

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032222\
 Data File : VL038691.D
 Acq On : 22 Mar 2022 19:44
 Operator : SY/AP
 Sample : N1961-12DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P75DL

Quant Time: Mar 23 04:14:55 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	881077	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2345082	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2042886	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1480804	9.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.50%

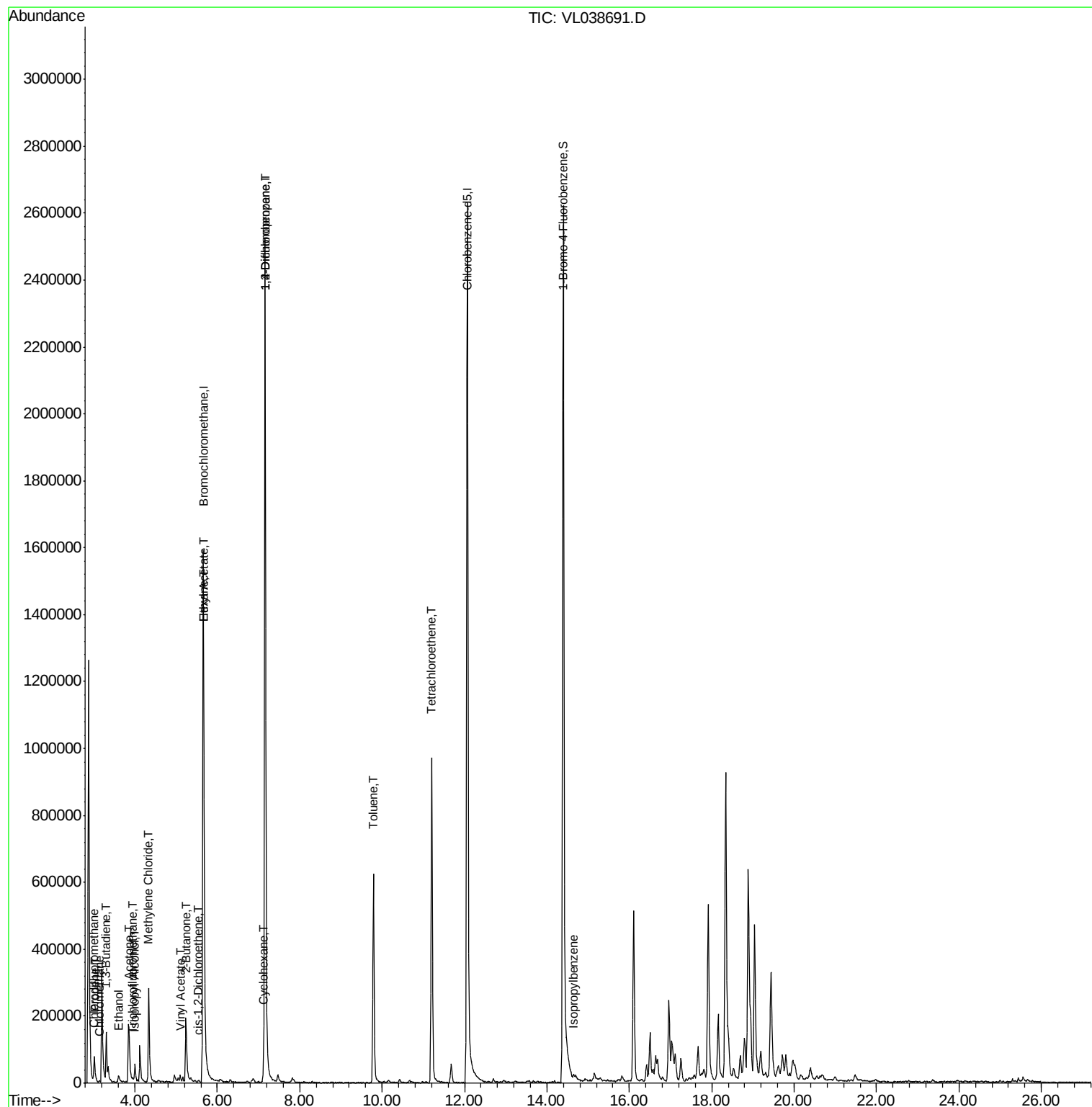
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	13288	0.14	ppbv	96
4) Chloromethane	3.14	50	4013	0.08	ppbv	96
9) Propene	3.01	41	36933	0.82	ppbv	91
11) Trichlorofluoromethane	3.94	101	2629	0.03	ppbv	88
13) Ethanol	3.61	45	24184	4.88	ppbv	82
15) Acetone	3.84	43	228044	3.00	ppbv #	84
16) 1,3-Butadiene	3.30	39	38173	0.88	ppbv #	14
19) Isopropyl Alcohol	3.97	45	6263	0.15	ppbv #	91
20) Methylene Chloride	4.33	84	120791	3.77	ppbv	96
23) Vinyl Acetate	5.10	43	7723	0.10	ppbv #	8
25) Ethyl Acetate	5.68	43	122462	0.64	ppbv #	78
26) Hexane	5.68	57	171855	2.01	ppbv #	40
30) Cyclohexane	7.12	84	2622	0.04	ppbv #	1
31) cis-1,2-Dichloroethene	5.54	61	1867	0.02	ppbv #	80
34) 2-Butanone	5.24	43	279350	3.01	ppbv	96
39) 1,2-Dichloropropane	7.16	63	528631	7.47	ppbv #	28
52) Tetrachloroethene	11.20	164	280496	4.24	ppbv	98
53) Toluene	9.79	91	556727	2.86	ppbv	100
62) Isopropylbenzene	14.65	105	12177	0.04	ppbv	96

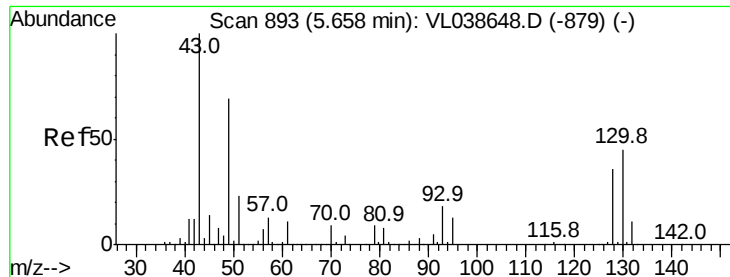
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Mar 2022 19:44

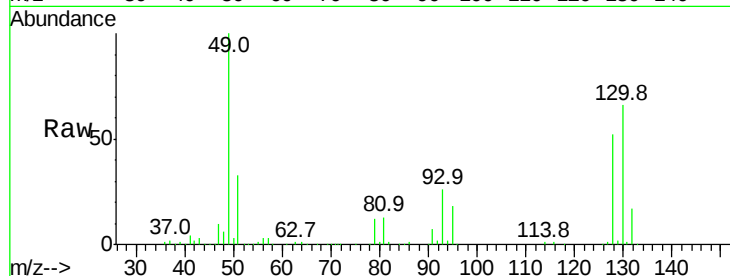
Tgt Ion: 49 Resp: 881077

Ion Ratio Lower Upper

49 100

128 54.2 26.2 78.6

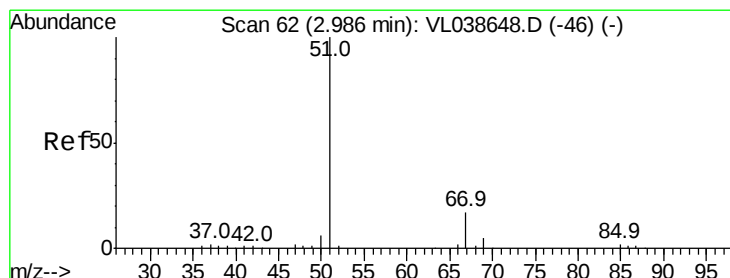
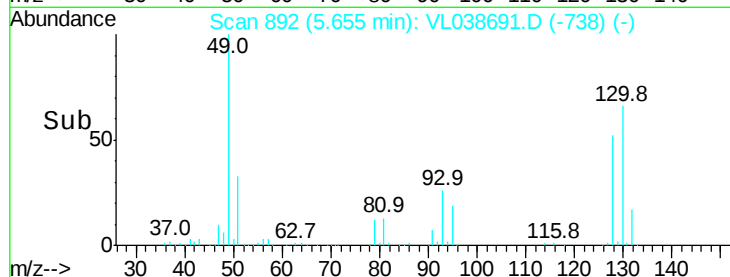
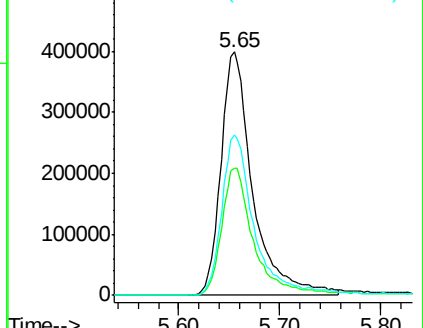
130 68.6 33.7 101.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.14 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL038691.D

