

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032122\
 Data File : VL038658.D
 Acq On : 21 Mar 2022 20:11
 Operator : SY/AP
 Sample : N1645-15 0.03 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT1-2022DL

Quant Time: Mar 22 03:49:30 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	5.66	49	974935	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2491027	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2155475	10.00	ppbv	0.00

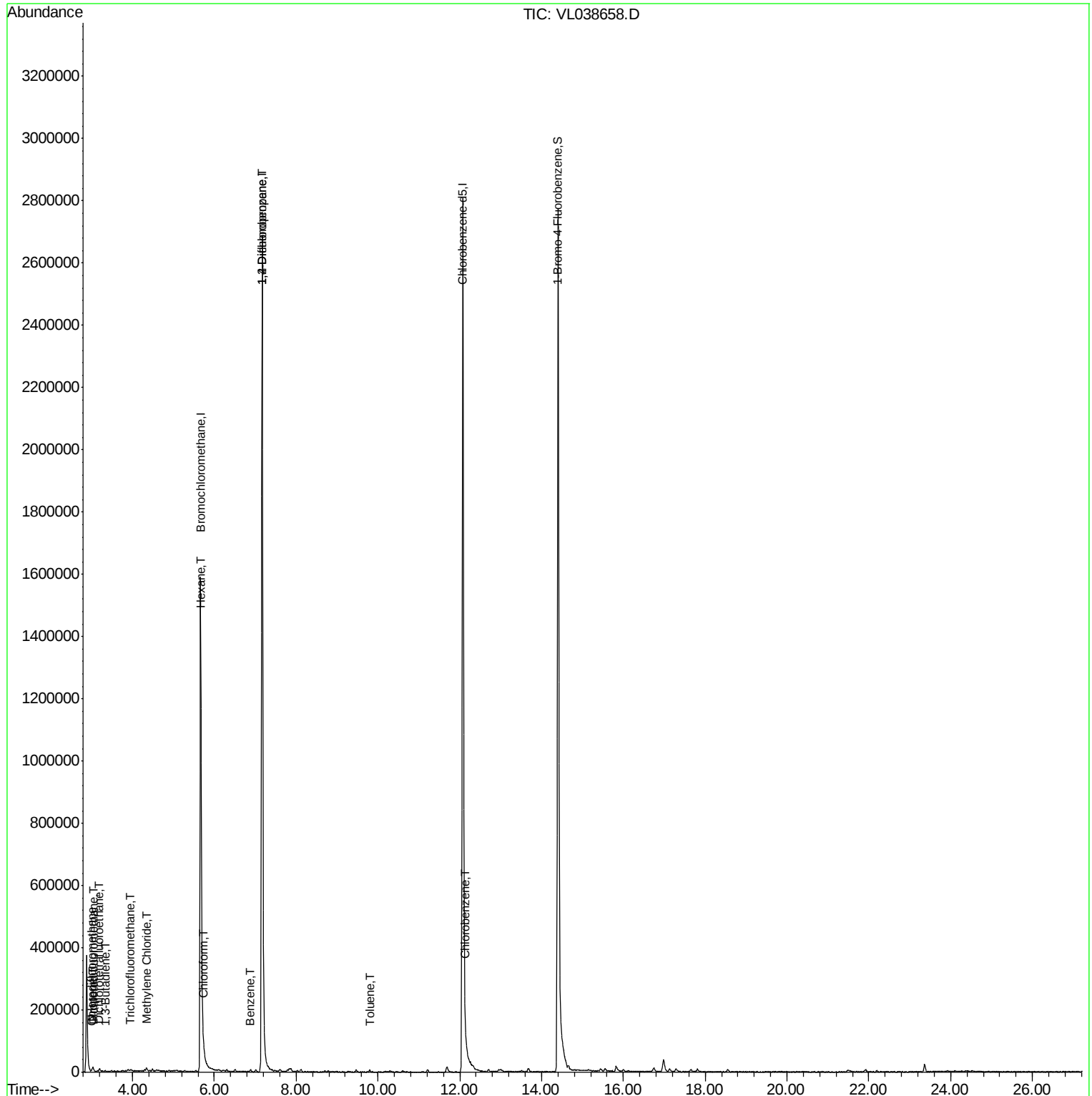
System Monitoring Compounds

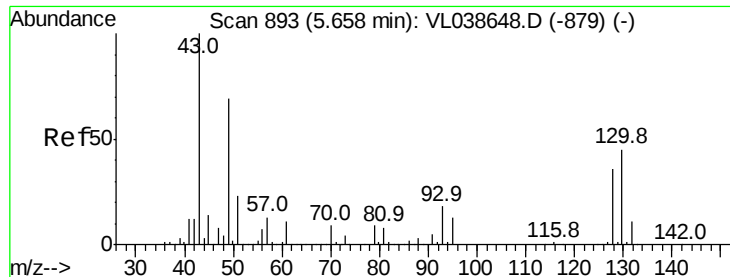
68) 1-Bromo-4-Fluorobenzene	14.40	95	1590111	9.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	4416	0.03	ppbv	90
3) Chlorodifluoromethane	2.99	51	4366	0.04	ppbv #	90
8) Dichlorotetrafluoroethane	3.19	85	4054	0.03	ppbv #	83
9) Propene	3.02	41	3131	0.06	ppbv #	52
11) Trichlorofluoromethane	3.95	101	2523	0.02	ppbv #	76
16) 1,3-Butadiene	3.33	39	1416	0.03	ppbv	98
20) Methylene Chloride	4.34	84	1630	0.05	ppbv #	88
26) Hexane	5.68	57	2024	0.02	ppbv #	1
29) Chloroform	5.74	83	6063	0.04	ppbv	86
36) Benzene	6.89	78	4577	0.02	ppbv #	86
39) 1,2-Dichloropropane	7.17	63	579794	7.71	ppbv #	28
53) Toluene	9.80	91	5064	0.02	ppbv	93
57) Chlorobenzene	12.13	112	3937	0.03	ppbv #	57

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

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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:11 MDL-AIR-03-OT1-2022DL

