

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030222\
 Data File : VL038490.D
 Acq On : 2 Mar 2022 20:24
 Operator : SY/AP
 Sample : N1724-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL

Quant Time: Mar 02 22:40:31 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	920859	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2445213	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	2211801	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1990045	10.87	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.70%

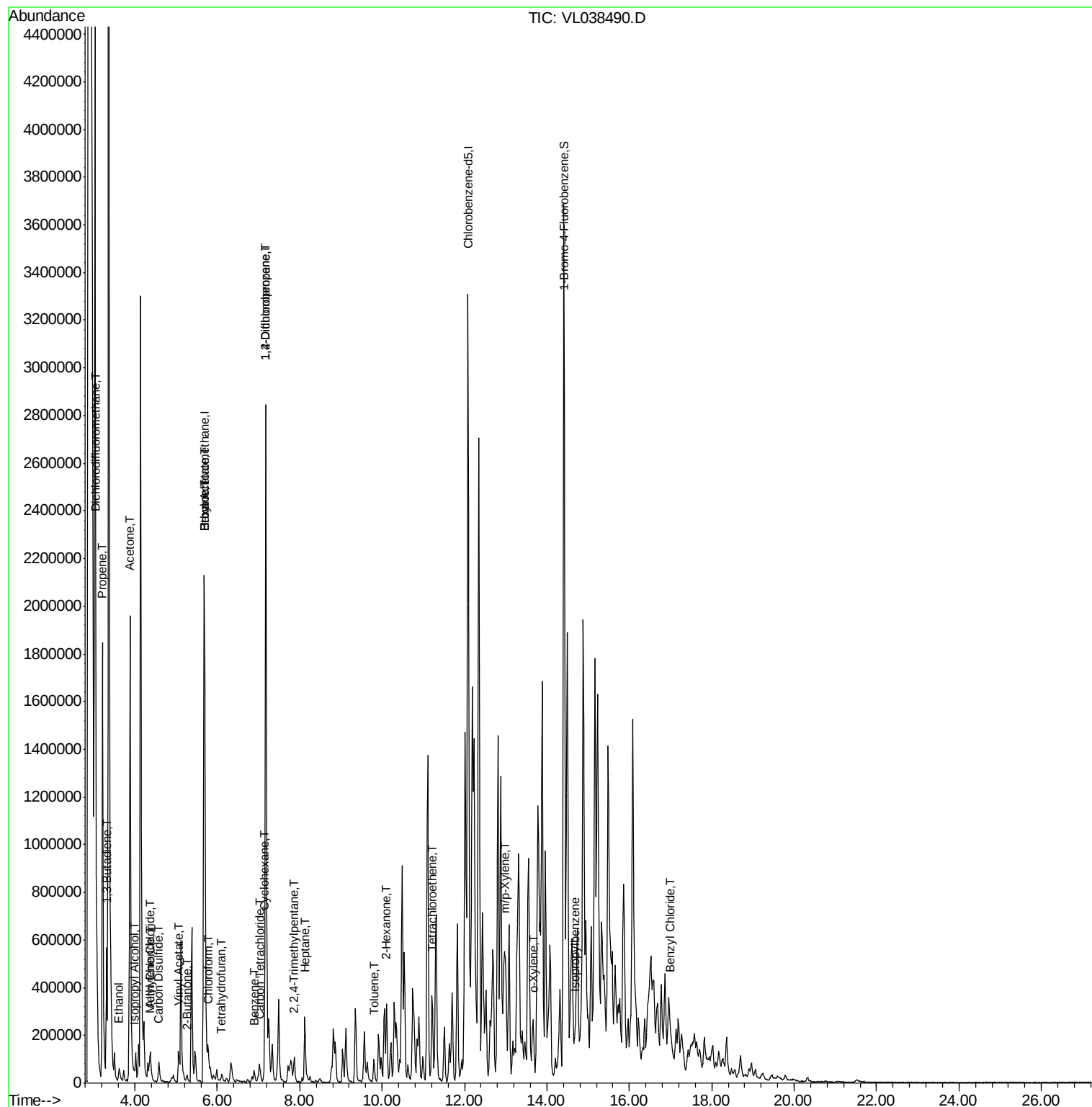
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	7595	0.05	ppbv #	82
9) Propene	3.21	41	681986	12.70	ppbv	96
10) Heptane	8.12	43	129207	0.99	ppbv	99
13) Ethanol	3.61	45	77580	14.48	ppbv	99
15) Acetone	3.88	43	1116139	14.25	ppbv #	68
16) 1,3-Butadiene	3.31	39	189917	3.63	ppbv #	42
19) Isopropyl Alcohol	3.99	45	31959	0.70	ppbv #	93
20) Methylene Chloride	4.35	84	29696	0.77	ppbv	91
21) Allyl Chloride	4.37	41	14284	0.22	ppbv #	1
23) Vinyl Acetate	5.07	43	46361	0.45	ppbv #	1
25) Ethyl Acetate	5.69	43	447864	2.13	ppbv #	78
26) Hexane	5.69	57	635463	6.67	ppbv #	43
27) Carbon Disulfide	4.56	76	8367	0.08	ppbv #	31
29) Chloroform	5.76	83	11854	0.08	ppbv	89
30) Cyclohexane	7.14	84	5454	0.07	ppbv #	1
34) 2-Butanone	5.26	43	29234	0.38	ppbv #	73
35) Carbon Tetrachloride	7.02	117	42548	0.25	ppbv #	89
36) Benzene	6.89	78	18041	0.08	ppbv #	90
39) 1,2-Dichloropropane	7.17	63	598466	6.98	ppbv #	24
41) Tetrahydrofuran	6.08	42	2645	0.05	ppbv #	1
44) 2,2,4-Trimethylpentane	7.87	57	39569	0.11	ppbv #	1
51) 2-Hexanone	10.11	43	207855	3.41	ppbv #	31
52) Tetrachloroethene	11.22	164	33000	0.46	ppbv	95
53) Toluene	9.81	91	17279	0.07	ppbv #	20
59) m/p-Xylene	13.00	91	29102	0.11	ppbv #	33
60) o-Xylene	13.69	91	32673	0.13	ppbv	99
62) Isopropylbenzene	14.67	105	33428	0.10	ppbv	92
66) Benzyl Chloride	16.99	91	691	0.04	ppbv #	69

