

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032222\
 Data File : VL038702.D
 Acq On : 23 Mar 2022 3:01
 Operator : SY/AP
 Sample : N2046-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P89DL

Quant Time: Mar 23 04:18:22 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	832206	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	2326137	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	2067692	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1453792	9.17	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.70%

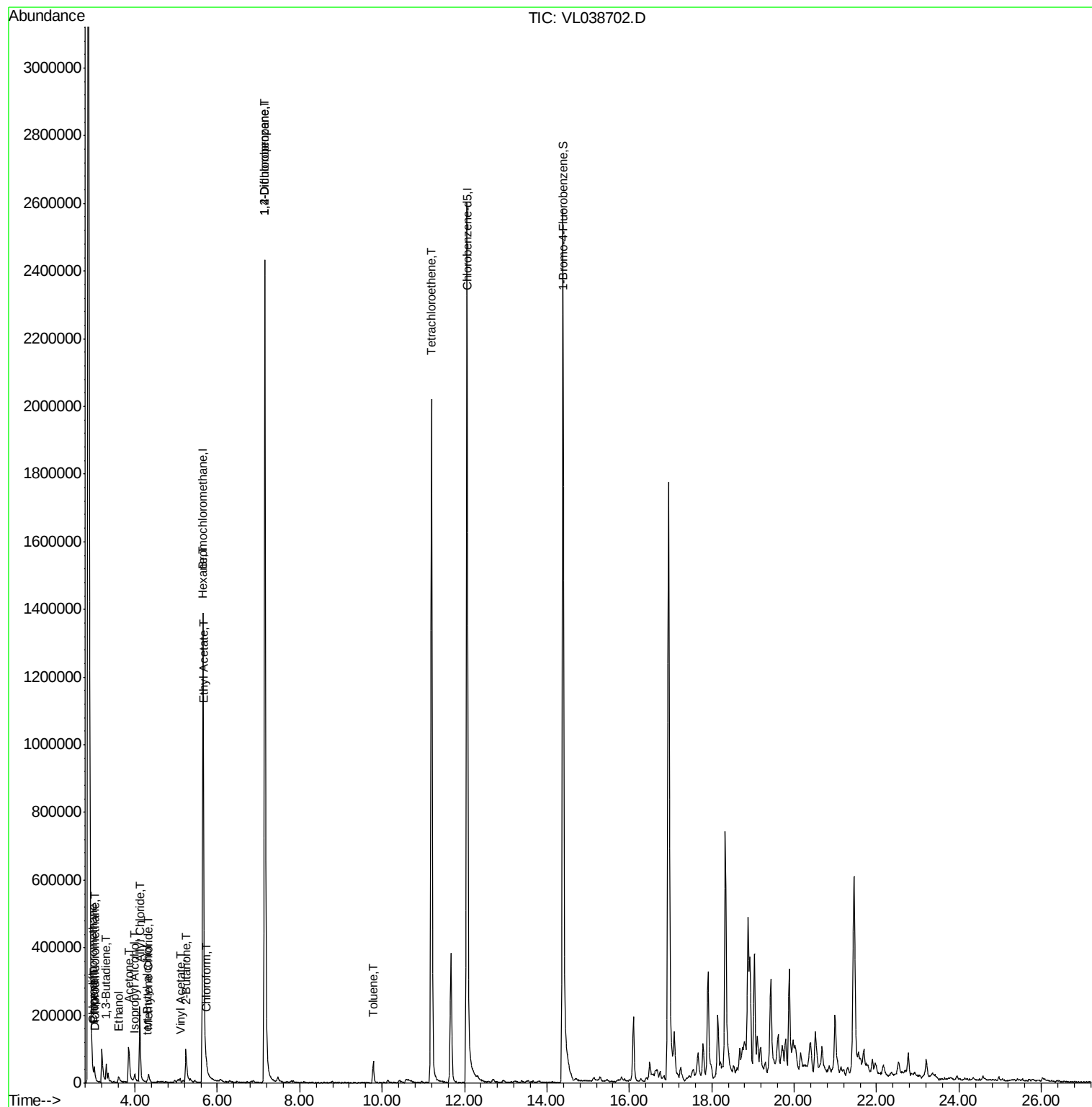
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	3234	0.03	ppbv	90
3) Chlorodifluoromethane	2.99	51	6209	0.07	ppbv #	91
9) Propene	3.00	41	5002	0.12	ppbv #	15
13) Ethanol	3.61	45	22873	4.89	ppbv	85
15) Acetone	3.85	43	125322	1.75	ppbv #	85
16) 1,3-Butadiene	3.30	39	14449	0.35	ppbv #	13
17) tert-Butyl alcohol	4.30	59	2819	0.04	ppbv #	64
19) Isopropyl Alcohol	3.97	45	5838	0.15	ppbv #	91
20) Methylene Chloride	4.33	84	8608	0.28	ppbv	92
21) Allyl Chloride	4.12	41	75710	1.46	ppbv #	53
23) Vinyl Acetate	5.09	43	3260	0.05	ppbv #	70
25) Ethyl Acetate	5.67	43	8512	0.05	ppbv #	88
26) Hexane	5.66	57	3914	0.05	ppbv #	1
29) Chloroform	5.74	83	10300	0.08	ppbv	92
34) 2-Butanone	5.24	43	152136	1.65	ppbv	92
39) 1,2-Dichloropropane	7.16	63	498458	7.10	ppbv #	28
52) Tetrachloroethene	11.20	164	619759	9.43	ppbv	99
53) Toluene	9.78	91	53403	0.28	ppbv	100

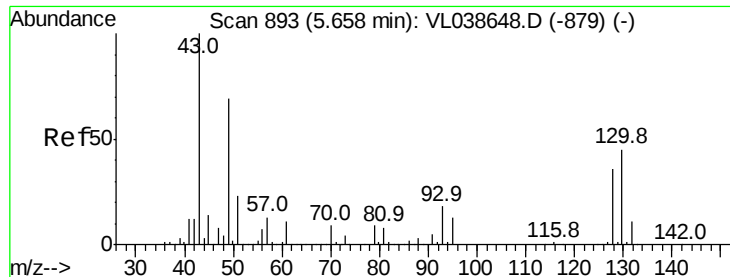
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032222\
Data File : VL038702.D
Acq On : 23 Mar 2022 3:01
Operator : SY/AP
Sample : N2046-01DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
C0P89DL

Quant Time: Mar 23 04:18:22 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





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 3:01

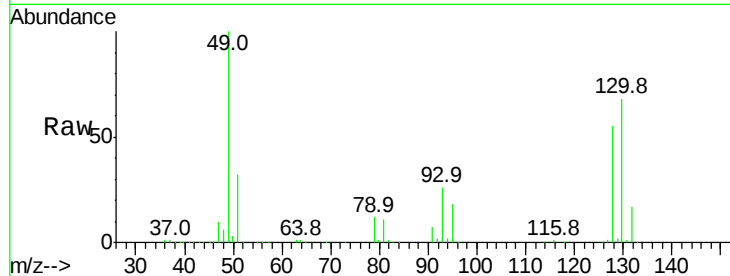
Tgt Ion: 49 Resp: 832206

Ion Ratio Lower Upper

49 100

128 55.8 26.2 78.6

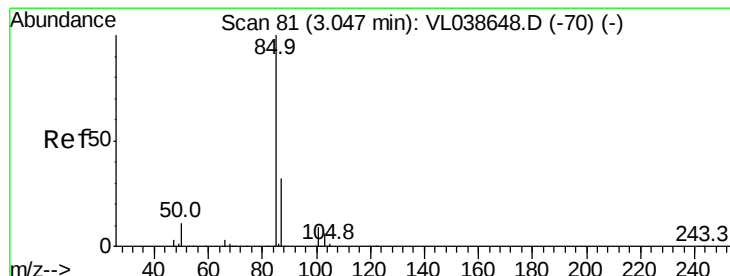
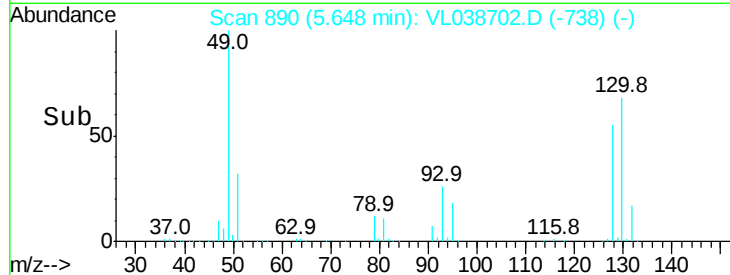
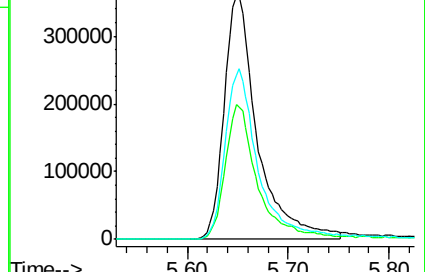
130 72.3 33.7 101.1



