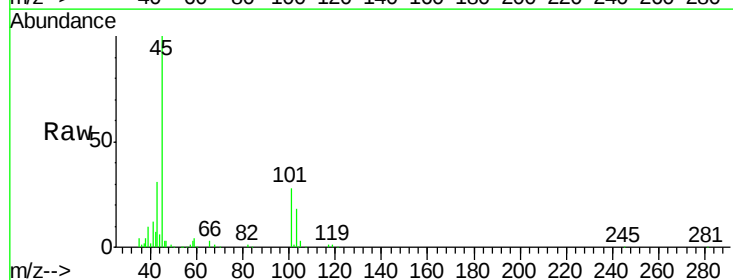
Acq: 14 Feb 2019 18:19

Tgt Ion: 101 Resp: 47735

Ion Ratio Lower Upper

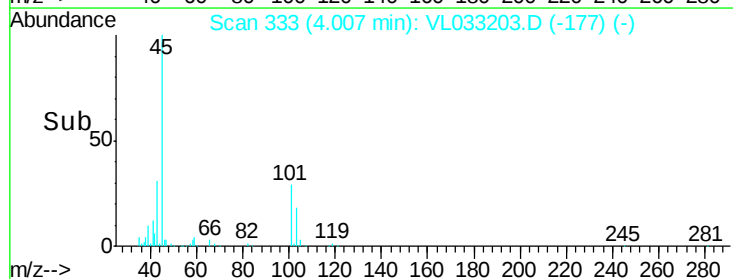
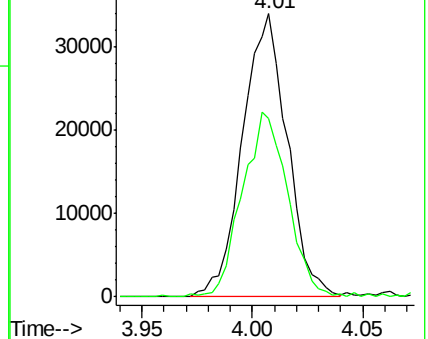
101 100

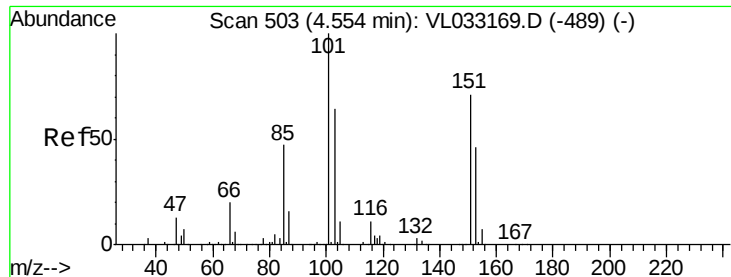
103 61.9 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.226 ppbv

RT: 4.55 min Scan# 503

Delta R.T. -0.00 min

Lab File: VL033203.D

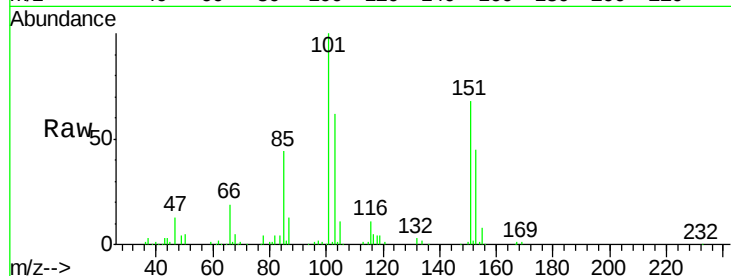
Acq: 14 Feb 2019 18:19

Tgt Ion: 101 Resp: 123355

Ion Ratio Lower Upper

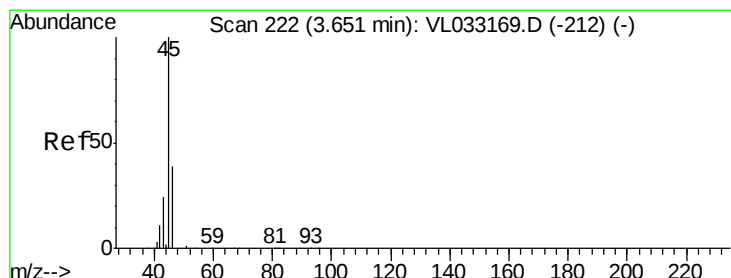
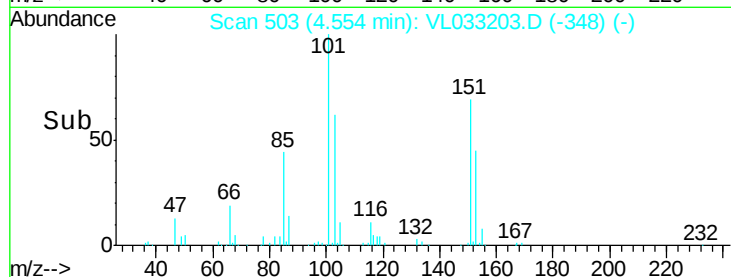
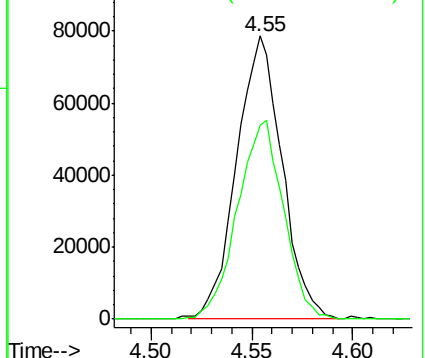
101 100

151 71.4 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 2.384 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033203.D

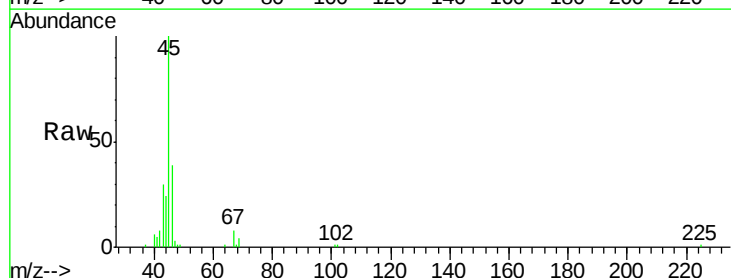
Acq: 14 Feb 2019 18:19

Tgt Ion: 45 Resp: 43370

Ion Ratio Lower Upper

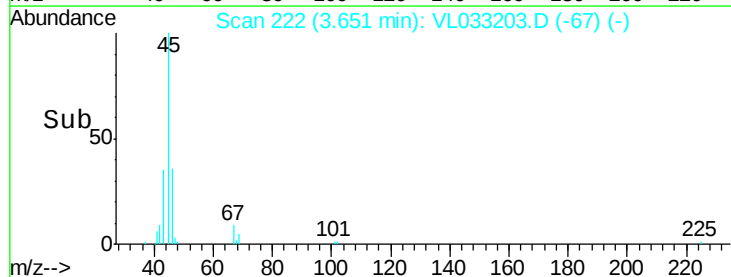
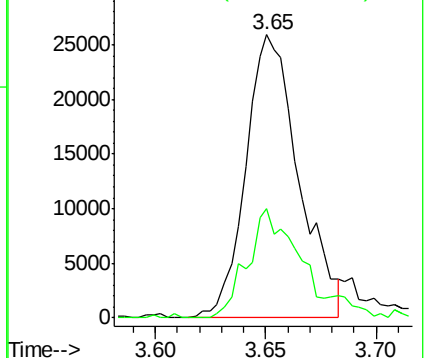
45 100

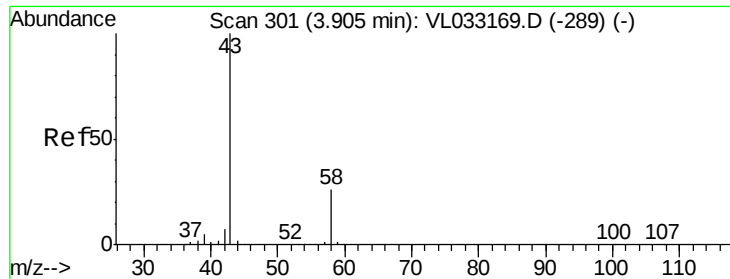
46 41.6 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 6.409 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL033203.D

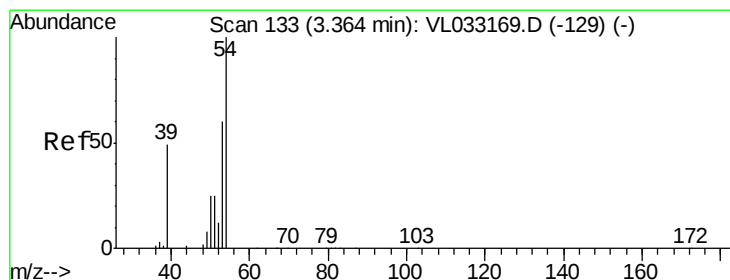
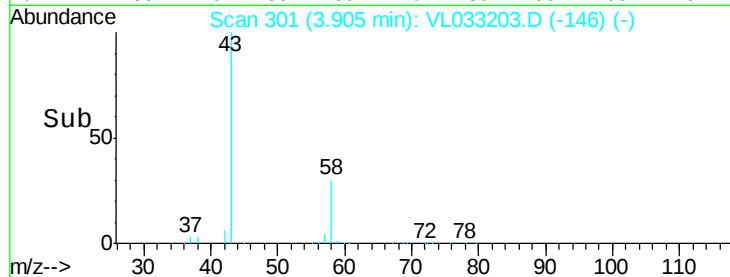
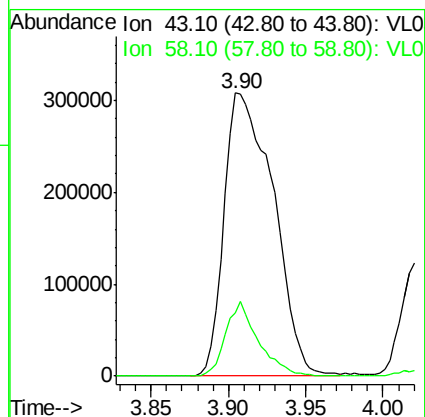
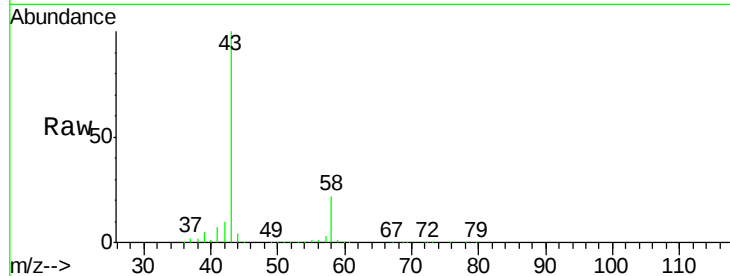
Acq: 14 Feb 2019 18:19

Tgt Ion: 43 Resp: 677316

Ion Ratio Lower Upper

43 100

58 17.8 21.1 31.7#



#16

1,3-Butadiene

Concen: 0.490 ppbv

RT: 3.34 min Scan# 125

Delta R.T. -0.03 min

Lab File: VL033203.D

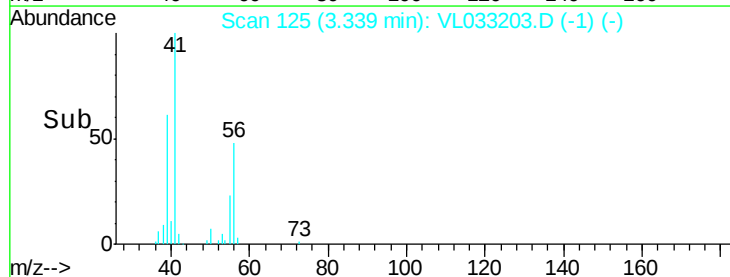
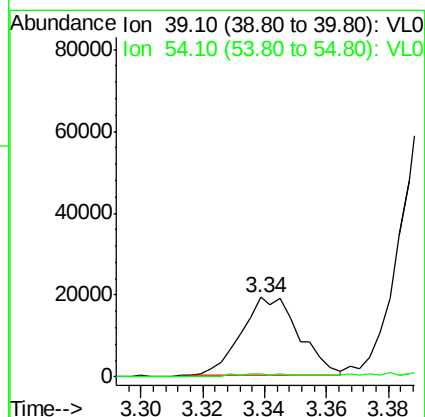
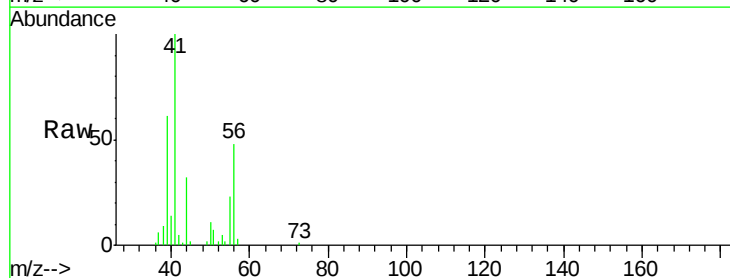
Acq: 14 Feb 2019 18:19

