

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112921\
 Data File : VL038138.D
 Acq On : 29 Nov 2021 16:55
 Operator : SY/AP
 Sample : M4827-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Quant Time: Nov 30 05:16:24 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	988832	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2657778	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2263531	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1789635	10.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.60%

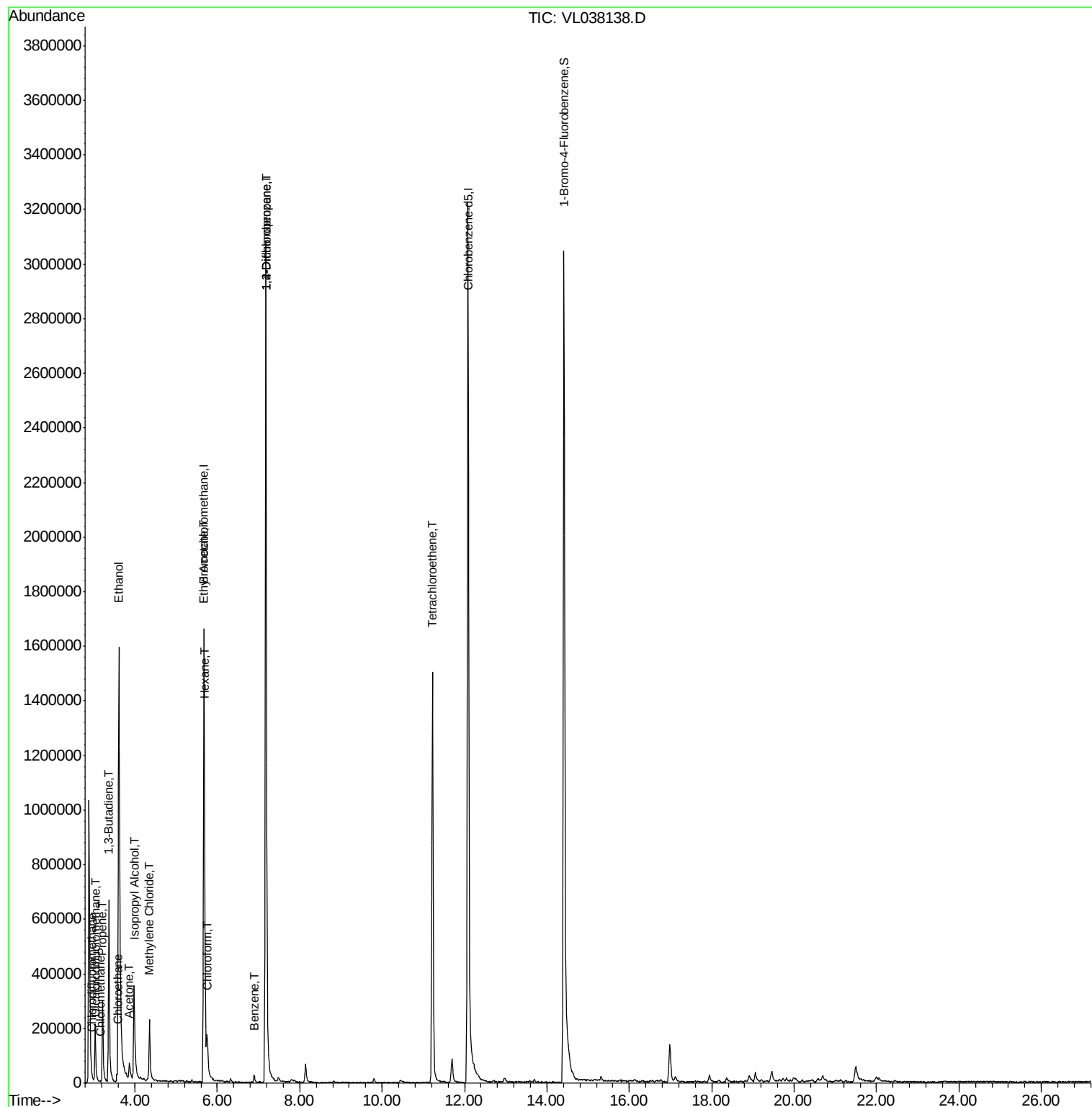
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	8306	0.051	ppbv	93
3) Chlorodifluoromethane	2.97	51	10909	0.053	ppbv #	79
4) Chloromethane	3.15	50	2775	0.039	ppbv	92
7) Chloroethane	3.57	64	23452	0.953	ppbv	96
9) Propene	3.22	41	108152	1.414	ppbv	97
13) Ethanol	3.61	45	2423734	327.949	ppbv	89
15) Acetone	3.86	43	65493	0.764	ppbv	100
16) 1,3-Butadiene	3.37	39	100453	1.502	ppbv #	12
19) Isopropyl Alcohol	3.98	45	494203	7.978	ppbv #	97
20) Methylene Chloride	4.35	84	94258	1.963	ppbv	94
25) Ethyl Acetate	5.69	43	12339	0.043	ppbv #	86
26) Hexane	5.69	57	34441	0.251	ppbv #	46
29) Chloroform	5.76	83	84852	0.419	ppbv	96
36) Benzene	6.89	78	11491	0.043	ppbv #	87
39) 1,2-Dichloropropane	7.18	63	686139	6.747	ppbv #	27
52) Tetrachloroethene	11.22	164	379648	3.870	ppbv	96

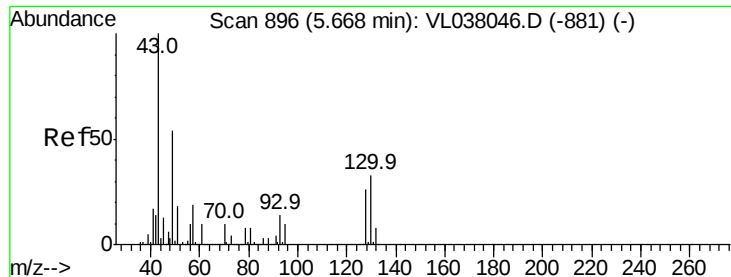
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 29 Nov 2021 16:55

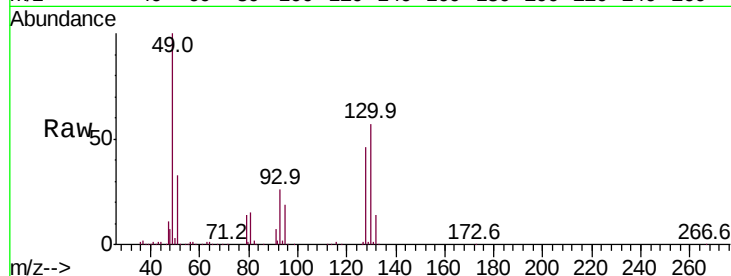
Tot Ion: 49 Resp: 988832

Ion Ratio Lower Upper

49 100

128 47.2 26.5 79.5

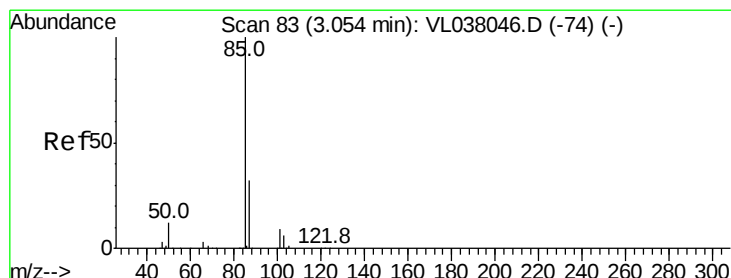
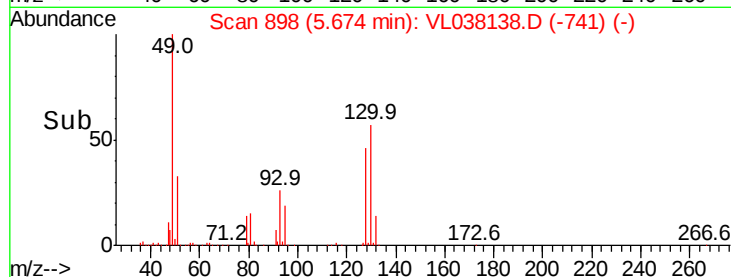
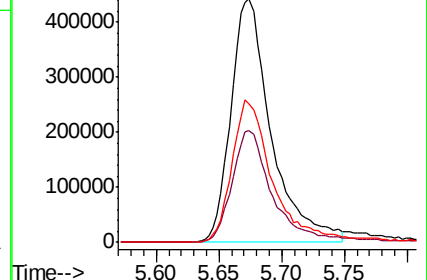
130 62.0 32.5 97.4



