

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032222\
 Data File : VL038704.D
 Acq On : 23 Mar 2022 4:20
 Operator : SY/AP
 Sample : N2046-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P90DL

Quant Time: Mar 23 07:07:19 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	764923	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	2167175	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	1912201	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1372479	9.36	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

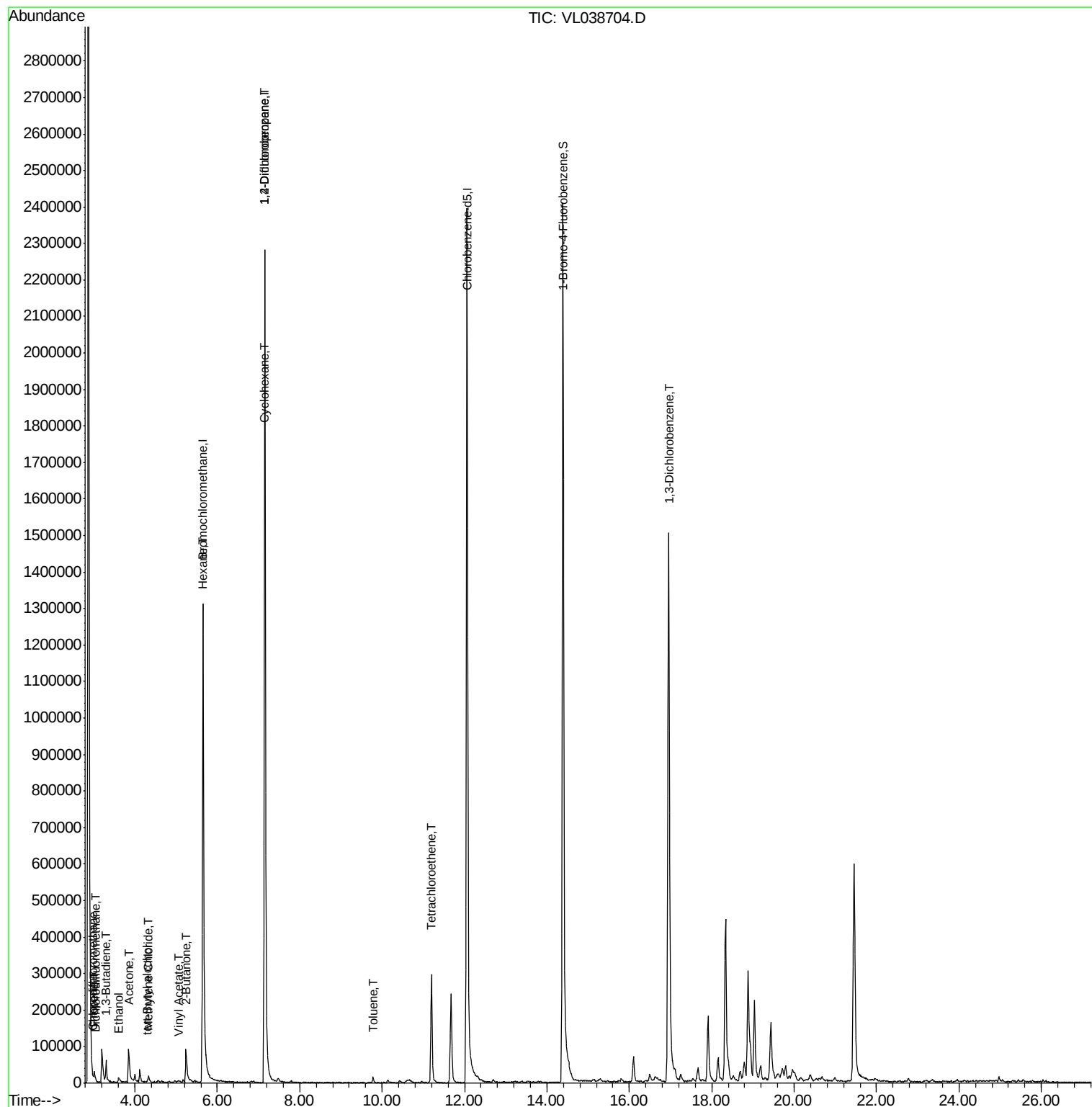
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	6138	0.06	ppbv #	82
3) Chlorodifluoromethane	2.99	51	2690	0.03	ppbv #	87
9) Propene	3.01	41	12305	0.32	ppbv	91
13) Ethanol	3.60	45	8099	1.88	ppbv #	42
15) Acetone	3.85	43	127333	1.93	ppbv #	85
16) 1,3-Butadiene	3.30	39	15006	0.40	ppbv #	13
17) tert-Butyl alcohol	4.30	59	2599	0.05	ppbv #	75
20) Methylene Chloride	4.34	84	2006	0.07	ppbv	88
23) Vinyl Acetate	5.06	43	2265	0.04	ppbv #	60
26) Hexane	5.66	57	2221	0.03	ppbv #	1
30) Cyclohexane	7.13	84	1757	0.03	ppbv #	2
34) 2-Butanone	5.24	43	141760	1.65	ppbv	94
39) 1,2-Dichloropropane	7.15	63	466877	7.14	ppbv #	28
52) Tetrachloroethene	11.20	164	86589	1.41	ppbv	93
53) Toluene	9.78	91	7505	0.04	ppbv #	49
75) 1,3-Dichlorobenzene	16.97	146	6322	0.05	ppbv #	1

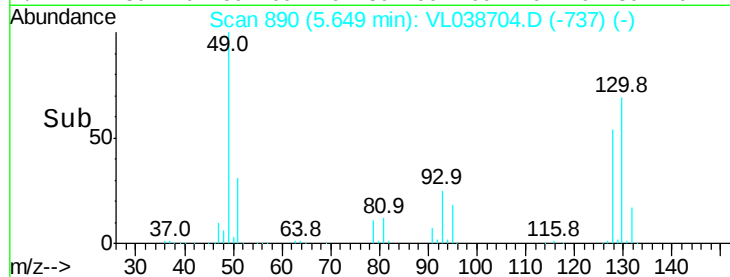
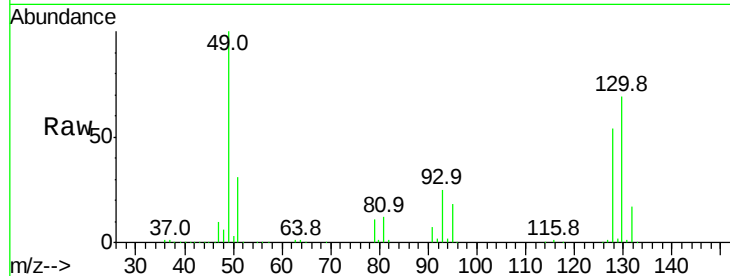
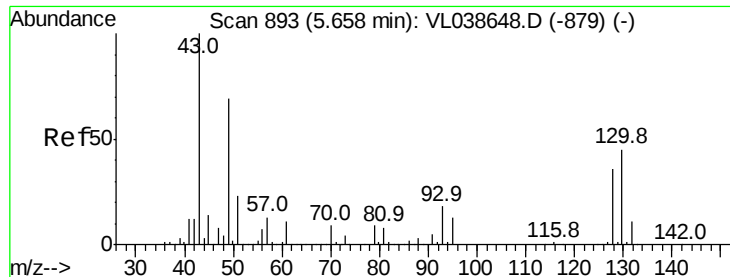
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COP90DL