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



#2

Dichlorodifluoromethane

Concen: 0.03 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL038702.D

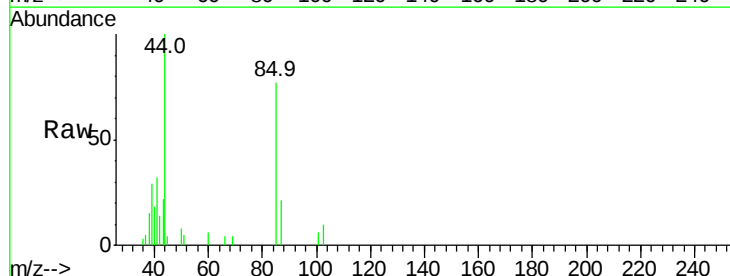
Acq: 23 Mar 2022 3:01

Tgt Ion: 85 Resp: 3234

Ion Ratio Lower Upper

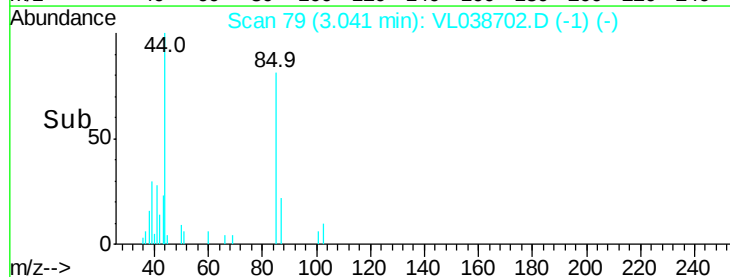
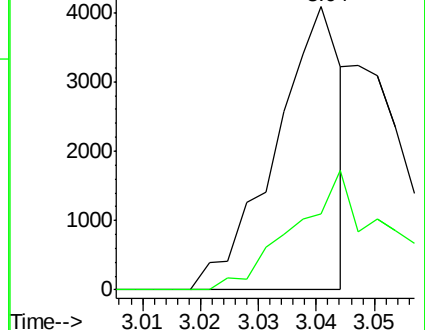
85 100

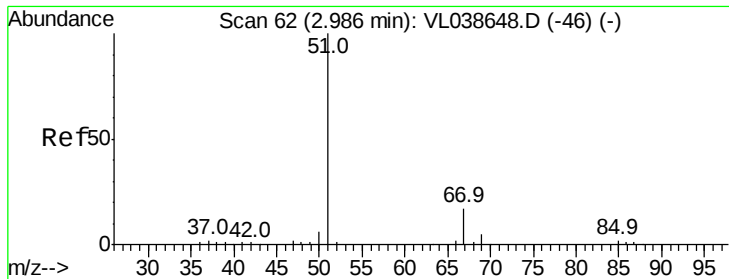
87 26.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

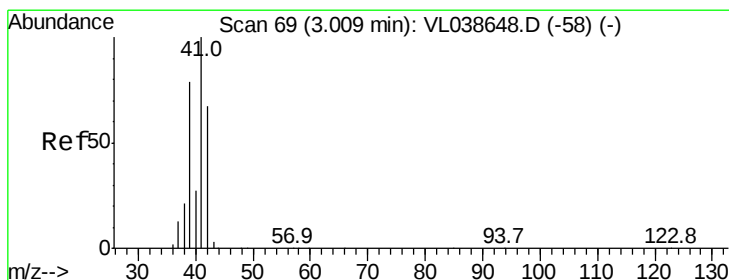
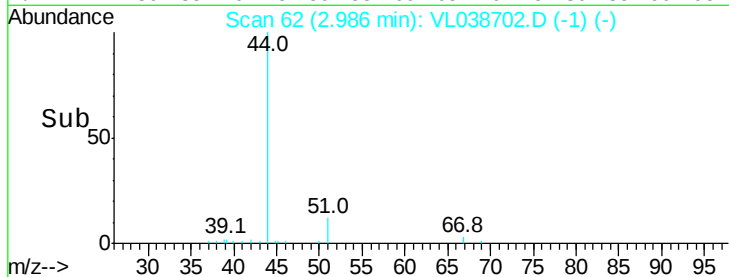
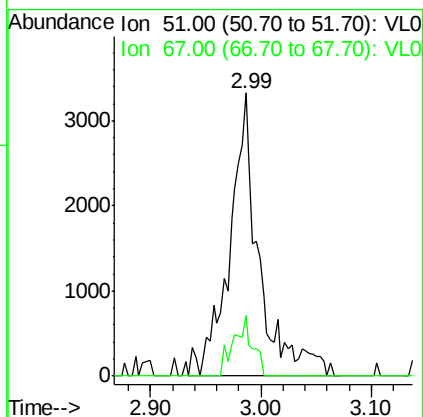
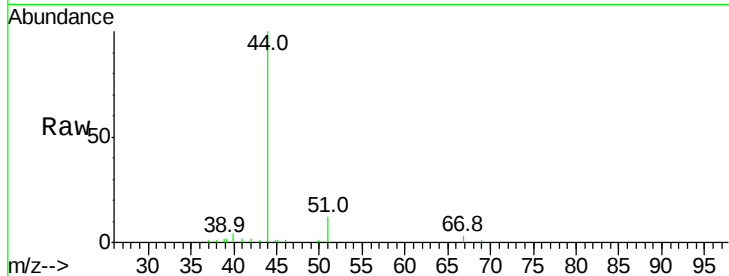
Ion 87.00 (86.70 to 87.70): VL0





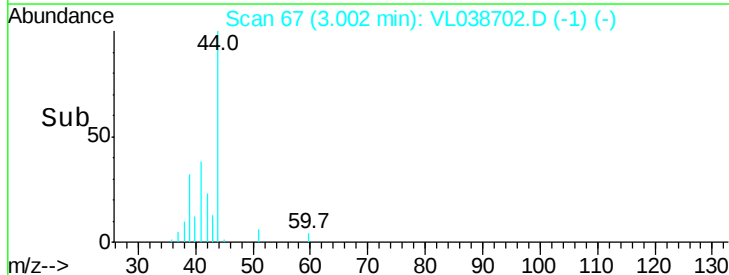
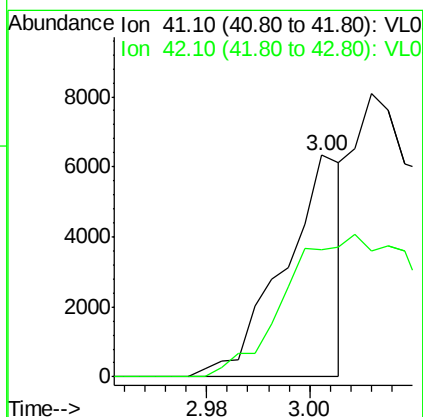
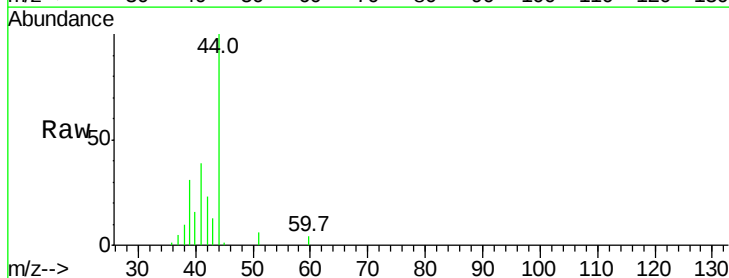
#3
 Chlorodifluoromethane
 Concen: 0.07 ppbv
 RT: 2.99
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 C0P89DL
 Acq: 23 Mar 2022 3:01