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: 0.051 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL038138.D

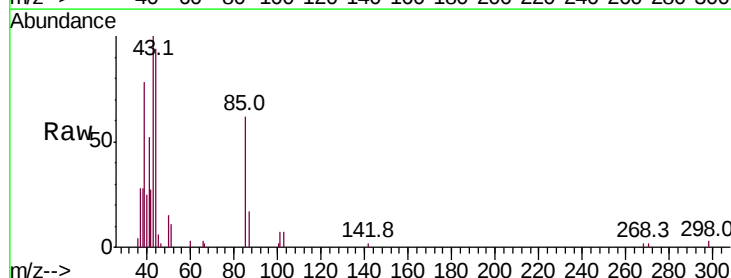
Acq: 29 Nov 2021 16:55

Tgt Ion: 85 Resp: 8306

Ion Ratio Lower Upper

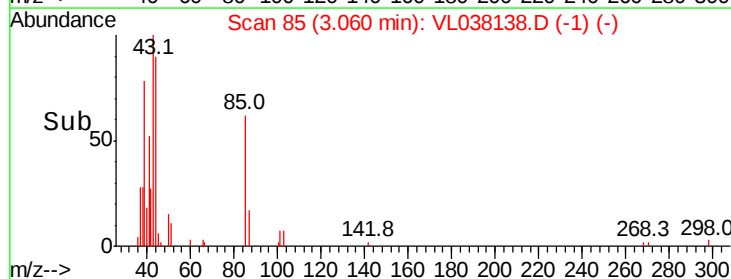
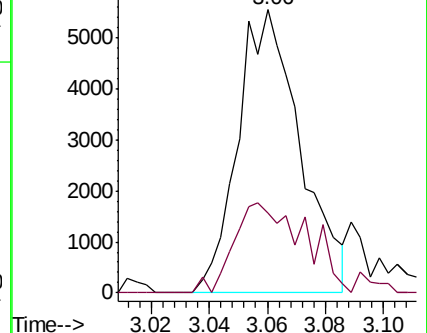
85 100

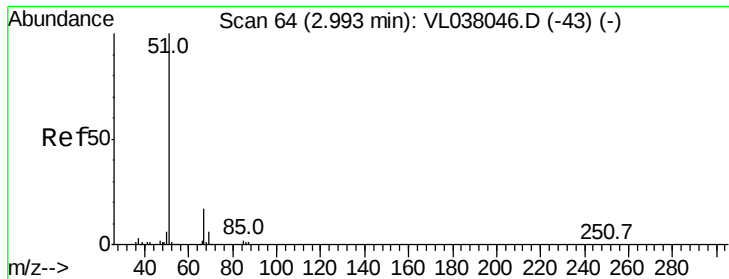
87 28.1 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.053 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

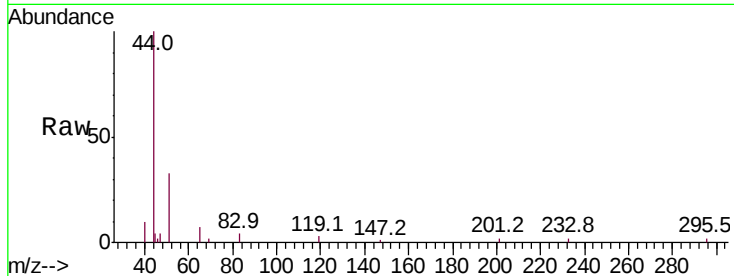
Acq: 29 Nov 2021 16:55

Tot Ion: 51 Resp: 10909

Ion Ratio Lower Upper

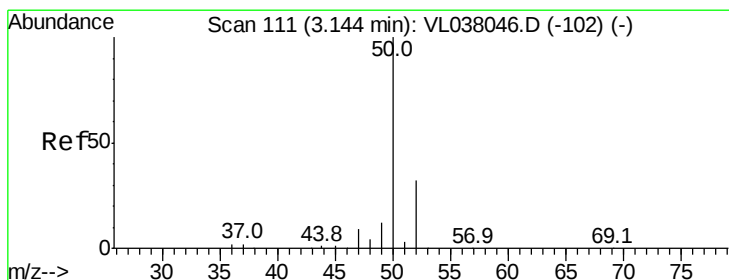
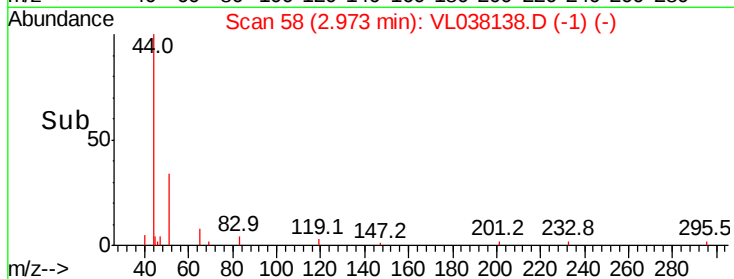
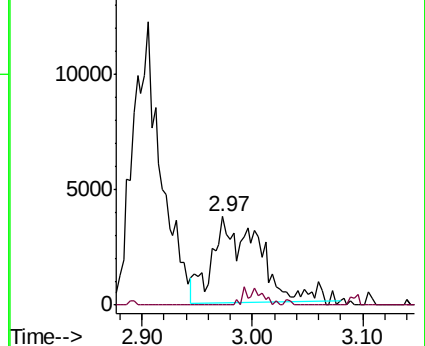
51 100

67 8.3 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.039 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL038138.D

