

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041321\
 Data File : VL036814.D
 Acq On : 13 Apr 2021 23:18
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 14 04:43:03 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 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1233064	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3202743	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	2513323	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1661040	8.29	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	19287	0.096 ppbv	95
3) Chlorodifluoromethane	2.98	51	34238	0.149 ppbv	94
4) Chloromethane	3.14	50	5089	0.063 ppbv #	80
5) Vinyl Chloride	3.25	62	6842	0.082 ppbv #	77
6) Bromomethane	3.47	94	5966	0.130 ppbv	90
7) Chloroethane	3.56	64	2798	0.097 ppbv #	79
8) Dichlorotetrafluoroethane	3.18	85	26759	0.139 ppbv	86
9) Propene	3.01	41	11398	0.155 ppbv #	55
11) Trichlorofluoromethane	3.94	101	12653	0.062 ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.48	101	16702	0.127 ppbv #	77
13) Ethanol	3.62	45	1696	0.194 ppbv #	34
14) Bromoethene	3.74	108	6119	0.112 ppbv #	62
15) Acetone	3.86	43	46362	0.382 ppbv #	48
16) 1,3-Butadiene	3.32	39	6332	0.075 ppbv #	30
18) 1,1-Dichloroethene	4.28	96	4693	0.081 ppbv	92
20) Methylene Chloride	4.34	84	10129	0.178 ppbv #	76
21) Allyl Chloride	4.41	41	8011	0.083 ppbv #	42
22) trans-1,2-Dichloroethene	4.88	96	2186	0.040 ppbv #	19
23) Vinyl Acetate	5.07	43	33369	0.161 ppbv #	91
24) 1,1-Dichloroethane	5.01	63	11602	0.077 ppbv	99
25) Ethyl Acetate	5.69	43	34552	0.120 ppbv #	86
26) Hexane	5.68	57	9652	0.072 ppbv #	1
27) Carbon Disulfide	4.55	76	5936	0.045 ppbv #	60
28) Methyl tert-Butyl Ether	5.05	73	21037	0.133 ppbv #	77
29) Chloroform	5.74	83	27056	0.126 ppbv	87
30) Cyclohexane	7.13	84	5674	0.052 ppbv #	1
32) 1,1,1-Trichloroethane	6.51	97	9186	0.043 ppbv #	1
34) 2-Butanone	5.26	43	17314	0.111 ppbv #	17
35) Carbon Tetrachloride	7.02	117	17220	0.070 ppbv #	85
37) 1,2-Dichloroethane	6.30	62	10010	0.058 ppbv #	70
38) Trichloroethene	7.83	130	8846	0.077 ppbv #	85
39) 1,2-Dichloropropane	7.17	63	825977	6.893 ppbv #	23
42) Bromodichloromethane	7.79	83	13766	0.058 ppbv	87
43) Methyl Methacrylate	8.02	69	3915	0.039 ppbv #	1
44) 2,2,4-Trimethylpentane	7.86	57	57497	0.111 ppbv	91
47) 1,1,2-Trichloroethane	9.46	97	3906	0.032 ppbv #	77
48) Dibromochloromethane	10.30	129	11218	0.061 ppbv	60
52) Tetrachloroethene	11.21	164	9474	0.087 ppbv	96
53) Toluene	9.80	91	30199	0.096 ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.12	131	9561	0.084 ppbv #	25
57) Chlorobenzene	12.14	112	27378	0.128 ppbv #	91

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

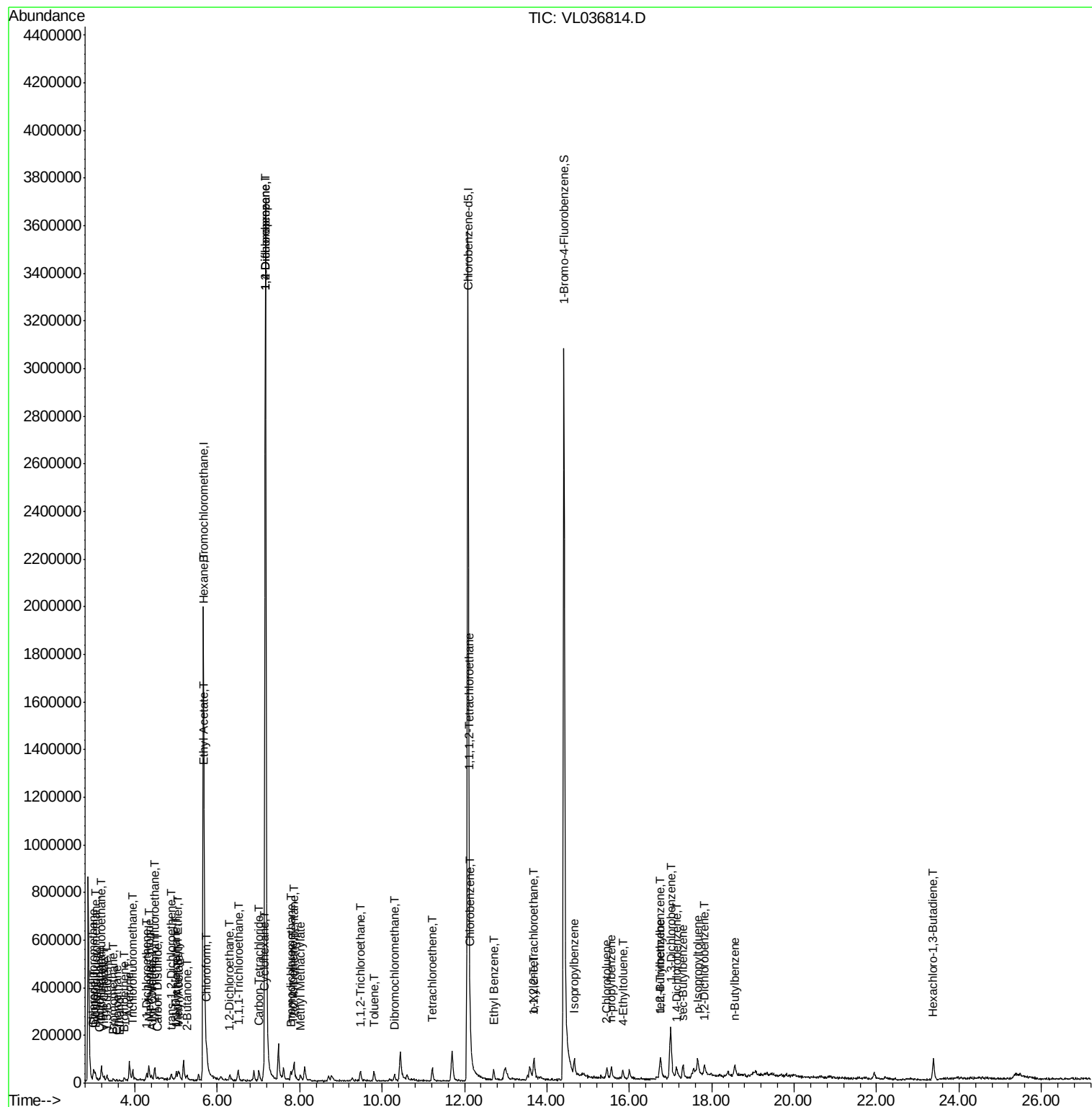
58) Ethyl Benzene	12.71	91	30381	0.083	ppbv	95
60) o-Xylene	13.69	91	11836	0.038	ppbv #	1
62) Isopropylbenzene	14.66	105	38258	0.092	ppbv #	77
63) 1,1,2,2-Tetrachloroethane	13.67	83	10049	0.043	ppbv #	18
64) n-propylbenzene	15.56	120	6212	0.061	ppbv #	1
65) tert-Butylbenzene	16.75	119	20988	0.058	ppbv #	9
67) sec-Butylbenzene	17.29	105	16913	0.033	ppbv #	2
69) p-Isopropyltoluene	17.65	119	29419	0.074	ppbv #	54
70) n-Butylbenzene	18.55	91	12833	0.031	ppbv #	33
71) 2-Chlorotoluene	15.46	91	19512	0.063	ppbv #	37
72) 4-Ethyltoluene	15.83	105	11198	0.033	ppbv #	6
74) 1,2,4-Trimethylbenzene	16.76	105	10395	0.031	ppbv #	75
75) 1,3-Dichlorobenzene	17.00	146	12848	0.068	ppbv #	11
76) 1,4-Dichlorobenzene	17.13	146	7290	0.039	ppbv #	22
77) 1,2-Dichlorobenzene	17.82	146	10051	0.056	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.36	225	5033	0.031	ppbv #	18

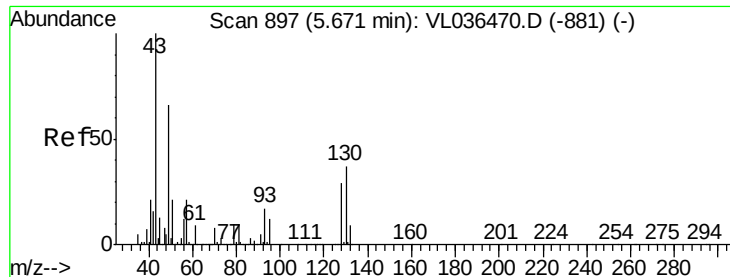
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

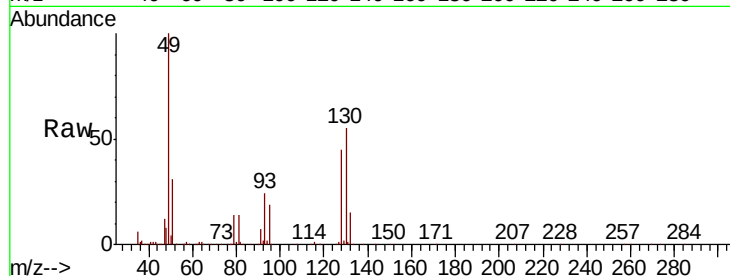
Tot Ion: 49 Resp: 1233064

Ion Ratio Lower Upper

49 100

128 49.5 23.5 70.6

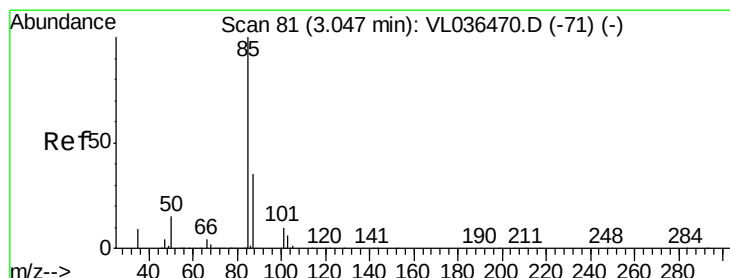
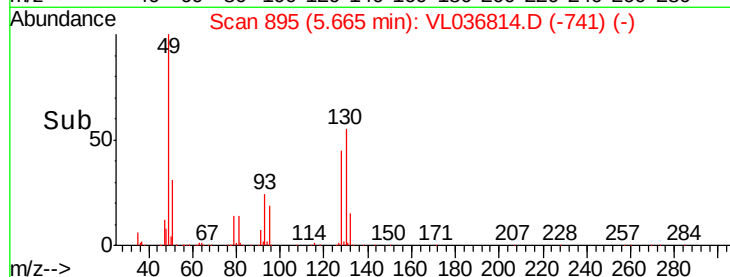
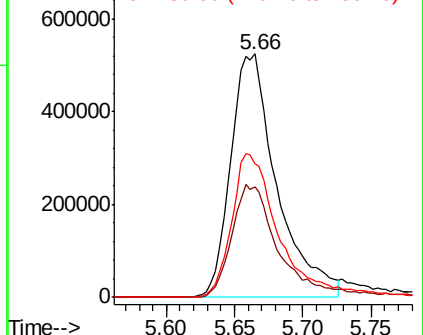
130 63.1 29.1 87.4



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: 0.096 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL036814.D

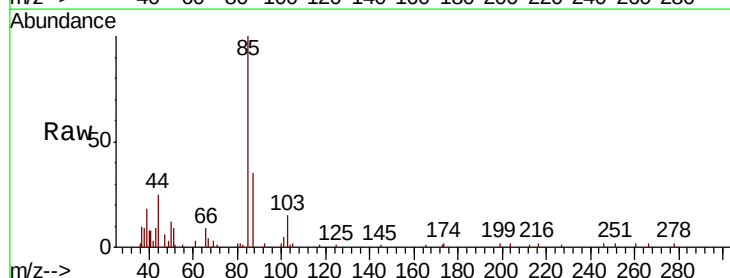
Acq: 13 Apr 2021 23:18

Tgt Ion: 85 Resp: 19287

Ion Ratio Lower Upper

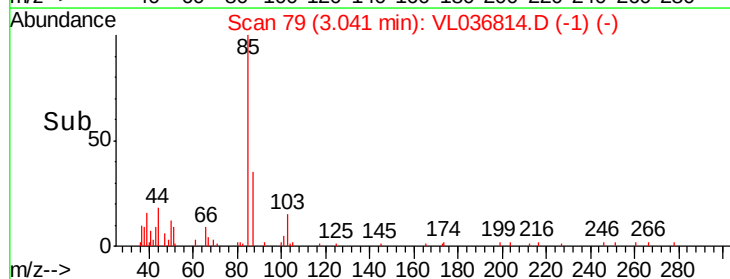
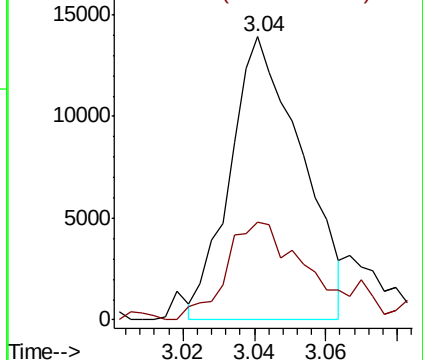
85 100

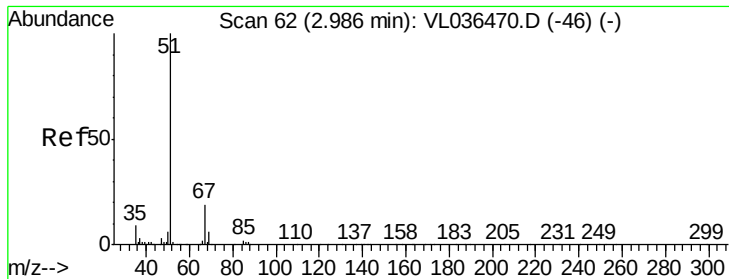
87 31.7 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.149 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

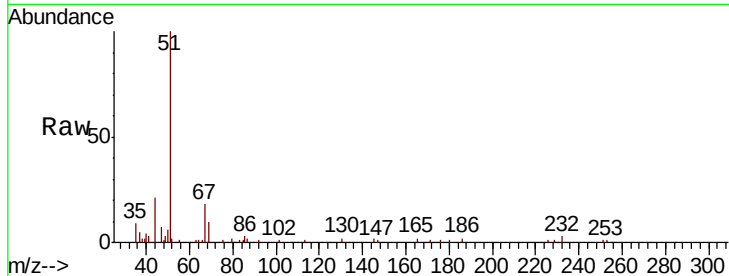
Acq: 13 Apr 2021 23:18

Tot Ion: 51 Resp: 34238

Ion Ratio Lower Upper

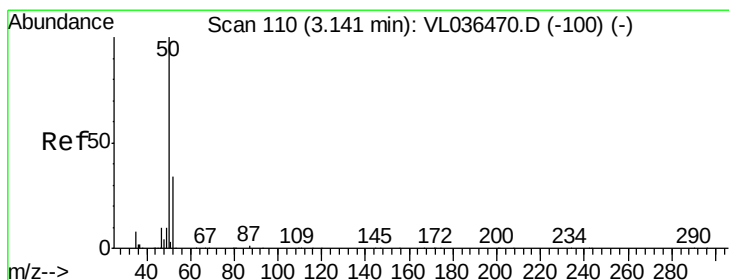
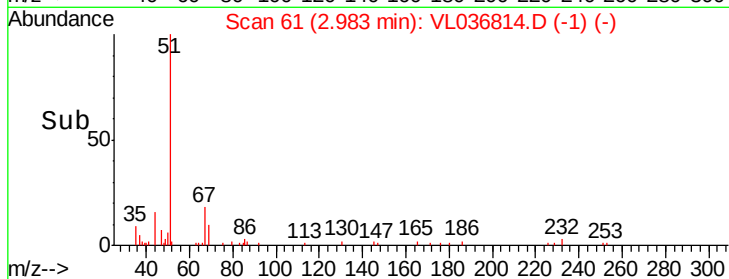
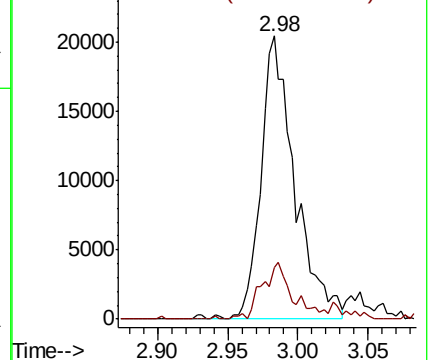
51 100

67 21.2 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: 0.063 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL036814.D

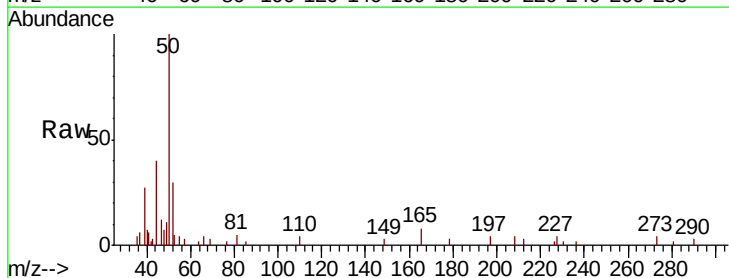
Acq: 13 Apr 2021 23:18

Tgt Ion: 50 Resp: 5089

Ion Ratio Lower Upper

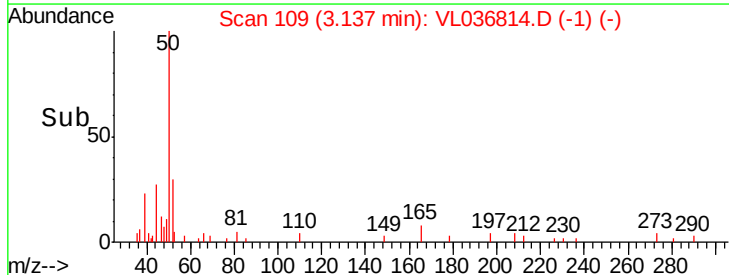
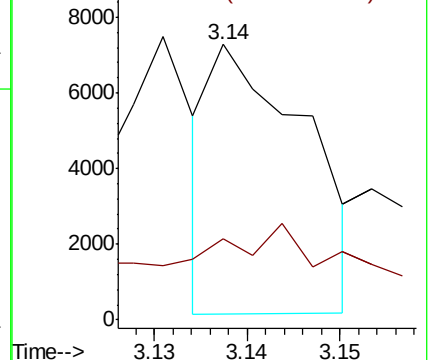
50 100

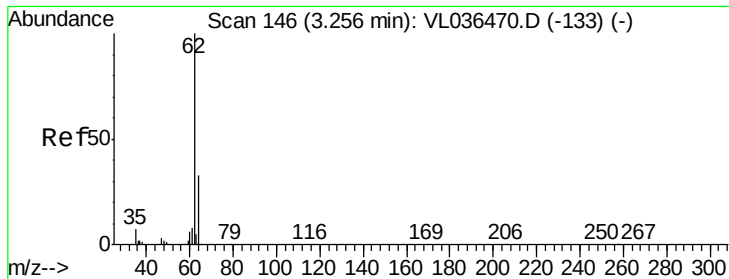
52 22.4 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.082 ppbv

RT: 3.25 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

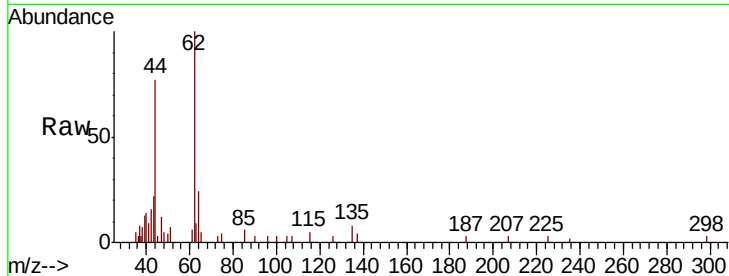
Acq: 13 Apr 2021 23:18

Tot Ion: 62 Resp: 6842

Ion Ratio Lower Upper

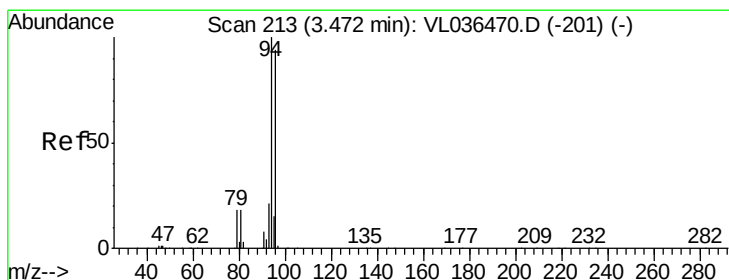
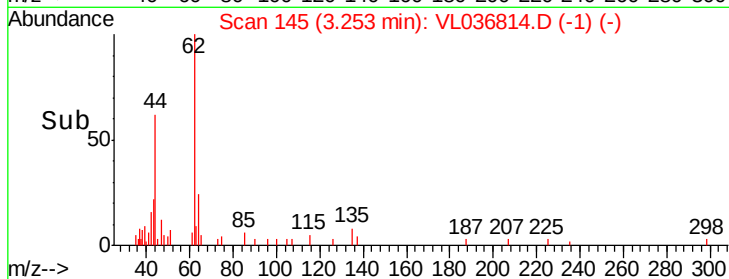
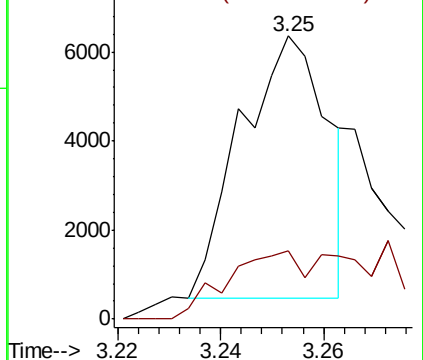
62 100