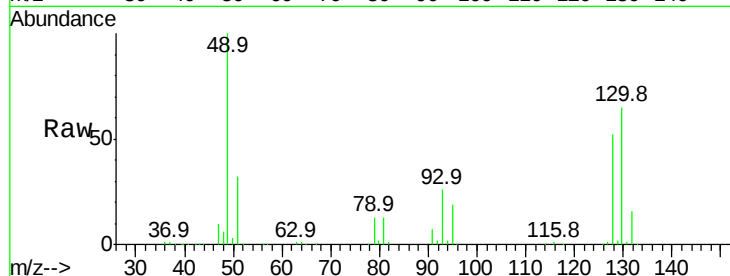
Tgt Ion: 49 Resp: 974935

Ion Ratio Lower Upper

49 100

128 52.4 26.2 78.6

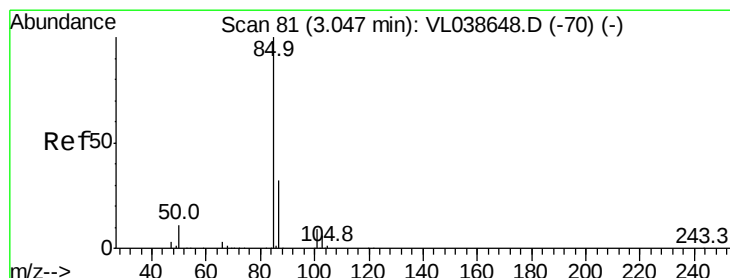
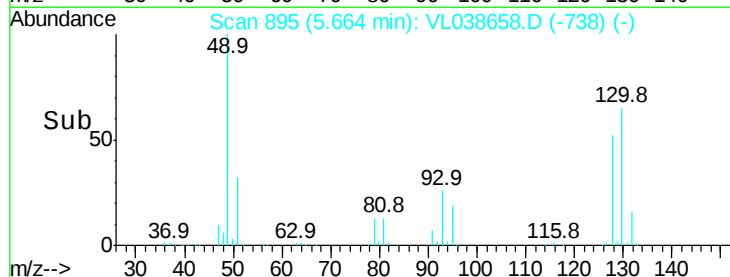
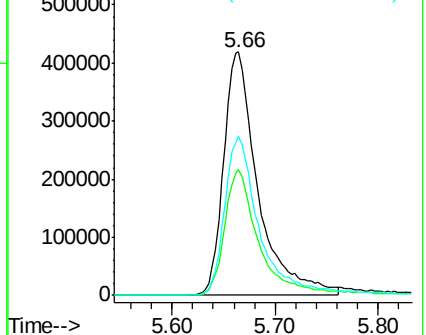
130 67.4 33.7 101.1



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: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038658.D

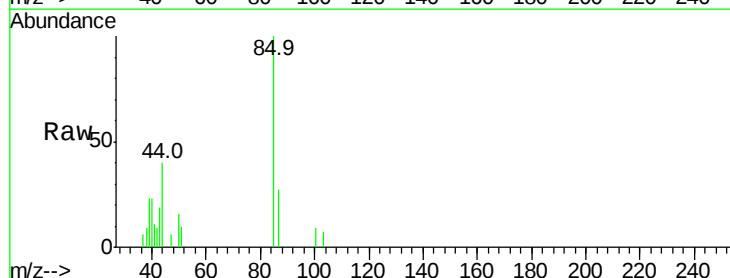
Acq: 21 Mar 2022 20:11

Tgt Ion: 85 Resp: 4416

Ion Ratio Lower Upper

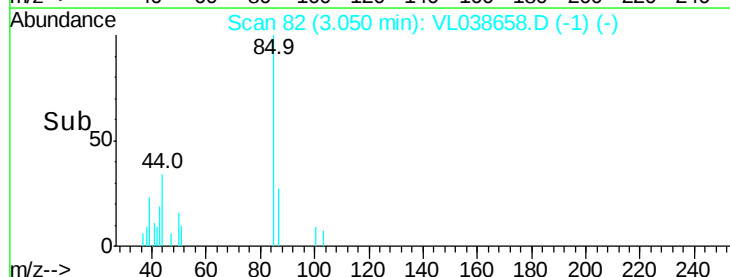
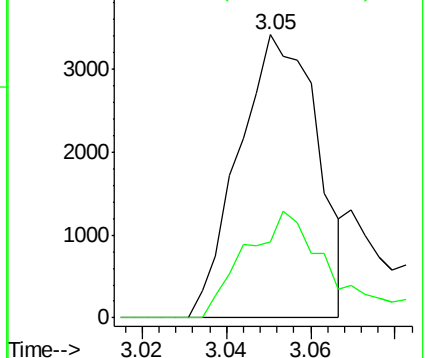
85 100

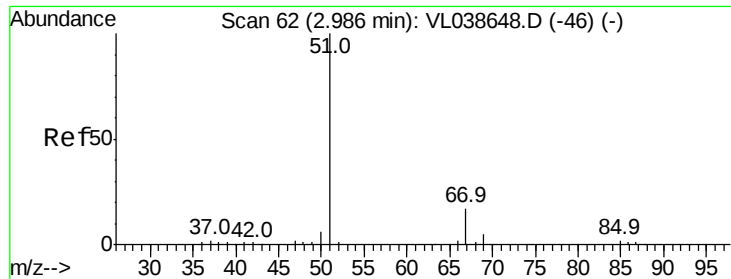
87 26.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

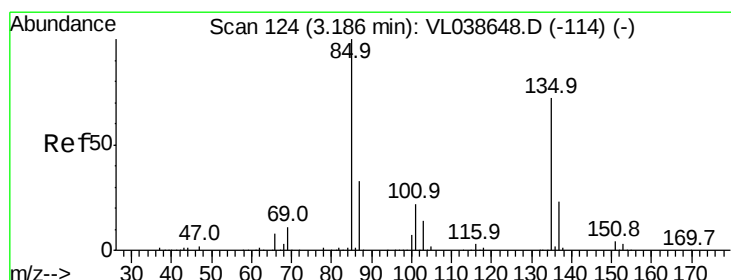
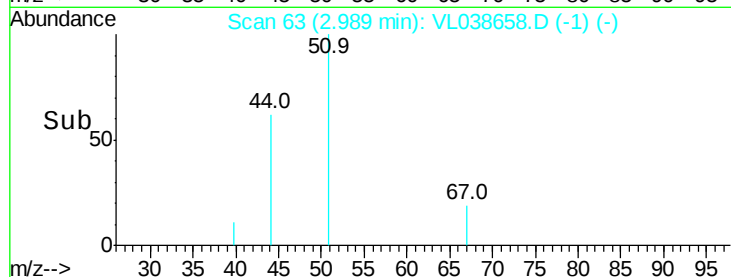
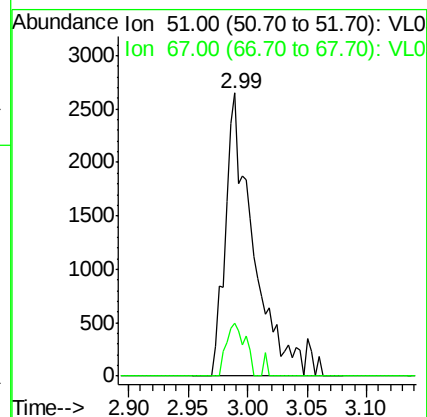
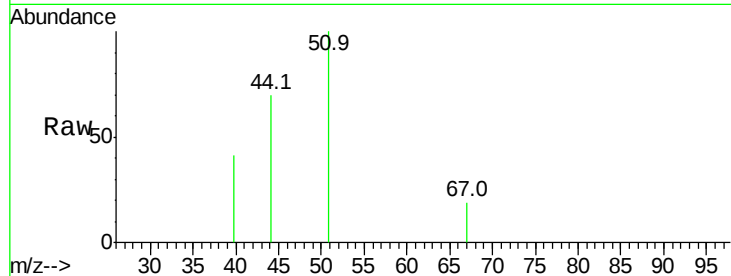
Ion 87.00 (86.70 to 87.70): VL0