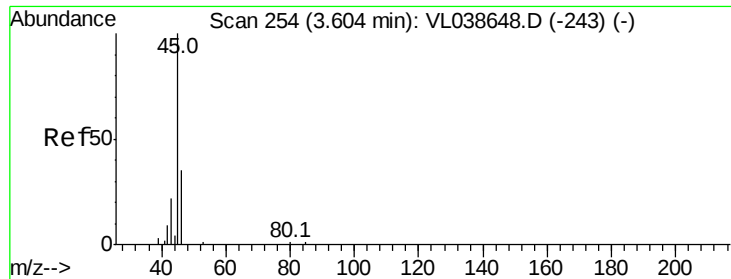
Tgt Ion: 51 Resp: 6209
 Ion Ratio Lower Upper
 51 100
 67 13.5 14.1 21.1#



#9
 Propene
 Concen: 0.12 ppbv
 RT: 3.00 min Scan# 67
 Delta R.T. -0.01 min
 Lab File: VL038702.D
 Acq: 23 Mar 2022 3:01

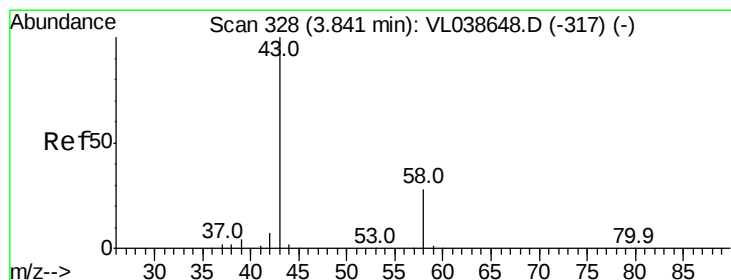
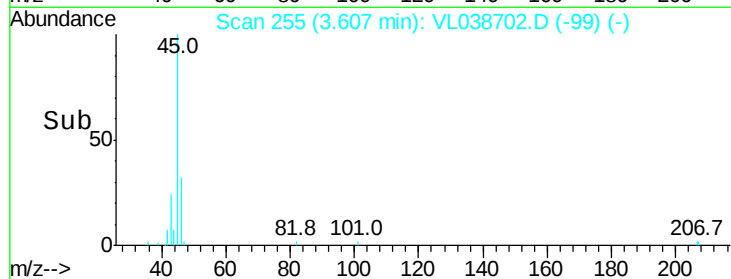
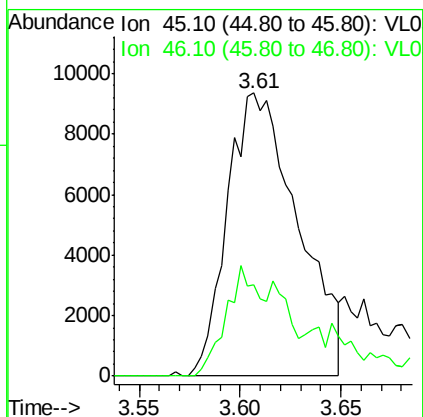
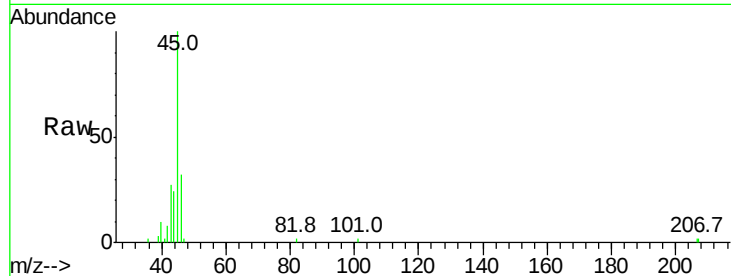
Tgt Ion: 41 Resp: 5002
 Ion Ratio Lower Upper
 41 100
 42 0.0 56.2 84.4#





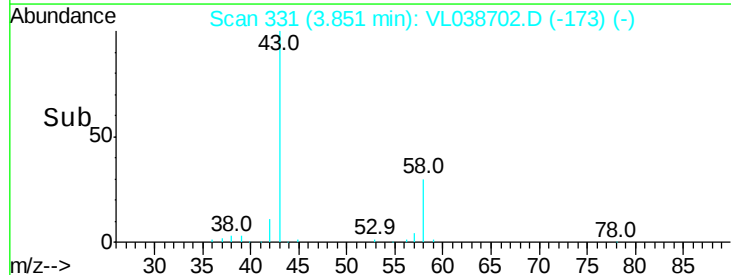
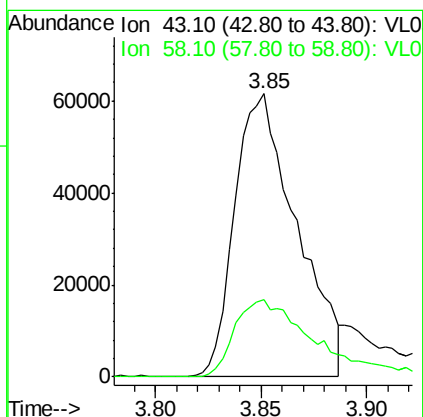
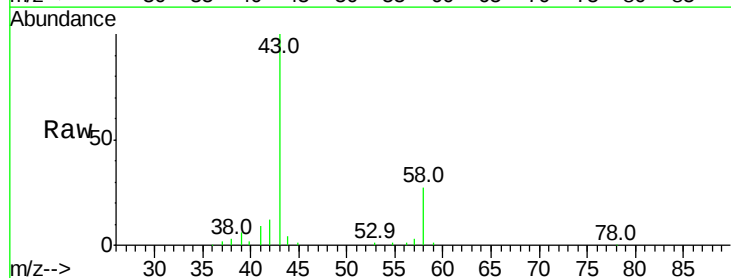
#13
Ethanol
Concen: 4.89 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 3:01

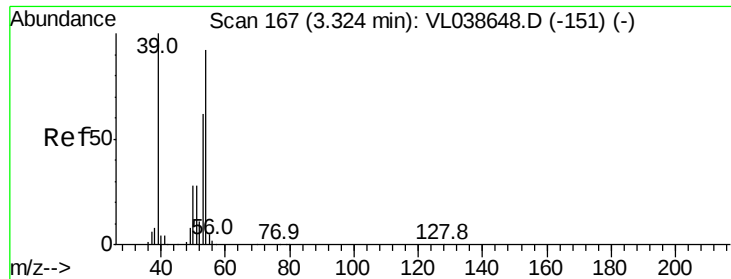
Tgt Ion: 45 Resp: 22873
Ion Ratio Lower Upper
45 100
46 46.9 15.1 60.5



#15
Acetone
Concen: 1.75 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL038702.D
Acq: 23 Mar 2022 3:01

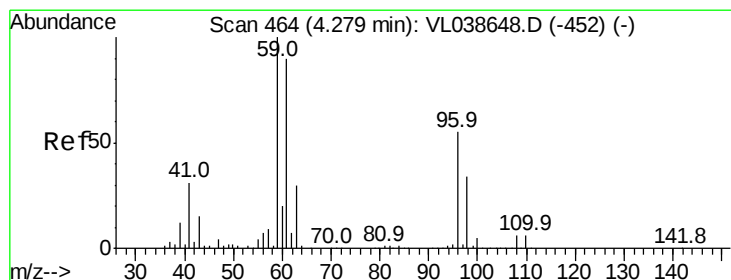
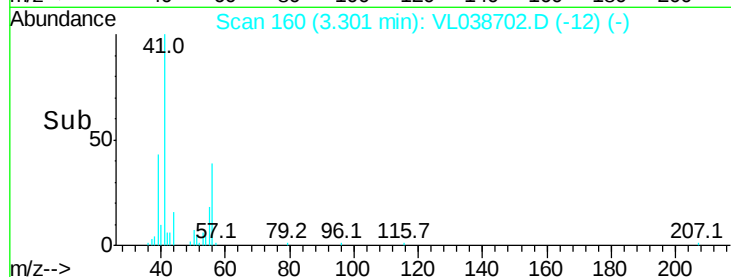
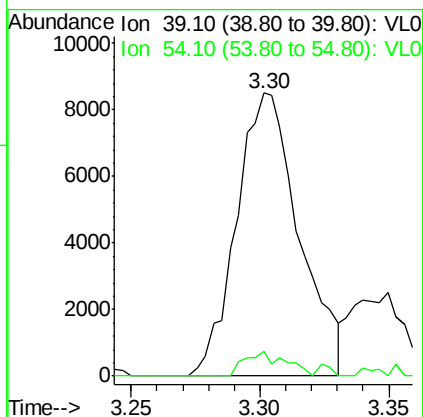
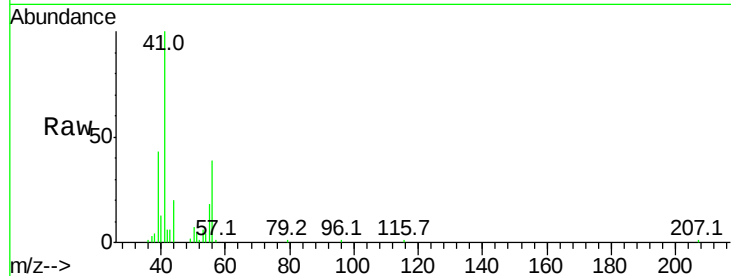
Tgt Ion: 43 Resp: 125322
Ion Ratio Lower Upper
43 100
58 37.2 23.3 34.9#