Acq: 23 Mar 2022 4:20

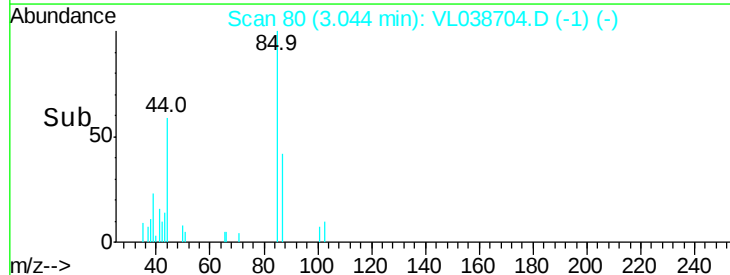
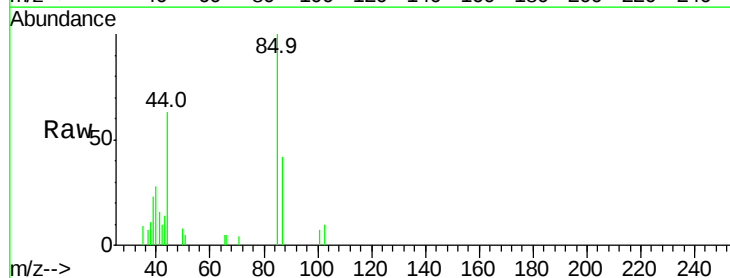
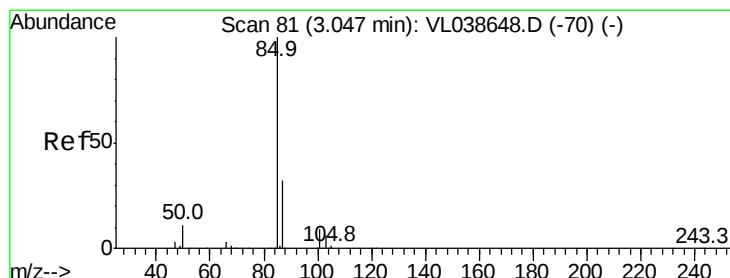
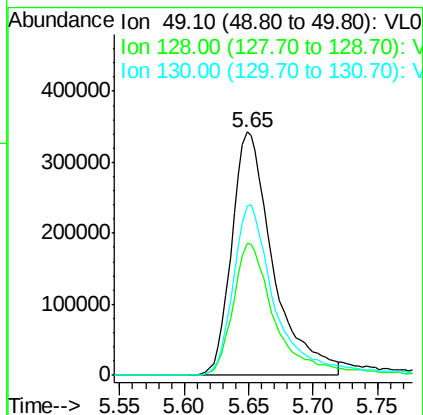
Tgt Ion: 49 Resp: 764923

Ion Ratio Lower Upper

49 100

128 57.5 26.2 78.6

130 73.9 33.7 101.1



#2

Dichlorodifluoromethane

Concen: 0.06 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL038704.D

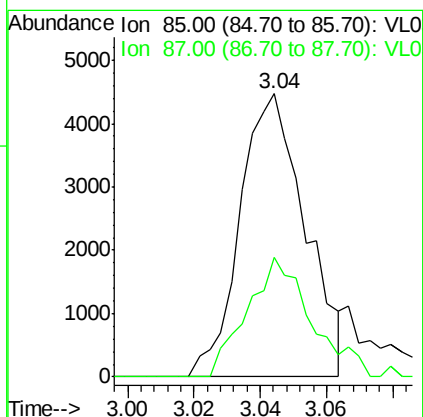
Acq: 23 Mar 2022 4:20

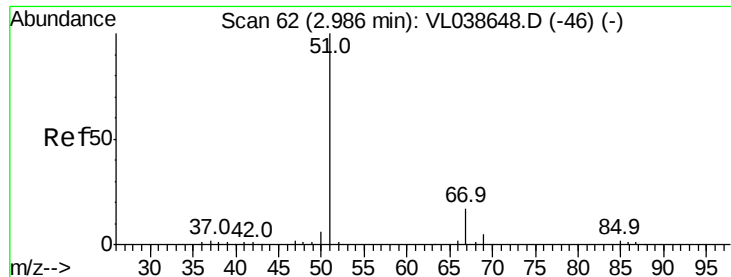
Tgt Ion: 85 Resp: 6138

Ion Ratio Lower Upper

85 100

87 42.4 26.0 39.0#





#3

Chlorodifluoromethane

Concen: 0.03 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: COP90DL

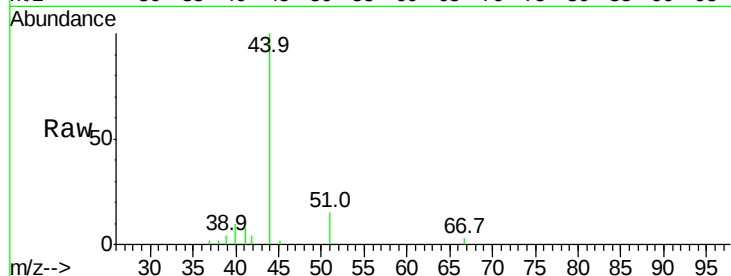
Acq: 23 Mar 2022 4:20

Tgt Ion: 51 Resp: 2690

Ion Ratio Lower Upper

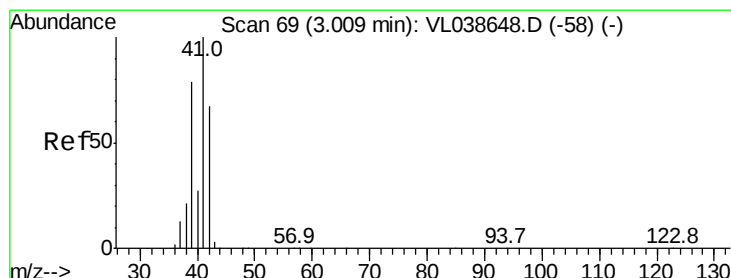
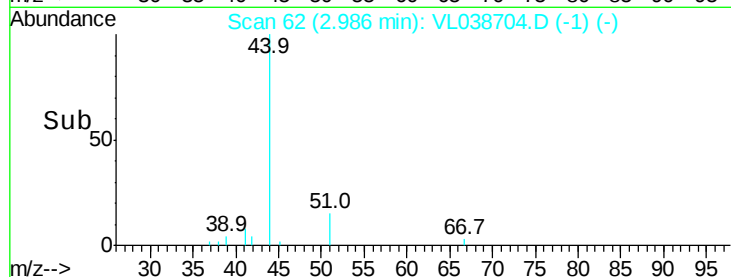
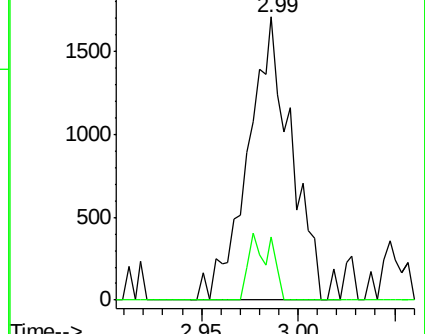
51 100

67 11.8 14.1 21.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.32 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL038704.D