64 20.0 26.4 39.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.130 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL036814.D

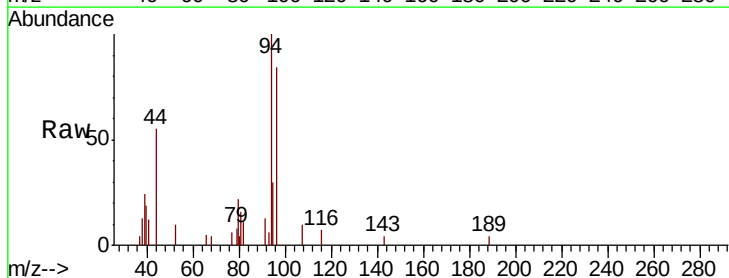
Acq: 13 Apr 2021 23:18

Tgt Ion: 94 Resp: 5966

Ion Ratio Lower Upper

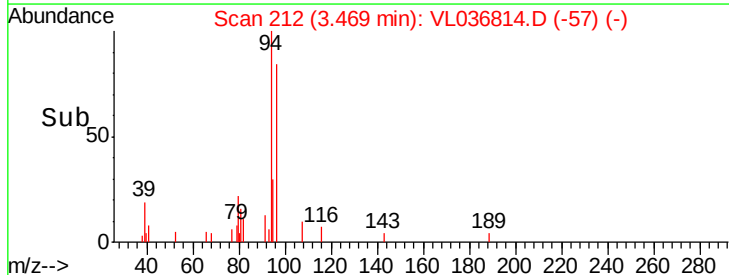
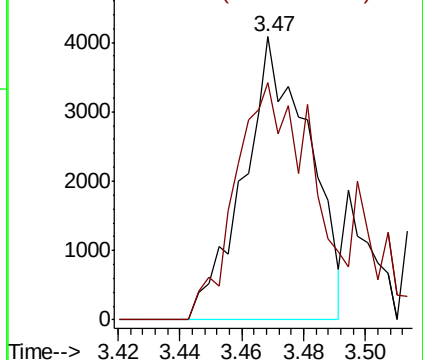
94 100

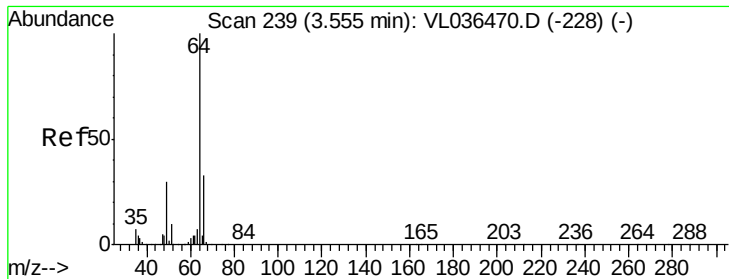
96 83.7 74.9 112.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.097 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

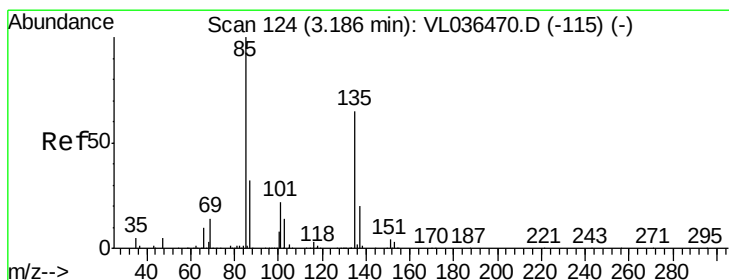
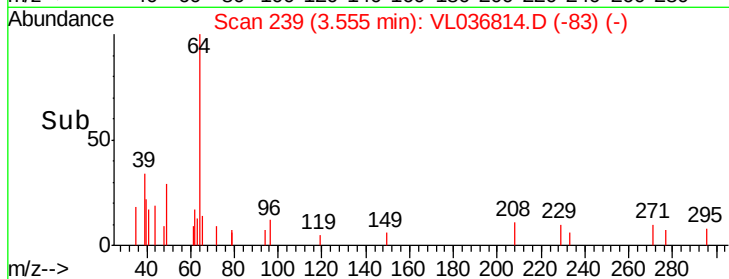
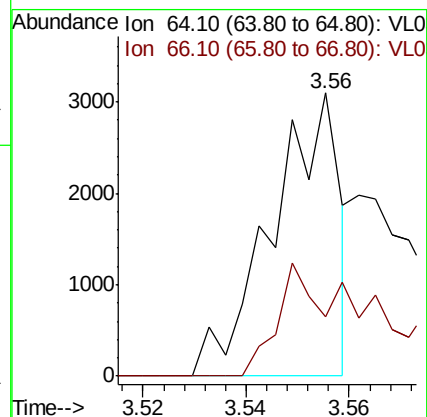
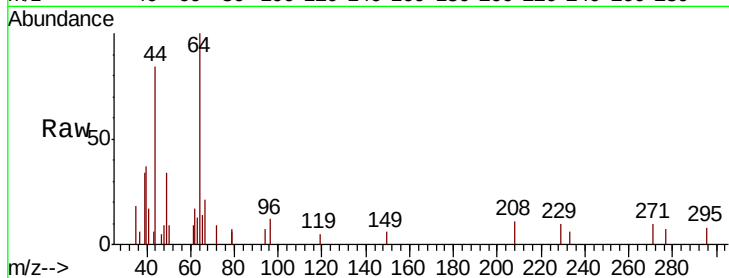
Acq: 13 Apr 2021 23:18

Tot Ion: 64 Resp: 2798

Ion Ratio Lower Upper

64 100

66 21.0 26.2 39.2#



#8

Dichlorotetrafluoroethane

Concen: 0.139 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL036814.D

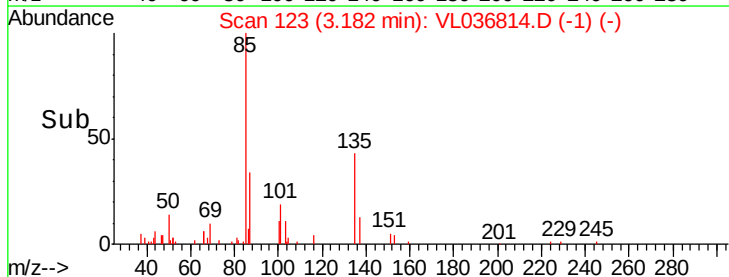
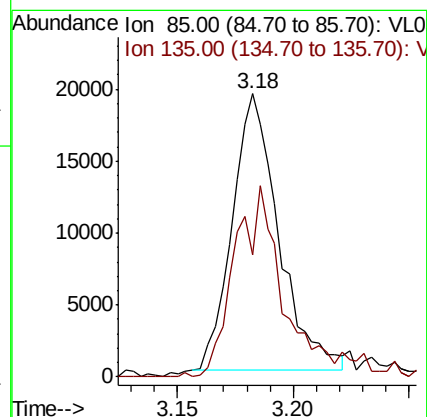
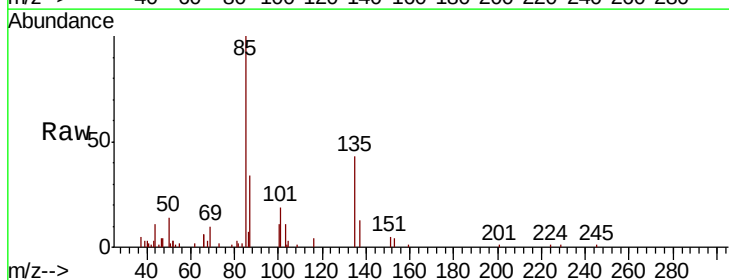
Acq: 13 Apr 2021 23:18

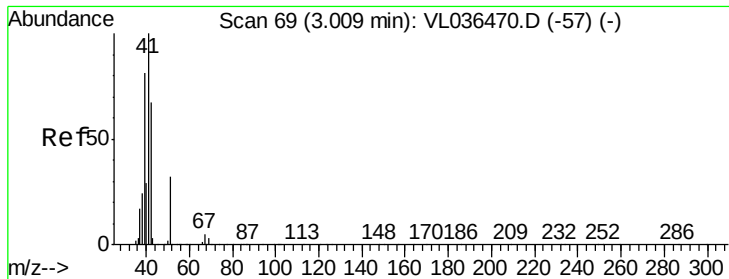
Tgt Ion: 85 Resp: 26759

Ion Ratio Lower Upper

85 100

135 79.2 54.3 81.5





#9

Propene

Concen: 0.155 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

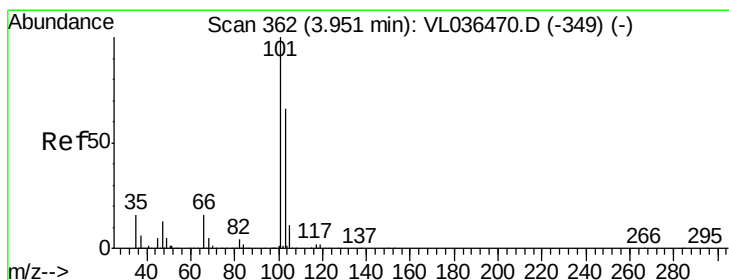
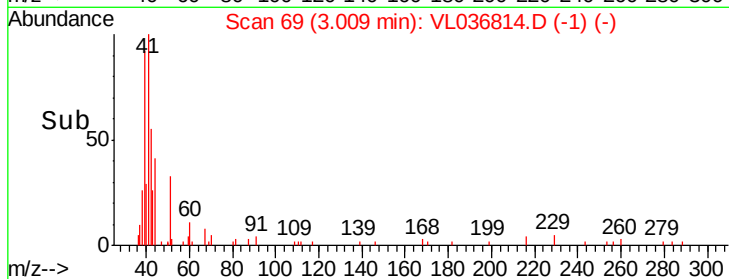
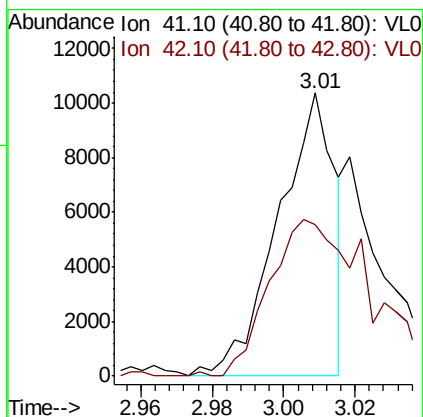
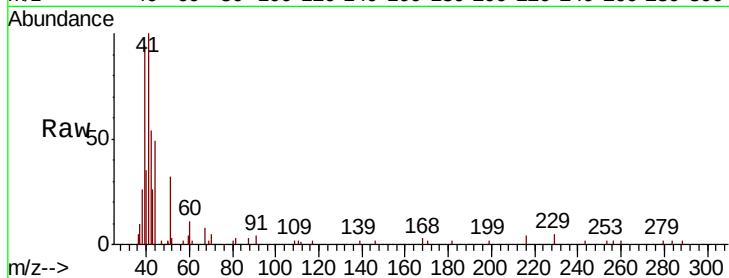
Acq: 13 Apr 2021 23:18

Tot Ion: 41 Resp: 11398

Ion Ratio Lower Upper

41 100

42 108.8 57.0 85.4#



#11

Trichlorofluoromethane

Concen: 0.062 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL036814.D

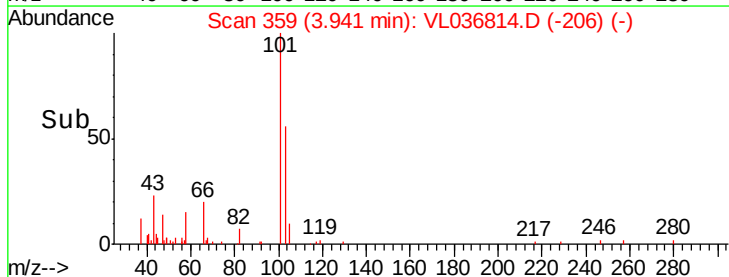
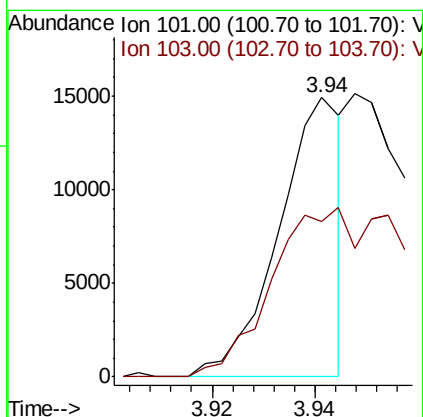
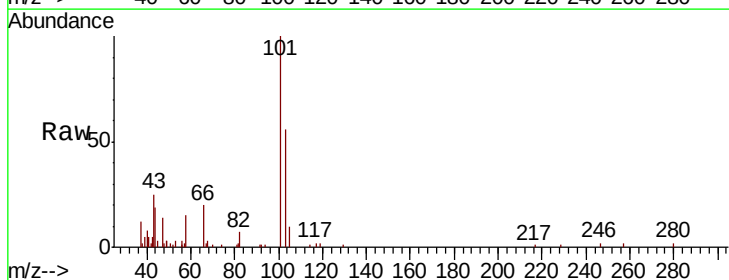
Acq: 13 Apr 2021 23:18

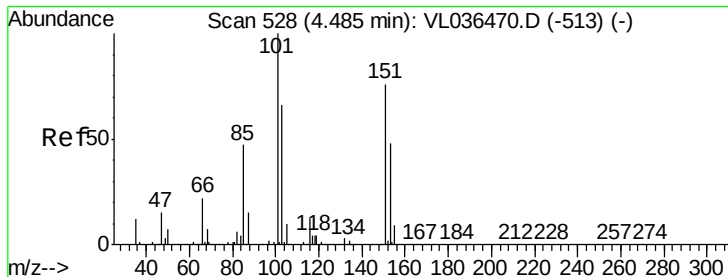
Tgt Ion: 101 Resp: 12653

Ion Ratio Lower Upper

101 100

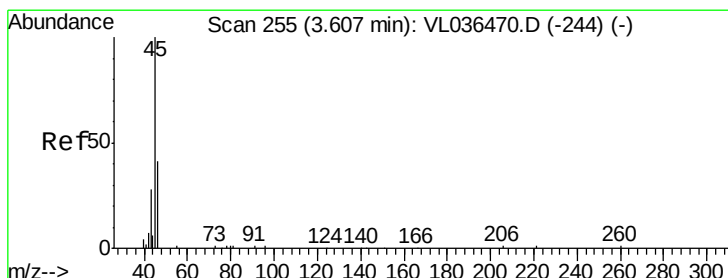
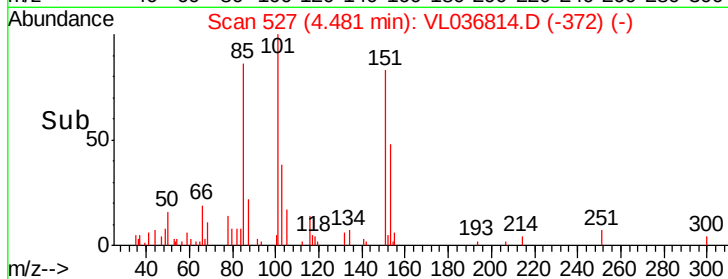
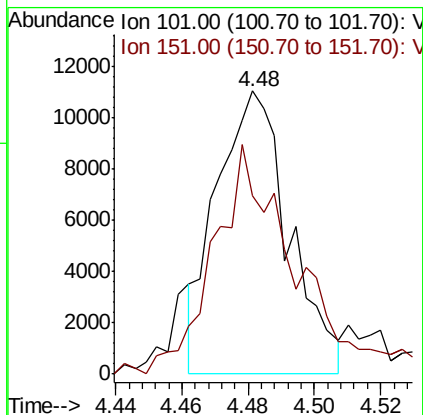
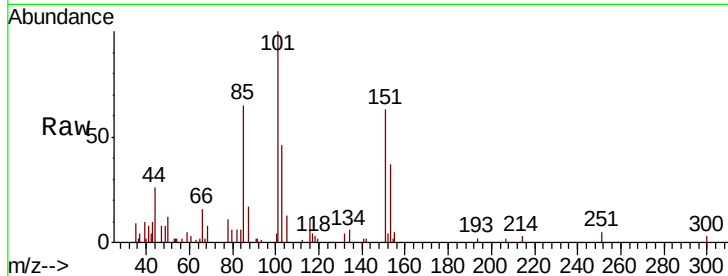
103 55.7 52.5 78.7





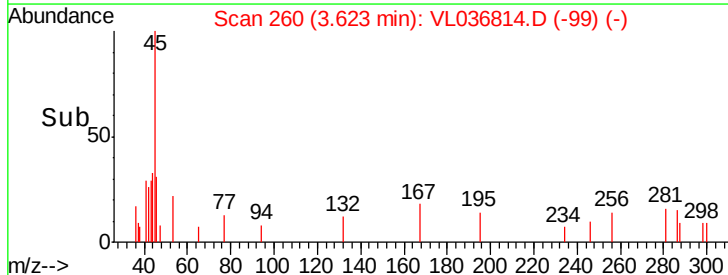
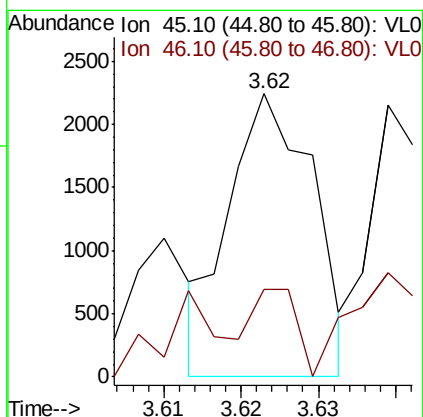
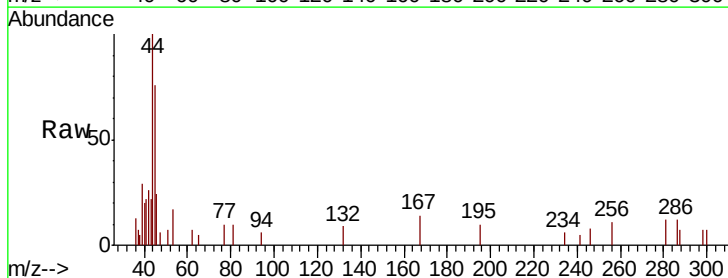
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.127 ppbv
 RT: 4.48
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 13 Apr 2021 23:18

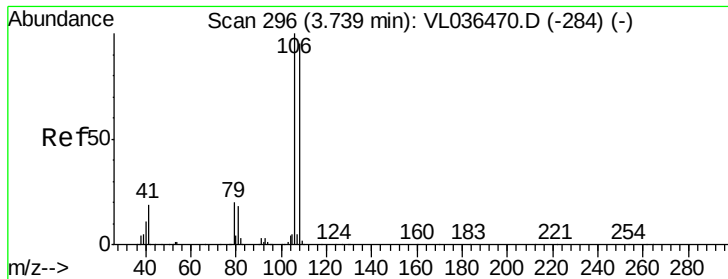
Tot Ion: 101 Resp: 16702
 Ion Ratio Lower Upper
 101 100
 151 95.6 60.9 91.3#



#13
 Ethanol
 Concen: 0.194 ppbv
 RT: 3.62 min Scan# 260
 Delta R.T. 0.02 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

Tgt Ion: 45 Resp: 1696
 Ion Ratio Lower Upper
 45 100
 46 0.0 16.6 66.2#





#14

Bromoethene

Concen: 0.112 ppbv

RT: 3.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

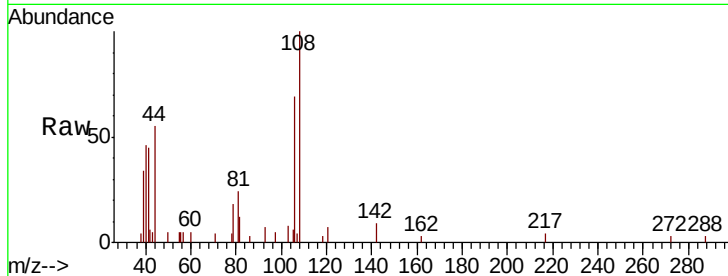
Tot Ion: 108 Resp: 6119

Ion Ratio Lower Upper

108 100

106 151.7 89.0 133.6#

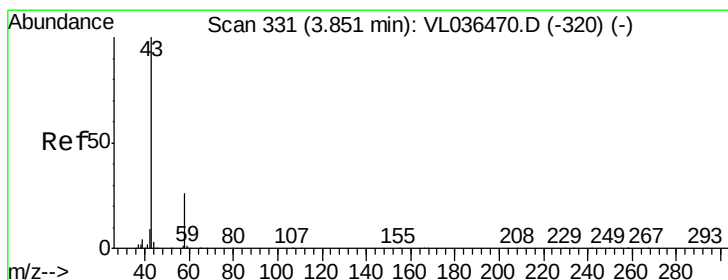
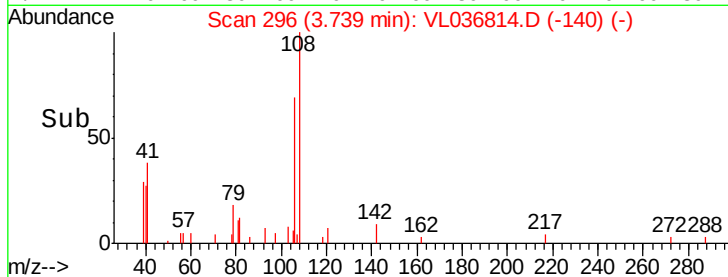
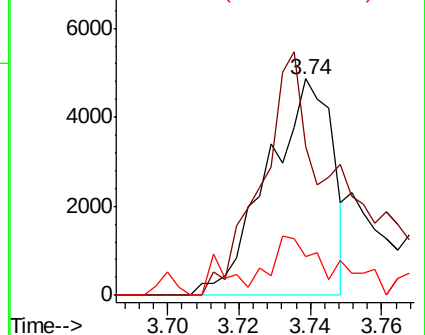
79 38.1 16.6 25.0#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VLO