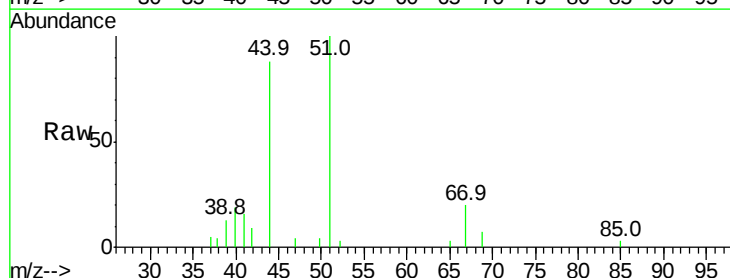
Acq: 22 Mar 2022 19:44

Tgt Ion: 51 Resp: 13288

Ion Ratio Lower Upper

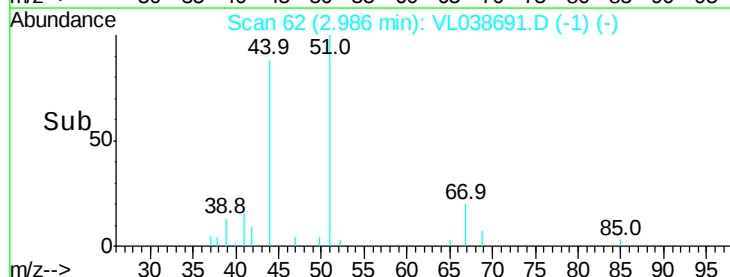
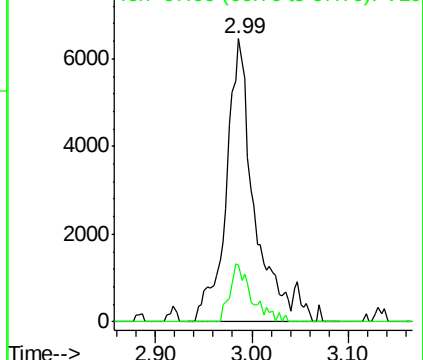
51 100

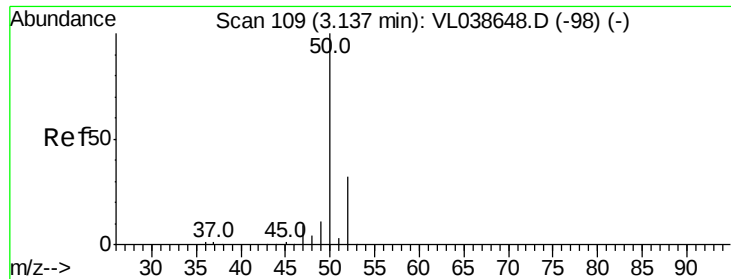
67 15.7 14.1 21.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.08 ppbv

RT: 3.14 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: C0P75DL

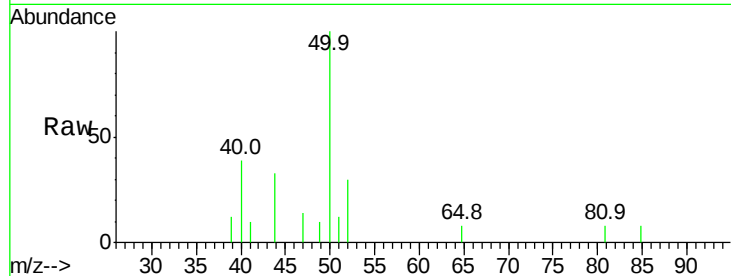
Acq: 22 Mar 2022 19:44

Tgt Ion: 50 Resp: 4013

Ion Ratio Lower Upper

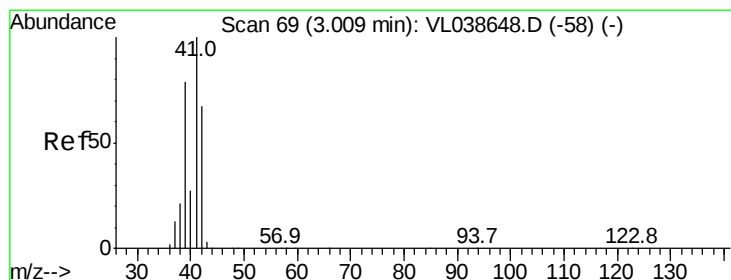
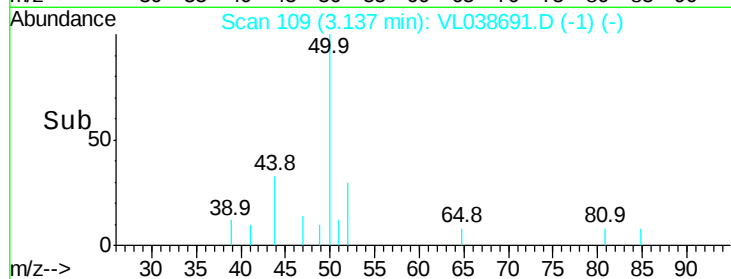
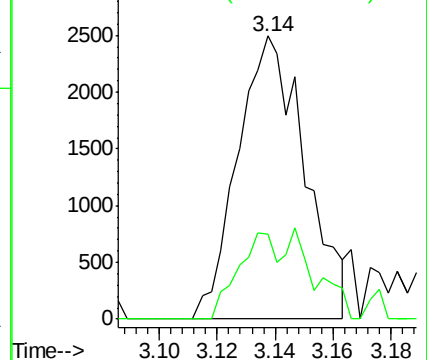
50 100

52 29.9 25.5 38.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.82 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL038691.D

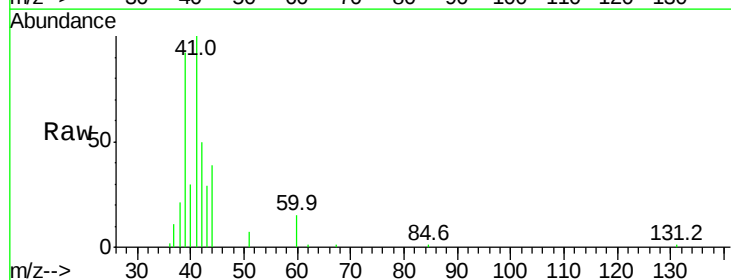
Acq: 22 Mar 2022 19:44

Tgt Ion: 41 Resp: 36933

Ion Ratio Lower Upper

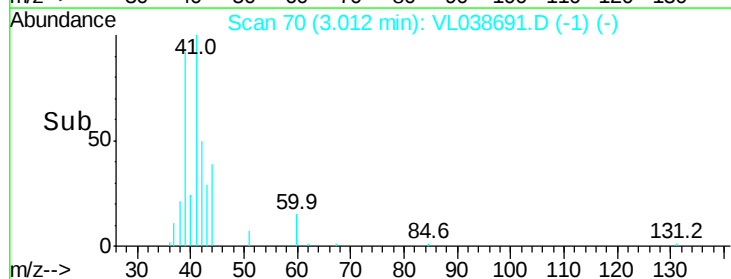
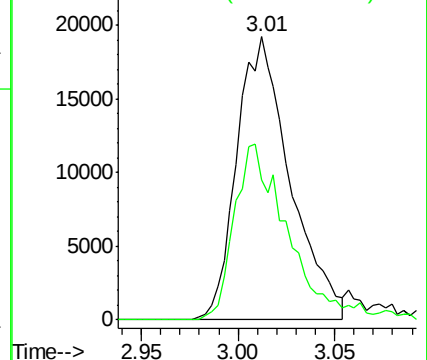
41 100

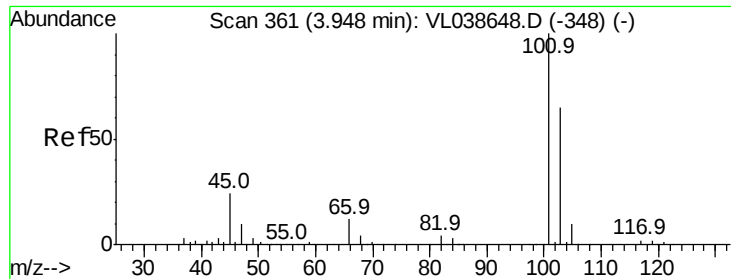
42 63.2 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