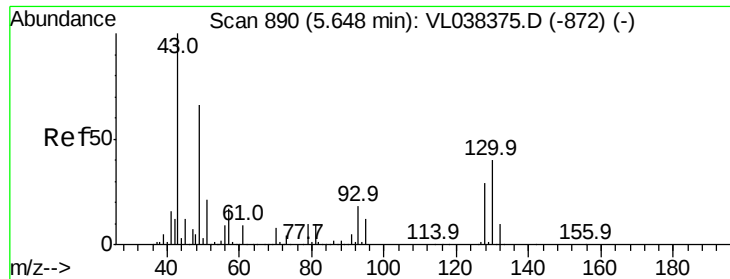
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Mar 2022 20:24 SV-3DL

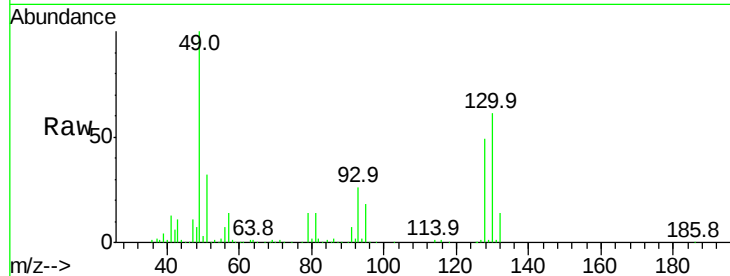
Tgt Ion: 49 Resp: 920859

Ion Ratio Lower Upper

49 100

128 48.8 24.3 72.9

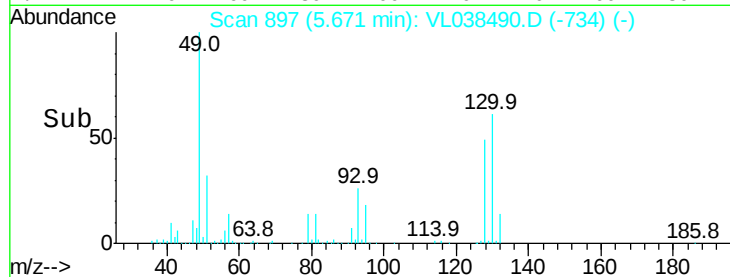
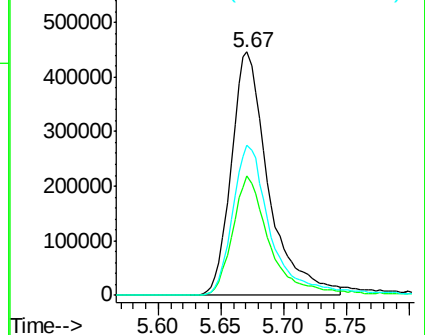
130 65.2 30.1 90.5



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: 0.05 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038490.D

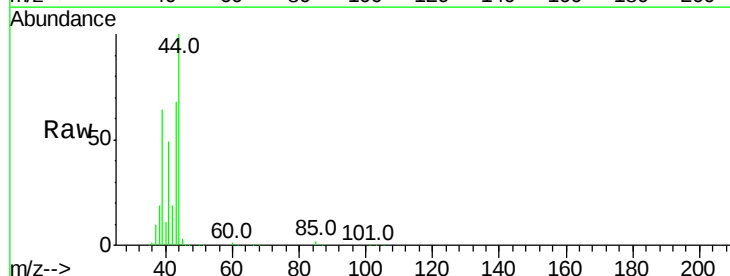
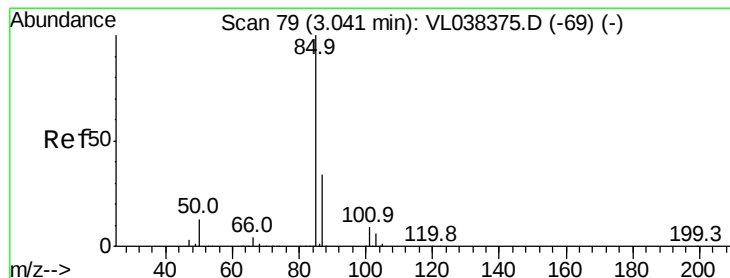
Acq: 2 Mar 2022 20:24

Tgt Ion: 85 Resp: 7595

Ion Ratio Lower Upper

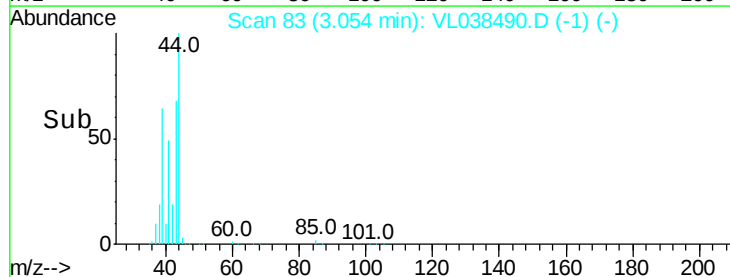
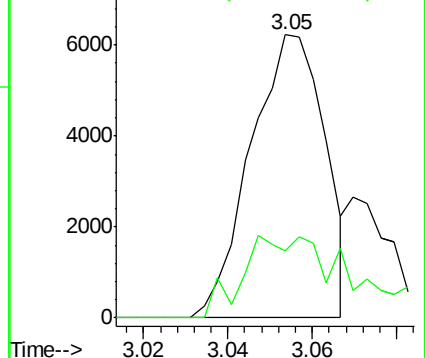
85 100

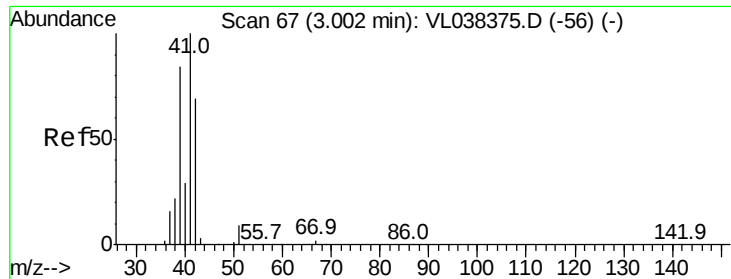
87 23.9 27.4 41.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 12.70 ppbv