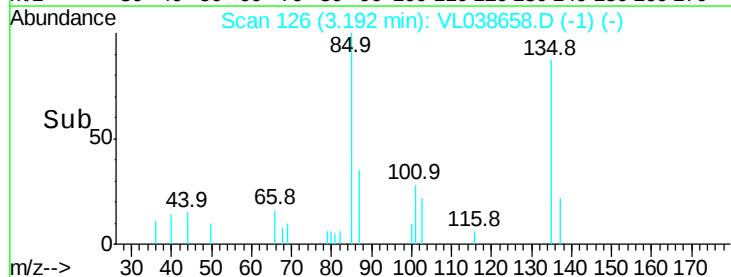
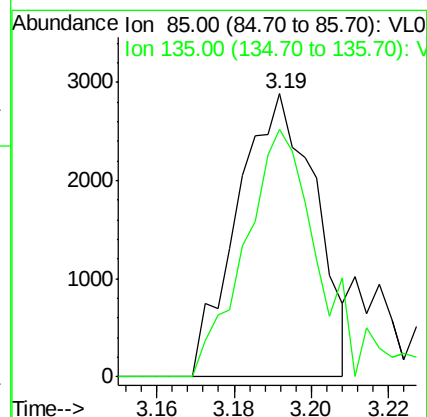
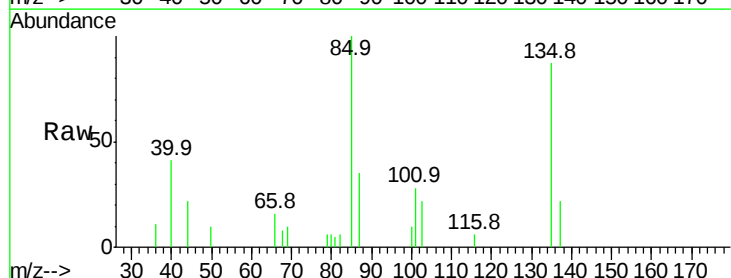
#3
Chlorodifluoromethane
Concen: 0.04 ppbv
RT: 2.99
Instrument: MSVOA.L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 21 Mar 2022 20:11

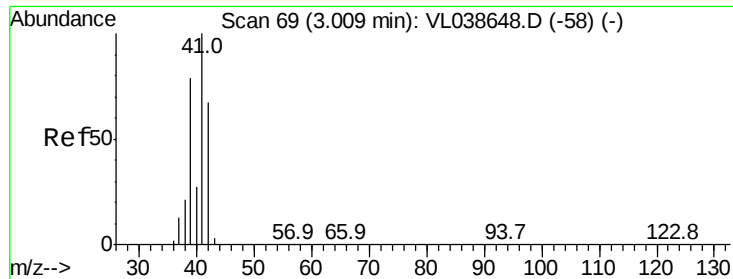
Tgt Ion: 51 Resp: 4366
Ion Ratio Lower Upper
51 100
67 13.4 14.1 21.1#



#8
Dichlorotetrafluoroethane
Concen: 0.03 ppbv
RT: 3.19 min Scan# 126
Delta R.T.: 0.01 min
Lab File: VL038658.D
Acq: 21 Mar 2022 20:11

Tgt Ion: 85 Resp: 4054
Ion Ratio Lower Upper
85 100
135 86.7 57.8 86.6#





#9

Propene

Concen: 0.06 ppbv

RT: 3.02 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: MDL-AIR-03-QT1-2022DL

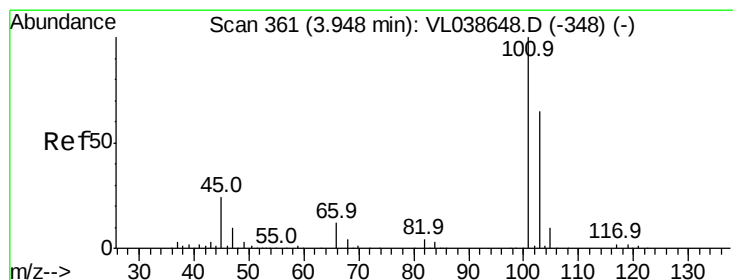
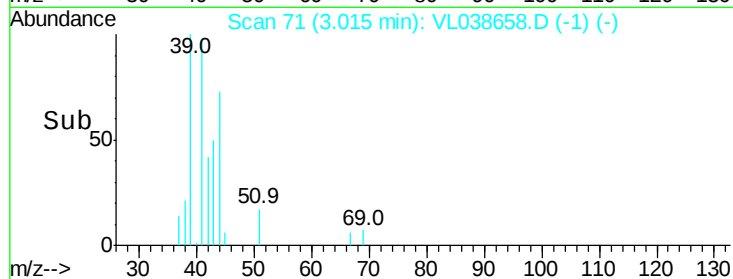
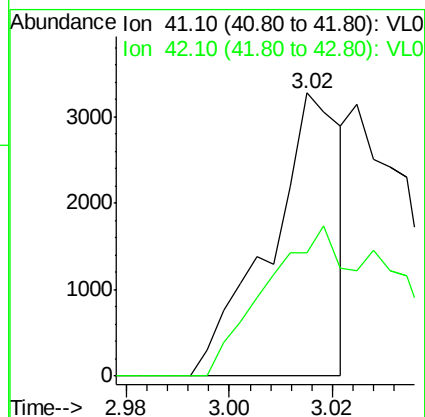
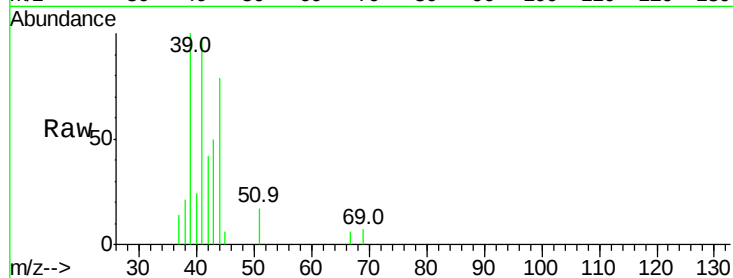
Acq: 21 Mar 2022 20:11

