

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
 Data File : VL038738.D
 Acq On : 24 Mar 2022 5:48
 Operator : SY/AP
 Sample : N2051-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P92

Quant Time: Mar 24 08:11:01 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	5.67	49	737051	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2002445	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1799243	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1315577	9.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.40%

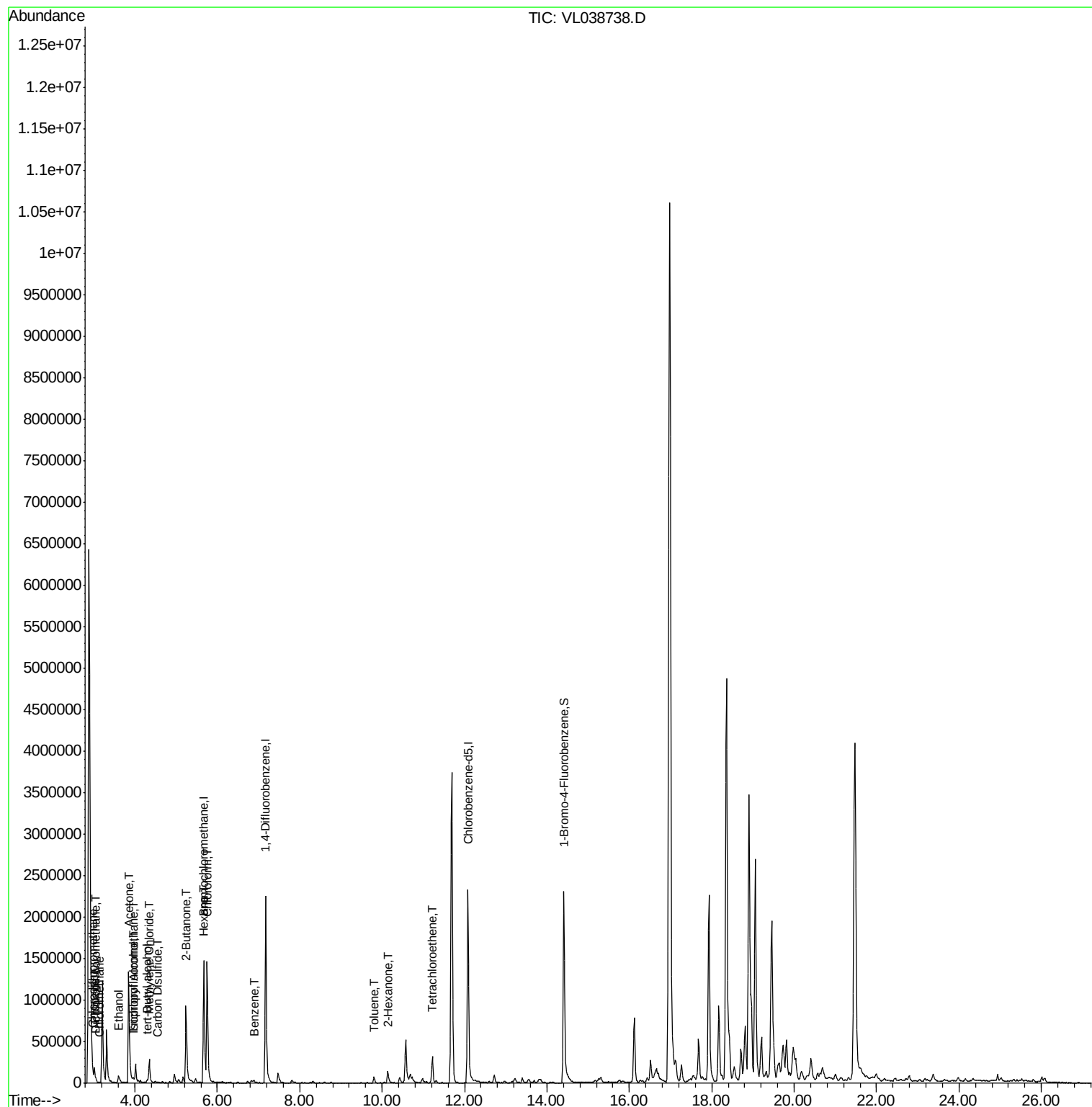
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	28652	0.29	ppbv	94
3) Chlorodifluoromethane	2.99	51	22707	0.29	ppbv	95
4) Chloromethane	3.15	50	7528	0.18	ppbv #	85
9) Propene	3.01	41	78892	2.10	ppbv	99
11) Trichlorofluoromethane	3.95	101	24341	0.28	ppbv	88
13) Ethanol	3.61	45	123552	29.80	ppbv	95
15) Acetone	3.85	43	1729434	27.19	ppbv	90
17) tert-Butyl alcohol	4.30	59	40594	0.73	ppbv #	93
19) Isopropyl Alcohol	3.97	45	23298	0.66	ppbv #	1
20) Methylene Chloride	4.35	84	123817	4.62	ppbv	96
26) Hexane	5.69	57	80910	1.13	ppbv #	37
27) Carbon Disulfide	4.55	76	7717	0.11	ppbv #	81
29) Chloroform	5.75	83	1224412	10.67	ppbv	100
34) 2-Butanone	5.24	43	1358359	17.14	ppbv	99
36) Benzene	6.89	78	21609	0.14	ppbv #	92
51) 2-Hexanone	10.14	43	126652	1.20	ppbv #	95
52) Tetrachloroethene	11.22	164	85207	1.51	ppbv	89
53) Toluene	9.81	91	52395	0.32	ppbv	96

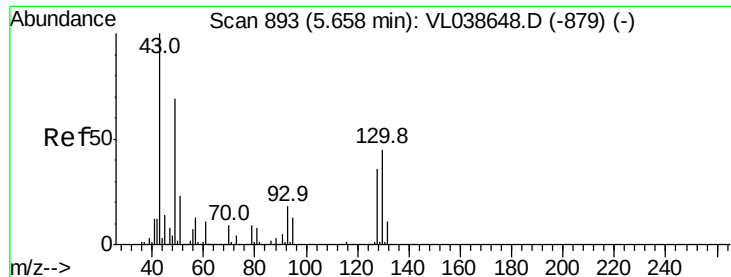
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 5:48

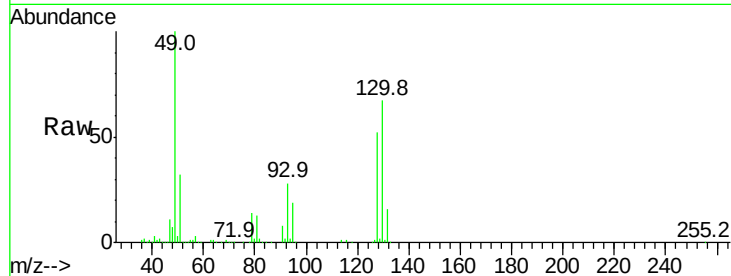
Tgt Ion: 49 Resp: 737051

Ion Ratio Lower Upper

49 100

128 56.4 26.2 78.6

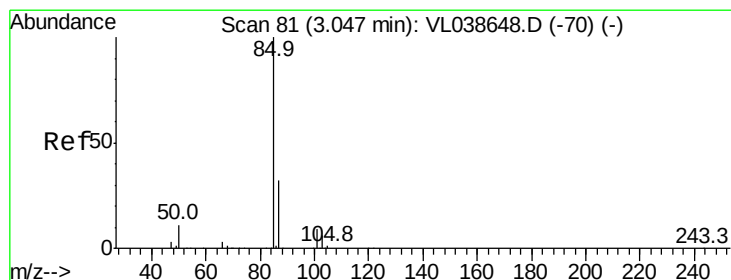
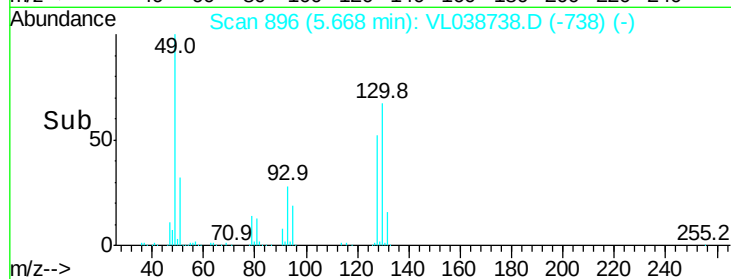
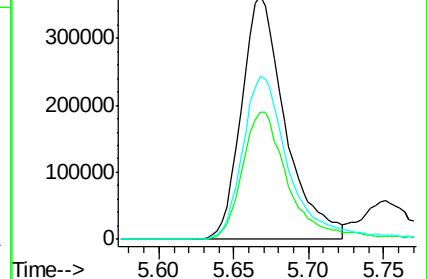
130 73.5 33.7 101.1