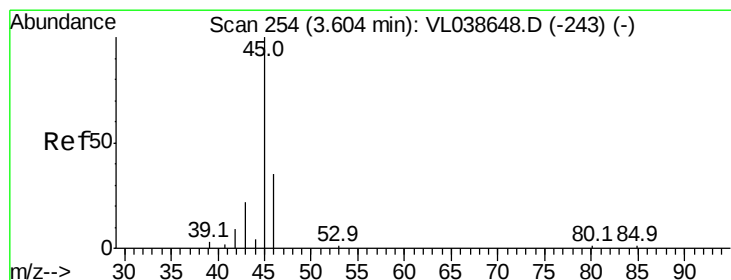
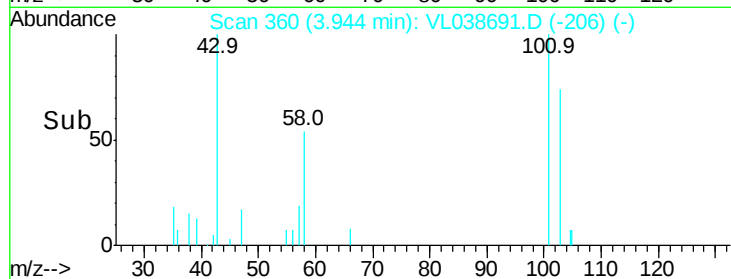
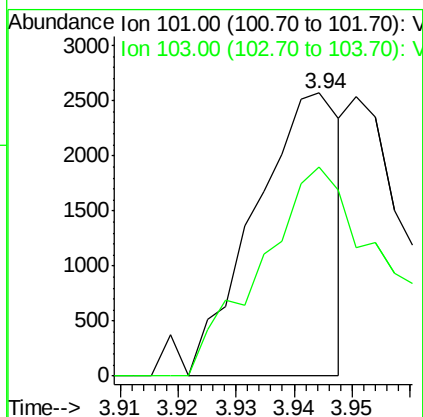
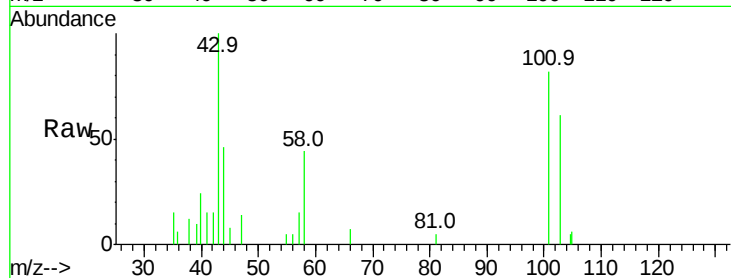
Ion 42.10 (41.80 to 42.80): VL0





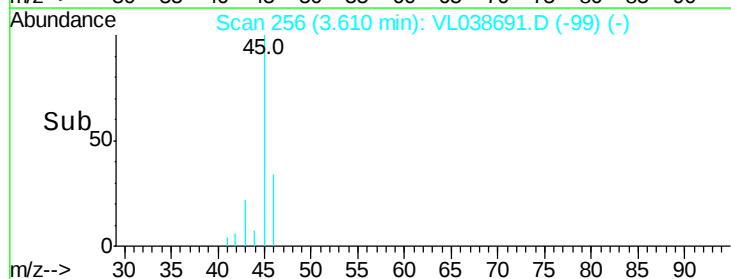
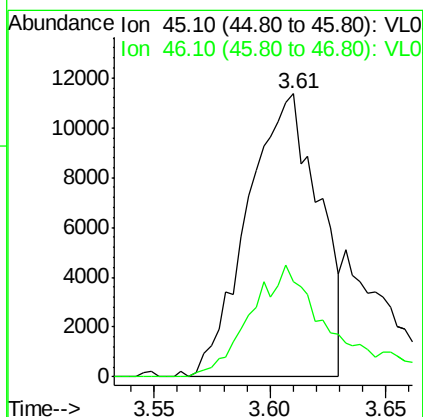
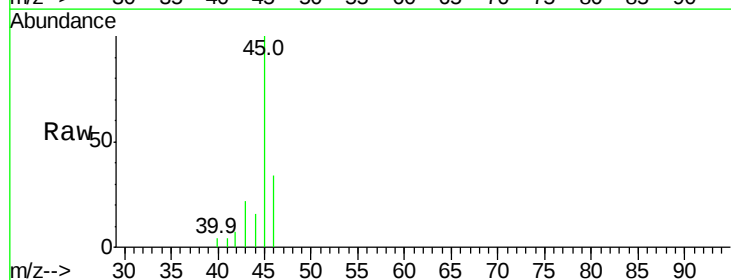
#11
 Trichlorofluoromethane
 Concen: 0.03 ppbv
 RT: 3.94
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 C0P75DL
 Acq: 22 Mar 2022 19:44

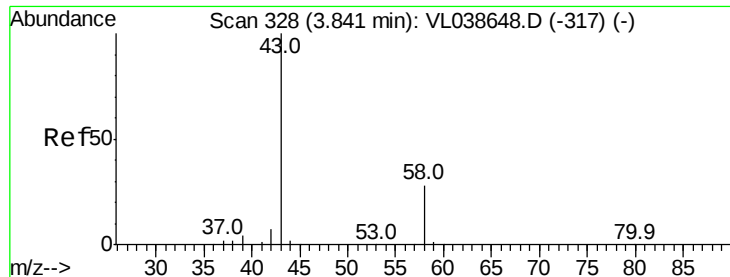
Tgt Ion: 101 Resp: 2629
 Ion Ratio Lower Upper
 101 100
 103 74.0 51.9 77.9



#13
 Ethanol
 Concen: 4.88 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.01 min
 Lab File: VL038691.D
 Acq: 22 Mar 2022 19:44

Tgt Ion: 45 Resp: 24184
 Ion Ratio Lower Upper
 45 100
 46 48.8 15.1 60.5





#15

Acetone

Concen: 3.00 ppbv

RT: 3.84 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: C0P75DL

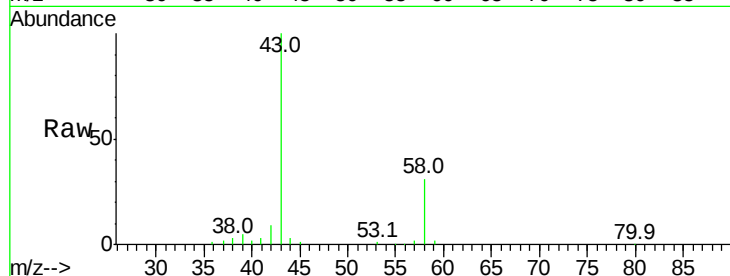
Acq: 22 Mar 2022 19:44

Tgt Ion: 43 Resp: 228044

Ion Ratio Lower Upper

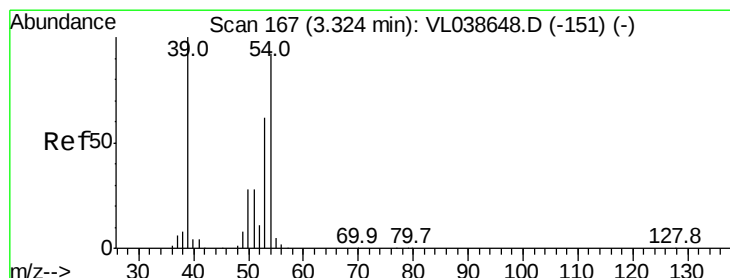
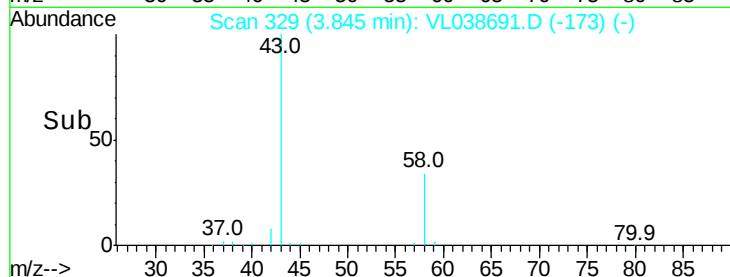
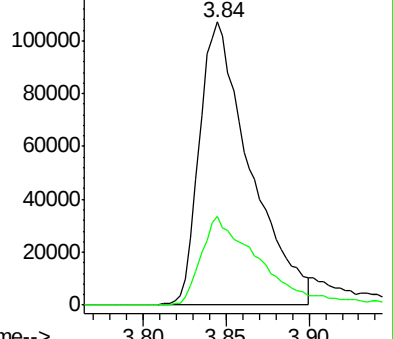
43 100

58 37.7 23.3 34.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.88 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.02 min