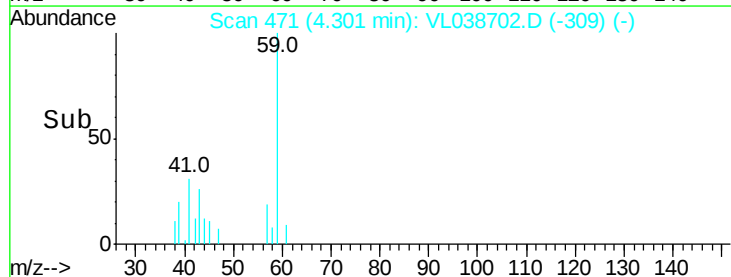
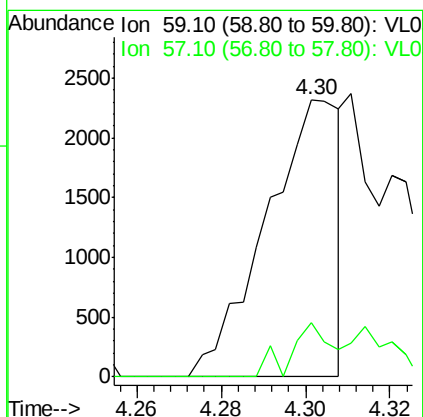
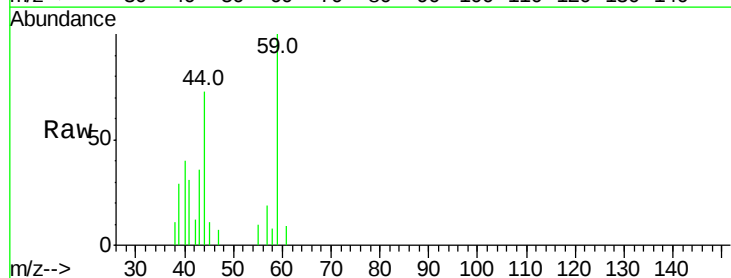
#16
 1,3-Butadiene
 Concen: 0.35 ppbv
 RT: 3.30
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 C0P89DL
 Acq: 23 Mar 2022 3:01

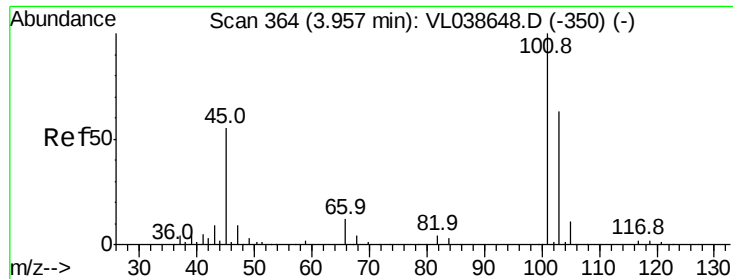
Tgt Ion: 39 Resp: 14449
 Ion Ratio Lower Upper
 39 100
 54 6.5 69.1 103.7#



#17
 tert-Butyl alcohol
 Concen: 0.04 ppbv
 RT: 4.30 min Scan# 471
 Delta R.T. 0.02 min
 Lab File: VL038702.D
 Acq: 23 Mar 2022 3:01

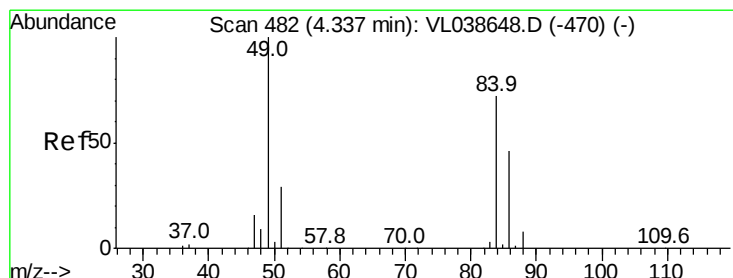
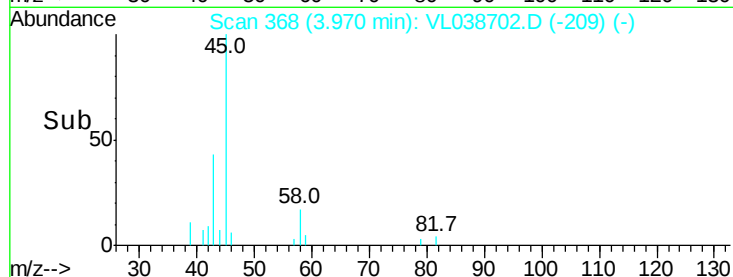
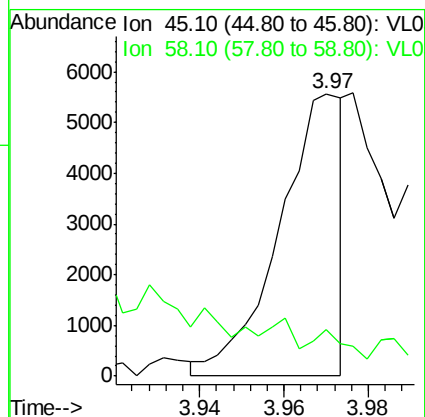
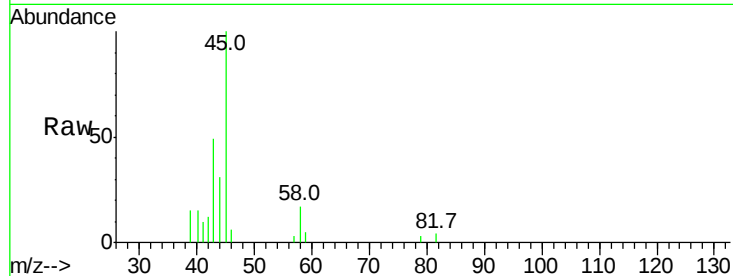
Tgt Ion: 59 Resp: 2819
 Ion Ratio Lower Upper
 59 100
 57 23.7 8.2 12.2#





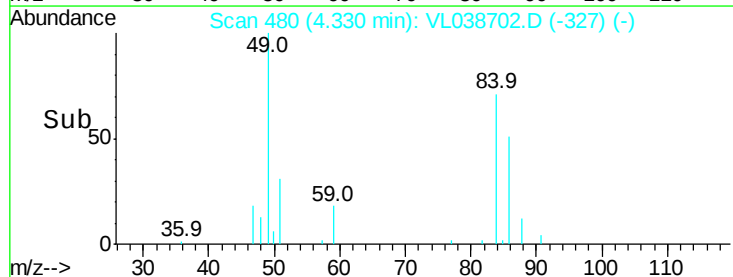
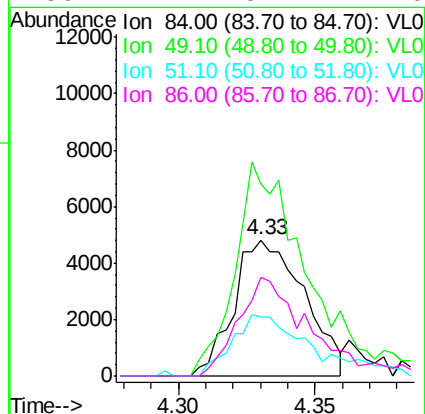
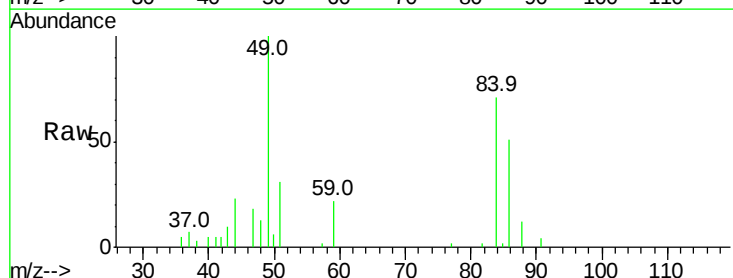
#19
Isopropyl Alcohol
Concen: 0.15 ppbv
RT: 3.97 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 3:01