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: 0.29 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038738.D

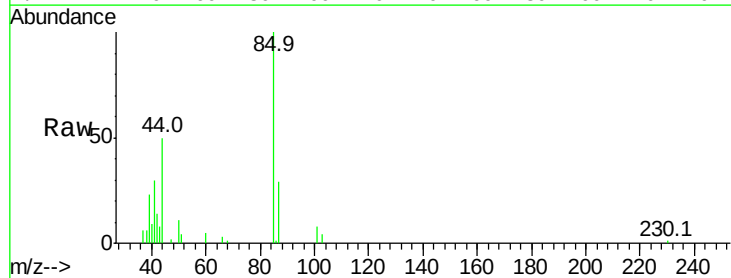
Acq: 24 Mar 2022 5:48

Tgt Ion: 85 Resp: 28652

Ion Ratio Lower Upper

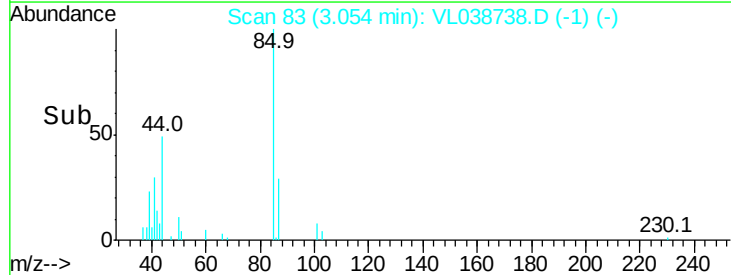
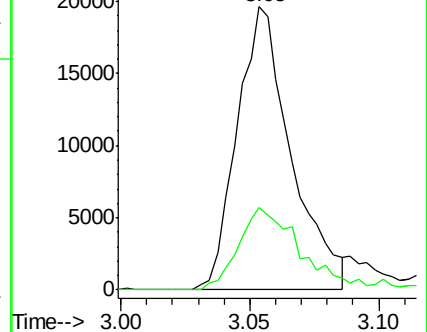
85 100

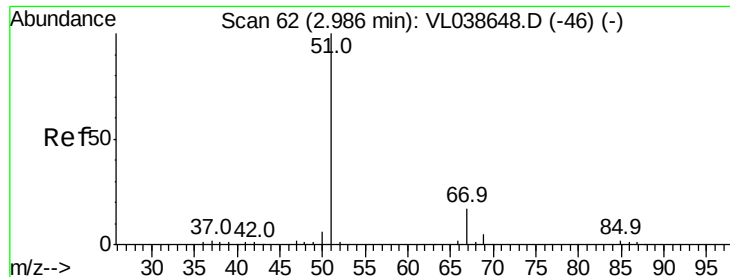
87 29.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

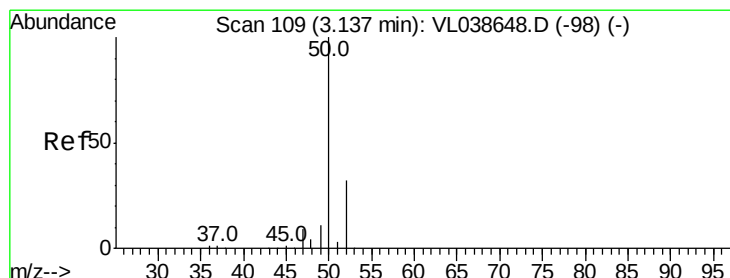
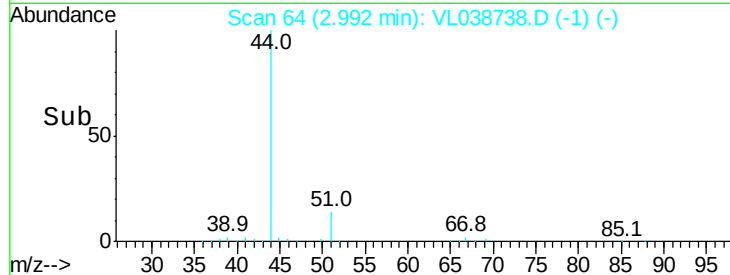
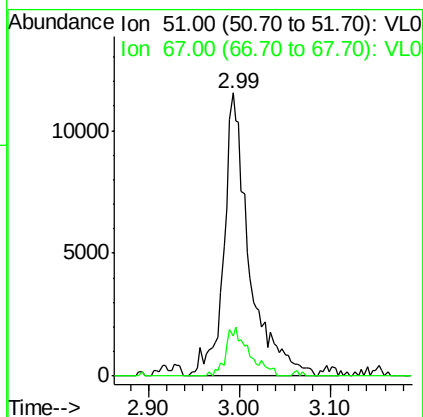
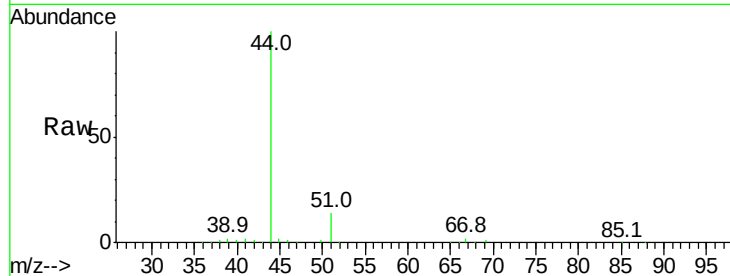
Ion 87.00 (86.70 to 87.70): VL0





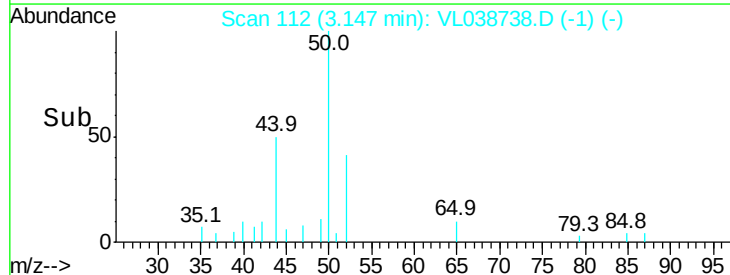
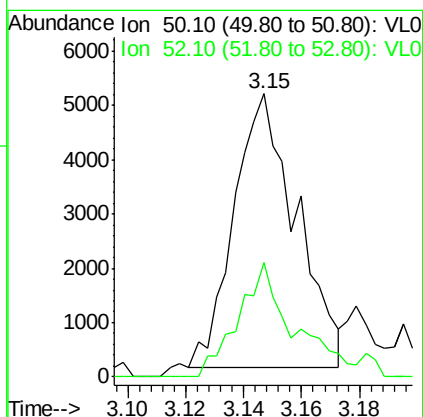
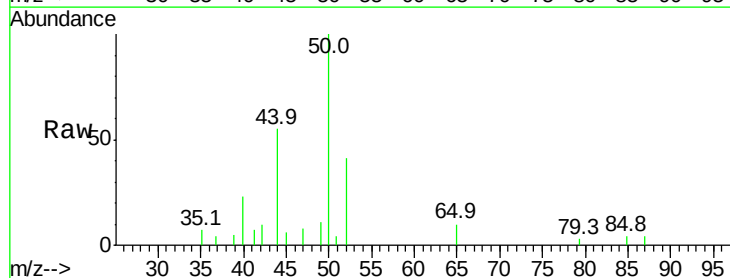
#3
 Chlorodifluoromethane
 Concen: 0.29 ppbv
 RT: 2.99
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 COP92
 Acq: 24 Mar 2022 5:48