Lab File: VL038691.D

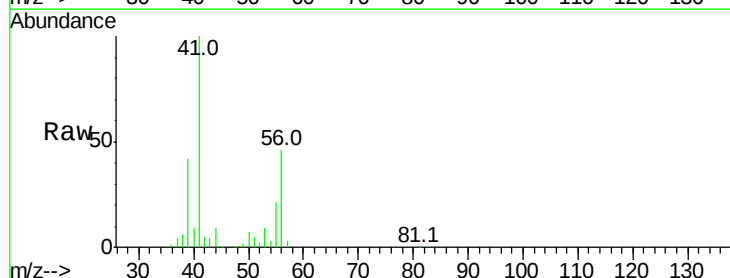
Acq: 22 Mar 2022 19:44

Tgt Ion: 39 Resp: 38173

Ion Ratio Lower Upper

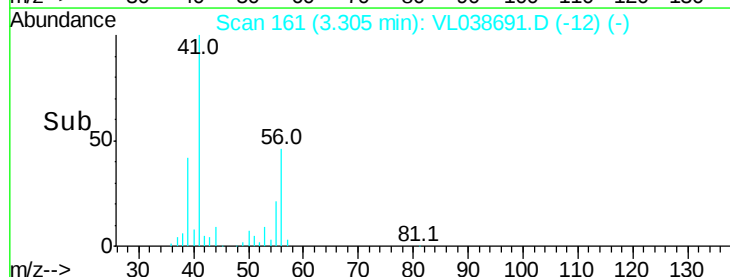
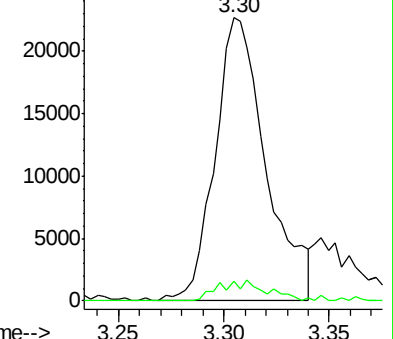
39 100

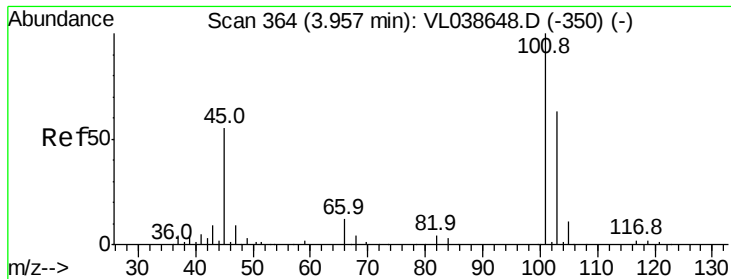
54 7.0 69.1 103.7#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 0.15 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

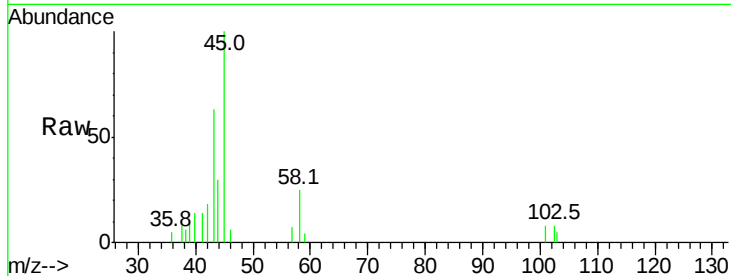
Acq: 22 Mar 2022 19:44

Tgt Ion: 45 Resp: 6263

Ion Ratio Lower Upper

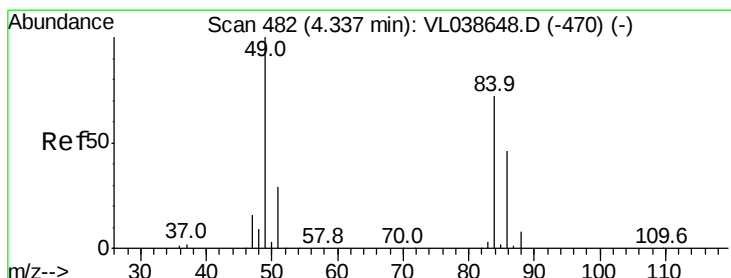
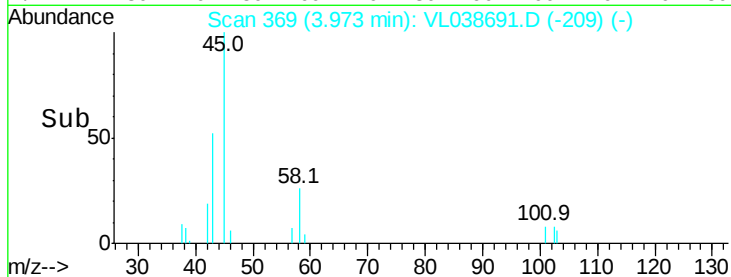
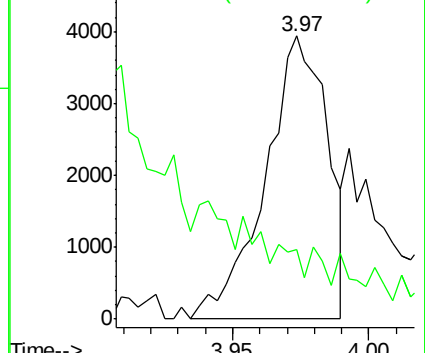
45 100

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: 3.77 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.00 min

Lab File: VL038691.D

Acq: 22 Mar 2022 19:44

Tgt Ion: 84 Resp: 120791

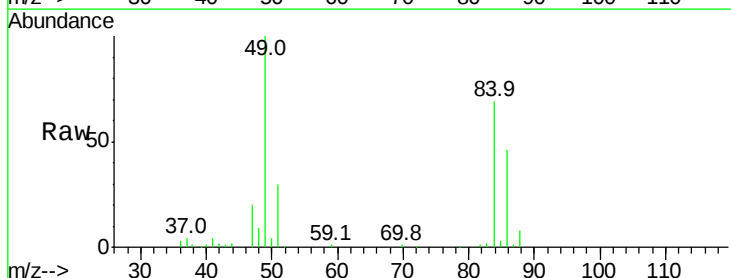
Ion Ratio Lower Upper

84 100

49 143.6 111.2 166.8

51 43.7 32.8 49.2

86 67.0 51.4 77.0

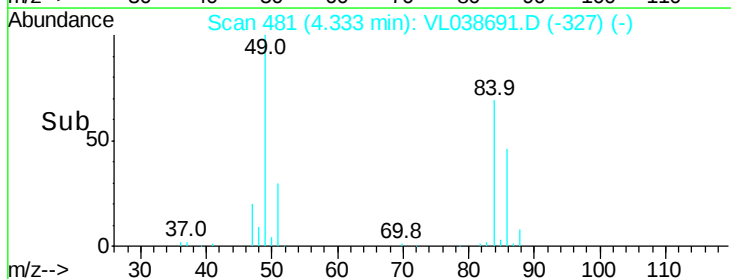
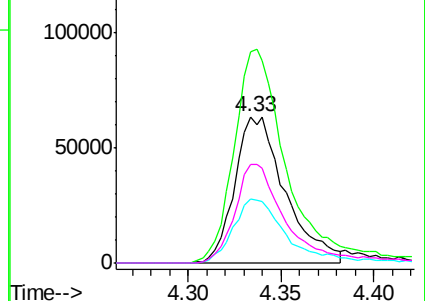


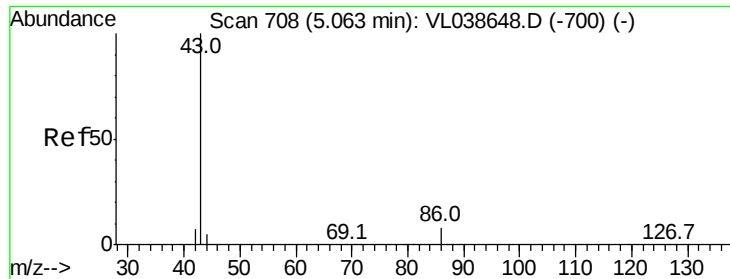
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