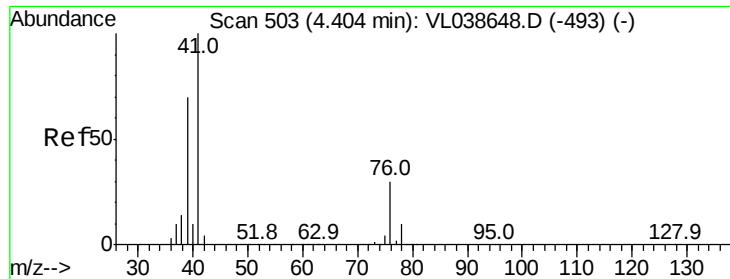
Tgt Ion: 45 Resp: 5838
Ion Ratio Lower Upper
45 100
58 0.0 2.3 3.5#



#20
Methylene Chloride
Concen: 0.28 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.01 min
Lab File: VL038702.D
Acq: 23 Mar 2022 3:01

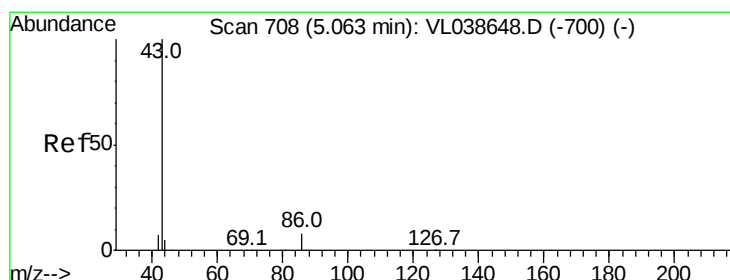
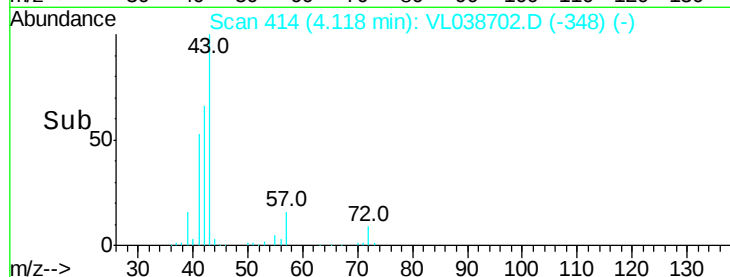
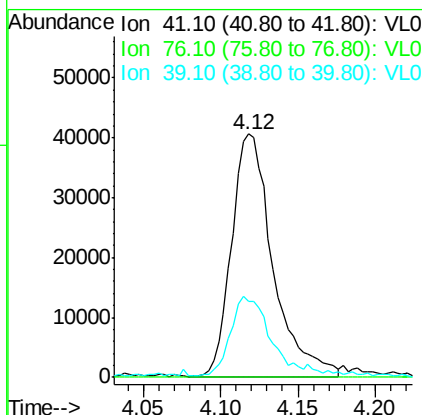
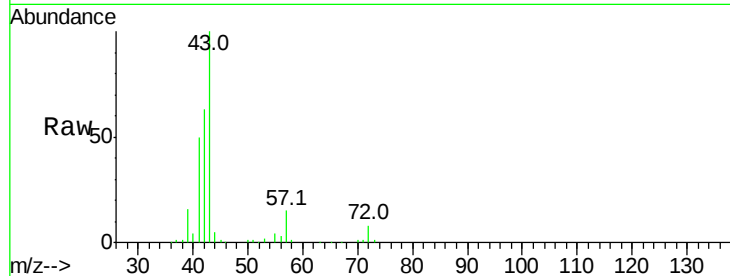
Tgt Ion: 84 Resp: 8608
Ion Ratio Lower Upper
84 100
49 149.7 111.2 166.8
51 43.3 32.8 49.2
86 72.2 51.4 77.0





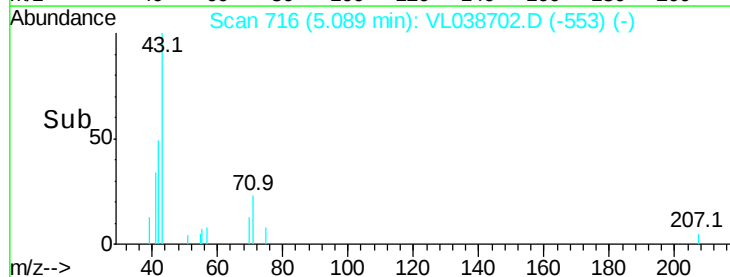
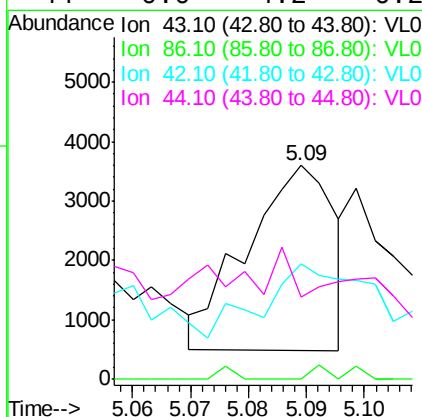
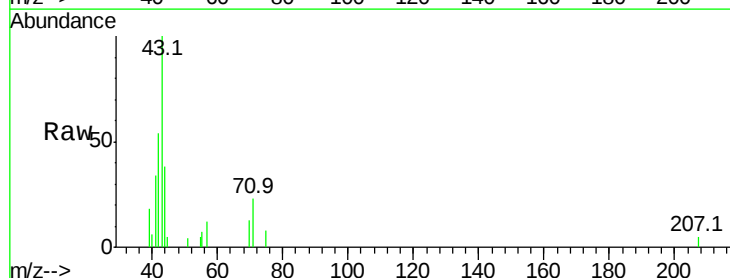
#21
 Allyl Chloride
 Concen: 1.46 ppbv
 RT: 4.12
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 C0P89DL
 Acq: 23 Mar 2022 3:01

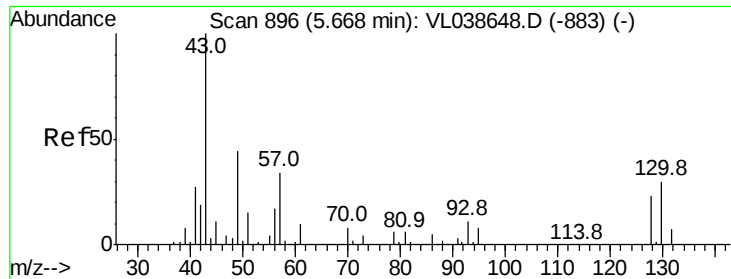
Tgt Ion: 41 Resp: 75710
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.0 37.6#
 39 35.7 56.6 85.0#



#23
 Vinyl Acetate
 Concen: 0.05 ppbv
 RT: 5.09 min Scan# 716
 Delta R.T. 0.03 min
 Lab File: VL038702.D
 Acq: 23 Mar 2022 3:01

