

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036474.D
 Acq On : 25 Mar 2021 4:33
 Operator :
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 25 07:55:33 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 07:52:30 2021
 QLast Update : Thu Mar 25 07:52:30 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1613538	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3767499	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3301368	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2607878	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	35339	0.152	ppbv 99
3) Chlorodifluoromethane	2.99	51	38685	0.184	ppbv 100
4) Chloromethane	3.14	50	12482	0.134	ppbv 96
5) Vinyl Chloride	3.26	62	6708	0.076	ppbv 99
6) Bromomethane	3.47	94	3583	0.066	ppbv # 73
7) Chloroethane	3.55	64	1721	0.052	ppbv 99
8) Dichlorotetrafluoroethane	3.19	85	29562	0.131	ppbv 92
9) Propene	3.01	41	12106	0.141	ppbv # 78
10) Heptane	8.11	43	18764	0.089	ppbv 89
11) Trichlorofluoromethane	3.95	101	27179	0.115	ppbv # 73
12) 1,1,2-Trichlorotrifluoroet	4.49	101	21793	0.143	ppbv 98
13) Ethanol	3.61	45	403	0.033	ppbv # 34
14) Bromoethene	3.73	108	1631	0.026	ppbv # 1
15) Acetone	3.87	43	26814	0.149	ppbv # 49
16) 1,3-Butadiene	3.33	39	8667	0.093	ppbv 86
18) 1,1-Dichloroethene	4.28	96	1609	0.024	ppbv # 65
19) Isopropyl Alcohol	3.99	45	3068	0.031	ppbv # 91
20) Methylene Chloride	4.34	84	6931	0.107	ppbv # 72
21) Allvl Chloride	4.41	41	3664	0.034	ppbv # 1
22) trans-1,2-Dichloroethene	4.88	96	3819	0.062	ppbv # 90
23) Vinyl Acetate	5.08	43	11404	0.052	ppbv # 87
24) 1,1-Dichloroethane	5.01	63	7620	0.045	ppbv # 79
25) Ethyl Acetate	5.69	43	33961	0.094	ppbv # 91
26) Hexane	5.68	57	17451	0.115	ppbv # 86
27) Carbon Disulfide	4.56	76	12374	0.083	ppbv # 39
29) Chloroform	5.74	83	30724	0.124	ppbv 100
30) Cyclohexane	7.13	84	5750	0.046	ppbv # 1
31) cis-1,2-Dichloroethene	5.55	61	10158	0.069	ppbv # 88
32) 1,1,1-Trichloroethane	6.51	97	24215	0.098	ppbv # 74
34) 2-Butanone	5.27	43	19188	0.087	ppbv # 75
35) Carbon Tetrachloride	7.02	117	16518	0.067	ppbv # 71
36) Benzene	6.90	78	10878	0.036	ppbv 96
37) 1,2-Dichloroethane	6.31	62	14672	0.078	ppbv # 71
39) 1,2-Dichloropropane	7.18	63	1023647	7.990	ppbv # 24
42) Bromodichloromethane	7.79	83	16882	0.067	ppbv # 87
43) Methyl Methacrylate	8.02	69	3095	0.026	ppbv # 1
44) 2,2,4-Trimethylpentane	7.87	57	28992	0.053	ppbv # 39
47) 1,1,2-Trichloroethane	9.49	97	4170	0.033	ppbv 93
48) Dibromochloromethane	10.31	129	4794	0.025	ppbv # 1
49) Bromoform	13.05	173	11917	0.076	ppbv # 79
52) Tetrachloroethene	11.22	164	2778	0.025	ppbv # 1

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

53) Toluene	9.81	91	16257	0.050	ppbv #	20
56) 1,1,1,2-Tetrachloroethane	12.13	131	12726	0.086	ppbv #	48
57) Chlorobenzene	12.15	112	17434	0.071	ppbv	95
58) Ethyl Benzene	12.72	91	31675	0.075	ppbv	99
59) m/p-Xylene	13.00	91	9818	0.026	ppbv #	32
60) o-Xylene	13.69	91	9652	0.027	ppbv #	31
62) Isopropylbenzene	14.67	105	37779	0.071	ppbv #	84
63) 1,1,2,2-Tetrachloroethane	13.68	83	18252	0.066	ppbv #	21
65) tert-Butylbenzene	16.75	119	15902	0.035	ppbv #	17
71) 2-Chlorotoluene	15.45	91	20719	0.052	ppbv #	65
72) 4-Ethyltoluene	15.84	105	9546	0.025	ppbv #	9
74) 1,2,4-Trimethylbenzene	16.77	105	8507	0.021	ppbv #	53
75) 1,3-Dichlorobenzene	17.00	146	9657	0.043	ppbv #	1
76) 1,4-Dichlorobenzene	17.14	146	7149	0.032	ppbv #	22
78) Hexachloro-1,3-Butadiene	23.37	225	4690	0.027	ppbv #	18

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

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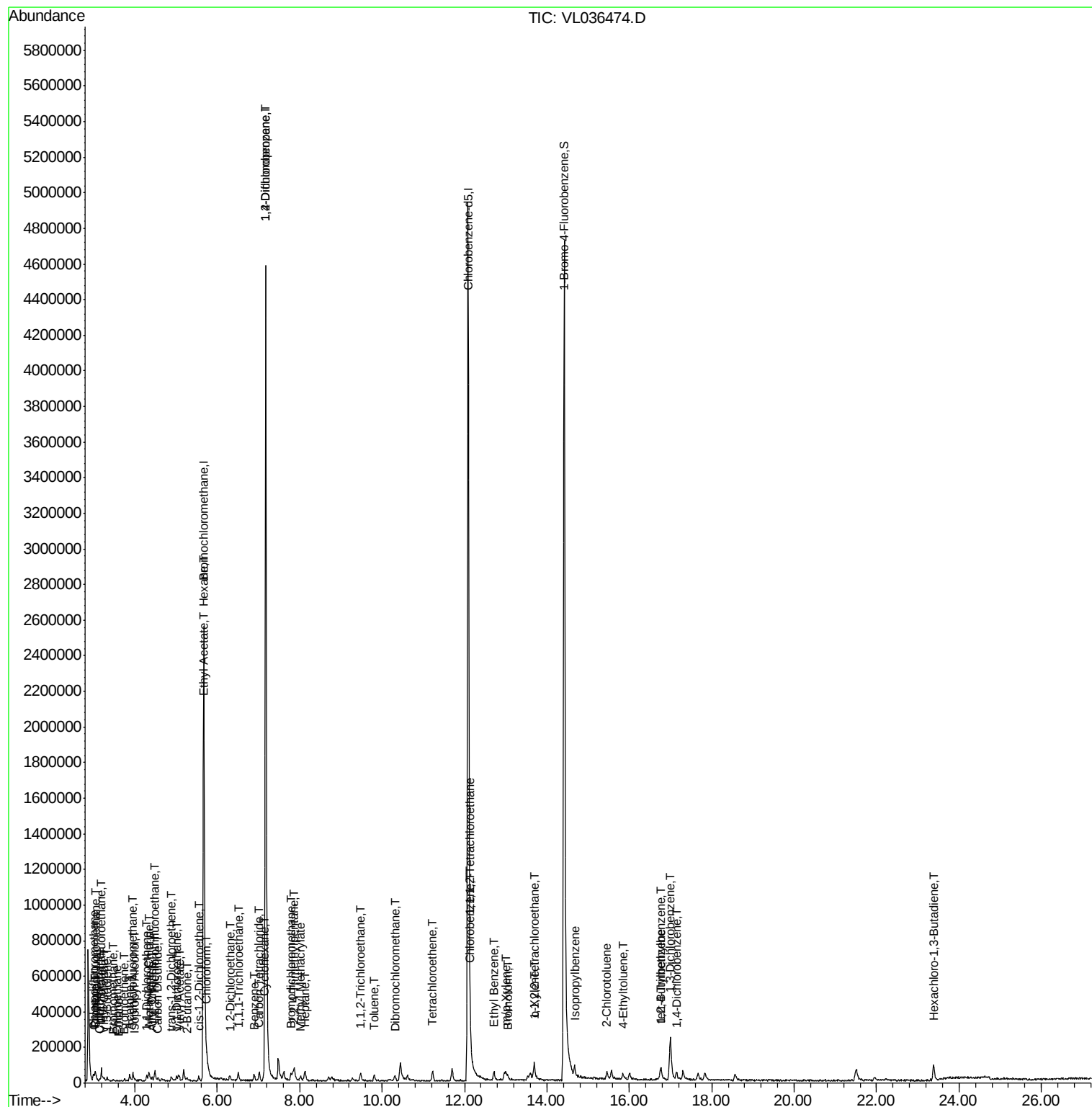
Quant Time: Mar 25 07:55:33 2021

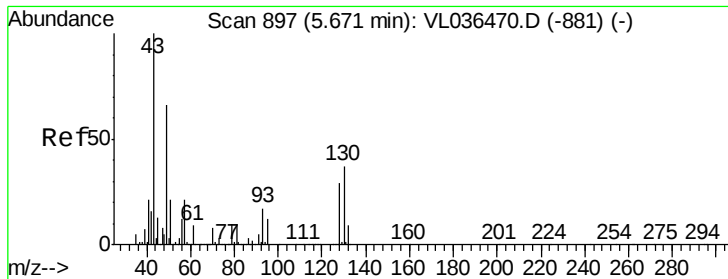
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M

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QLast Update : Thu Mar 25 07:52:30 2021

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 4:33

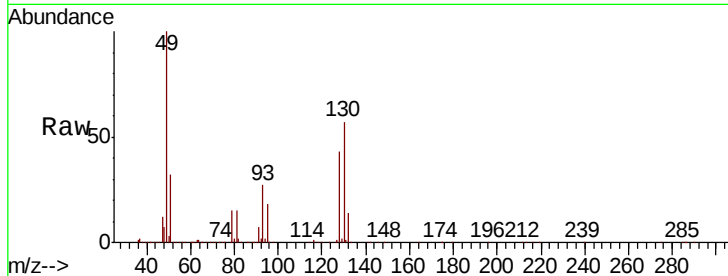
Tot Ion: 49 Resp: 1613538

Ion Ratio Lower Upper

49 100

128 44.8 23.6 70.8

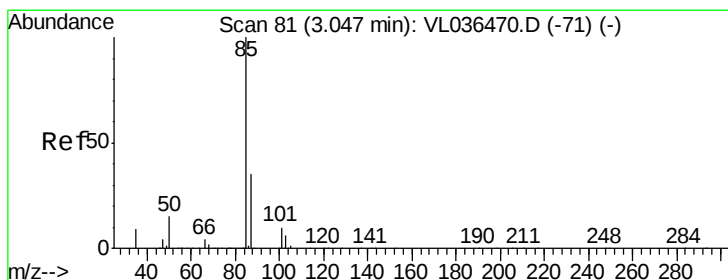
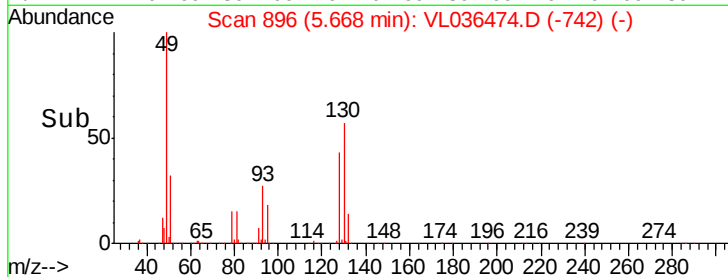
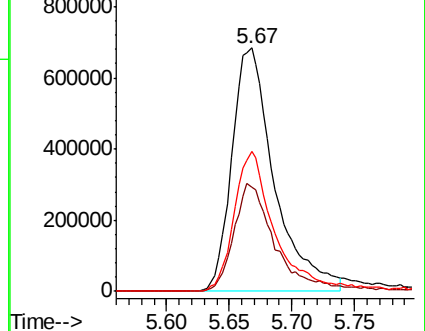
130 56.9 29.3 87.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.152 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036474.D

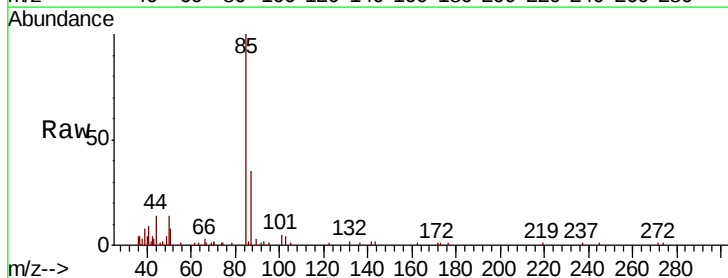
Acq: 25 Mar 2021 4:33

Tgt Ion: 85 Resp: 35339

Ion Ratio Lower Upper

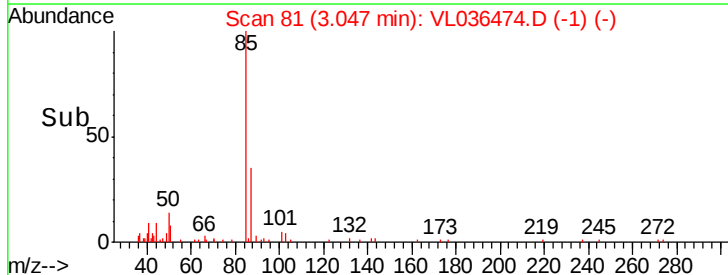
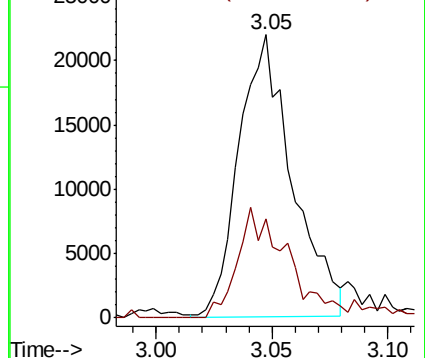
85 100

87 35.5 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.184 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

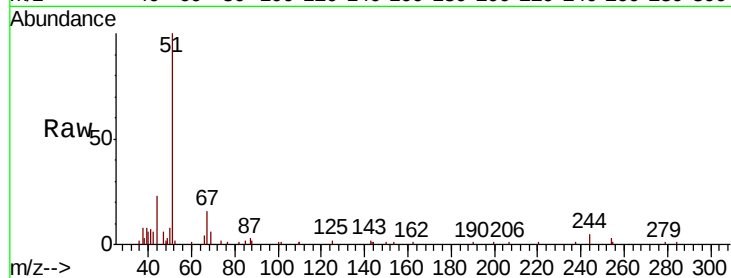
Acq: 25 Mar 2021 4:33

Tot Ion: 51 Resp: 38685

Ion Ratio Lower Upper

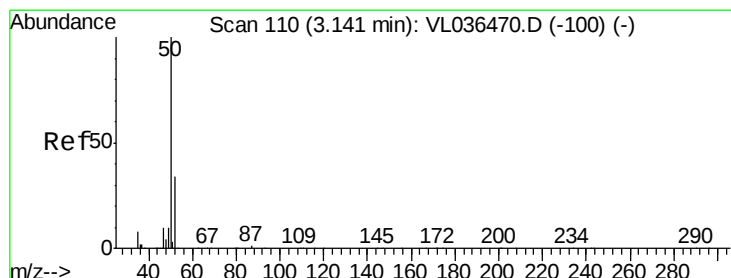
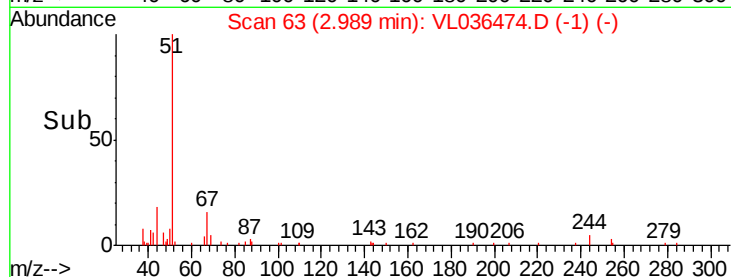
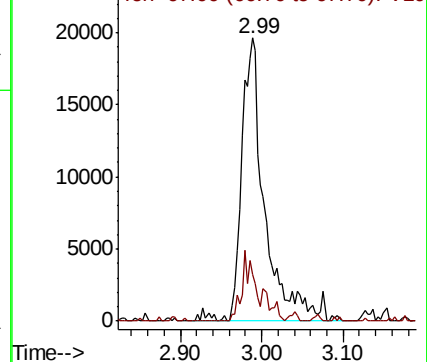
51 100

67 18.4 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.134 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL036474.D

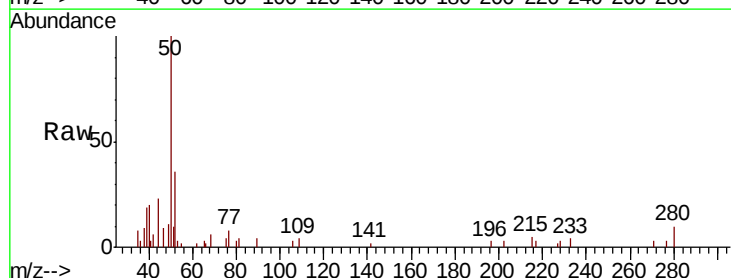
Acq: 25 Mar 2021 4:33

Tgt Ion: 50 Resp: 12482

Ion Ratio Lower Upper

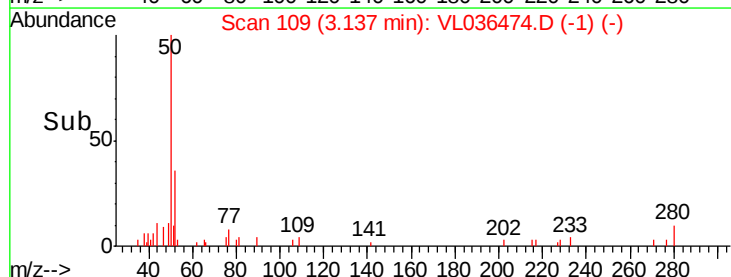
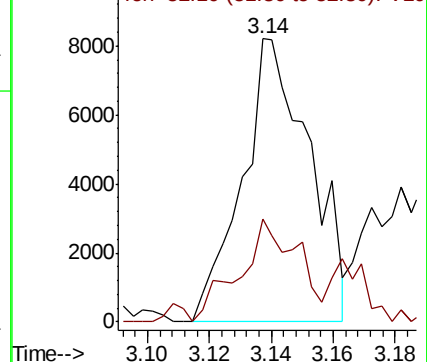
50 100

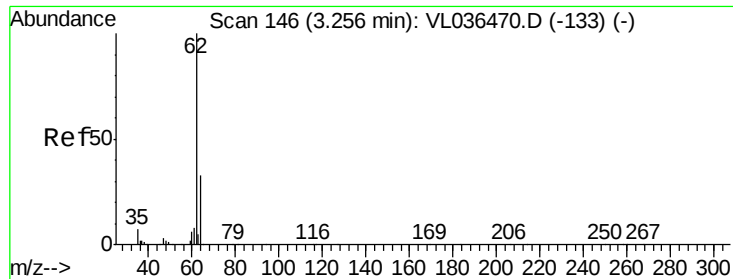
52 36.3 27.0 40.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.076 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

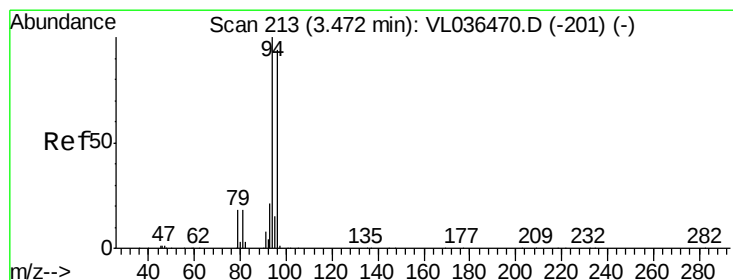
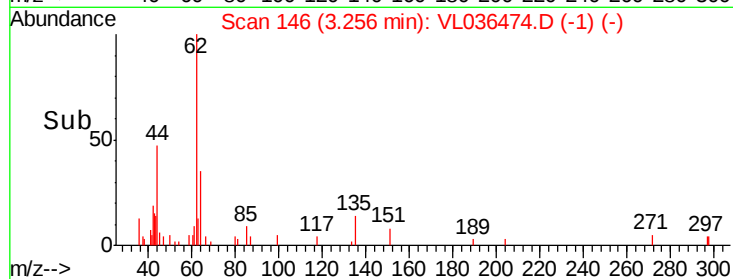
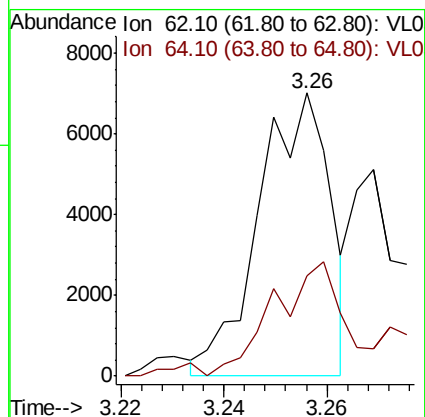
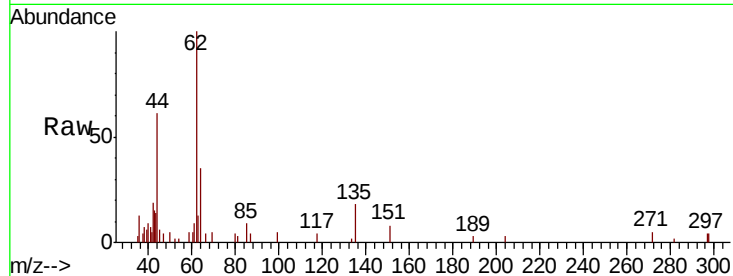
Acq: 25 Mar 2021 4:33