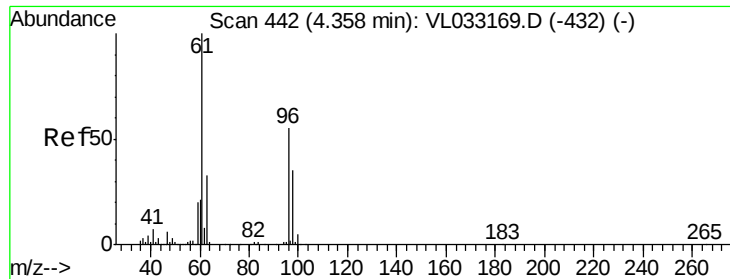
Tgt Ion: 39 Resp: 24592

Ion Ratio Lower Upper

39 100

54 4.1 71.3 106.9#

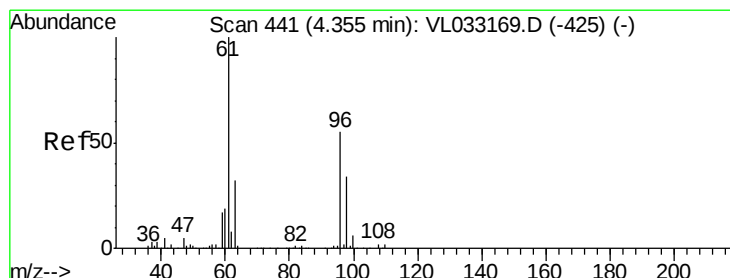
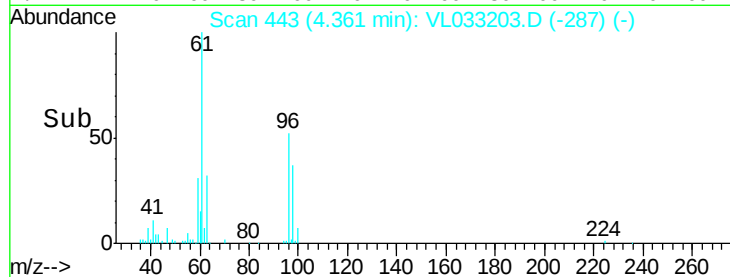
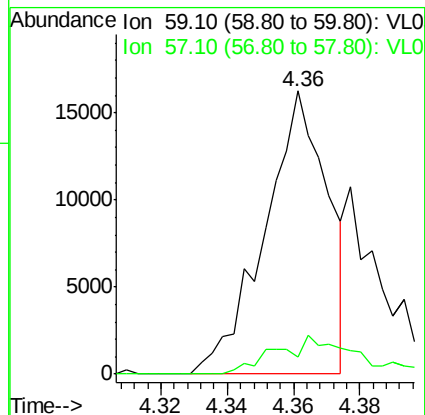
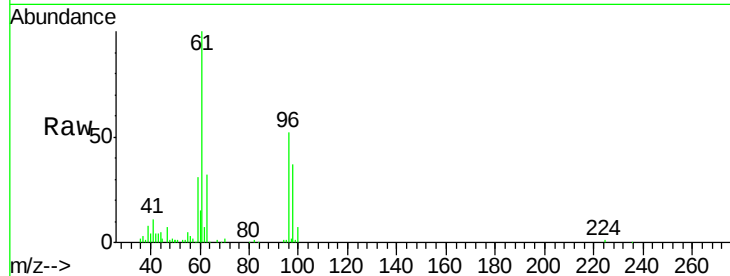




#17

tert-Butyl alcohol
Concen: 1.067 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL033203.D
Acq: 14 Feb 2019 18:19

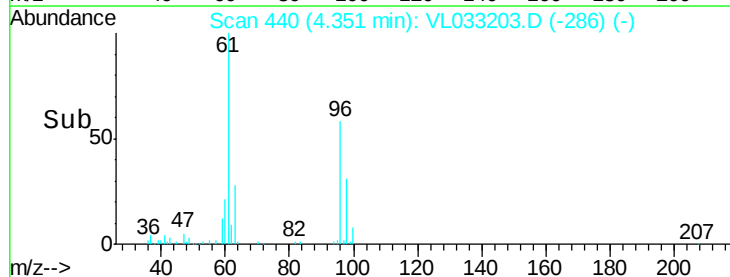
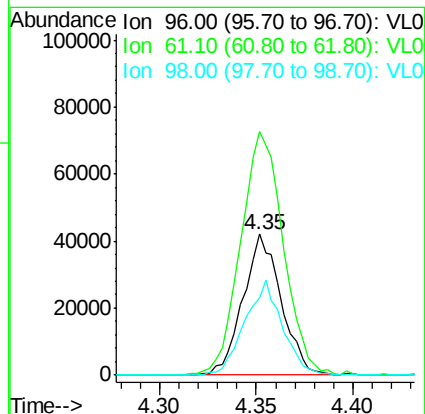
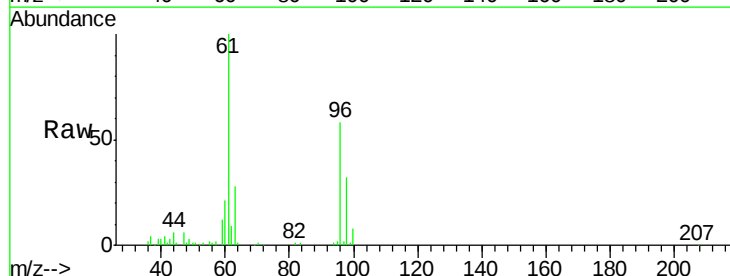
Tgt Ion: 59 Resp: 21502
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#

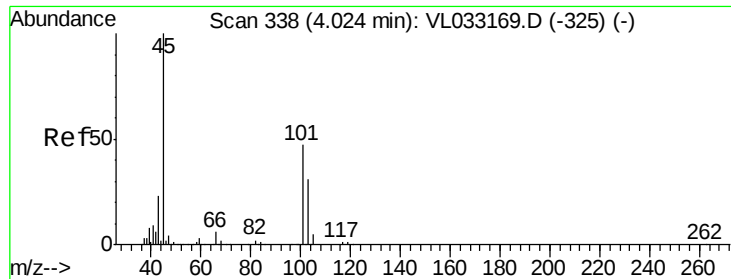


#18

1,1-Dichloroethene
Concen: 1.283 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033203.D
Acq: 14 Feb 2019 18:19

Tgt Ion: 96 Resp: 57775
Ion Ratio Lower Upper
96 100
61 172.4 145.0 217.6
98 54.5 50.0 75.0





#19

Isopropyl Alcohol

Concen: 12.641 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.00 min

Lab File: VL033203.D

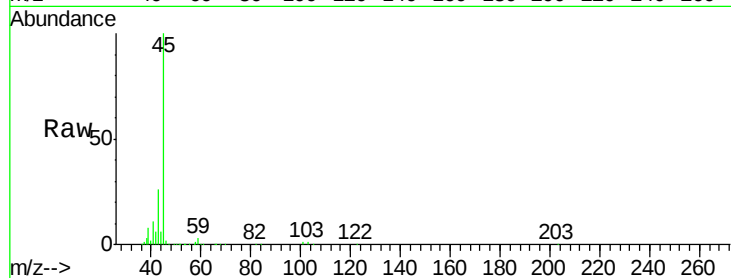
Acq: 14 Feb 2019 18:19

Tgt Ion: 45 Resp: 905968

Ion Ratio Lower Upper

45 100

58 1.8 1.5 2.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

500000

400000

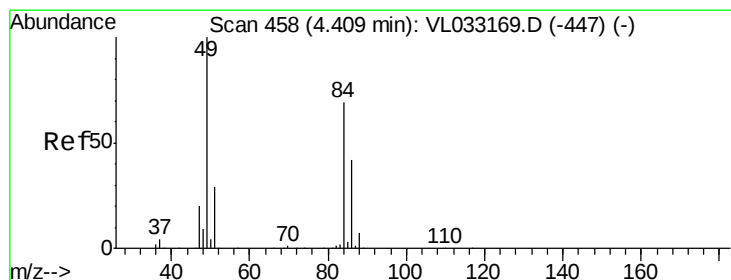
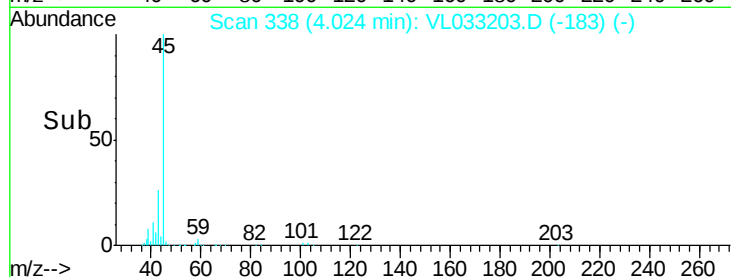
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 1.693 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

Tgt Ion: 84 Resp: 71165

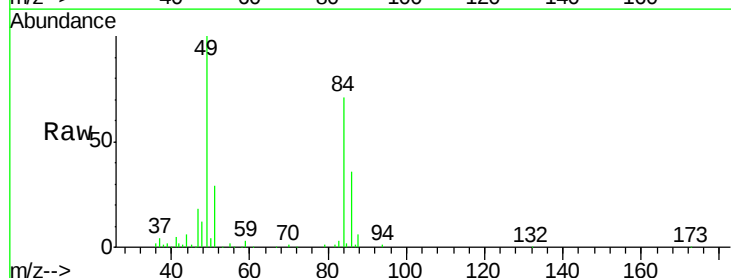
Ion Ratio Lower Upper

84 100

49 138.5 115.8 173.8

51 39.8 33.0 49.6

86 51.1 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

100000

80000

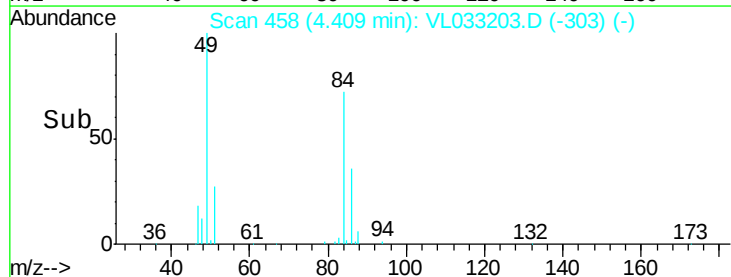
60000

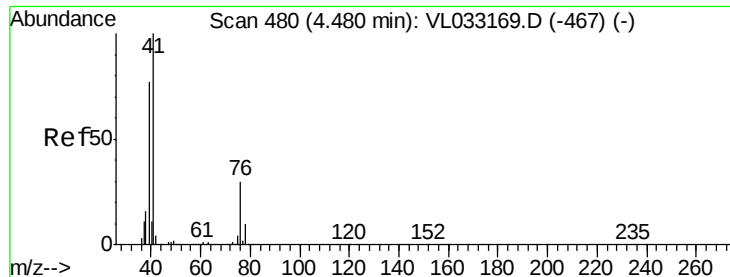
40000

20000

0

Time-->





#21

Allyl Chloride

Concen: 0.176 ppbv

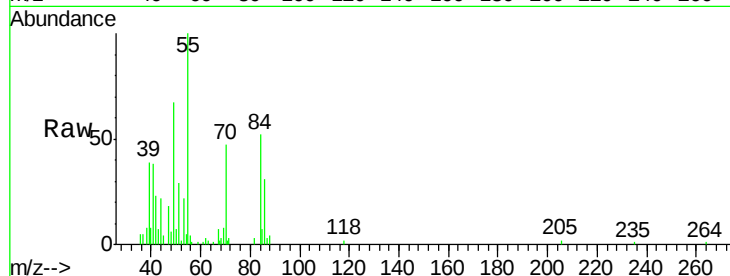
RT: 4.43 min Scan# 464

Delta R.T. -0.05 min

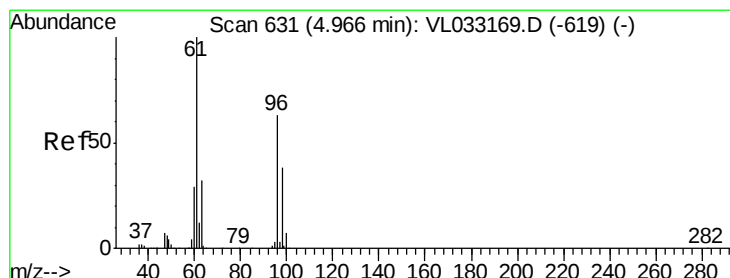
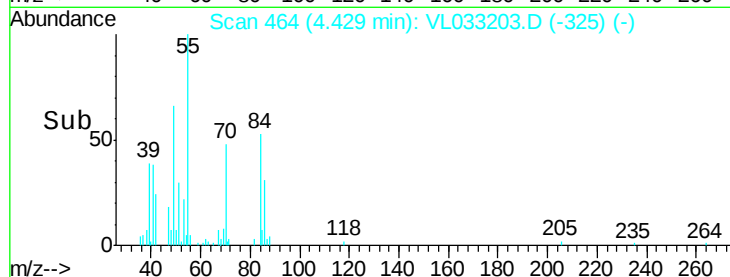
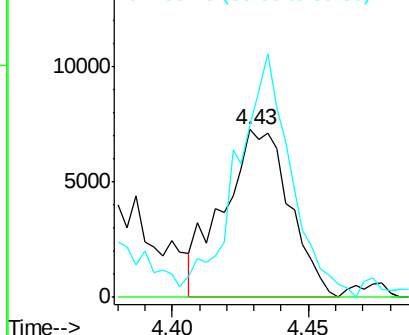
Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

Tgt Ion:	41	Resp:	12268
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.5	36.7#
39	112.1	64.1	96.1#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.307 ppbv

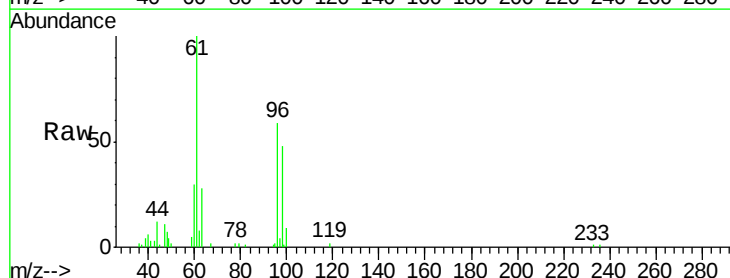
RT: 4.96 min Scan# 630

Delta R.T. -0.00 min

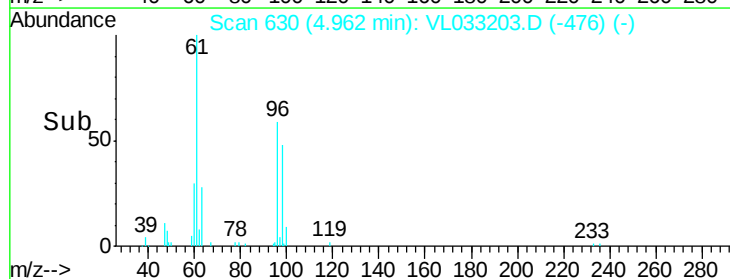
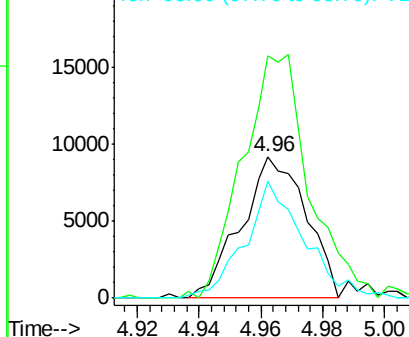
Lab File: VL033203.D