RT: 3.21 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-3DL

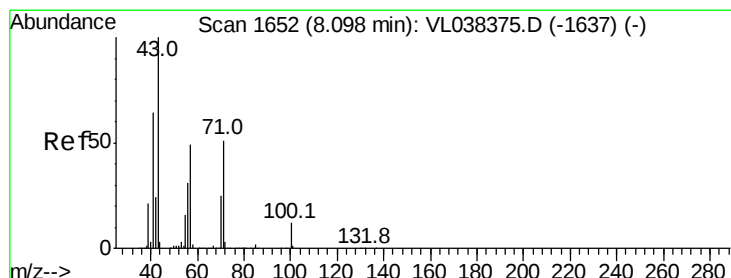
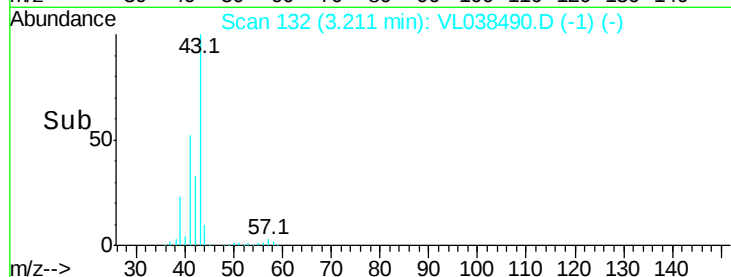
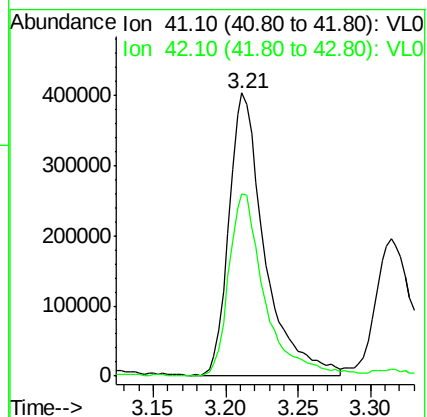
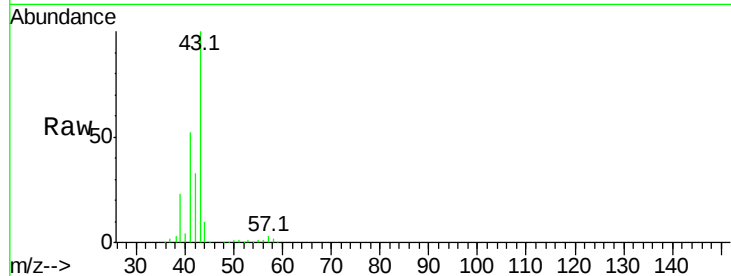
Acq: 2 Mar 2022 20:24

Tgt Ion: 41 Resp: 681986

Ion Ratio Lower Upper

41 100

42 65.0 54.6 82.0



#10

Heptane

Concen: 0.99 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.03 min

Lab File: VL038490.D

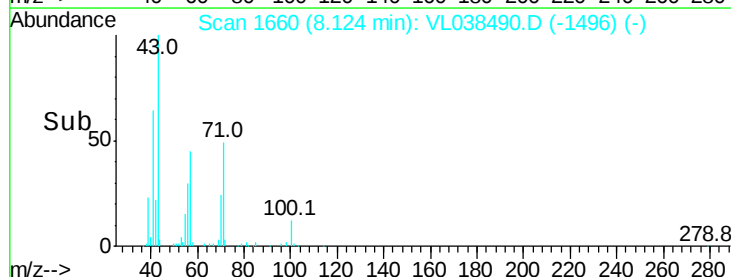
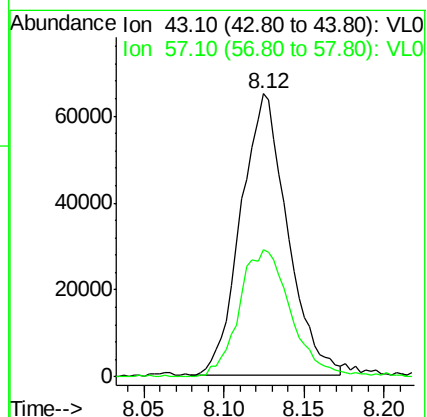
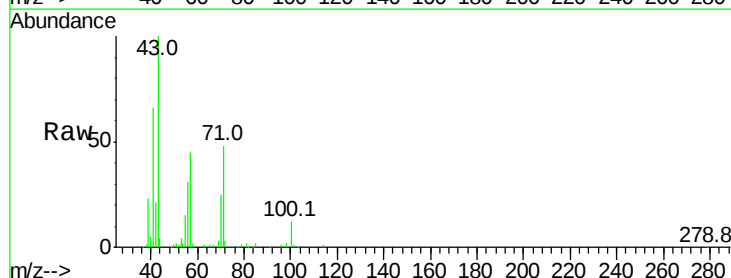
Acq: 2 Mar 2022 20:24