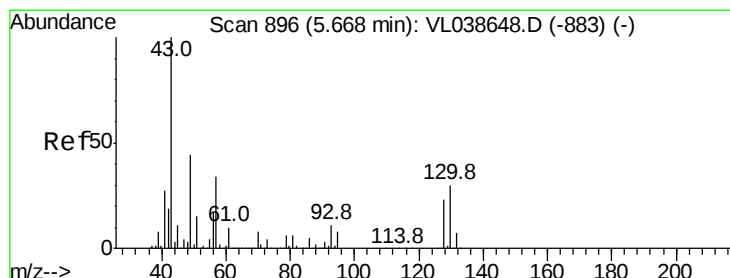
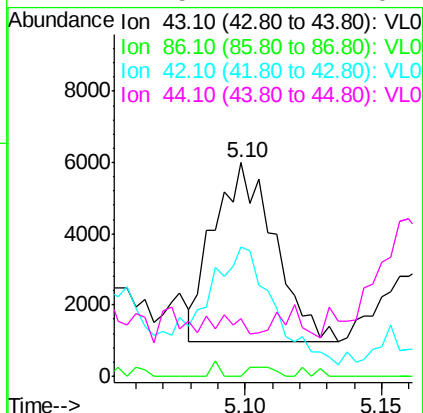
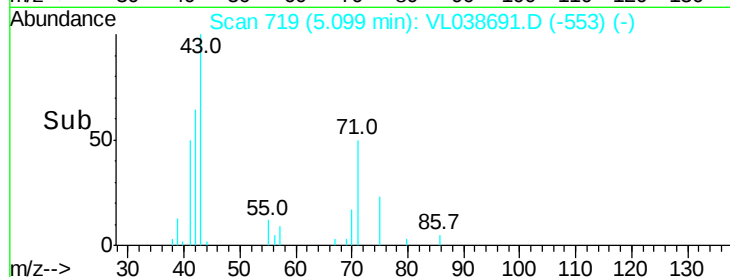
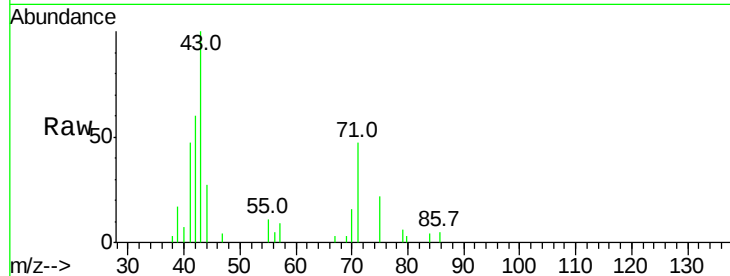
Ion 86.00 (85.70 to 86.70): VL0





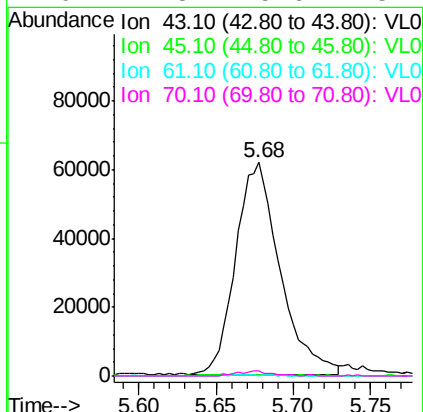
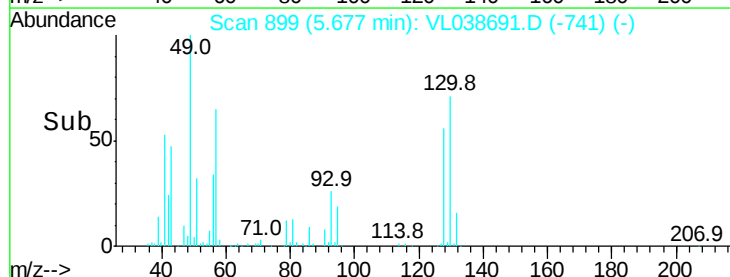
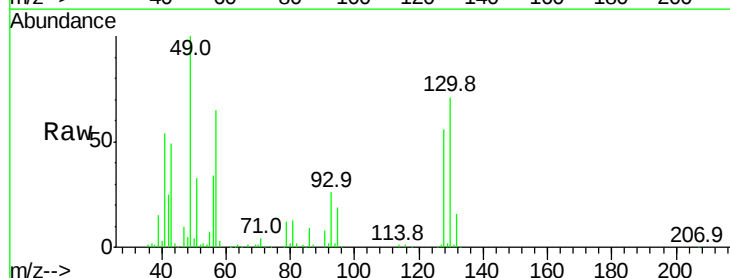
#23
 Vinyl Acetate
 Concen: 0.10 ppbv
 RT: 5.10
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 COP75DL
 Acq: 22 Mar 2022 19:44

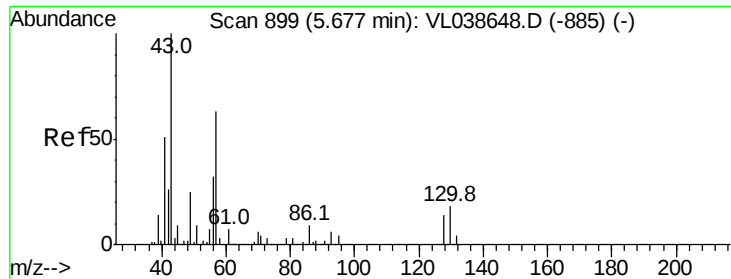
Tgt Ion: 43 Resp: 7723
 Ion Ratio Lower Upper
 43 100
 86 0.0 5.6 8.4#
 42 80.6 6.8 10.2#
 44 1.5 4.2 6.2#



#25
 Ethyl Acetate
 Concen: 0.64 ppbv
 RT: 5.68 min Scan# 899
 Delta R.T. 0.01 min
 Lab File: VL038691.D
 Acq: 22 Mar 2022 19:44

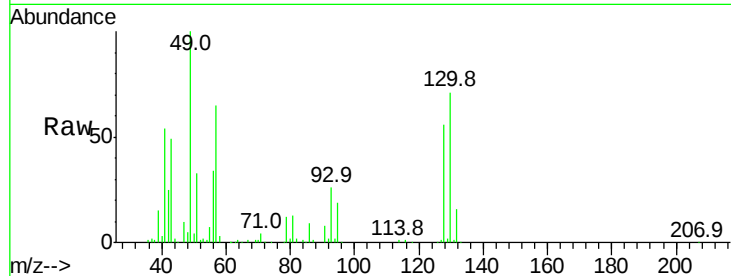
Tgt Ion: 43 Resp: 122462
 Ion Ratio Lower Upper
 43 100
 45 1.6 8.2 12.4#
 61 0.7 8.3 12.5#
 70 1.8 5.6 8.4#



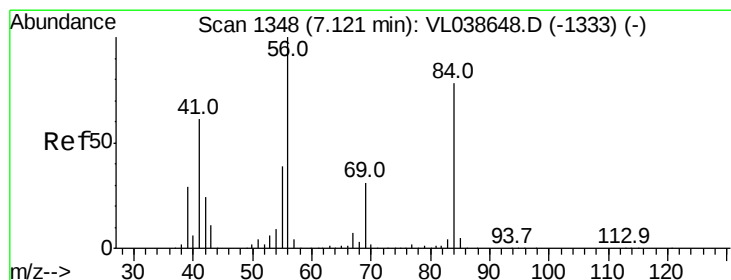
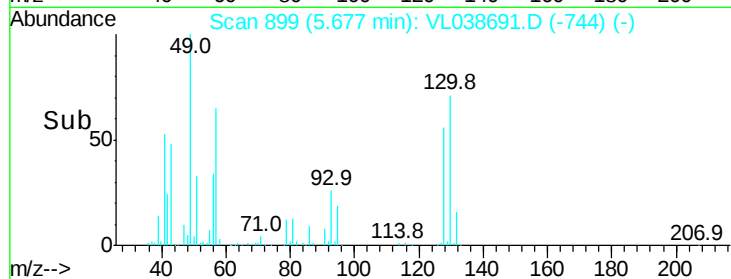
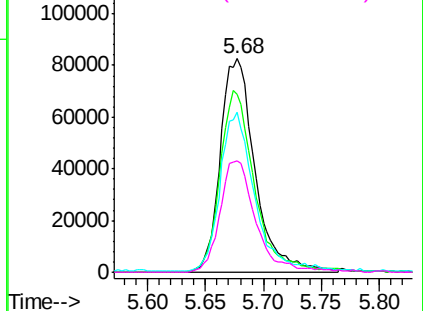


#26
Hexane
Concen: 2.01 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Mar 2022 19:44

Tgt Ion: 57 Resp: 171855
Ion Ratio Lower Upper
57 100
41 85.4 67.0 100.4
43 74.4 184.2 276.2#
56 54.2 42.6 64.0