#15

Acetone

Concen: 0.382 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL036814.D

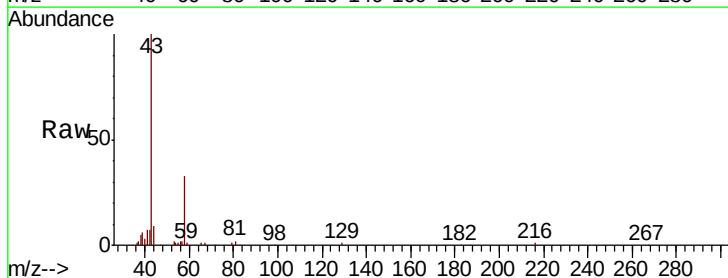
Acq: 13 Apr 2021 23:18

Tgt Ion: 43 Resp: 46362

Ion Ratio Lower Upper

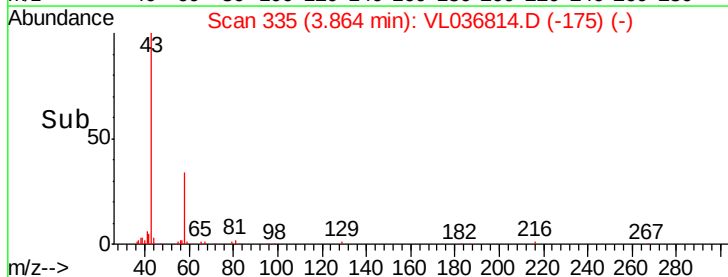
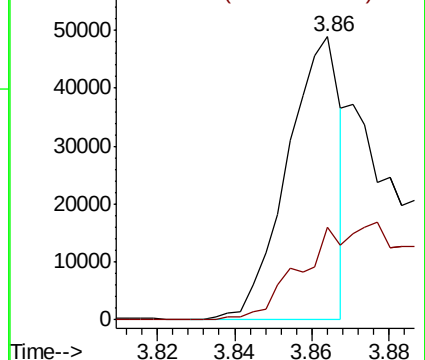
43 100

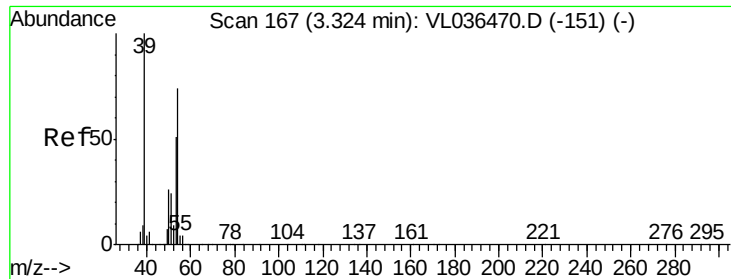
58 0.0 21.2 31.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

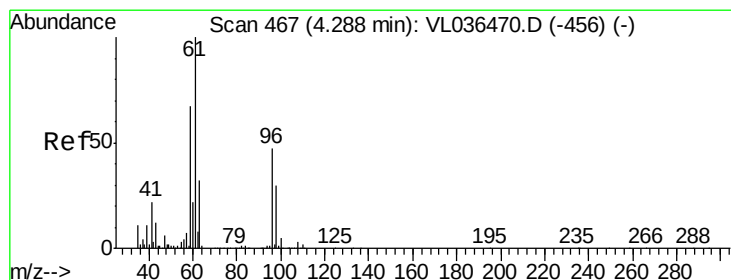
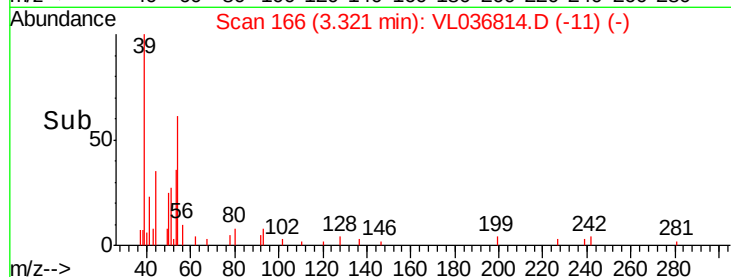
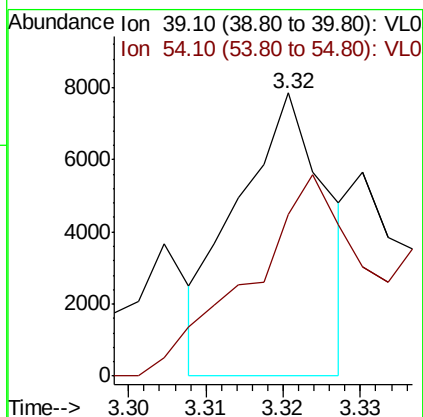
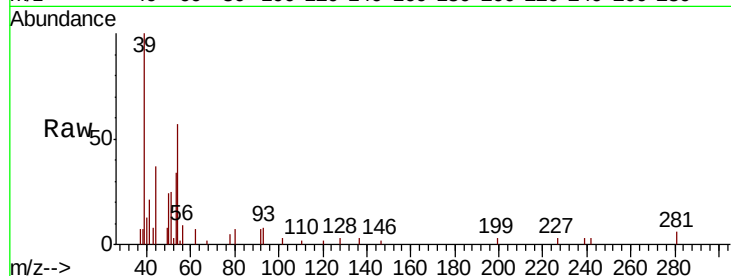
Ion 58.10 (57.80 to 58.80): VL0





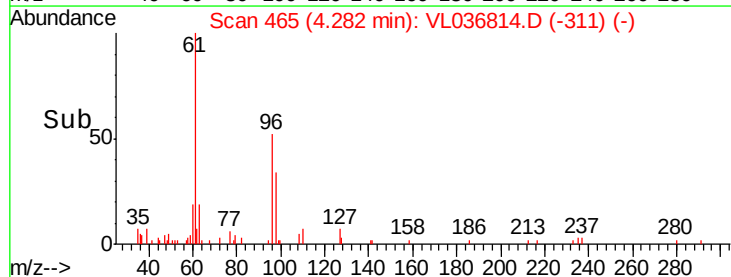
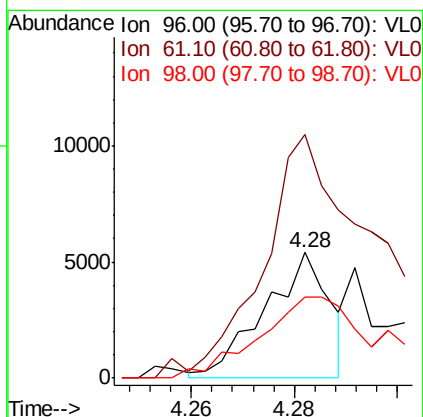
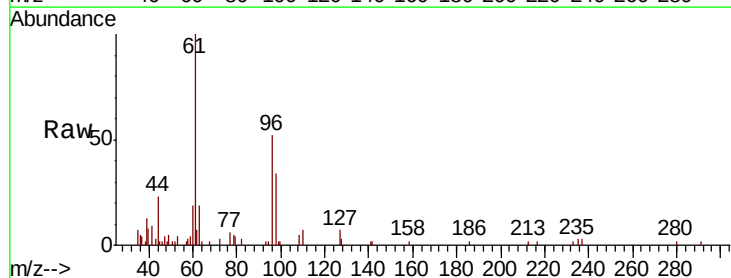
#16
 1,3-Butadiene
 Concen: 0.075 ppbv
 RT: 3.32 Instrument :
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 23:18

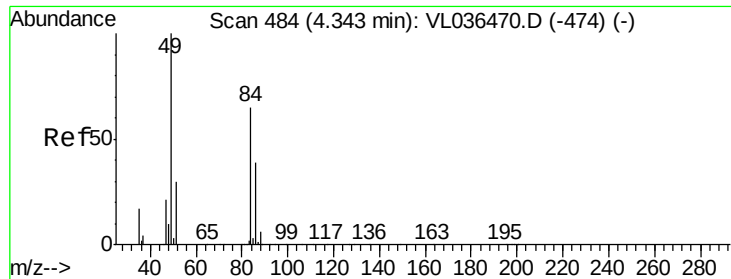
Tot Ion: 39 Resp: 6332
 Ion Ratio Lower Upper
 39 100
 54 132.8 58.8 88.2#



#18
 1,1-Dichloroethene
 Concen: 0.081 ppbv
 RT: 4.28 min Scan# 465
 Delta R.T. -0.01 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

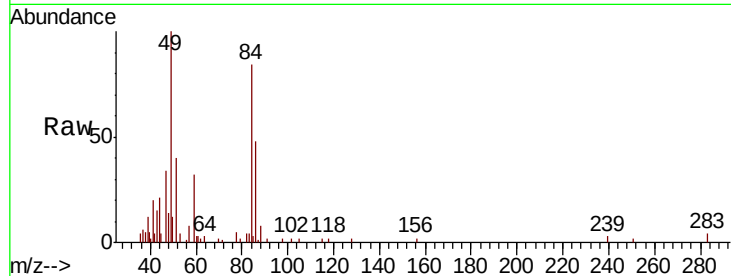
Tgt Ion: 96 Resp: 4693
 Ion Ratio Lower Upper
 96 100
 61 196.9 168.6 253.0
 98 59.9 50.8 76.2





#20
Methylene Chloride
Concen: 0.178 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 Apr 2021 23:18

Tot Ion	84	Resp	10129
Ion	Ratio	Lower	Upper
84	100		
49	108.5	122.9	184.3#
51	42.2	36.9	55.3
86	51.4	48.2	72.4



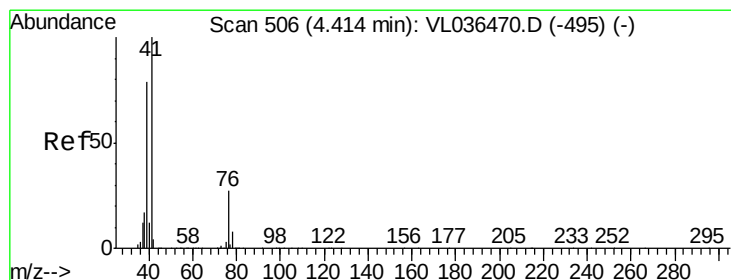
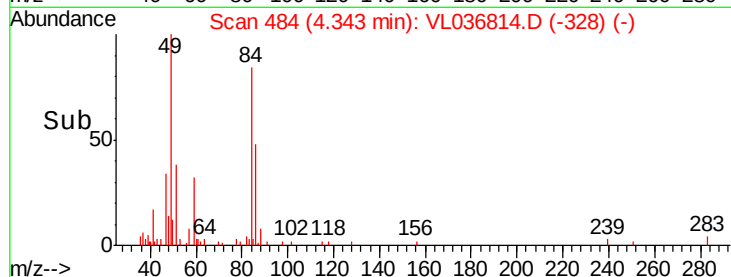
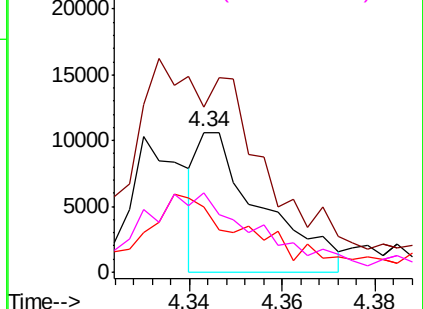
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

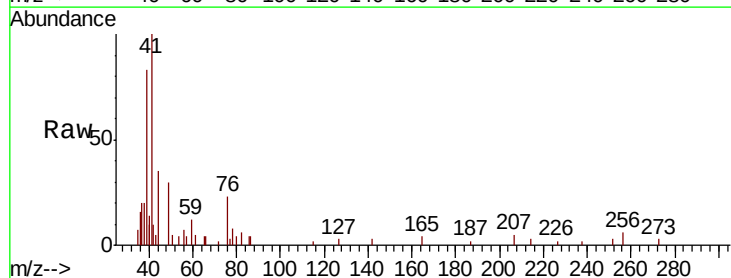
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 0.083 ppbv
RT: 4.41 min Scan# 504
Delta R.T. -0.01 min
Lab File: VL036814.D
Acq: 13 Apr 2021 23:18

Tgt Ion	41	Resp	8011
Ion	Ratio	Lower	Upper
41	100		
76	37.4	22.9	34.3#
39	149.0	67.3	100.9#

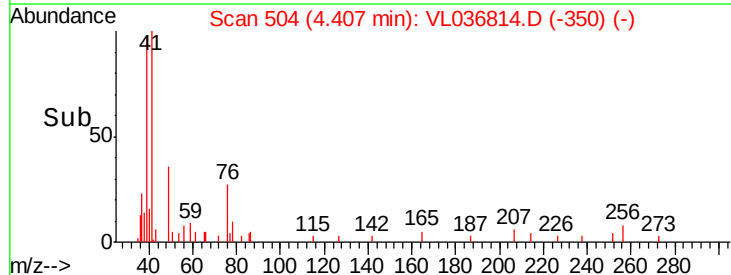
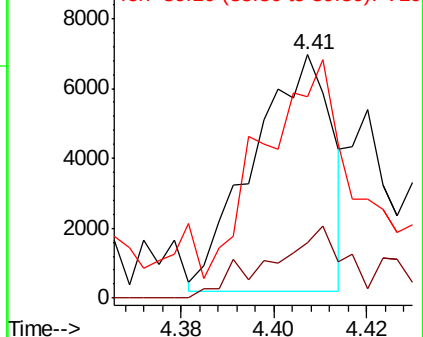


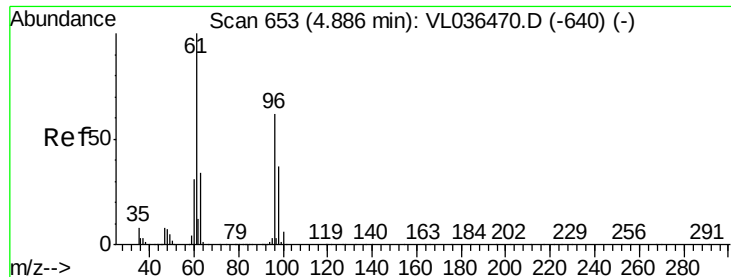
Abundance

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: 0.040 ppbv

RT: 4.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

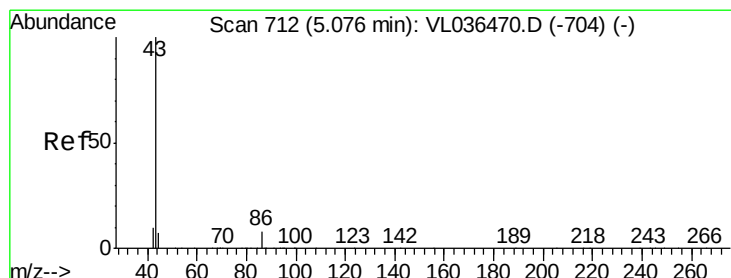
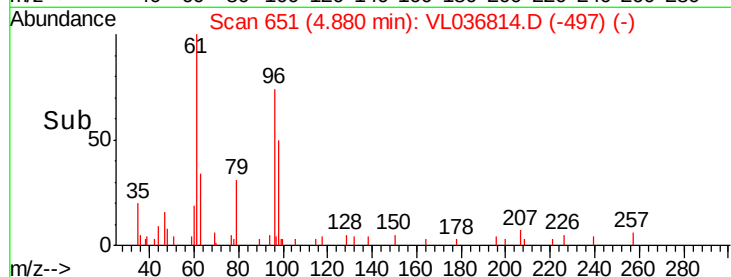
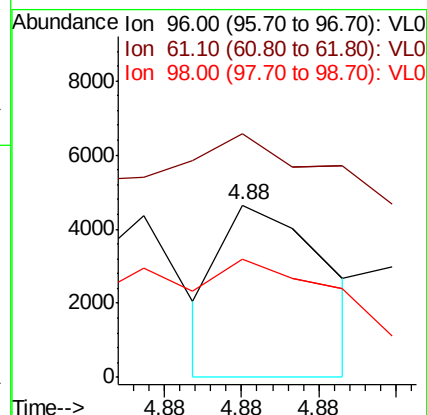
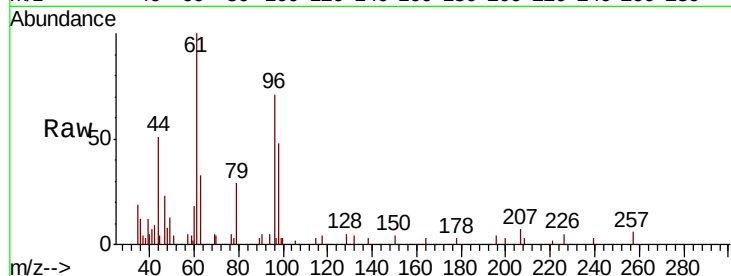
Tot Ion: 96 Resp: 2186

Ion Ratio Lower Upper

96 100

61 32.6 129.4 194.0#

98 32.1 48.2 72.4#



#23

Vinyl Acetate

Concen: 0.161 ppbv

RT: 5.07 min Scan# 710

Delta R.T. -0.01 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

Tgt Ion: 43 Resp: 33369

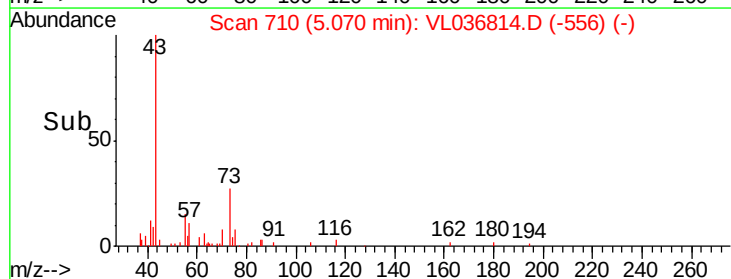
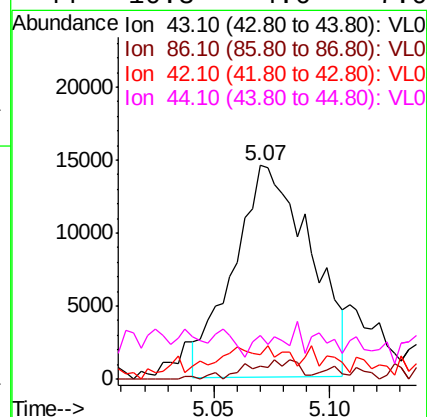
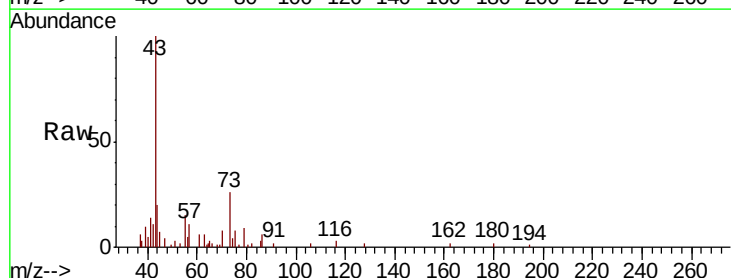
Ion Ratio Lower Upper

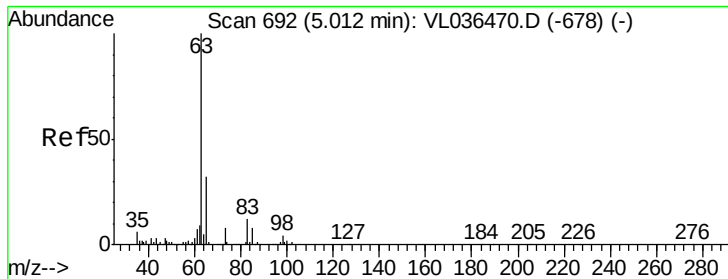
43 100

86 5.2 5.4 8.0#

42 6.7 8.5 12.7#

44 10.3 4.6 7.0#





#24

1,1-Dichloroethane

Concen: 0.077 ppbv

RT: 5.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

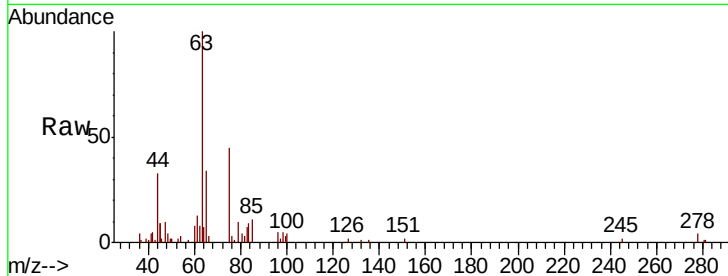
Tot Ion: 63 Resp: 11602

Ion Ratio Lower Upper

63 100

98 4.3 2.1 6.2

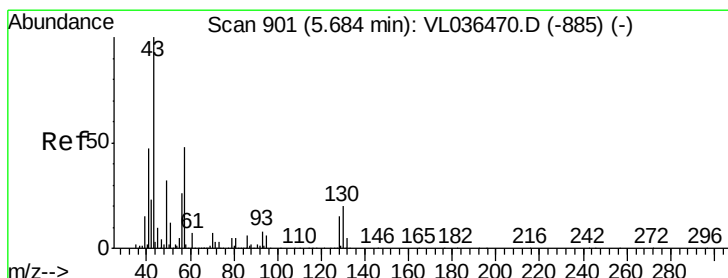
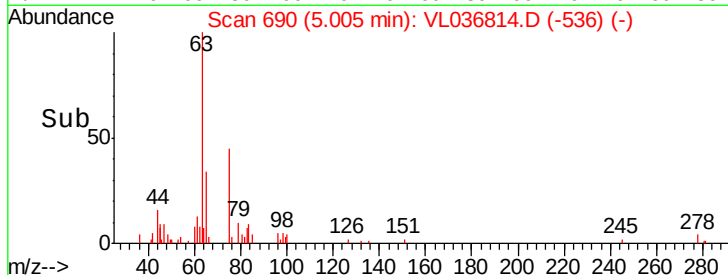
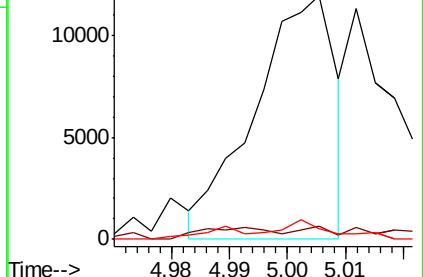
100 2.8 0.9 2.8