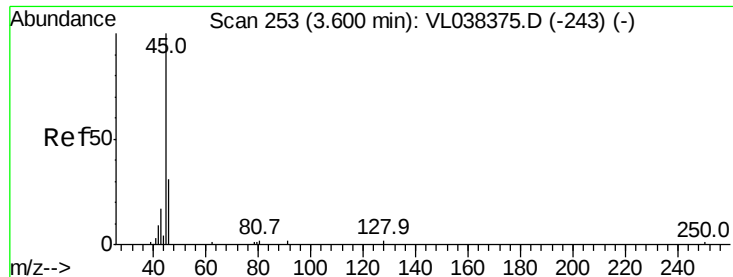
Tgt Ion: 43 Resp: 129207

Ion Ratio Lower Upper

43 100

57 50.6 39.8 59.8





#13

Ethanol

Concen: 14.48 ppbv

RT: 3.61 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-3DL

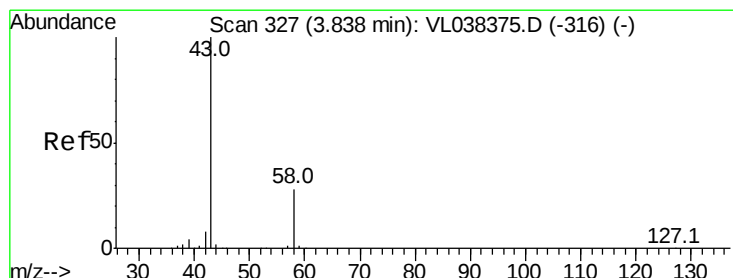
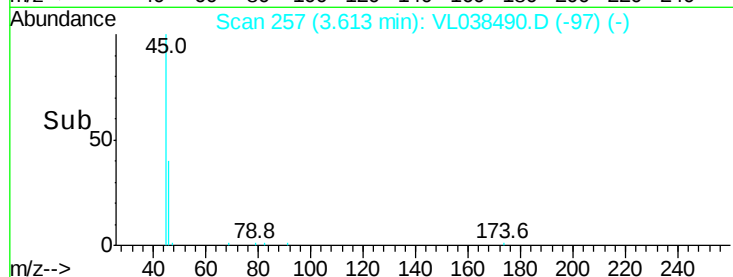
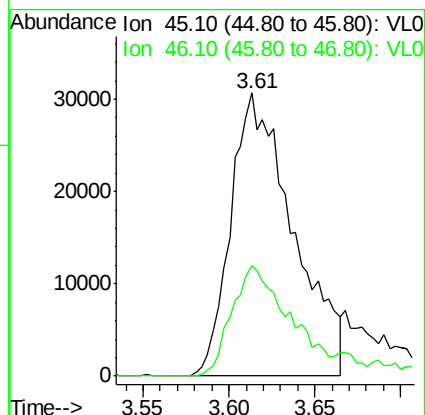
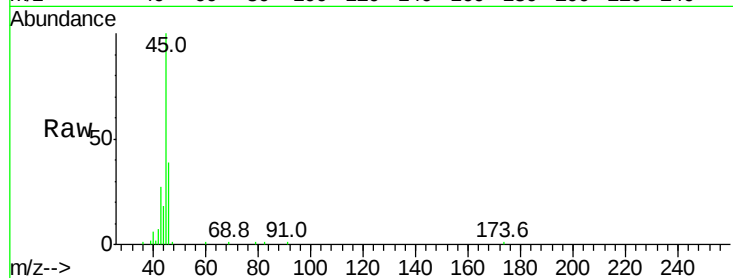
Acq: 2 Mar 2022 20:24

Tgt Ion: 45 Resp: 77580

Ion Ratio Lower Upper

45 100

46 45.0 18.2 72.8



#15

Acetone

Concen: 14.25 ppbv

RT: 3.88 min Scan# 340

Delta R.T. 0.04 min

Lab File: VL038490.D

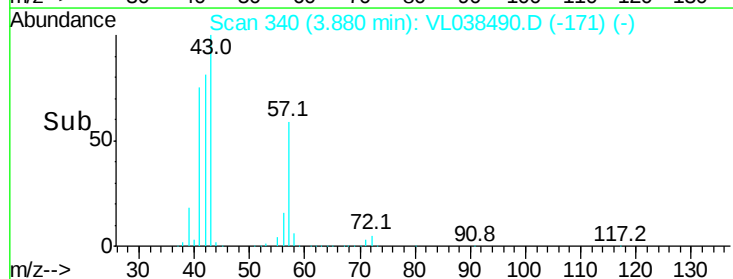
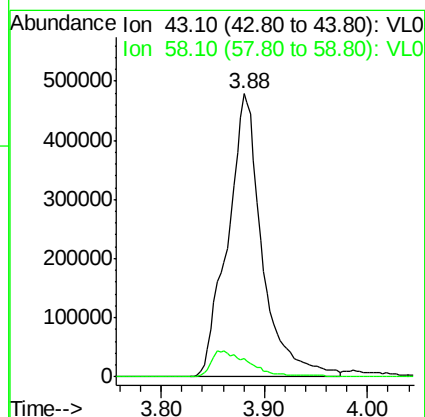
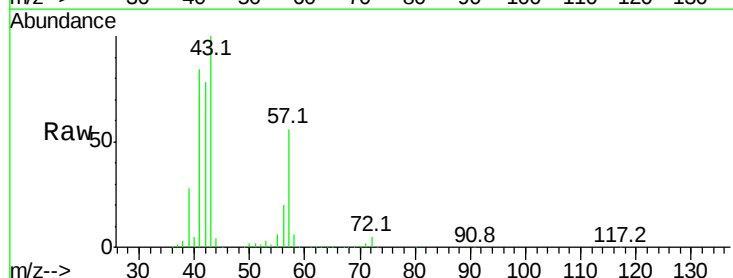
Acq: 2 Mar 2022 20:24