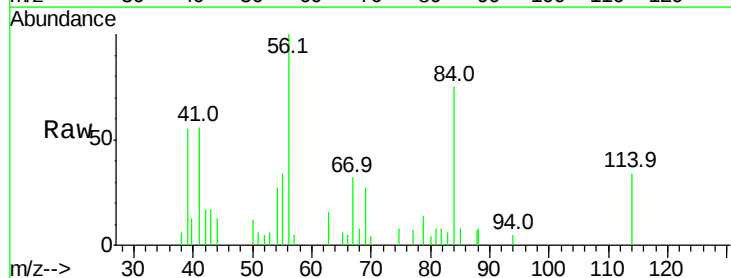


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

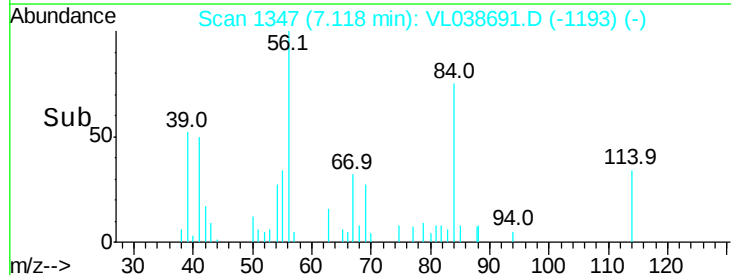
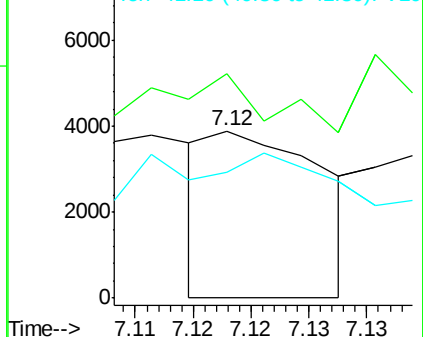


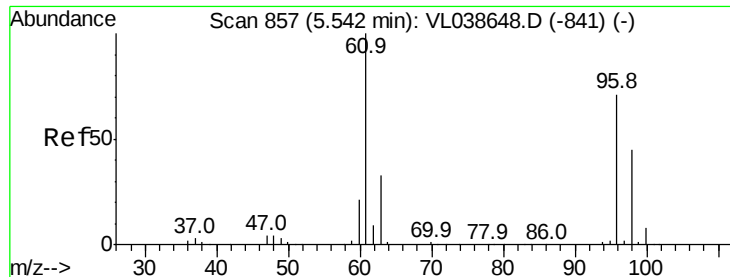
#30
Cyclohexane
Concen: 0.04 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.00 min
Lab File: VL038691.D
Acq: 22 Mar 2022 19:44

Tgt Ion: 84 Resp: 2622
Ion Ratio Lower Upper
84 100
56 0.0 108.2 162.4#
41 344.4 61.8 92.6#



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.02 ppbv

RT: 5.54 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Mar 2022 19:44 COP75DL

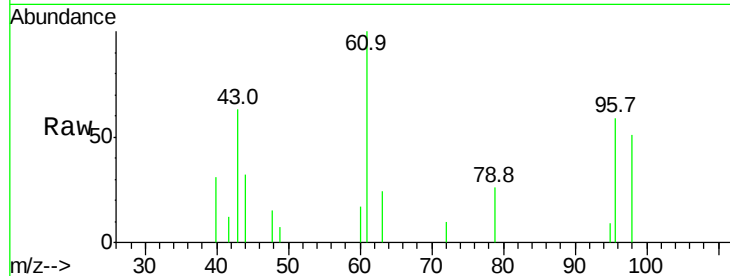
Tgt Ion: 61 Resp: 1867

Ion Ratio Lower Upper

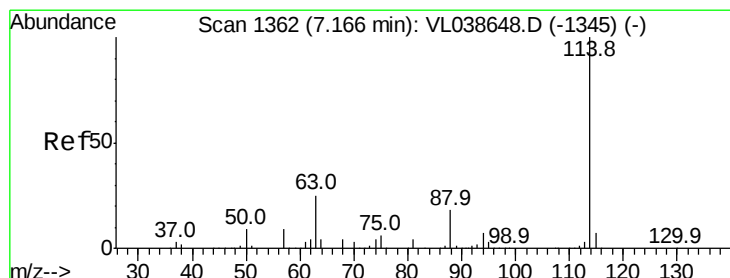
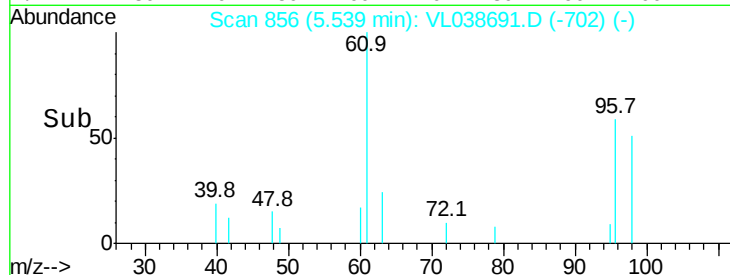
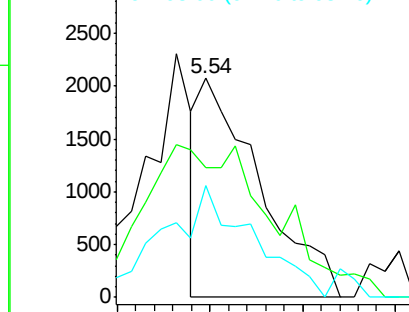
61 100

96 49.1 56.6 84.8#

98 38.3 36.3 54.5



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



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VL038691.D

Acq: 22 Mar 2022 19:44

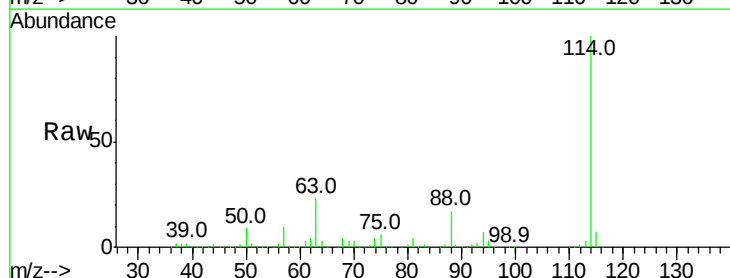
Tgt Ion: 114 Resp: 2345082

Ion Ratio Lower Upper

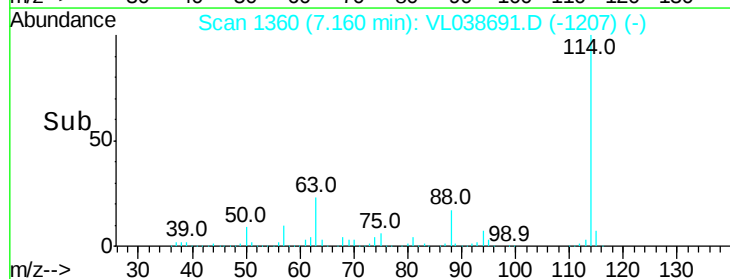
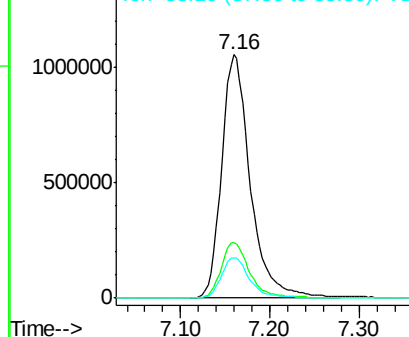
114 100