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.120 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

Tgt Ion: 43 Resp: 34552

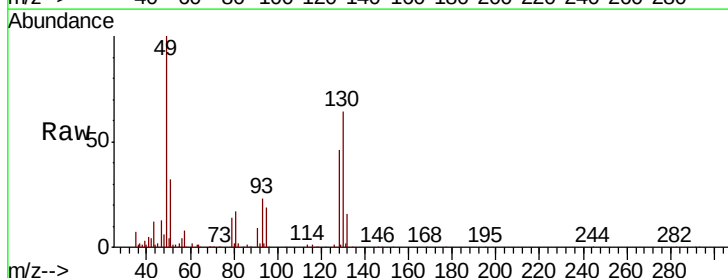
Ion Ratio Lower Upper

43 100

45 14.3 7.9 11.9#

61 14.2 7.4 11.2#

70 0.0 5.1 7.7#

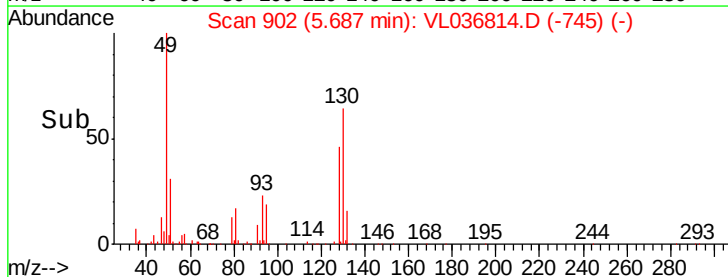
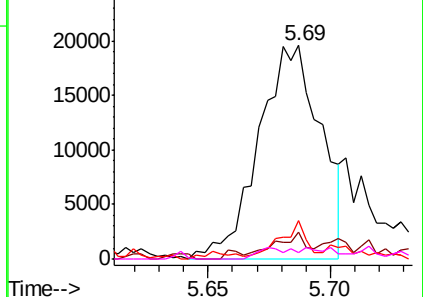


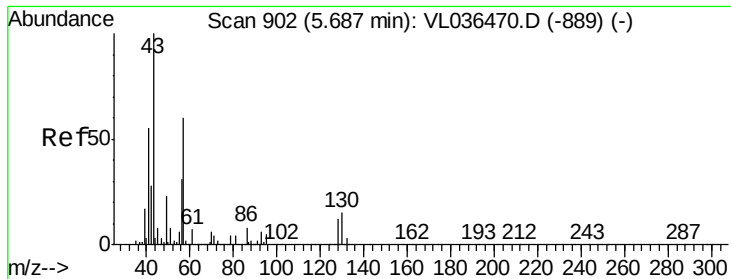
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

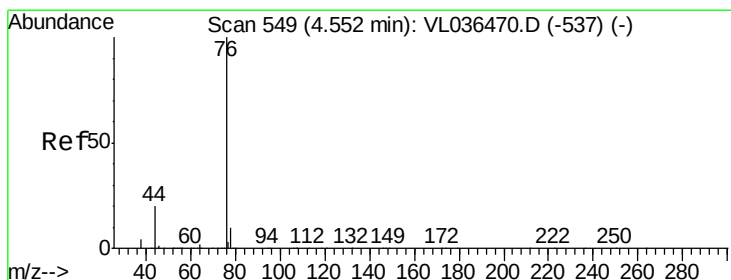
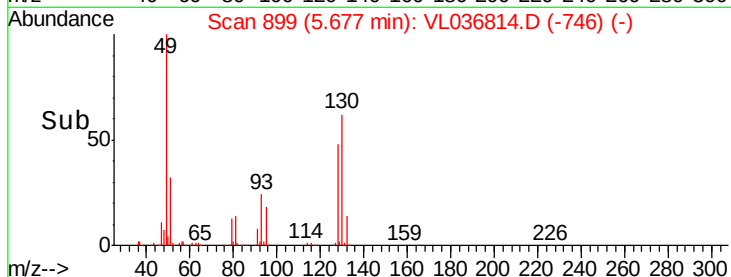
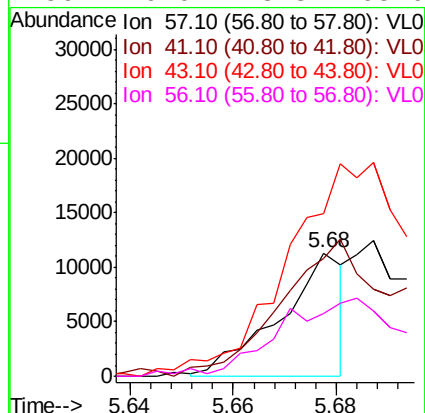
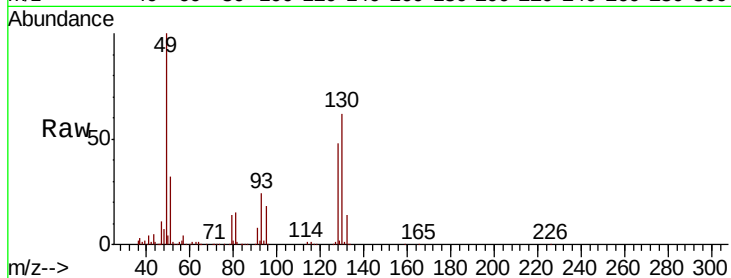
Ion 70.10 (69.80 to 70.80): VL0





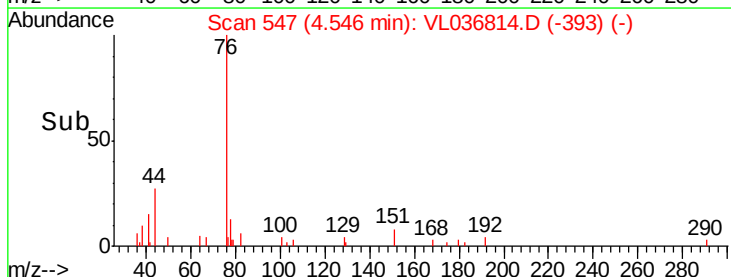
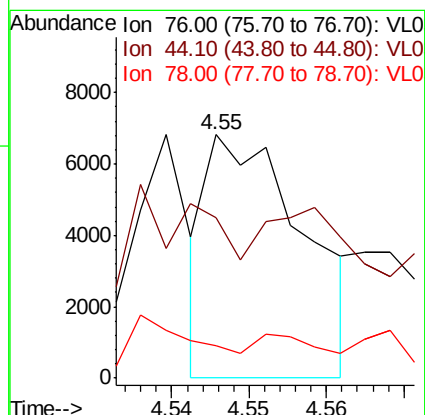
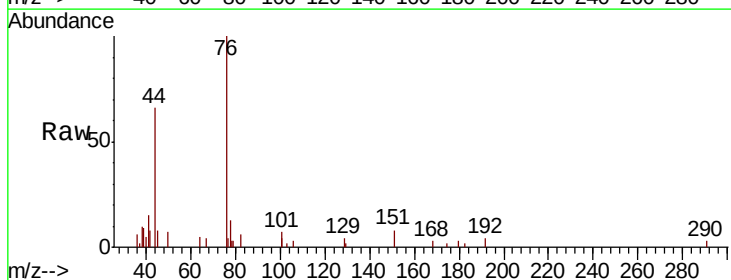
#26
Hexane
Concen: 0.072 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 13 Apr 2021 23:18

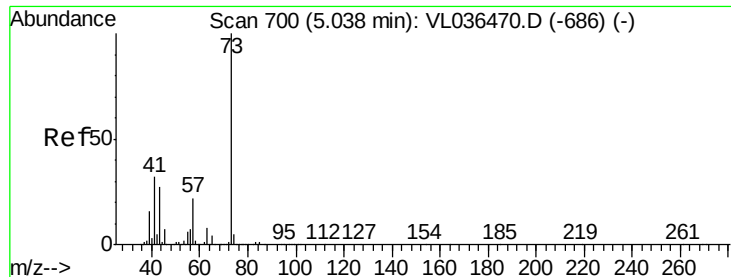
Tot Ion:	57	Resp:	9652
Ion	Ratio	Lower	Upper
57	100		
41	0.0	77.2	115.8#
43	0.0	173.8	260.6#
56	0.0	43.8	65.6#



#27
Carbon Disulfide
Concen: 0.045 ppbv
RT: 4.55 min Scan# 547
Delta R.T. -0.01 min
Lab File: VL036814.D
Acq: 13 Apr 2021 23:18

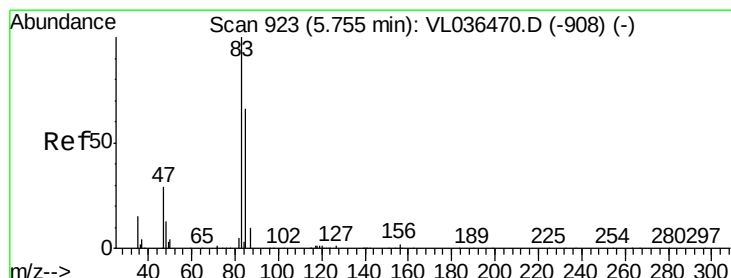
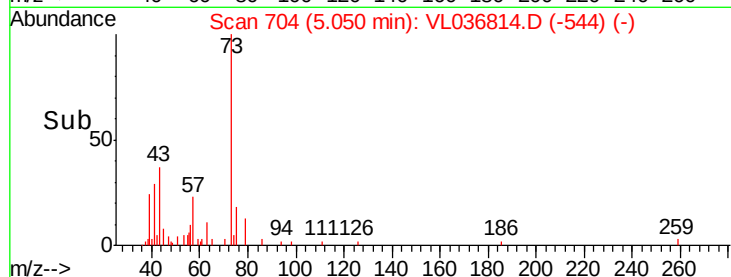
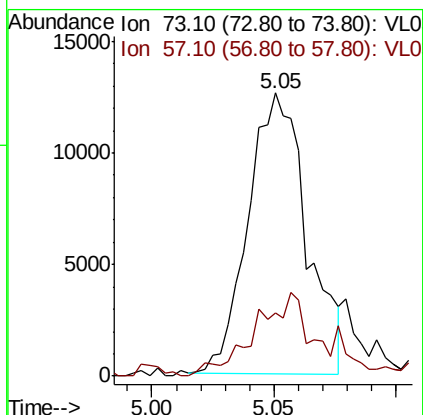
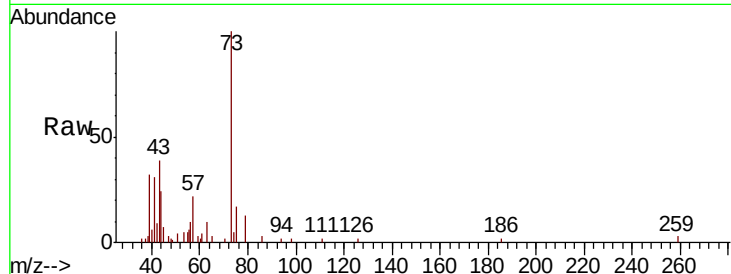
Tgt Ion:	76	Resp:	5936
Ion	Ratio	Lower	Upper
76	100		
44	0.0	17.5	26.3#
78	0.0	8.6	13.0#





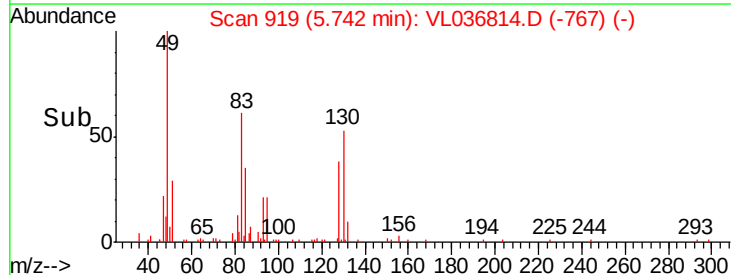
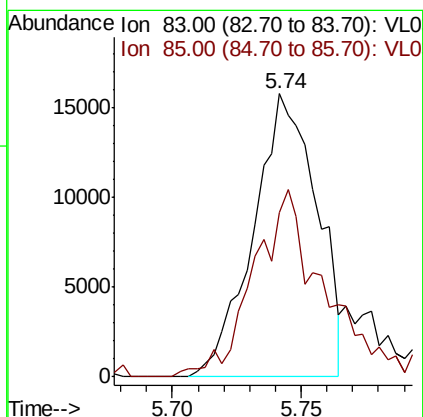
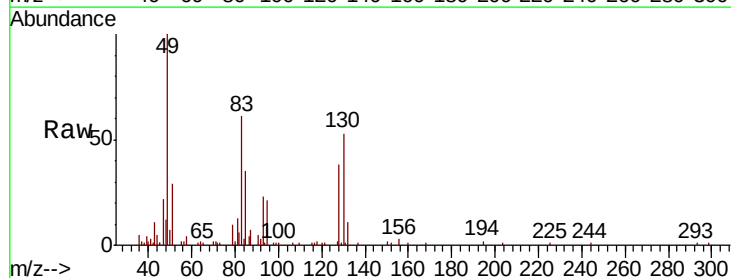
#28
Methvl tert-Butyl Ether
Concen: 0.133 ppbv
RT: 5.05
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 Apr 2021 23:18

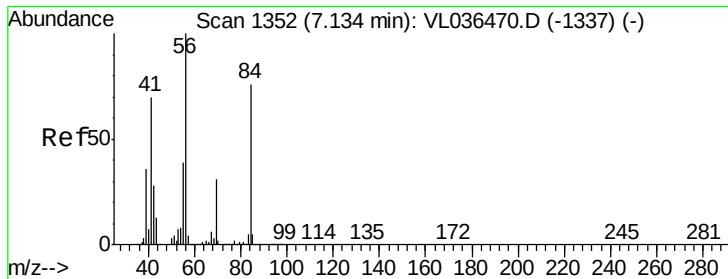
Tot Ion: 73 Resp: 21037
Ion Ratio Lower Upper
73 100
57 34.5 18.5 27.7#



#29
Chloroform
Concen: 0.126 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.01 min
Lab File: VL036814.D
Acq: 13 Apr 2021 23:18

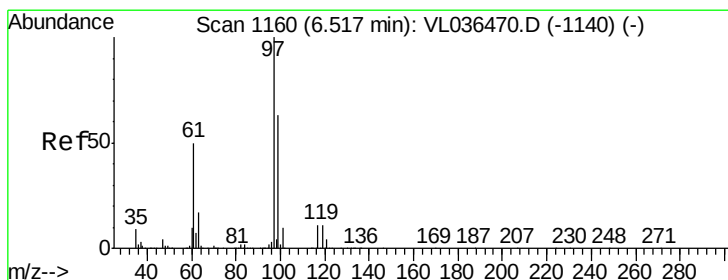
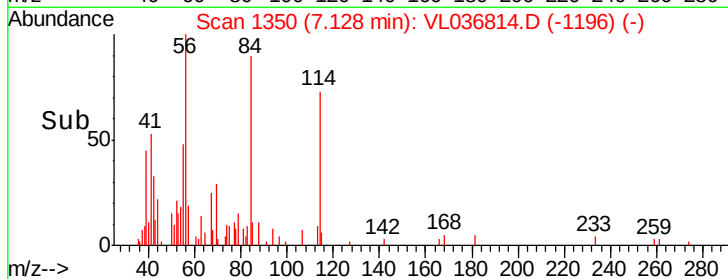
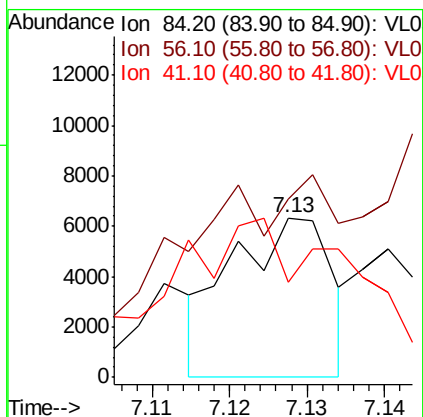
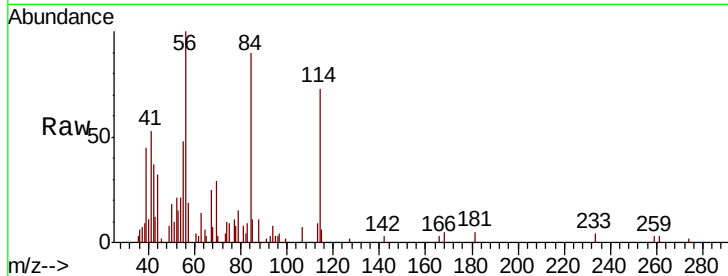
Tgt Ion: 83 Resp: 27056
Ion Ratio Lower Upper
83 100
85 55.2 52.6 78.8





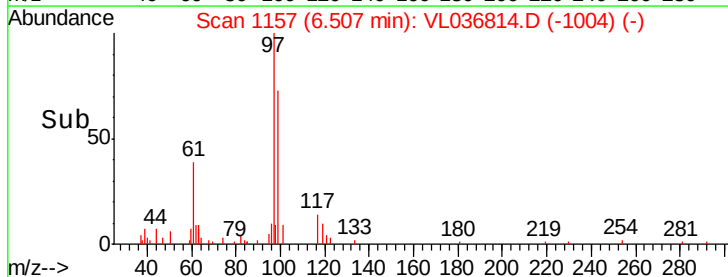
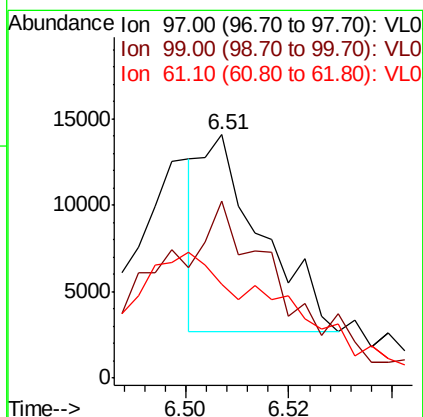
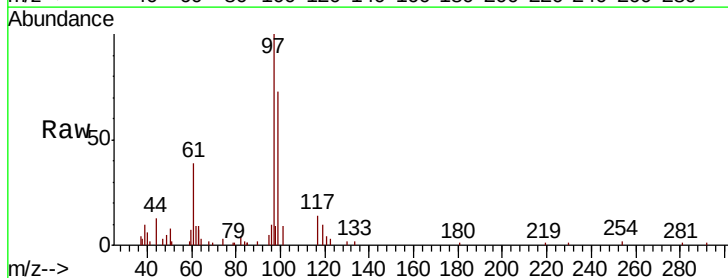
#30
Cyclohexane
Concen: 0.052 ppbv
RT: 7.13
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Apr 2021 23:18

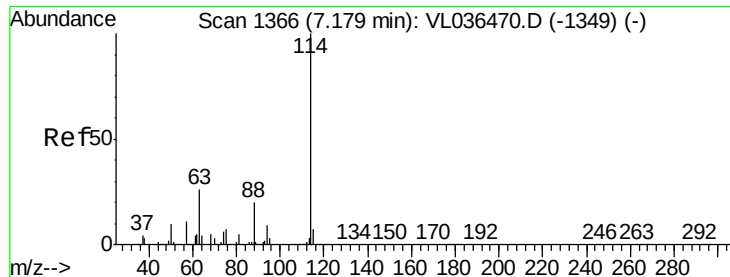
Tot Ion: 84 Resp: 5674
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 217.5 75.3 112.9#



#32
1,1,1-Trichloroethane
Concen: 0.043 ppbv
RT: 6.51 min Scan# 1157
Delta R.T. -0.01 min
Lab File: VL036814.D
Acq: 13 Apr 2021 23:18

Tgt Ion: 97 Resp: 9186
Ion Ratio Lower Upper
97 100
99 214.0 51.4 77.0#
61 177.8 40.6 60.8#