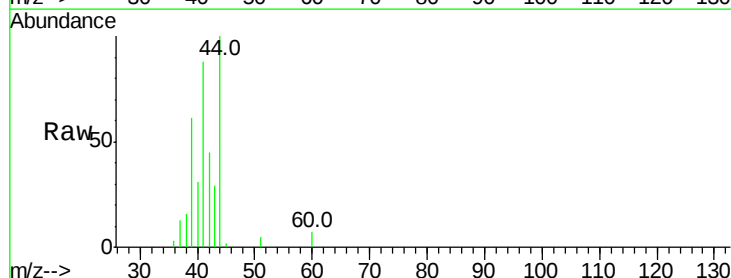
Acq: 23 Mar 2022 4:20

Tgt Ion: 41 Resp: 12305

Ion Ratio Lower Upper

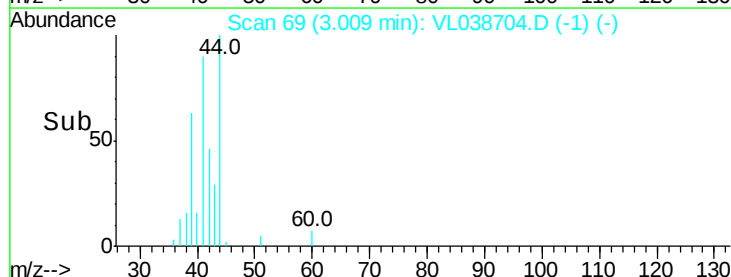
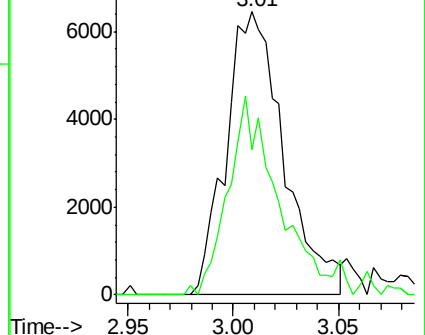
41 100

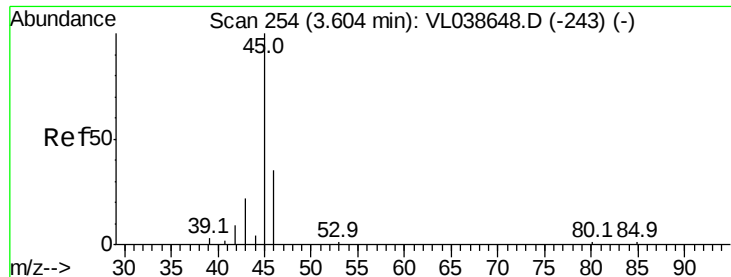
42 62.9 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

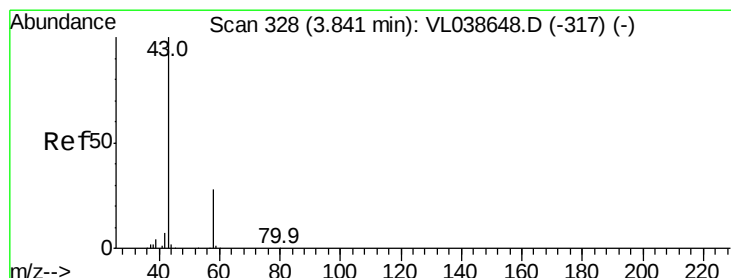
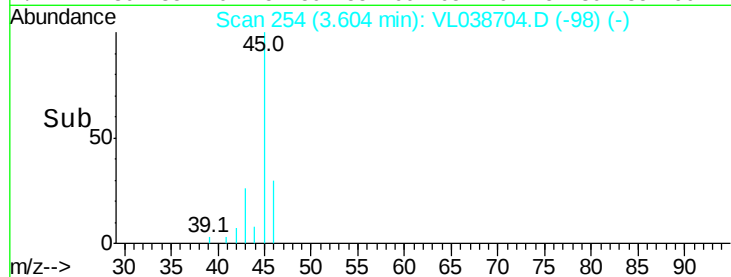
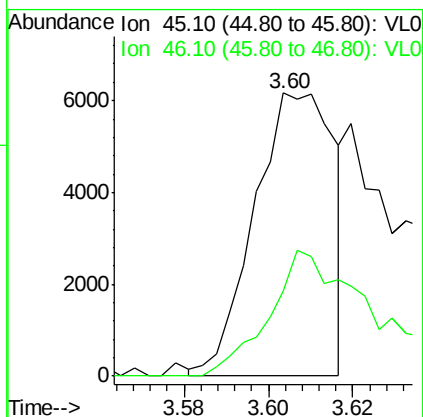
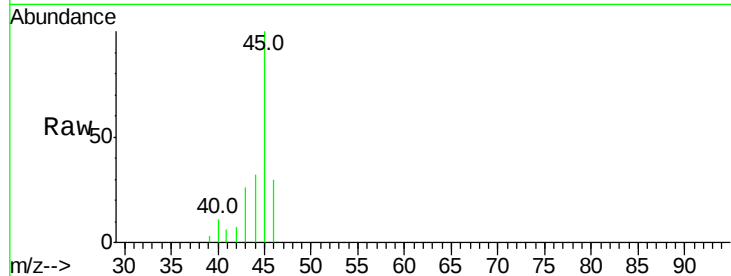
Ion 42.10 (41.80 to 42.80): VL0





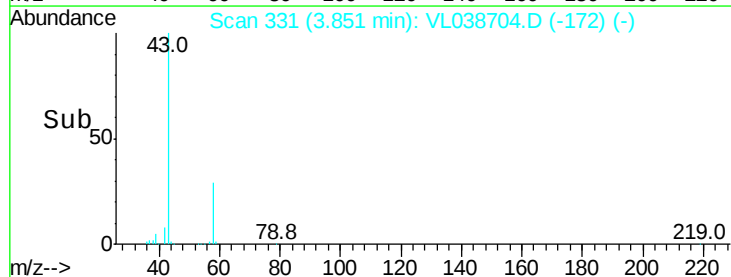
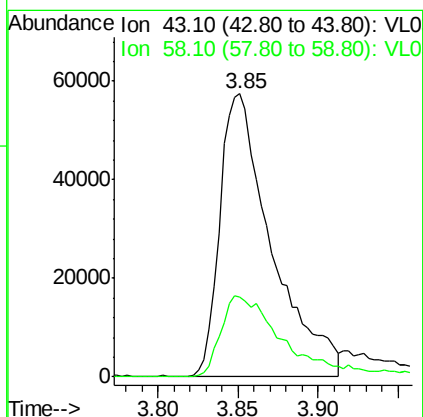
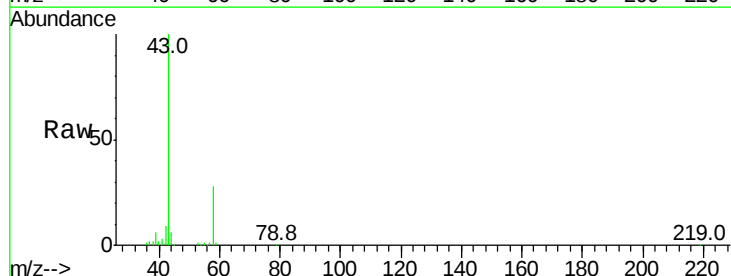
#13
Ethanol
Concen: 1.88 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 4:20

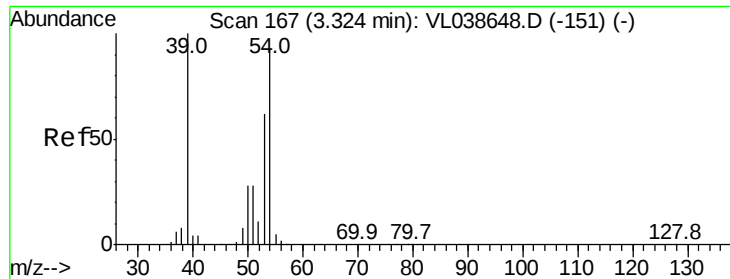
Tgt Ion: 45 Resp: 8099
Ion Ratio Lower Upper
45 100
46 72.4 15.1 60.5#



#15
Acetone
Concen: 1.93 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL038704.D
Acq: 23 Mar 2022 4:20