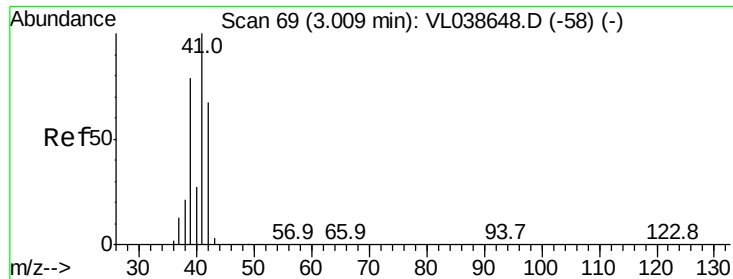
Tgt Ion: 51 Resp: 22707
 Ion Ratio Lower Upper
 51 100
 67 15.5 14.1 21.1



#4
 Chloromethane
 Concen: 0.18 ppbv
 RT: 3.15 min Scan# 112
 Delta R.T. 0.01 min
 Lab File: VL038738.D
 Acq: 24 Mar 2022 5:48

Tgt Ion: 50 Resp: 7528
 Ion Ratio Lower Upper
 50 100
 52 40.4 25.5 38.3#





#9

Propene

Concen: 2.10 ppbv

RT: 3.01 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

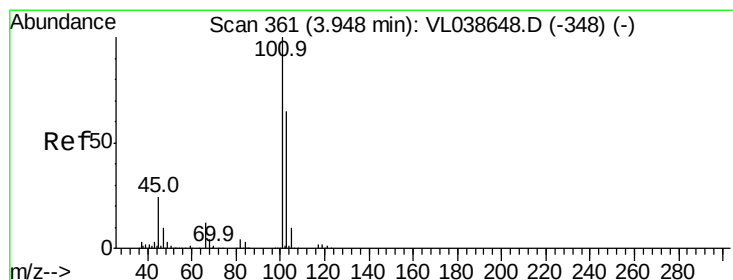
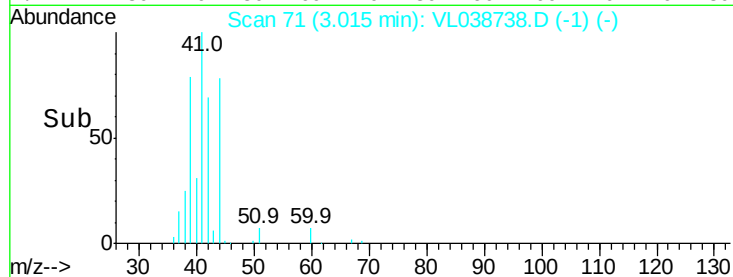
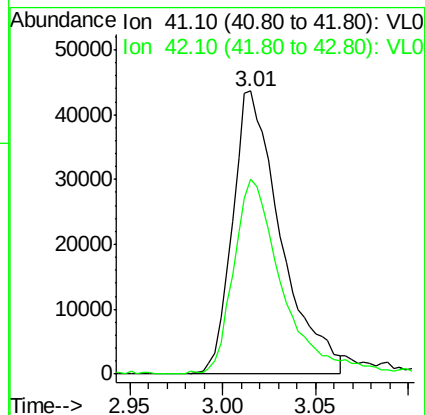
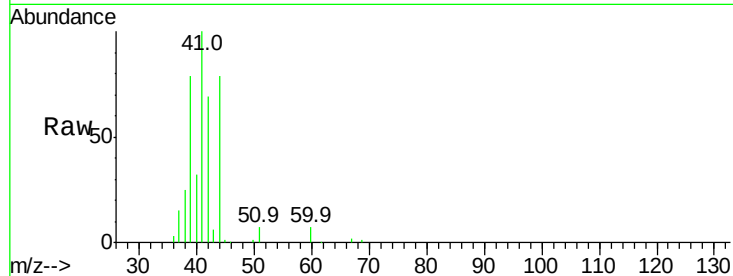
Acq: 24 Mar 2022 5:48

Tgt Ion: 41 Resp: 78892

Ion Ratio Lower Upper

41 100

42 70.9 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.28 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL038738.D

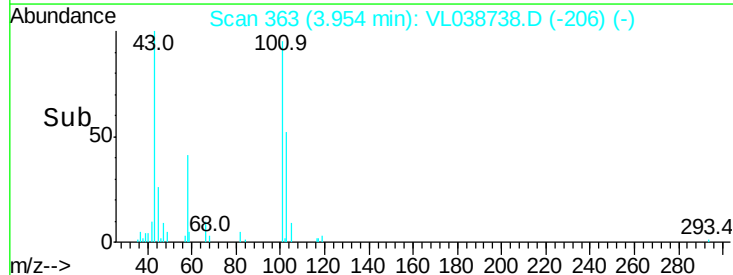
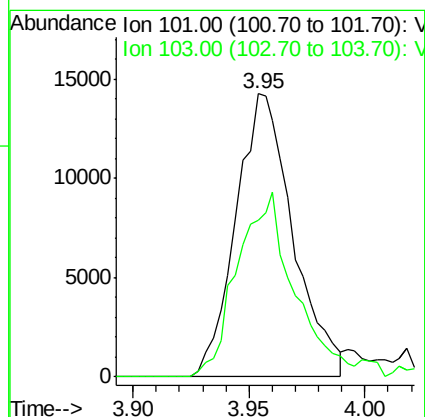
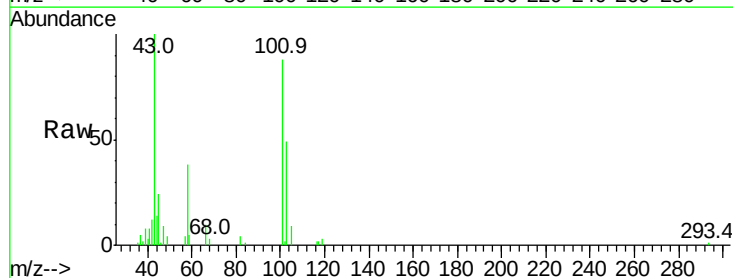
Acq: 24 Mar 2022 5:48

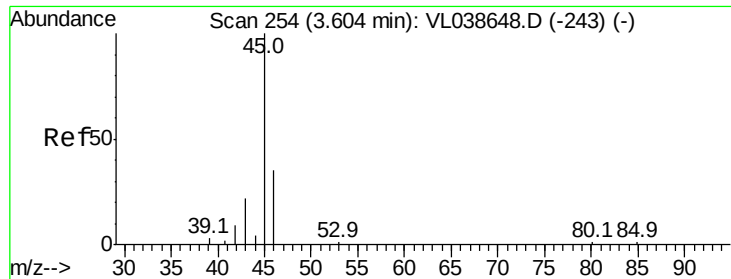
Tgt Ion: 101 Resp: 24341

Ion Ratio Lower Upper

101 100

103 55.3 51.9 77.9





#13

Ethanol

Concen: 29.80 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

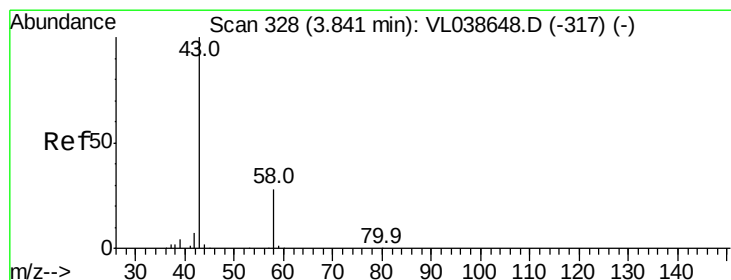
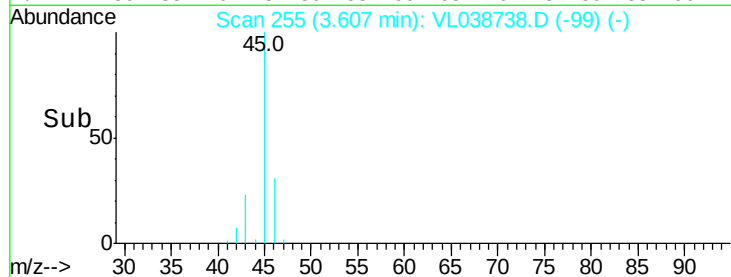
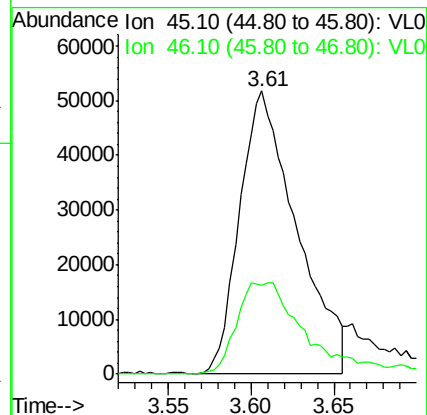
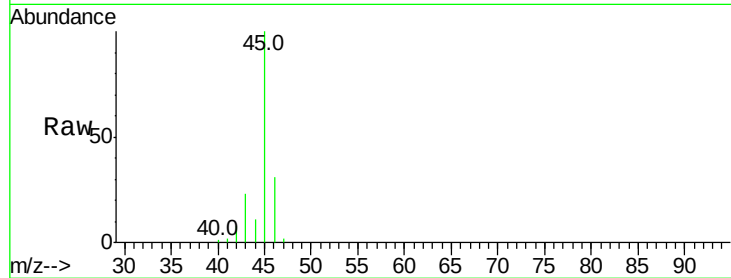
Acq: 24 Mar 2022 5:48