Tgt Ion: 41 Resp: 3131

Ion Ratio Lower Upper

41 100

42 110.1 56.2 84.4#



#11

Trichlorofluoromethane

Concen: 0.02 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL038658.D

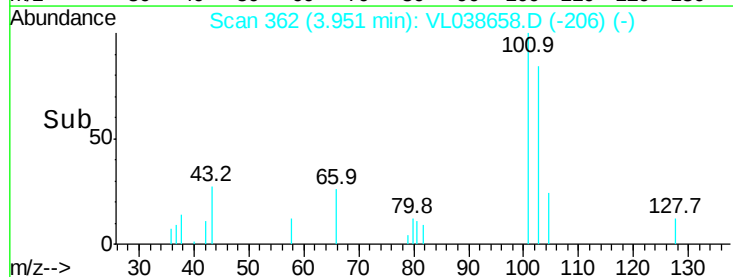
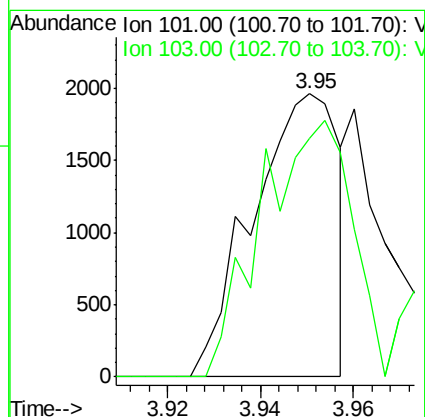
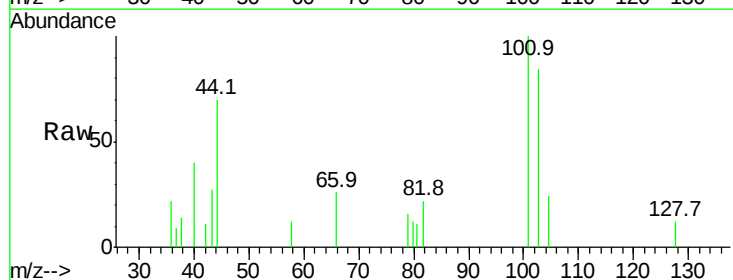
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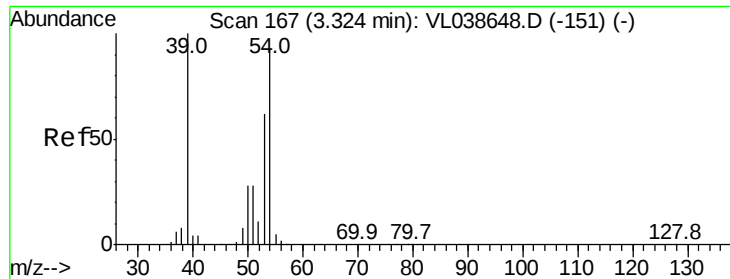
Tgt Ion:101 Resp: 2523

Ion Ratio Lower Upper

101 100

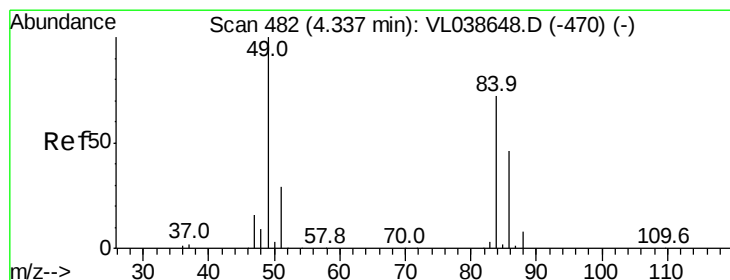
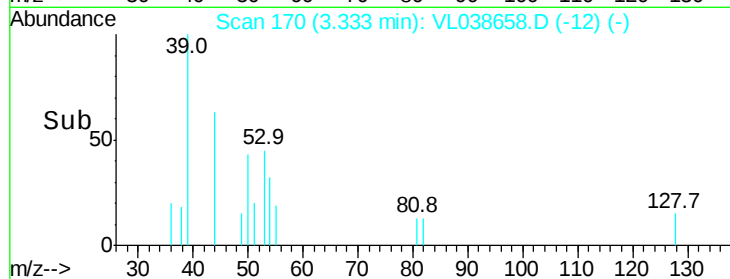
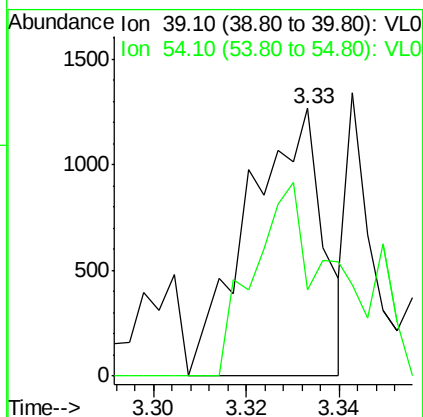
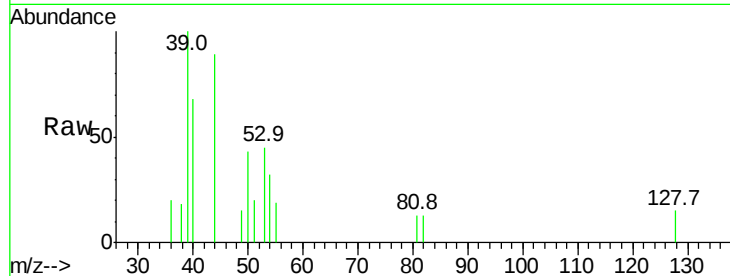
103 84.2 51.9 77.9#





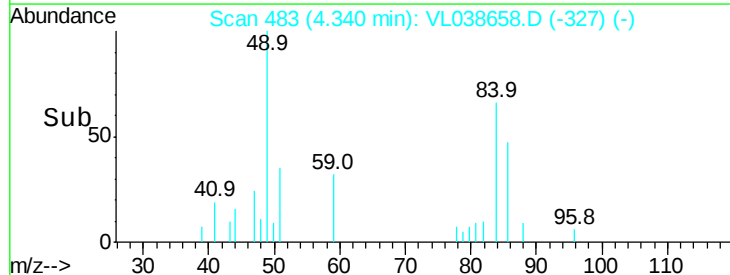
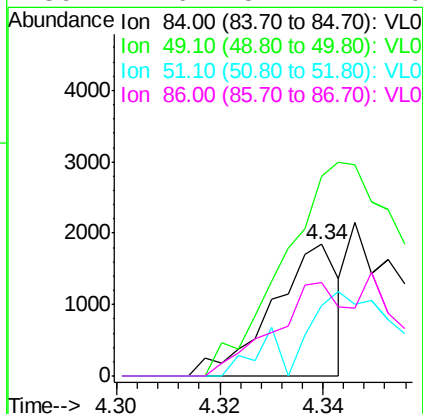
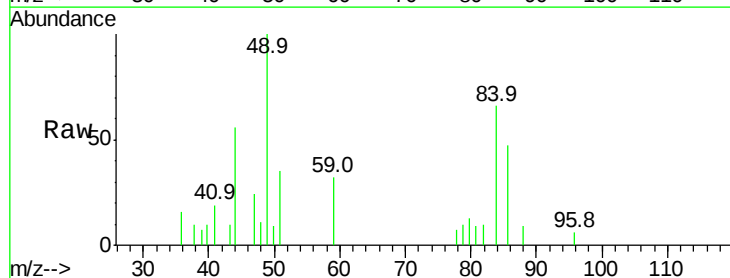
#16
1,3-Butadiene
Concen: 0.03 ppbv
RT: 3.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 21 Mar 2022 20:11