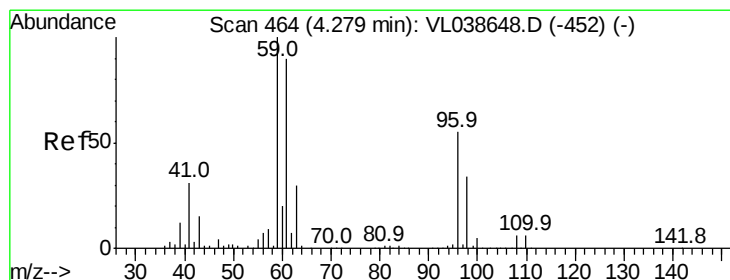
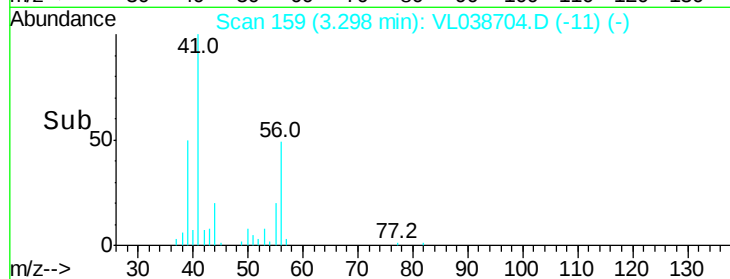
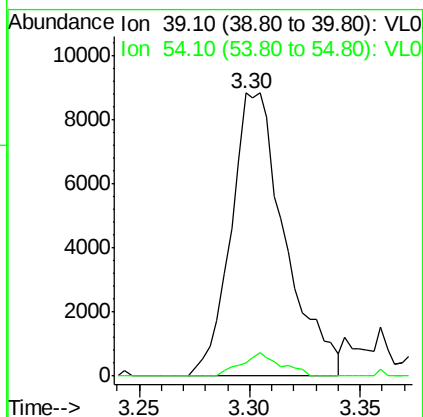
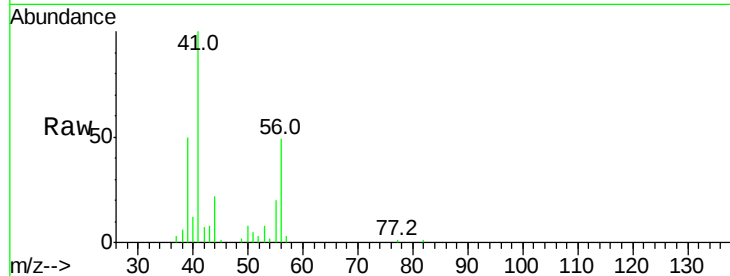
Tgt Ion: 43 Resp: 127333
Ion Ratio Lower Upper
43 100
58 37.0 23.3 34.9#





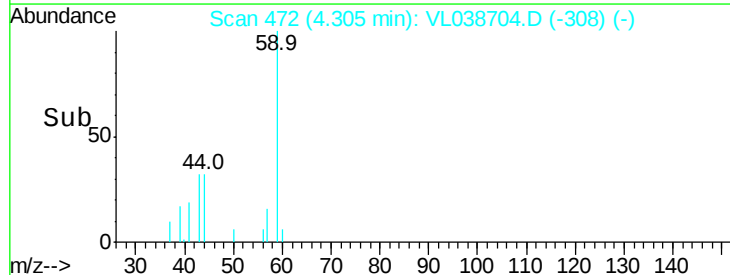
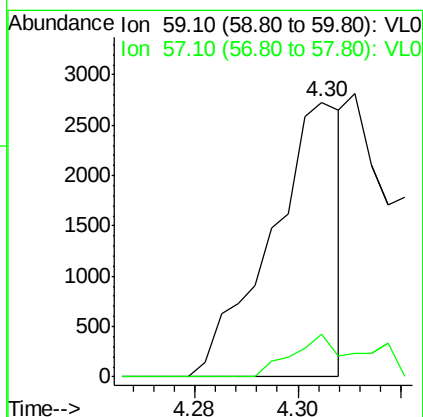
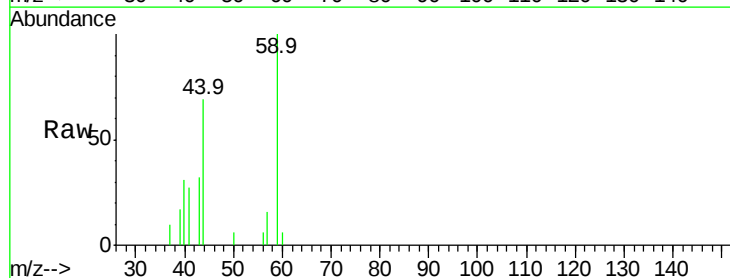
#16
 1,3-Butadiene
 Concen: 0.40 ppbv
 RT: 3.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 COP90DL
 Acq: 23 Mar 2022 4:20

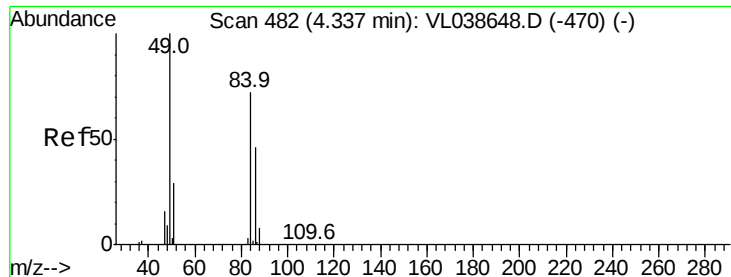
Tgt Ion: 39 Resp: 15006
 Ion Ratio Lower Upper
 39 100
 54 6.1 69.1 103.7#



#17
 tert-Butyl alcohol
 Concen: 0.05 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.03 min
 Lab File: VL038704.D
 Acq: 23 Mar 2022 4:20

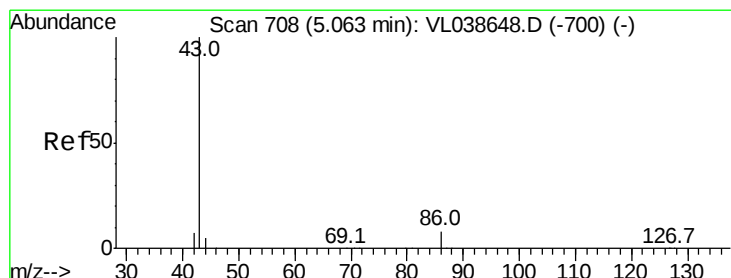
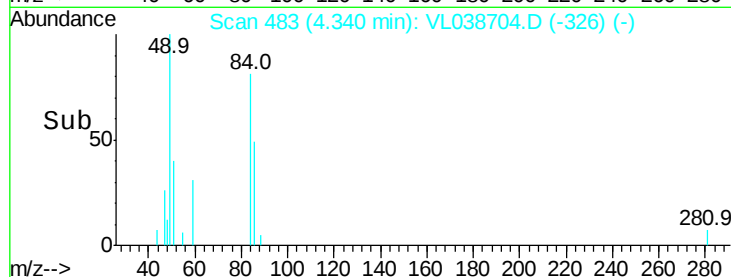
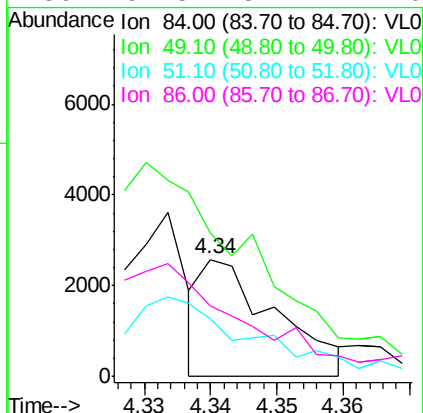
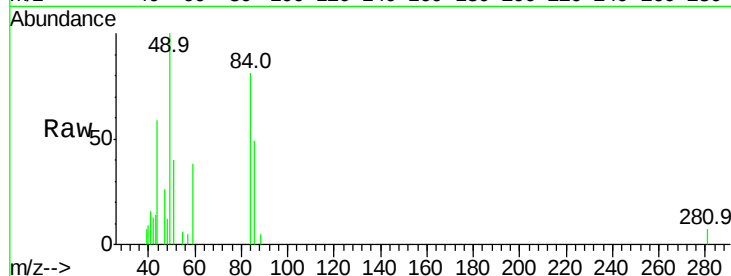
Tgt Ion: 59 Resp: 2599
 Ion Ratio Lower Upper
 59 100
 57 19.4 8.2 12.2#