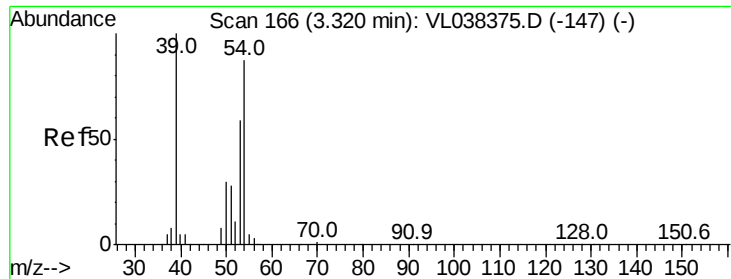
Tgt Ion: 43 Resp: 1116139

Ion Ratio Lower Upper

43 100

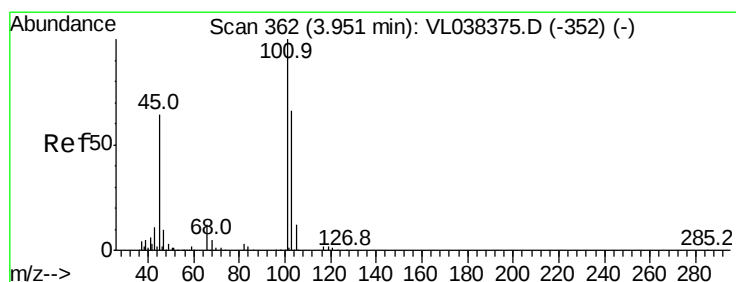
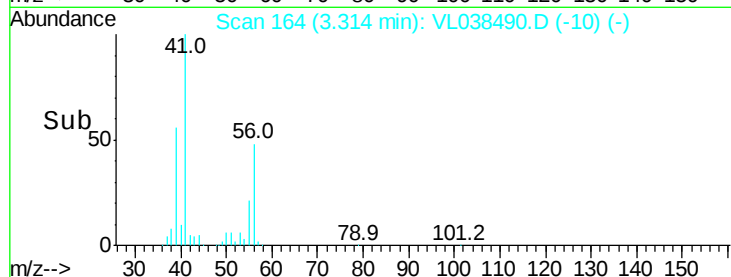
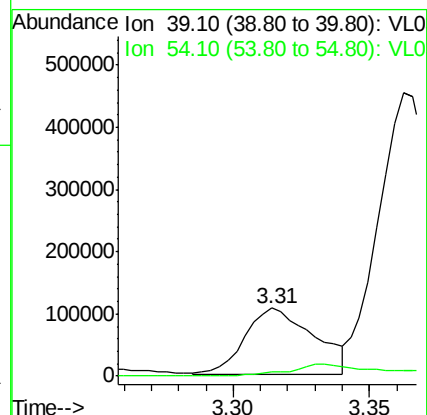
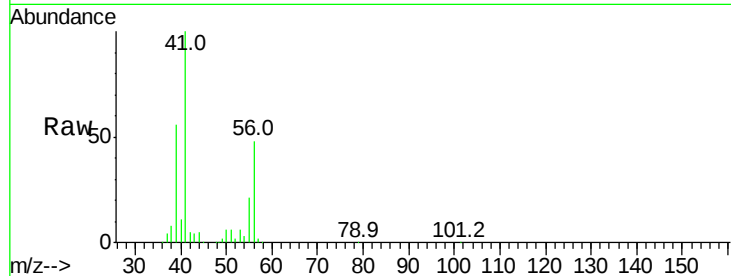
58 10.7 21.7 32.5#





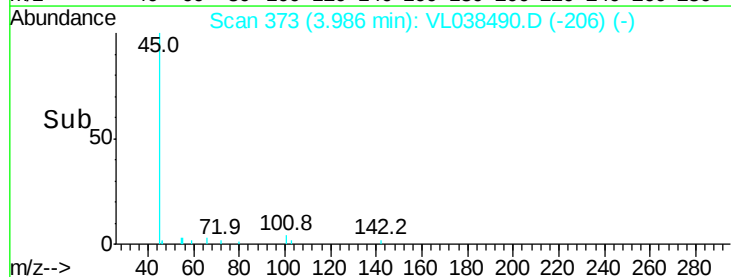
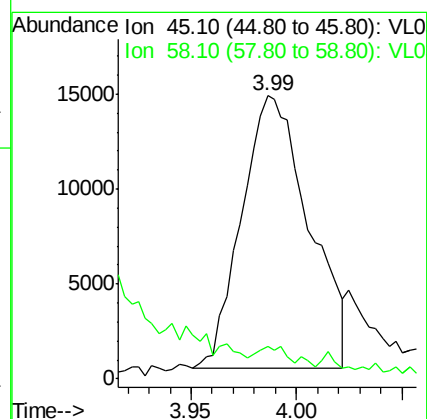
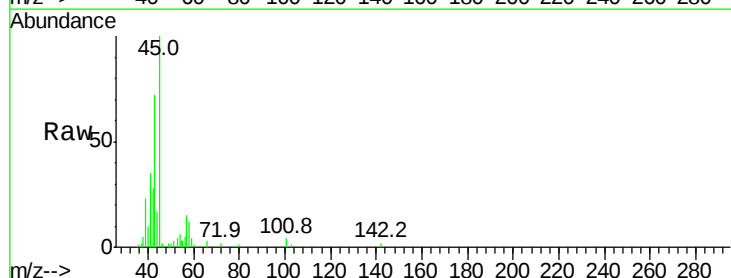
#16
 1,3-Butadiene
 Concen: 3.63 ppbv
 RT: 3.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 SV-3DL
 Acq: 2 Mar 2022 20:24

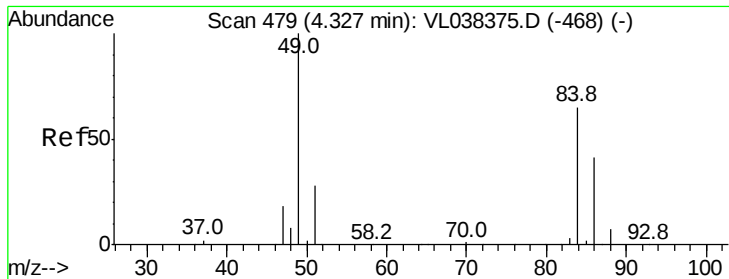
Tgt Ion: 39 Resp: 189917
 Ion Ratio Lower Upper
 39 100
 54 25.6 60.3 90.5#



#19
 Isopropyl Alcohol
 Concen: 0.70 ppbv
 RT: 3.99 min Scan# 373
 Delta R.T. 0.04 min
 Lab File: VL038490.D
 Acq: 2 Mar 2022 20:24

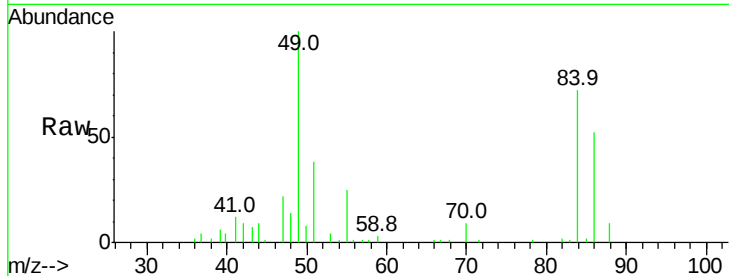
Tgt Ion: 45 Resp: 31959
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.8#