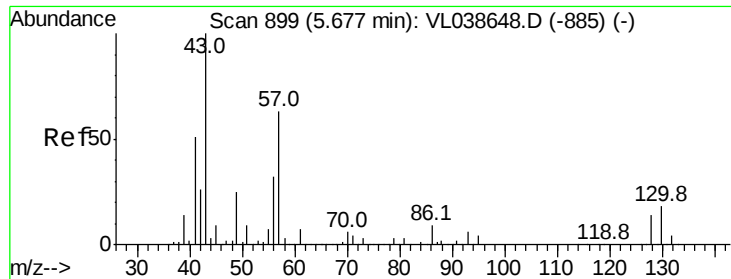
Tgt Ion: 39 Resp: 1416
Ion Ratio Lower Upper
39 100
54 88.3 69.1 103.7



#20
Methylene Chloride
Concen: 0.05 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL038658.D
Acq: 21 Mar 2022 20:11

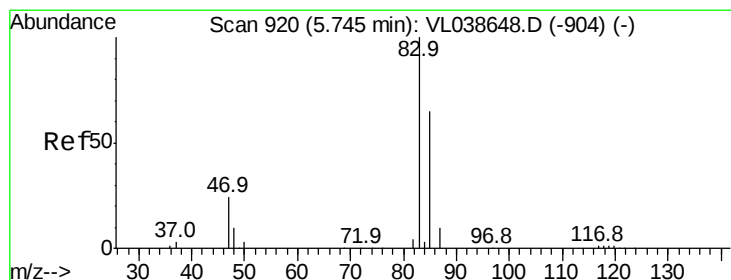
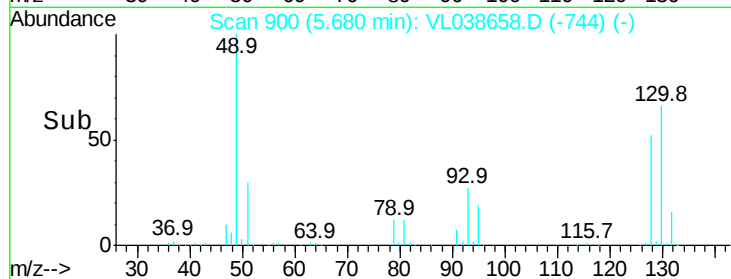
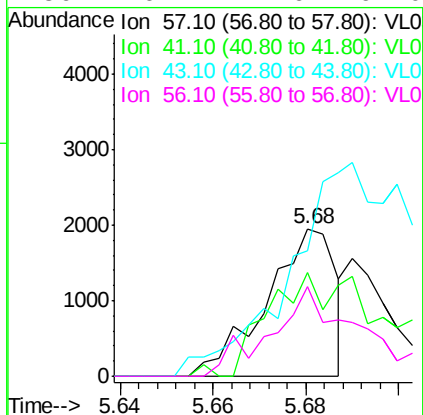
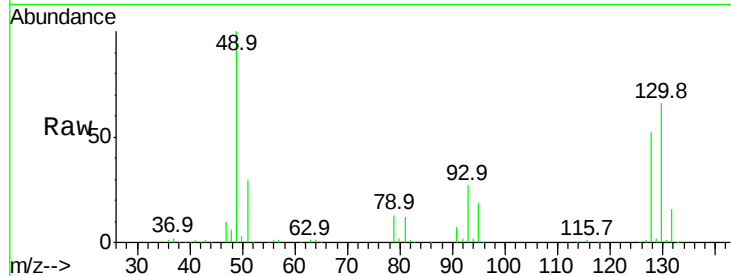
Tgt Ion: 84 Resp: 1630
Ion Ratio Lower Upper
84 100
49 152.3 111.2 166.8
51 53.3 32.8 49.2#
86 71.6 51.4 77.0





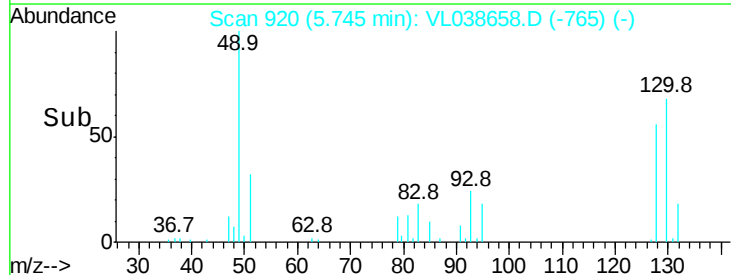
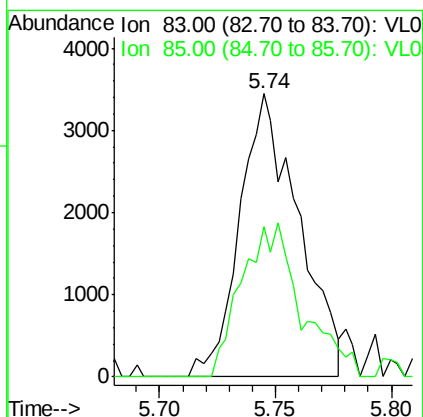
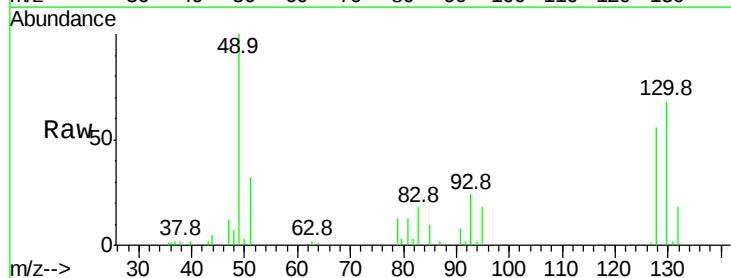
#26
Hexane
Concen: 0.02 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
ClientSampleId:
Lab File: MDL-AIR-03-OT1-2022DL
Acq: 21 Mar 2022 20:11