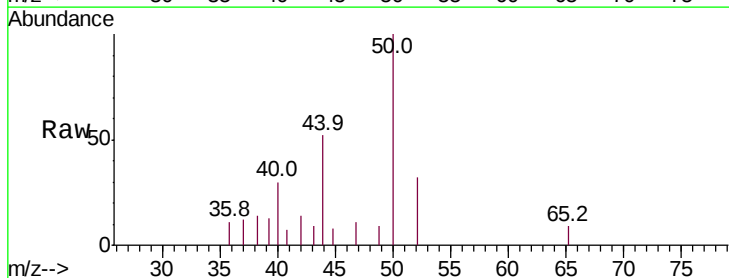
Acq: 29 Nov 2021 16:55

Tgt Ion: 50 Resp: 2775

Ion Ratio Lower Upper

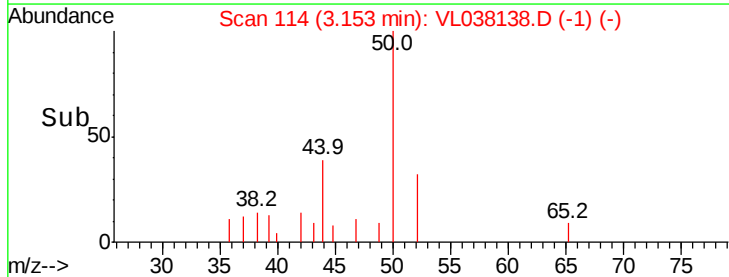
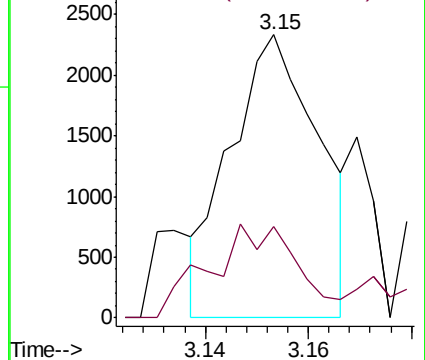
50 100

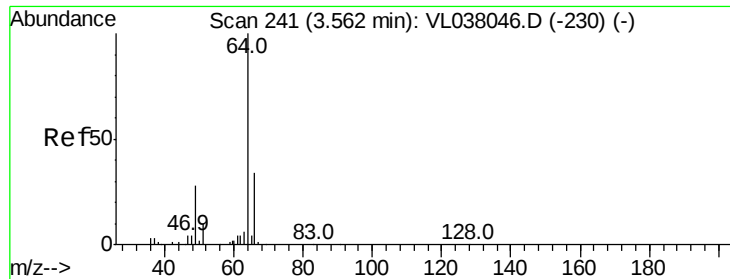
52 35.9 25.4 38.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.953 ppbv

RT: 3.57

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

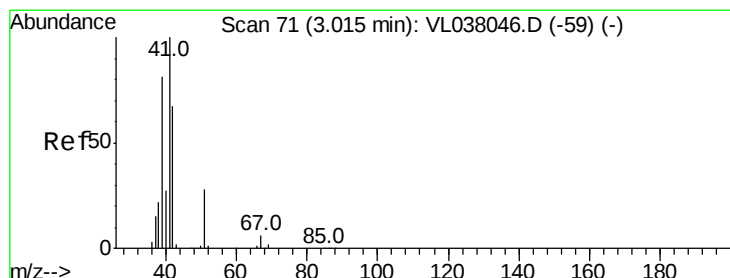
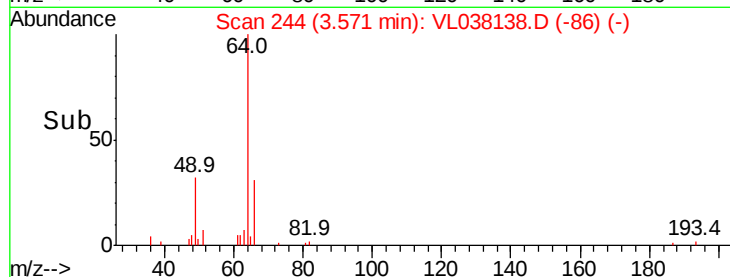
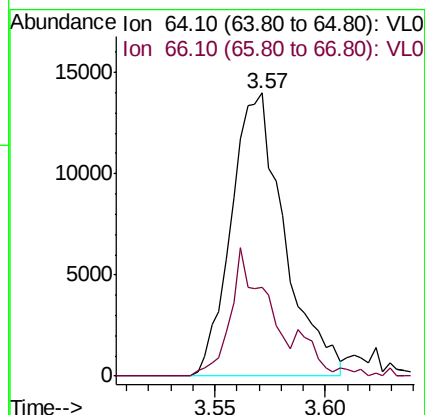
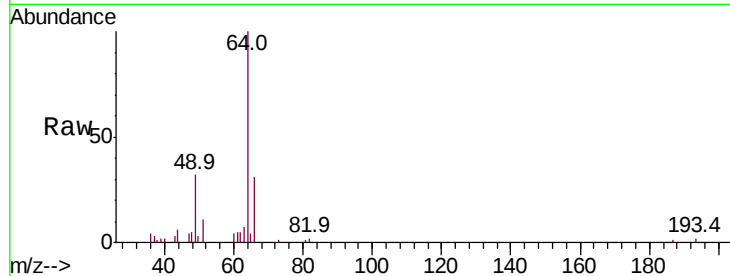
Acq: 29 Nov 2021 16:55

Tot Ion: 64 Resp: 23452

Ion Ratio Lower Upper

64 100

66 31.5 27.2 40.8



#9

Propene

Concen: 1.414 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.20 min

Lab File: VL038138.D

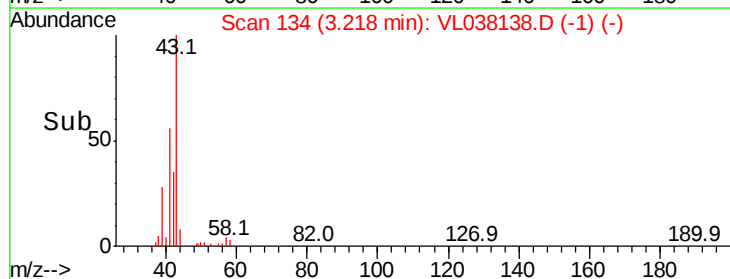
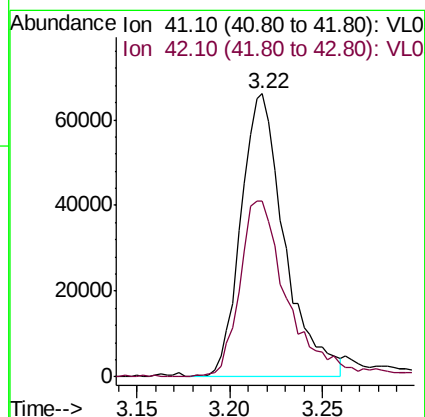
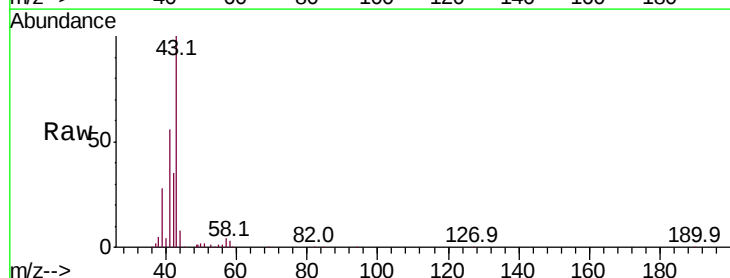
Acq: 29 Nov 2021 16:55