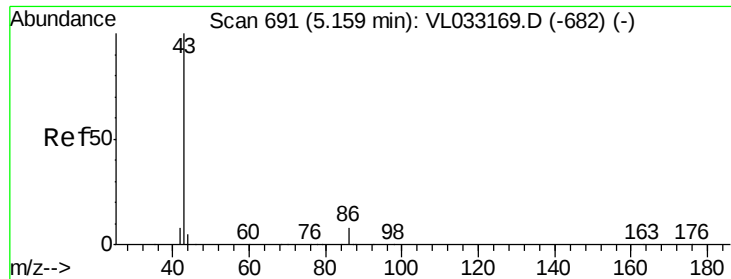
Acq: 14 Feb 2019 18:19

Tgt Ion:	96	Resp:	13410
Ion	Ratio	Lower	Upper
96	100		
61	165.9	126.4	189.6
98	80.0	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





#23

Vinyl Acetate

Concen: 0.226 ppbv

RT: 5.14 min Scan# 686

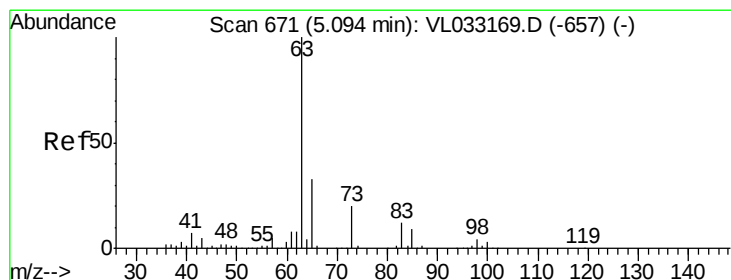
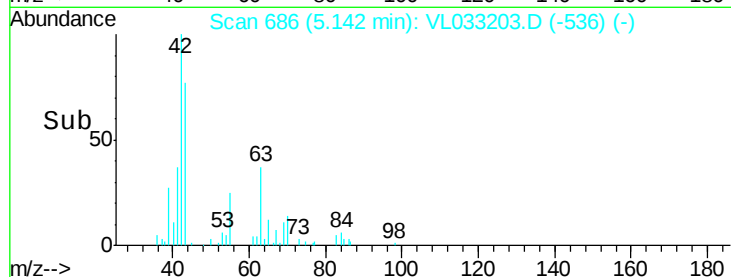
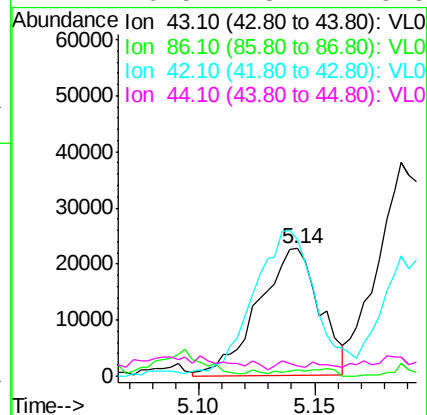
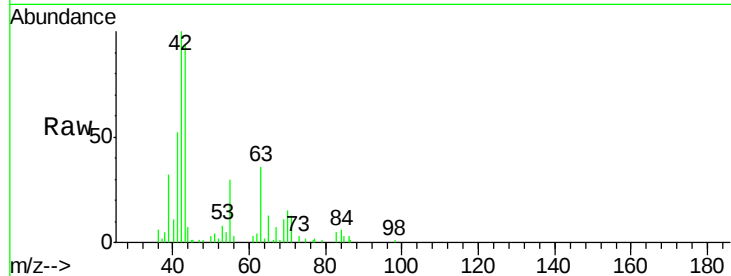
Delta R.T. -0.02 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

Tgt Ion: 43 Resp: 41422

Ion	Ratio	Lower	Upper
43	100		
86	5.2	5.8	8.8#
42	106.0	7.4	11.0#
44	0.5	3.7	5.5#



#24

1,1-Dichloroethane

Concen: 26.728 ppbv

RT: 5.09 min Scan# 670

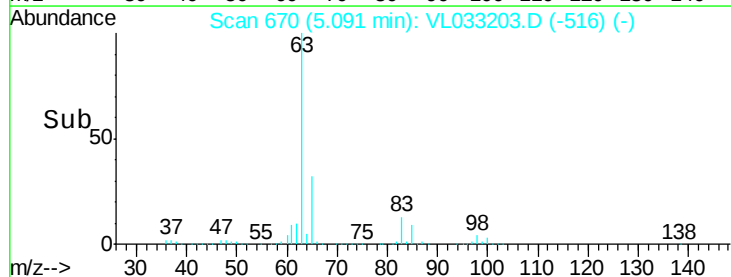
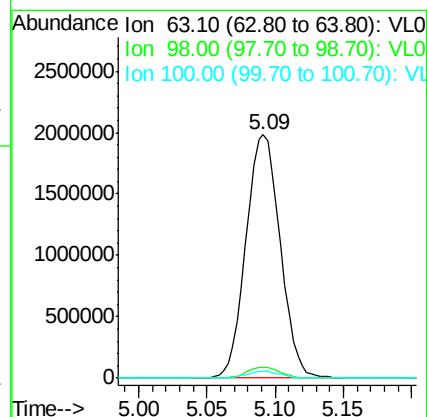
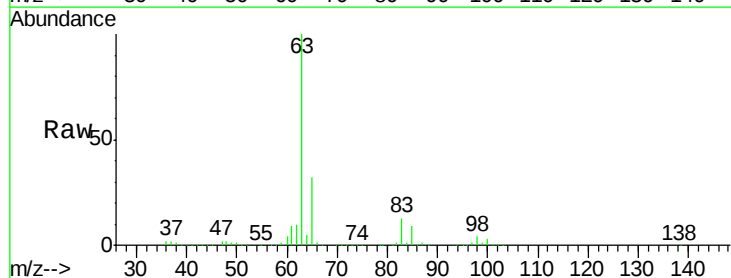
Delta R.T. -0.00 min

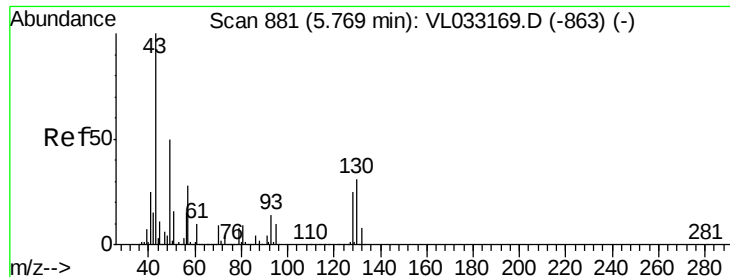
Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

Tgt Ion: 63 Resp: 3462528

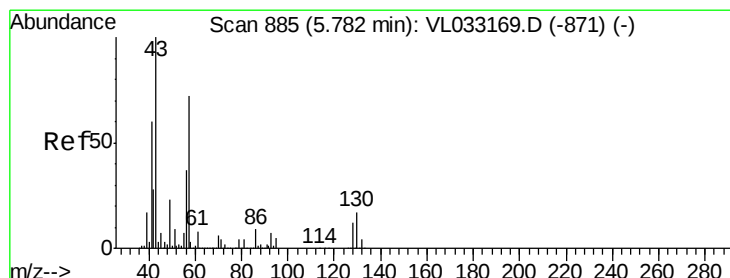
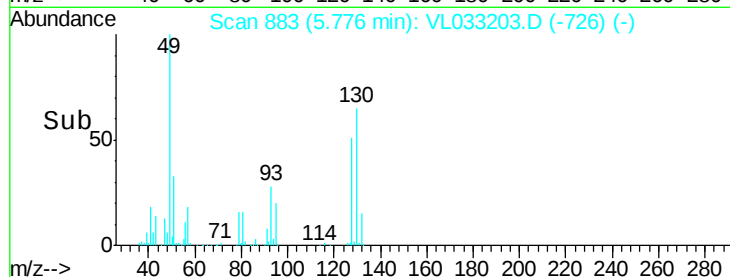
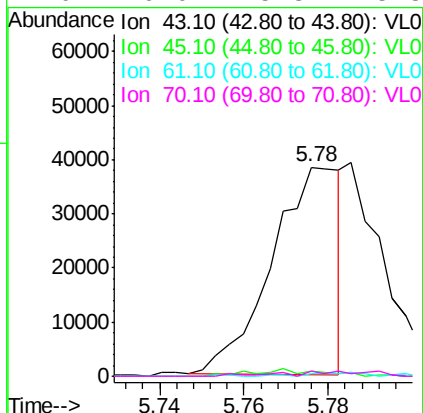
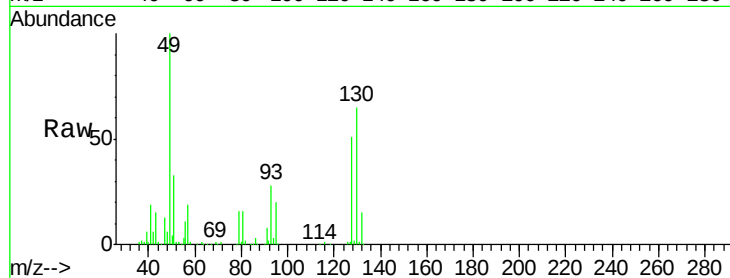
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.1	6.5
100	2.9	1.4	4.2





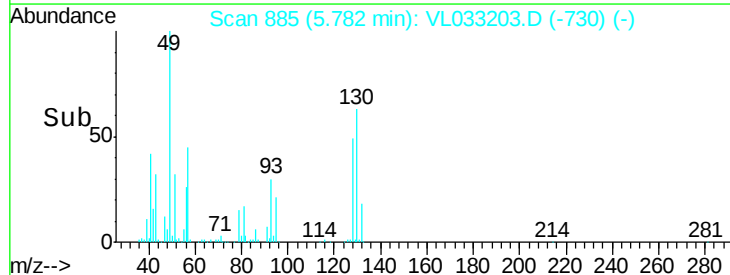
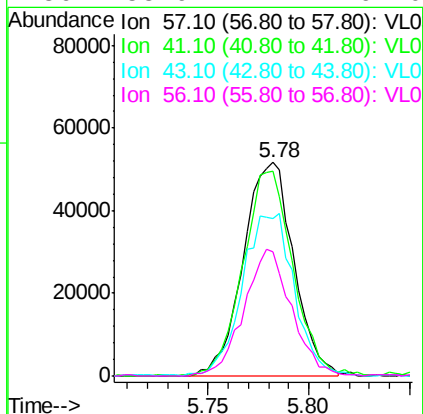
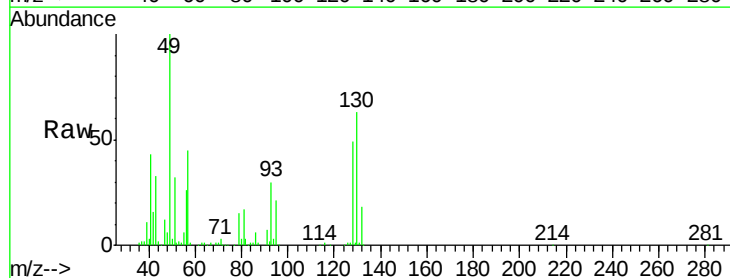
#25
Ethyl Acetate
Concen: 0.182 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033203.D
Acq: 14 Feb 2019 18:19

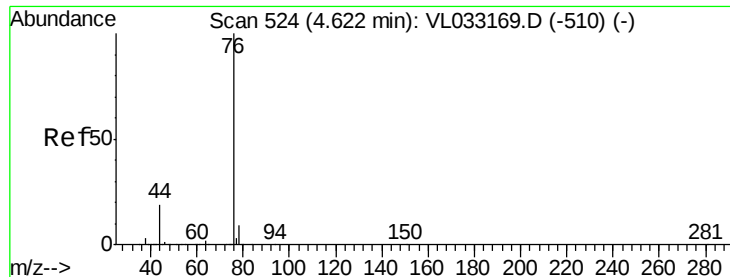
Tgt Ion:	43	Resp:	43136
Ion	Ratio	Lower	Upper
43	100		
45	3.7	7.9	11.9#
61	0.0	7.5	11.3#
70	0.0	5.8	8.8#



#26
Hexane
Concen: 0.809 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033203.D
Acq: 14 Feb 2019 18:19

Tgt Ion:	57	Resp:	90282
Ion	Ratio	Lower	Upper
57	100		
41	96.0	69.4	104.2
43	78.7	176.7	265.1#
56	55.9	41.4	62.0