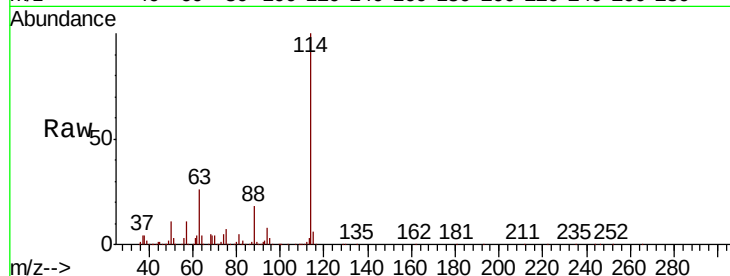




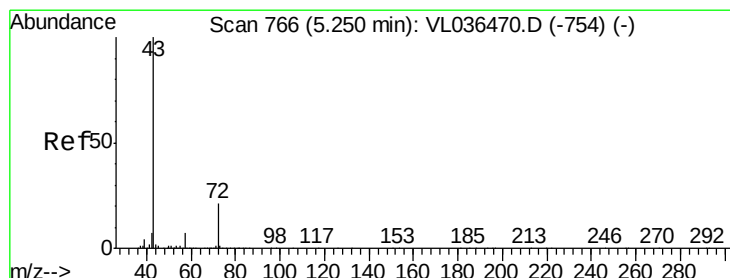
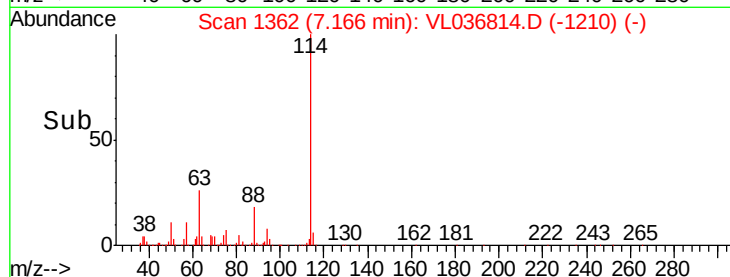
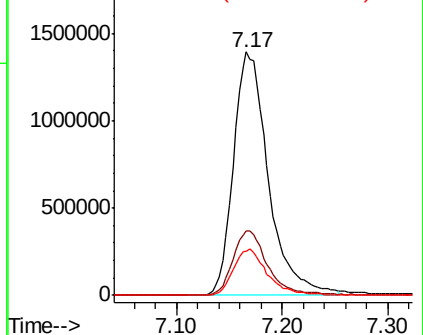
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 23:18

Tot Ion: 114 Resp: 3202743

Ion	Ratio	Lower	Upper
114	100		
63	26.9	22.4	33.6
88	18.7	15.4	23.0



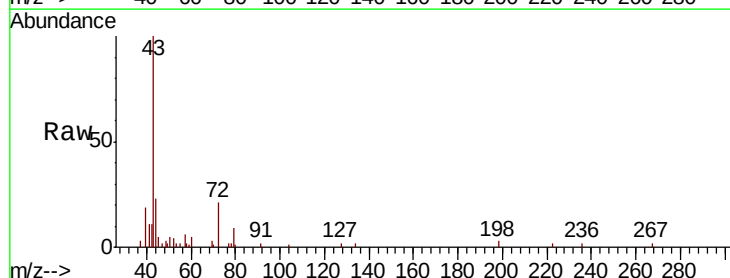
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



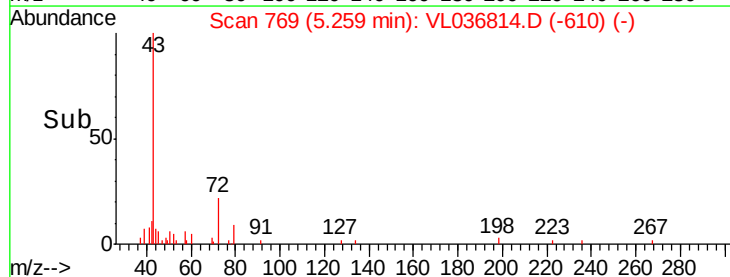
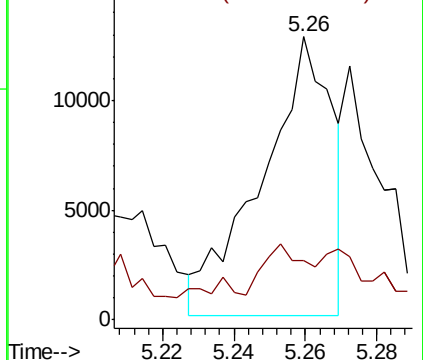
#34
 2-Butanone
 Concen: 0.111 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

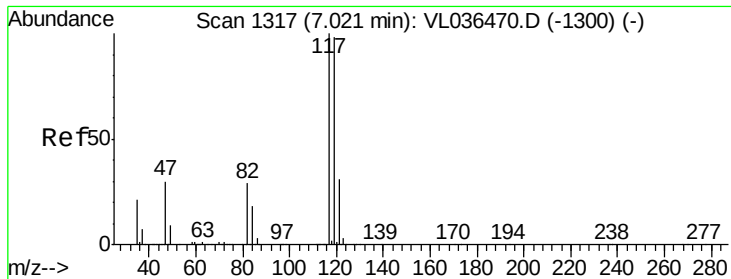
Tgt Ion: 43 Resp: 17314

Ion	Ratio	Lower	Upper
43	100		
72	60.6	17.0	25.6#



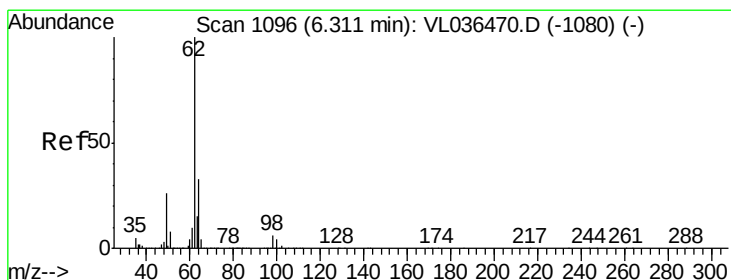
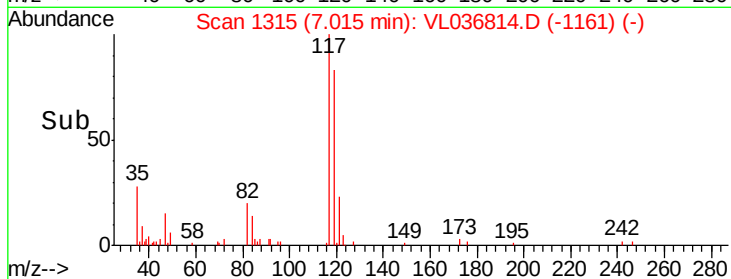
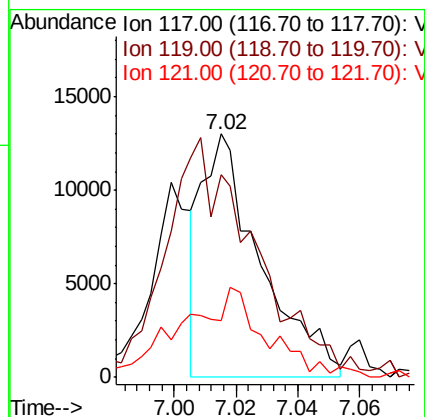
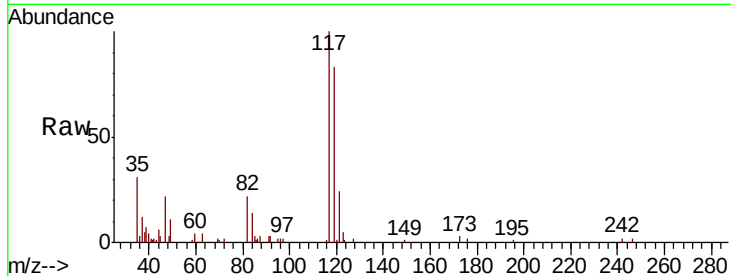
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





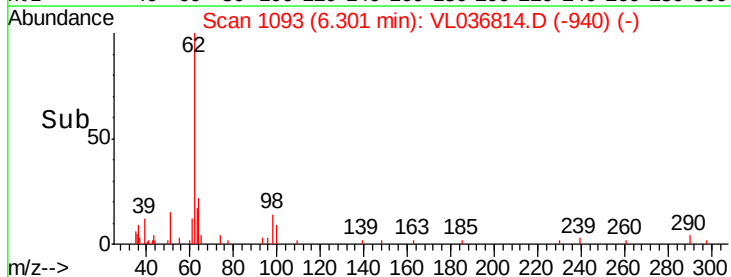
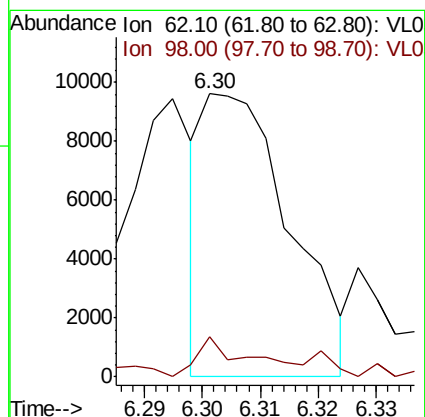
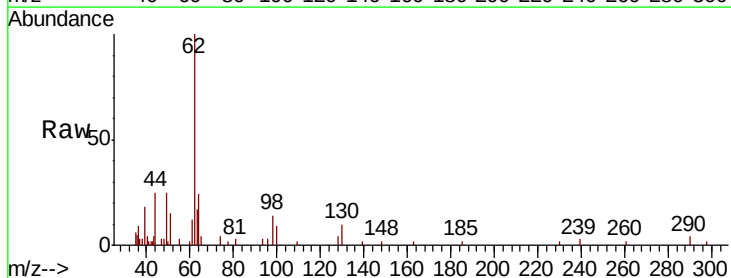
#35
 Carbon Tetrachloride
 Concen: 0.070 ppbv
 RT: 7.02 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 23:18

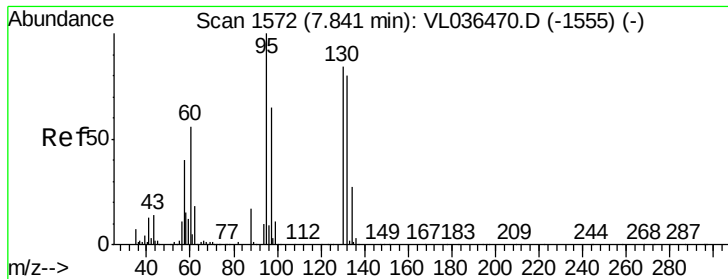
Tot Ion: 117 Resp: 17220
 Ion Ratio Lower Upper
 117 100
 119 83.9 78.2 117.2
 121 20.4 24.5 36.7#



#37
 1,2-Dichloroethane
 Concen: 0.058 ppbv
 RT: 6.30 min Scan# 1093
 Delta R.T. -0.01 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

Tgt Ion: 62 Resp: 10010
 Ion Ratio Lower Upper
 62 100
 98 16.3 4.9 7.3#





#38

Trichloroethene

Concen: 0.077 ppbv

RT: 7.83 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:130 Resp: 8846

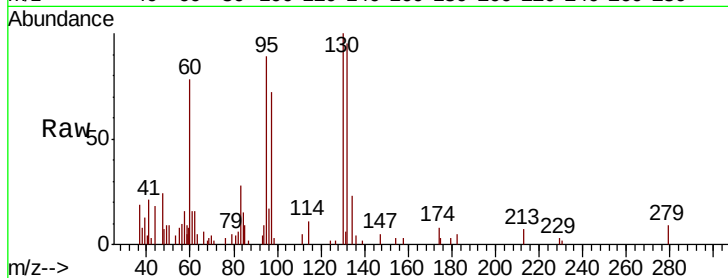
Ion Ratio Lower Upper

130 100

95 84.6 95.7 143.5#

132 93.5 76.2 114.4

97 71.7 61.8 92.6

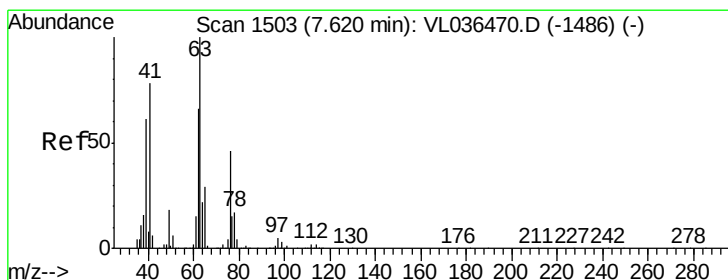
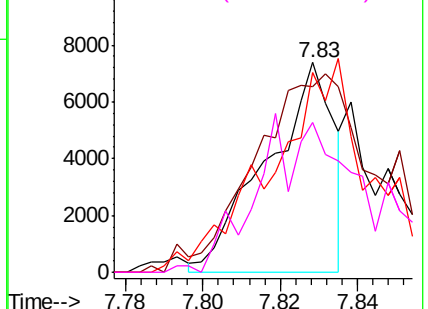
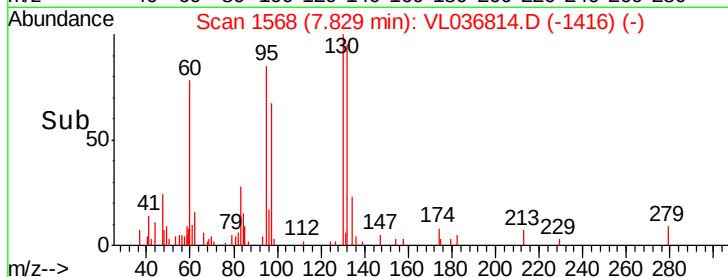


Abundance Ion 130.00 (129.70 to 130.70): V

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: 6.893 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.45 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

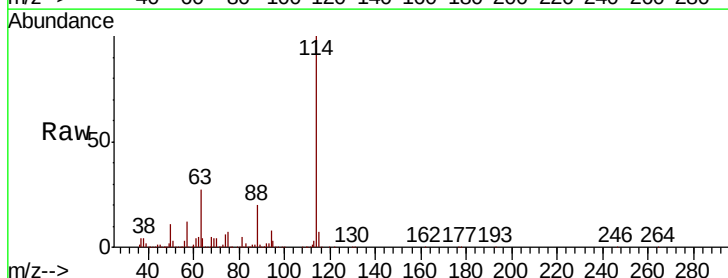
Tgt Ion: 63 Resp: 825977

Ion Ratio Lower Upper

63 100

41 0.1 62.4 93.6#

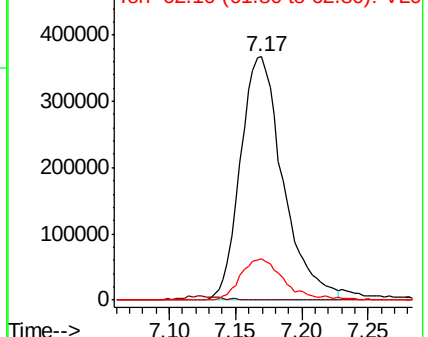
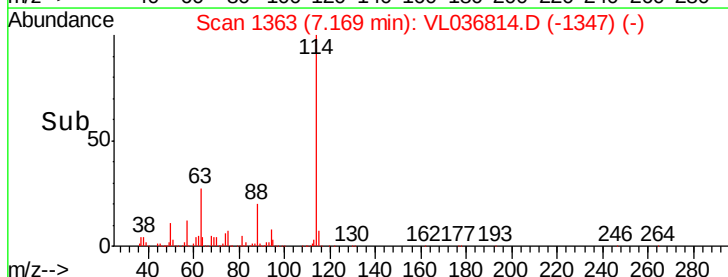
62 17.2 52.8 79.2#

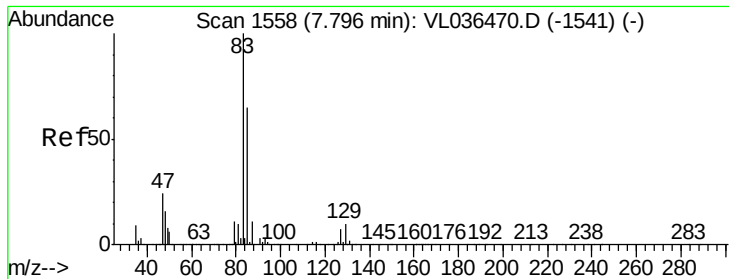


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.058 ppbv

RT: 7.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

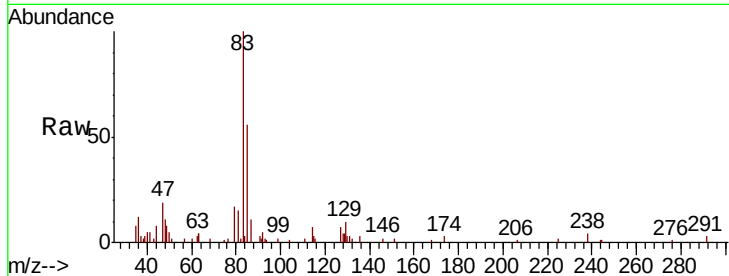
Tot Ion: 83 Resp: 13766

Ion Ratio Lower Upper

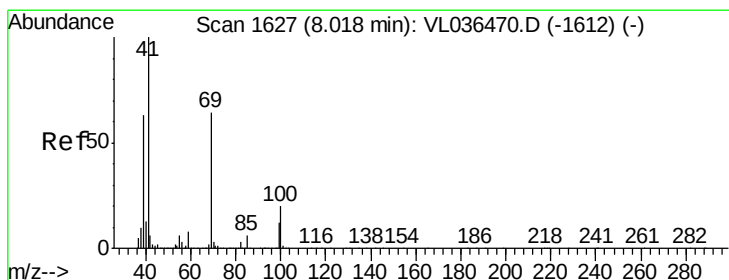
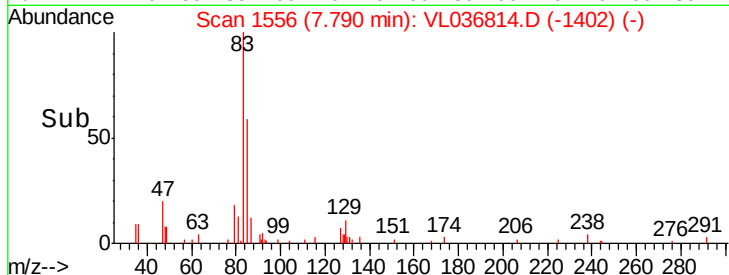
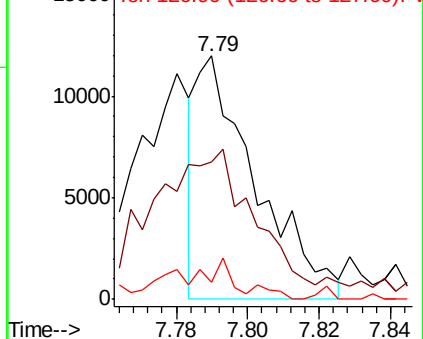
83 100

85 53.7 51.8 77.6

127 7.8 5.8 8.8



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.039 ppbv

RT: 8.02 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

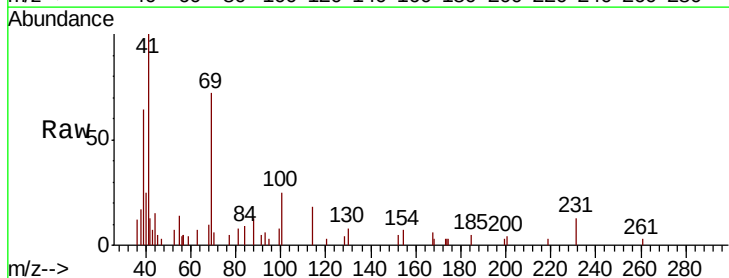
Tgt Ion: 69 Resp: 3915

Ion Ratio Lower Upper

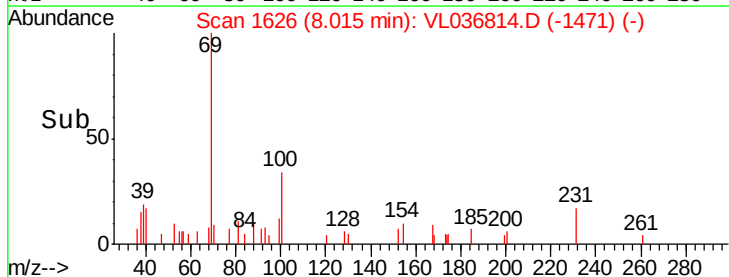
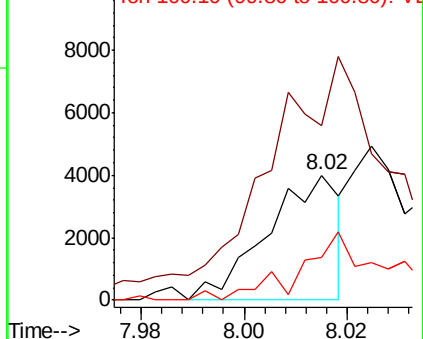
69 100

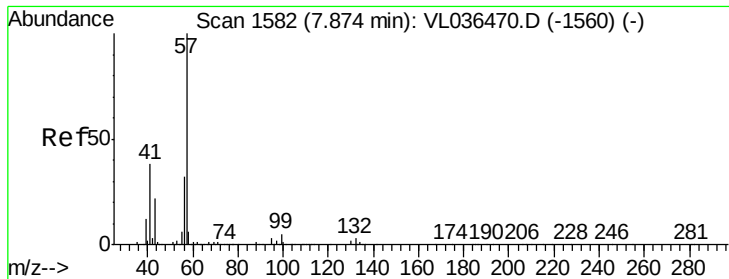
41 391.1 126.8 190.2#

100 75.2 24.9 37.3#



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.111 ppbv

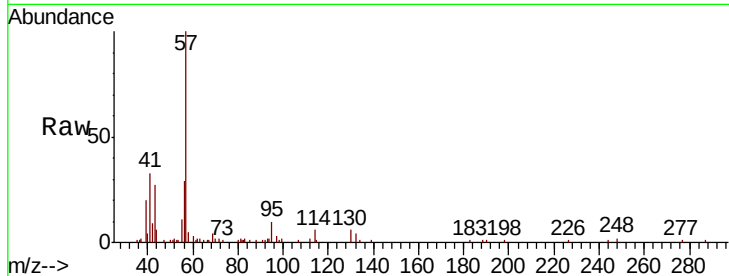
RT: 7.86 Instrument:

Delta R.T. MSVOA_L

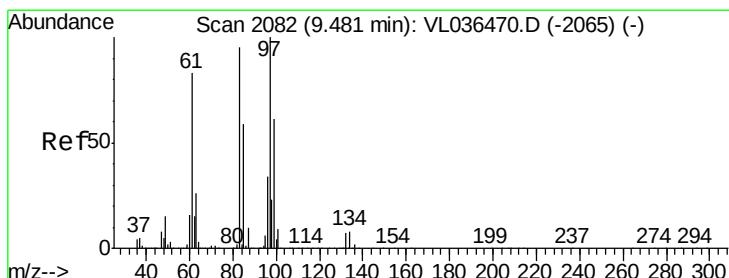
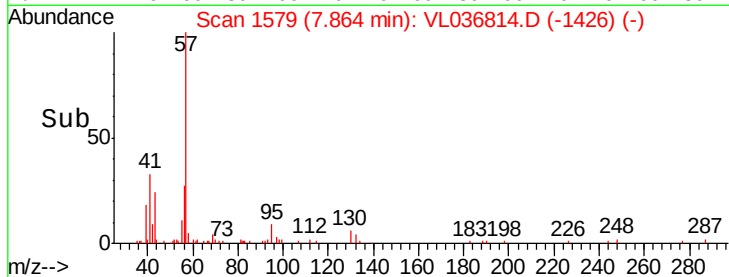
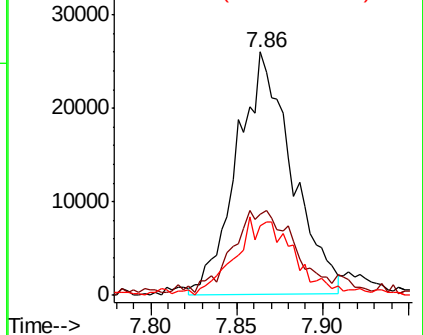
Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:	57	Resp:	57497
Ion	Ratio	Lower	Upper
57	100		
41	41.5	28.8	43.2
56	37.4	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: 0.032 ppbv

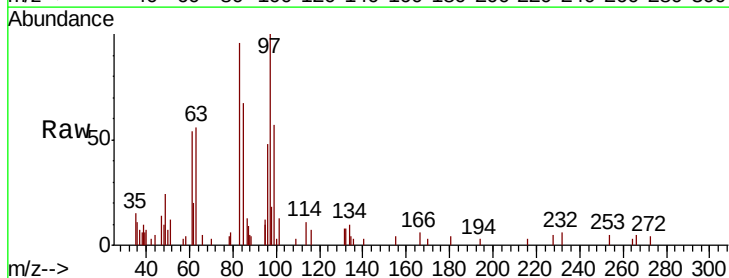
RT: 9.46 min Scan# 2076

Delta R.T. -0.02 min

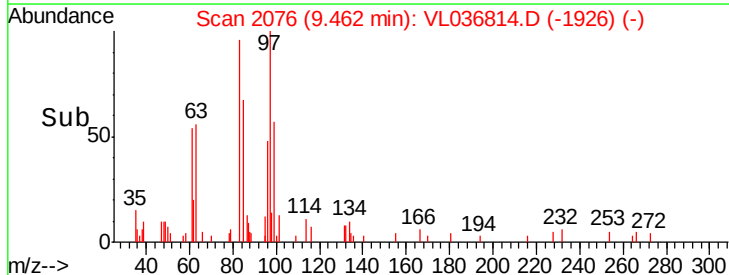
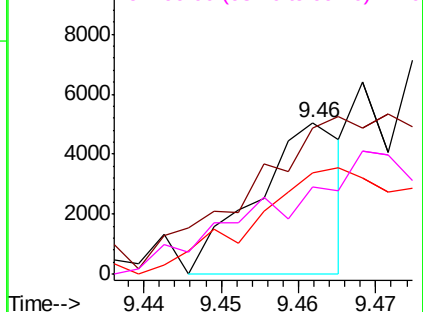
Lab File: VL036814.D

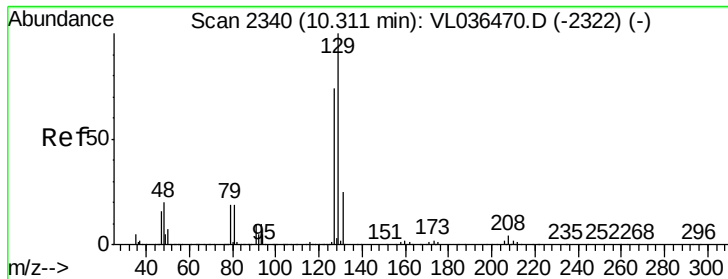
Acq: 13 Apr 2021 23:18

Tgt Ion:	97	Resp:	3906
Ion	Ratio	Lower	Upper
97	100		
83	65.4	75.8	113.8#
85	52.1	47.1	70.7
99	43.0	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: 0.061 ppbv

RT: 10.30

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

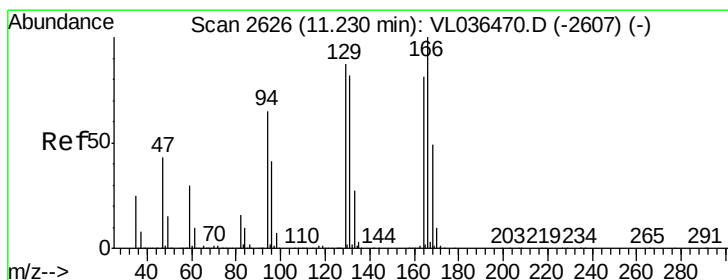
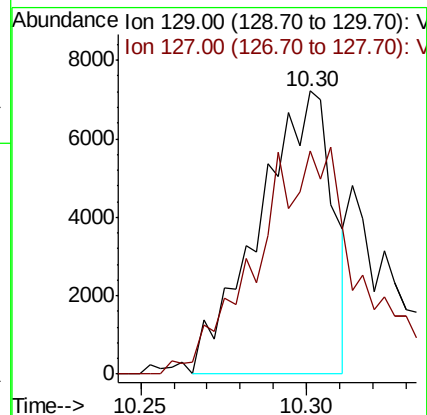
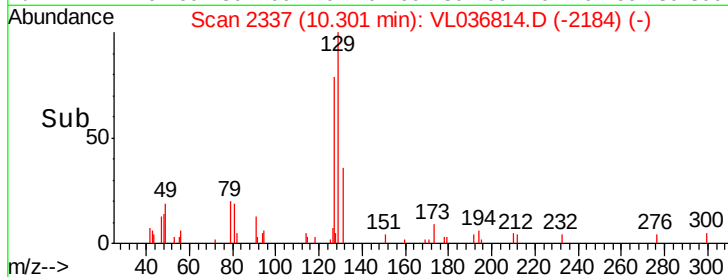
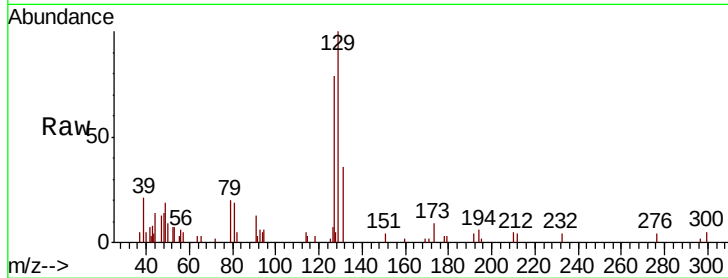
Acq: 13 Apr 2021 23:18

Tot Ion:129 Resp: 11218

Ion Ratio Lower Upper

129 100

127 114.1 39.6 118.8



#52

Tetrachloroethene

Concen: 0.087 ppbv

RT: 11.21 min Scan# 2621

Delta R.T. -0.02 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

Tgt Ion:164 Resp: 9474

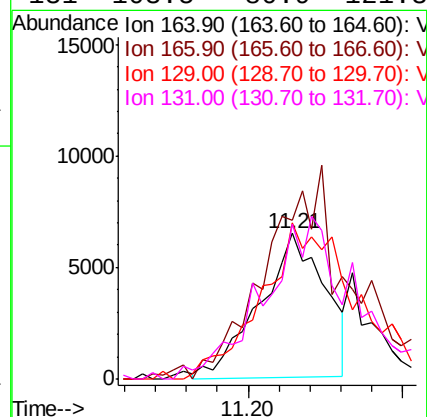
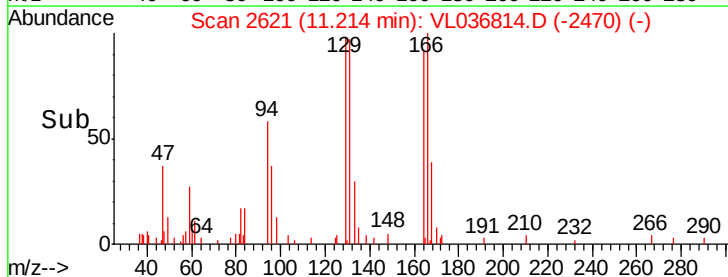
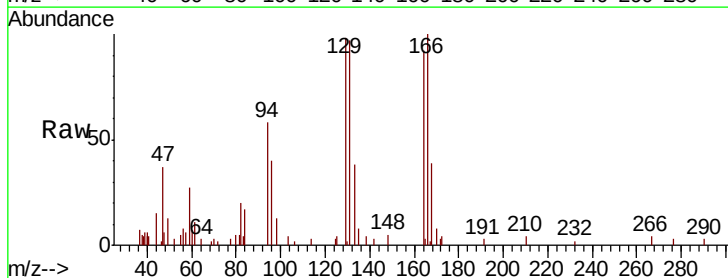
Ion Ratio Lower Upper

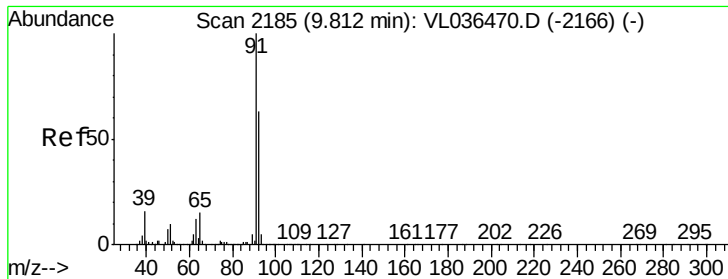
164 100

166 113.3 98.3 147.5

129 107.7 85.8 128.8

131 103.5 80.9 121.3





#53

Toluene

Concen: 0.096 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

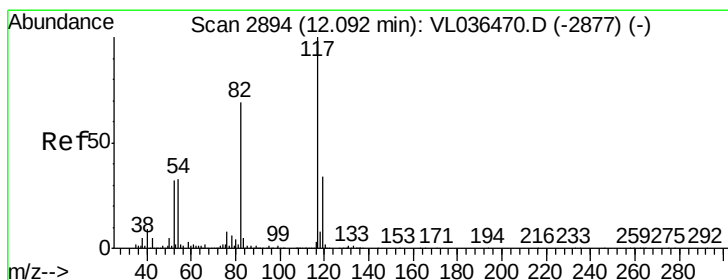
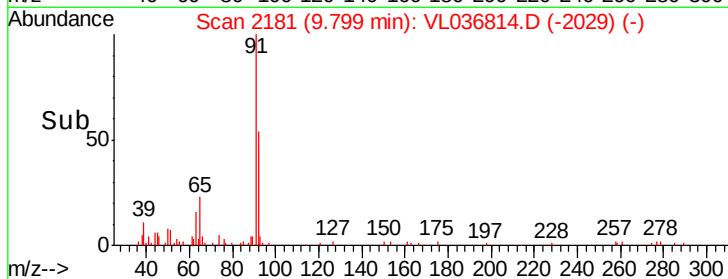
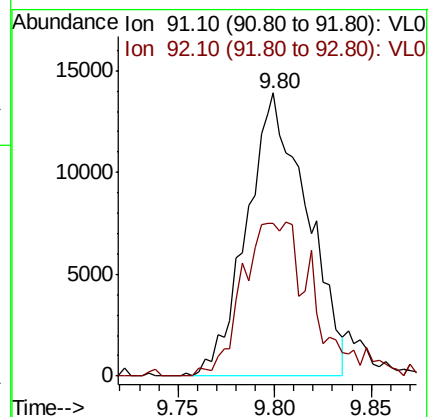
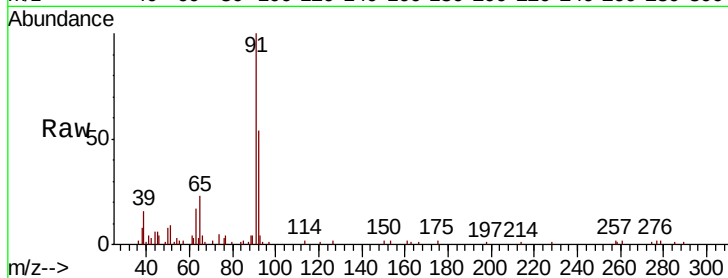
Acq: 13 Apr 2021 23:18

Tot Ion: 91 Resp: 30199

Ion Ratio Lower Upper

91 100

92 65.4 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

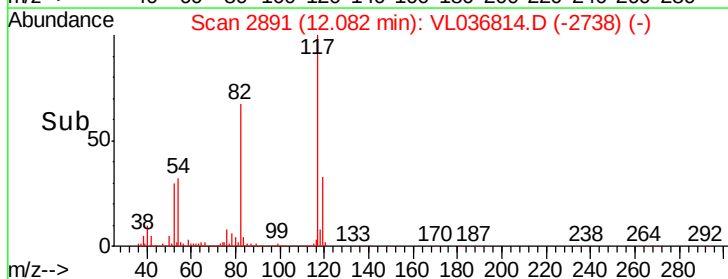
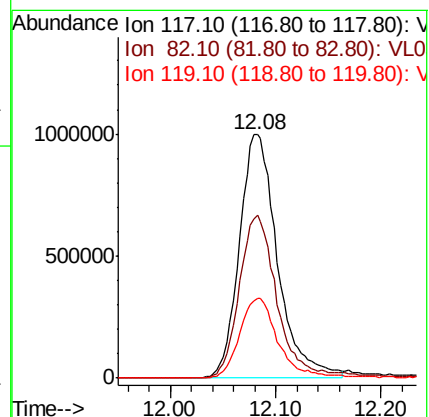
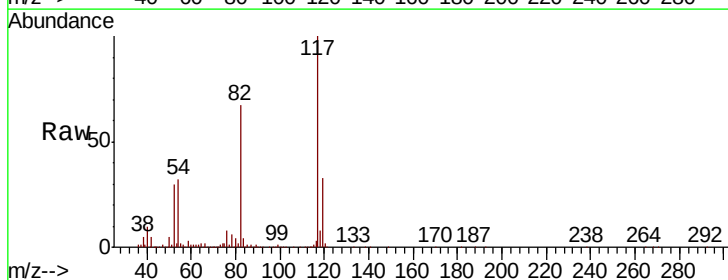
Tgt Ion: 117 Resp: 2513323

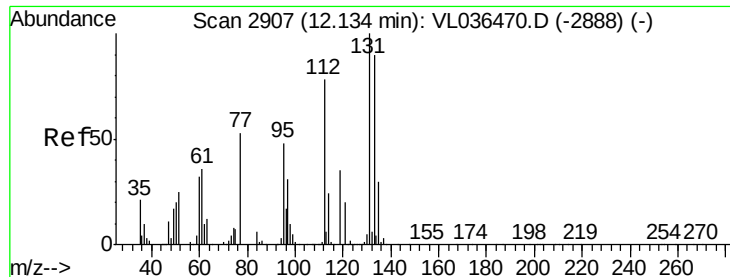
Ion Ratio Lower Upper

117 100

82 68.0 57.4 86.0

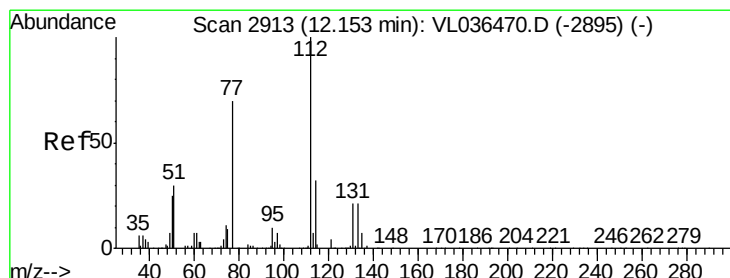
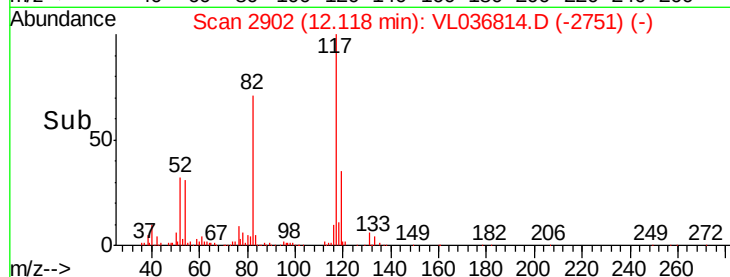
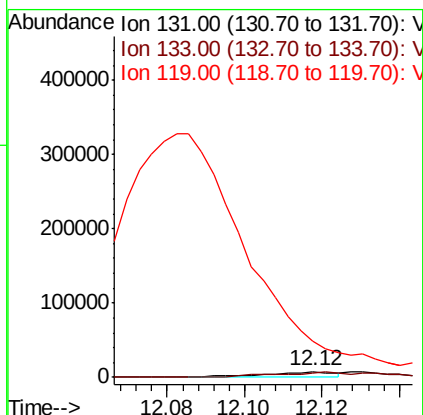
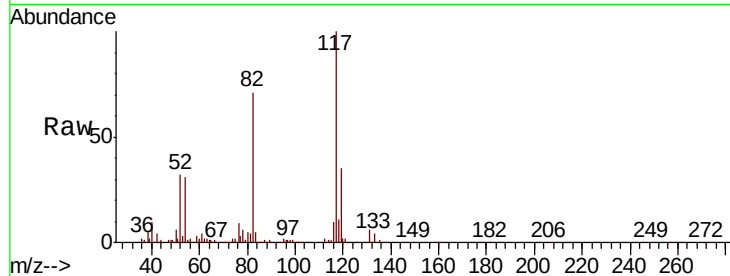
119 33.6 47.4 71.0#





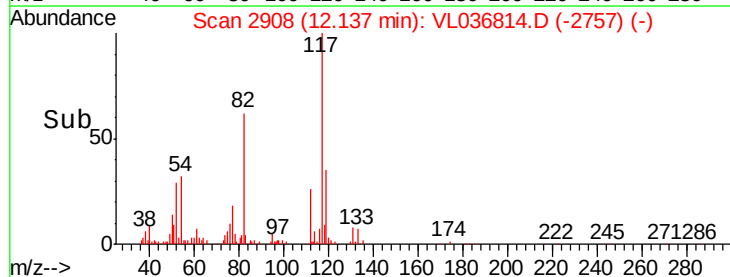
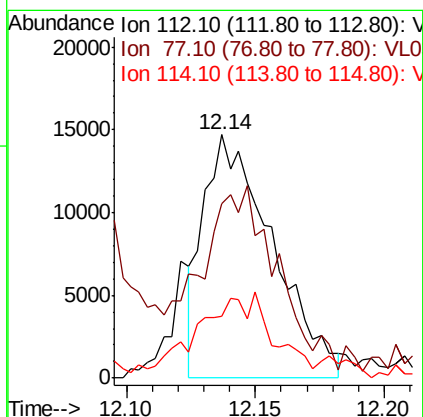
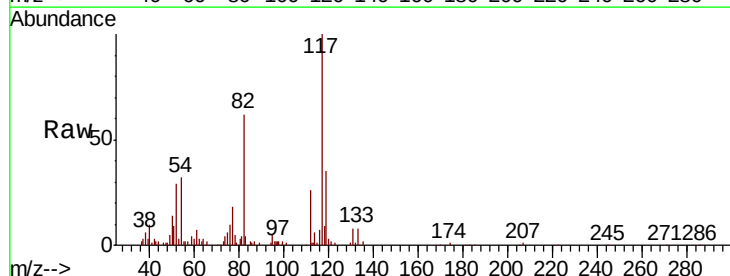
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.084 ppbv
 RT: 12.12 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 13 Apr 2021 23:18

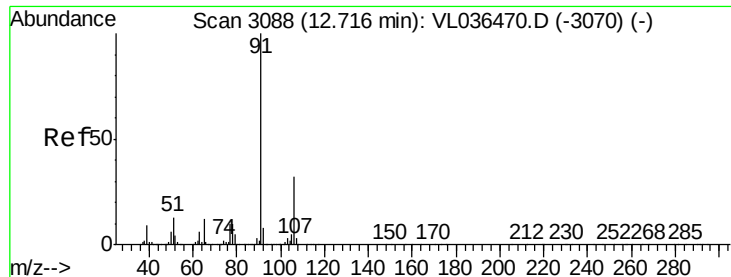
Tot Ion:131 Resp: 9561
 Ion Ratio Lower Upper
 131 100
 133 163.8 75.8 113.6#
 119 0.0 48.7 73.1#



#57
 Chlorobenzene
 Concen: 0.128 ppbv
 RT: 12.14 min Scan# 2908
 Delta R.T. -0.02 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

Tgt Ion:112 Resp: 27378
 Ion Ratio Lower Upper
 112 100
 77 73.4 56.0 84.0
 114 20.8 29.0 35.4#