Tot Ion: 62 Resp: 6708

Ion Ratio Lower Upper

62 100

64 32.5 26.4 39.6



#6

Bromomethane

Concen: 0.066 ppbv

RT: 3.47 min Scan# 213

Delta R.T. -0.00 min

Lab File: VL036474.D

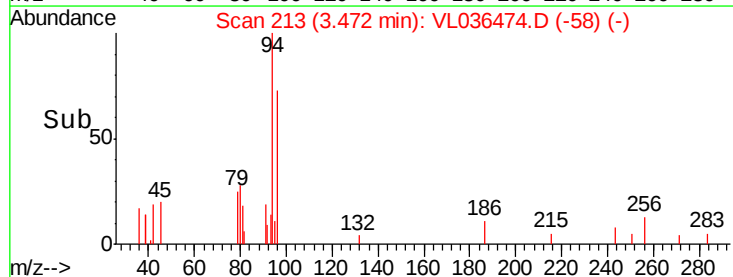
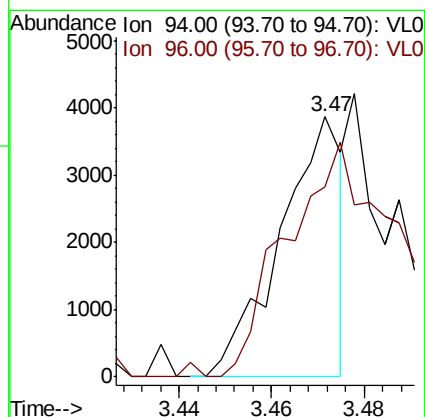
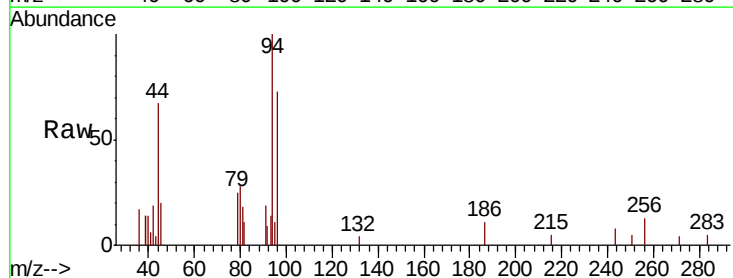
Acq: 25 Mar 2021 4:33

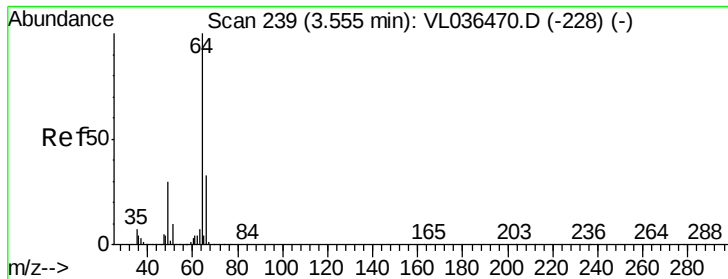
Tgt Ion: 94 Resp: 3583

Ion Ratio Lower Upper

94 100

96 67.7 74.9 112.3#





#7

Chloroethane

Concen: 0.052 ppbv

RT: 3.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

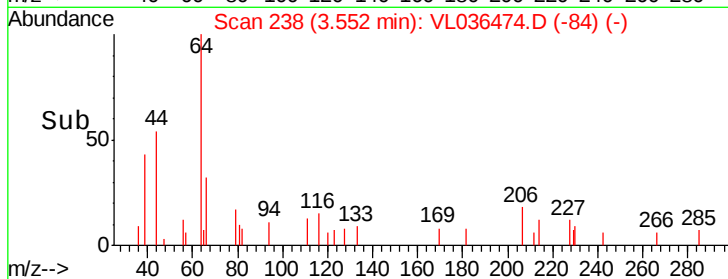
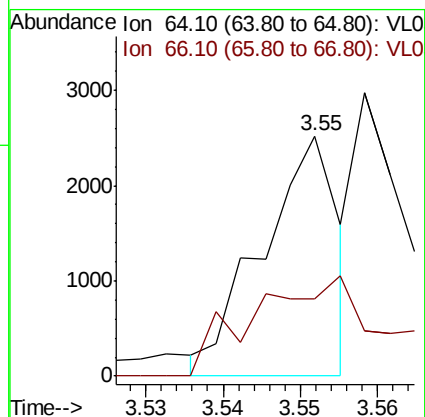
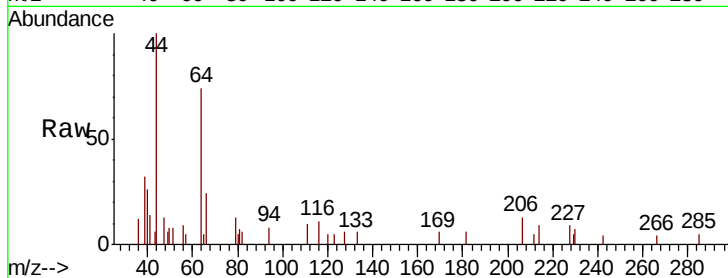
Acq: 25 Mar 2021 4:33

Tot Ion: 64 Resp: 1721

Ion Ratio Lower Upper

64 100

66 32.3 26.2 39.2



#8

Dichlorotetrafluoroethane

Concen: 0.131 ppbv

RT: 3.19 min Scan# 124

Delta R.T. -0.00 min

Lab File: VL036474.D

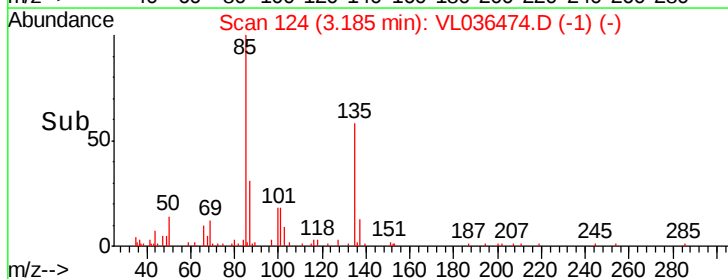
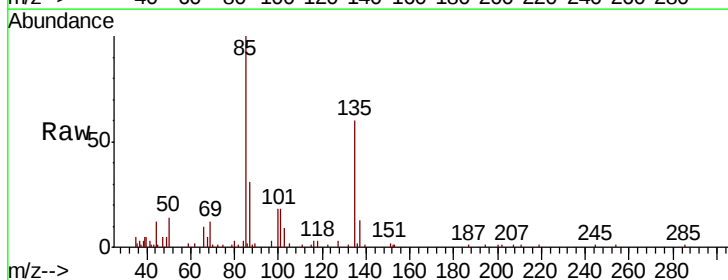
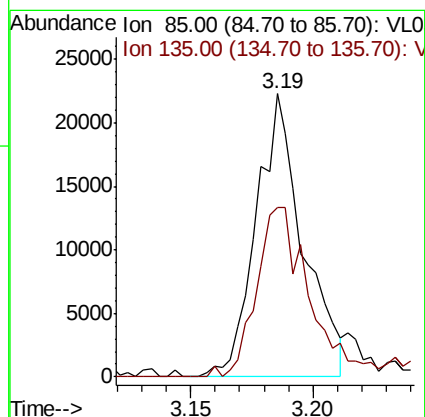
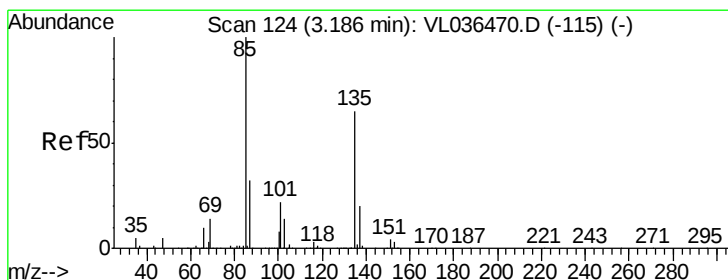
Acq: 25 Mar 2021 4:33

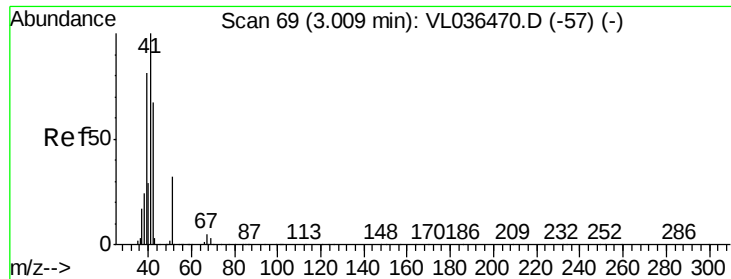
Tgt Ion: 85 Resp: 29562

Ion Ratio Lower Upper

85 100

135 74.4 54.3 81.5





#9

Propene

Concen: 0.141 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

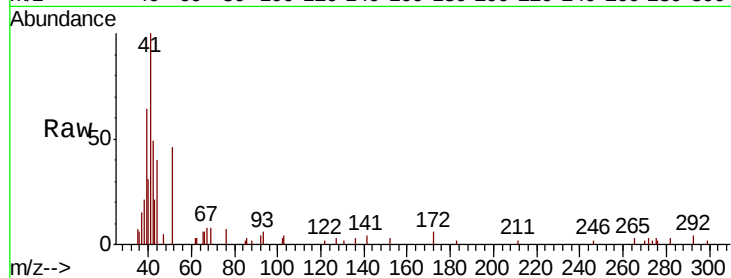
Acq: 25 Mar 2021 4:33

Tot Ion: 41 Resp: 12106

Ion Ratio Lower Upper

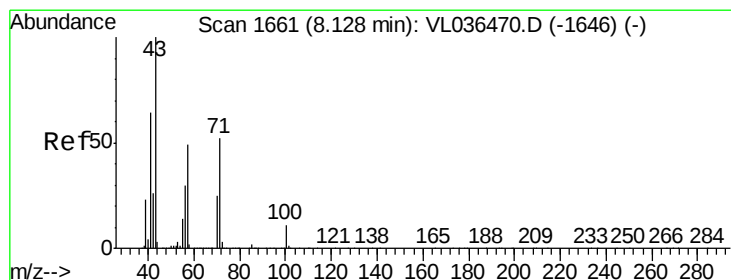
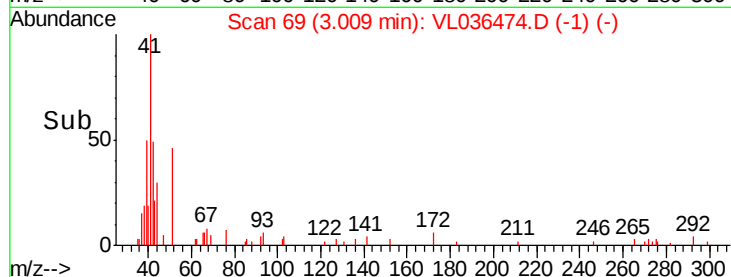
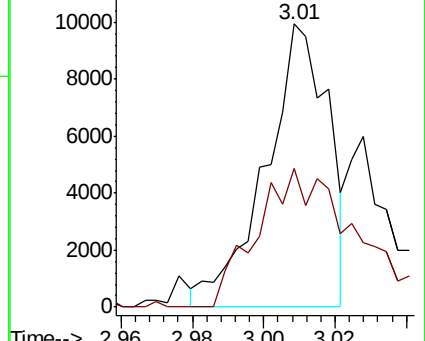
41 100

42 89.4 57.0 85.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.089 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.01 min

Lab File: VL036474.D

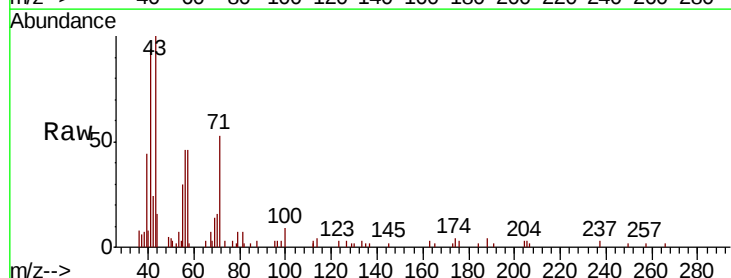
Acq: 25 Mar 2021 4:33

Tgt Ion: 43 Resp: 18764

Ion Ratio Lower Upper

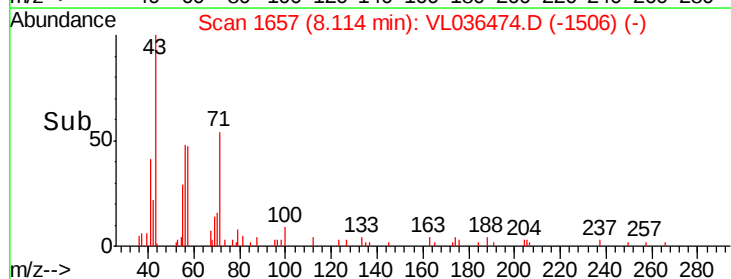
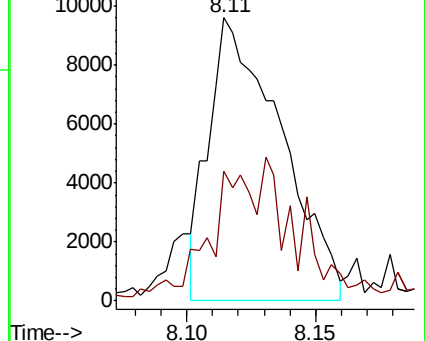
43 100

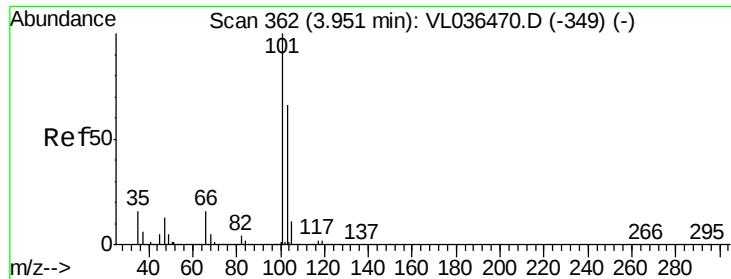
57 56.4 39.4 59.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

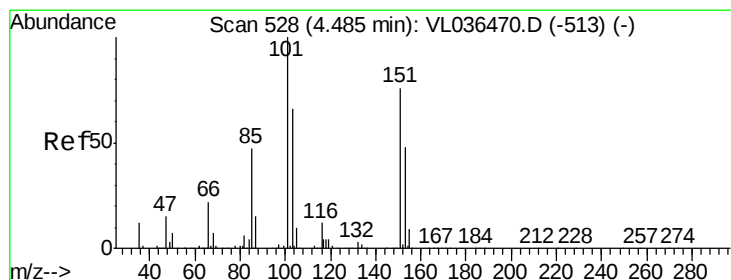
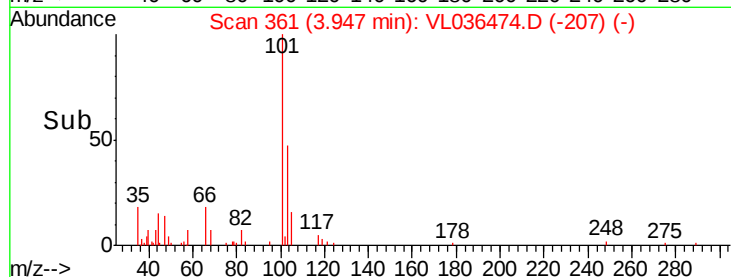
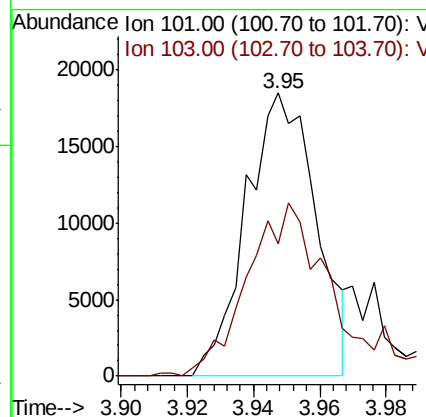
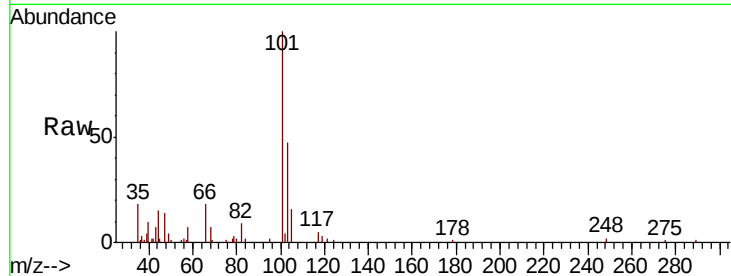
Ion 57.10 (56.80 to 57.80): VL0





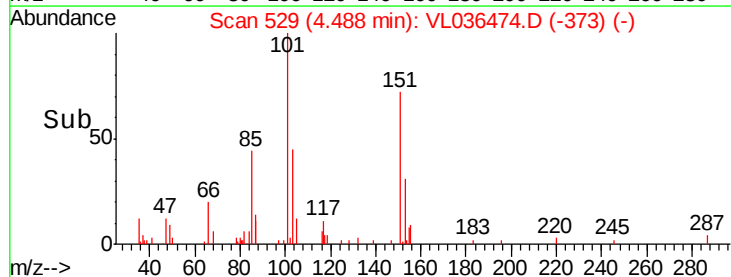
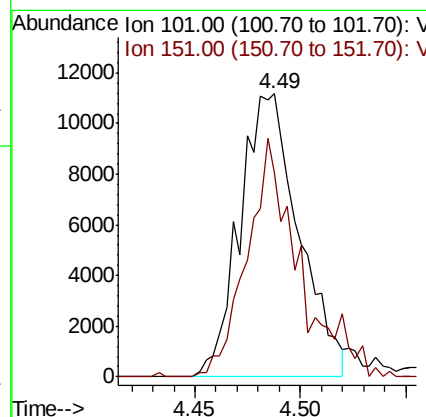
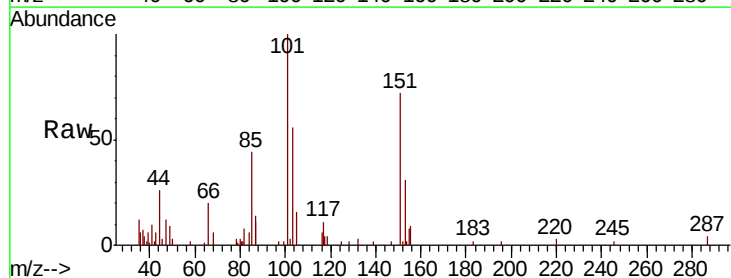
#11
 Trichlorofluoromethane
 Concen: 0.115 ppbv
 RT: 3.95 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 4:33

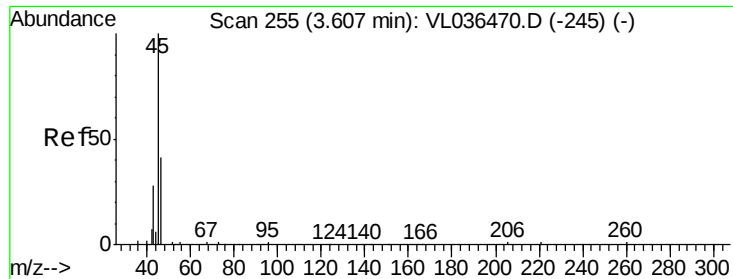
Tot Ion:101 Resp: 27179
 Ion Ratio Lower Upper
 101 100
 103 44.0 52.5 78.7#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.143 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T.: 0.00 min
 Lab File: VL036474.D
 Acq: 25 Mar 2021 4:33

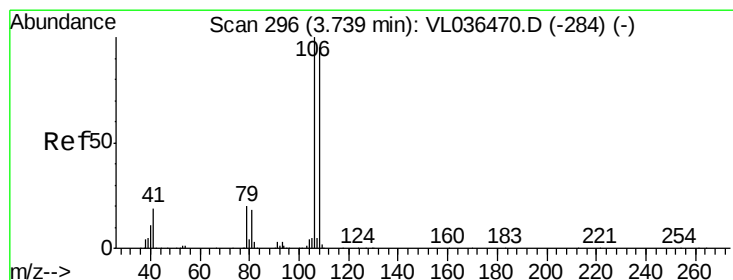
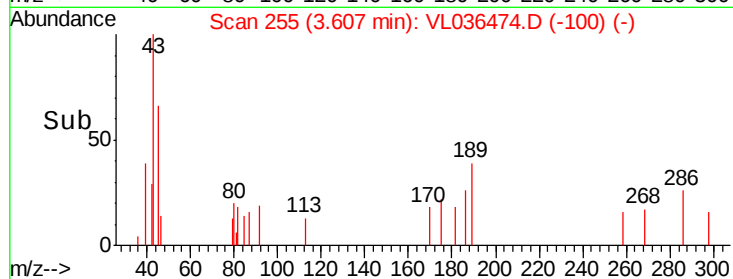
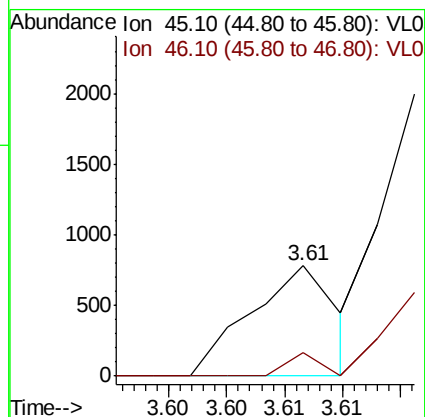
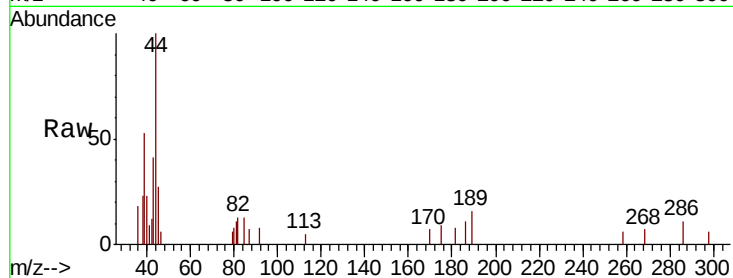
Tgt Ion:101 Resp: 21793
 Ion Ratio Lower Upper
 101 100
 151 74.0 60.9 91.3