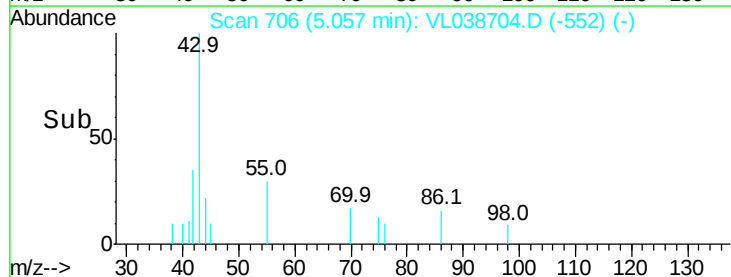
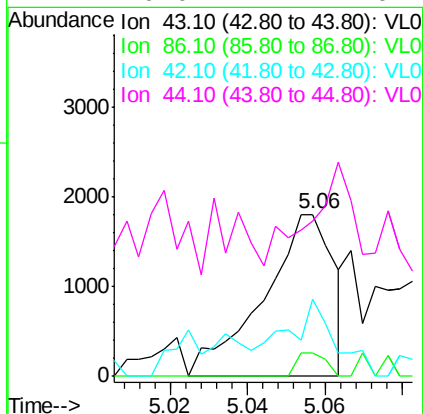
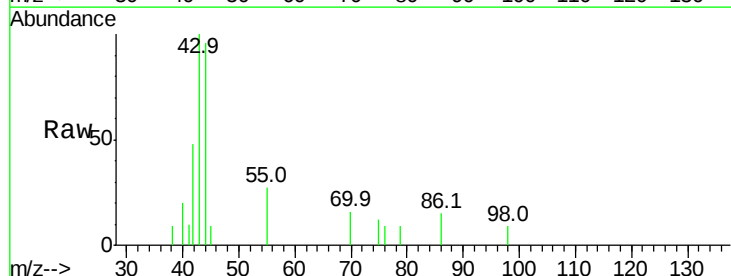
#20
Methylene Chloride
Concen: 0.07 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 4:20

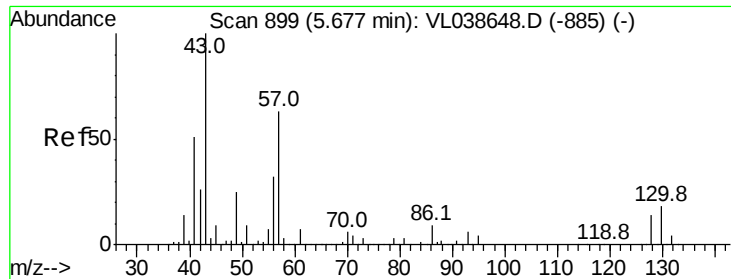
Tgt Ion:	84	Resp:	2006
Ion	Ratio	Lower	Upper
84	100		
49	119.9	111.2	166.8
51	43.5	32.8	49.2
86	57.5	51.4	77.0



#23
Vinyl Acetate
Concen: 0.04 ppbv
RT: 5.06 min Scan# 706
Delta R.T. -0.01 min
Lab File: VL038704.D
Acq: 23 Mar 2022 4:20

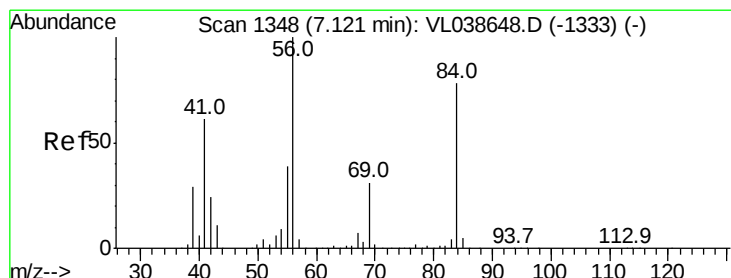
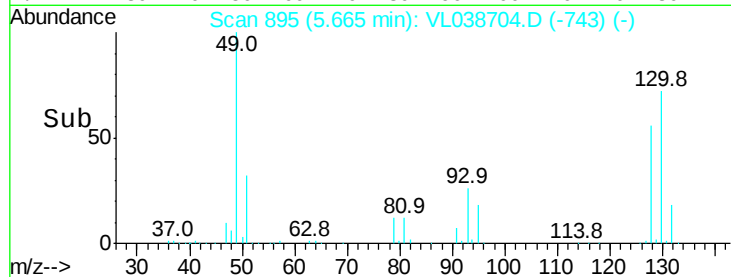
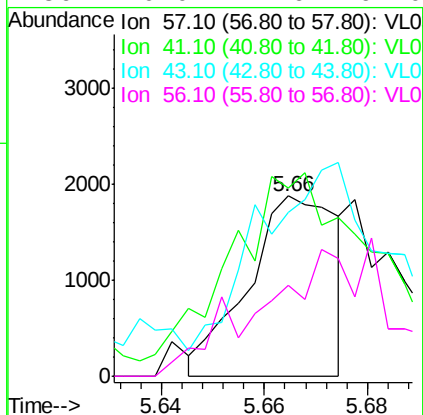
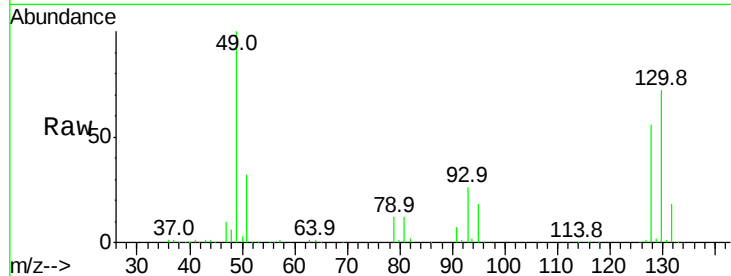
Tgt Ion:	43	Resp:	2265
Ion	Ratio	Lower	Upper
43	100		
86	14.5	5.6	8.4#
42	33.8	6.8	10.2#
44	0.0	4.2	6.2#





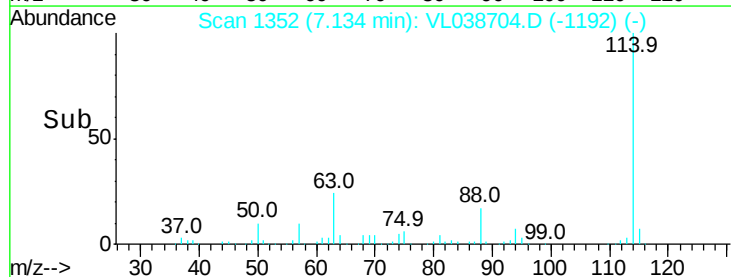
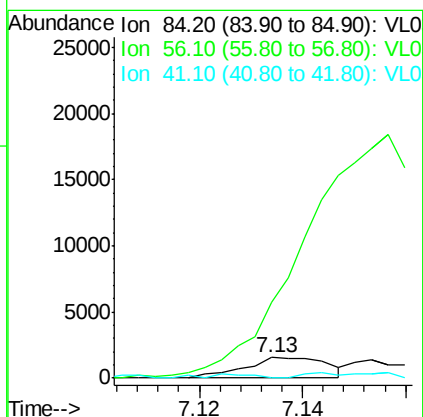
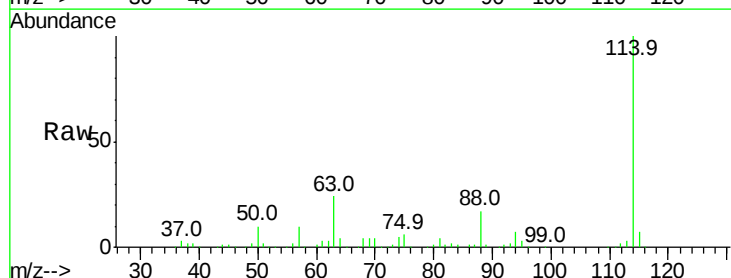
#26
Hexane
Concen: 0.03 ppbv
RT: 5.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 4:20
COP90DL