#58

Ethyl Benzene

Concen: 0.083 ppbv

RT: 12.71 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

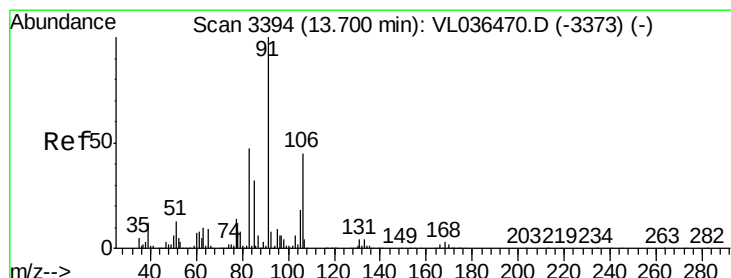
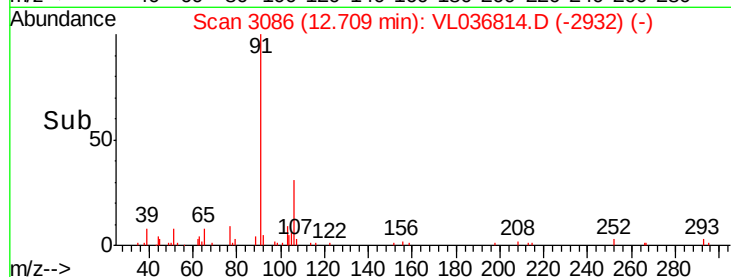
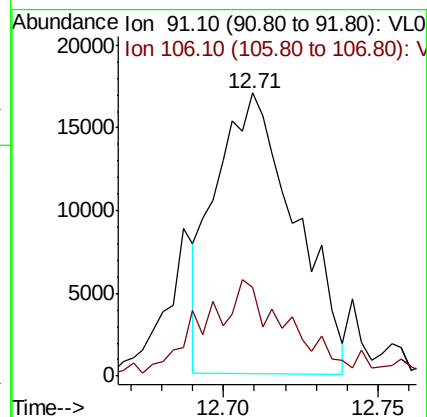
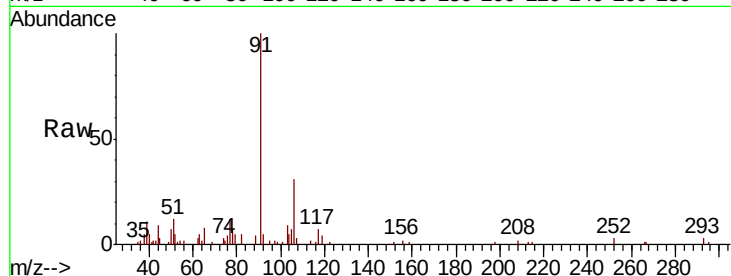
Acq: 13 Apr 2021 23:18

Tot Ion: 91 Resp: 30381

Ion Ratio Lower Upper

91 100

106 28.8 25.3 37.9



#60

o-Xylene

Concen: 0.038 ppbv

RT: 13.69 min Scan# 3390

Delta R.T. -0.01 min

Lab File: VL036814.D

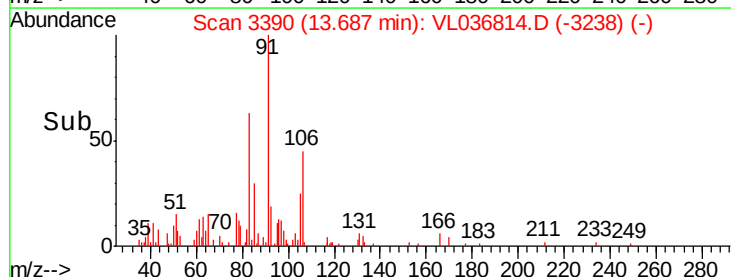
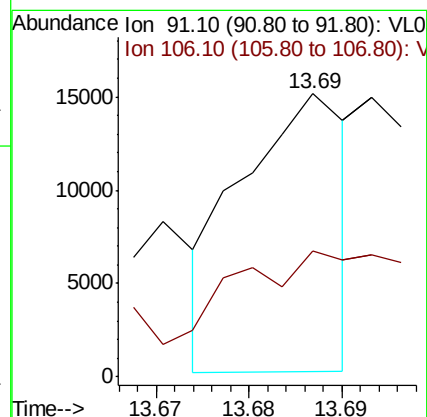
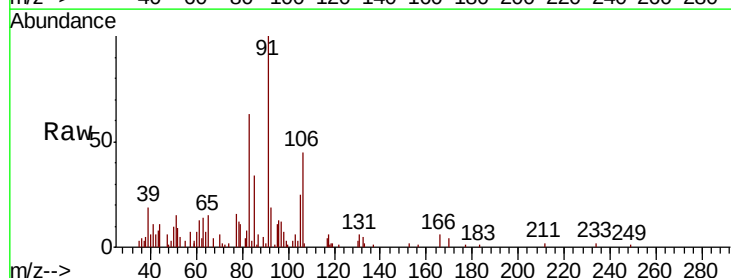
Acq: 13 Apr 2021 23:18

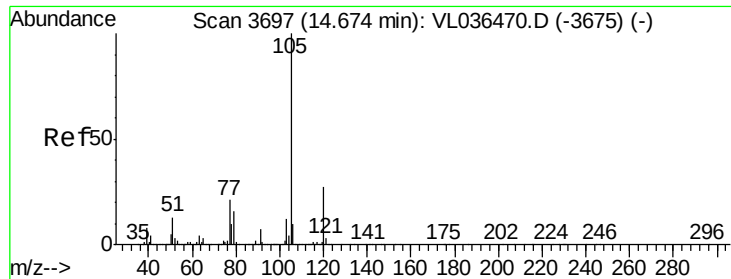
Tgt Ion: 91 Resp: 11836

Ion Ratio Lower Upper

91 100

106 143.7 22.3 66.9#





#62

Isopropylbenzene

Concen: 0.092 ppbv

RT: 14.66 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

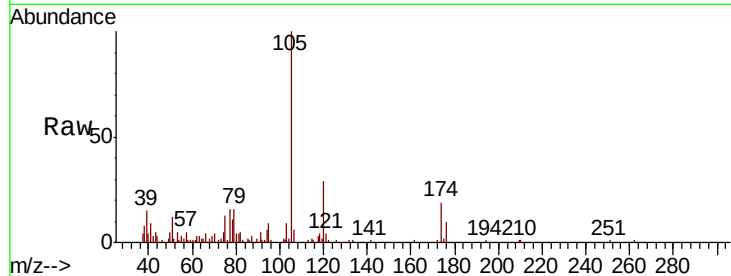
Acq: 13 Apr 2021 23:18

Tot Ion: 105 Resp: 38258

Ion Ratio Lower Upper

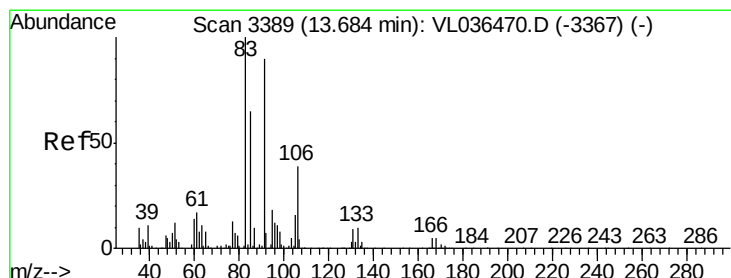
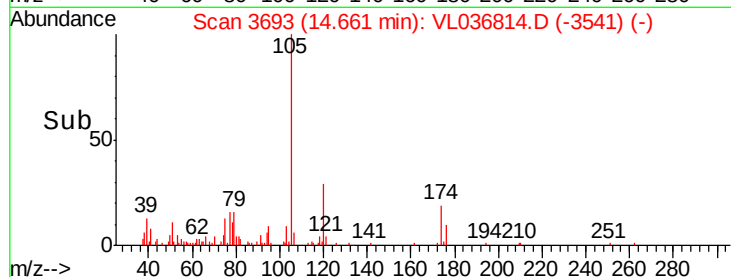
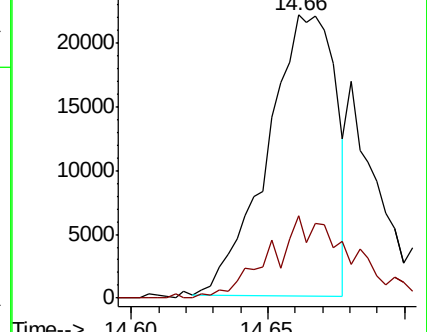
105 100

120 37.3 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: 0.043 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.02 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

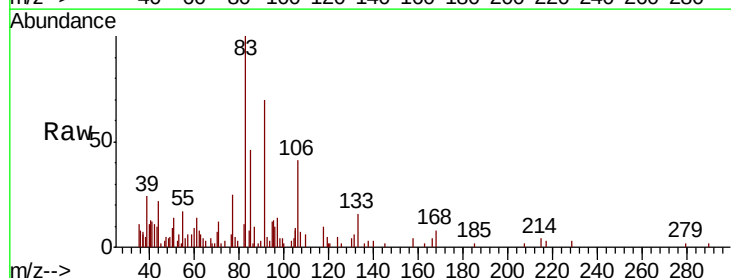
Tgt Ion: 83 Resp: 10049

Ion Ratio Lower Upper

83 100

131 35.7 4.7 14.0#

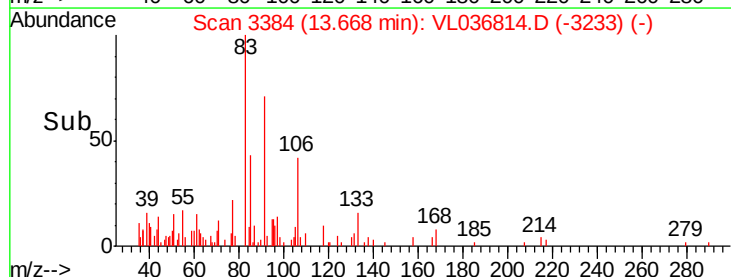
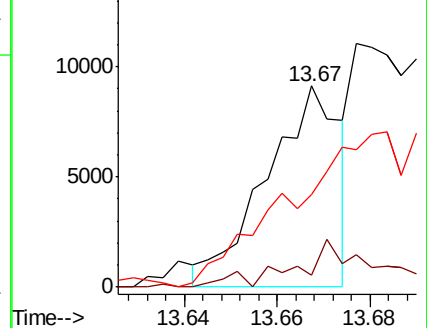
85 0.0 33.1 99.3#

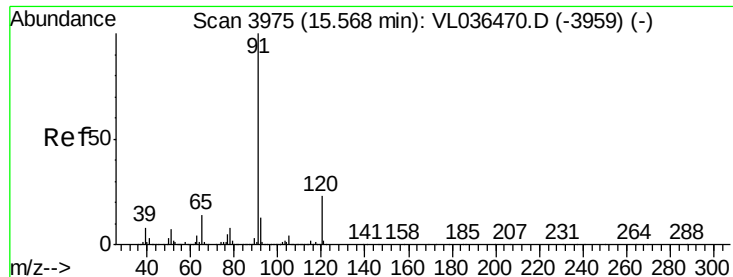


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.061 ppbv

RT: 15.56 min

Delta R.T. MSVOA_L

Lab File:

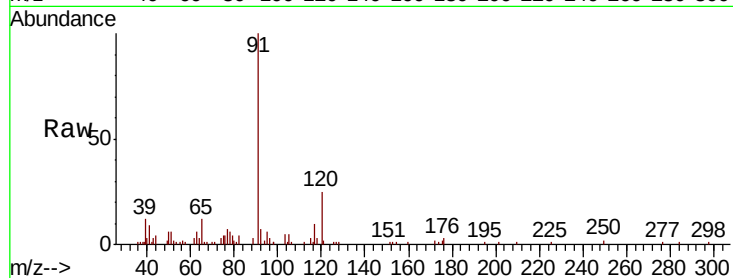
Acq: 13 Apr 2021 23:18

Tot Ion:120 Resp: 6212

Ion Ratio Lower Upper

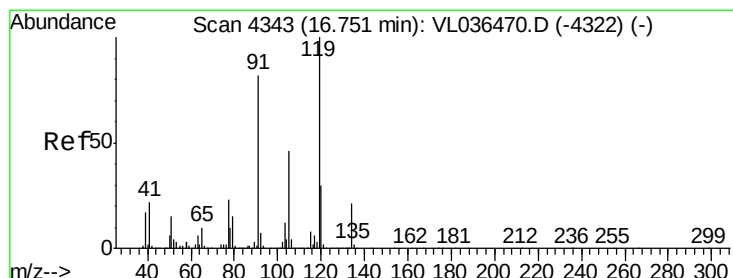
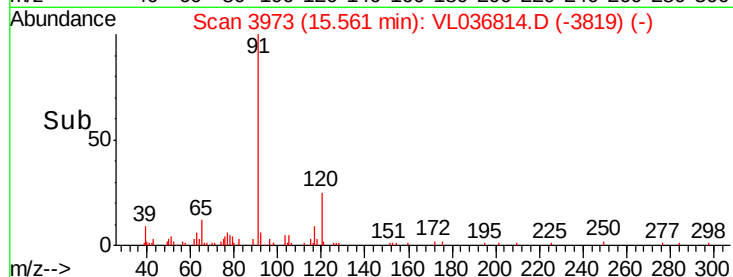
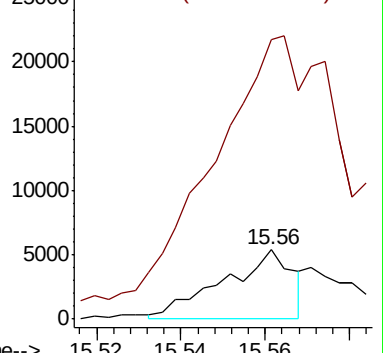
120 100

91 974.2 377.4 566.2#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.058 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. 0.00 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

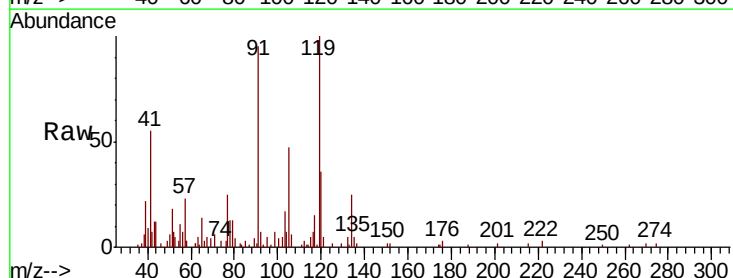
Tgt Ion:119 Resp: 20988

Ion Ratio Lower Upper

119 100

91 174.0 67.5 101.3#

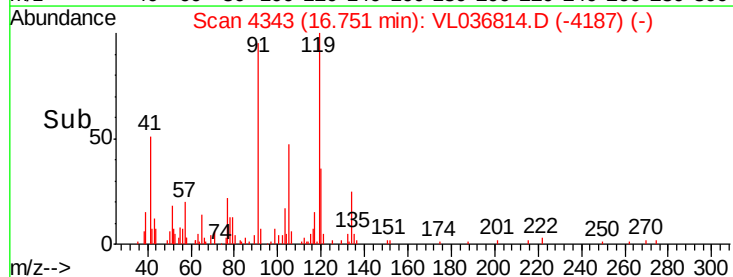
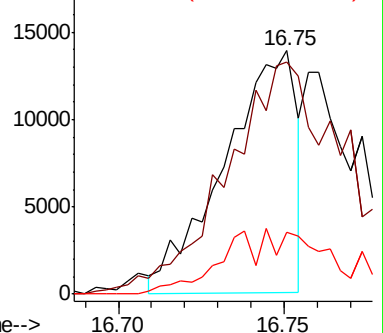
134 45.9 15.8 23.8#

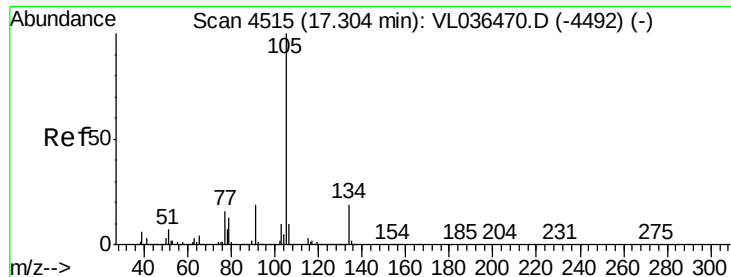


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

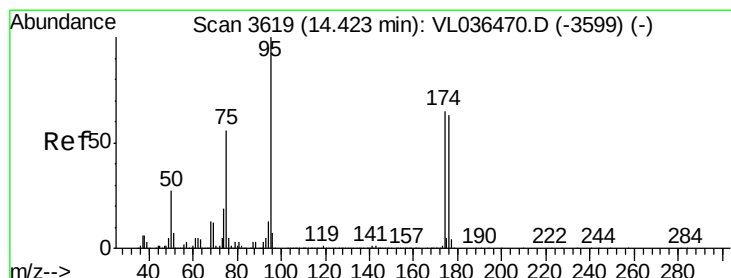
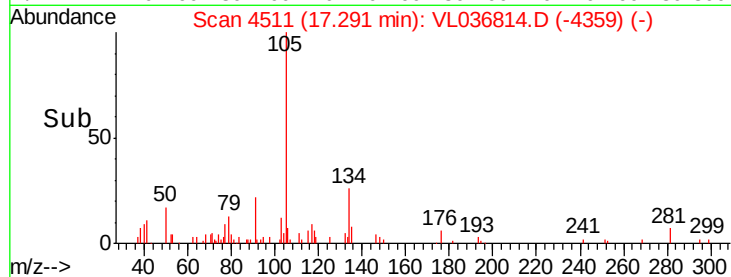
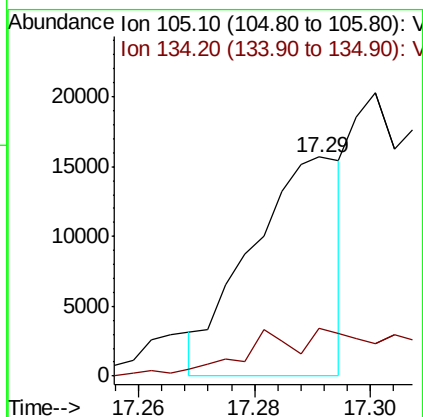
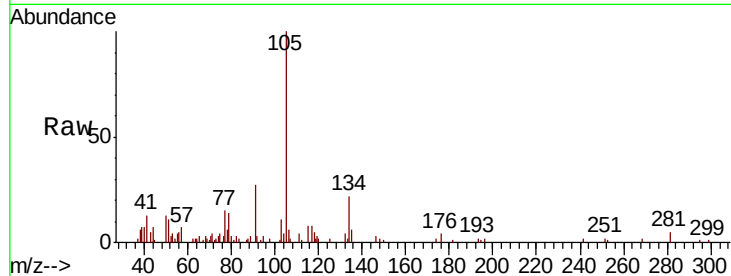
Ion 134.20 (133.90 to 134.90): V





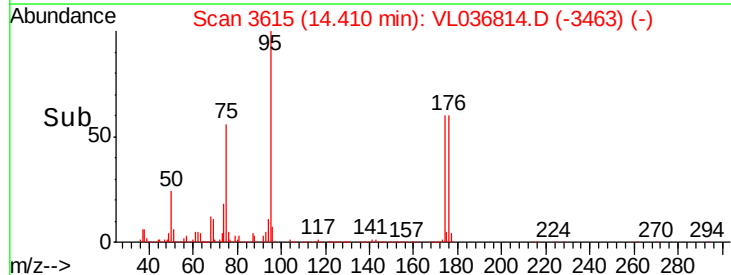
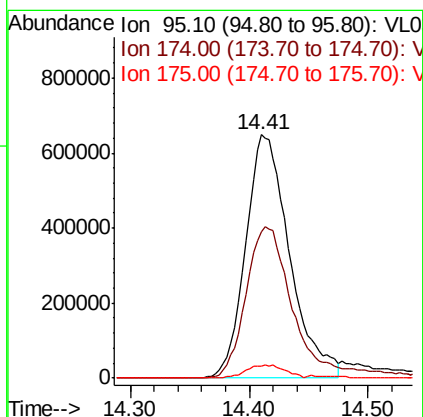
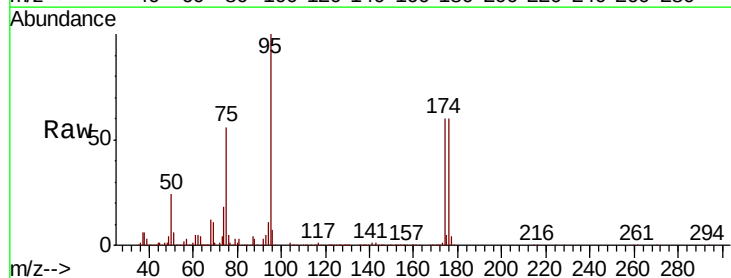
#67
 sec-Butylbenzene
 Concen: 0.033 ppbv
 RT: 17.29 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 13 Apr 2021 23:18

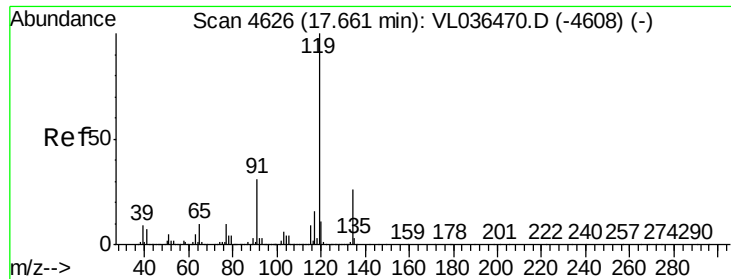
Tot Ion: 105 Resp: 16913
 Ion Ratio Lower Upper
 105 100
 134 62.0 14.7 22.1#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.292 ppbv
 RT: 14.41 min Scan# 3615
 Delta R.T. -0.01 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