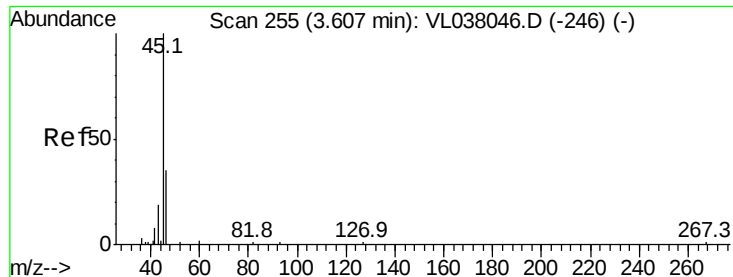
Tgt Ion: 41 Resp: 108152

Ion Ratio Lower Upper

41 100

42 70.0 53.8 80.8





#13

Ethanol

Concen: 327.949 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

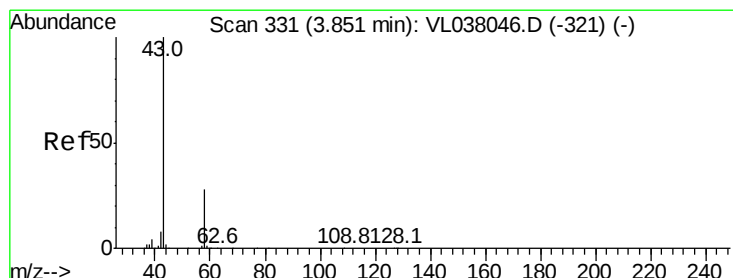
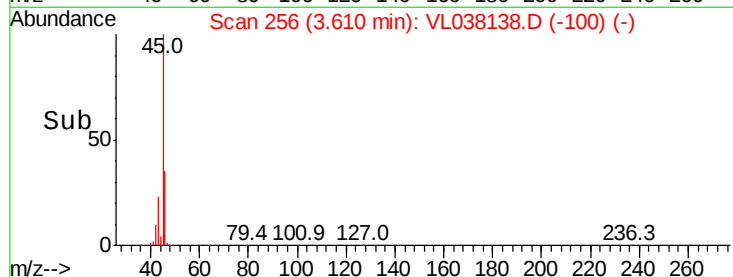
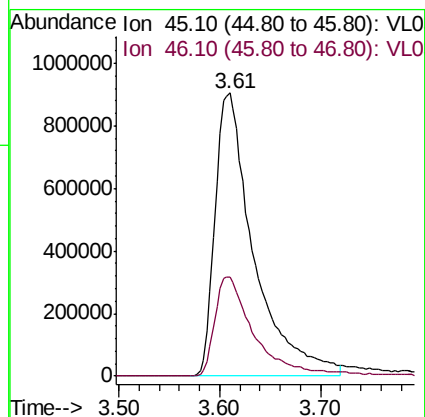
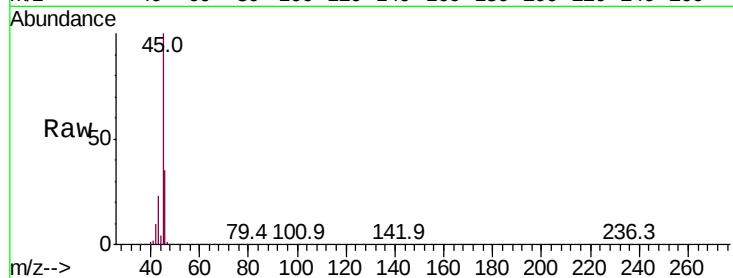
Acq: 29 Nov 2021 16:55

Tot Ion: 45 Resp: 2423734

Ion Ratio Lower Upper

45 100

46 36.8 17.6 70.2



#15

Acetone

Concen: 0.764 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL038138.D

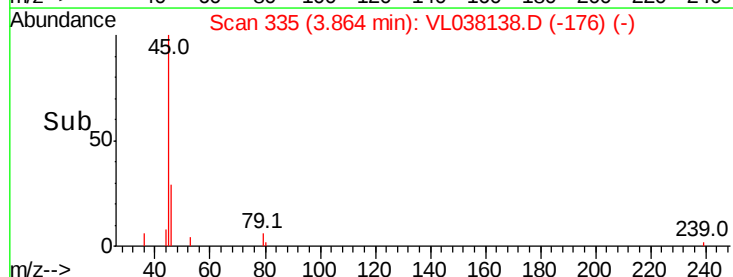
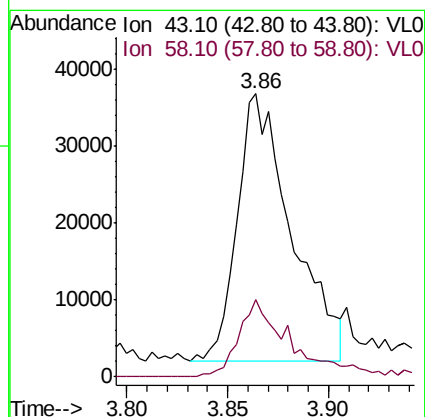
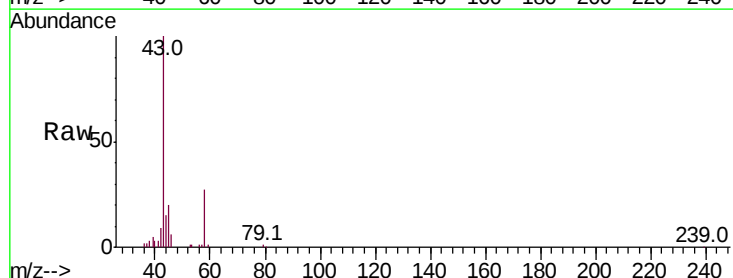
Acq: 29 Nov 2021 16:55

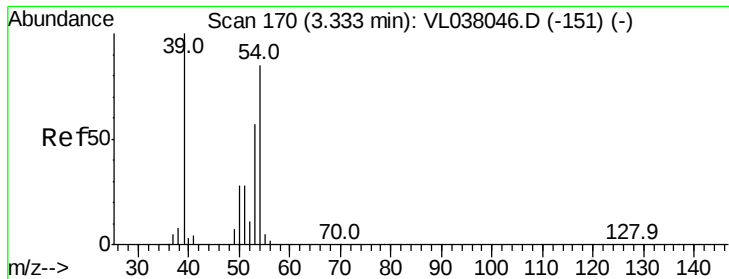
Tgt Ion: 43 Resp: 65493

Ion Ratio Lower Upper

43 100

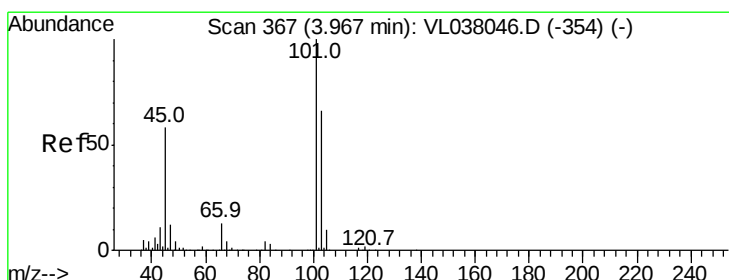
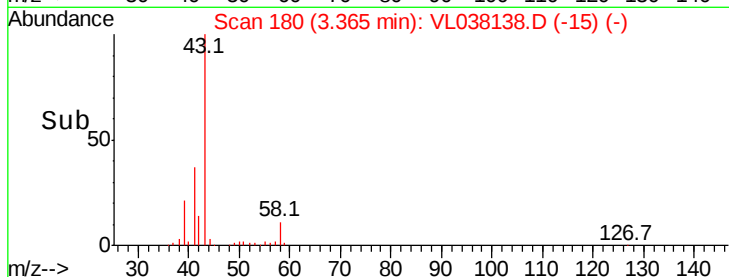
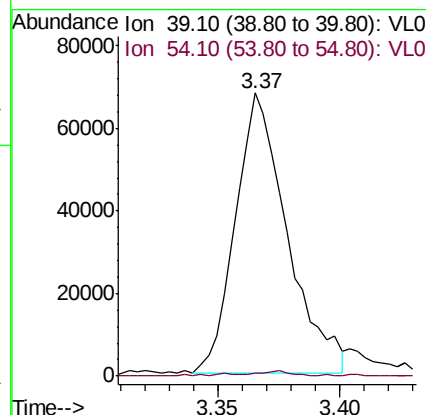
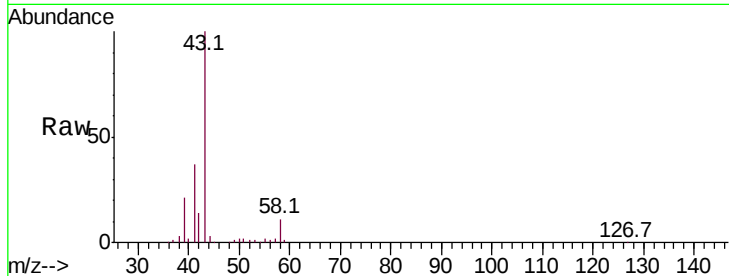
58 28.0 22.4 33.6