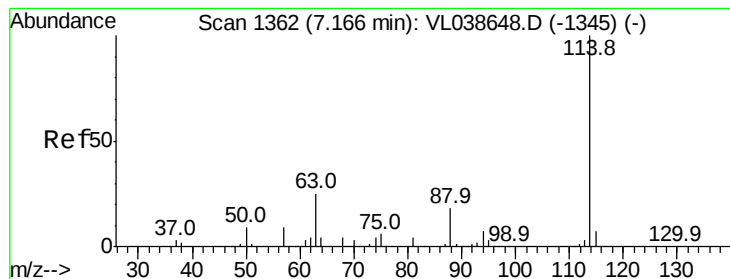
Tgt Ion	Ratio	Lower	Upper
57	100		
41	214.5	67.0	100.4#
43	0.0	184.2	276.2#
56	0.0	42.6	64.0#



#30
Cyclohexane
Concen: 0.03 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. 0.01 min
Lab File: VL038704.D
Acq: 23 Mar 2022 4:20

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.2	162.4#
41	16.4	61.8	92.6#





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 4:20

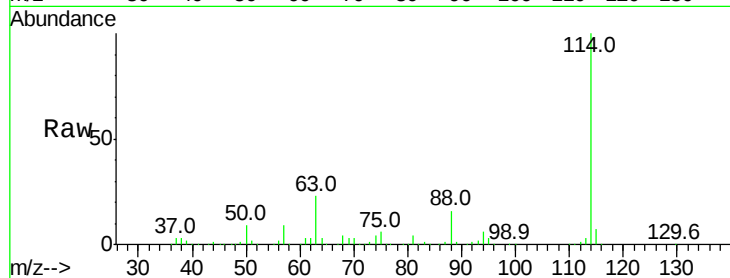
Tgt Ion:114 Resp: 2167175

Ion Ratio Lower Upper

114 100

63 22.4 19.4 29.0

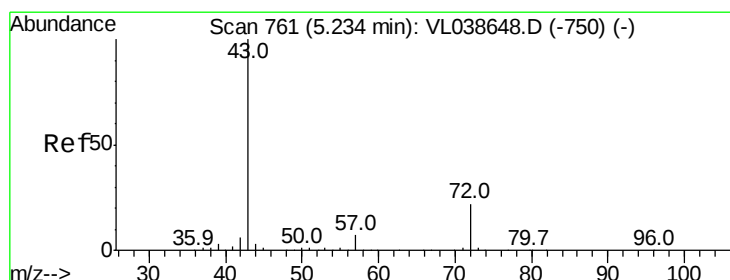
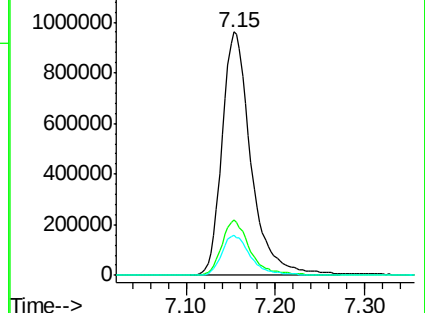
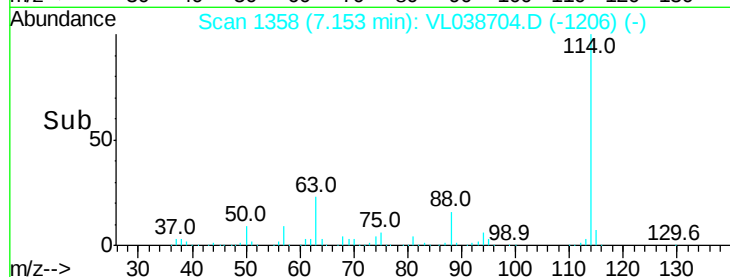
88 16.6 13.9 20.9



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: 1.65 ppbv

RT: 5.24 min Scan# 764

Delta R.T. 0.01 min

Lab File: VL038704.D

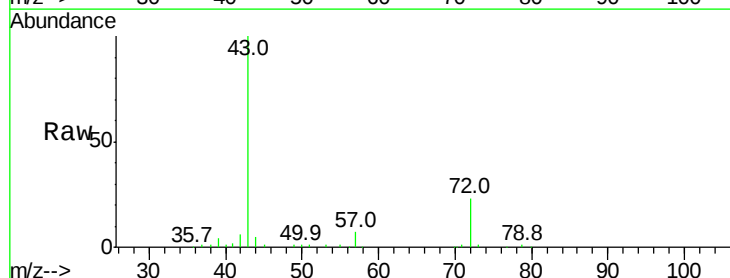
Acq: 23 Mar 2022 4:20

Tgt Ion: 43 Resp: 141760

Ion Ratio Lower Upper

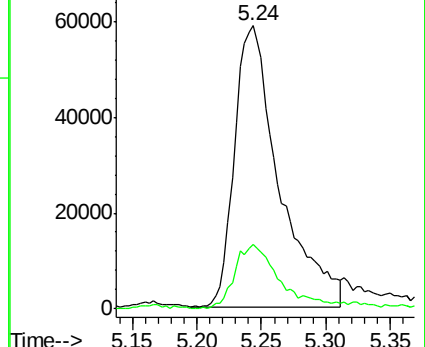
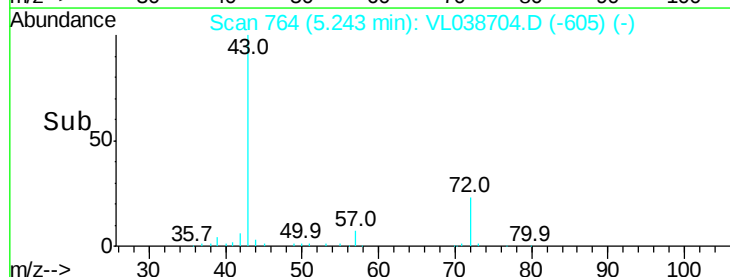
43 100

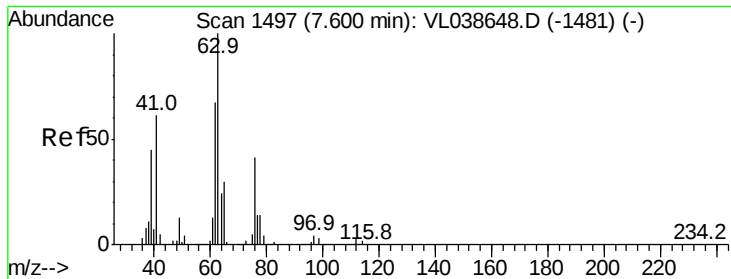
72 24.9 17.8 26.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 7.14 ppbv

RT: 7.15 Instrument: MSVOA_L

Delta R.T.:

Lab File: ClientSampleId:

Acq: 23 Mar 2022 4:20

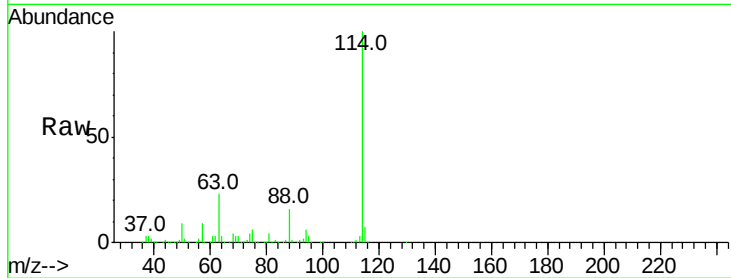
Tgt Ion: 63 Resp: 466877

Ion Ratio Lower Upper

63 100

41 0.2 49.0 73.6#

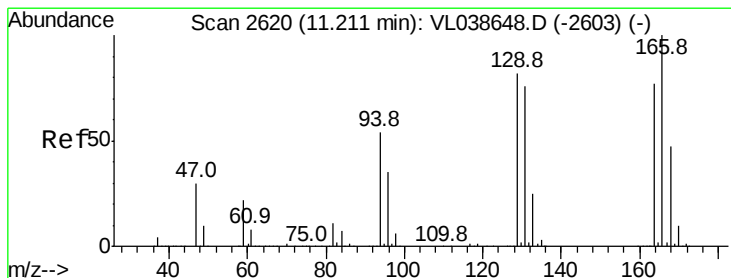
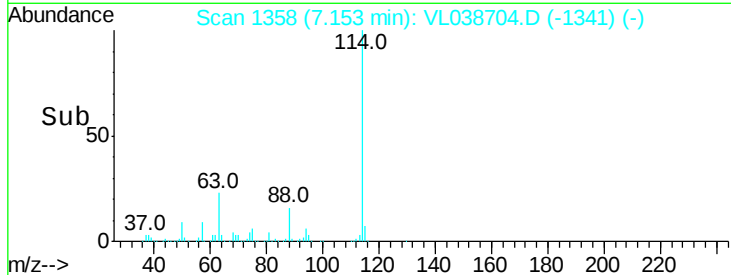
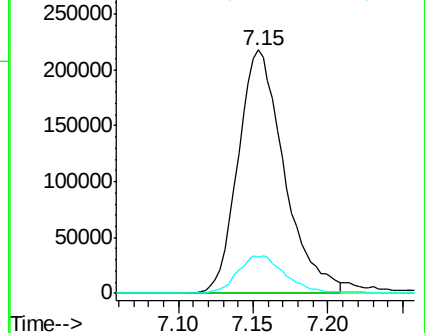
62 14.8 53.9 80.9#



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



#52

Tetrachloroethene

Concen: 1.41 ppbv

RT: 11.20 min Scan# 2617

Delta R.T. -0.01 min

Lab File: VL038704.D

Acq: 23 Mar 2022 4:20

Tgt Ion: 164 Resp: 86589

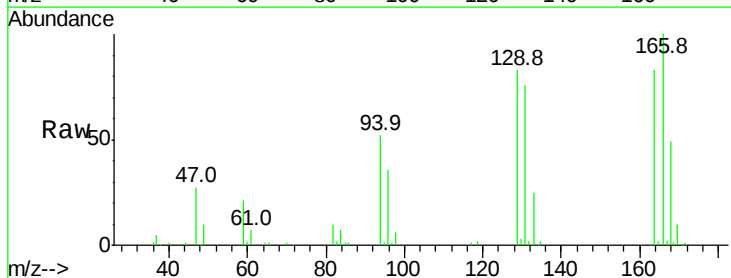
Ion Ratio Lower Upper

164 100

166 119.3 103.3 154.9

129 99.3 85.2 127.8

131 91.5 78.3 117.5

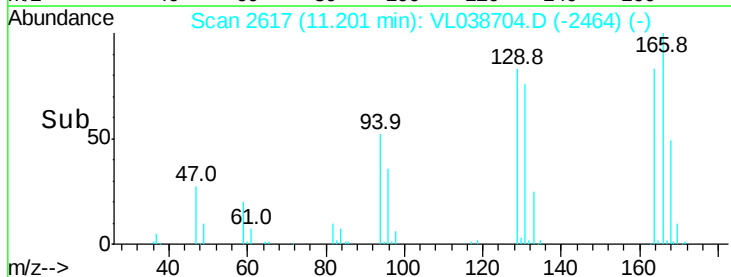
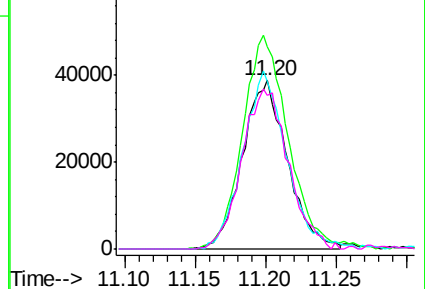


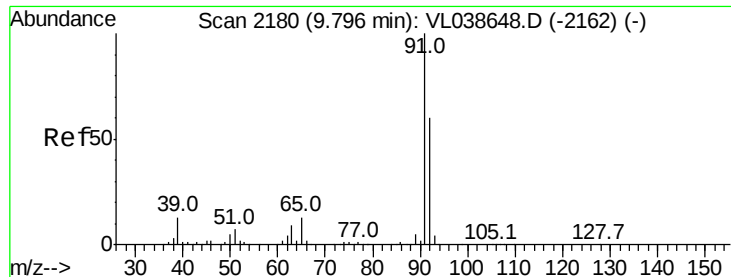
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.04 ppbv

RT: 9.78 Instrument: MSVOA_L

Delta R.T. -0.02 min

Lab File: ClientSampleId: COP90DL

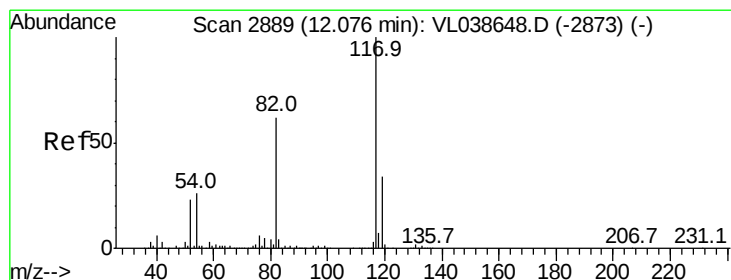
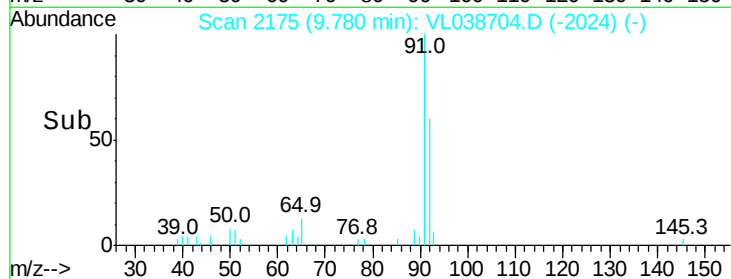
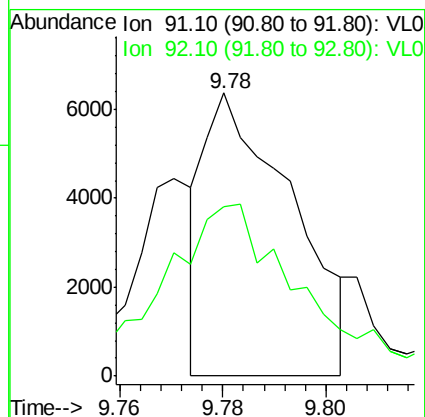
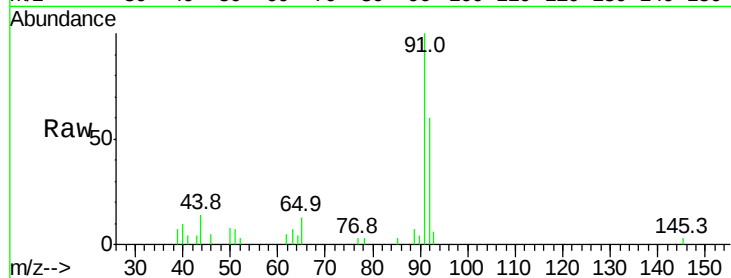
Acq: 23 Mar 2022 4:20