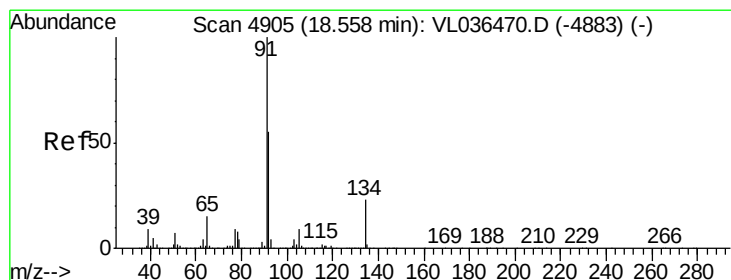
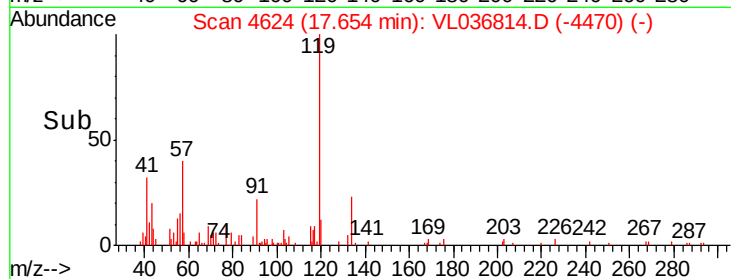
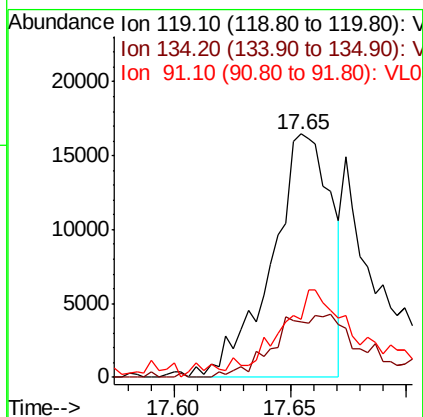
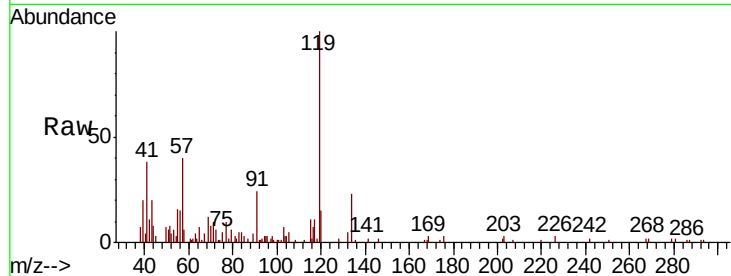
Tgt Ion: 95 Resp: 1661040
 Ion Ratio Lower Upper
 95 100
 174 70.2 51.0 76.6
 175 5.5 3.9 5.9





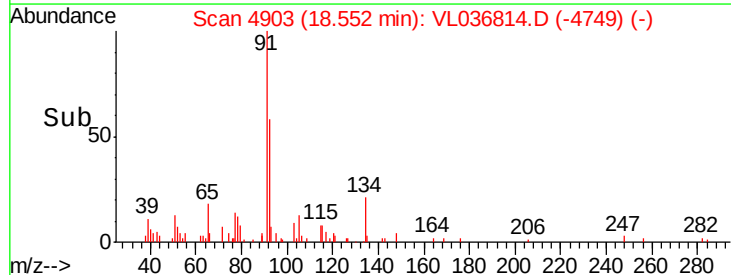
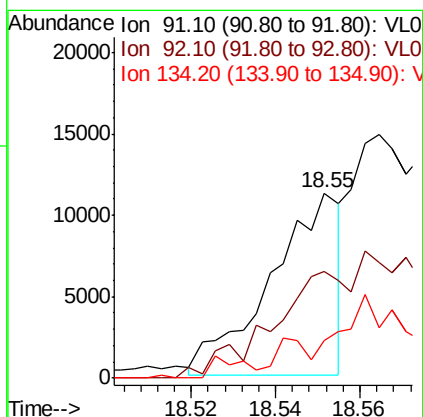
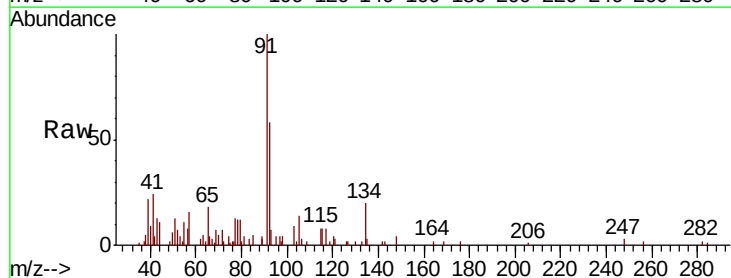
#69
 p-Isopropyltoluene
 Concen: 0.074 ppbv
 RT: 17.65 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 13 Apr 2021 23:18

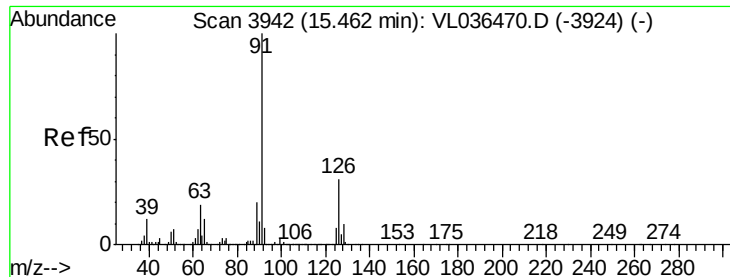
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#
91	54.5	25.0	37.6#



#70
 n-Butylbenzene
 Concen: 0.031 ppbv
 RT: 18.55 min Scan# 4903
 Delta R.T. -0.01 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

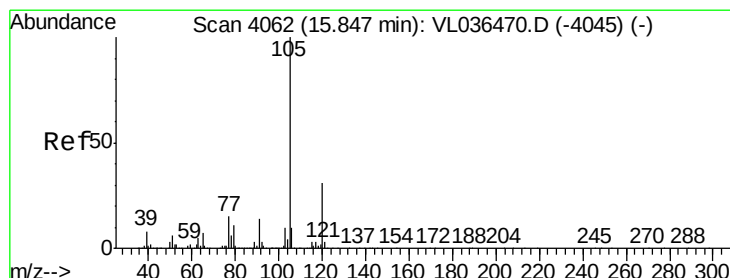
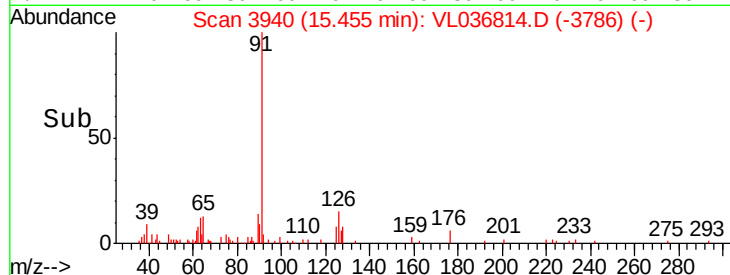
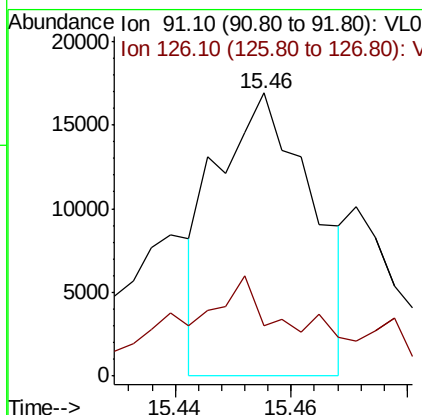
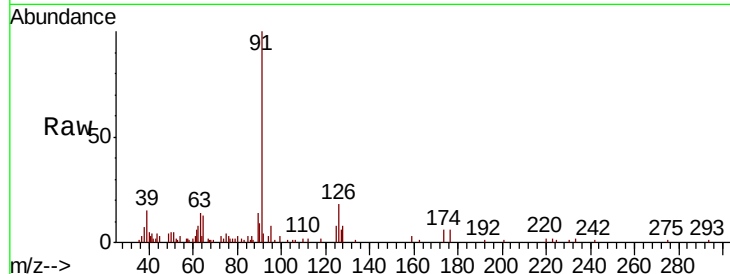
Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.8	65.8#
134	0.0	18.0	27.0#





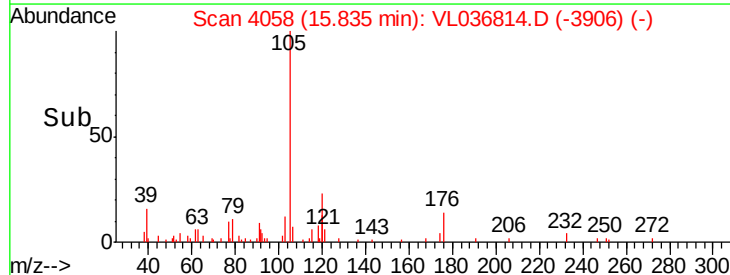
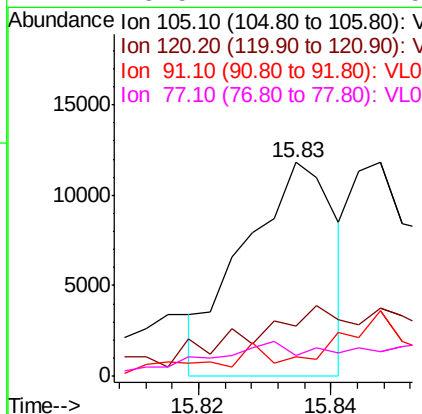
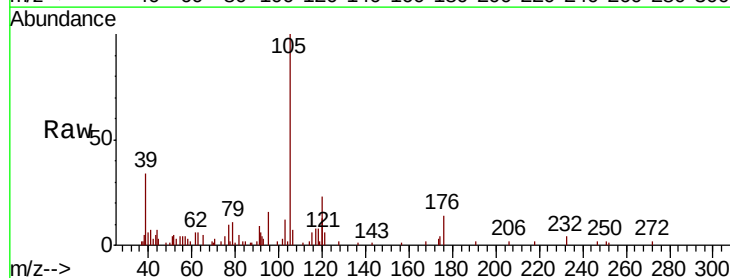
#71
 2-Chlorotoluene
 Concen: 0.063 ppbv
 RT: 15.46 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 13 Apr 2021 23:18

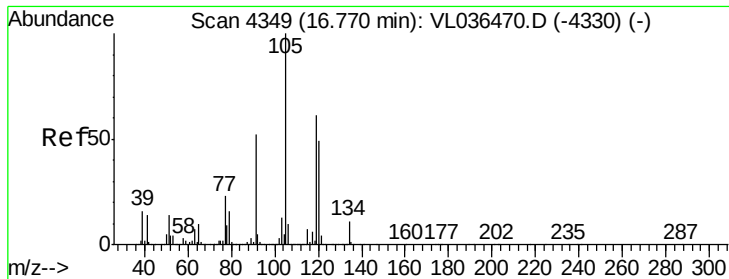
Tot Ion: 91 Resp: 19512
 Ion Ratio Lower Upper
 91 100
 126 64.5 12.1 48.5#



#72
 4-Ethyltoluene
 Concen: 0.033 ppbv
 RT: 15.83 min Scan# 4058
 Delta R.T. -0.01 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

Tgt Ion:105 Resp: 11198
 Ion Ratio Lower Upper
 105 100
 120 100.8 24.0 36.0#
 91 0.0 11.0 16.4#
 77 45.5 11.7 17.5#





#74

1,2,4-Trimethylbenzene

Concen: 0.031 ppbv

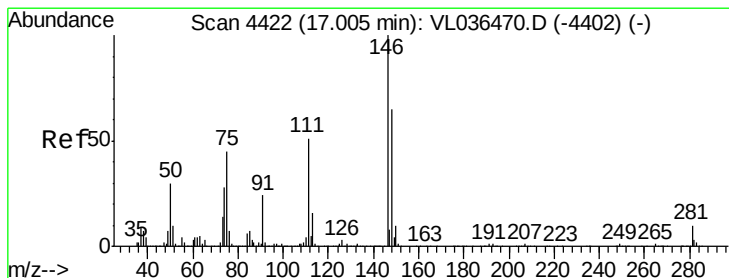
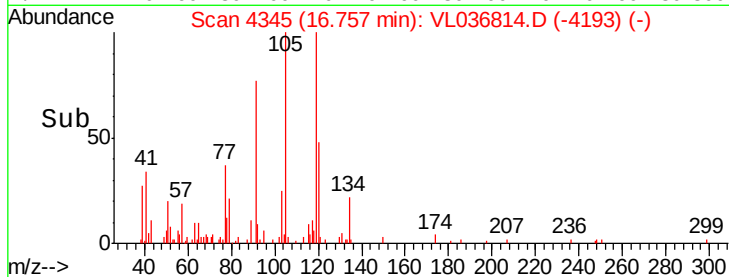
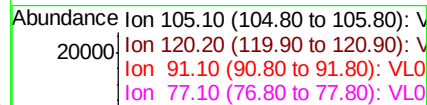
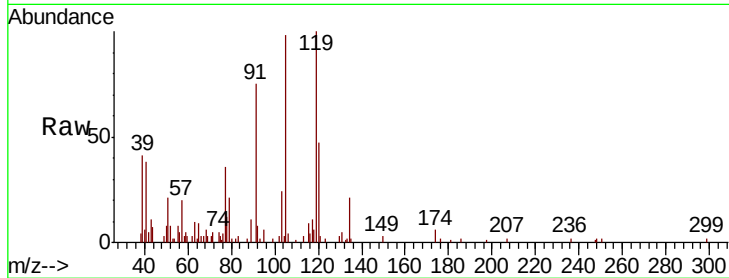
RT: 16.76 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:	105	Resp:	10395
Ion Ratio	Lower	Upper	
105	100		
120	30.7	39.2	58.8#
91	30.4	42.6	64.0#
77	26.2	18.6	28.0



#75

1,3-Dichlorobenzene

Concen: 0.068 ppbv

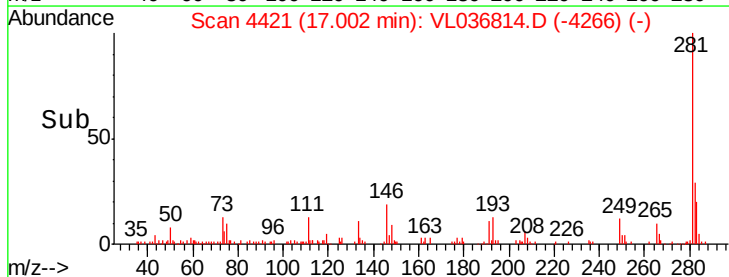
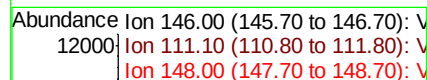
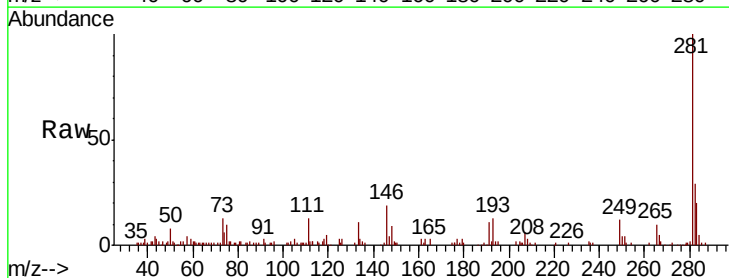
RT: 17.00 min Scan# 4421

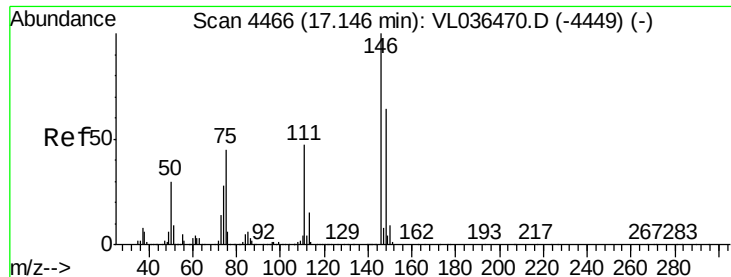
Delta R.T. -0.00 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

Tgt Ion:	146	Resp:	12848
Ion Ratio	Lower	Upper	
146	100		
111	123.4	24.5	73.5#
148	123.0	32.3	96.9#





#76

1,4-Dichlorobenzene

Concen: 0.039 ppbv

RT: 17.13

Delta R.T. MSVOA_L

Lab File:

Acq: 13 Apr 2021 23:18

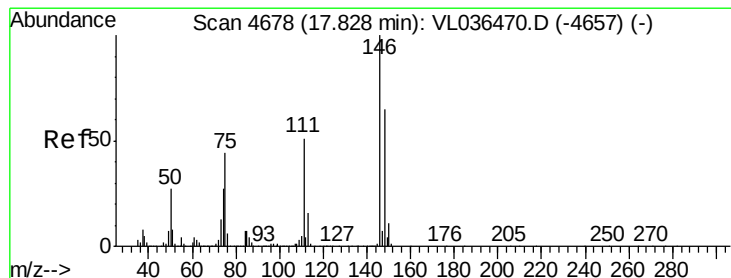
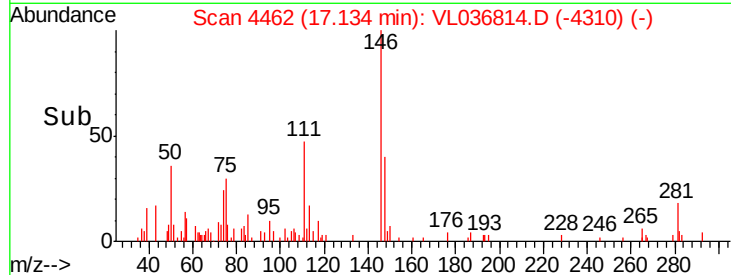
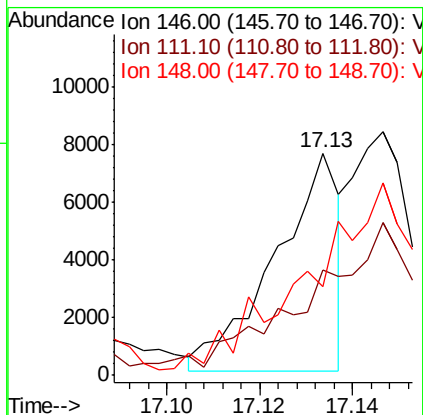
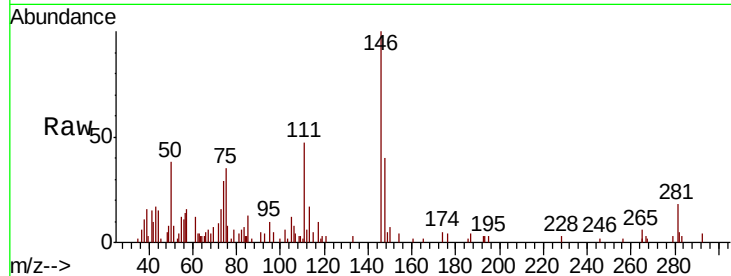
Tot Ion:146 Resp: 7290

Ion Ratio Lower Upper

146 100

111 0.0 24.3 72.8#

148 0.0 33.0 98.9#



#77

1,2-Dichlorobenzene

Concen: 0.056 ppbv

RT: 17.82 min Scan# 4677

Delta R.T. -0.00 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

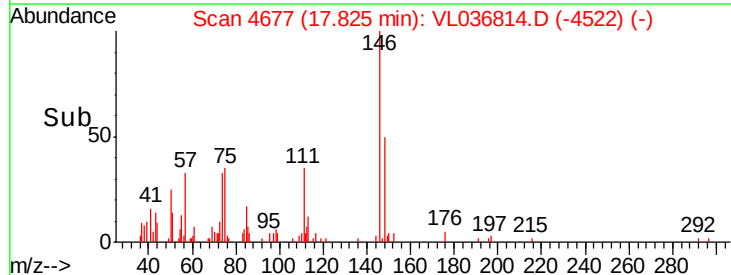
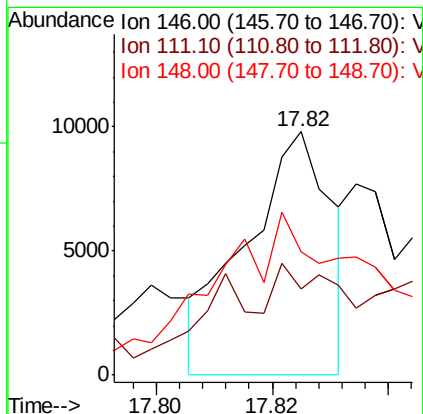
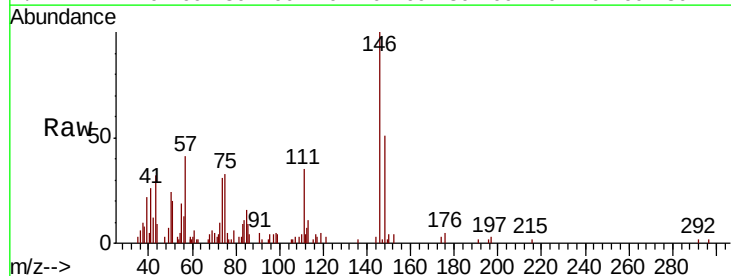
Tgt Ion:146 Resp: 10051

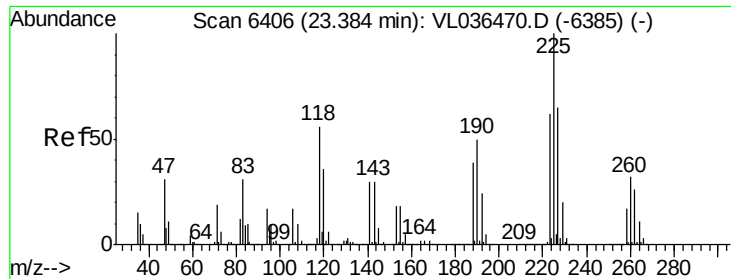
Ion Ratio Lower Upper

146 100

111 139.4 25.5 76.5#

148 183.4 32.9 98.6#





#78
 Hexachloro-1,3-Butadiene
 Concen: 0.031 ppbv
 RT: 23.36
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 23.18

Tot Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.6	75.8#
227	0.0	52.2	78.2#