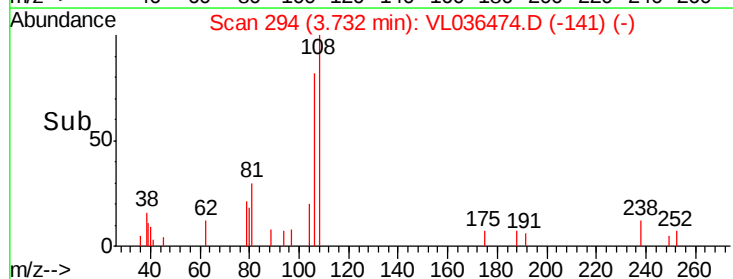
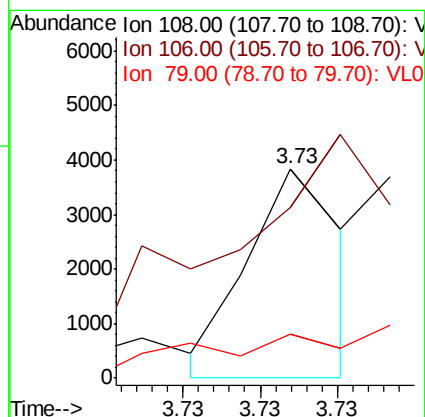
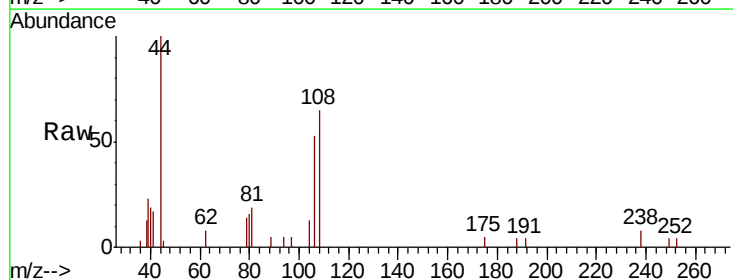
#13
Ethanol
Concen: 0.033 ppbv
RT: 3.61 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 4:33

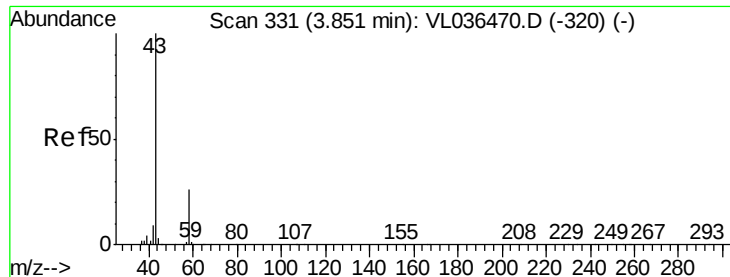
Tot Ion: 45 Resp: 403
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.4#



#14
Bromoethene
Concen: 0.026 ppbv
RT: 3.73 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL036474.D
Acq: 25 Mar 2021 4:33

Tgt Ion: 108 Resp: 1631
Ion Ratio Lower Upper
108 100
106 538.4 89.0 133.4#
79 0.0 16.8 25.2#





#15

Acetone

Concen: 0.149 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

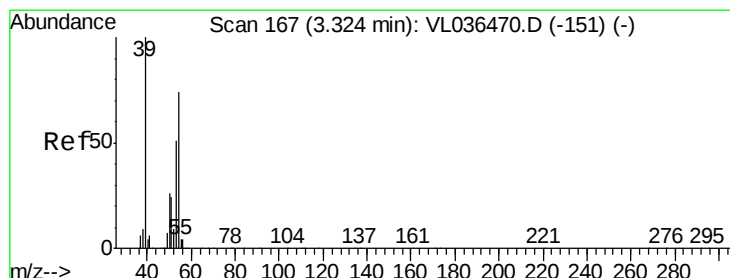
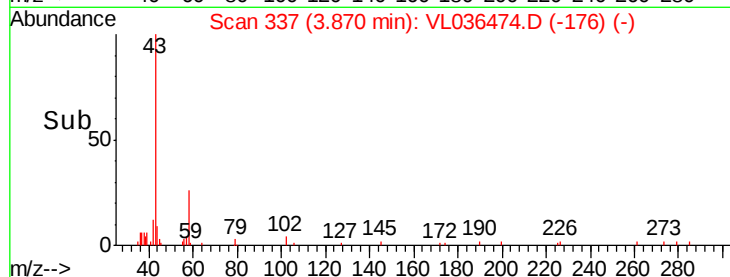
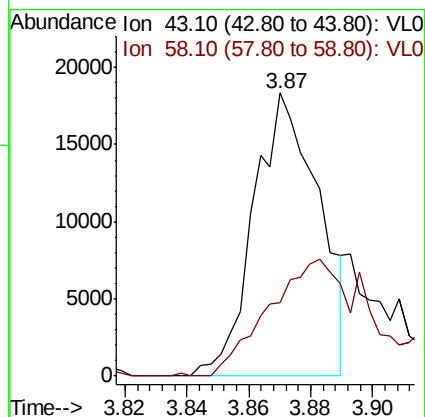
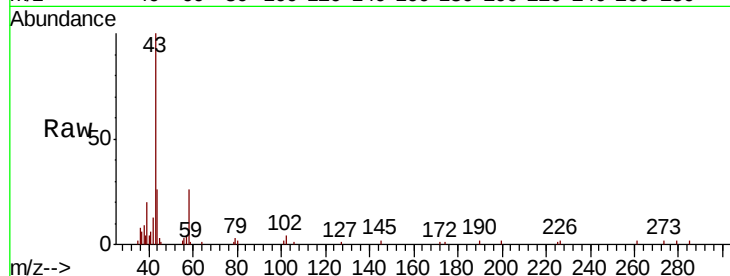
Acq: 25 Mar 2021 4:33

Tot Ion: 43 Resp: 26814

Ion Ratio Lower Upper

43 100

58 0.0 21.1 31.7#



#16

1,3-Butadiene

Concen: 0.093 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.00 min

Lab File: VL036474.D

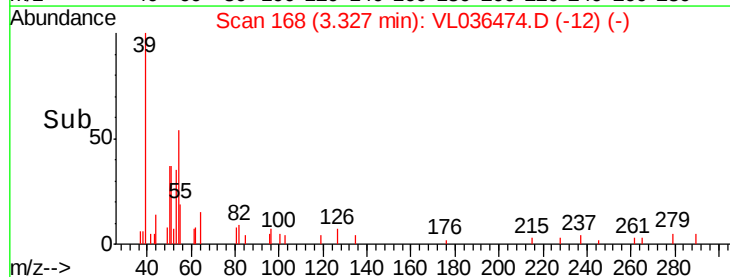
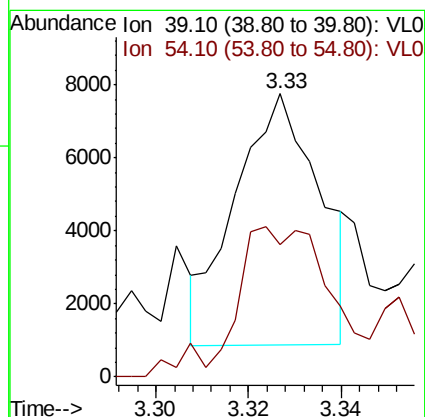
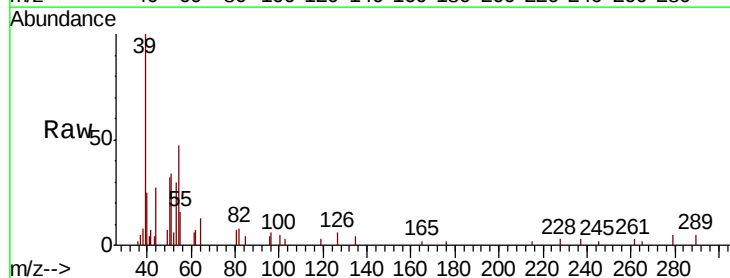
Acq: 25 Mar 2021 4:33

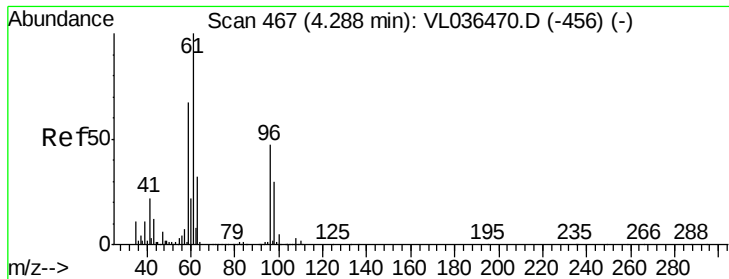
Tgt Ion: 39 Resp: 8667

Ion Ratio Lower Upper

39 100

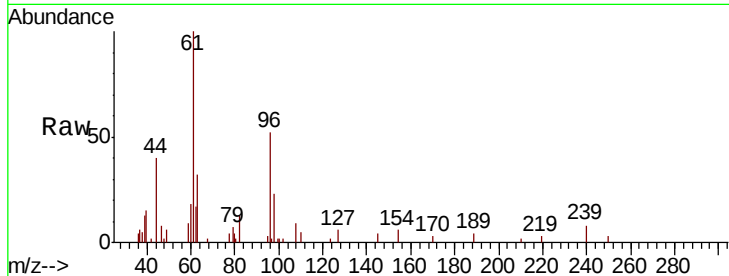
54 85.4 59.0 88.4



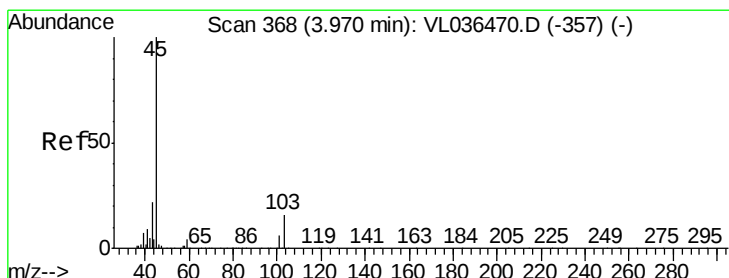
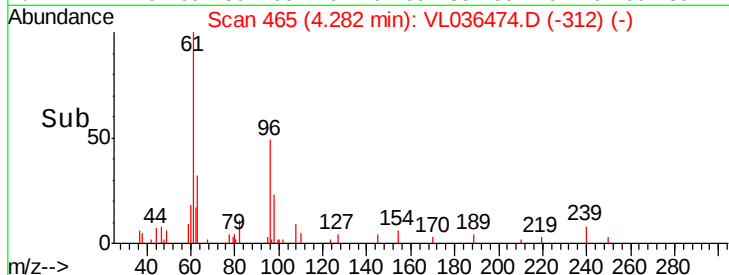
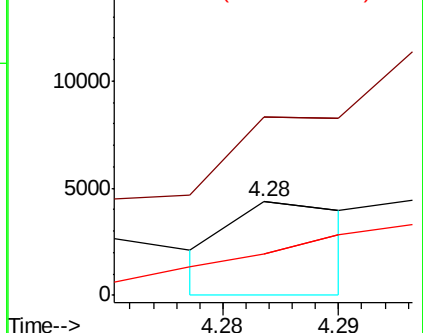


#18
 1,1-Dichloroethene
 Concen: 0.024 ppbv
 RT: 4.28 Instrument : MSVOA_1
 Delta R.T. ClientSampleId :
 Lab File:
 Acq: 25 Mar 2021 4:33

Tot Ion	96	Resp	1609
Ion	Ratio	Lower	Upper
96	100		
61	161.8	168.6	253.0#
98	25.2	50.8	76.2#

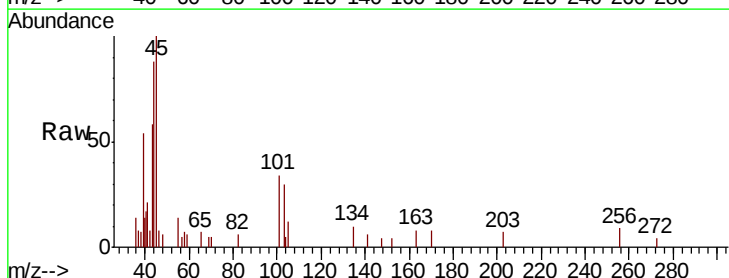


Abundance Ion 96.00 (95.70 to 96.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0

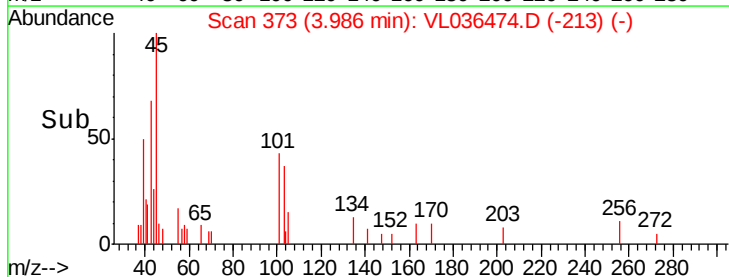
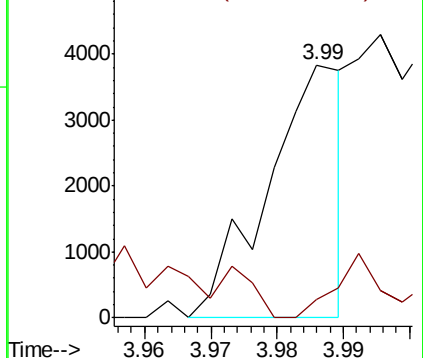


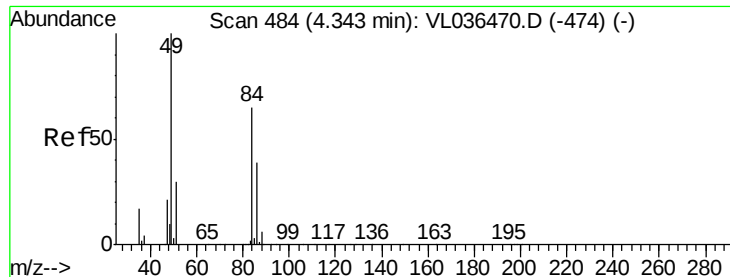
#19
 Isopropyl Alcohol
 Concen: 0.031 ppbv
 RT: 3.99 min Scan# 373
 Delta R.T. 0.02 min
 Lab File: VL036474.D
 Acq: 25 Mar 2021 4:33

Tgt Ion	45	Resp	3068
Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.3	3.5#



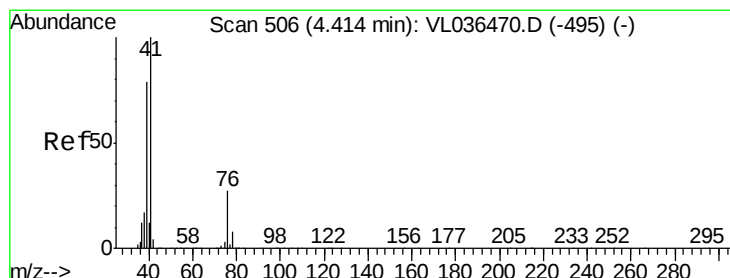
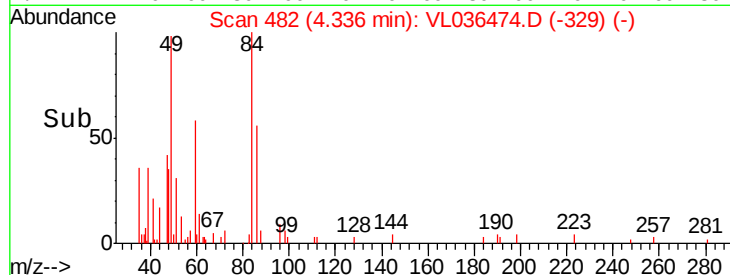
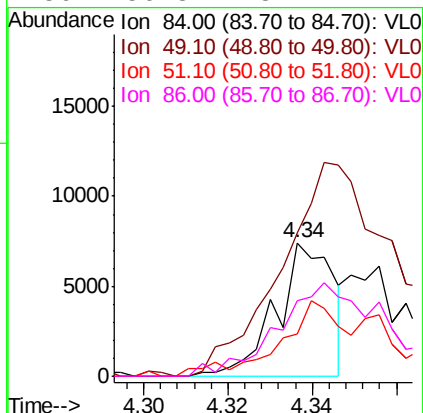
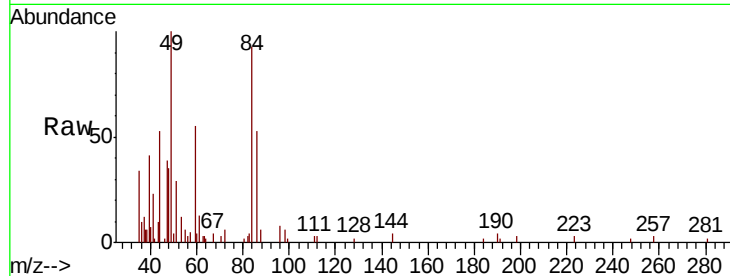
Abundance Ion 45.10 (44.80 to 45.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0





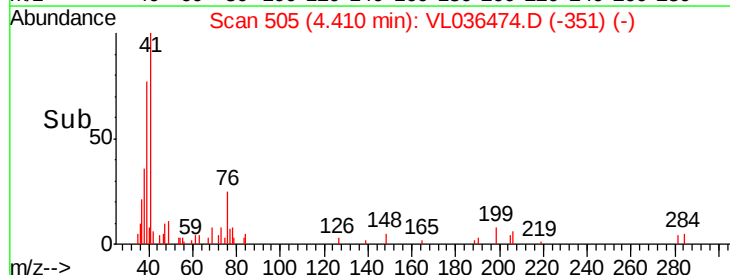
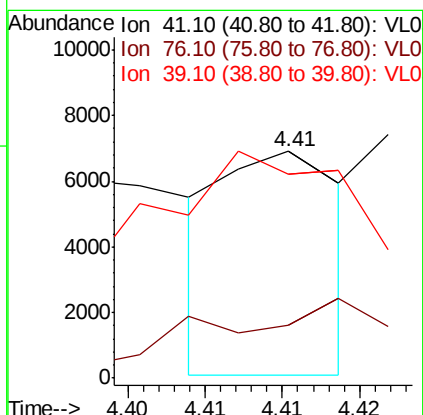
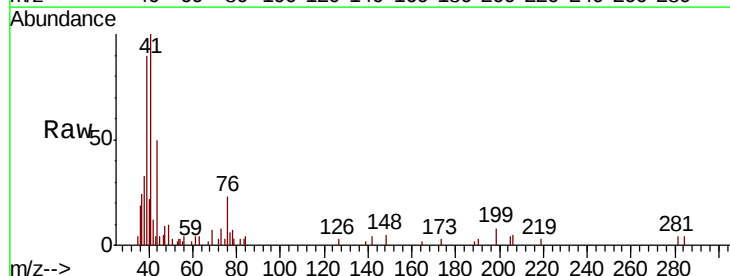
#20
Methylene Chloride
Concen: 0.107 ppbv
RT: 4.34 Instrument: MSVOA_1
Delta R.T. ClientSampleId:
Lab File:
Acq: 25 Mar 2021 4:33

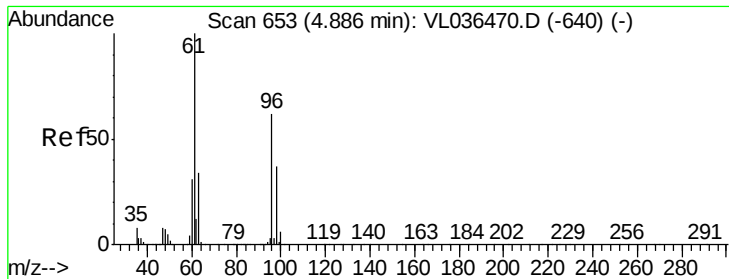
Tot Ion:	84	Resp:	6931
Ion	Ratio	Lower	Upper
84	100		
49	107.1	122.9	184.3#
51	25.1	36.9	55.3#
86	56.3	48.2	72.4



#21
Allyl Chloride
Concen: 0.034 ppbv
RT: 4.41 min Scan# 505
Delta R.T. -0.00 min
Lab File: VL036474.D
Acq: 25 Mar 2021 4:33

Tgt Ion:	41	Resp:	3664
Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.9	34.3#
39	446.3	69.4	104.0#





#22

trans-1,2-Dichloroethene

Concen: 0.062 ppbv

RT: 4.88 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File:

Acq: 25 Mar 2021 4:33

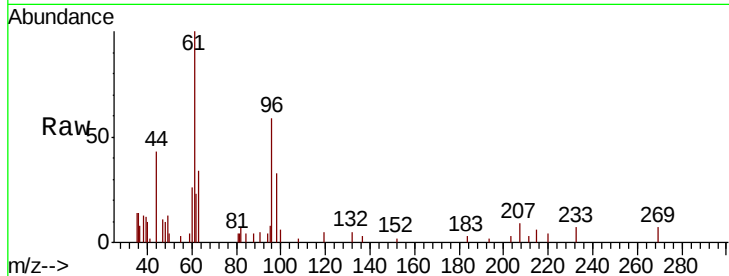
Tot Ion: 96 Resp: 3819

Ion Ratio Lower Upper

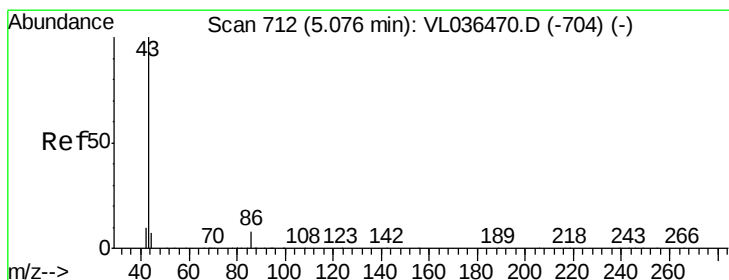
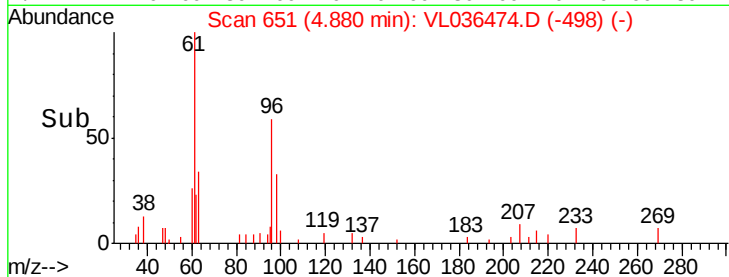
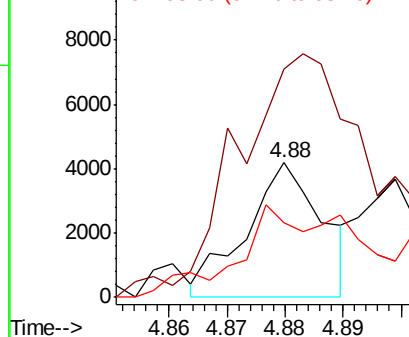
96 100

61 167.5 129.4 194.0

98 41.1 48.2 72.4#



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: 0.052 ppbv

RT: 5.08 min Scan# 712

Delta R.T. -0.00 min

Lab File: VL036474.D

Acq: 25 Mar 2021 4:33

Tgt Ion: 43 Resp: 11404

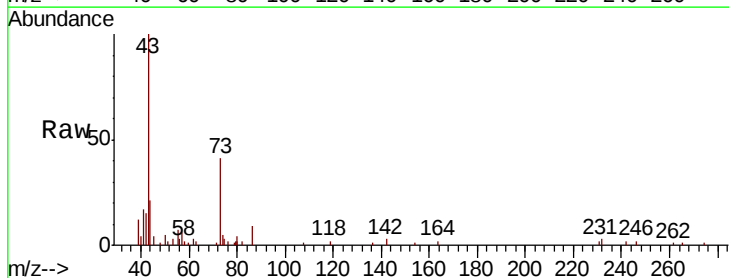
Ion Ratio Lower Upper

43 100

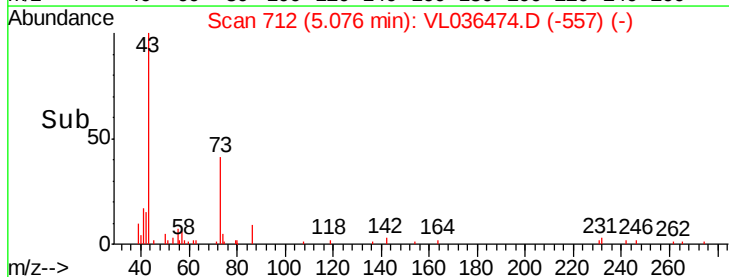
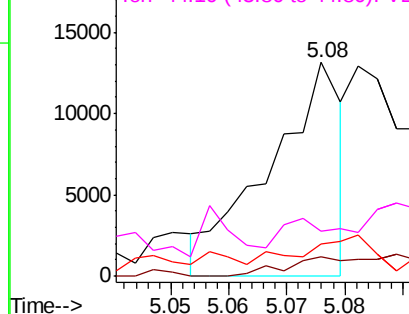
86 11.2 5.4 8.0#

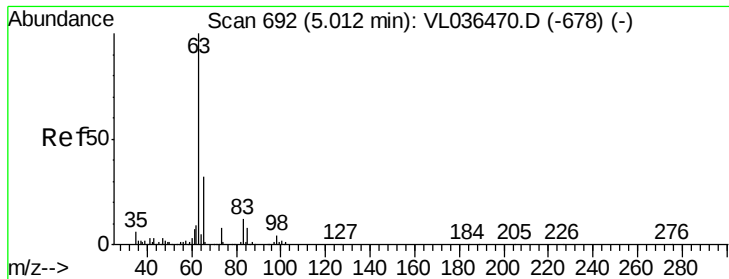
42 12.2 8.5 12.7

44 14.9 4.6 7.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 0.045 ppbv

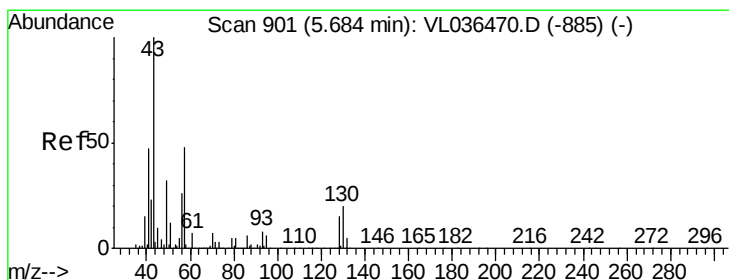
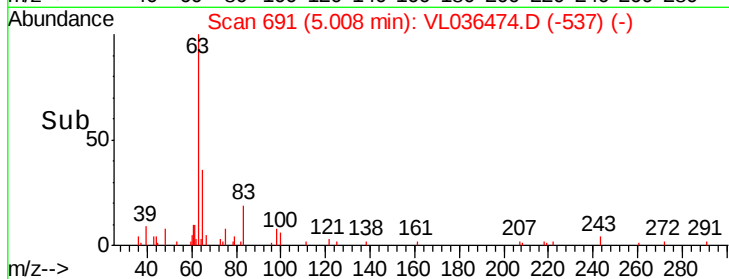
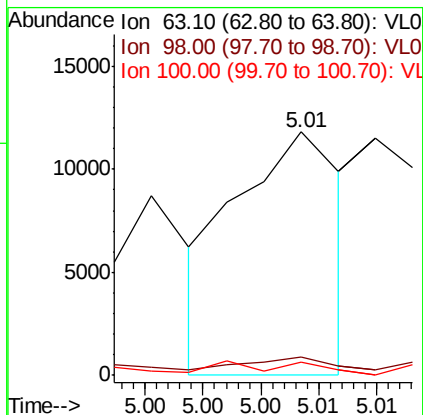
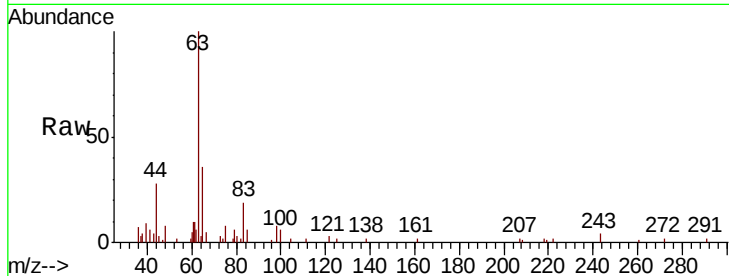
RT: 5.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 4:33

Tot Ion:	63	Resp:	7620
Ion	Ratio	Lower	Upper
63	100		
98	11.1	2.1	6.2#
100	9.0	0.9	2.8#



#25

Ethyl Acetate

Concen: 0.094 ppbv

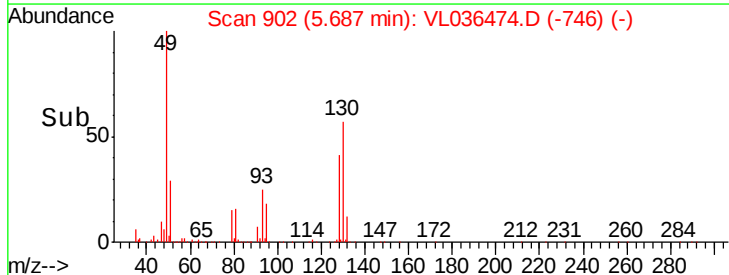
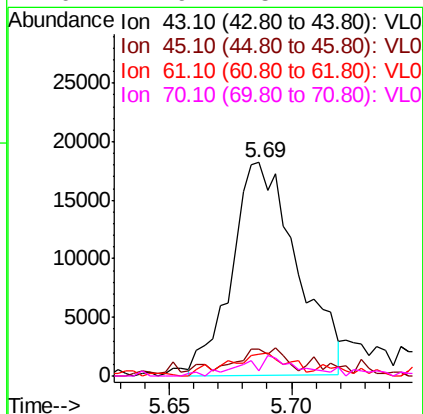
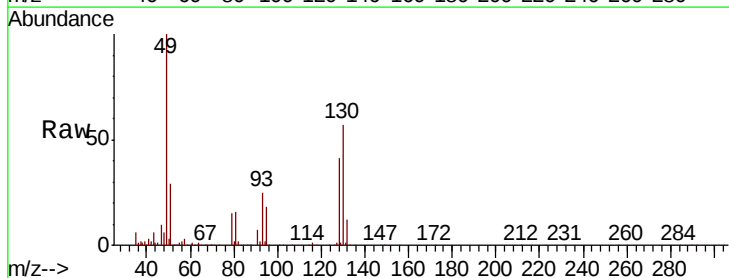
RT: 5.69 min Scan# 902

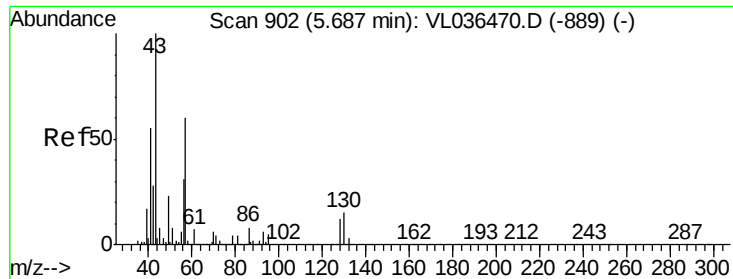
Delta R.T. 0.00 min

Lab File: VL036474.D

Acq: 25 Mar 2021 4:33

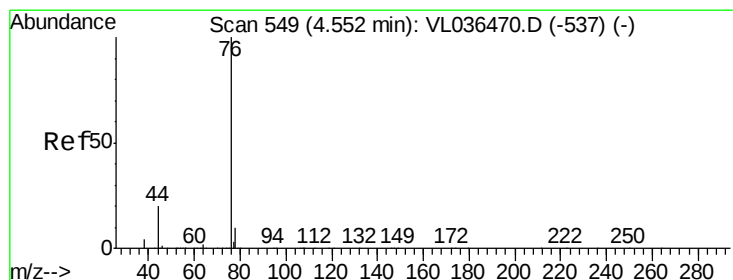
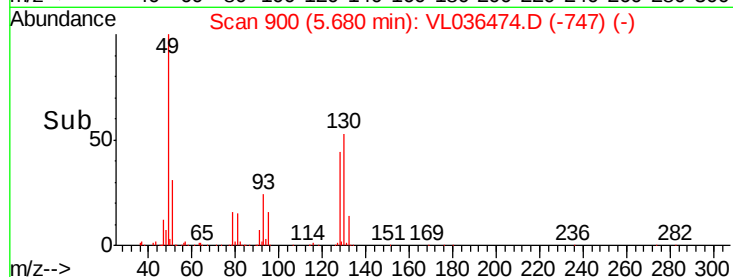
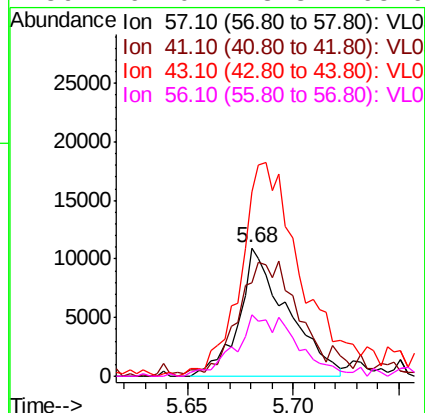
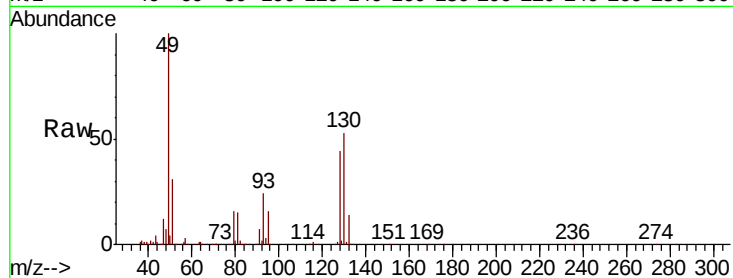
Tgt Ion:	43	Resp:	33961
Ion	Ratio	Lower	Upper
43	100		
45	14.5	7.9	11.9#
61	12.6	7.4	11.2#
70	7.9	5.1	7.7#





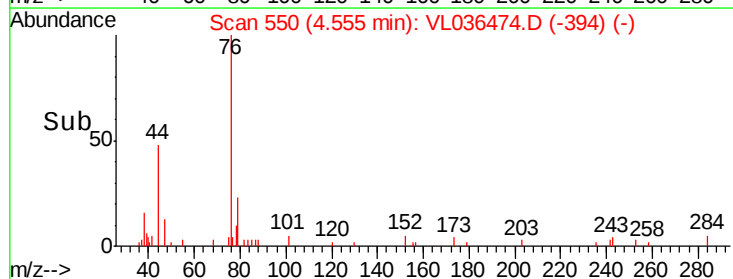
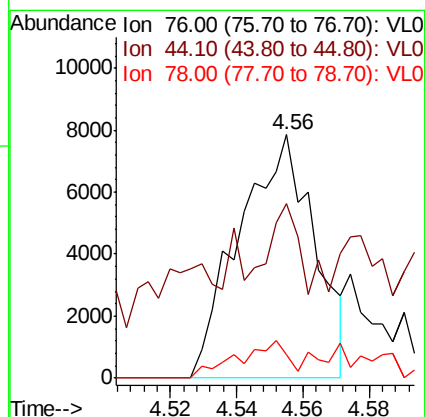
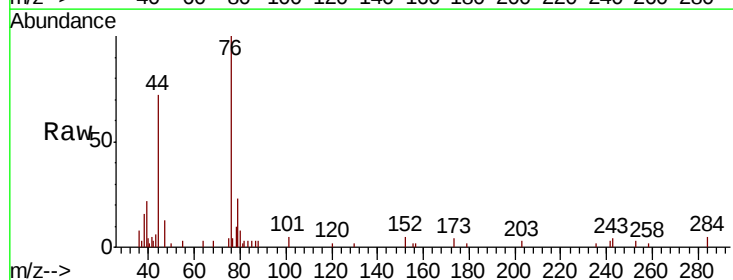
#26
Hexane
Concen: 0.115 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 4:33

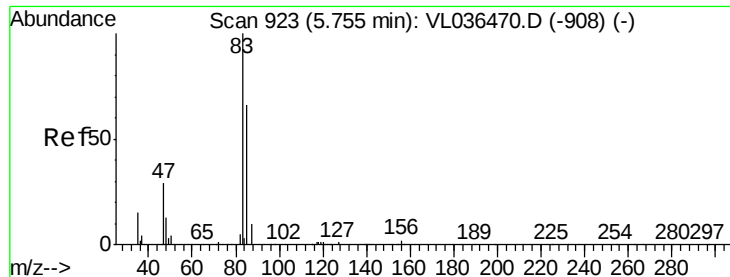
Tot Ion	Ratio	Lower	Upper
57	100		
41	128.8	77.3	115.9#
43	229.4	174.8	262.2
56	61.0	43.8	65.6



#27
Carbon Disulfide
Concen: 0.083 ppbv
RT: 4.56 min Scan# 550
Delta R.T.: 0.00 min
Lab File: VL036474.D
Acq: 25 Mar 2021 4:33

Tgt Ion	Ratio	Lower	Upper
76	100		
44	58.6	17.5	26.3#
78	21.5	8.6	13.0#





#29

Chloroform

Concen: 0.124 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

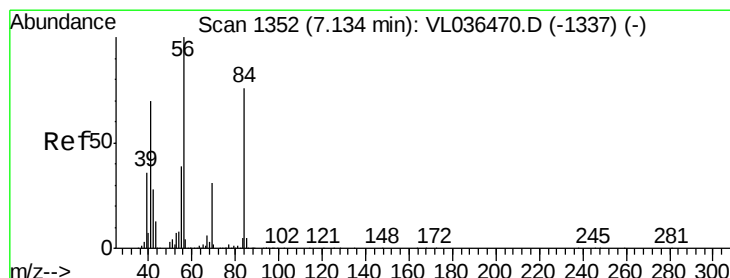
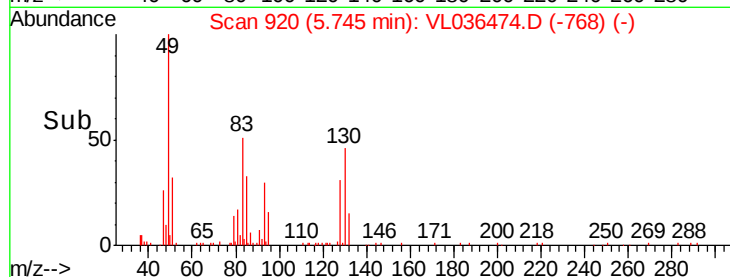
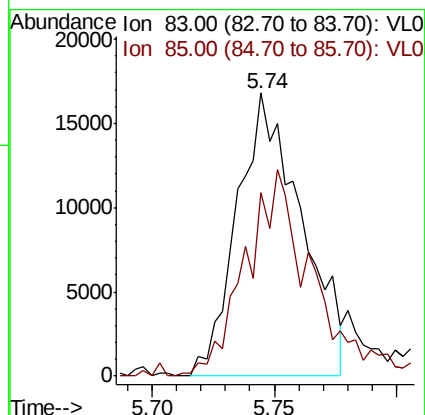
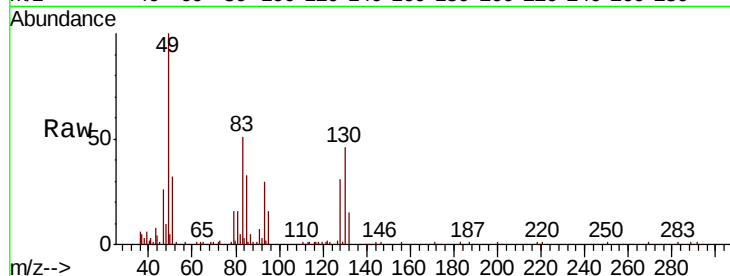
Acq: 25 Mar 2021 4:33

Tot Ion: 83 Resp: 30724

Ion Ratio Lower Upper

83 100

85 65.5 52.6 78.8



#30

Cyclohexane

Concen: 0.046 ppbv

RT: 7.13 min Scan# 1352

Delta R.T. -0.00 min

Lab File: VL036474.D

Acq: 25 Mar 2021 4:33

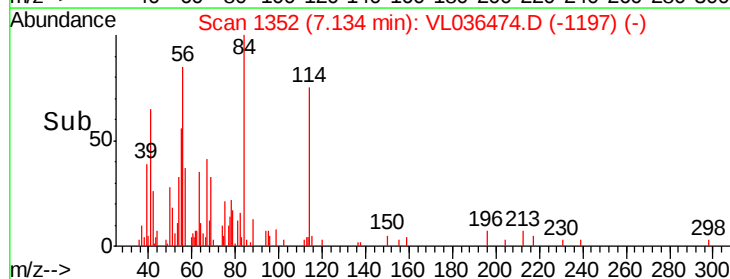
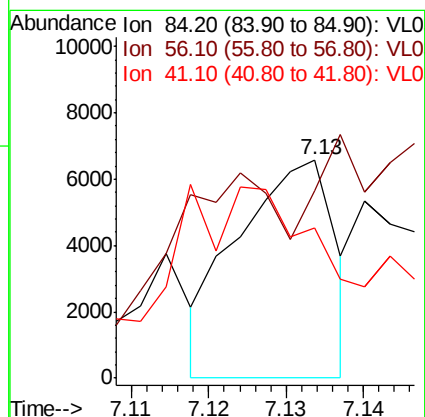
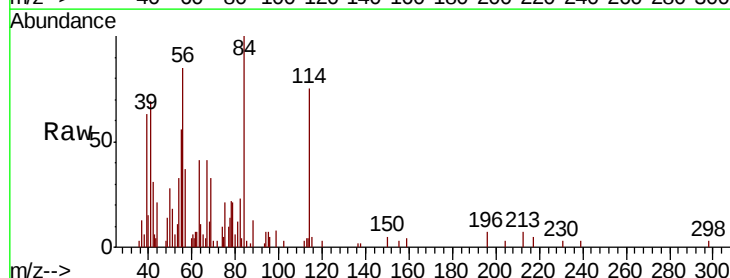
Tgt Ion: 84 Resp: 5750