Tgt Ion: 91 Resp: 7505

Ion Ratio Lower Upper

91 100

92 100.0 48.7 73.1#



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL038704.D

Acq: 23 Mar 2022 4:20

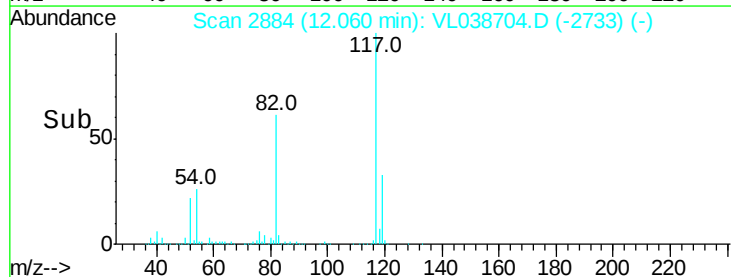
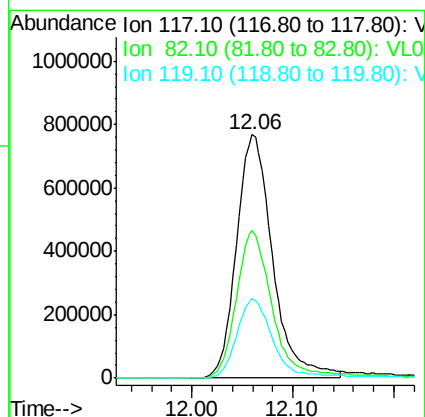
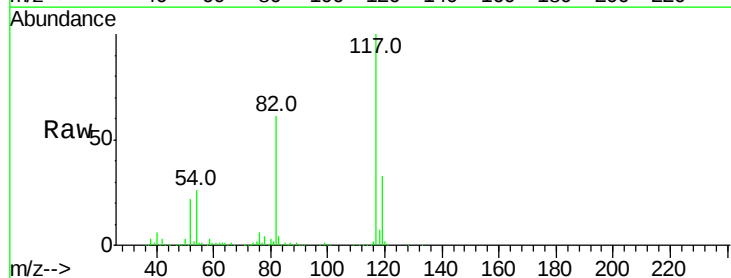
Tgt Ion: 117 Resp: 1912201

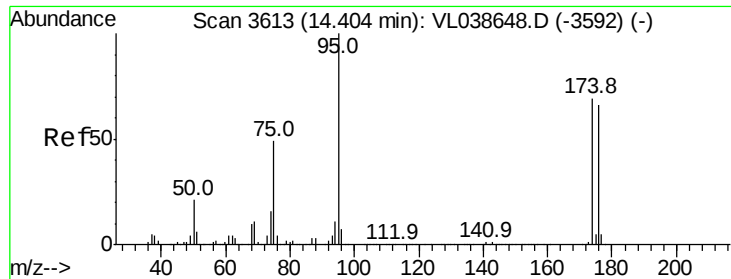
Ion Ratio Lower Upper

117 100

82 61.9 51.6 77.4

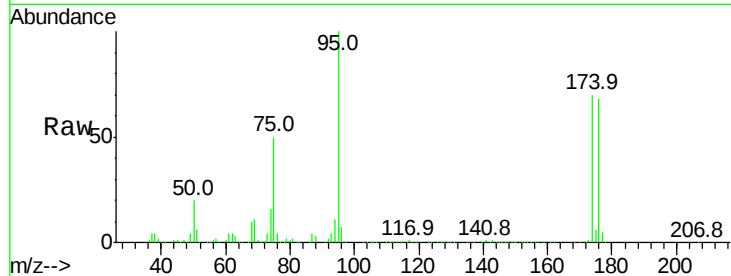
119 33.4 26.9 40.3



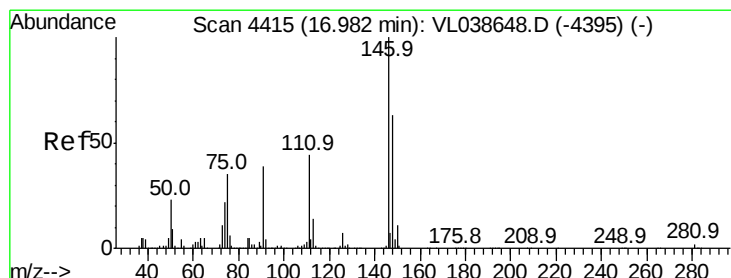
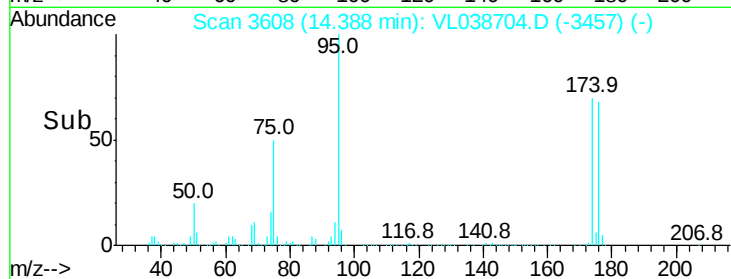
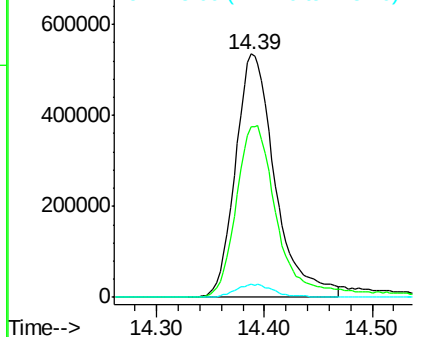


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.36 ppbv
 RT: 14.39
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 4:20

Tgt Ion: 95 Resp: 1372479
 Ion Ratio Lower Upper
 95 100
 174 76.4 56.1 84.1
 175 5.8 4.2 6.2

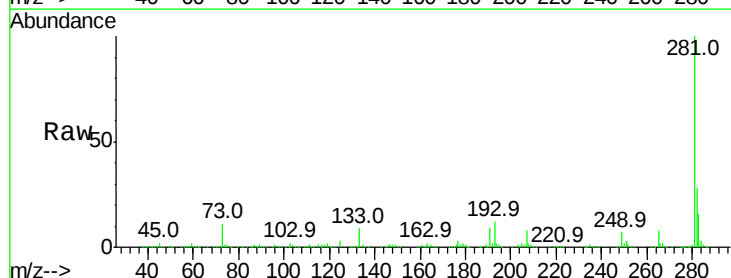


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



#75
 1,3-Dichlorobenzene
 Concen: 0.05 ppbv
 RT: 16.97 min Scan# 4411
 Delta R.T. -0.01 min
 Lab File: VL038704.D
 Acq: 23 Mar 2022 4:20

Tgt Ion: 146 Resp: 6322
 Ion Ratio Lower Upper
 146 100
 111 209.5 22.2 66.6#
 148 120.9 32.5 97.5#



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