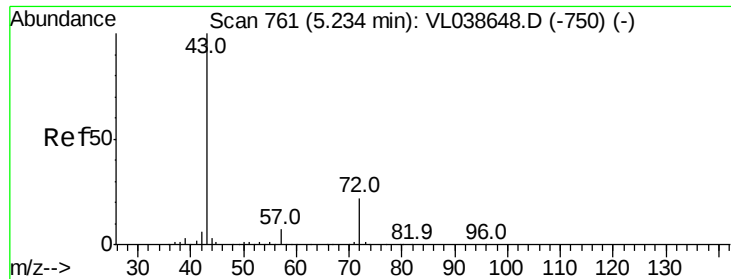
63 22.9 19.4 29.0

88 16.8 13.9 20.9



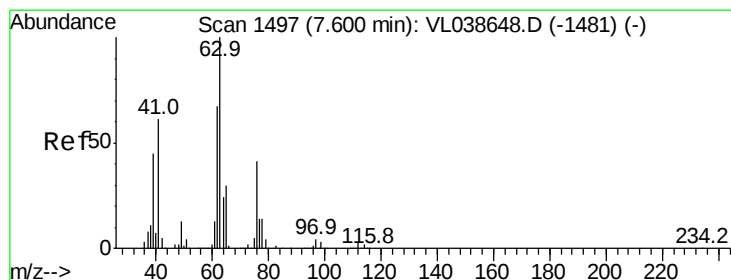
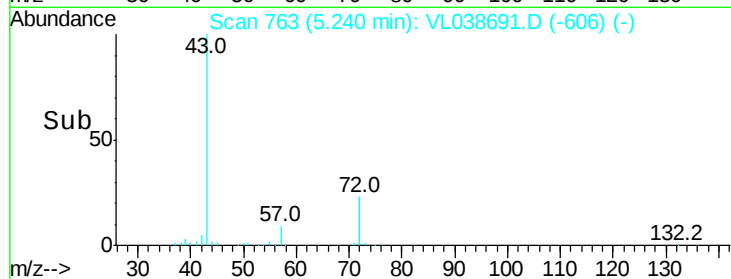
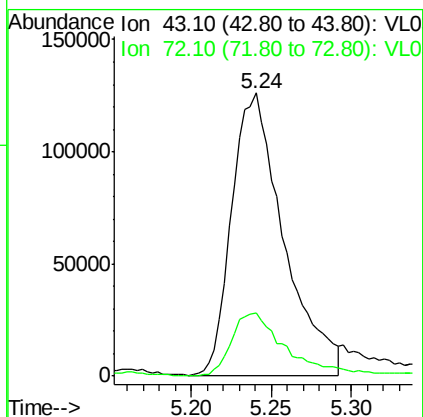
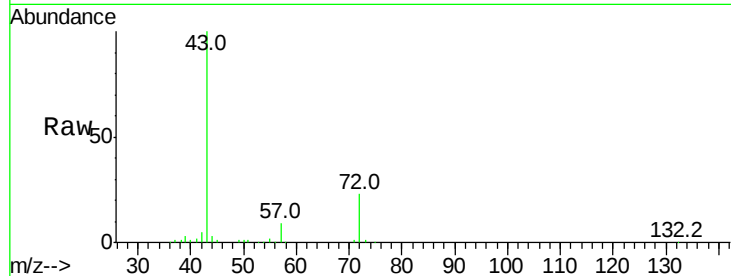
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





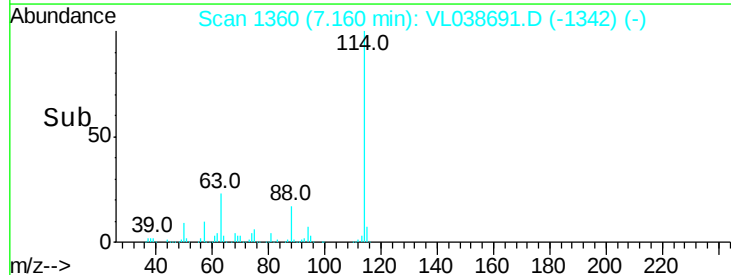
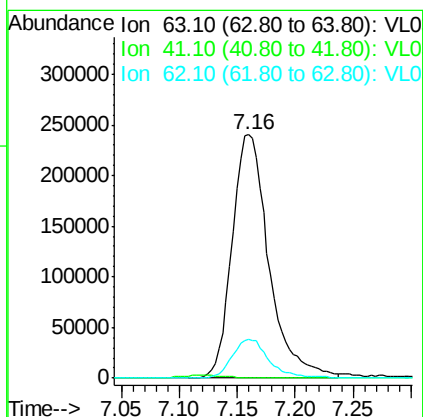
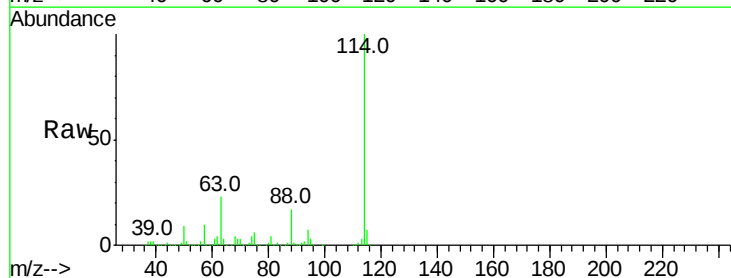
#34
2-Butanone
Concen: 3.01 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Mar 2022 19:44

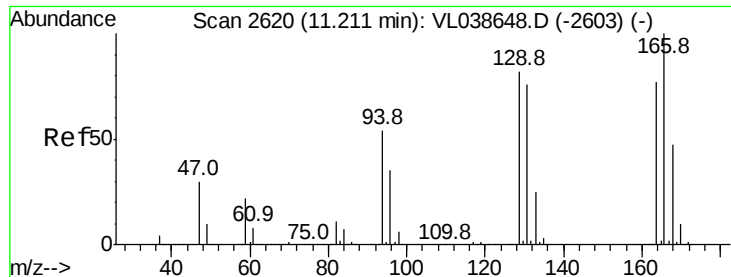
Tgt Ion: 43 Resp: 279350
Ion Ratio Lower Upper
43 100
72 24.2 17.8 26.8



#39
1,2-Dichloropropane
Concen: 7.47 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.44 min
Lab File: VL038691.D
Acq: 22 Mar 2022 19:44

Tgt Ion: 63 Resp: 528631
Ion Ratio Lower Upper
63 100
41 0.1 49.0 73.6#
62 15.9 53.9 80.9#





#52

Tetrachloroethene

Concen: 4.24 ppbv

RT: 11.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Mar 2022 19:44

Tgt Ion: 164 Resp: 280496

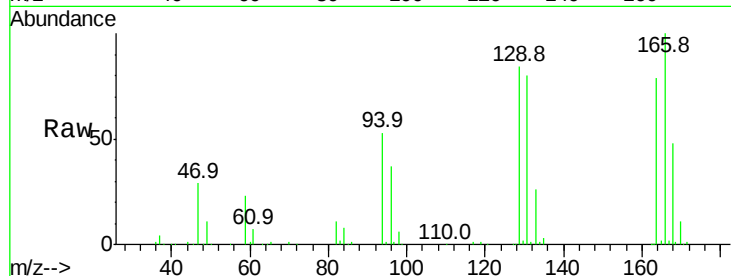
Ion Ratio Lower Upper

164 100

166 126.0 103.3 154.9

129 105.2 85.2 127.8

131 101.4 78.3 117.5

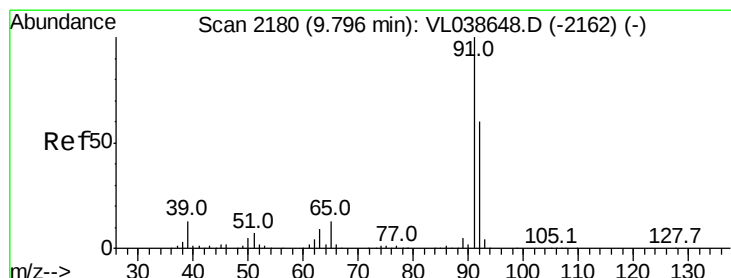
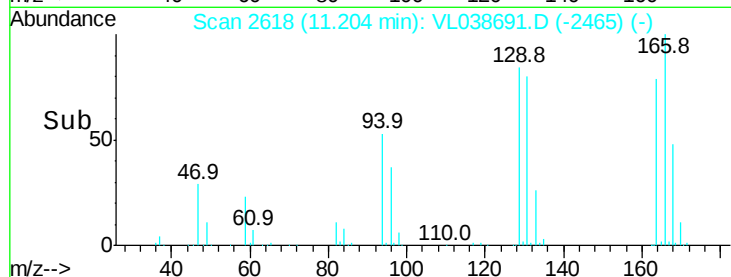
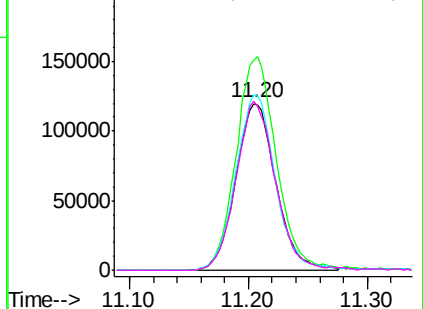


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 2.86 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL038691.D

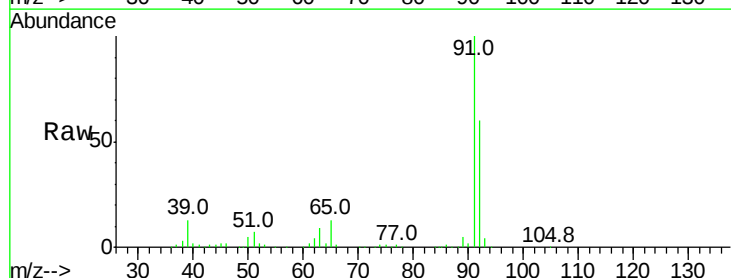
Acq: 22 Mar 2022 19:44

Tgt Ion: 91 Resp: 556727

Ion Ratio Lower Upper

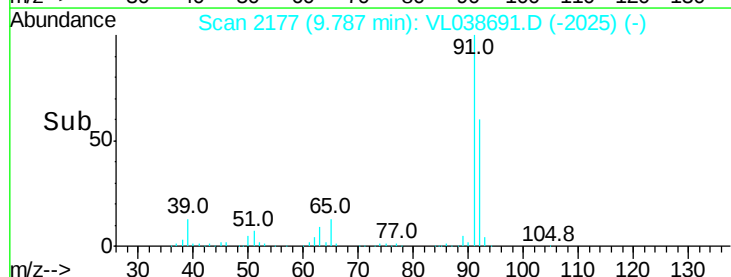
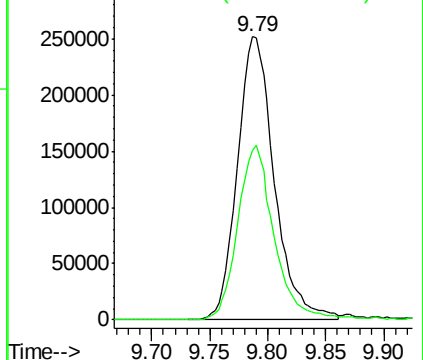
91 100