Tgt Ion: 45 Resp: 123552

Ion Ratio Lower Upper

45 100

46 40.7 15.1 60.5



#15

Acetone

Concen: 27.19 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL038738.D

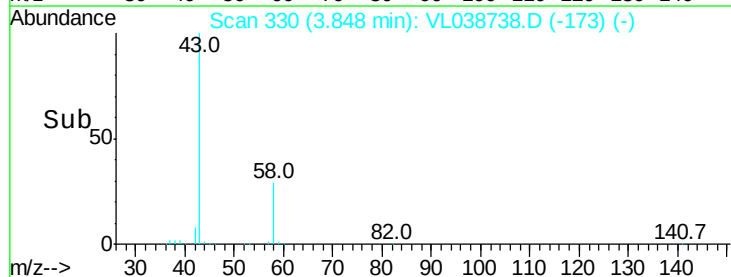
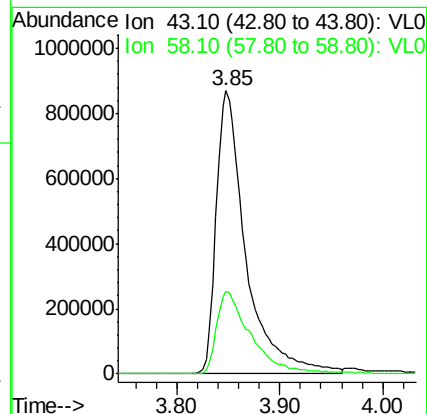
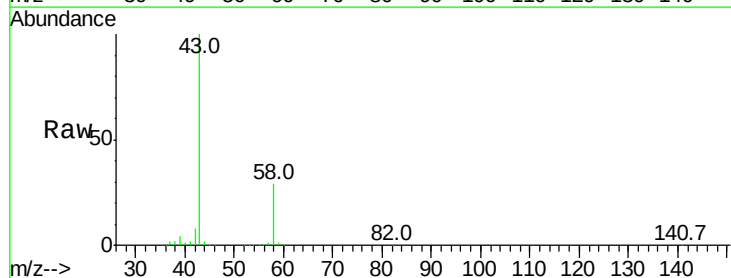
Acq: 24 Mar 2022 5:48

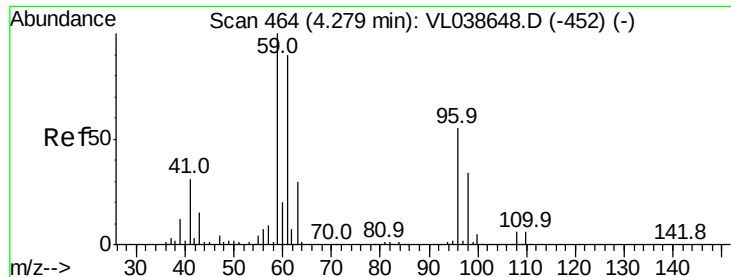
Tgt Ion: 43 Resp: 1729434

Ion Ratio Lower Upper

43 100

58 34.7 23.3 34.9





#17

tert-Butyl alcohol

Concen: 0.73 ppbv

RT: 4.30 Instrument: MSVOA_1

Delta R.T. 0.02 min

Lab File: ClientSampleId: C0P92

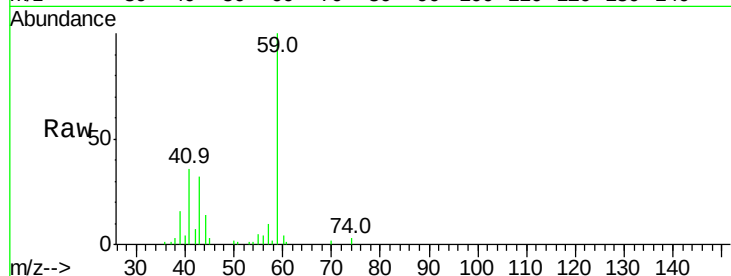
Acq: 24 Mar 2022 5:48

Tgt Ion: 59 Resp: 40594

Ion Ratio Lower Upper

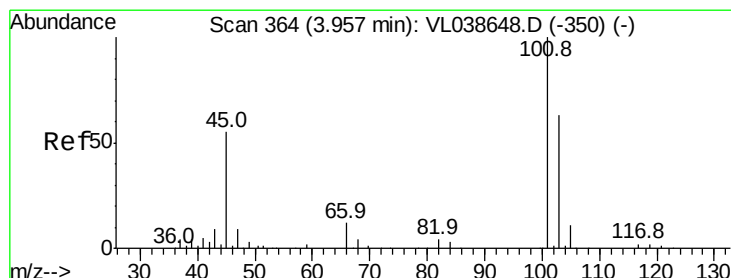
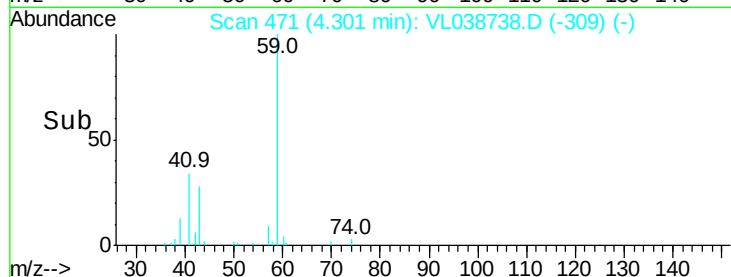
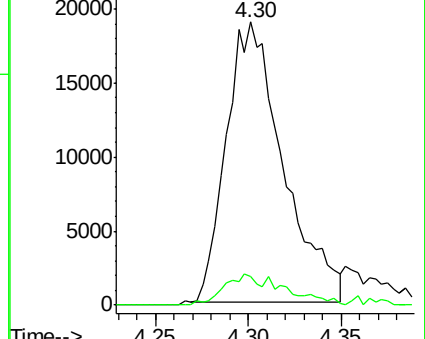
59 100

57 12.9 8.2 12.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 0.66 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.02 min

Lab File: VL038738.D

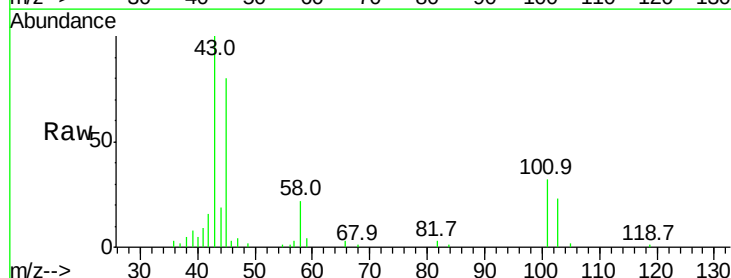
Acq: 24 Mar 2022 5:48

Tgt Ion: 45 Resp: 23298

Ion Ratio Lower Upper

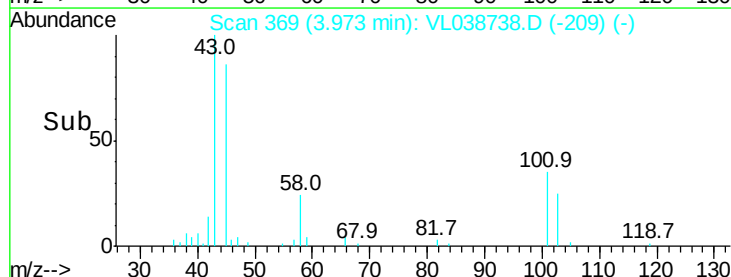
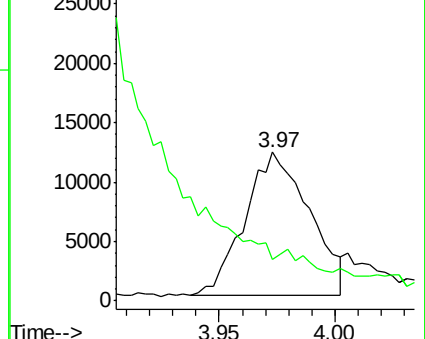
45 100