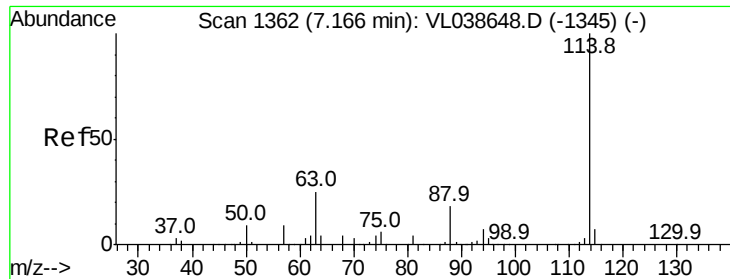
Tgt Ion: 57 Resp: 2024
Ion Ratio Lower Upper
57 100
41 127.9 67.0 100.4#
43 0.0 184.2 276.2#
56 76.7 42.6 64.0#



#29
Chloroform
Concen: 0.04 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.00 min
Lab File: VL038658.D
Acq: 21 Mar 2022 20:11

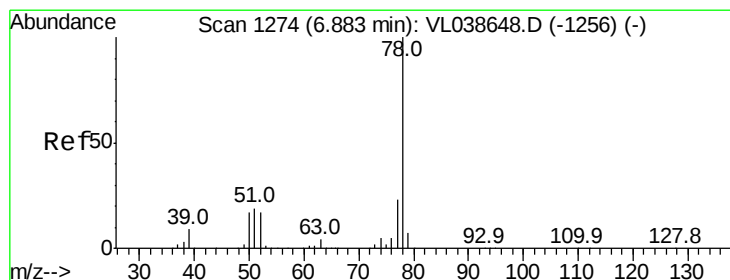
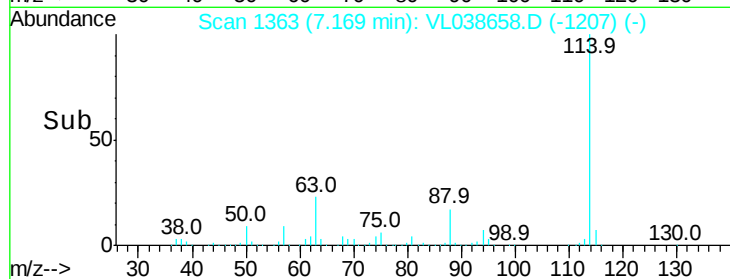
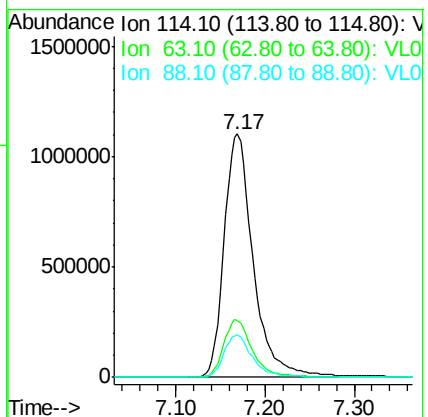
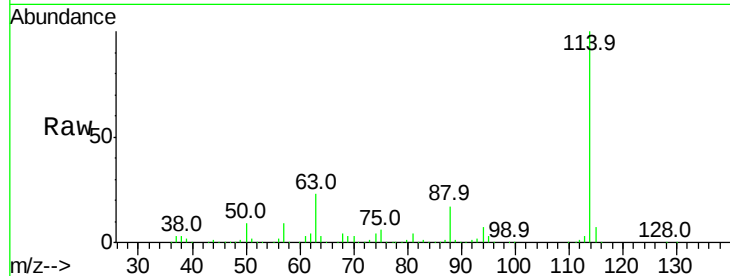
Tgt Ion: 83 Resp: 6063
Ion Ratio Lower Upper
83 100
85 53.3 51.7 77.5





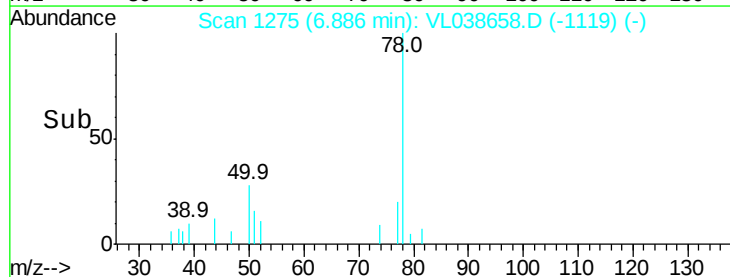
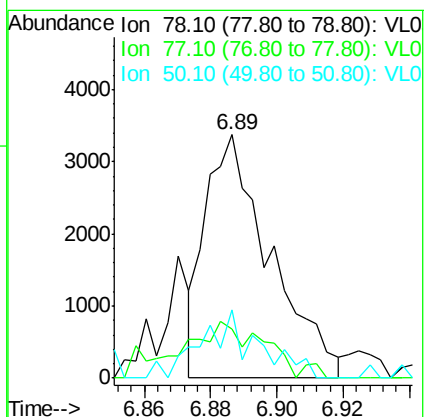
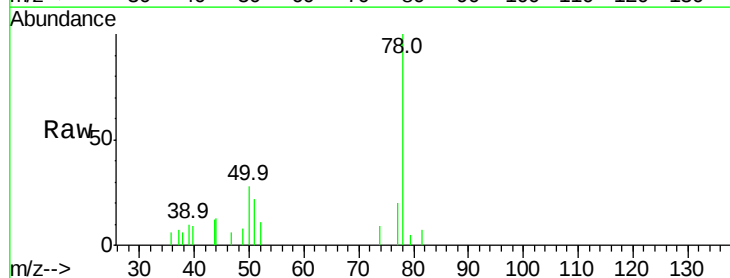
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 MDL-AIR-03-OT1-2022DL
 Acq: 21 Mar 2022 20:11

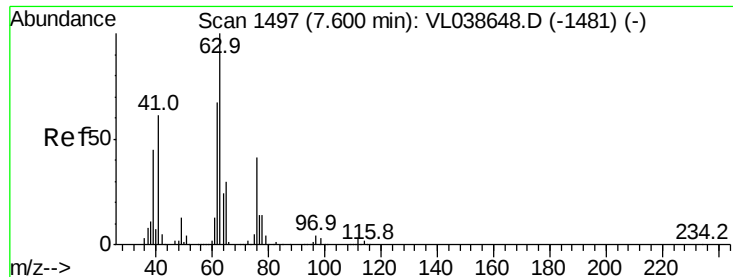
Tgt Ion: 114 Resp: 2491027
 Ion Ratio Lower Upper
 114 100
 63 23.8 19.4 29.0
 88 17.3 13.9 20.9