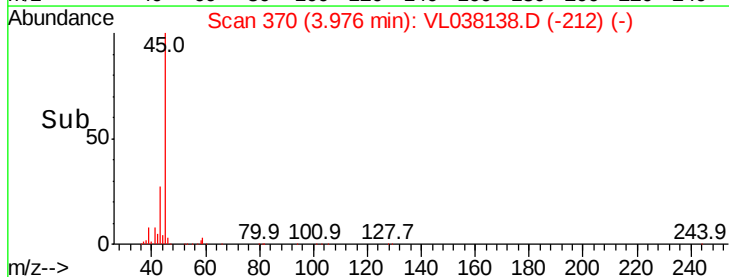
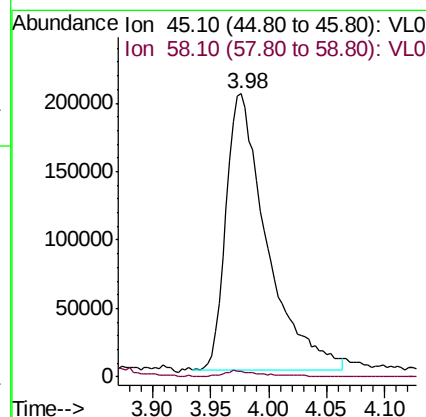
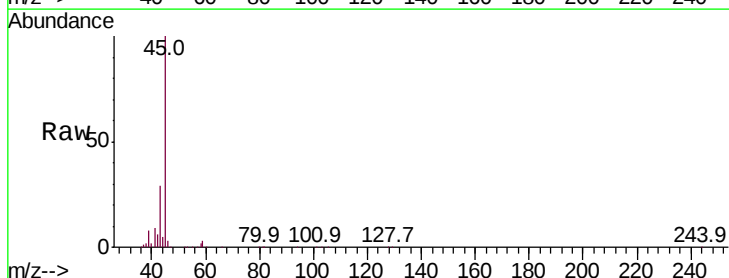
#16
 1,3-Butadiene
 Concen: 1.502 ppbv
 RT: 3.37
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 29 Nov 2021 16:55

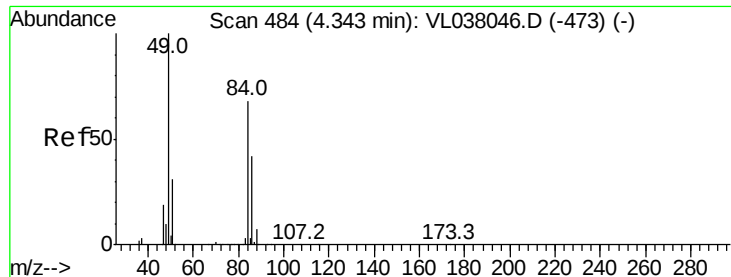
Tot Ion: 39 Resp: 100453
 Ion Ratio Lower Upper
 39 100
 54 2.2 64.4 96.6#



#19
 Isopropyl Alcohol
 Concen: 7.978 ppbv
 RT: 3.98 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: VL038138.D
 Acq: 29 Nov 2021 16:55

Tgt Ion: 45 Resp: 494203
 Ion Ratio Lower Upper
 45 100
 58 2.6 1.4 2.0#





#20

Methvlene Chloride

Concen: 1.963 ppbv

RT: 4.35 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 29 Nov 2021 16:55

Tot Ion: 84 Resp: 94258

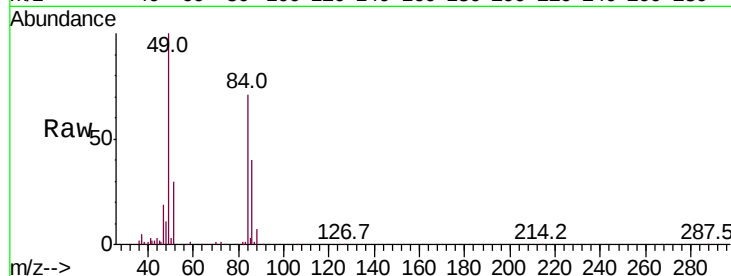
Ion Ratio Lower Upper

84 100

49 140.0 118.2 177.2

51 42.3 36.8 55.2

86 56.6 49.0 73.6

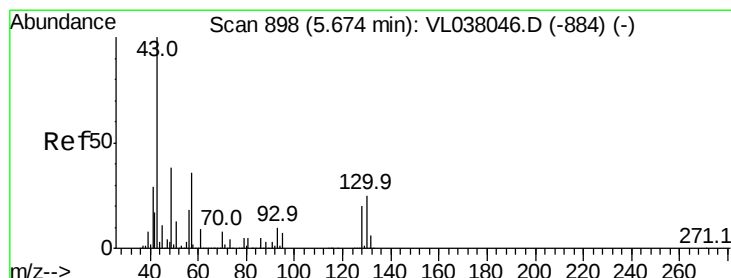
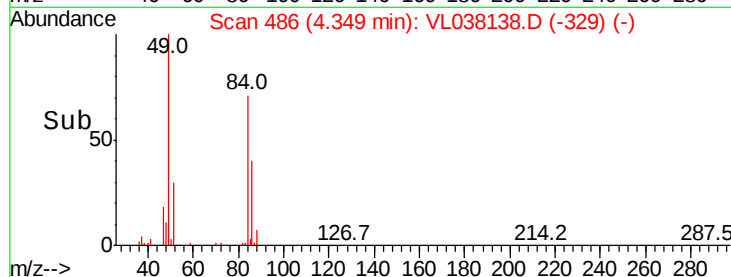
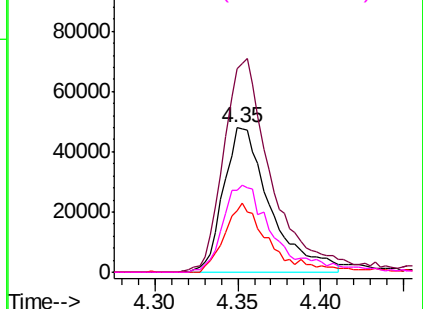