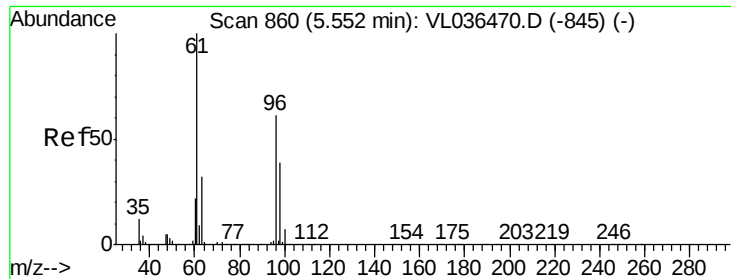
Ion Ratio Lower Upper

84 100

56 0.0 114.6 171.8#

41 0.0 75.3 112.9#





#31

cis-1,2-Dichloroethene

Concen: 0.069 ppbv

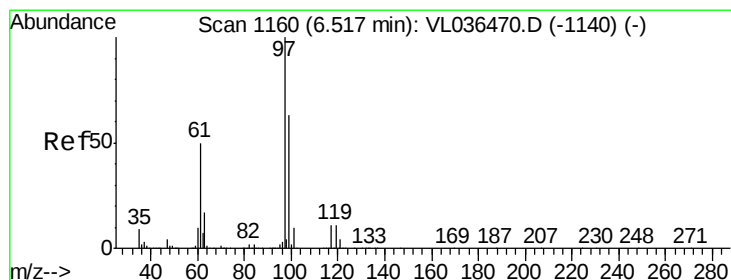
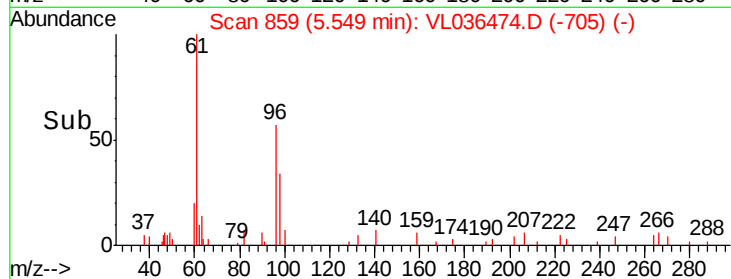
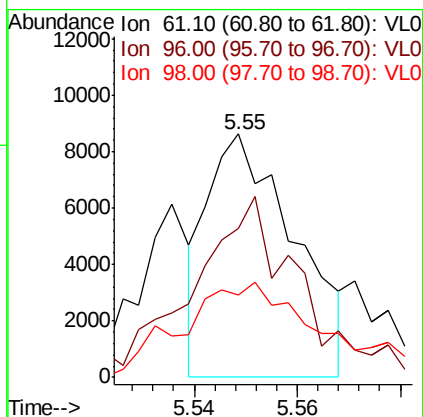
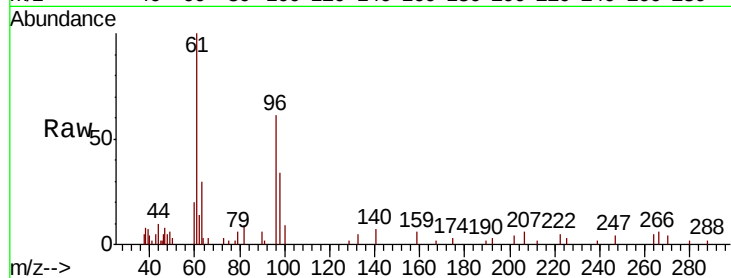
RT: 5.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 4:33

Tot Ion:	61	Resp:	10158
Ion	Ratio	Lower	Upper
61	100		
96	65.0	48.7	73.1
98	25.0	31.4	47.0#



#32

1,1,1-Trichloroethane

Concen: 0.098 ppbv

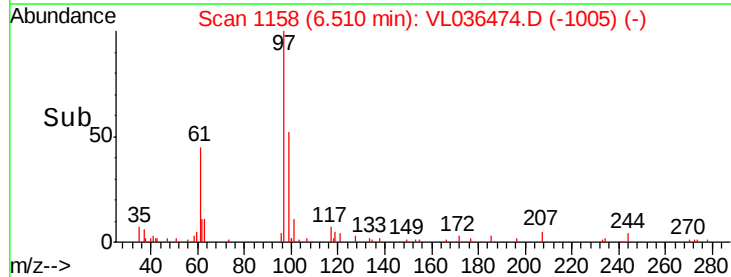
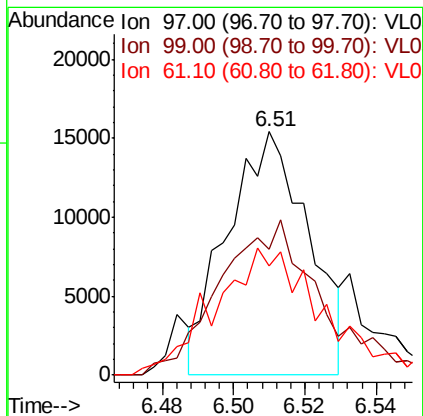
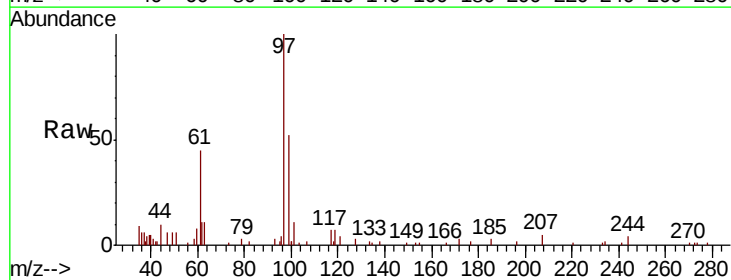
RT: 6.51 min Scan# 1158

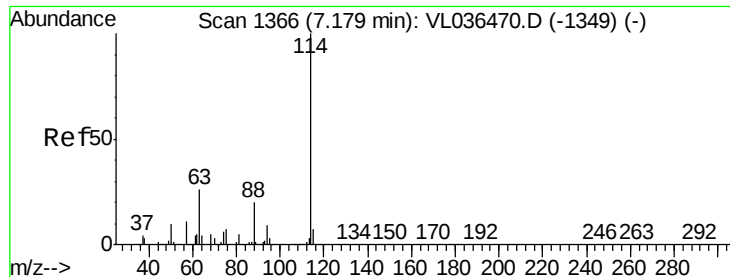
Delta R.T. -0.01 min

Lab File: VL036474.D

Acq: 25 Mar 2021 4:33

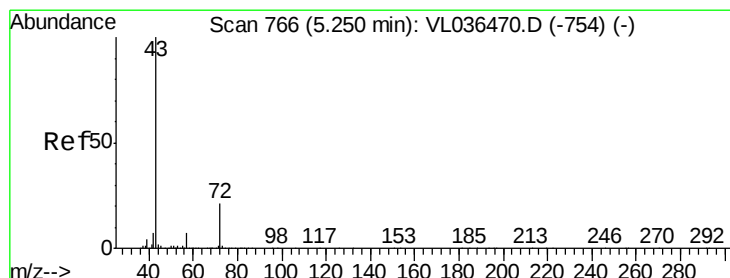
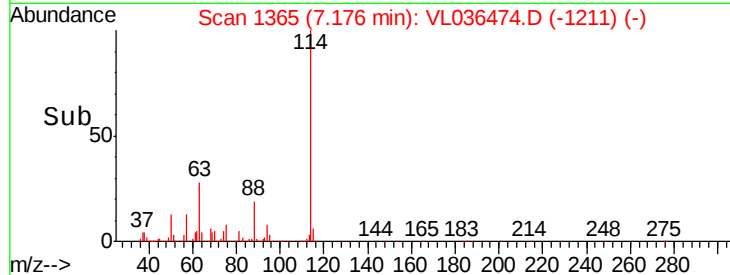
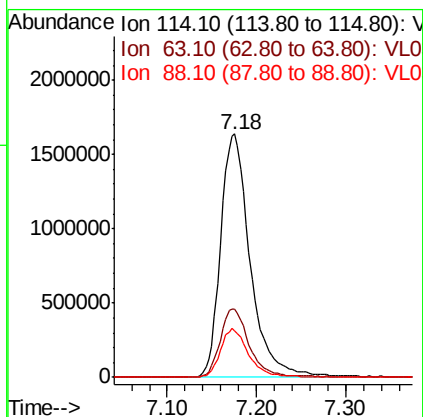
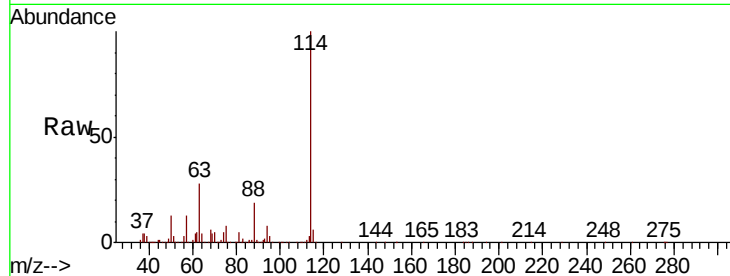
Tgt Ion:	97	Resp:	24215
Ion	Ratio	Lower	Upper
97	100		
99	81.4	51.4	77.0#
61	72.0	40.6	60.8#





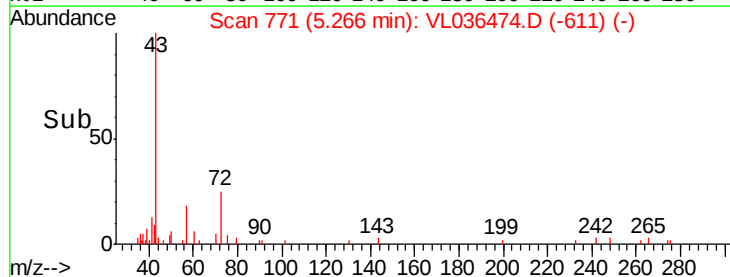
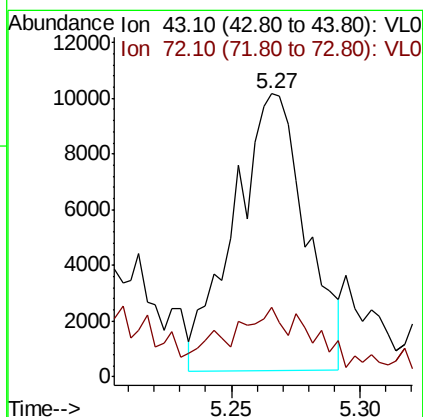
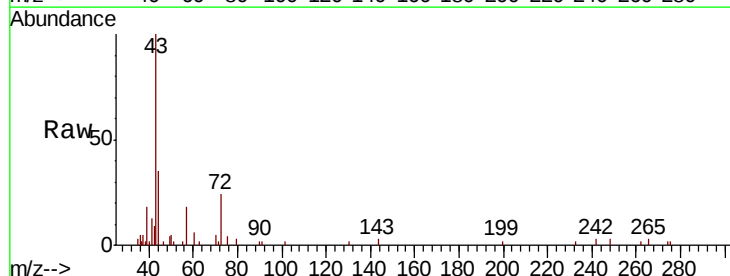
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 4:33

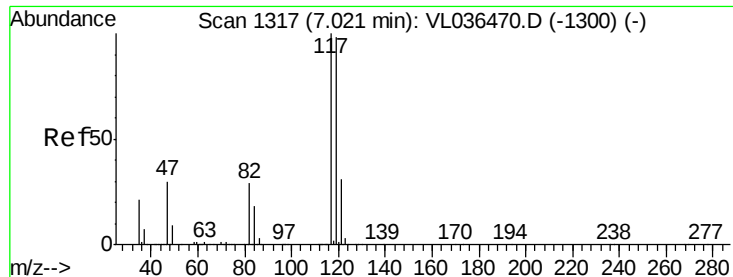
Tot Ion: 114 Resp: 3767499
 Ion Ratio Lower Upper
 114 100
 63 28.3 22.4 33.6
 88 19.2 15.4 23.0



#34
 2-Butanone
 Concen: 0.087 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.02 min
 Lab File: VL036474.D
 Acq: 25 Mar 2021 4:33

Tgt Ion: 43 Resp: 19188
 Ion Ratio Lower Upper
 43 100
 72 33.2 17.0 25.6#





#35

Carbon Tetrachloride

Concen: 0.067 ppbv

RT: 7.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 4:33

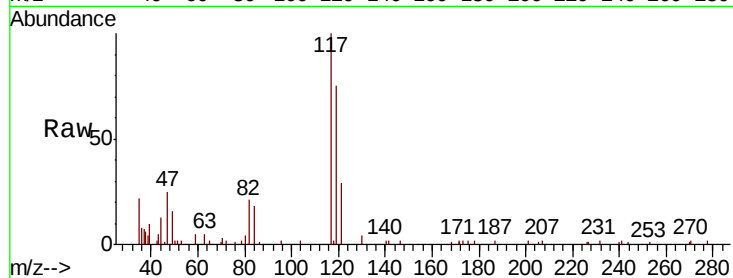
Tot Ion:117 Resp: 16518

Ion Ratio Lower Upper

117 100

119 63.6 78.2 117.2#

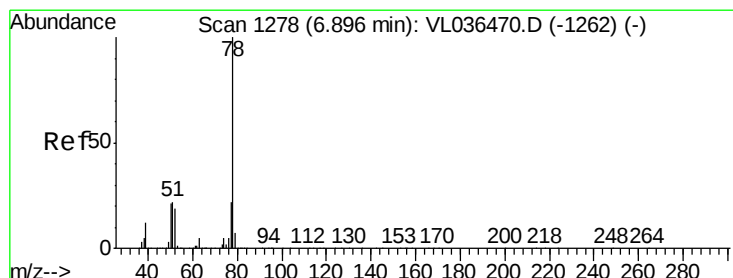
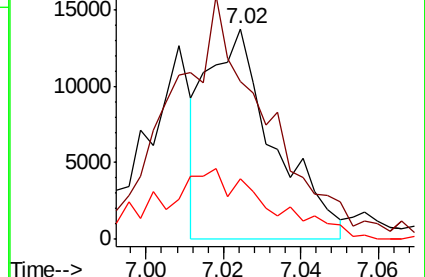
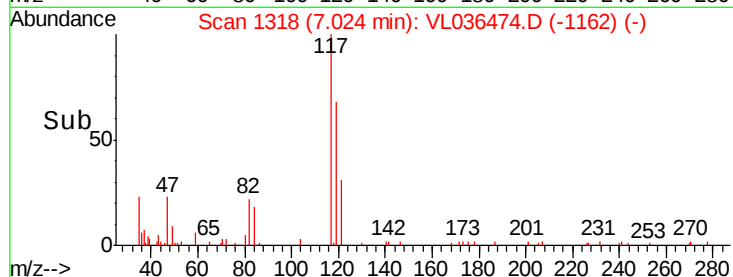
121 24.4 24.5 36.7#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.036 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL036474.D

Acq: 25 Mar 2021 4:33

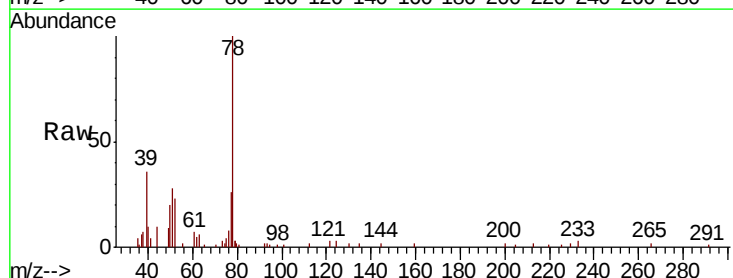
Tgt Ion: 78 Resp: 10878

Ion Ratio Lower Upper

78 100

77 25.6 18.0 27.0

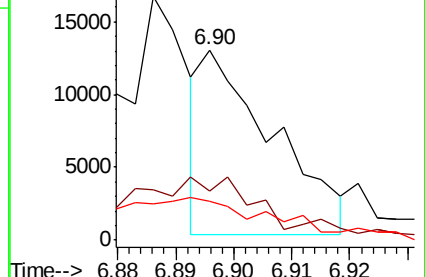
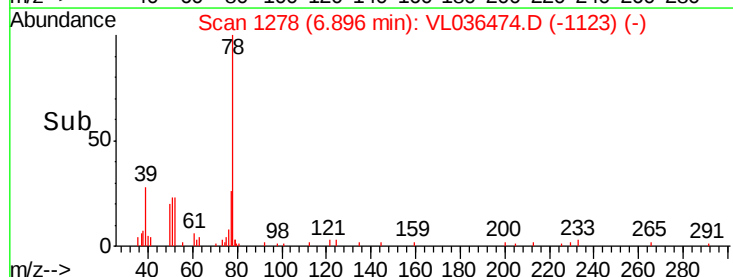
50 21.3 16.5 24.7

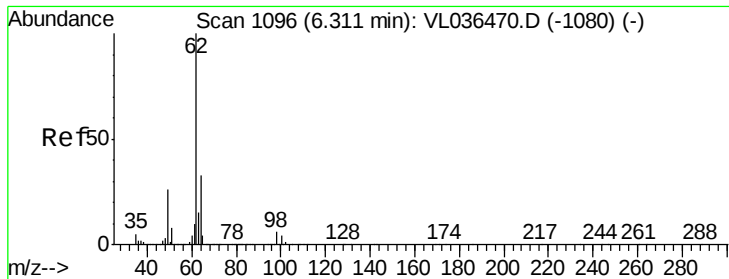


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

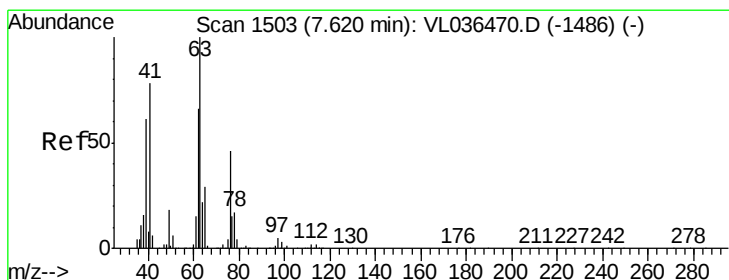
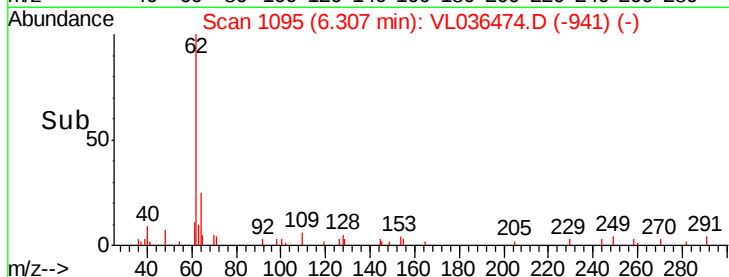
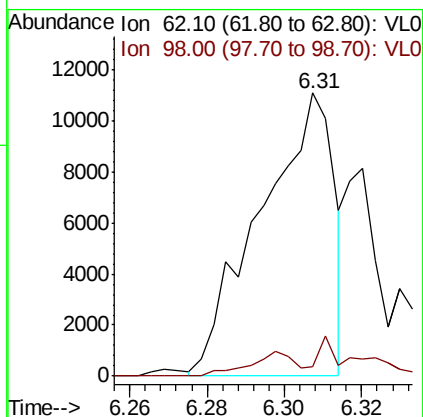
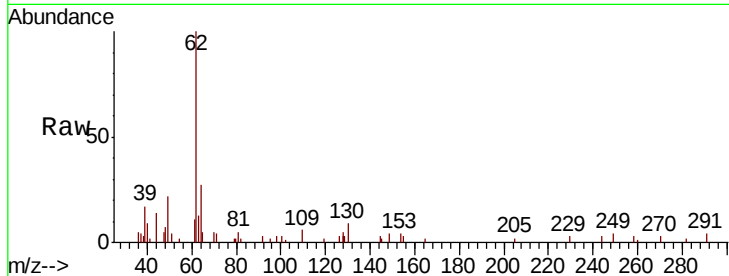
Ion 50.10 (49.80 to 50.80): VL0





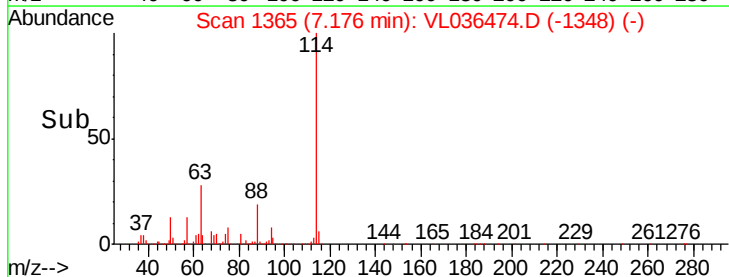
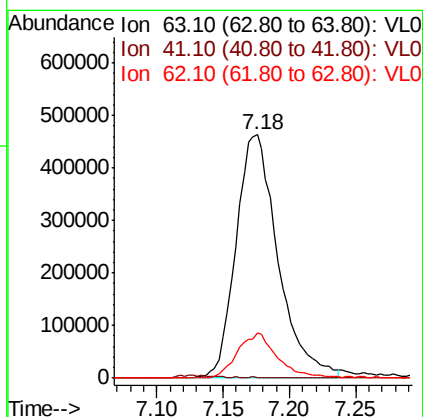
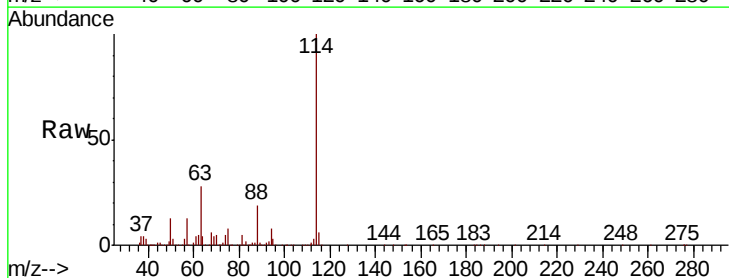
#37
 1,2-Dichloroethane
 Concen: 0.078 ppbv
 RT: 6.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 4:33

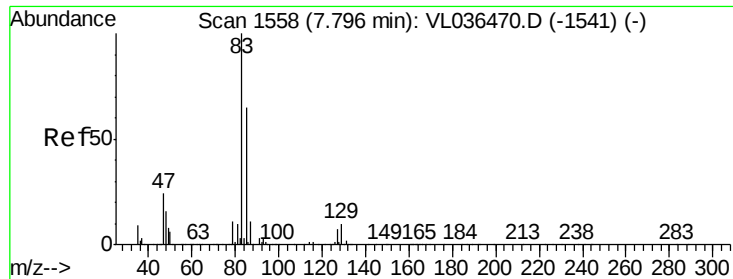
Tot Ion: 62 Resp: 14672
 Ion Ratio Lower Upper
 62 100
 98 15.5 4.7 7.1#