#27

Carbon Disulfide

Concen: 0.048 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

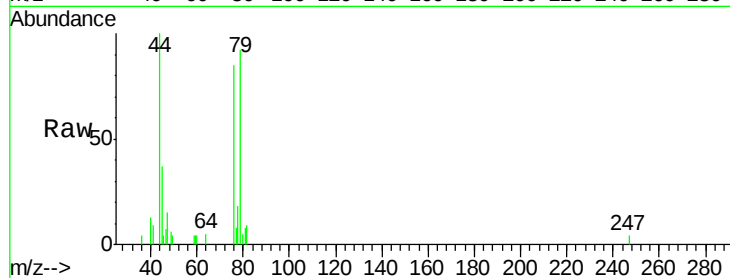
Tgt Ion: 76 Resp: 4873

Ion Ratio Lower Upper

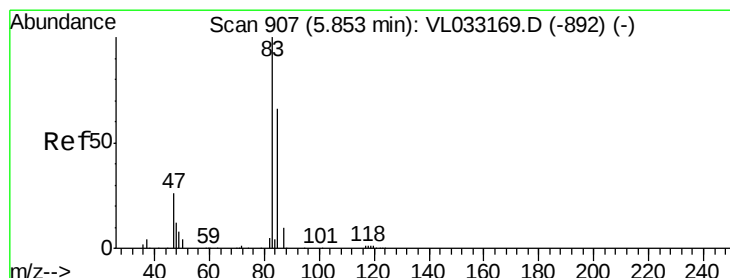
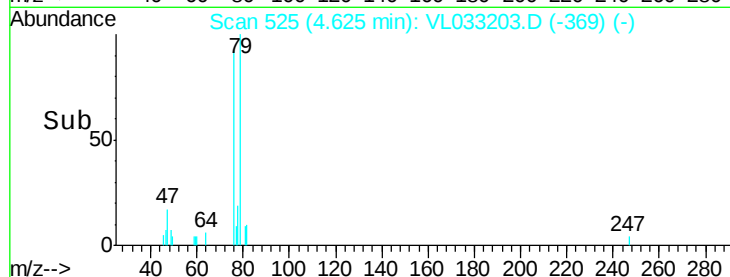
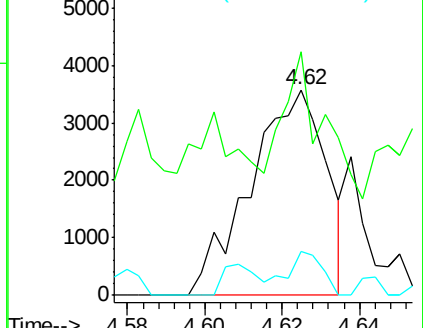
76 100

44 61.0 15.0 22.4#

78 20.5 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: 0.116 ppbv

RT: 5.85 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL033203.D

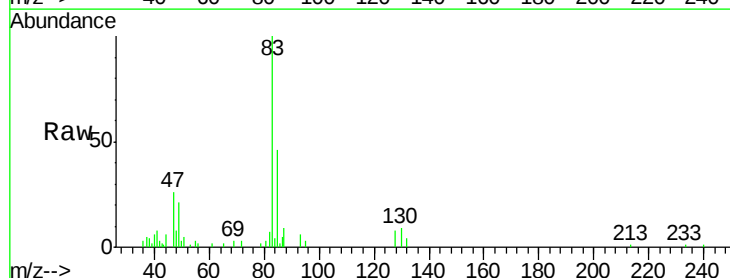
Acq: 14 Feb 2019 18:19

Tgt Ion: 83 Resp: 19891

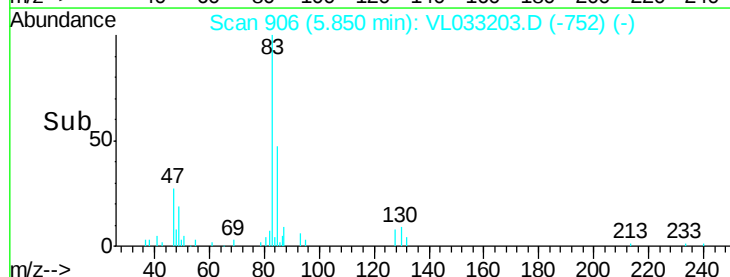
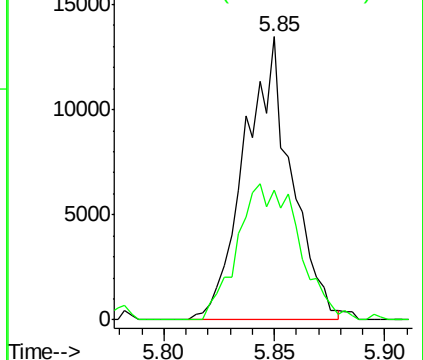
Ion Ratio Lower Upper

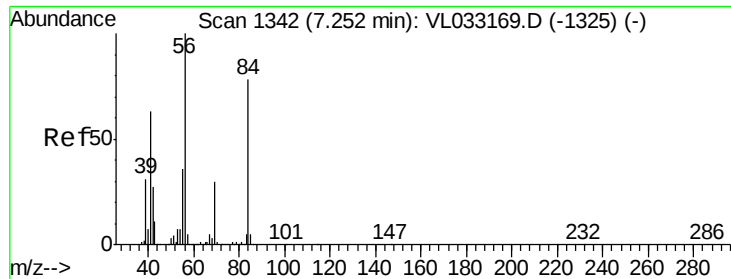
83 100

85 45.9 52.6 78.8#



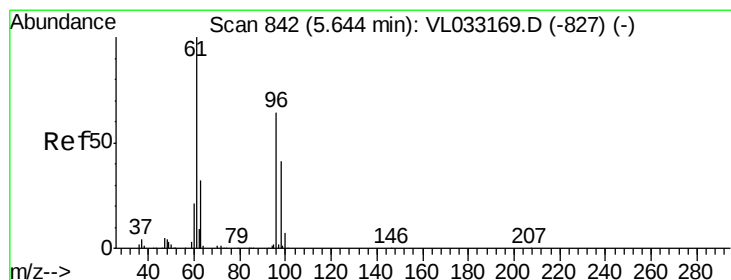
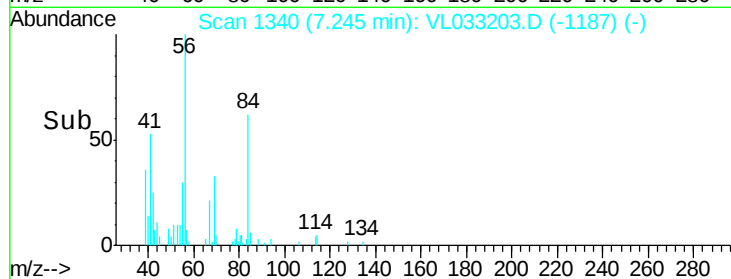
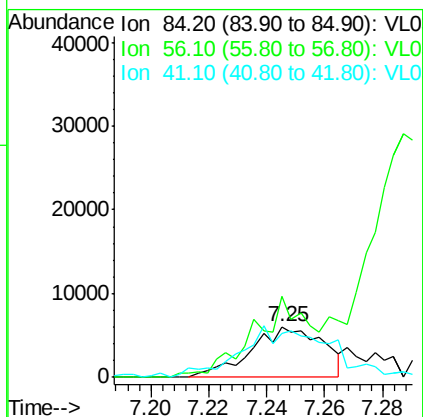
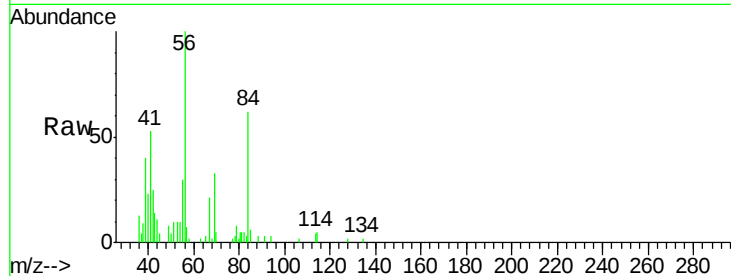
Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





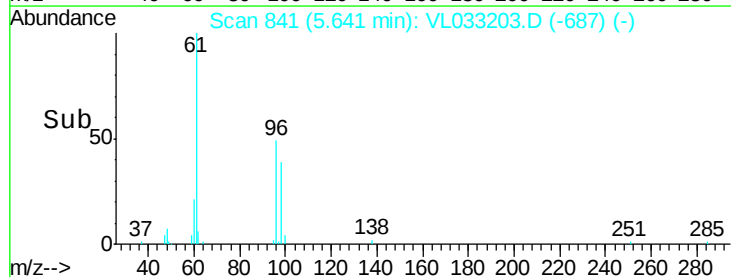
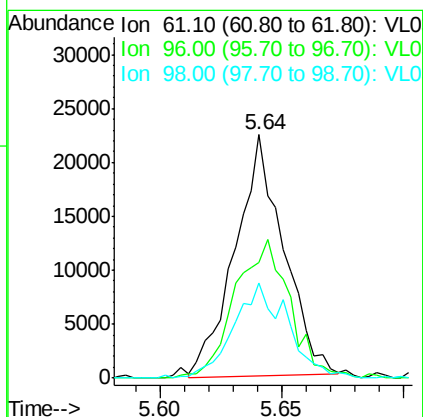
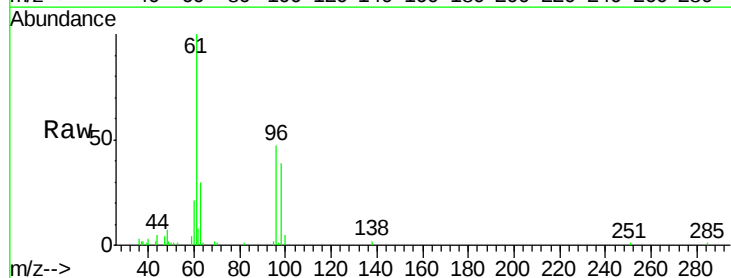
#30
Cyclohexane
Concen: 0.101 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.01 min
Lab File: VL033203.D
Acq: 14 Feb 2019 18:19

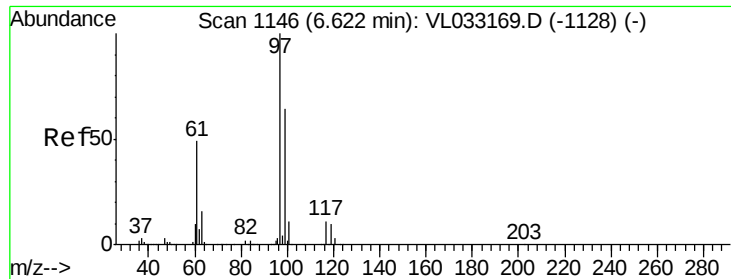
Tgt Ion: 84 Resp: 10432
Ion Ratio Lower Upper
84 100
56 0.0 109.5 164.3#
41 127.8 66.6 100.0#



#31
cis-1,2-Dichloroethene
Concen: 0.276 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033203.D
Acq: 14 Feb 2019 18:19

Tgt Ion: 61 Resp: 30812
Ion Ratio Lower Upper
61 100
96 46.4 51.2 76.8#
98 39.1 32.8 49.2





#32

1,1,1-Trichloroethane

Concen: 29.128 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

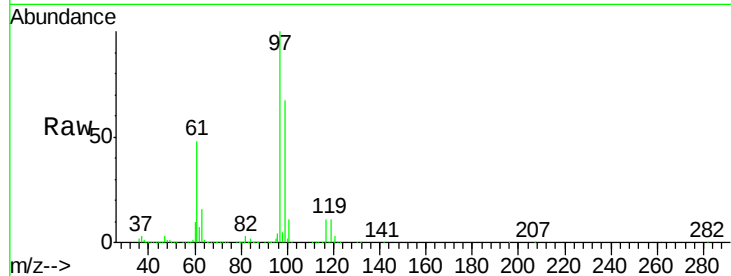
Tgt Ion: 97 Resp: 5482456

Ion Ratio Lower Upper

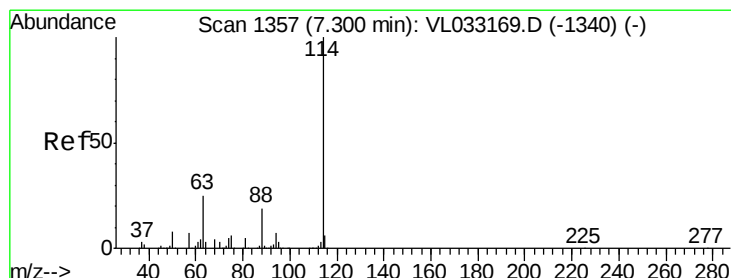
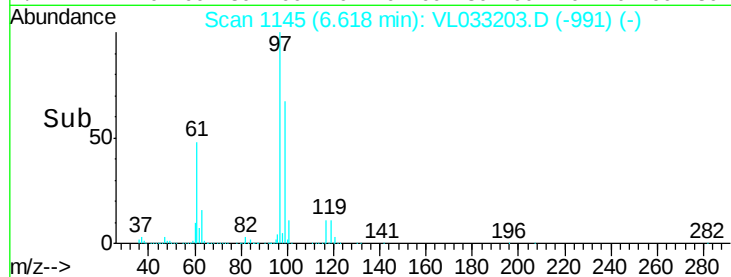
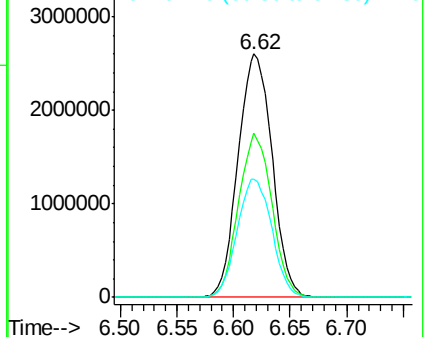
97 100