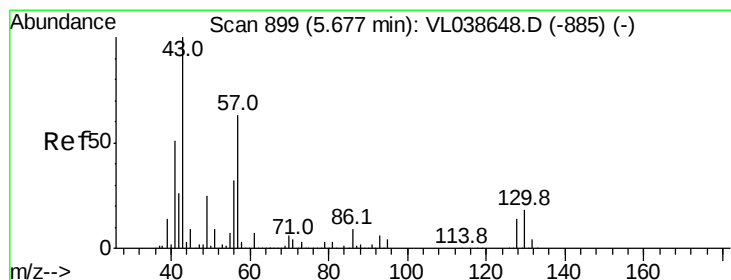
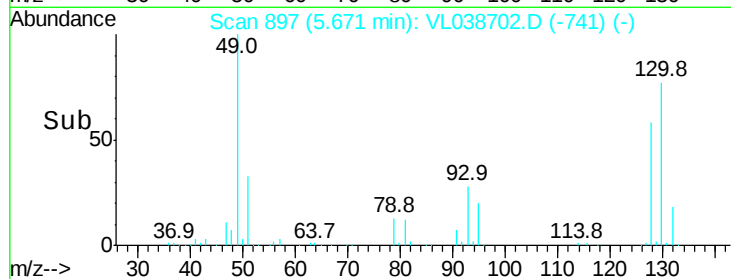
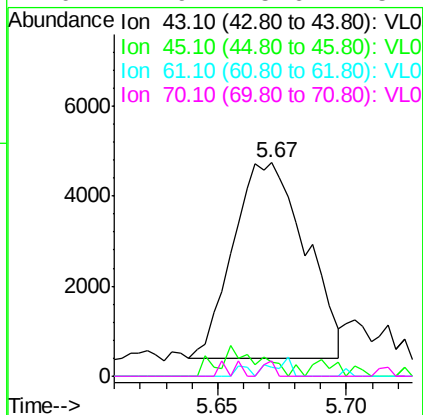
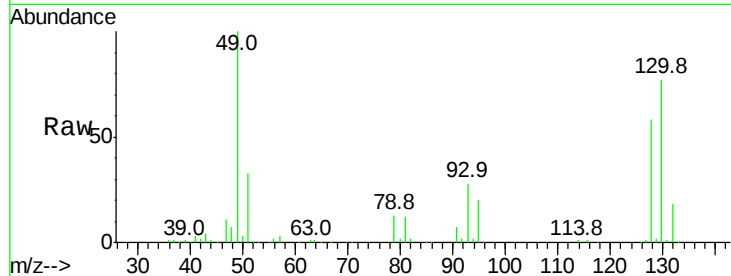
Tgt Ion: 43 Resp: 3260
 Ion Ratio Lower Upper
 43 100
 86 0.0 5.6 8.4#
 42 25.2 6.8 10.2#
 44 0.0 4.2 6.2#





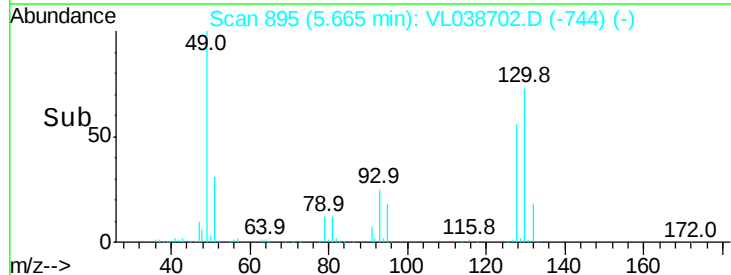
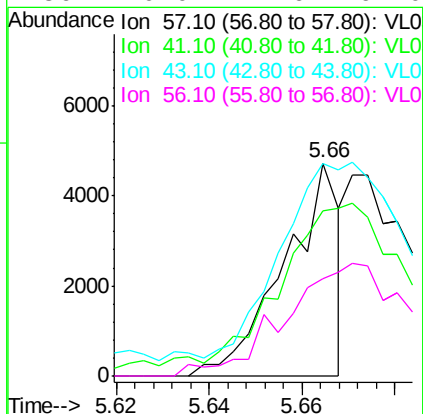
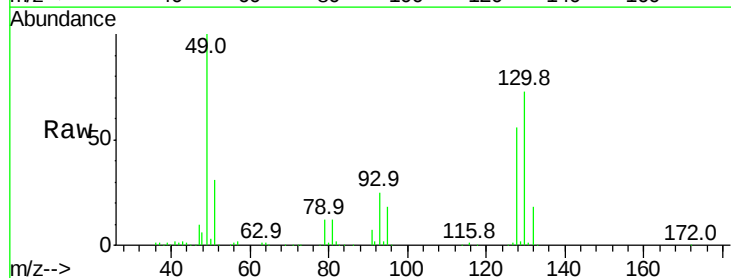
#25
Ethyl Acetate
Concen: 0.05 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 3:01

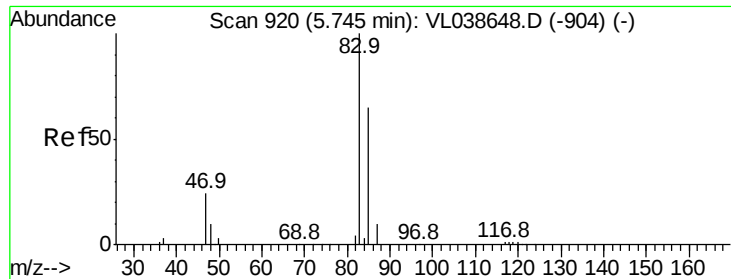
Tgt Ion: 43 Resp: 8512
Ion Ratio Lower Upper
43 100
45 12.3 8.2 12.4
61 3.4 8.3 12.5#
70 2.9 5.6 8.4#



#26
Hexane
Concen: 0.05 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL038702.D
Acq: 23 Mar 2022 3:01

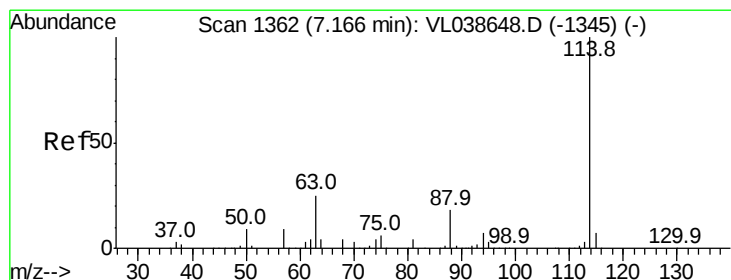
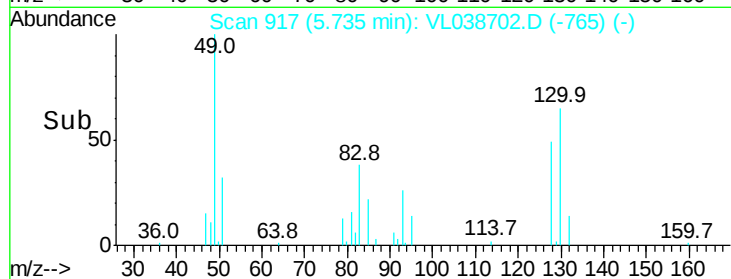
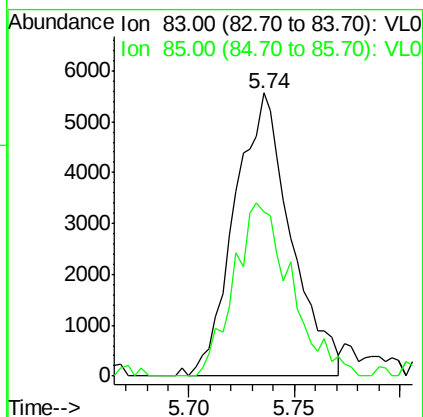
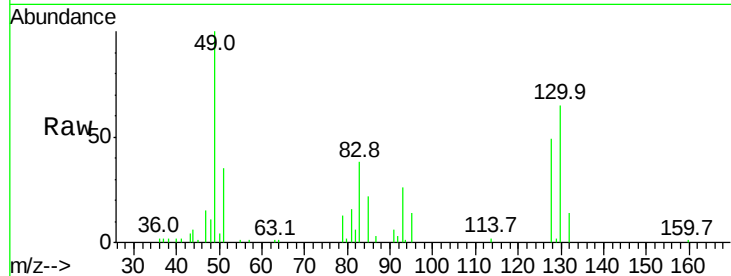
Tgt Ion: 57 Resp: 3914
Ion Ratio Lower Upper
57 100
41 0.0 67.0 100.4#
43 0.0 184.2 276.2#
56 0.0 42.6 64.0#