#39
 1,2-Dichloropropane
 Concen: 7.990 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.44 min
 Lab File: VL036474.D
 Acq: 25 Mar 2021 4:33

Tgt Ion: 63 Resp: 1023647
 Ion Ratio Lower Upper
 63 100
 41 0.2 62.4 93.6#
 62 18.7 52.8 79.2#





#42

Bromodichloromethane

Concen: 0.067 ppbv

RT: 7.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 4:33

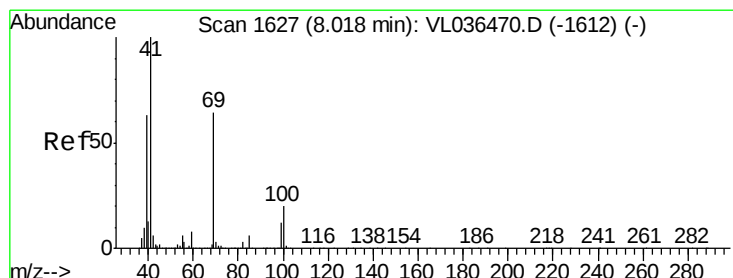
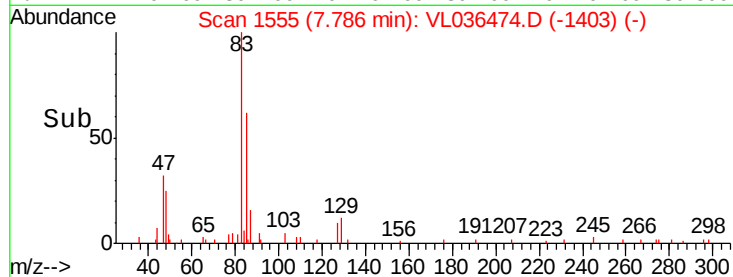
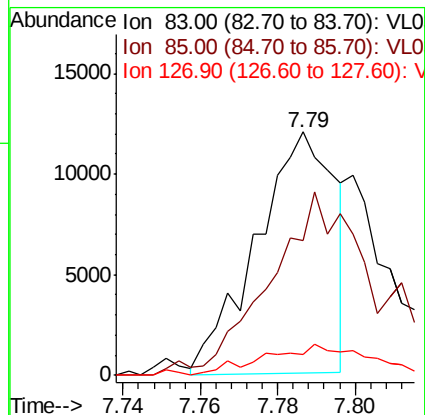
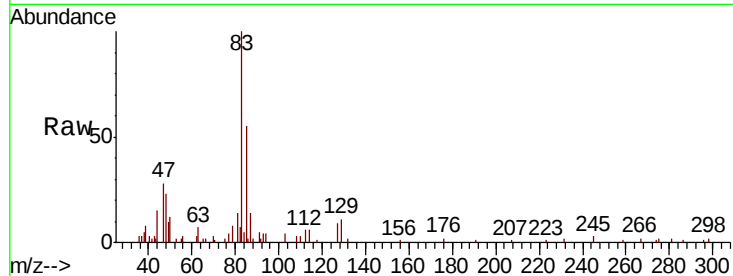
Tot Ion: 83 Resp: 16882

Ion Ratio Lower Upper

83 100

85 53.4 51.8 77.6

127 9.0 5.8 8.8#



#43

Methyl Methacrylate

Concen: 0.026 ppbv

RT: 8.02 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VL036474.D

Acq: 25 Mar 2021 4:33

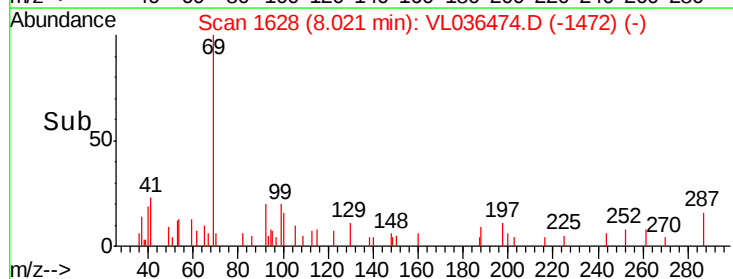
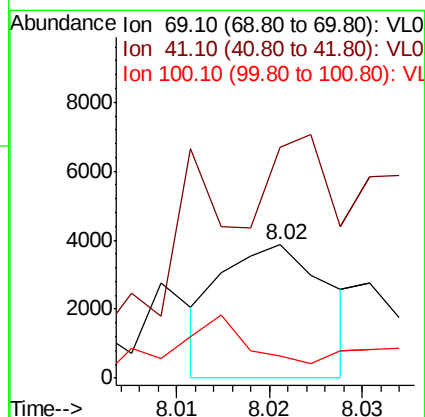
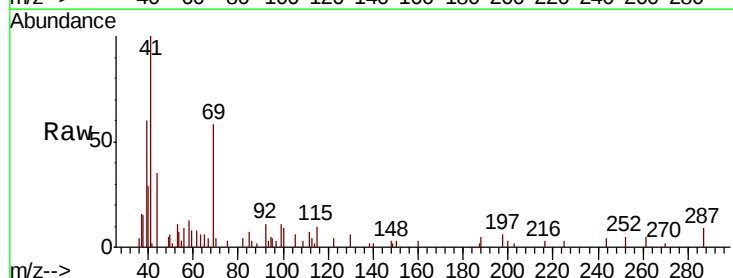
Tgt Ion: 69 Resp: 3095

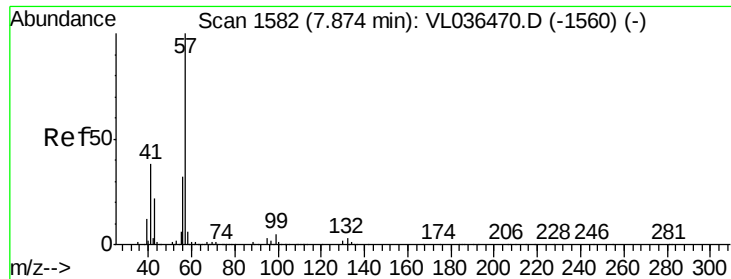
Ion Ratio Lower Upper

69 100

41 497.0 126.8 190.2#

100 93.2 24.9 37.3#





#44

2,2,4-Trimethylpentane

Concen: 0.053 ppbv

RT: 7.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 4:33

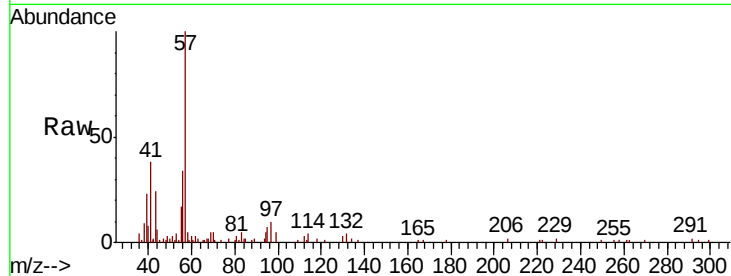
Tot Ion: 57 Resp: 28992

Ion Ratio Lower Upper

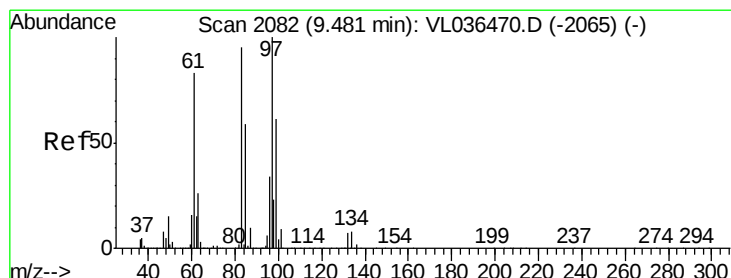
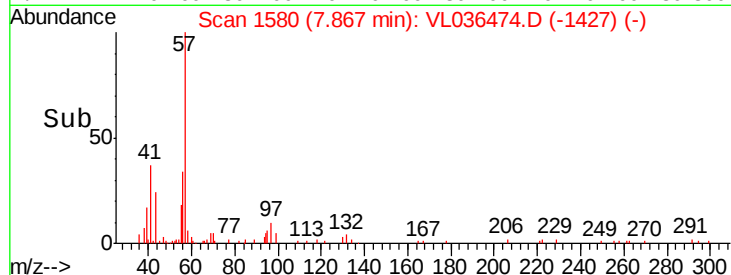
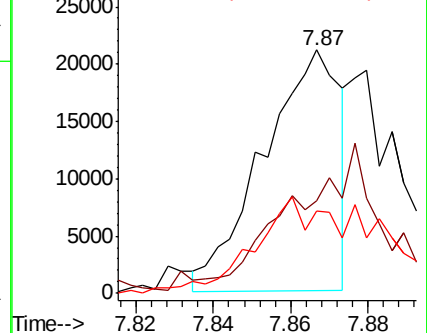
57 100

41 0.0 28.8 43.2#

56 66.9 26.1 39.1#



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



#47

1,1,2-Trichloroethane

Concen: 0.033 ppbv

RT: 9.49 min Scan# 2085

Delta R.T. 0.01 min

Lab File: VL036474.D

Acq: 25 Mar 2021 4:33

Tgt Ion: 97 Resp: 4170

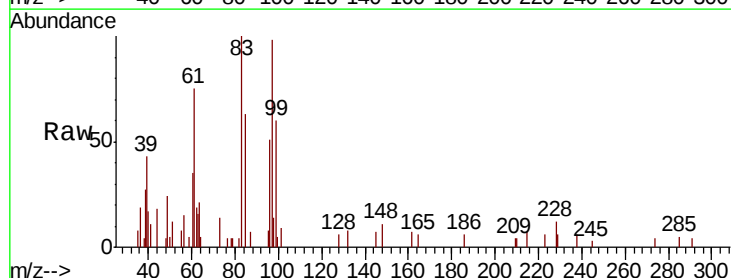
Ion Ratio Lower Upper

97 100

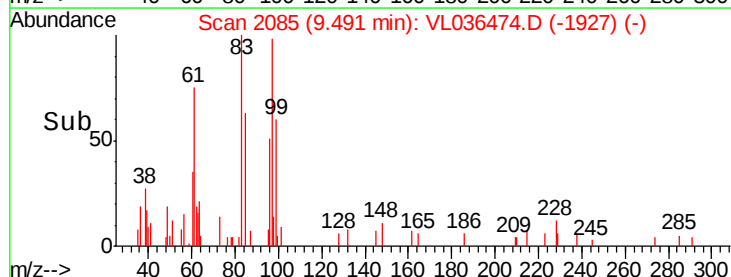
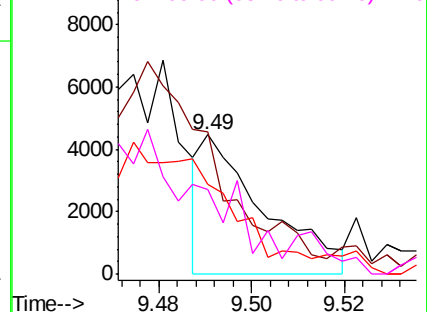
83 100.2 75.8 113.8

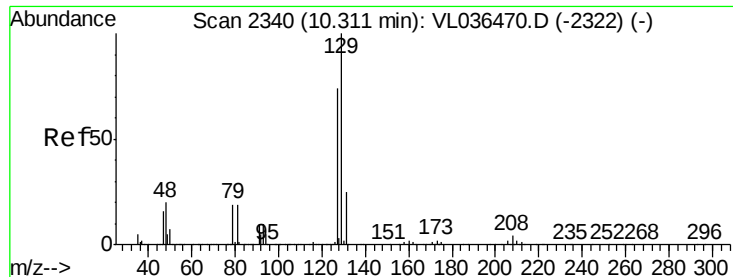
85 63.0 47.1 70.7

99 68.4 49.2 73.8



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





#48

Dibromochloromethane

Concen: 0.025 ppbv

RT: 10.31 min

Delta R.T. MSVOA_L

Lab File:

Acq: 25 Mar 2021 4:33

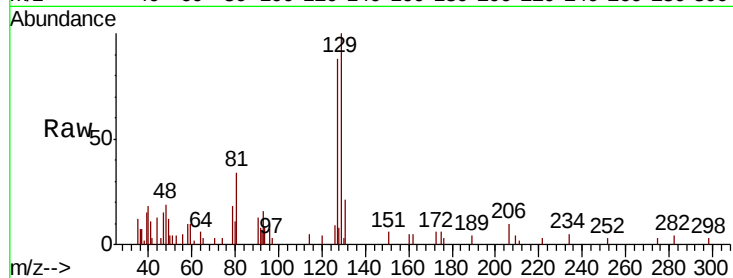
ClientSampleId :

Tot Ion:129 Resp: 4794

Ion Ratio Lower Upper

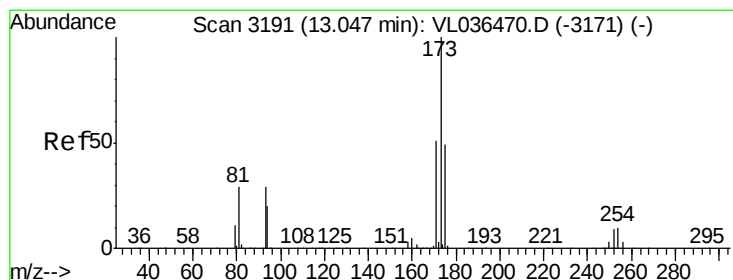
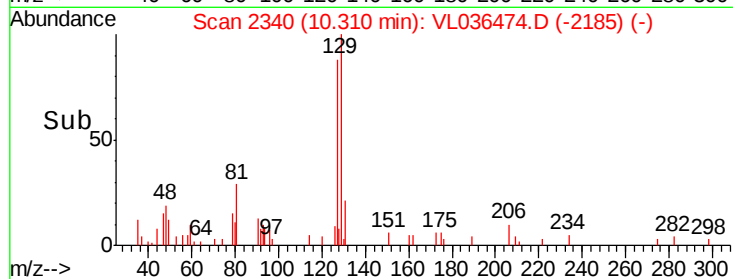
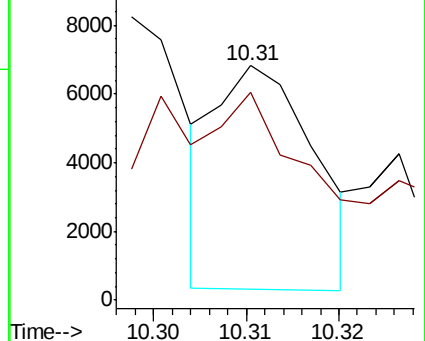
129 100

127 302.5 39.6 118.8#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#49

Bromoform

Concen: 0.076 ppbv

RT: 13.05 min Scan# 3192

Delta R.T. 0.00 min

Lab File: VL036474.D

Acq: 25 Mar 2021 4:33

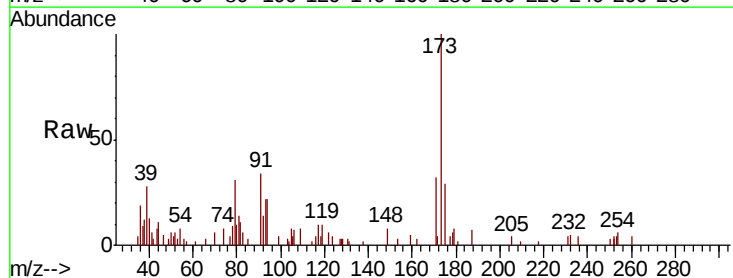
Tgt Ion:173 Resp: 11917

Ion Ratio Lower Upper

173 100

175 68.6 39.6 59.4#

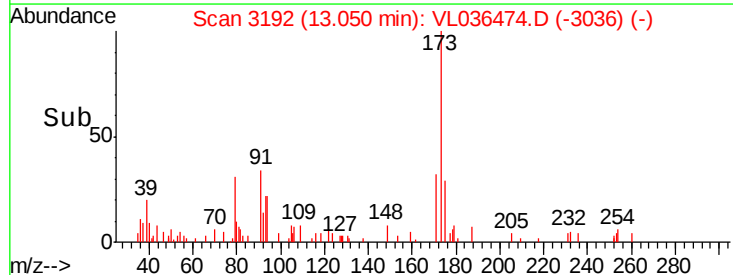
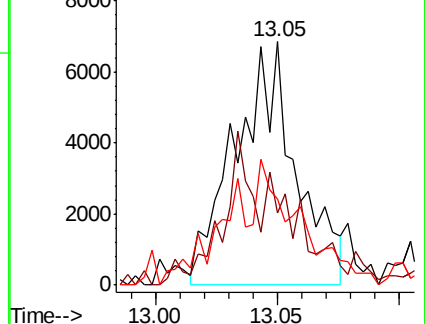
171 61.9 41.4 62.0

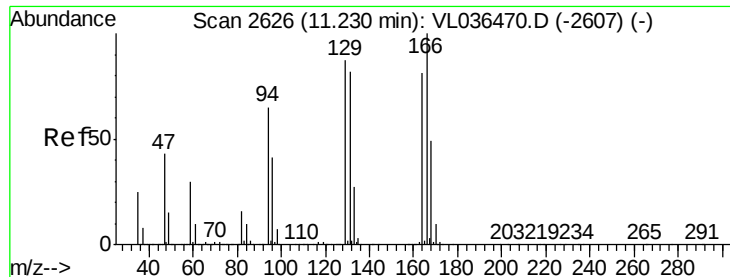


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V





#52

Tetrachloroethene

Concen: 0.025 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 4:33

Tot Ion: 164 Resp: 2778

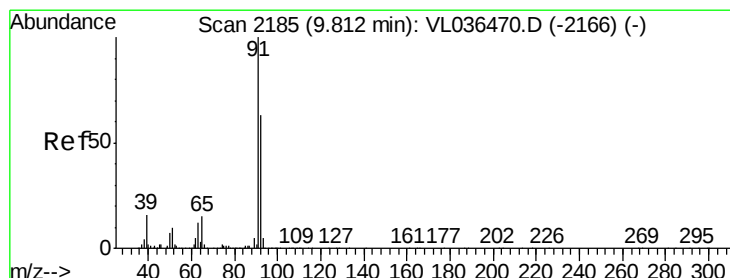
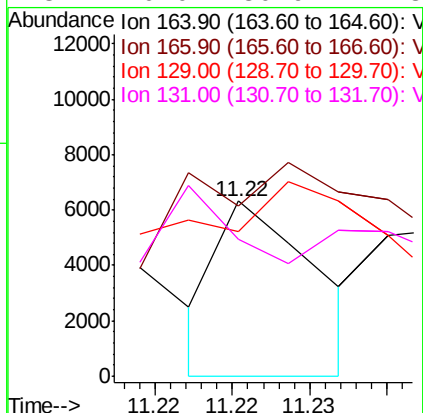
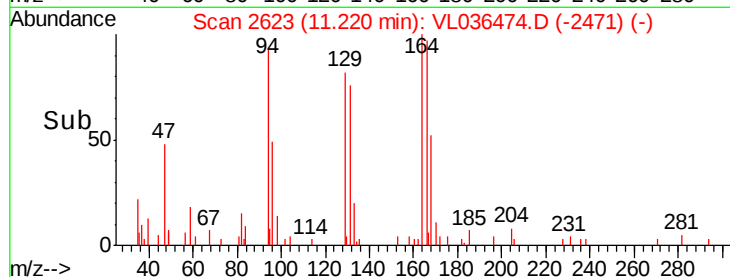
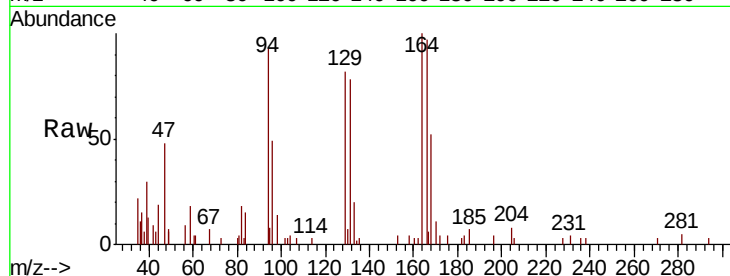
Ion Ratio Lower Upper

164 100

166 0.0 98.3 147.5#

129 0.0 85.8 128.8#

131 0.0 80.9 121.3#



#53

Toluene

Concen: 0.050 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL036474.D

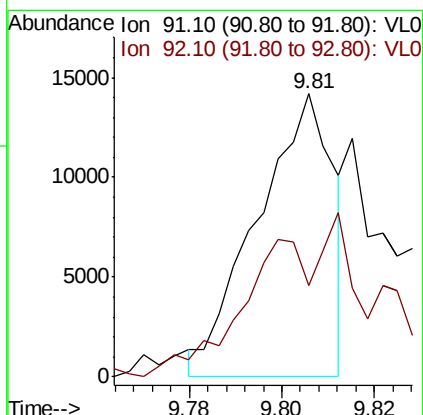
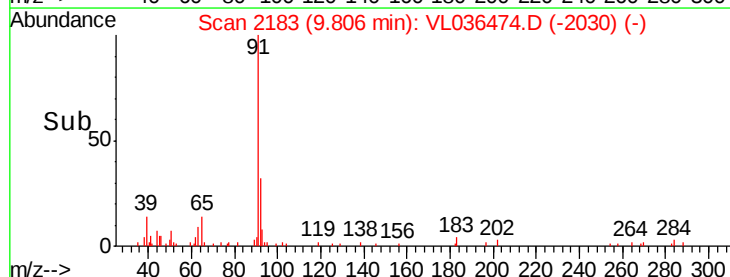
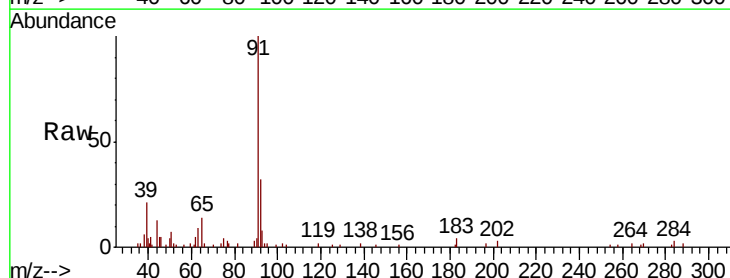
Acq: 25 Mar 2021 4:33