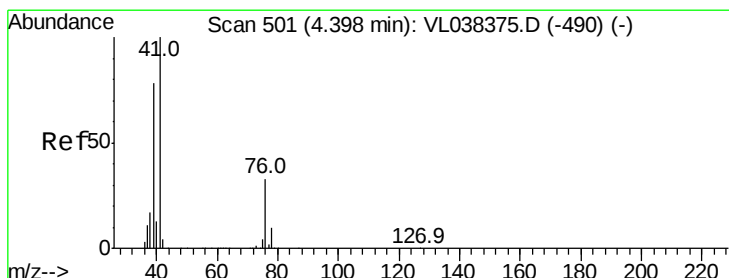
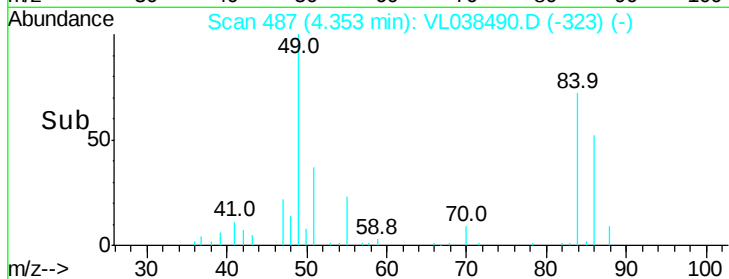
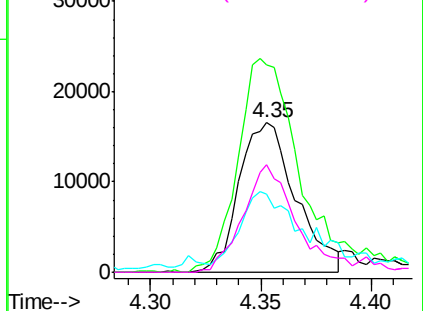


#20
Methylene Chloride
Concen: 0.77 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 20:24

Tgt Ion:	84	Resp:	29696
Ion	Ratio	Lower	Upper
84	100		
49	138.8	122.4	183.6
51	40.8	33.3	49.9
86	71.7	50.7	76.1

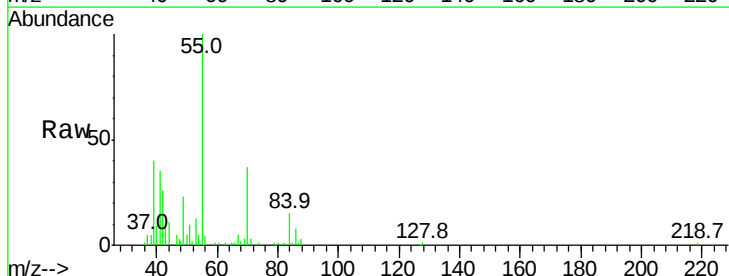


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

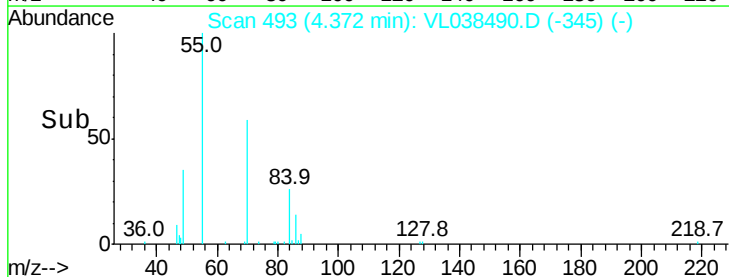
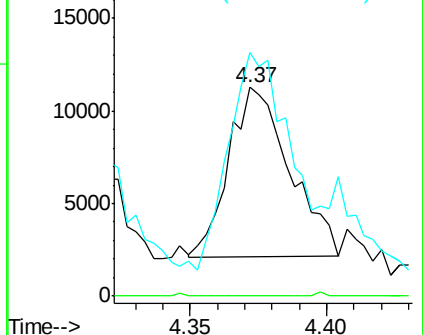


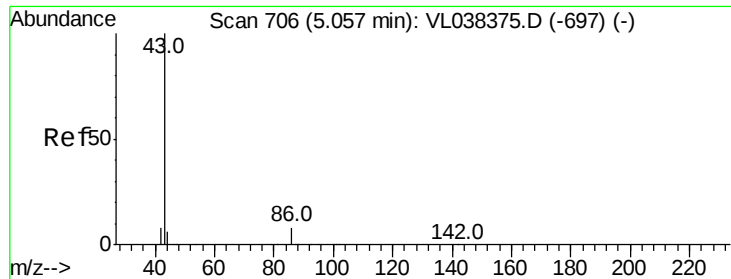
#21
Allyl Chloride
Concen: 0.22 ppbv
RT: 4.37 min Scan# 493
Delta R.T. -0.03 min
Lab File: VL038490.D
Acq: 2 Mar 2022 20:24

Tgt Ion:	41	Resp:	14284
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.4	38.0#
39	207.7	63.0	94.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.45 ppbv