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#25

Ethyl Acetate

Concen: 0.043 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.01 min

Lab File: VL038138.D

Acq: 29 Nov 2021 16:55

Tgt Ion: 43 Resp: 12339

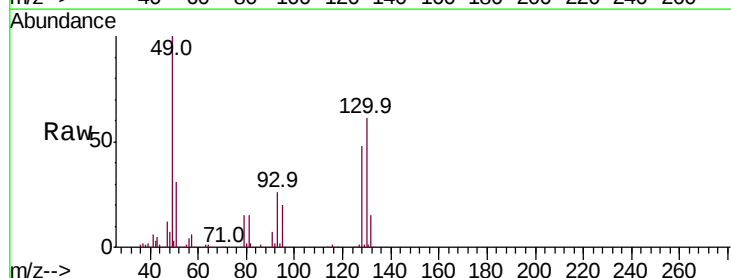
Ion Ratio Lower Upper

43 100

45 6.5 7.9 11.9#

61 1.9 7.8 11.6#

70 3.2 5.8 8.8#

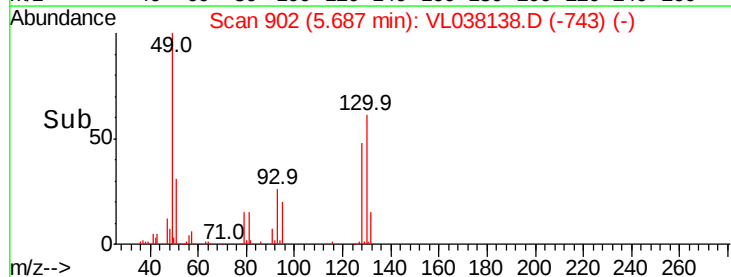
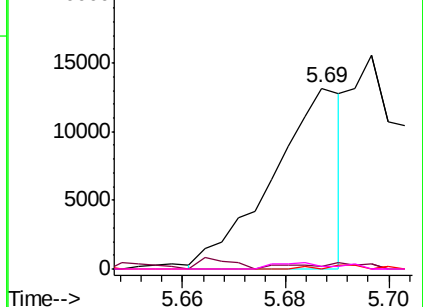


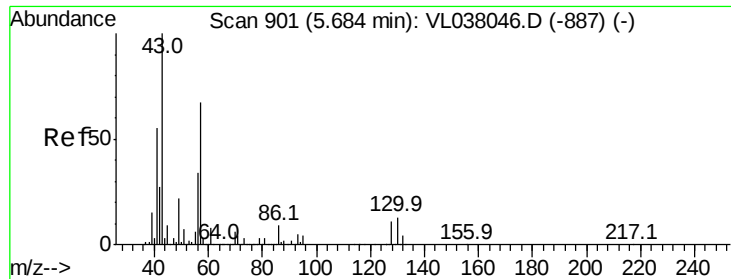
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.251 ppbv

RT: 5.69 Instrument:

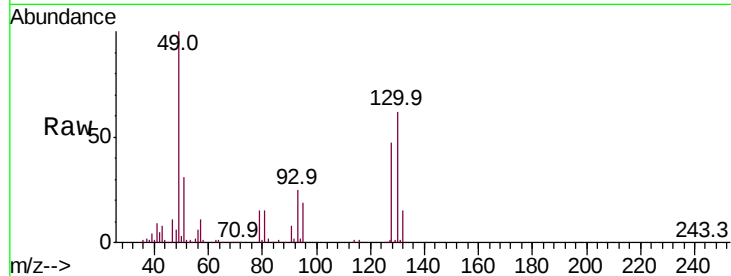
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 16:55

Tot Ion: 57 Resp: 34441

Ion	Ratio	Lower	Upper
57	100		
41	102.8	71.4	107.2
43	89.6	174.6	261.8#
56	62.8	43.2	64.8

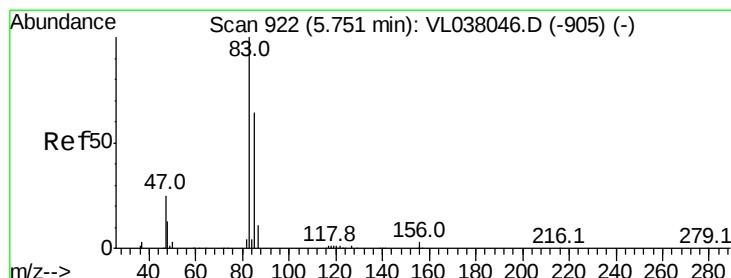
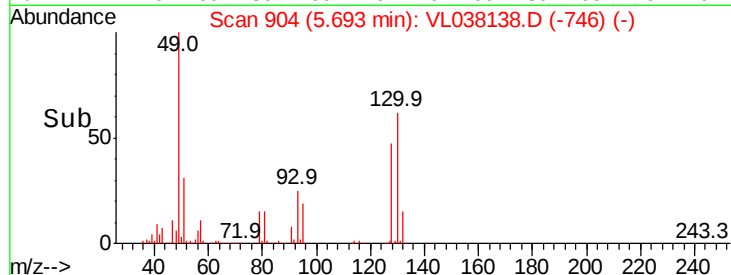
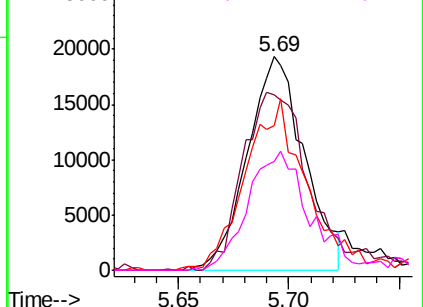


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.419 ppbv

RT: 5.76 min Scan# 924

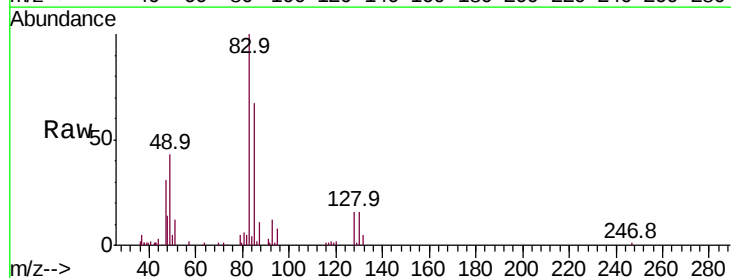
Delta R.T. 0.01 min

Lab File: VL038138.D

Acq: 29 Nov 2021 16:55

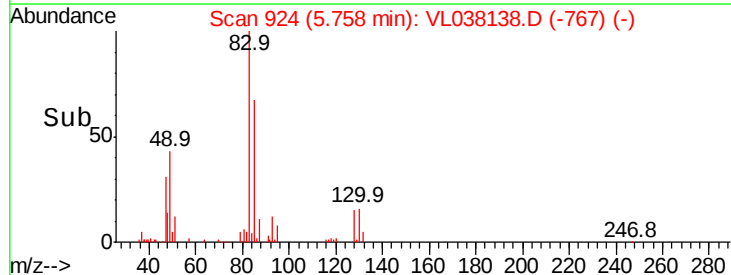
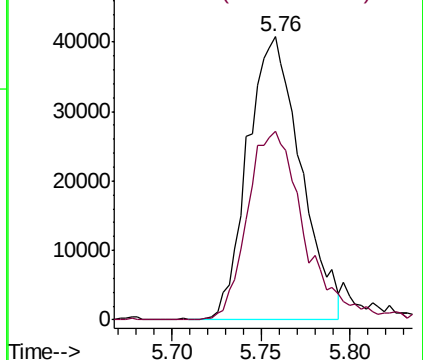
Tgt Ion: 83 Resp: 84852

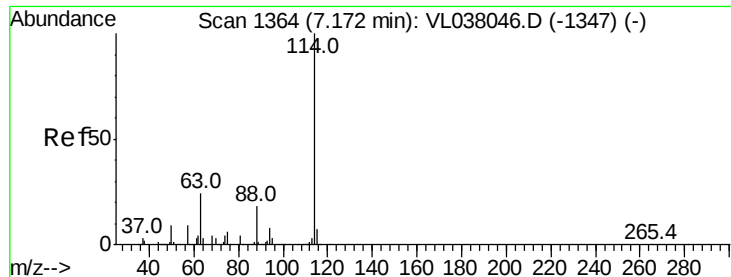
Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.0	76.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