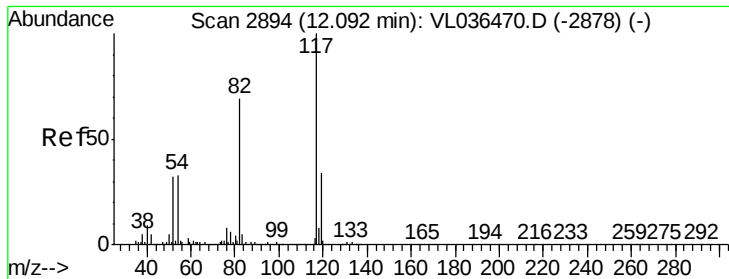
Tgt Ion: 91 Resp: 16257

Ion Ratio Lower Upper

91 100

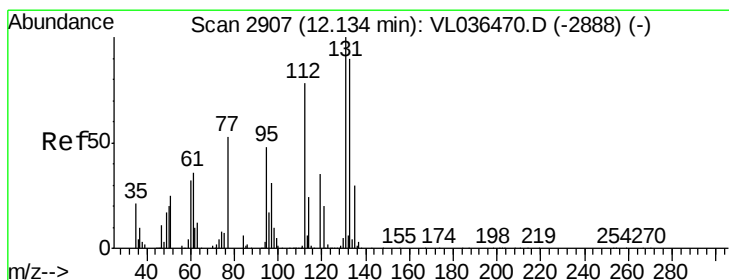
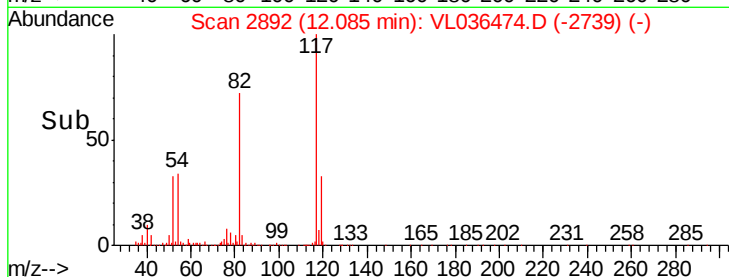
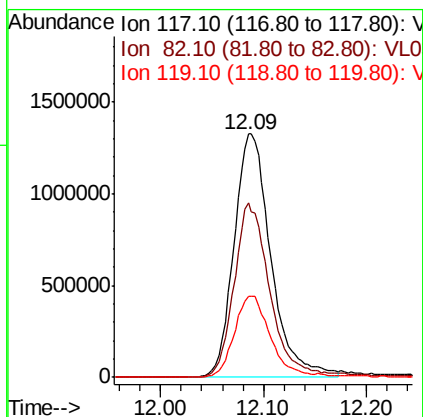
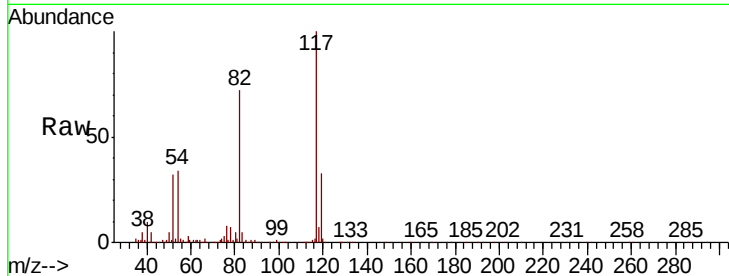
92 0.0 48.9 73.3#





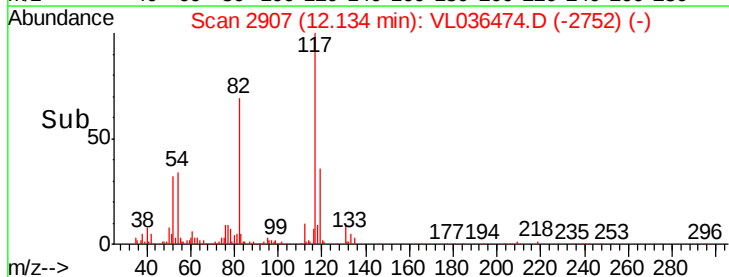
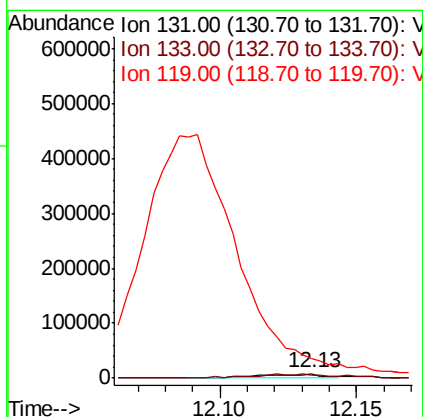
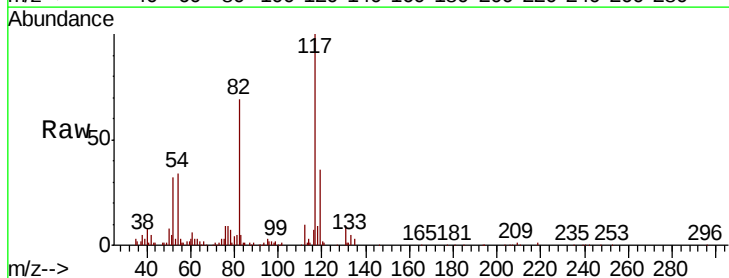
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 4:33

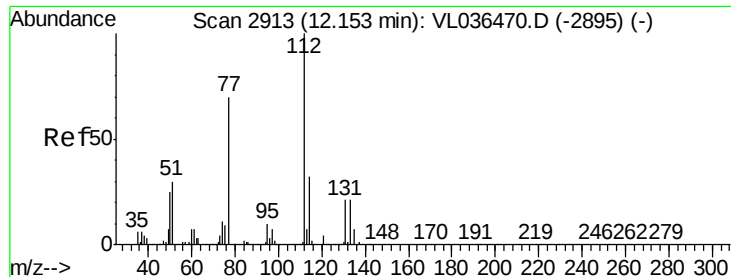
Tot Ion:117 Resp: 3301368
Ion Ratio Lower Upper
117 100
82 71.2 57.4 86.0
119 33.7 47.4 71.2#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.086 ppbv
RT: 12.13 min Scan# 2907
Delta R.T.: -0.00 min
Lab File: VL036474.D
Acq: 25 Mar 2021 4:33

Tgt Ion:131 Resp: 12726
Ion Ratio Lower Upper
131 100
133 131.3 76.0 114.0#
119 0.0 44.9 67.3#





#57

Chlorobenzene

Concen: 0.071 ppbv

RT: 12.15

Delta R.T. MSVOA_L

Lab File:

Acq: 25 Mar 2021 4:33

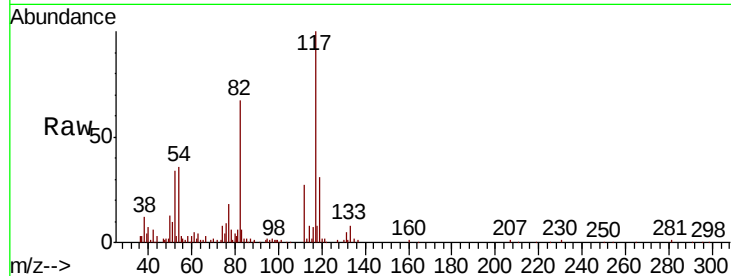
Tot Ion: 112 Resp: 17434

Ion Ratio Lower Upper

112 100

77 64.3 56.0 84.0

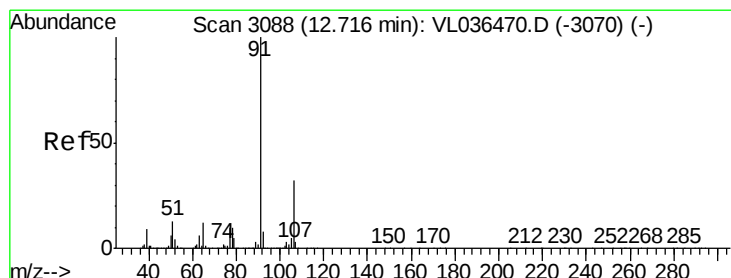
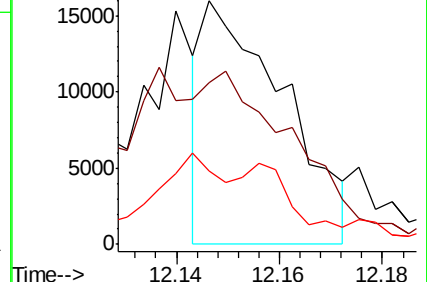
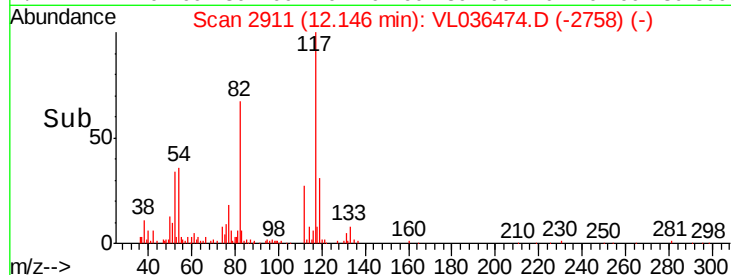
114 31.0 29.0 35.4



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.075 ppbv

RT: 12.72 min Scan# 3089

Delta R.T. 0.00 min

Lab File: VL036474.D

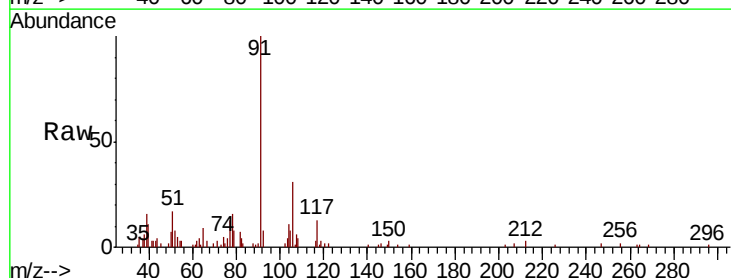
Acq: 25 Mar 2021 4:33

Tgt Ion: 91 Resp: 31675

Ion Ratio Lower Upper

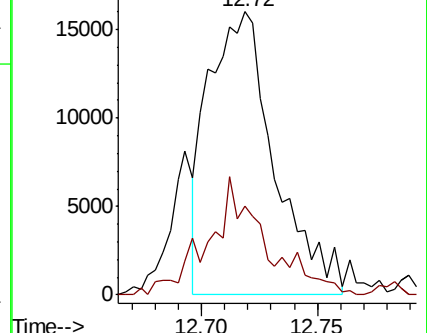
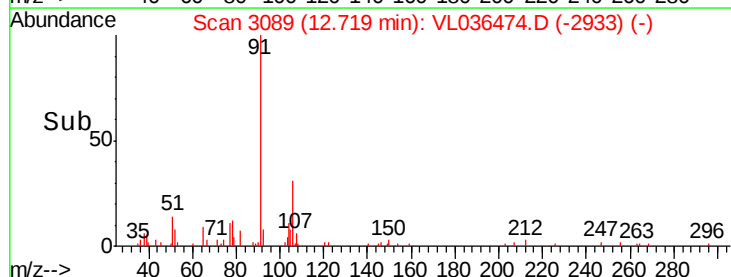
91 100

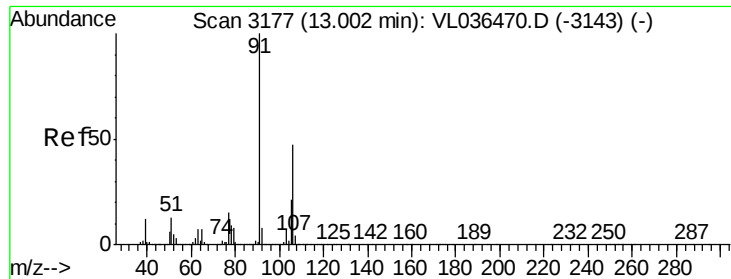
106 32.4 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

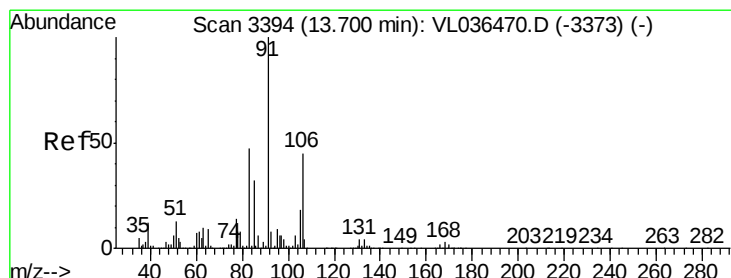
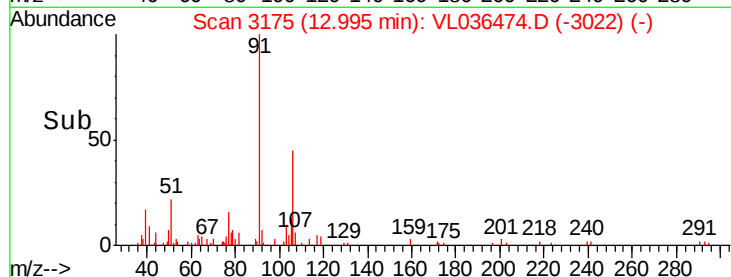
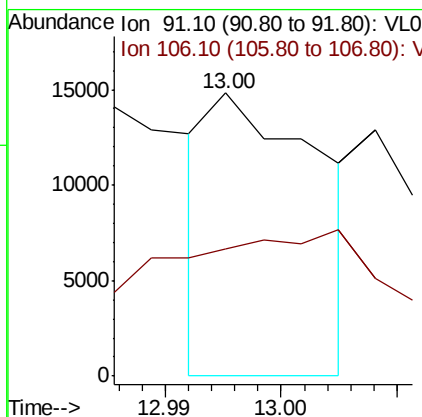
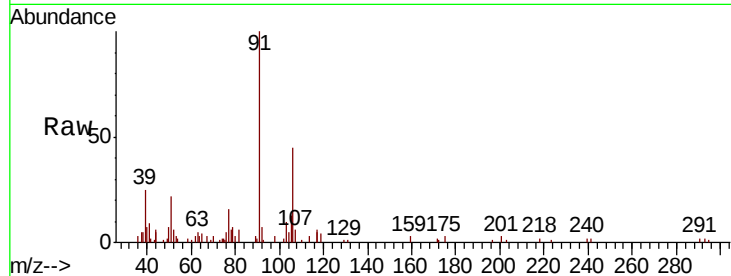
Ion 106.10 (105.80 to 106.80): V





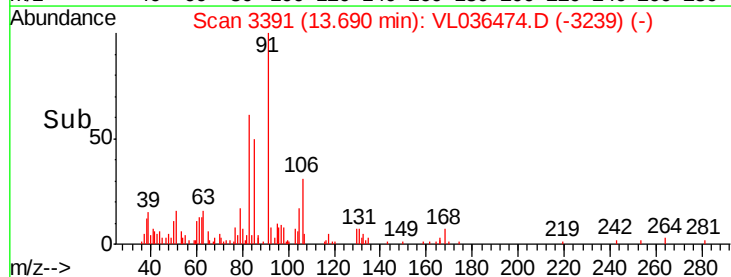
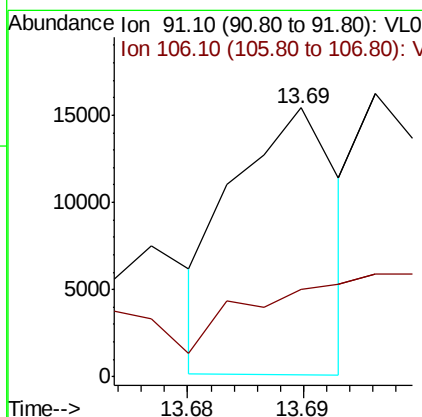
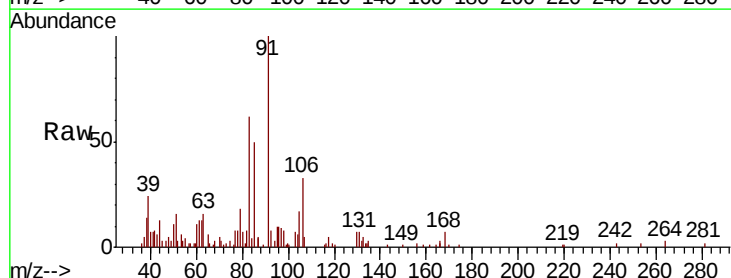
#59
m/p-Xylene
Concen: 0.026 ppbv
RT: 13.00 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 4:33

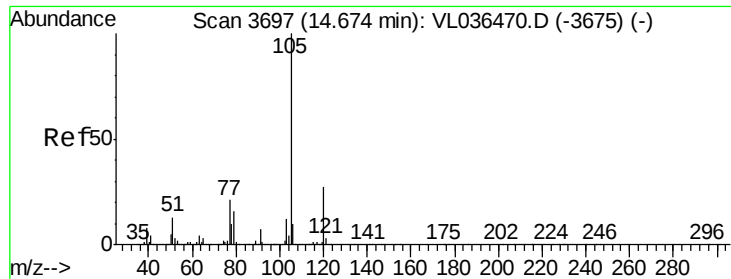
Tot Ion: 91 Resp: 9818
Ion Ratio Lower Upper
91 100
106 0.0 35.2 52.8#



#60
o-Xylene
Concen: 0.027 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL036474.D
Acq: 25 Mar 2021 4:33

Tgt Ion: 91 Resp: 9652
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#





#62

Isopropylbenzene

Concen: 0.071 ppbv

RT: 14.67 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

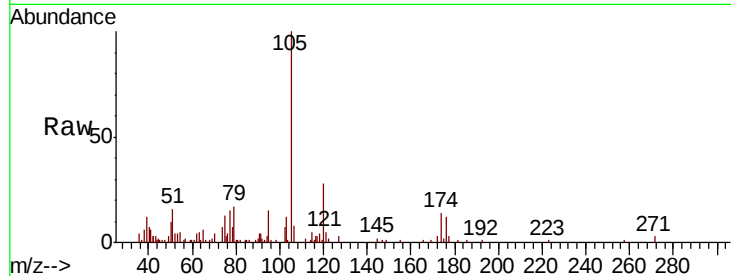
Acq: 25 Mar 2021 4:33

Tot Ion: 105 Resp: 37779

Ion Ratio Lower Upper

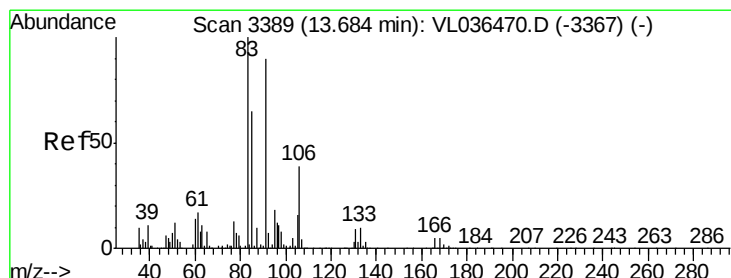
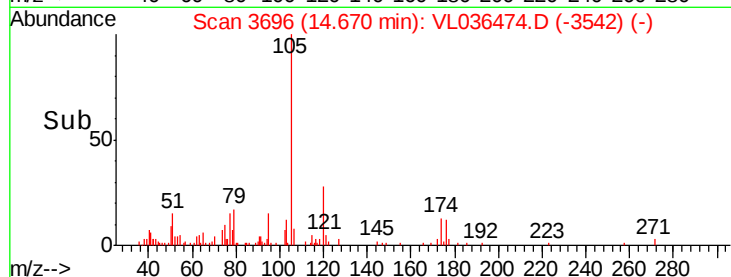
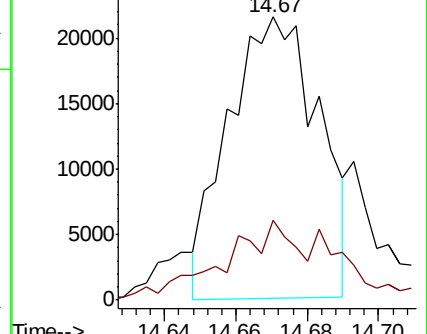
105 100

120 33.8 20.6 31.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.066 ppbv

RT: 13.68 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VL036474.D

Acq: 25 Mar 2021 4:33

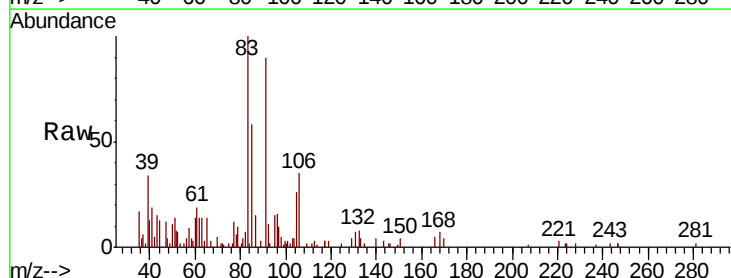
Tgt Ion: 83 Resp: 18252

Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.0#

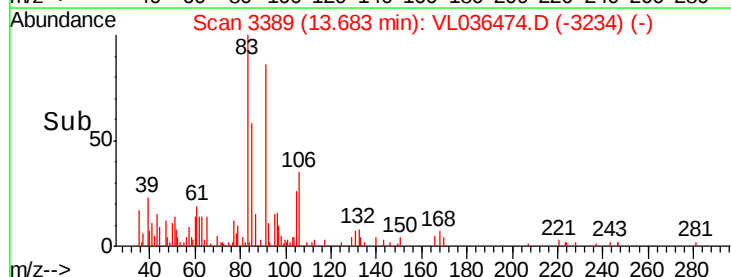
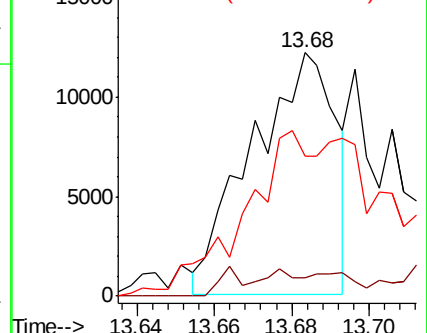
85 135.6 33.2 99.6#