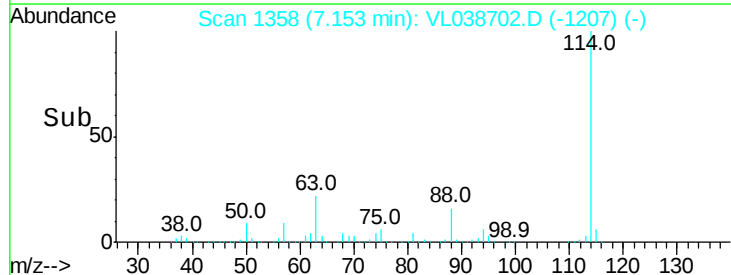
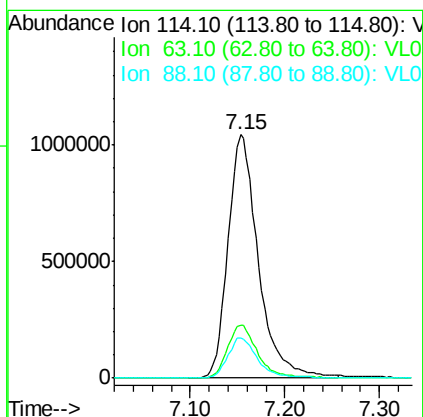
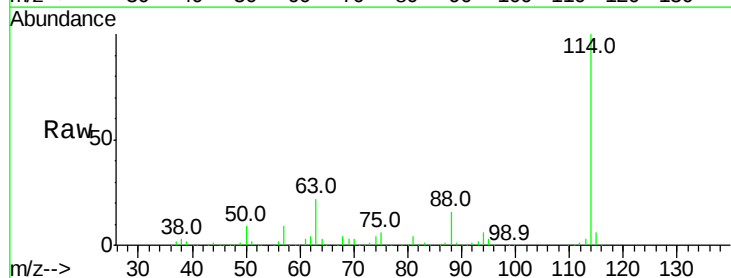
#29
Chloroform
Concen: 0.08 ppbv
RT: 5.74
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 3:01

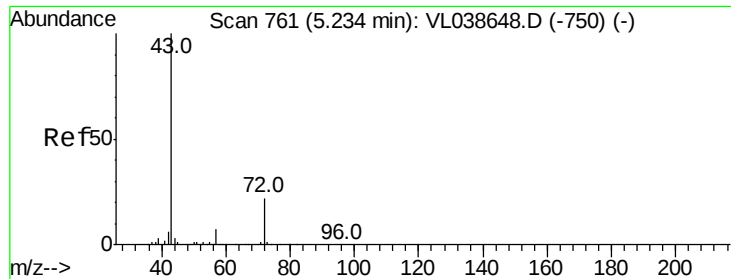
Tgt Ion: 83 Resp: 10300
Ion Ratio Lower Upper
83 100
85 58.2 51.7 77.5



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL038702.D
Acq: 23 Mar 2022 3:01

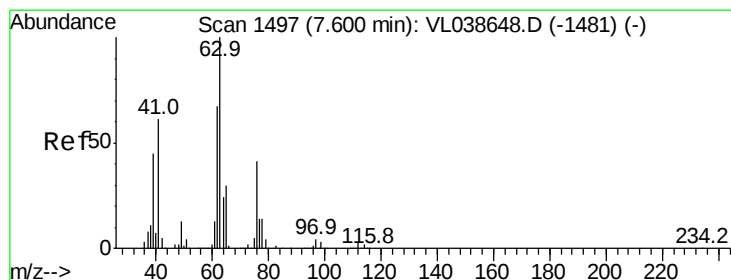
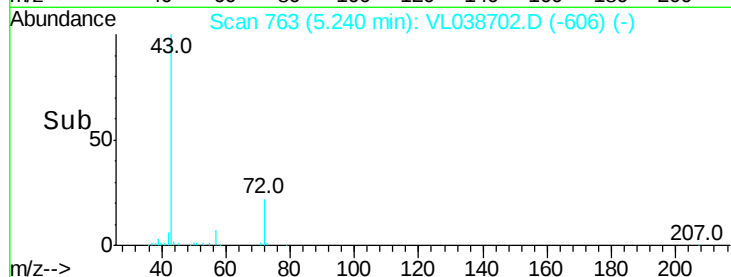
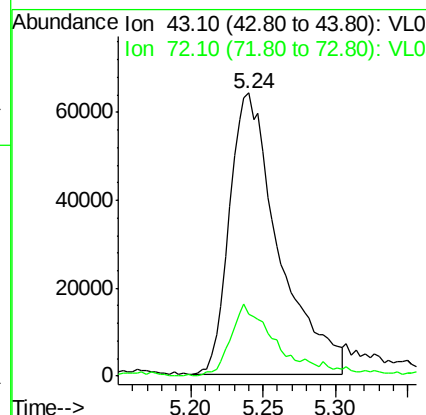
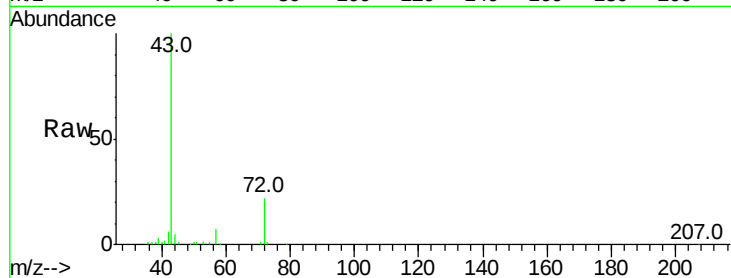
Tgt Ion: 114 Resp: 2326137
Ion Ratio Lower Upper
114 100
63 22.1 19.4 29.0
88 16.5 13.9 20.9





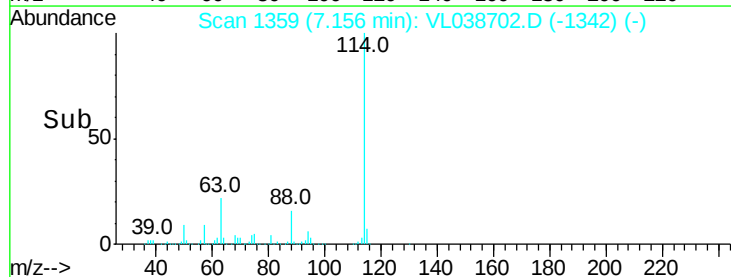
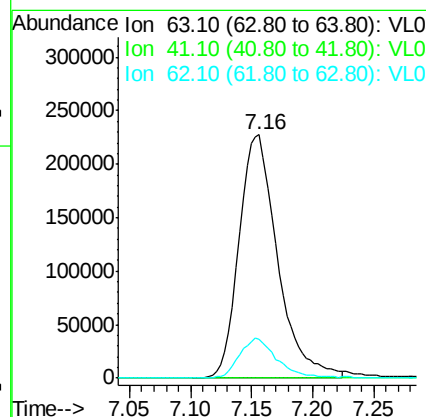
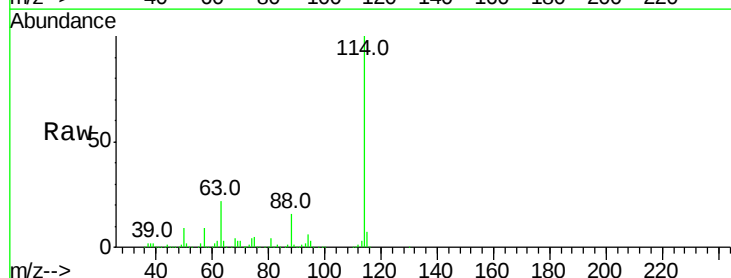
#34
 2-Butanone
 Concen: 1.65 ppbv
 RT: 5.24
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 3:01

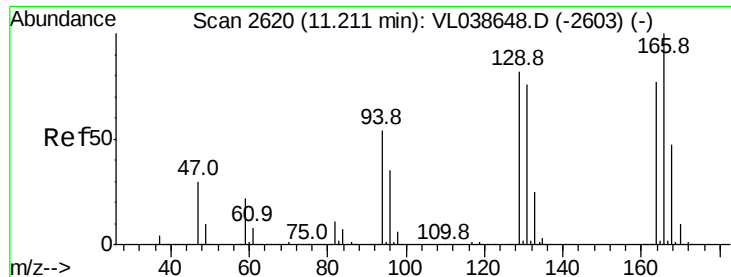
Tgt Ion: 43 Resp: 152136
 Ion Ratio Lower Upper
 43 100
 72 26.0 17.8 26.8



#39
 1,2-Dichloropropane
 Concen: 7.10 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.44 min
 Lab File: VL038702.D
 Acq: 23 Mar 2022 3:01