99 65.8 51.4 77.2

61 49.3 38.9 58.3



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

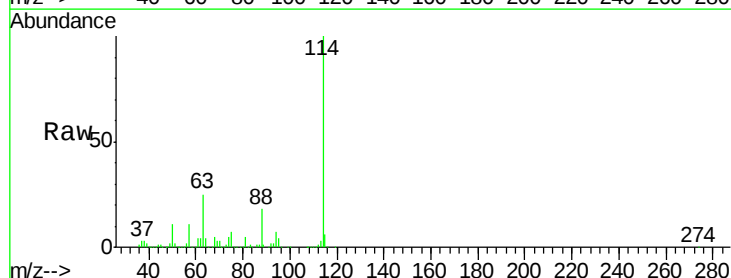
Tgt Ion: 114 Resp: 2121668

Ion Ratio Lower Upper

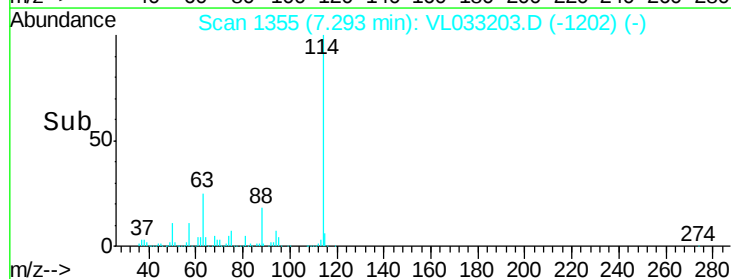
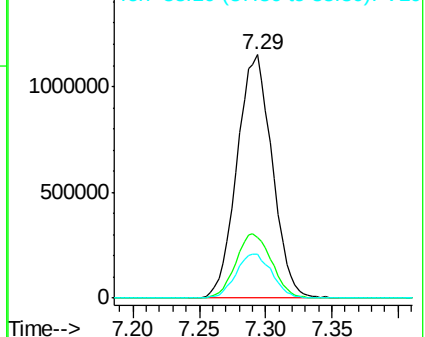
114 100

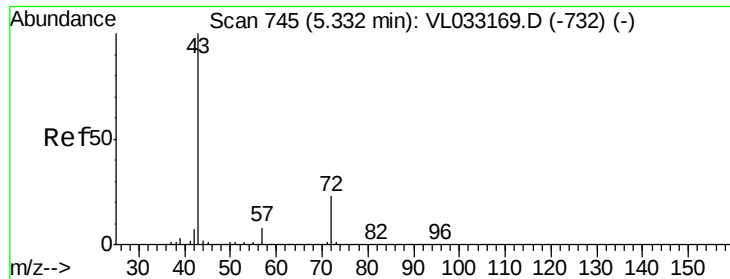
63 27.1 20.8 31.2

88 18.7 14.6 22.0



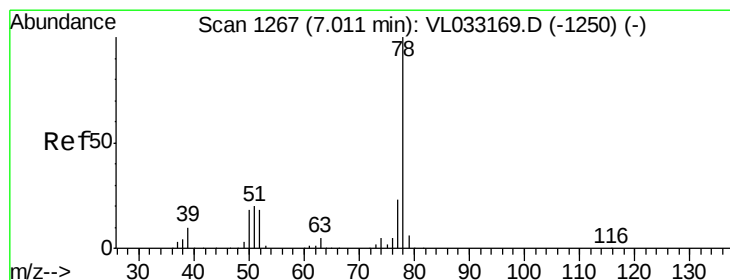
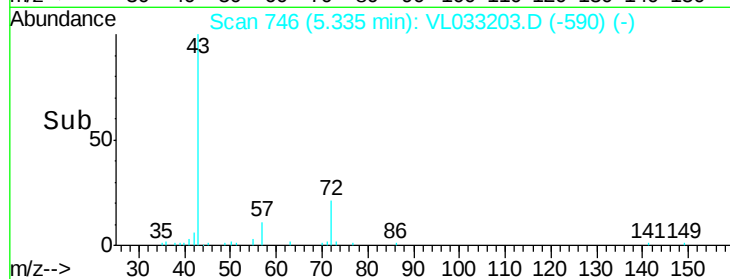
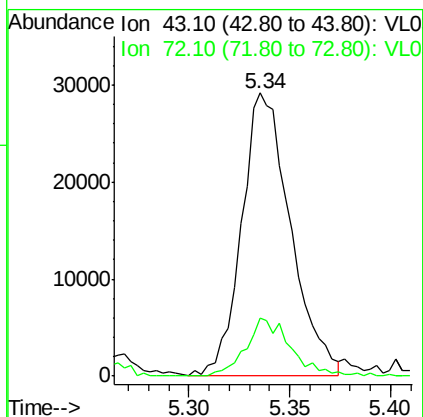
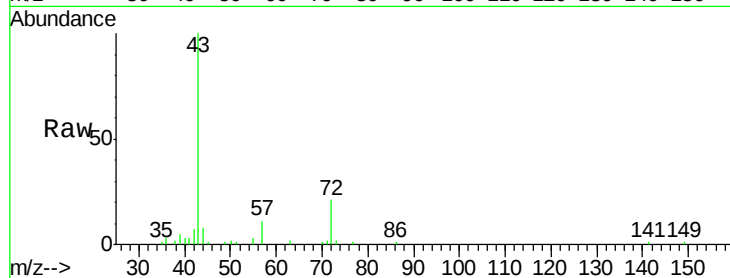
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





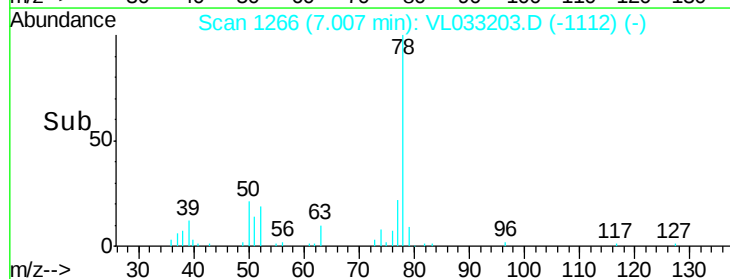
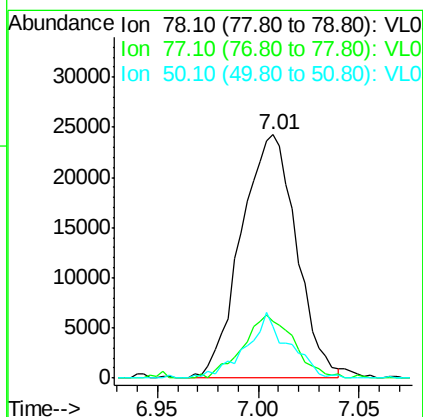
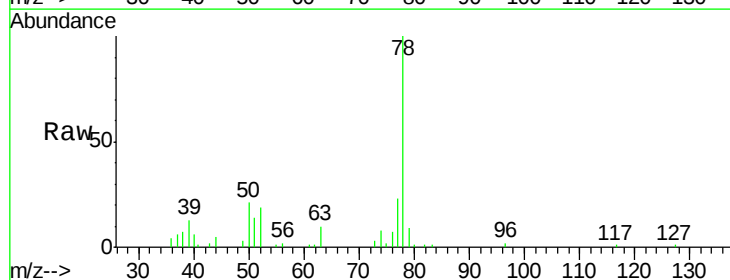
#34
2-Butanone
Concen: 0.368 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.00 min
Lab File: VL033203.D
Acq: 14 Feb 2019 18:19

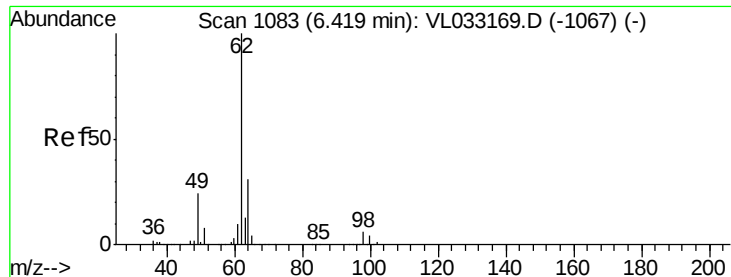
Tgt Ion: 43 Resp: 49528
Ion Ratio Lower Upper
43 100
72 18.7 17.8 26.6



#36
Benzene
Concen: 0.216 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. -0.00 min
Lab File: VL033203.D
Acq: 14 Feb 2019 18:19

Tgt Ion: 78 Resp: 46404
Ion Ratio Lower Upper
78 100
77 23.6 18.0 27.0
50 21.3 14.2 21.2#





#37

1,2-Dichloroethane

Concen: 0.044 ppbv

RT: 6.41 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VL033203.D

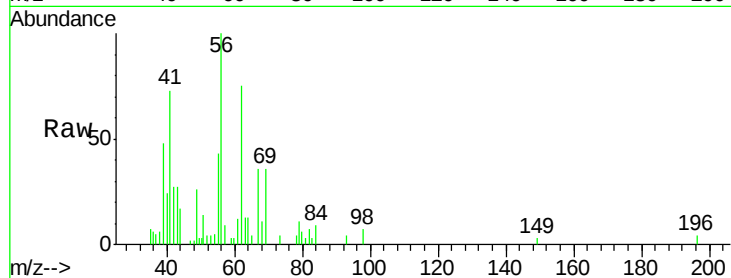
Acq: 14 Feb 2019 18:19

Tgt Ion: 62 Resp: 5266

Ion Ratio Lower Upper

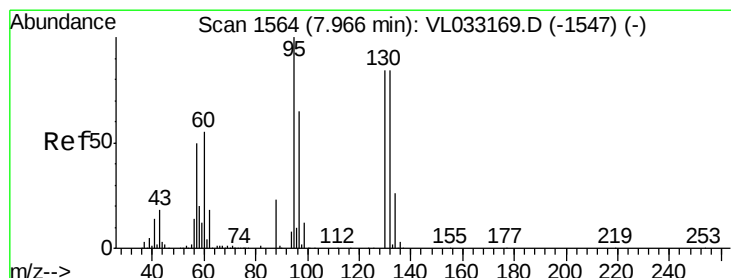
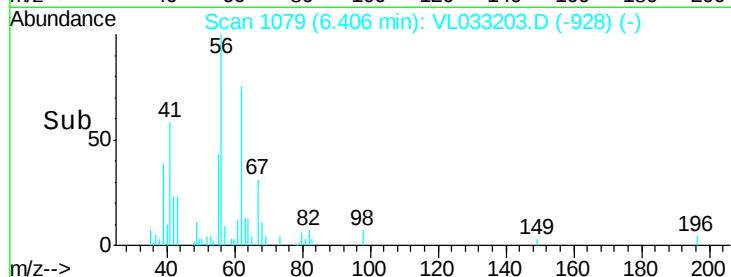
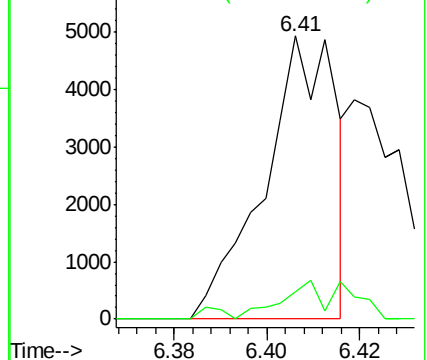
62 100

98 0.0 4.7 7.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.965 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

Tgt Ion: 130 Resp: 88875

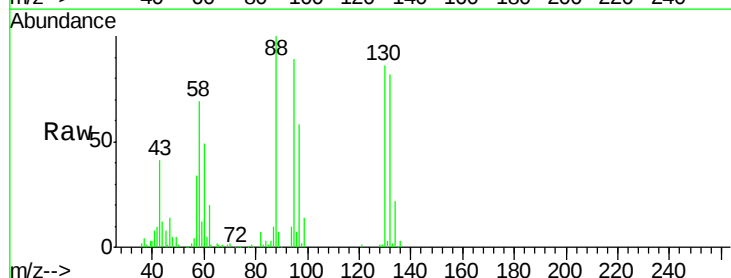
Ion Ratio Lower Upper

130 100

95 102.7 95.5 143.3

132 95.9 80.0 120.0

97 68.5 62.2 93.2

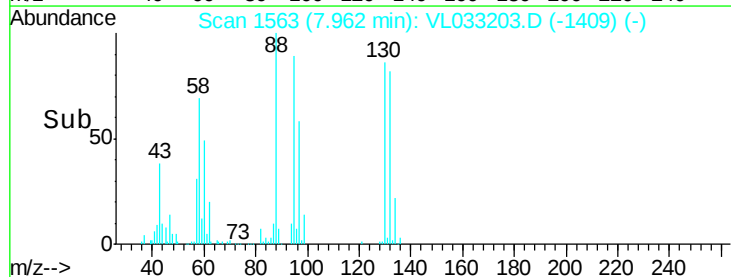
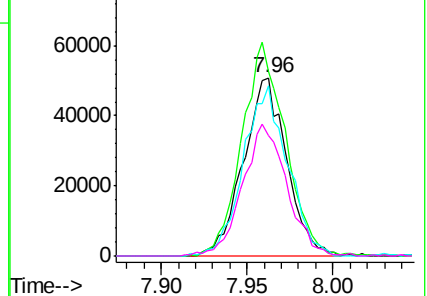


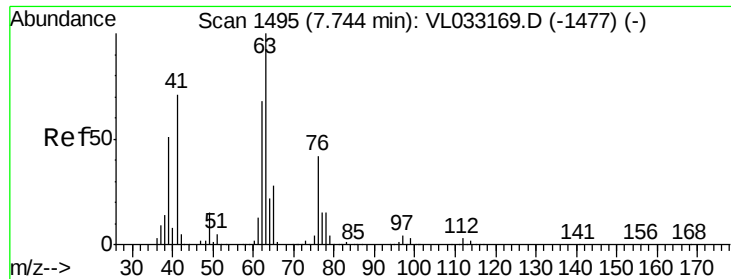
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 6.751 ppbv