RT: 5.07

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 2 Mar 2022 20:24

Tgt Ion: 43 Resp: 46361

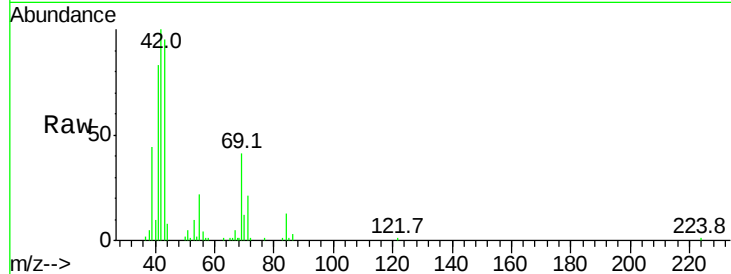
Ion Ratio Lower Upper

43 100

86 2.9 5.8 8.6#

42 103.4 7.4 11.0#

44 0.6 4.2 6.2#

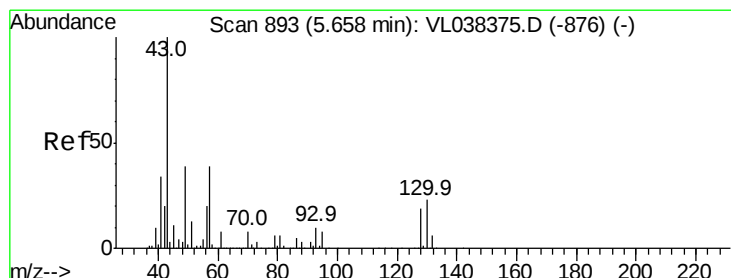
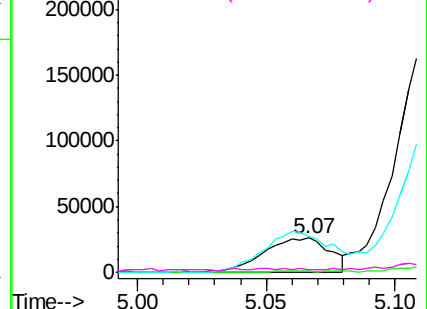
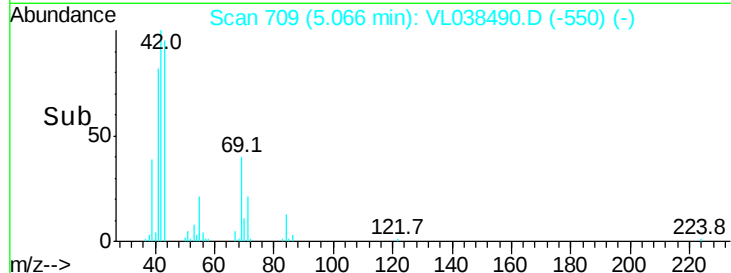


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 2.13 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.03 min

Lab File: VL038490.D

Acq: 2 Mar 2022 20:24

Tgt Ion: 43 Resp: 447864

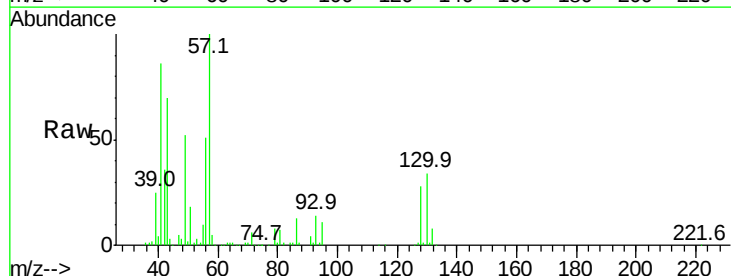
Ion Ratio Lower Upper

43 100

45 0.6 7.8 11.6#

61 0.5 7.5 11.3#

70 1.7 5.4 8.0#

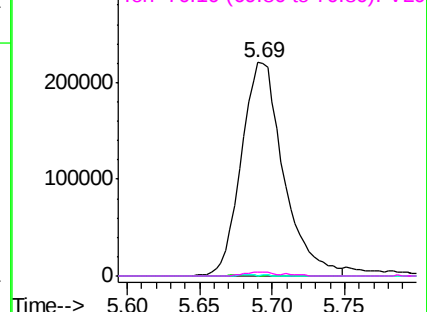
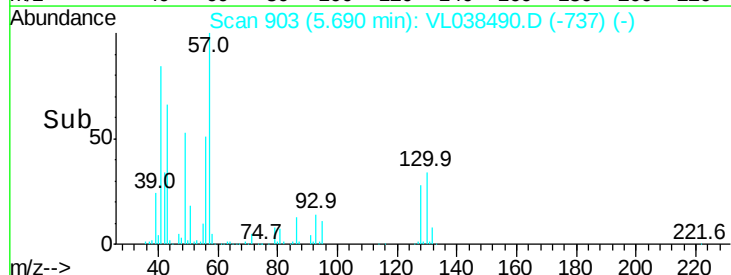


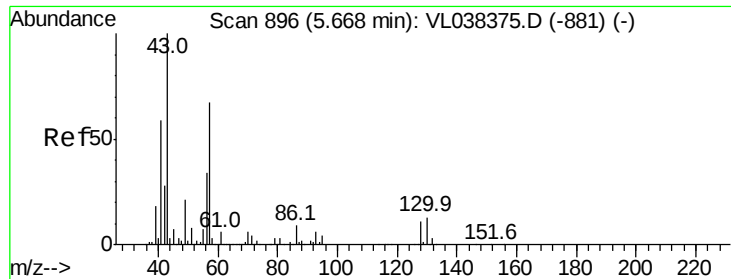
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