#36
 Benzene
 Concen: 0.02 ppbv
 RT: 6.89 min Scan# 1275
 Delta R.T. 0.00 min
 Lab File: VL038658.D
 Acq: 21 Mar 2022 20:11

Tgt Ion: 78 Resp: 4577
 Ion Ratio Lower Upper
 78 100
 77 22.2 18.1 27.1
 50 30.9 13.6 20.4#





#39

1,2-Dichloropropane

Concen: 7.71 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Mar 2022 20:11 MDL-AIR-03-QT1-2022DL

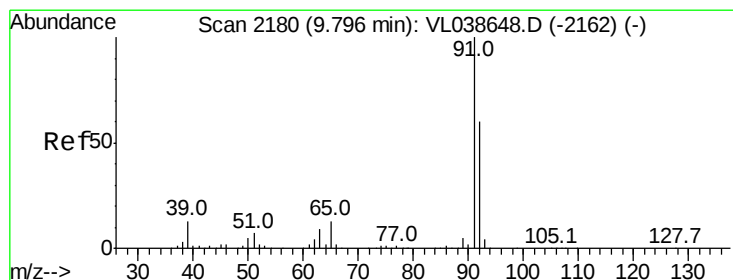
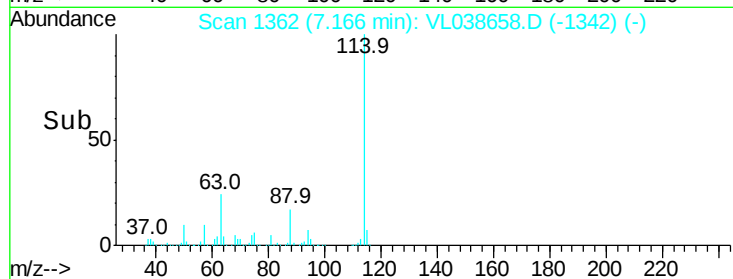
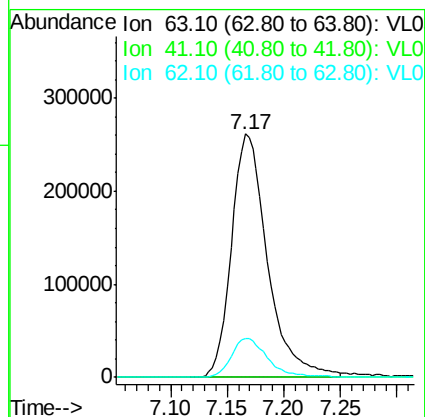
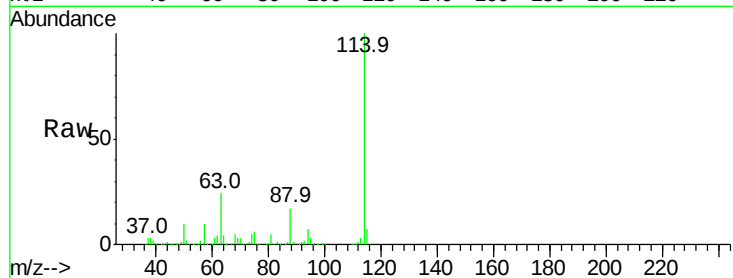
Tgt Ion: 63 Resp: 579794

Ion Ratio Lower Upper

63 100

41 0.1 49.0 73.6#

62 15.7 53.9 80.9#



#53

Toluene

Concen: 0.02 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL038658.D

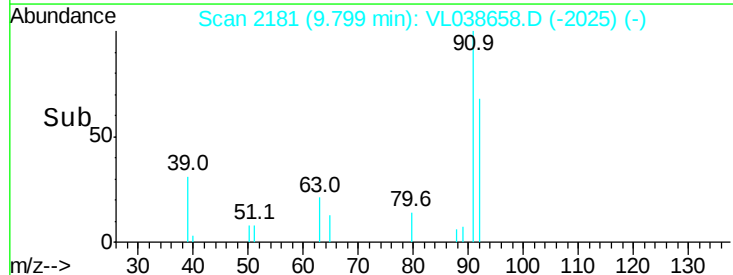
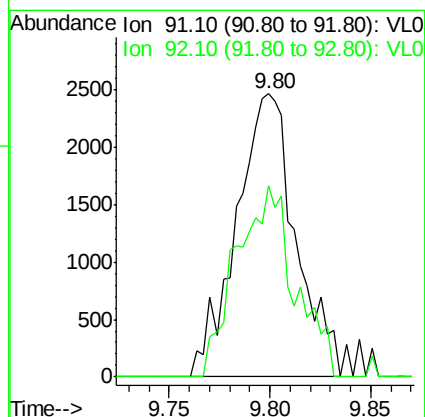
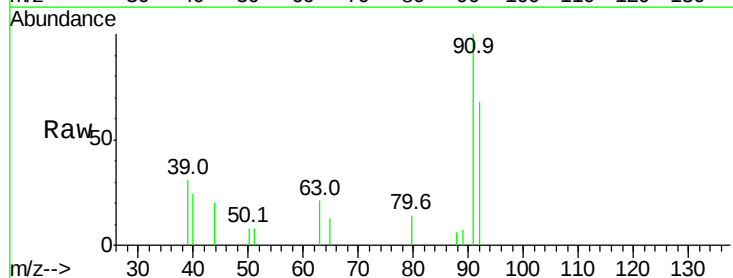
Acq: 21 Mar 2022 20:11