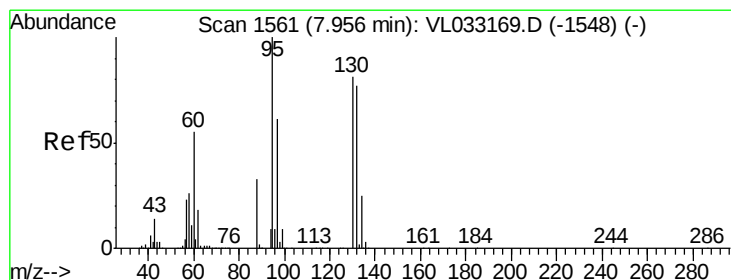
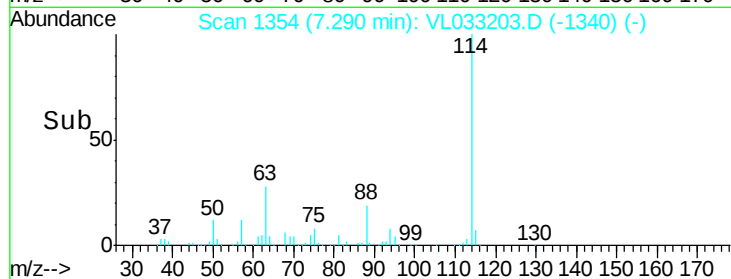
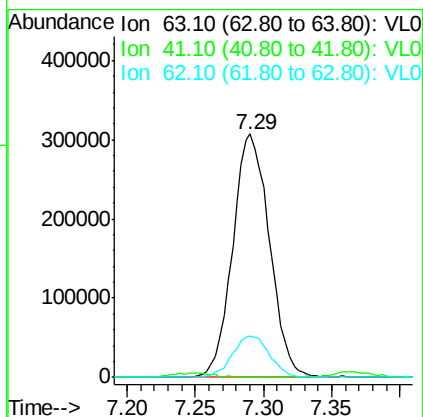
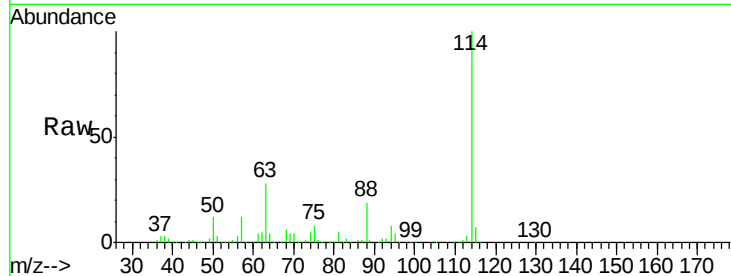
RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

Tgt Ion:	63	Resp:	573270
Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.4	84.6#
62	16.9	54.2	81.4#



#40

1,4-Dioxane

Concen: 4.275 ppbv

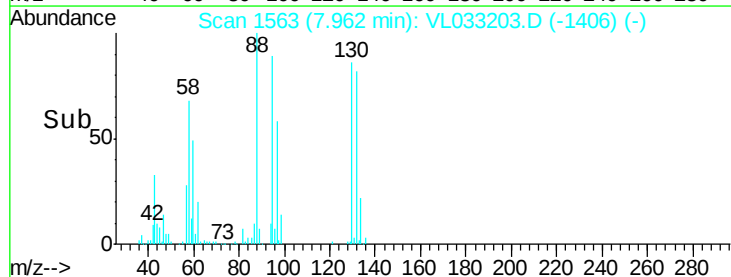
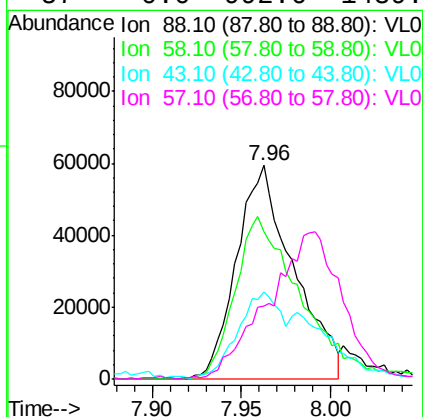
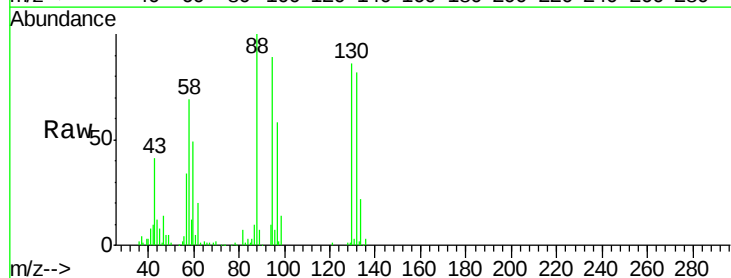
RT: 7.96 min Scan# 1563

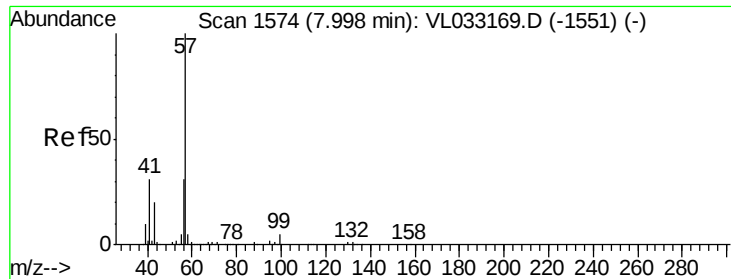
Delta R.T. 0.01 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

Tgt Ion:	88	Resp:	131946
Ion	Ratio	Lower	Upper
88	100		
58	89.5	106.6	160.0#
43	57.4	220.2	330.2#
57	0.0	992.6	1489.0#





#44

2,2,4-Trimethylpentane

Concen: 0.236 ppbv

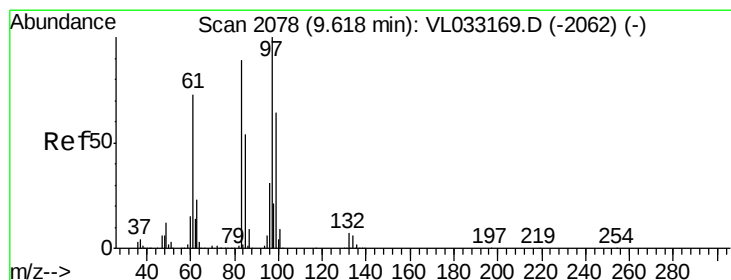
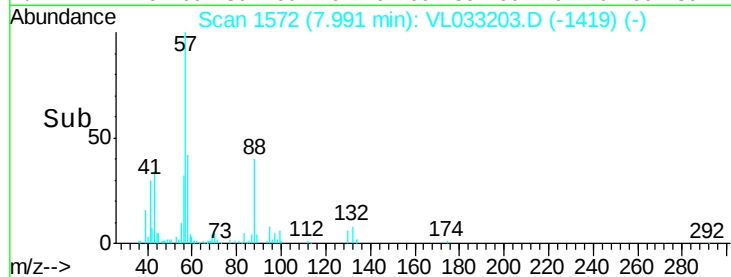
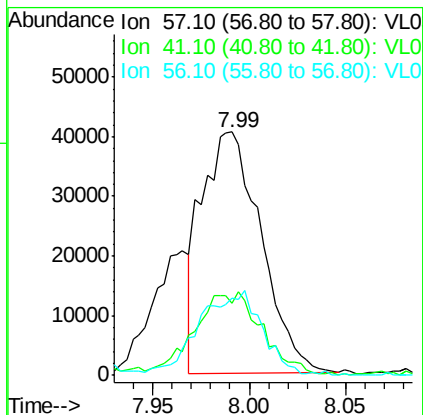
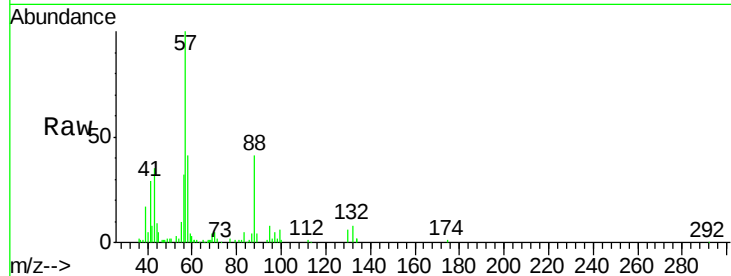
RT: 7.99 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

Tgt Ion:	57	Resp:	86072
Ion	Ratio	Lower	Upper
57	100		
41	39.4	25.1	37.7#
56	38.1	24.5	36.7#



#47

1,1,2-Trichloroethane

Concen: 0.051 ppbv

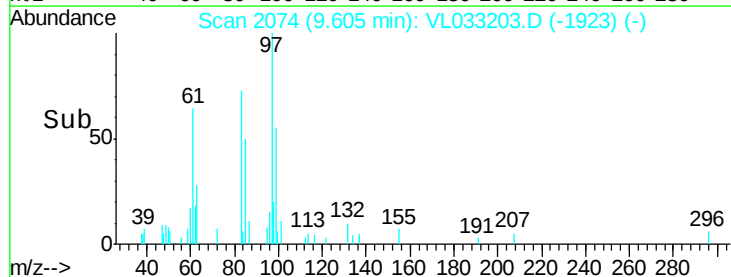
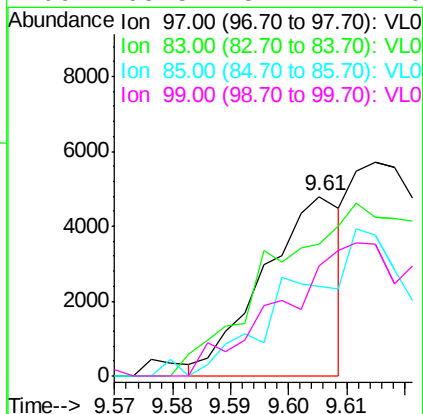
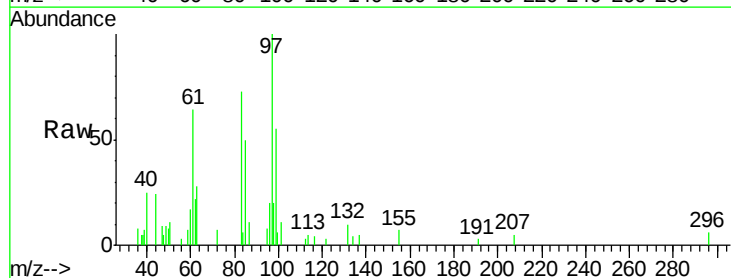
RT: 9.61 min Scan# 2074

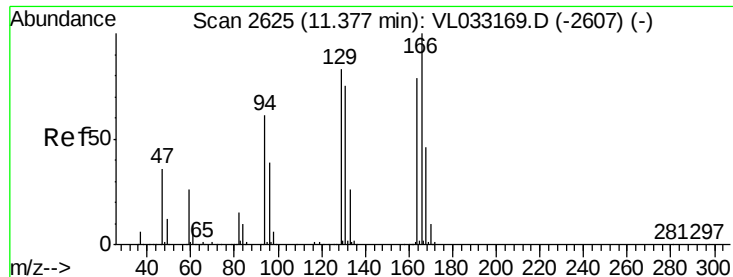
Delta R.T. -0.01 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

Tgt Ion:	97	Resp:	4466
Ion	Ratio	Lower	Upper
97	100		
83	71.4	71.4	107.2#
85	53.8	43.5	65.3
99	65.5	51.4	77.0





#52

Tetrachloroethene

Concen: 0.899 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. -0.00 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

Tgt Ion: 164 Resp: 74285

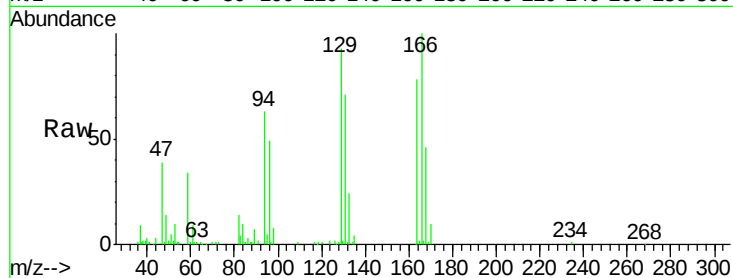
Ion Ratio Lower Upper

164 100

166 126.8 100.9 151.3

129 122.2 83.9 125.9

131 90.0 76.2 114.2

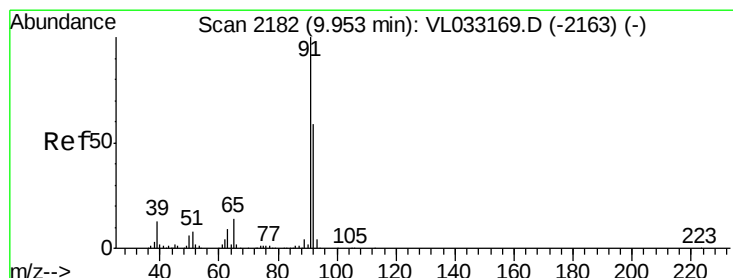
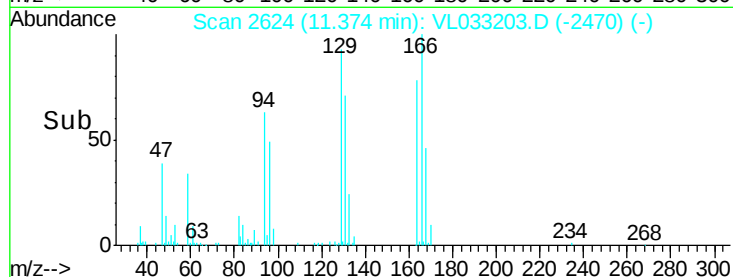
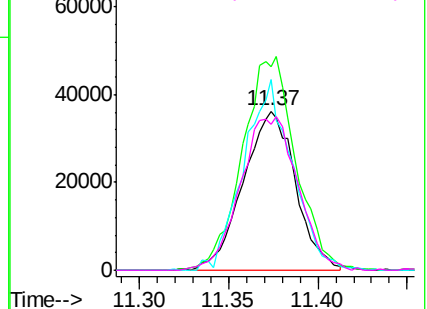


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.478 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033203.D