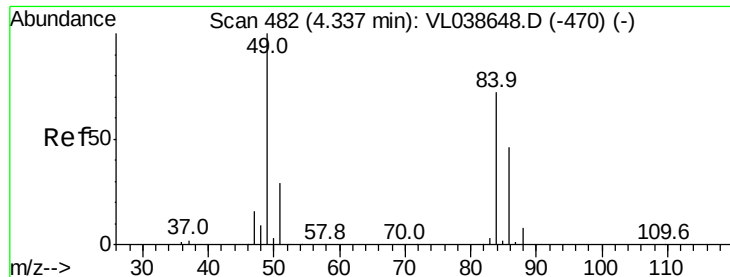
58 2575.7 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

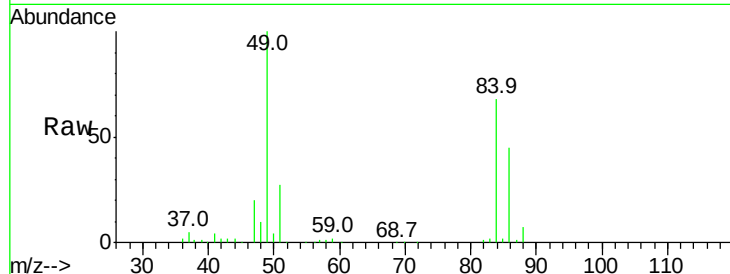
Ion 58.10 (57.80 to 58.80): VL0





#20
Methylene Chloride
Concen: 4.62 ppbv
RT: 4.35
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 5:48

Tgt Ion:	84	Resp:	123817
Ion	Ratio	Lower	Upper
84	100		
49	146.4	111.2	166.8
51	39.2	32.8	49.2
86	65.7	51.4	77.0



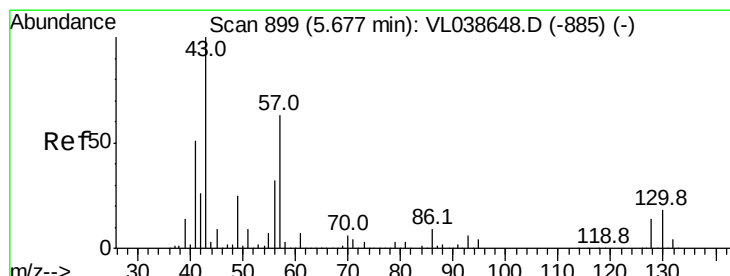
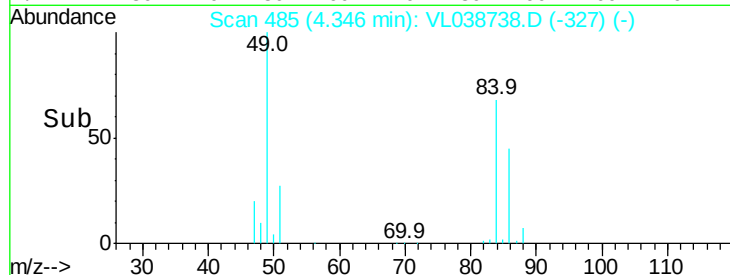
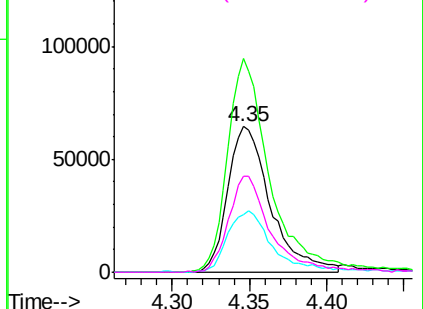
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

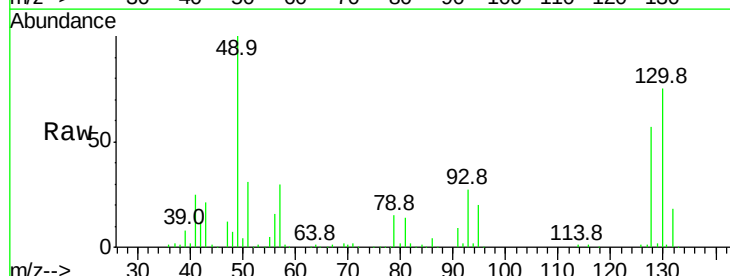
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#26
Hexane
Concen: 1.13 ppbv
RT: 5.69 min Scan# 902
Delta R.T.: 0.01 min
Lab File: VL038738.D
Acq: 24 Mar 2022 5:48

Tgt Ion:	57	Resp:	80910
Ion	Ratio	Lower	Upper
57	100		
41	105.0	67.0	100.4#
43	82.2	184.2	276.2#
56	61.5	42.6	64.0



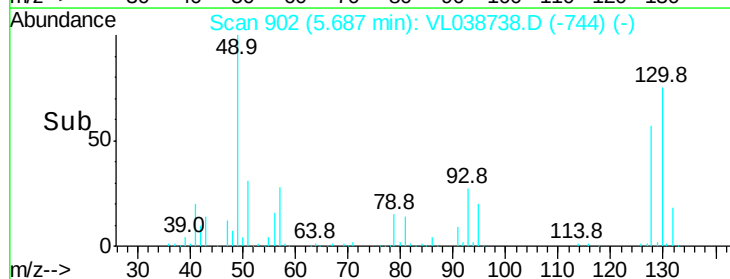
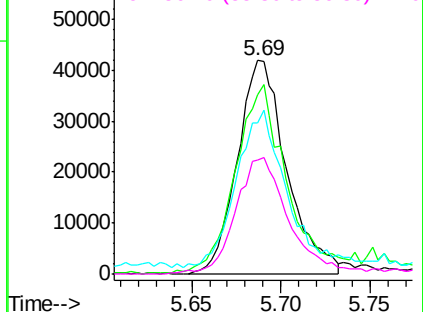
Abundance

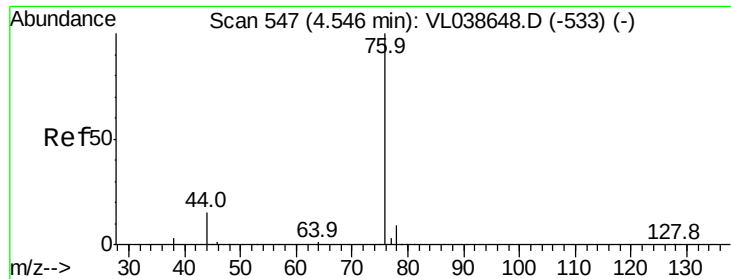
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