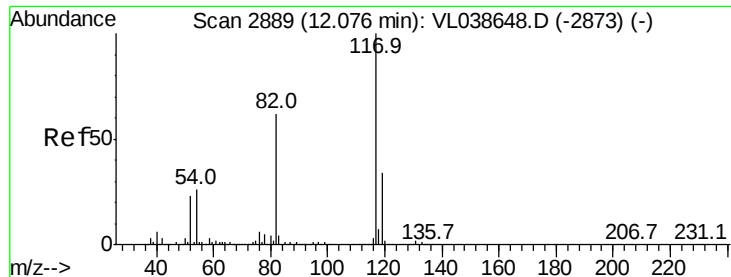
Tgt Ion: 91 Resp: 5064

Ion Ratio Lower Upper

91 100

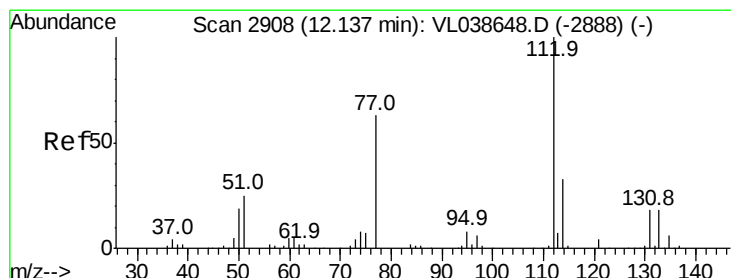
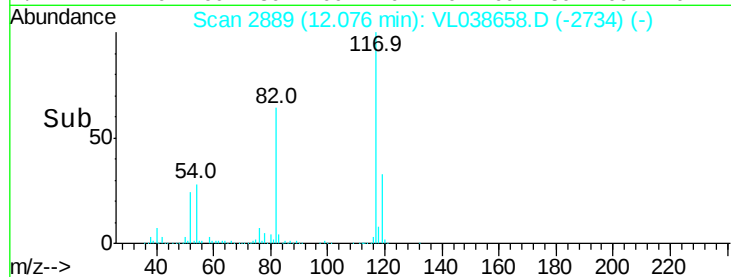
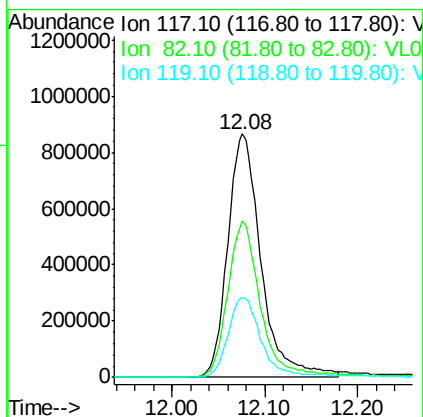
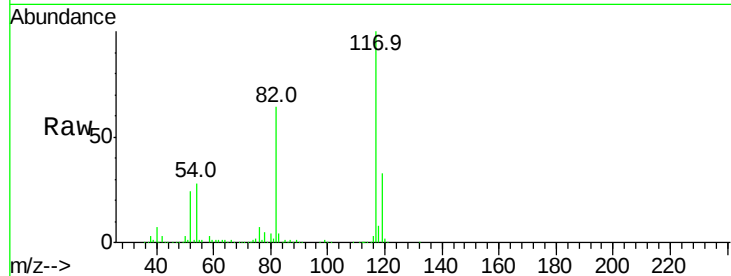
92 66.4 48.7 73.1





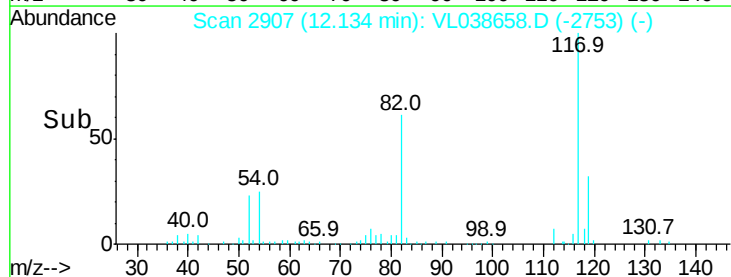
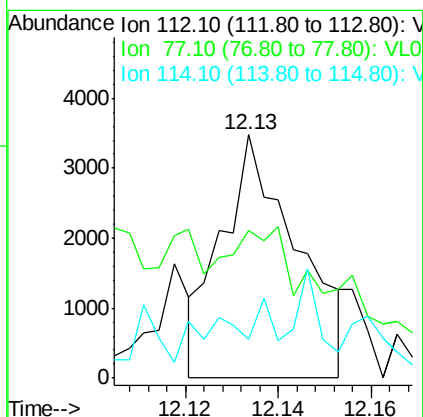
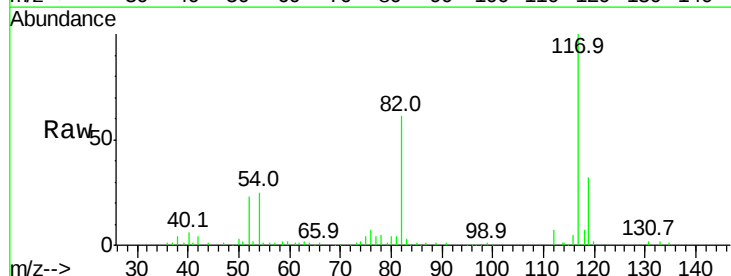
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 21 Mar 2022 20:11

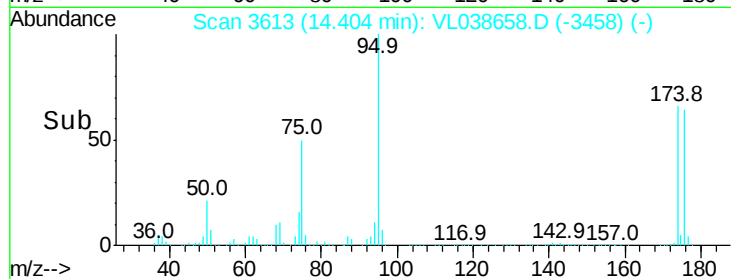
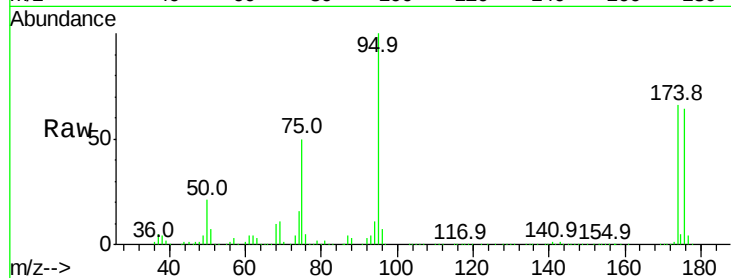
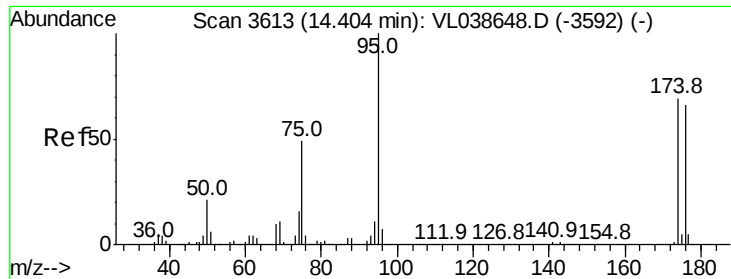
Tgt Ion:117 Resp: 2155475
Ion Ratio Lower Upper
117 100
82 64.8 51.6 77.4
119 34.5 26.9 40.3



#57
Chlorobenzene
Concen: 0.03 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL038658.D
Acq: 21 Mar 2022 20:11

Tgt Ion:112 Resp: 3937
Ion Ratio Lower Upper
112 100
77 36.7 51.0 76.6#
114 0.0 29.8 36.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.62 ppbv

RT: 14.40

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Mar 2022 20:11

Tgt Ion: 95 Resp: 1590111

Ion Ratio Lower Upper

95 100

174 72.3 56.1 84.1

175 5.2 4.2 6.2