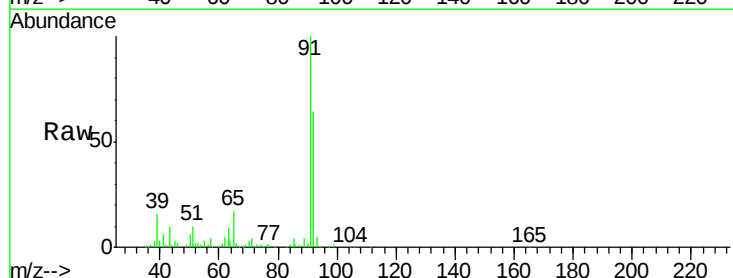
Acq: 14 Feb 2019 18:19

Tgt Ion: 91 Resp: 121779

Ion Ratio Lower Upper

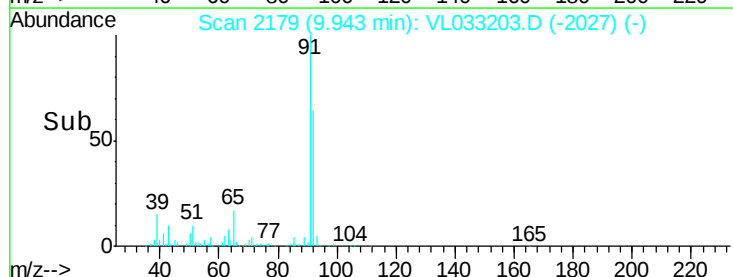
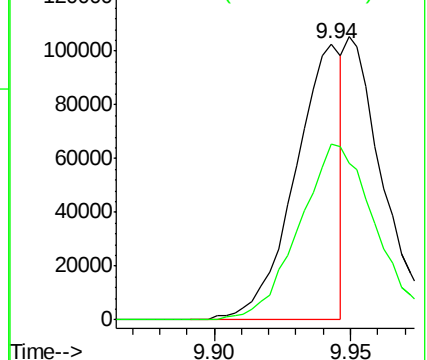
91 100

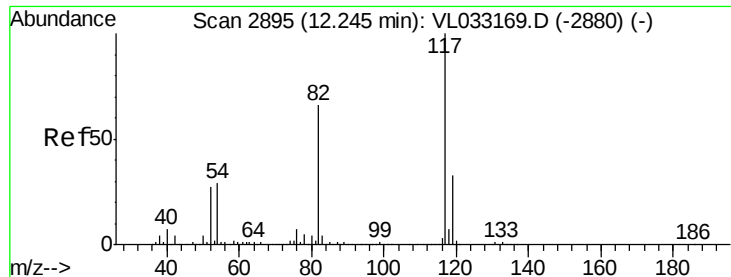
92 104.7 48.0 72.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

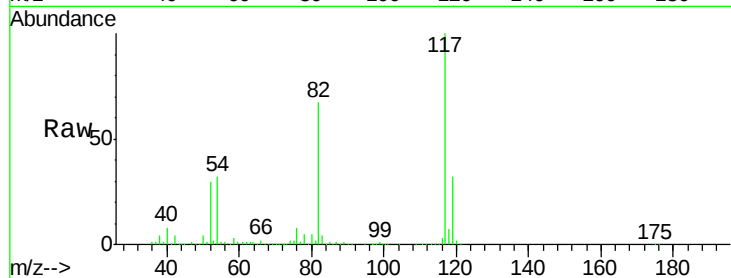
Tgt Ion: 117 Resp: 2217567

Ion Ratio Lower Upper

117 100

82 67.1 49.5 74.3

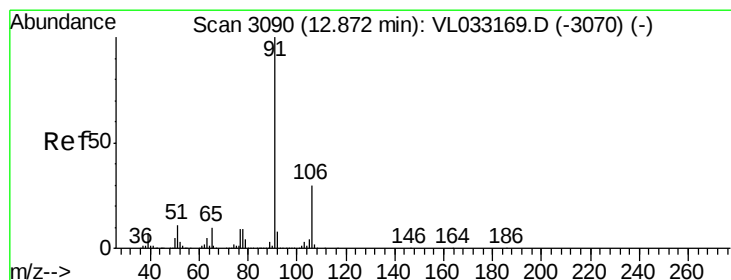
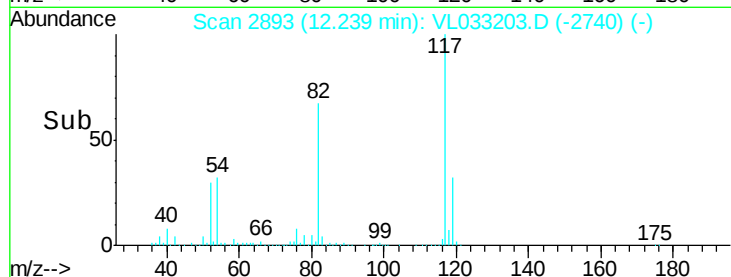
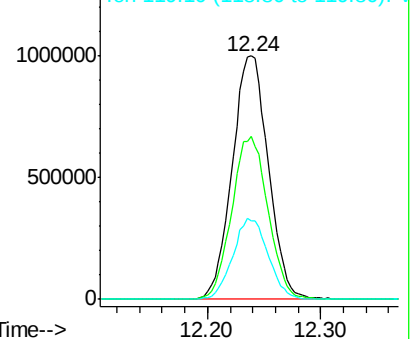
119 32.5 24.4 36.6



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: 0.439 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. -0.01 min

Lab File: VL033203.D

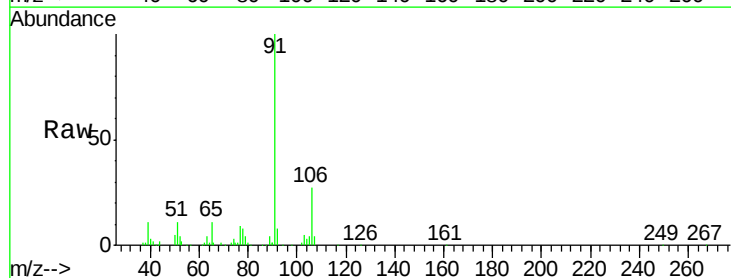
Acq: 14 Feb 2019 18:19

Tgt Ion: 91 Resp: 157465

Ion Ratio Lower Upper

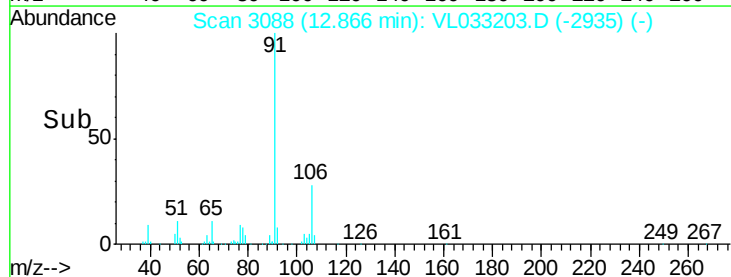
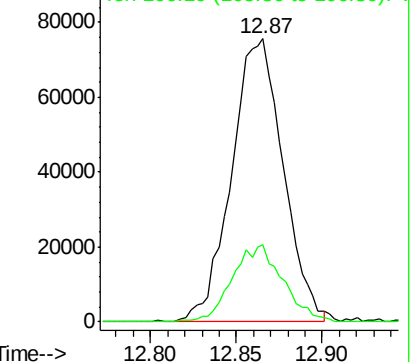
91 100

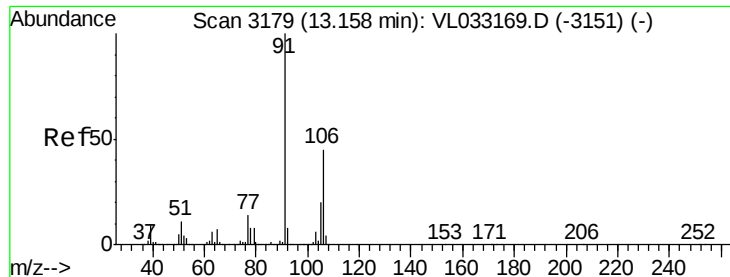
106 27.5 23.8 35.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

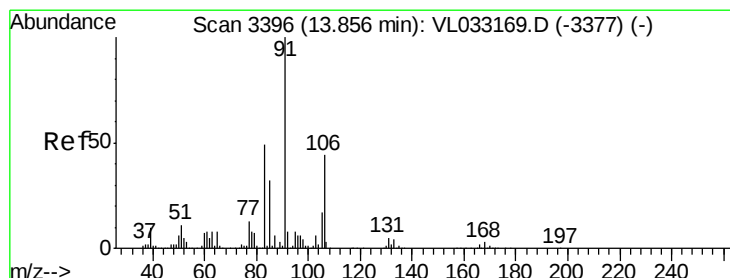
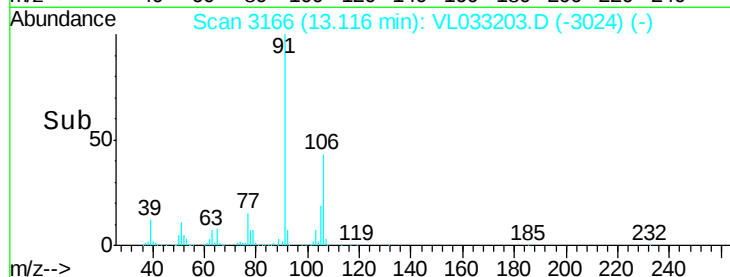
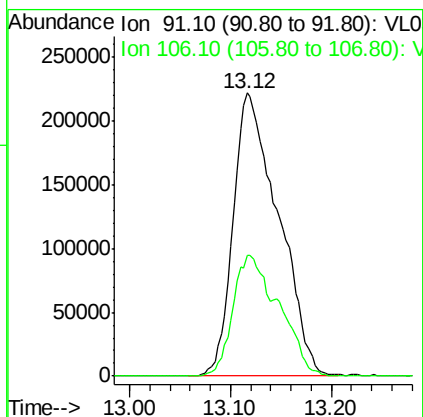
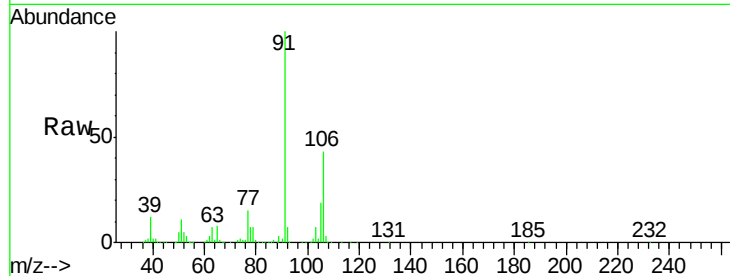
Ion 106.10 (105.80 to 106.80): V





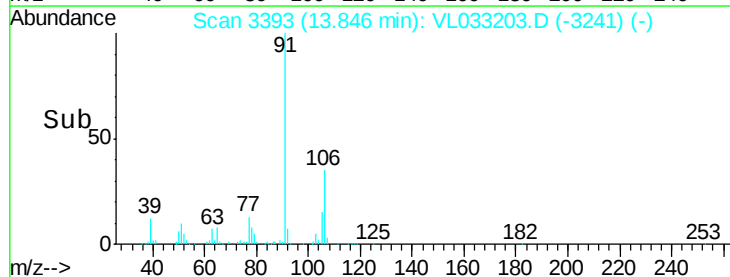
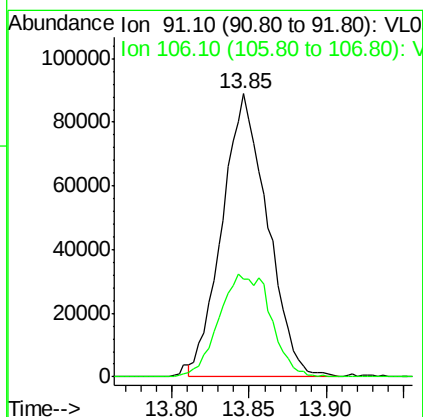
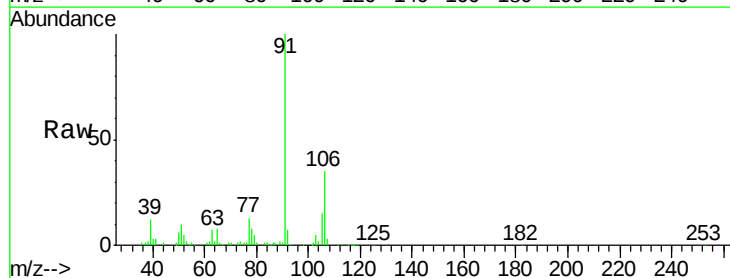
#59
m/p-Xylene
Concen: 2.303 ppbv
RT: 13.12 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL033203.D
Acq: 14 Feb 2019 18:19

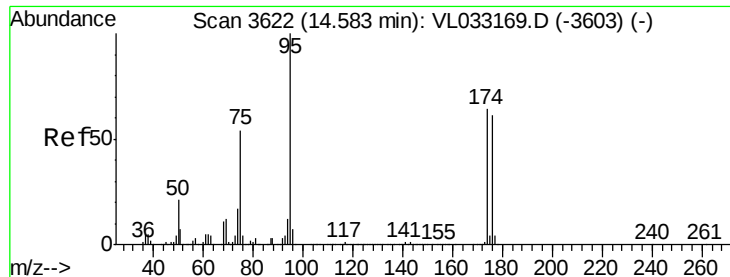
Tgt Ion: 91 Resp: 689686
Ion Ratio Lower Upper
91 100
106 43.5 0.0 0.0#



#60
o-Xylene
Concen: 0.621 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033203.D
Acq: 14 Feb 2019 18:19