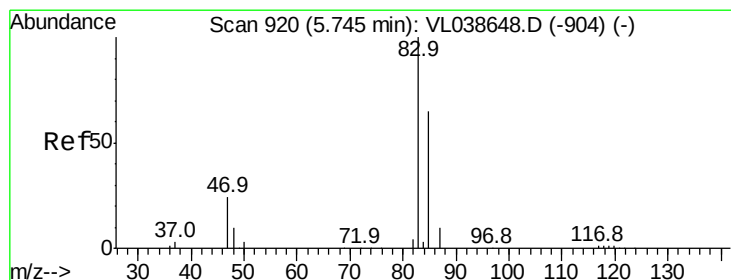
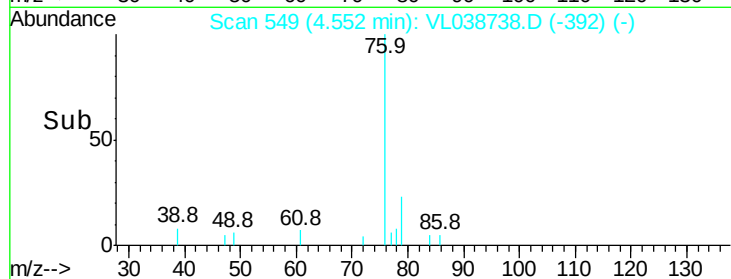
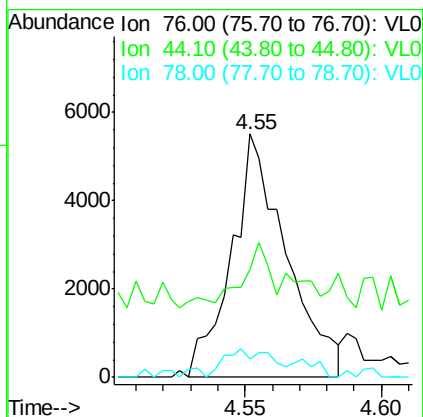
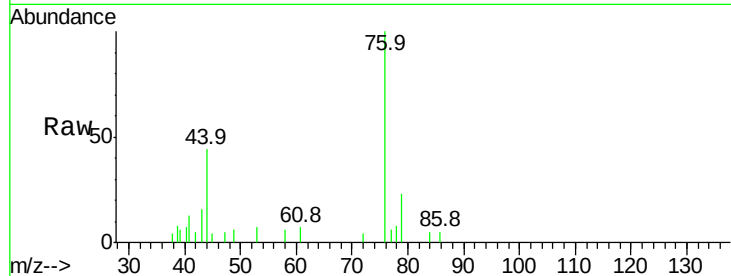
Ion 56.10 (55.80 to 56.80): VL0





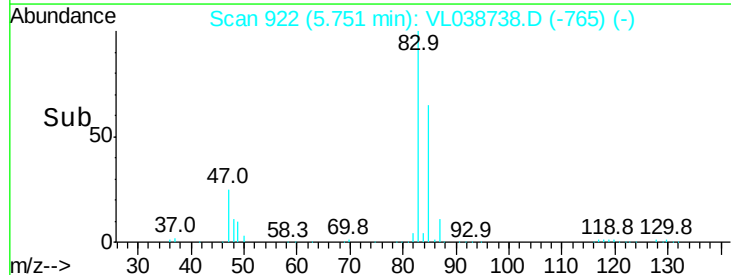
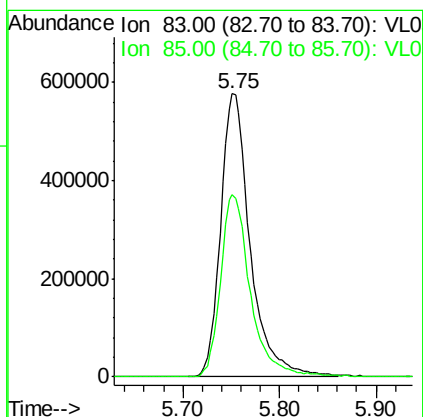
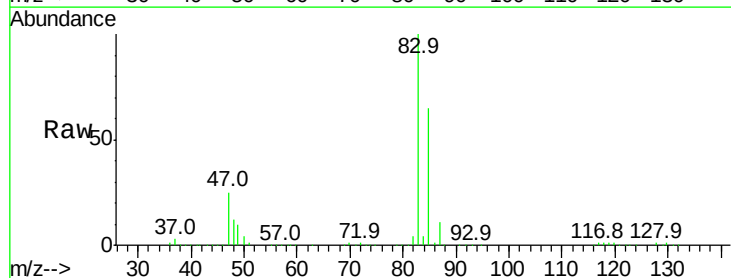
#27
Carbon Disulfide
Concen: 0.11 ppbv
RT: 4.55
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP92
Acq: 24 Mar 2022 5:48

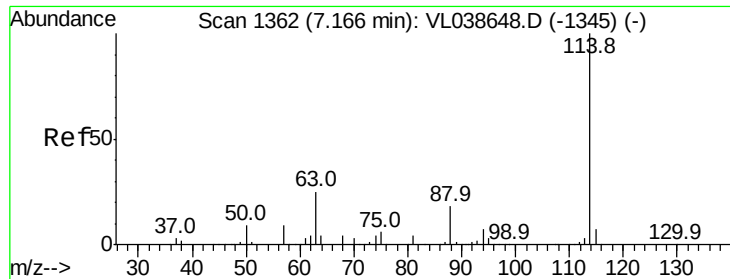
Tgt Ion: 76 Resp: 7717
Ion Ratio Lower Upper
76 100
44 24.3 12.4 18.6#
78 15.6 7.8 11.8#



#29
Chloroform
Concen: 10.67 ppbv
RT: 5.75 min Scan# 922
Delta R.T. 0.01 min
Lab File: VL038738.D
Acq: 24 Mar 2022 5:48

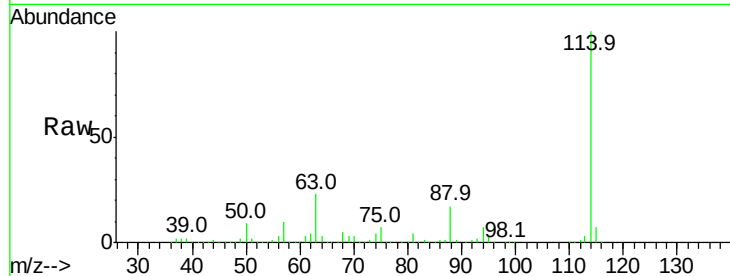
Tgt Ion: 83 Resp: 1224412
Ion Ratio Lower Upper
83 100
85 64.5 51.7 77.5



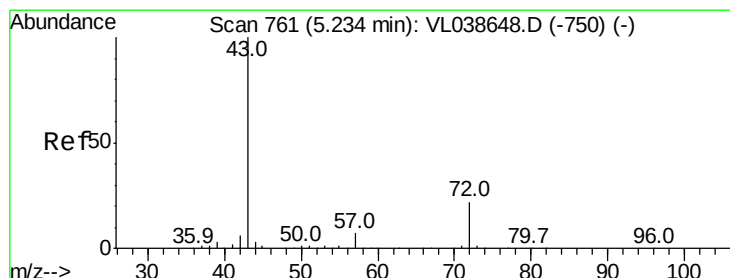
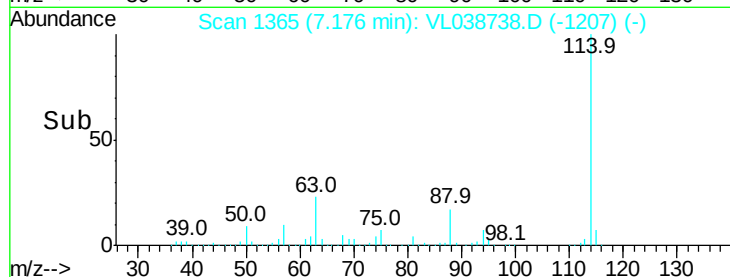
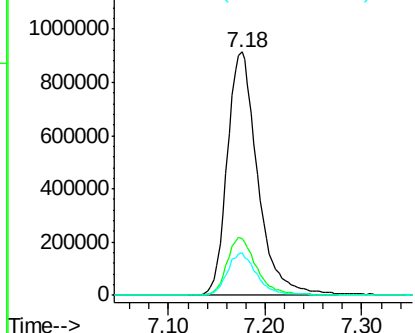


#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 5:48

Tgt Ion: 114 Resp: 2002445
 Ion Ratio Lower Upper
 114 100
 63 23.5 19.4 29.0
 88 17.1 13.9 20.9