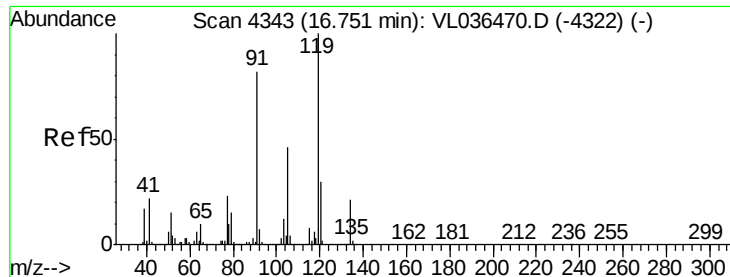


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#65

tert-Butylbenzene

Concen: 0.035 ppbv

RT: 16.75

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 4:33

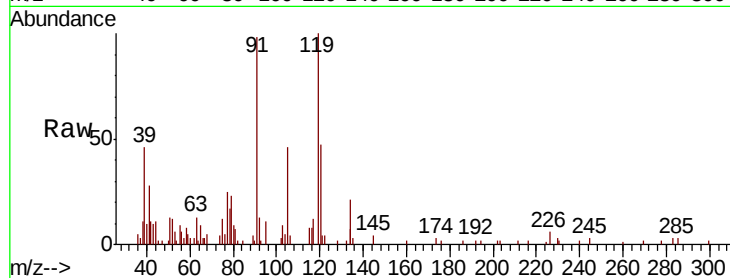
Tot Ion: 119 Resp: 15902

Ion Ratio Lower Upper

119 100

91 0.0 67.5 101.3#

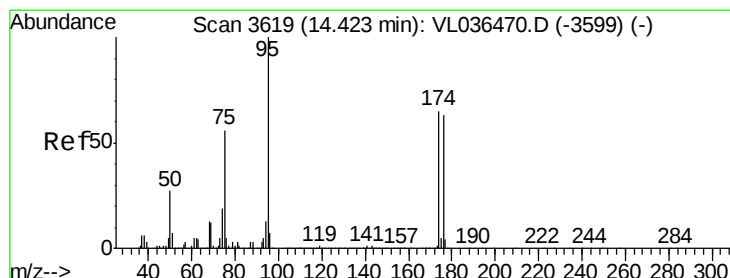
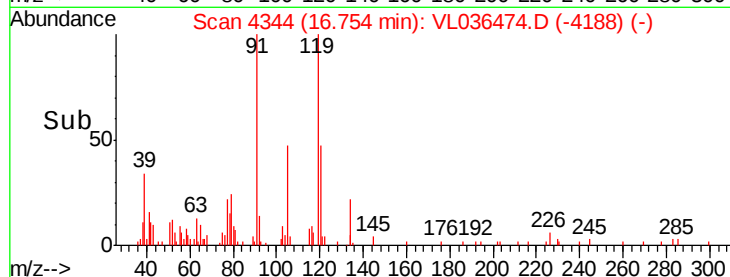
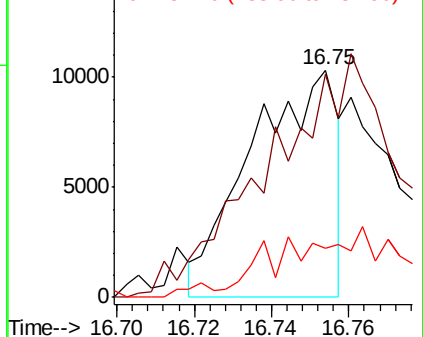
134 0.0 15.8 23.8#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.612 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL036474.D

Acq: 25 Mar 2021 4:33

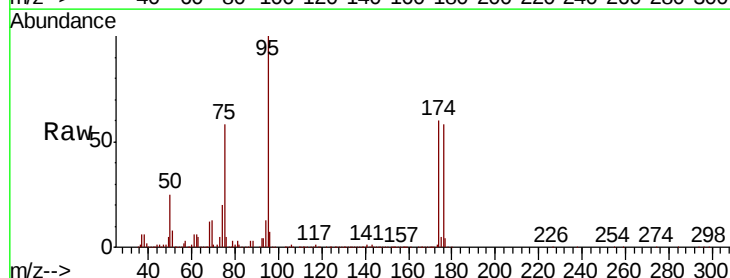
Tgt Ion: 95 Resp: 2607878

Ion Ratio Lower Upper

95 100

174 66.1 51.0 76.6

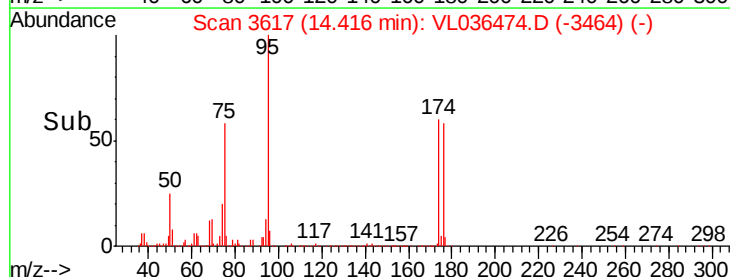
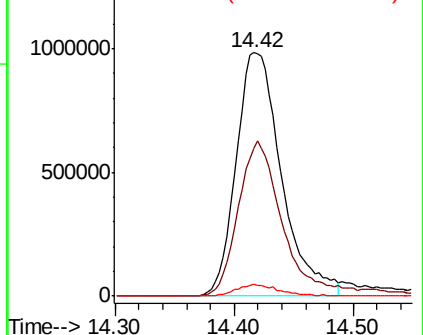
175 4.9 3.9 5.9

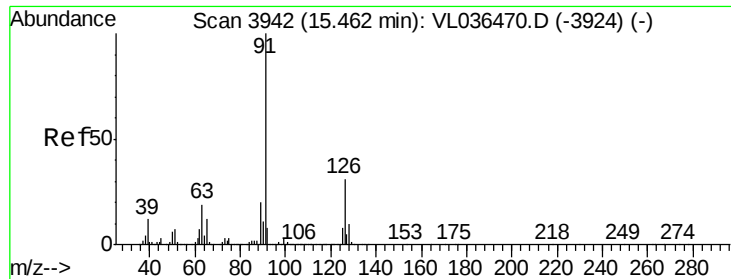


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

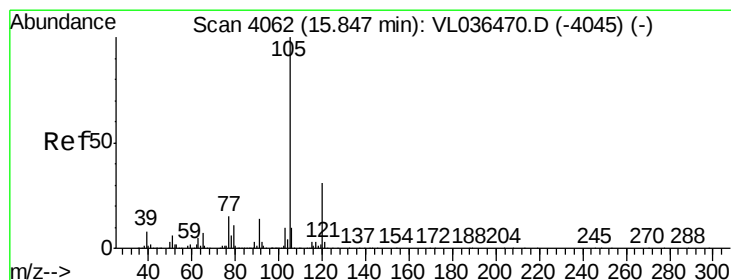
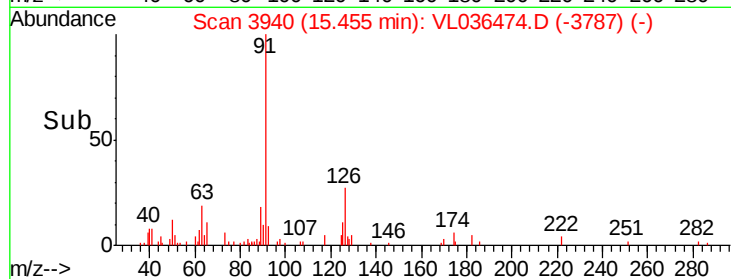
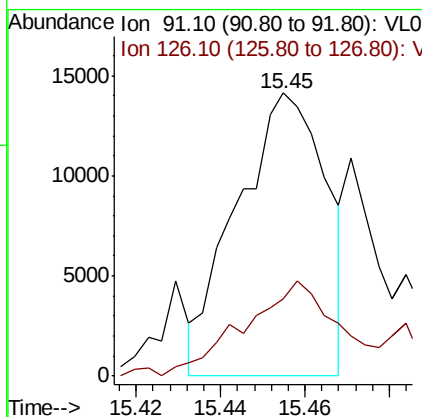
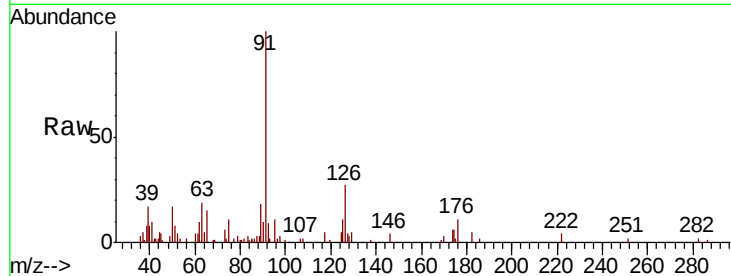
Ion 175.00 (174.70 to 175.70): V





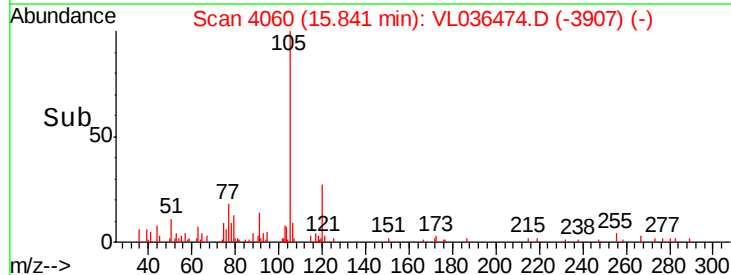
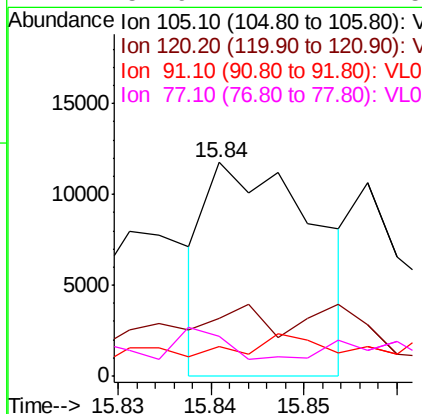
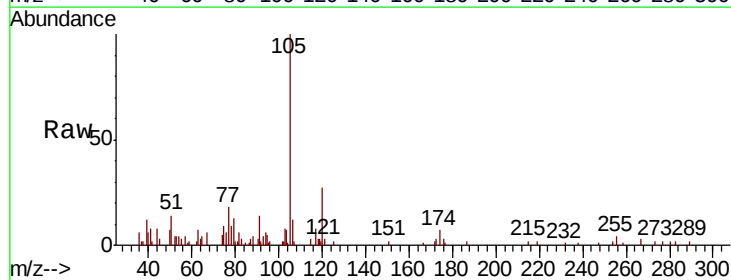
#71
 2-Chlorotoluene
 Concen: 0.052 ppbv
 RT: 15.45 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 4:33

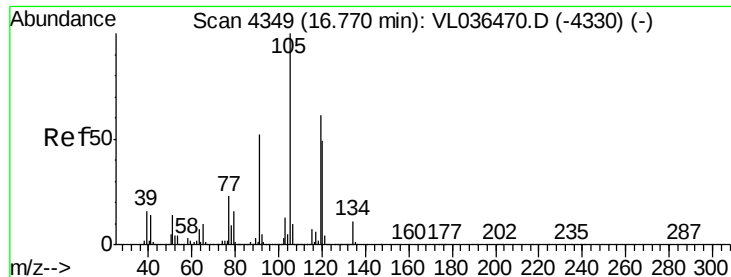
Tot Ion: 91 Resp: 20719
 Ion Ratio Lower Upper
 91 100
 126 49.2 12.1 48.5#



#72
 4-Ethyltoluene
 Concen: 0.025 ppbv
 RT: 15.84 min Scan# 4060
 Delta R.T. -0.01 min
 Lab File: VL036474.D
 Acq: 25 Mar 2021 4:33

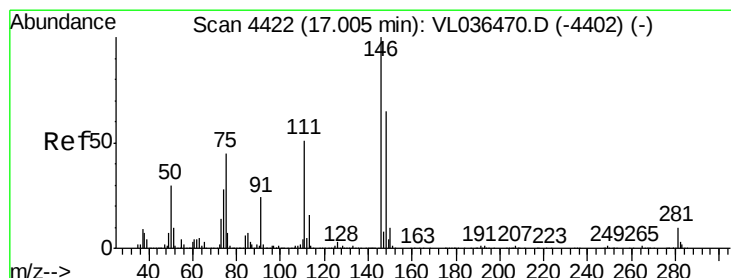
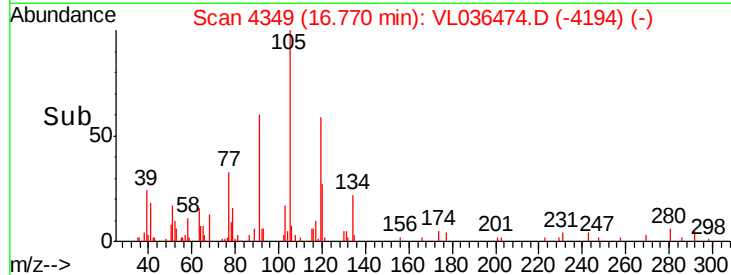
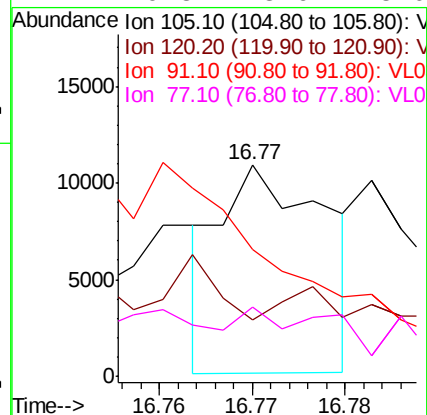
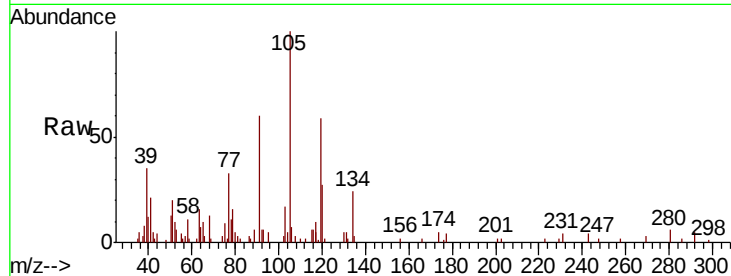
Tgt Ion:105 Resp: 9546
 Ion Ratio Lower Upper
 105 100
 120 92.5 24.0 36.0#
 91 0.0 11.0 16.4#
 77 52.9 11.7 17.5#





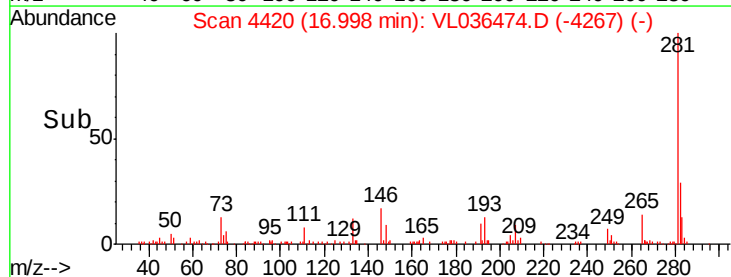
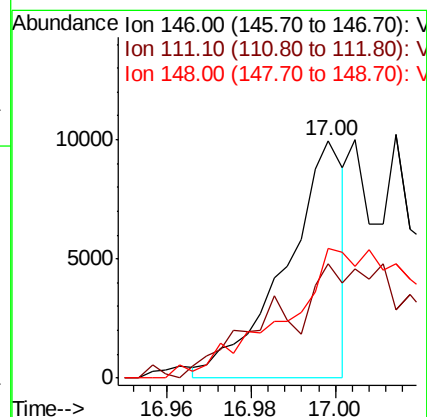
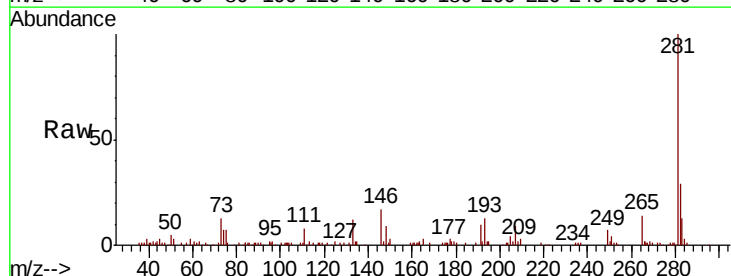
#74
 1,2,4-Trimethylbenzene
 Concen: 0.021 ppbv
 RT: 16.77 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 4:33

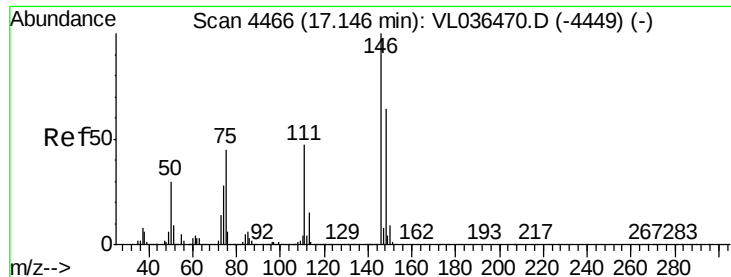
Tot Ion:	105	Resp:	8507
Ion Ratio	Lower	Upper	
105	100		
120	0.0	39.2	58.8#
91	80.5	42.6	64.0#
77	29.8	18.6	28.0#



#75
 1,3-Dichlorobenzene
 Concen: 0.043 ppbv
 RT: 17.00 min Scan# 4420
 Delta R.T.: -0.01 min
 Lab File: VL036474.D
 Acq: 25 Mar 2021 4:33

Tgt Ion:	146	Resp:	9657
Ion Ratio	Lower	Upper	
146	100		
111	125.0	24.6	73.8#
148	173.3	32.3	96.8#





#76

1,4-Dichlorobenzene

Concen: 0.032 ppbv

RT: 17.14 min

Delta R.T. MSVOA_L

Lab File:

Acq: 25 Mar 2021 4:33

ClientSampleId:

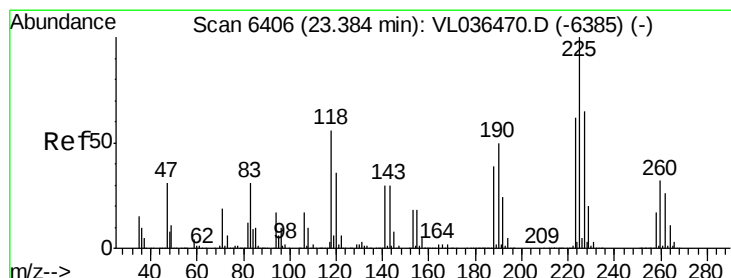
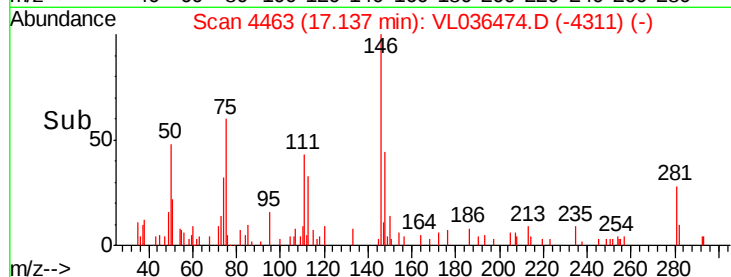
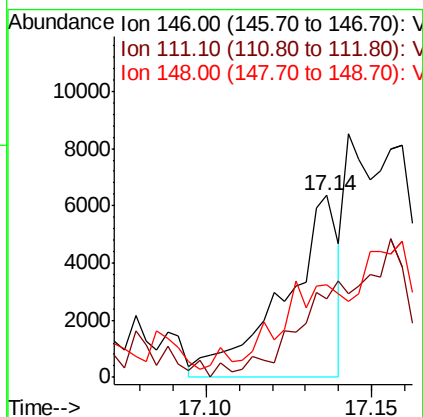
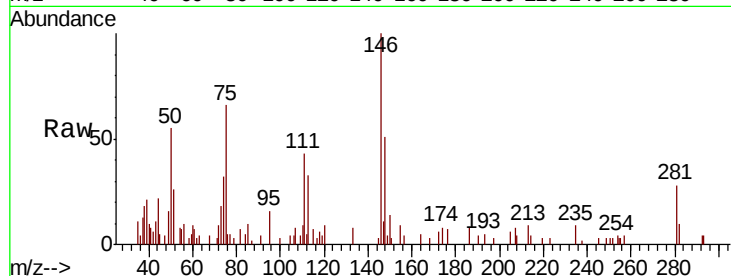
Tot Ion:146 Resp: 7149

Ion Ratio Lower Upper

146 100

111 0.0 24.3 73.0#

148 0.0 32.9 98.6#



#78

Hexachloro-1,3-Butadiene

Concen: 0.027 ppbv

RT: 23.37 min Scan# 6402

Delta R.T. -0.01 min

Lab File: VL036474.D

Acq: 25 Mar 2021 4:33

Tgt Ion:225 Resp: 4690

Ion Ratio Lower Upper

225 100

223 0.0 50.9 76.3#

227 0.0 52.2 78.2#