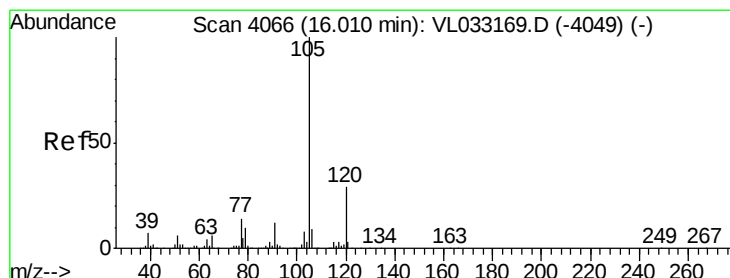
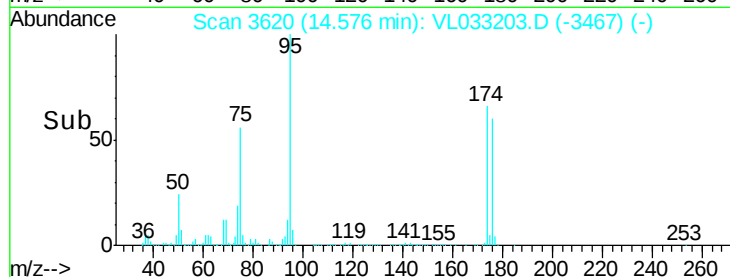
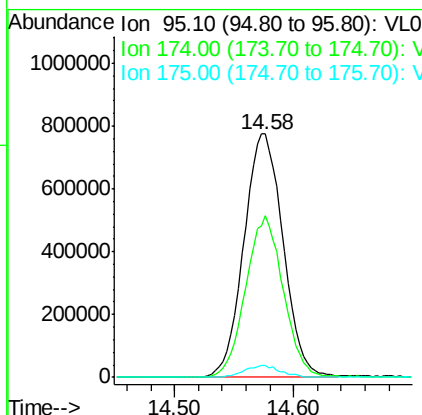
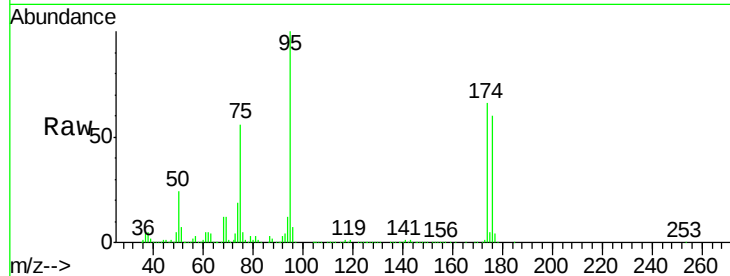
Tgt Ion: 91 Resp: 181009
Ion Ratio Lower Upper
91 100
106 41.7 21.8 65.3





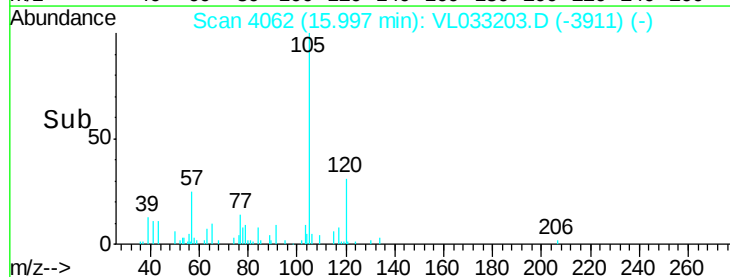
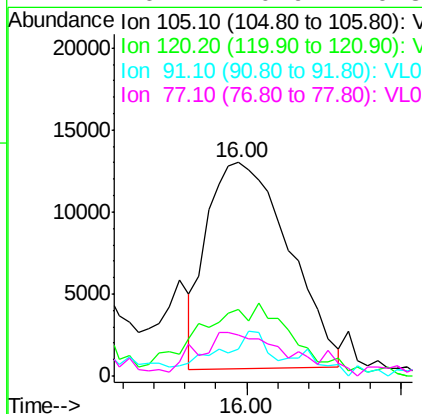
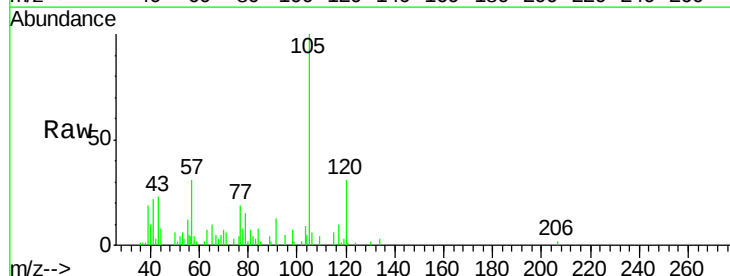
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.366 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033203.D
 Acq: 14 Feb 2019 18:19

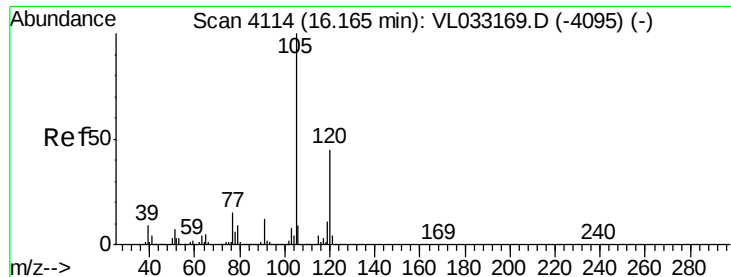
Tgt Ion: 95 Resp: 1770413
 Ion Ratio Lower Upper
 95 100
 174 64.0 51.2 76.8
 175 4.5 3.8 5.6



#72
 4-Ethyltoluene
 Concen: 0.069 ppbv
 RT: 16.00 min Scan# 4062
 Delta R.T. -0.01 min
 Lab File: VL033203.D
 Acq: 14 Feb 2019 18:19

Tgt Ion: 105 Resp: 23082
 Ion Ratio Lower Upper
 105 100
 120 42.4 23.1 34.7#
 91 21.2 9.8 14.6#
 77 26.1 10.9 16.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.080 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033203.D

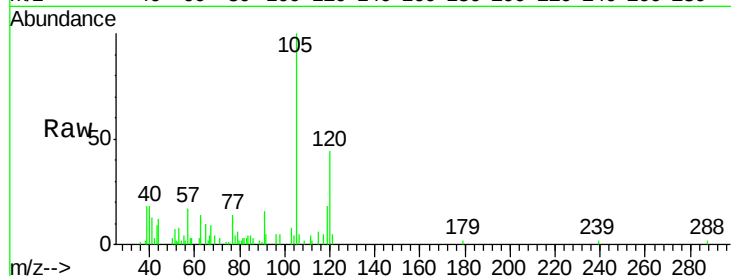
Acq: 14 Feb 2019 18:19

Tgt Ion:105 Resp: 25741

Ion Ratio Lower Upper

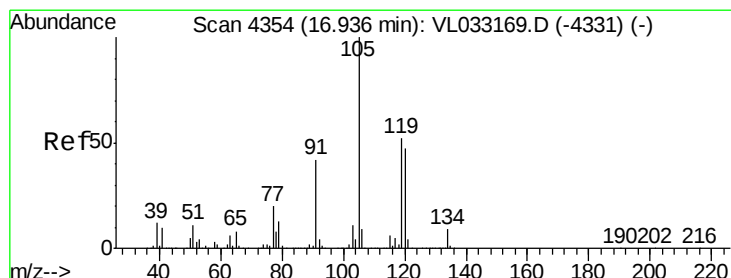
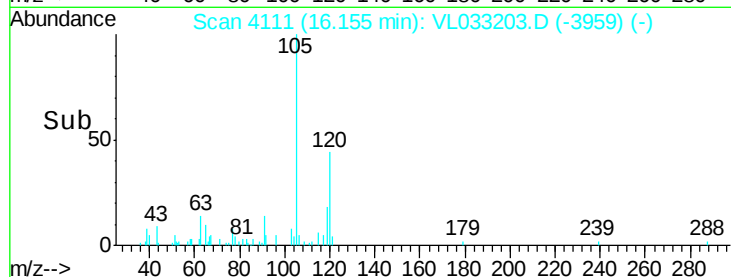
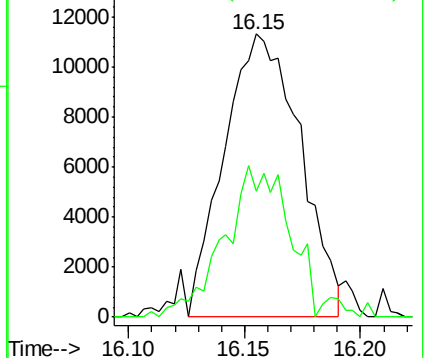
105 100

120 44.3 36.2 54.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.333 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.01 min

Lab File: VL033203.D

Acq: 14 Feb 2019 18:19

Tgt Ion:105 Resp: 110889

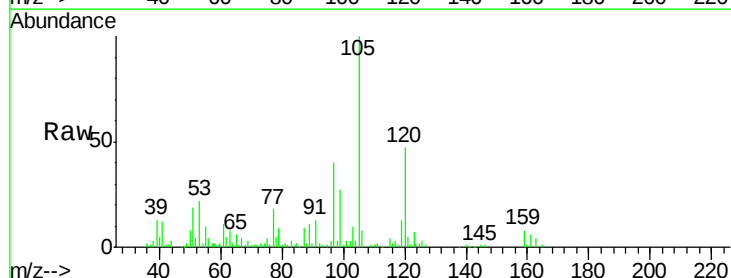
Ion Ratio Lower Upper

105 100

120 52.1 37.9 56.9

91 11.4 34.0 51.0#

77 16.8 15.7 23.5

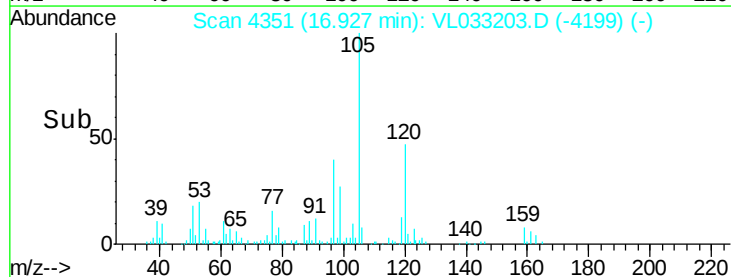
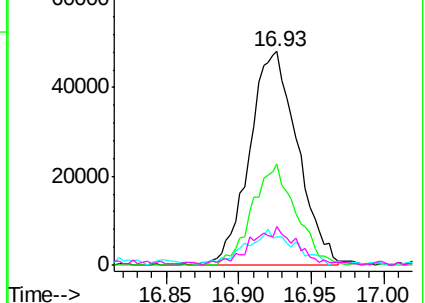


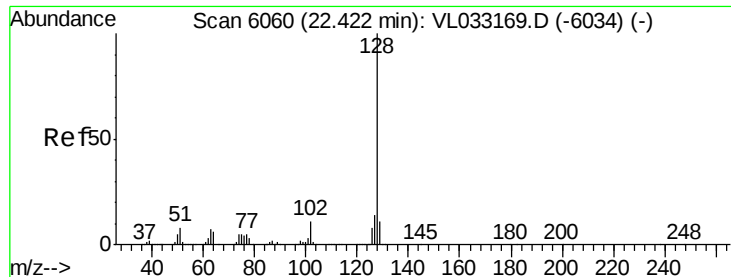
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

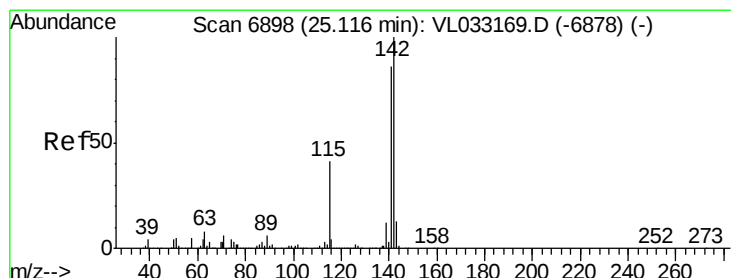
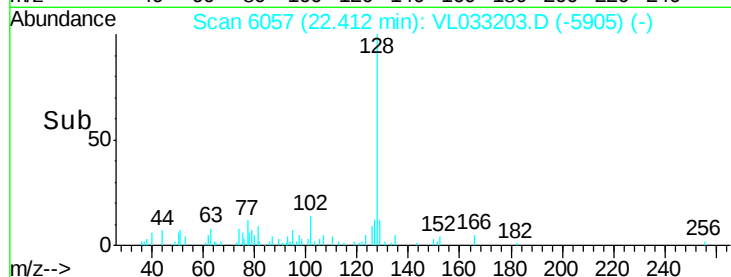
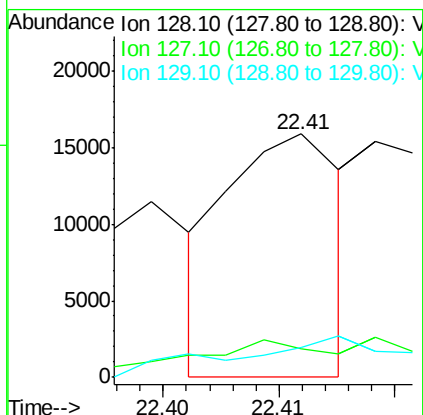
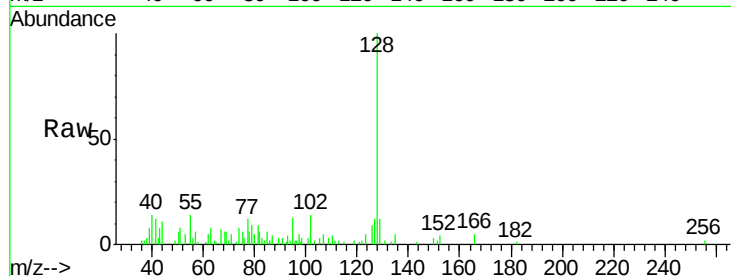
Ion 77.10 (76.80 to 77.80): VL0





#79
Naphthalene
Concen: 0.030 ppbv
RT: 22.41 min Scan# 6057
Delta R.T. -0.01 min
Lab File: VL033203.D
Acq: 14 Feb 2019 18:19

Tgt Ion:128 Resp: 10881
Ion Ratio Lower Upper
128 100
127 5.8 11.0 16.4#
129 6.1 8.6 12.8#



#80
Naphthalene, 2-methyl-
Concen: 0.053 ppbv
RT: 25.13 min Scan# 6901
Delta R.T. 0.01 min
Lab File: VL033203.D
Acq: 14 Feb 2019 18:19

Tgt Ion:142 Resp: 9524
Ion Ratio Lower Upper
142 100
141 86.9 67.7 101.5
115 53.1 32.7 49.1#