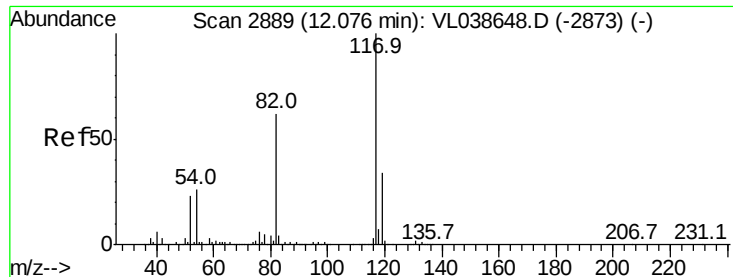
92 60.9 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

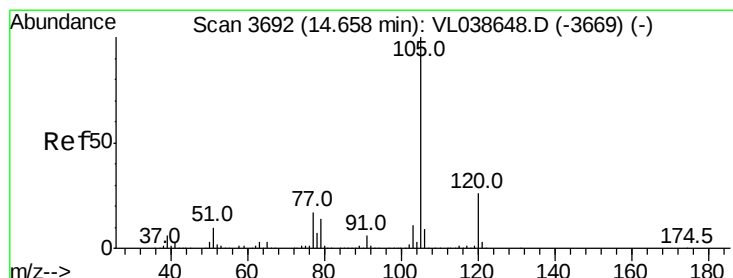
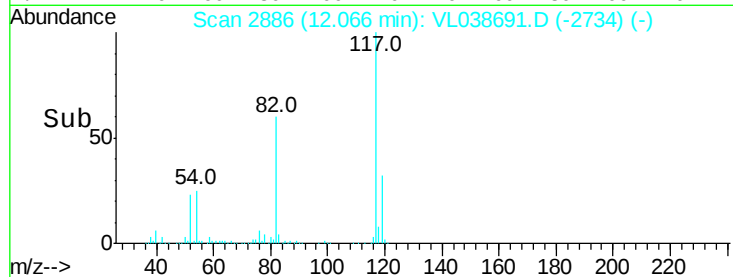
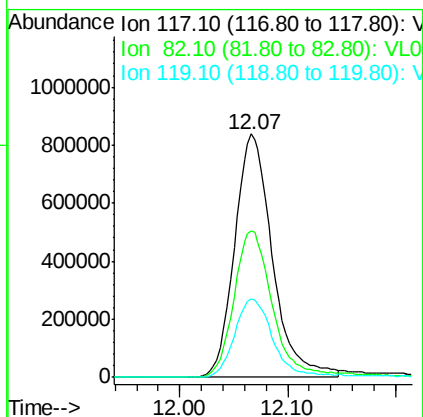
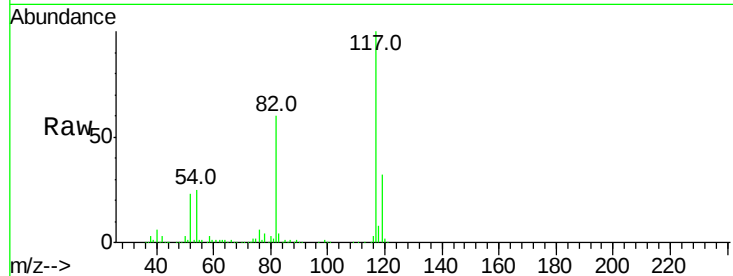
Ion 92.10 (91.80 to 92.80): VL0





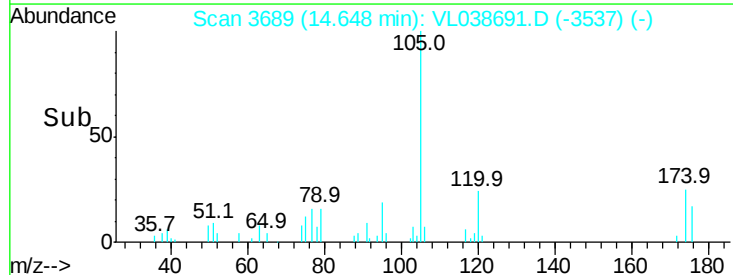
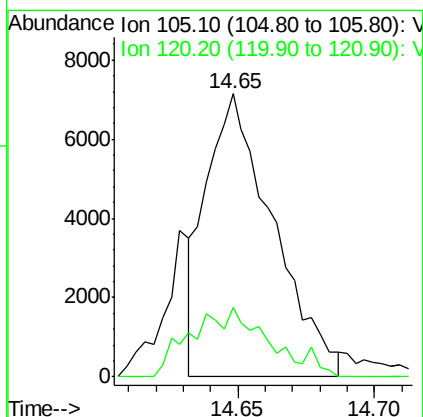
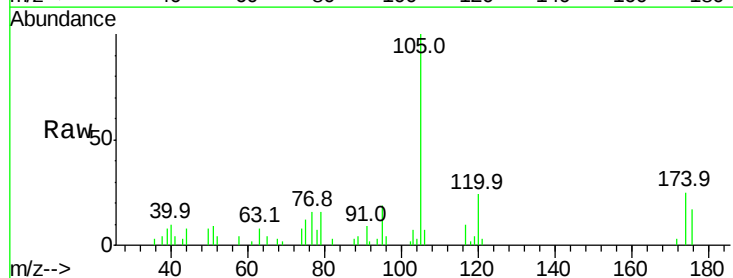
#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.07 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 C0P75DL
 Acq: 22 Mar 2022 19:44

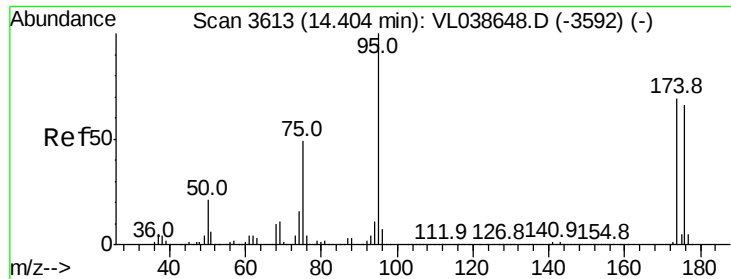
Tgt Ion: 117 Resp: 2042886
 Ion Ratio Lower Upper
 117 100
 82 64.4 51.6 77.4
 119 34.1 26.9 40.3



#62
 Isopropylbenzene
 Concen: 0.04 ppbv
 RT: 14.65 min Scan# 3689
 Delta R.T.: -0.01 min
 Lab File: VL038691.D
 Acq: 22 Mar 2022 19:44

Tgt Ion: 105 Resp: 12177
 Ion Ratio Lower Upper
 105 100
 120 28.8 21.2 31.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.45 ppbv

RT: 14.39

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Mar 2022 19:44

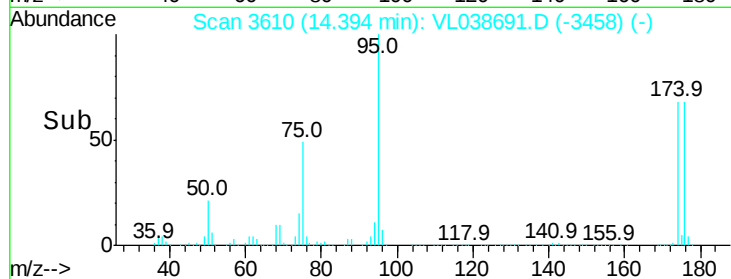
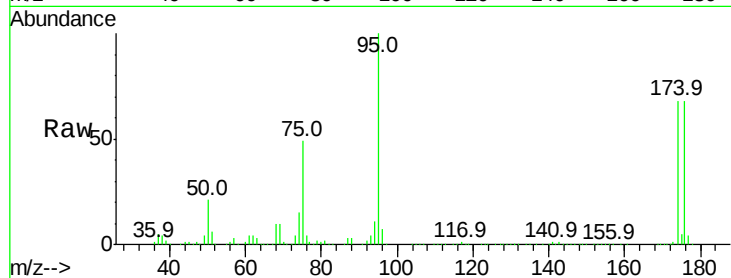
Tgt Ion: 95 Resp: 1480804

Ion Ratio Lower Upper

95 100

174 75.3 56.1 84.1

175 5.6 4.2 6.2



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