Tgt Ion: 63 Resp: 498458
 Ion Ratio Lower Upper
 63 100
 41 0.0 49.0 73.6#
 62 15.8 53.9 80.9#





#52

Tetrachloroethene

Concen: 9.43 ppbv

RT: 11.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 3:01

Tgt Ion: 164 Resp: 619759

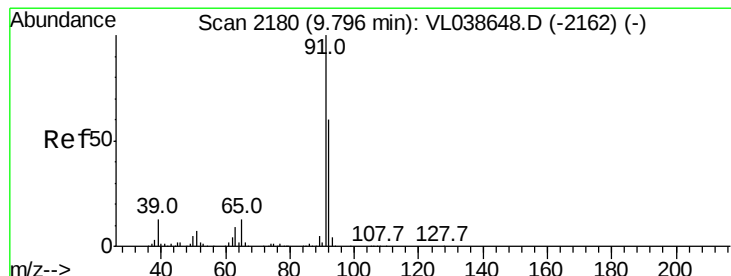
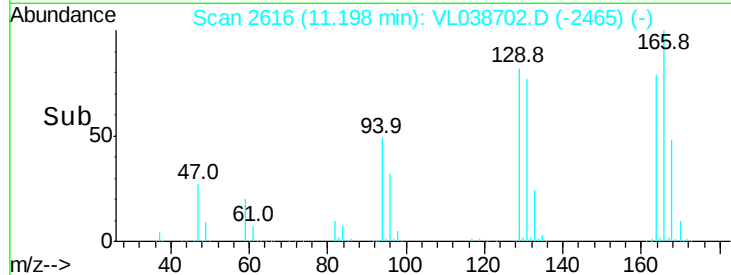
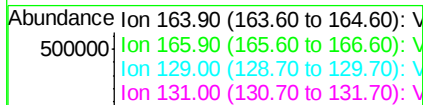
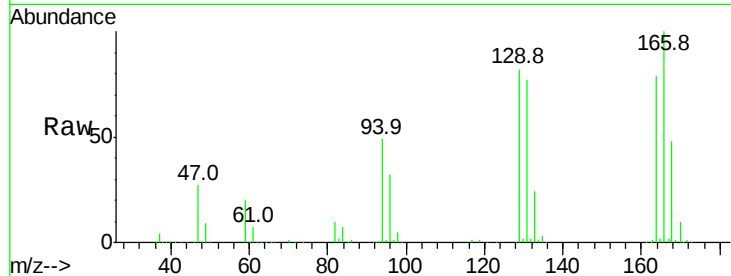
Ion Ratio Lower Upper

164 100

166 127.1 103.3 154.9

129 104.3 85.2 127.8

131 97.9 78.3 117.5



#53

Toluene

Concen: 0.28 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.01 min

Lab File: VL038702.D

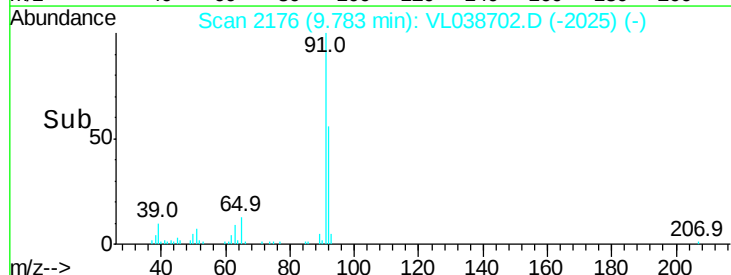
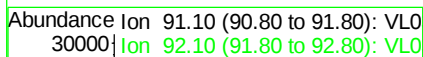
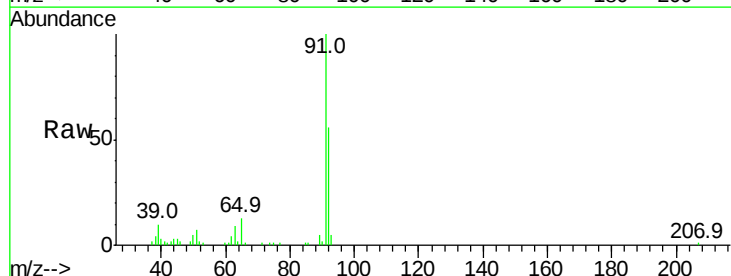
Acq: 23 Mar 2022 3:01

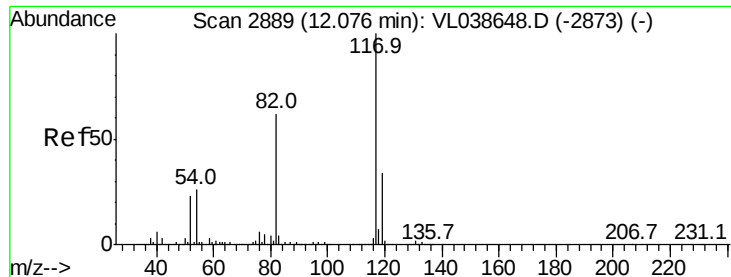
Tgt Ion: 91 Resp: 53403

Ion Ratio Lower Upper

91 100

92 60.6 48.7 73.1

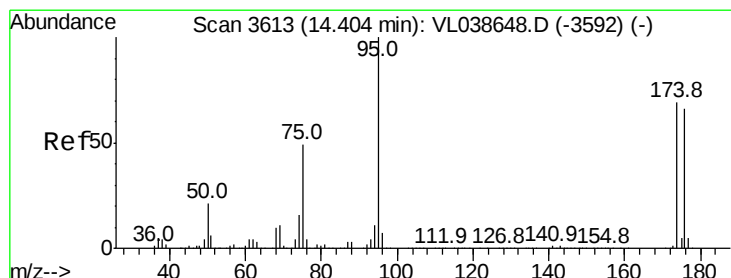
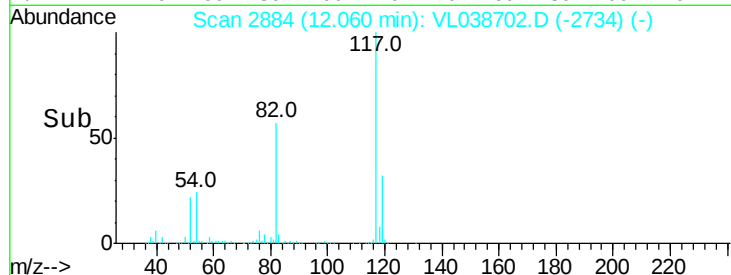
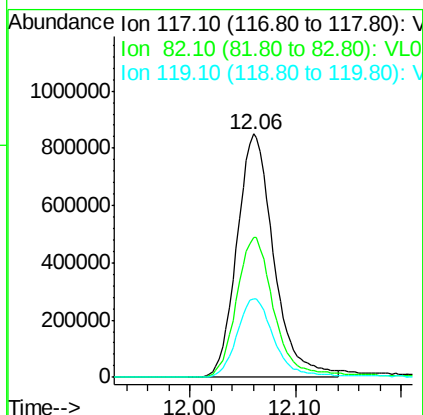
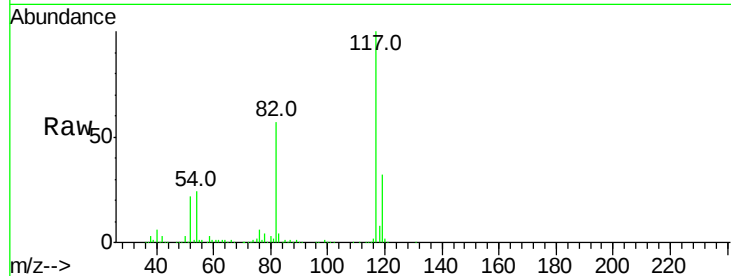




#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.06 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 COP89DL
 Acq: 23 Mar 2022 3:01

Tgt Ion: 117 Resp: 2067692

Ion	Ratio	Lower	Upper
117	100		
82	60.5	51.6	77.4
119	33.8	26.9	40.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.17 ppbv
 RT: 14.39 min Scan# 3609
 Delta R.T.: -0.01 min
 Lab File: VL038702.D
 Acq: 23 Mar 2022 3:01

Tgt Ion: 95 Resp: 1453792

Ion	Ratio	Lower	Upper
95	100		
174	78.7	56.1	84.1
175	5.9	4.2	6.2