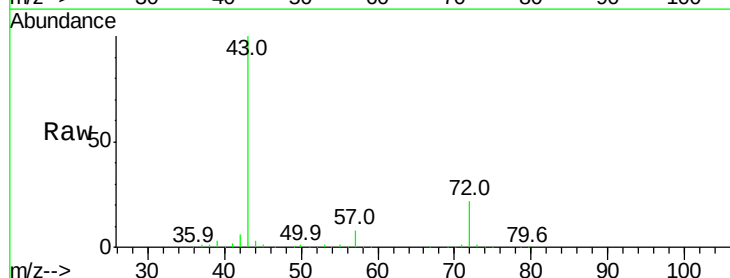


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

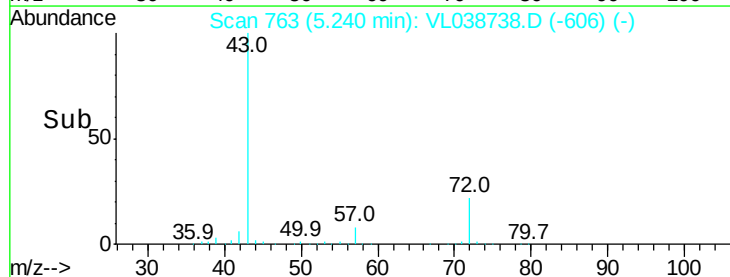
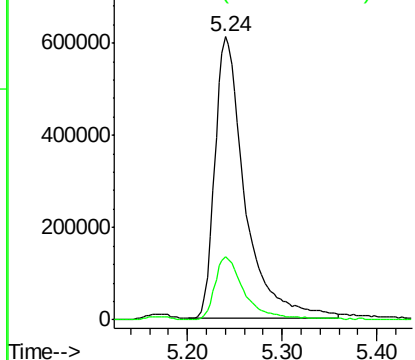


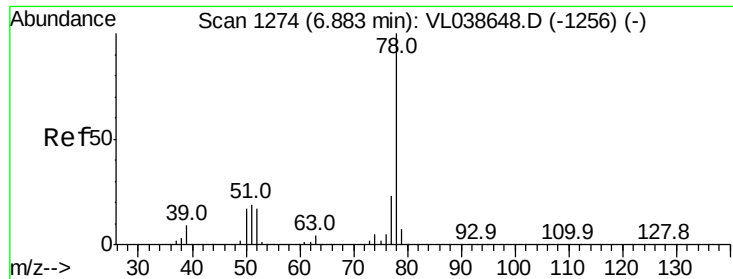
#34
 2-Butanone
 Concen: 17.14 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL038738.D
 Acq: 24 Mar 2022 5:48

Tgt Ion: 43 Resp: 1358359
 Ion Ratio Lower Upper
 43 100
 72 22.6 17.8 26.8



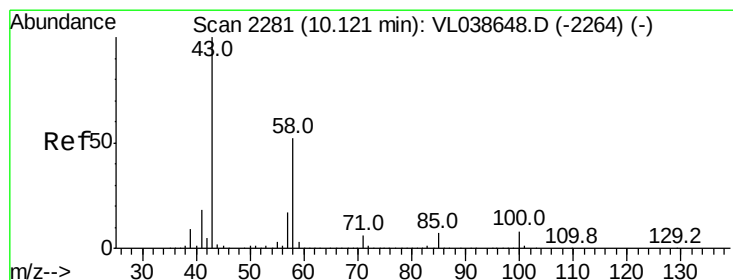
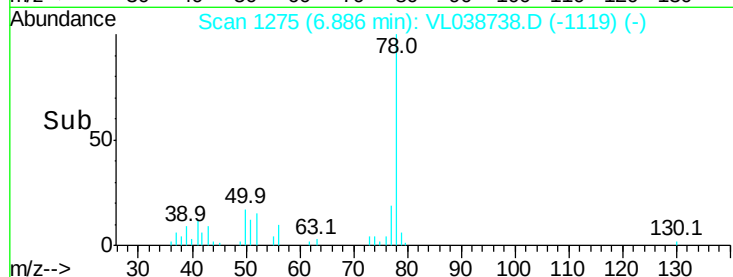
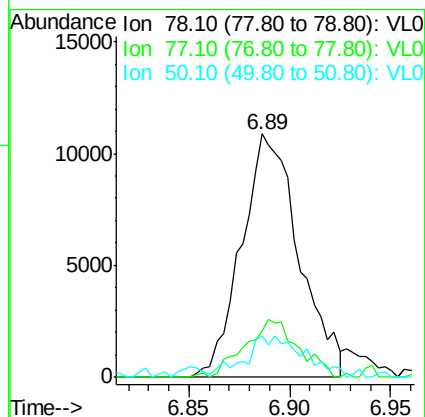
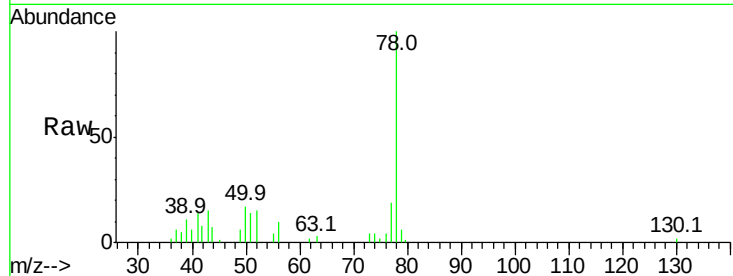
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





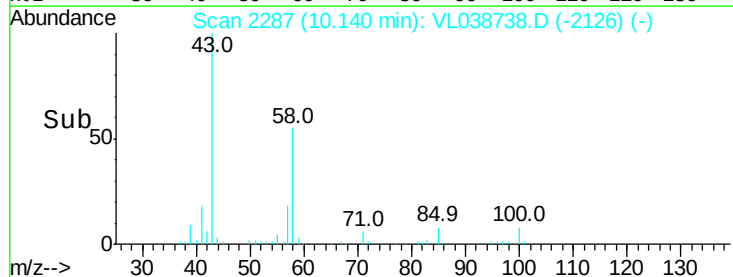
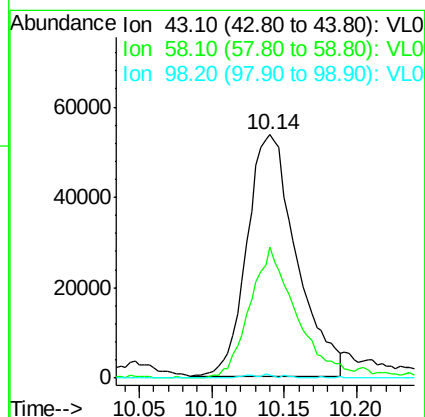
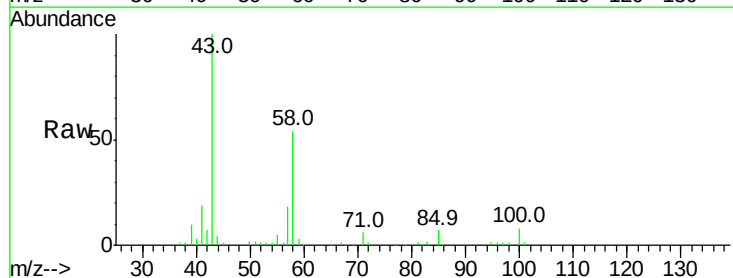
#36
Benzene
Concen: 0.14 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP92
Acq: 24 Mar 2022 5:48

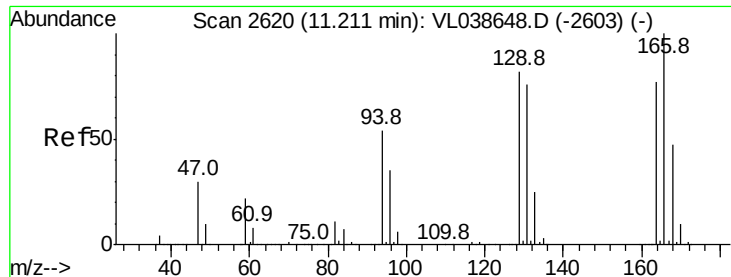
Tgt Ion: 78 Resp: 21609
Ion Ratio Lower Upper
78 100
77 19.1 18.1 27.1
50 12.8 13.6 20.4#



#51
2-Hexanone
Concen: 1.20 ppbv
RT: 10.14 min Scan# 2287
Delta R.T. 0.02 min
Lab File: VL038738.D
Acq: 24 Mar 2022 5:48

Tgt Ion: 43 Resp: 126652
Ion Ratio Lower Upper
43 100
58 54.8 41.2 61.8
98 1.1 0.2 0.4#