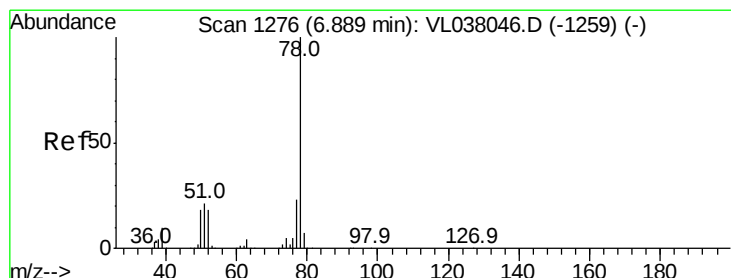
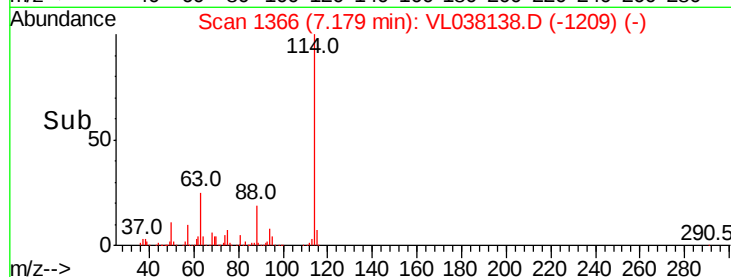
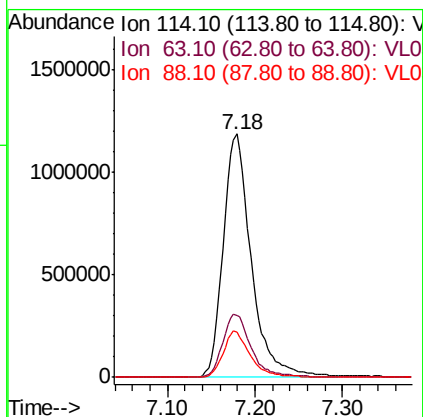
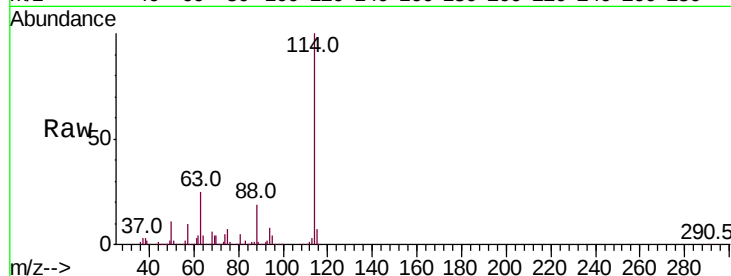




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 29 Nov 2021 16:55

Tot Ion:114 Resp: 2657778

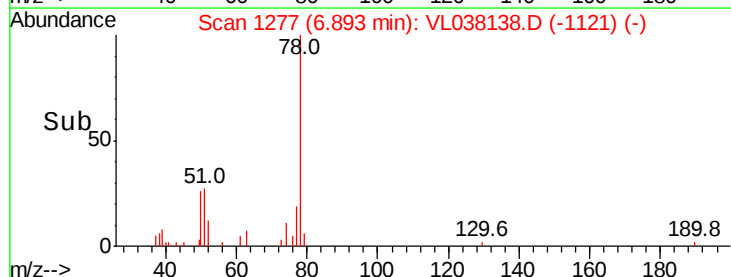
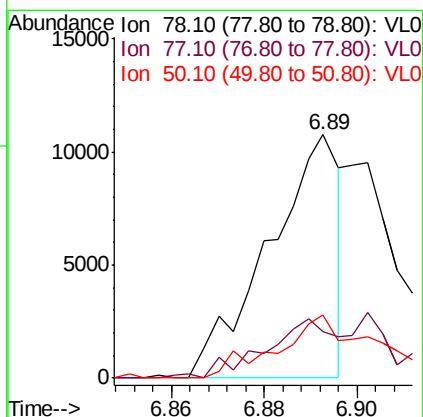
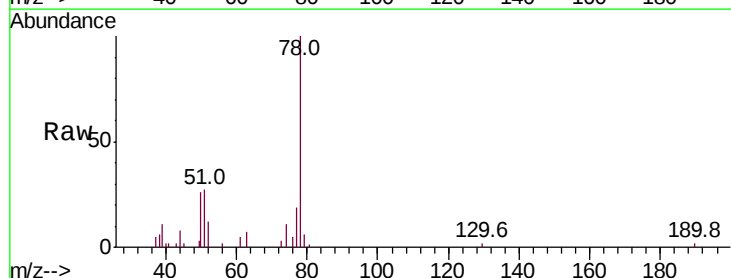
Ion	Ratio	Lower	Upper
114	100		
63	26.6	19.7	29.5
88	18.4	14.4	21.6

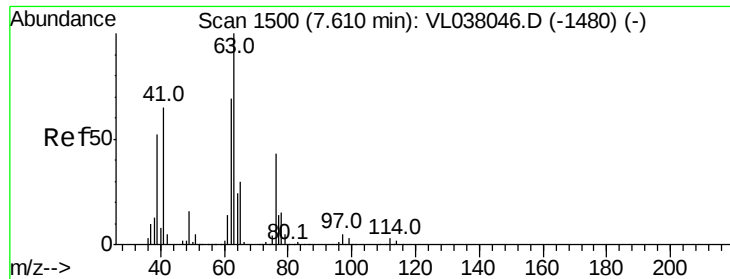


#36
 Benzene
 Concen: 0.043 ppbv
 RT: 6.89 min Scan# 1277
 Delta R.T.: 0.00 min
 Lab File: VL038138.D
 Acq: 29 Nov 2021 16:55

Tgt Ion: 78 Resp: 11491

Ion	Ratio	Lower	Upper
78	100		
77	17.8	18.2	27.4#
50	25.8	14.7	22.1#





#39

1,2-Dichloropropane

Concen: 6.747 ppbv

RT: 7.18

Delta R.T. MSVOA_L

Lab File: ClientSampled :