#52

Tetrachloroethene

Concen: 1.51 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 5:48

Tgt Ion: 164 Resp: 85207

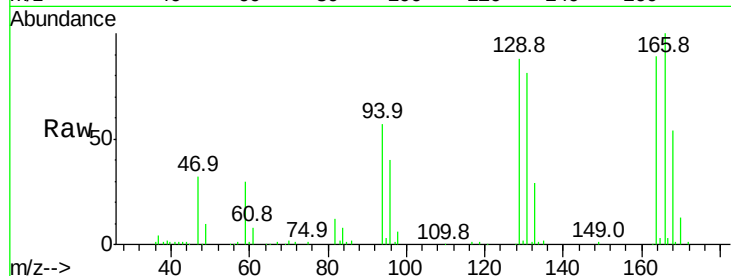
Ion Ratio Lower Upper

164 100

166 110.8 103.3 154.9

129 97.9 85.2 127.8

131 89.9 78.3 117.5

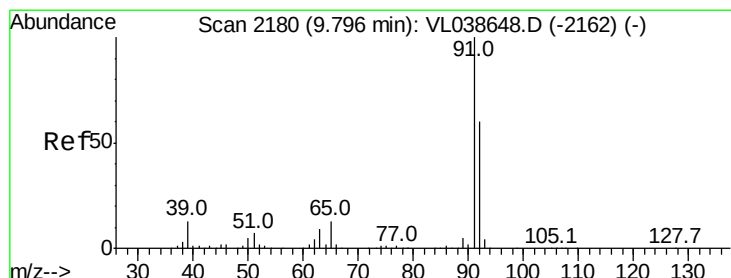
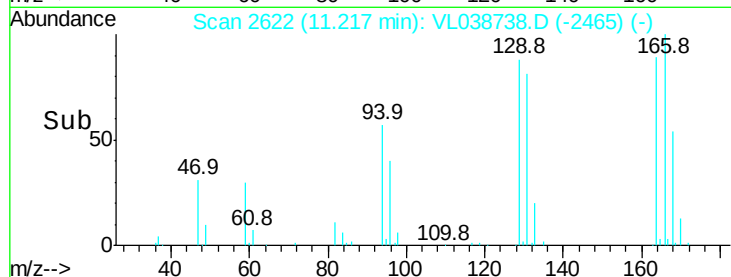
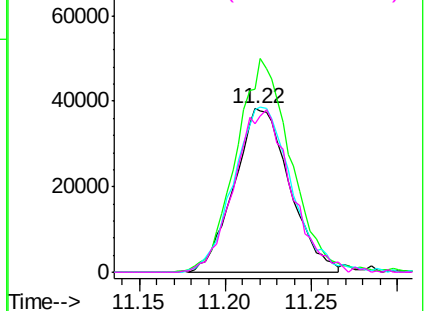


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.32 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.01 min

Lab File: VL038738.D

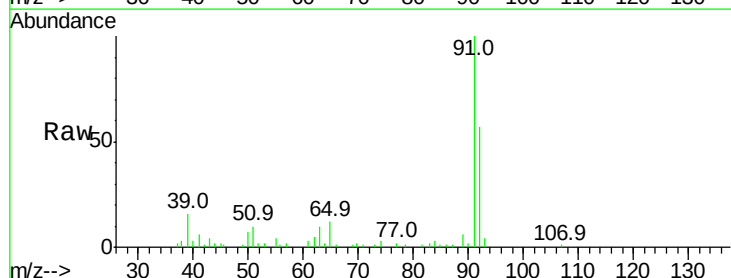
Acq: 24 Mar 2022 5:48

Tgt Ion: 91 Resp: 52395

Ion Ratio Lower Upper

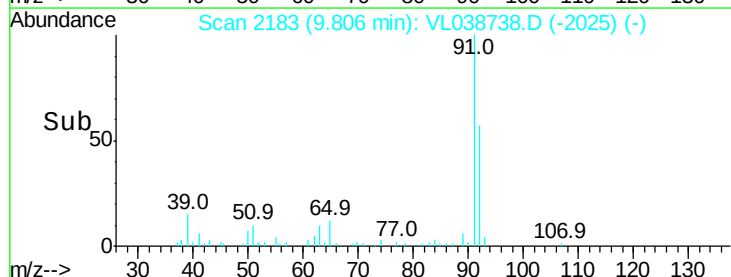
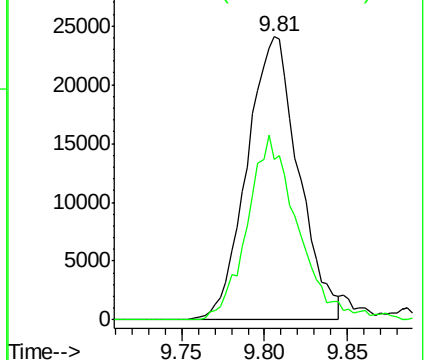
91 100

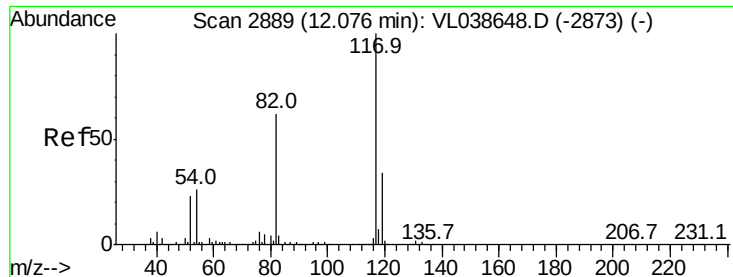
92 63.9 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

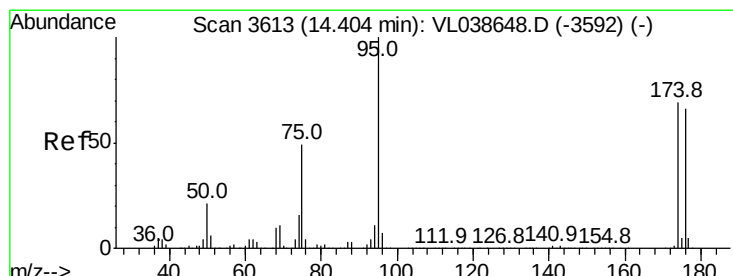
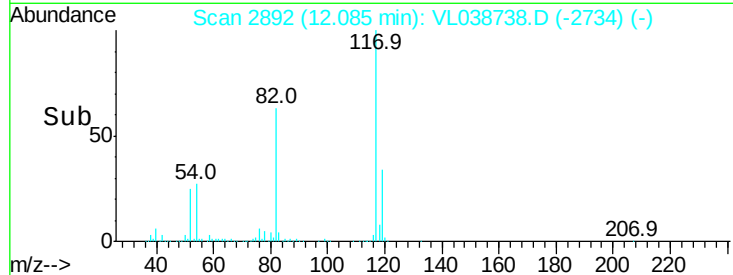
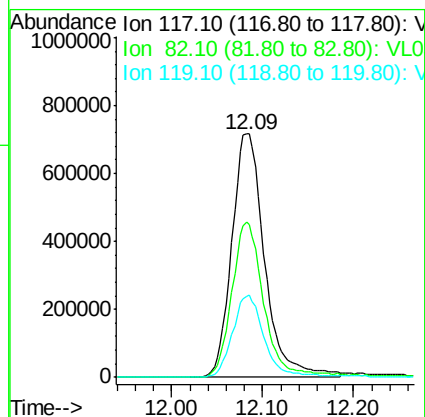
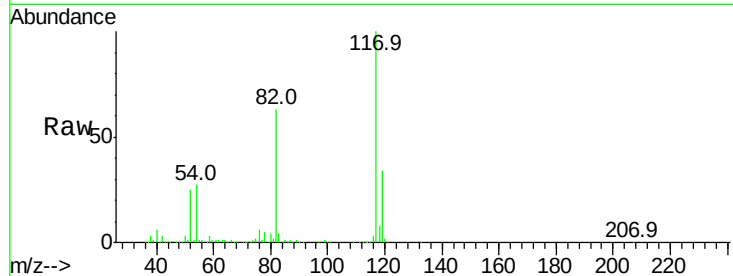
Ion 92.10 (91.80 to 92.80): VL0





#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.09 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 C0P92
 Acq: 24 Mar 2022 5:48

Tgt Ion: 117 Resp: 1799243
 Ion Ratio Lower Upper
 117 100
 82 64.1 51.6 77.4
 119 33.4 26.9 40.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.54 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T.: 0.01 min
 Lab File: VL038738.D
 Acq: 24 Mar 2022 5:48

Tgt Ion: 95 Resp: 1315577
 Ion Ratio Lower Upper
 95 100
 174 71.2 56.1 84.1
 175 4.9 4.2 6.2