Acq: 29 Nov 2021 16:55

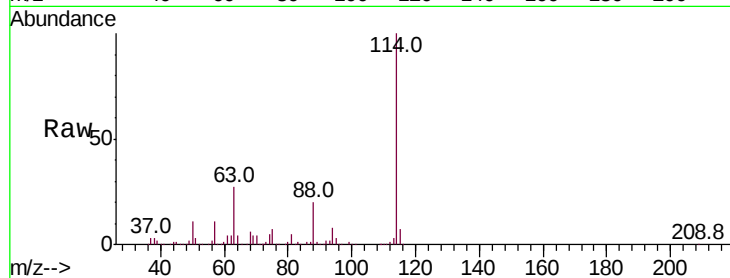
Tot Ion: 63 Resp: 686139

Ion Ratio Lower Upper

63 100

41 0.1 52.3 78.5#

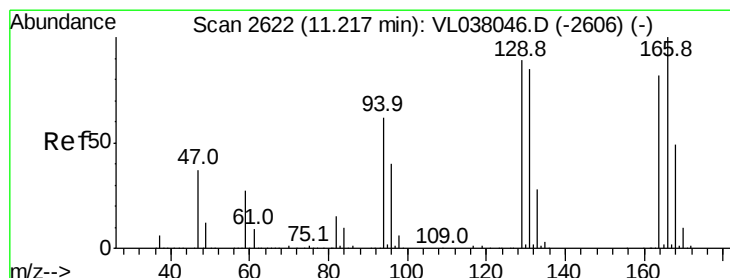
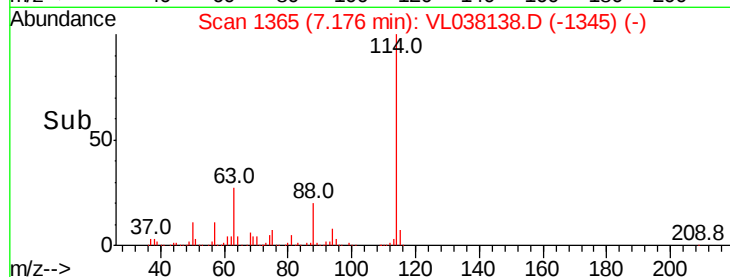
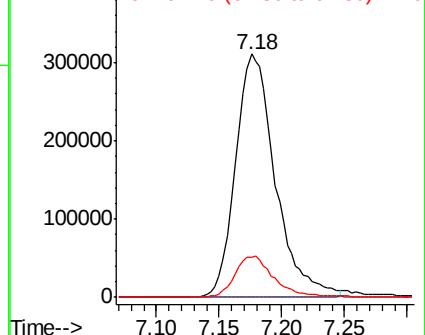
62 16.2 55.1 82.7#



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: 3.870 ppbv

RT: 11.22 min Scan# 2623

Delta R.T. 0.00 min

Lab File: VL038138.D

Acq: 29 Nov 2021 16:55

Tgt Ion:164 Resp: 379648

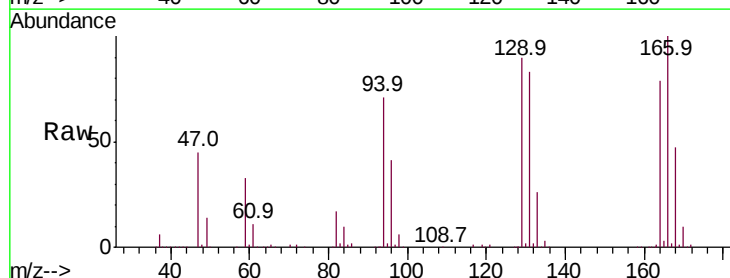
Ion Ratio Lower Upper

164 100

166 127.3 97.2 145.8

129 113.9 86.9 130.3

131 105.5 82.8 124.2

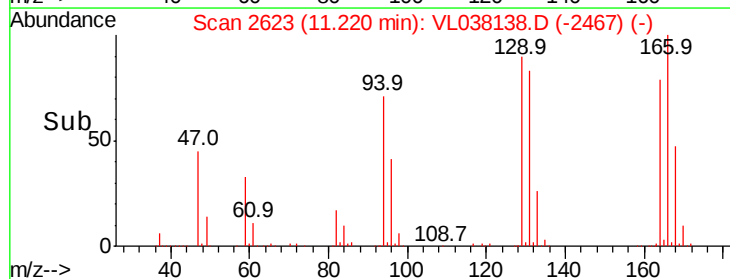
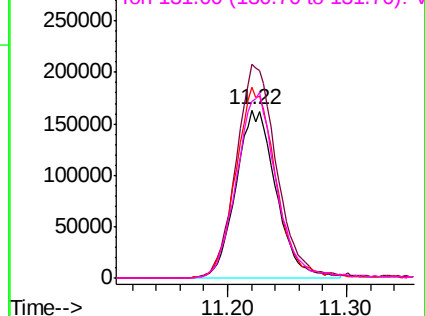


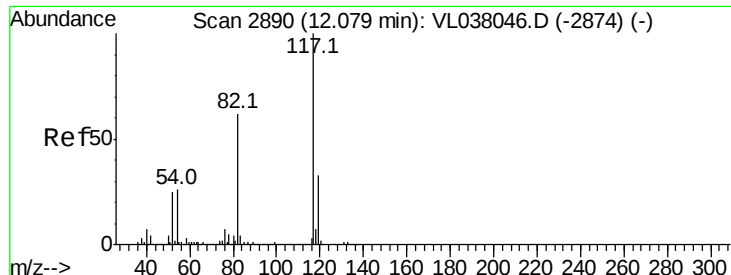
Abundance Ion 163.90 (163.60 to 164.60): V

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

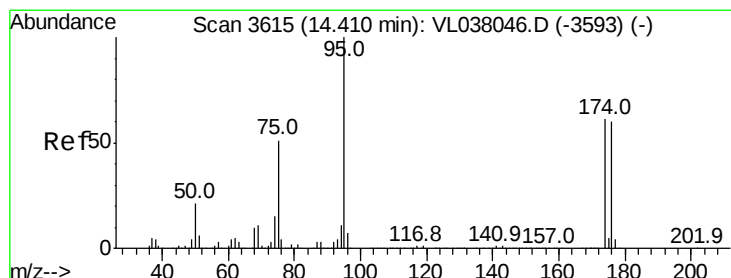
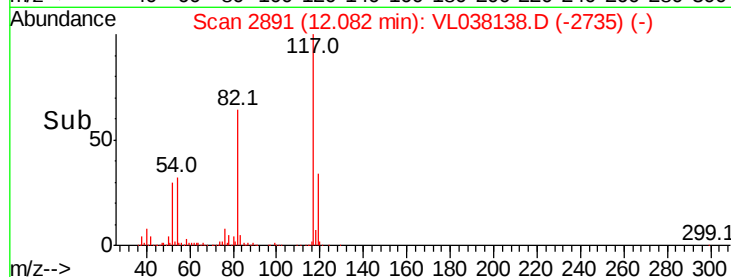
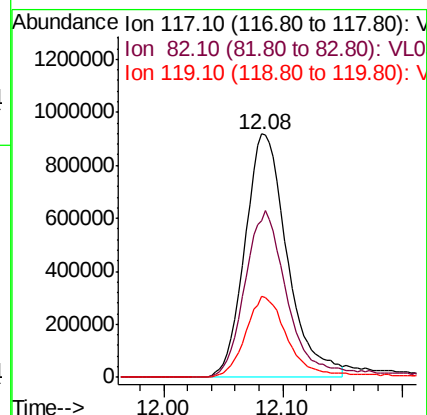
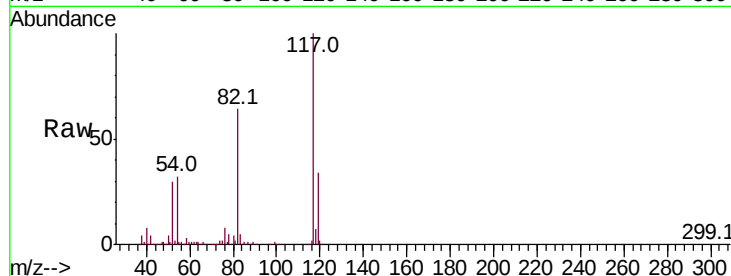




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.: 0.00 min
Lab File: ClientSampleId :
Acq: 29 Nov 2021 16:55

Tot Ion: 117 Resp: 2263531

Ion	Ratio	Lower	Upper
117	100		
82	72.5	52.8	79.2
119	35.1	26.8	40.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.961 ppbv
RT: 14.41 min Scan# 3616
Delta R.T.: 0.00 min
Lab File: VL038138.D
Acq: 29 Nov 2021 16:55

Tgt Ion: 95 Resp: 1789635

Ion	Ratio	Lower	Upper
95	100		
174	62.9	53.1	79.7
175	4.1	4.0	6.0