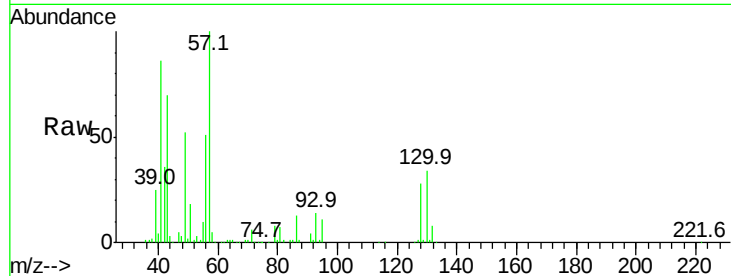
Ion 70.10 (69.80 to 70.80): VL0



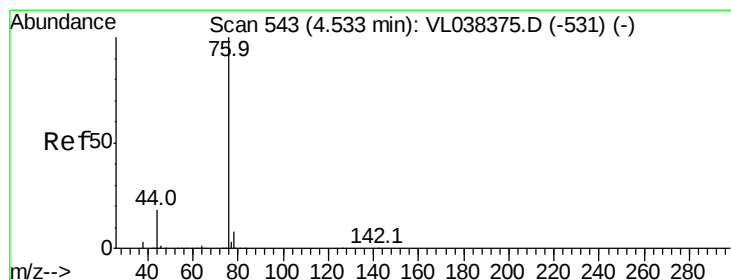
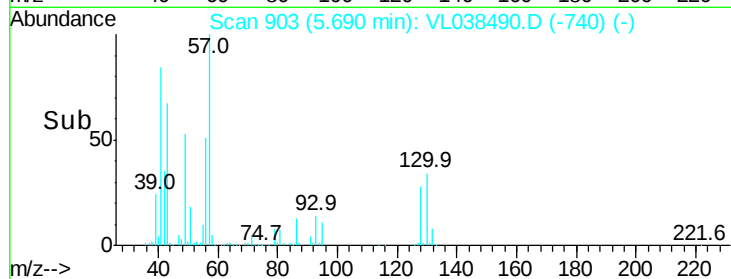
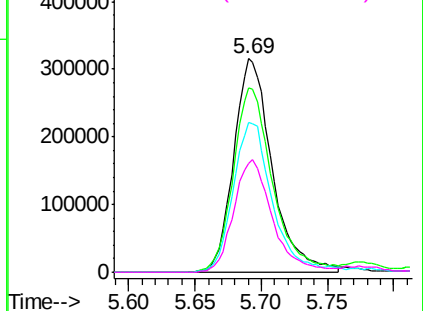


#26
Hexane
Concen: 6.67 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-3DL
Acq: 2 Mar 2022 20:24

Tgt Ion: 57 Resp: 635463
Ion Ratio Lower Upper
57 100
41 89.0 73.1 109.7
43 73.9 181.0 271.4#
56 53.3 43.4 65.0

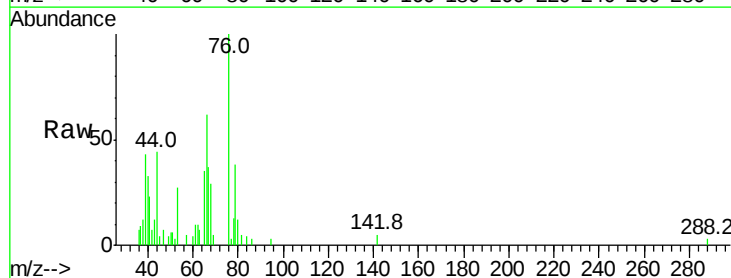


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

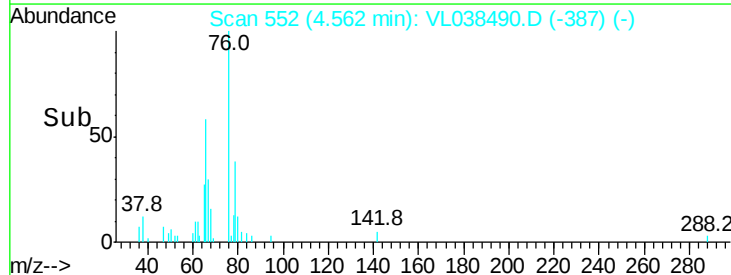
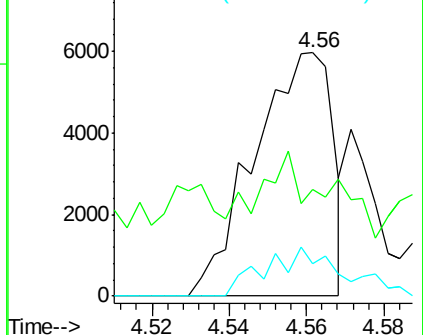


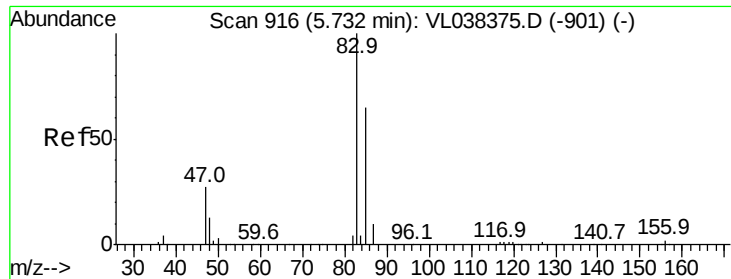
#27
Carbon Disulfide
Concen: 0.08 ppbv
RT: 4.56 min Scan# 552
Delta R.T. 0.03 min
Lab File: VL038490.D
Acq: 2 Mar 2022 20:24

Tgt Ion: 76 Resp: 8367
Ion Ratio Lower Upper
76 100
44 55.0 14.2 21.2#
78 24.9 7.8 11.6#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.08 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

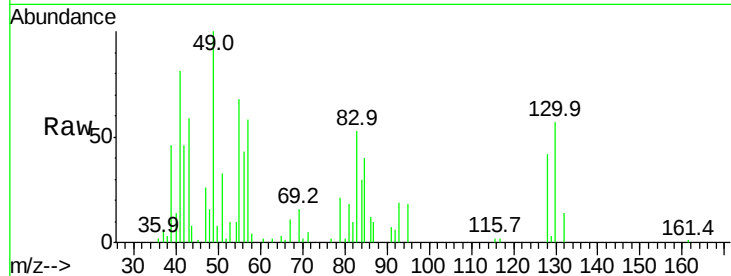
Acq: 2 Mar 2022 20:24

Tgt Ion: 83 Resp: 11854

Ion Ratio Lower Upper

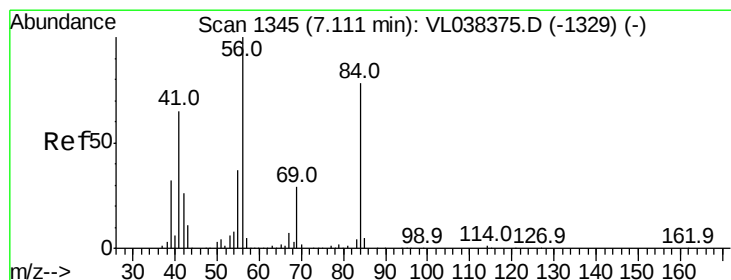
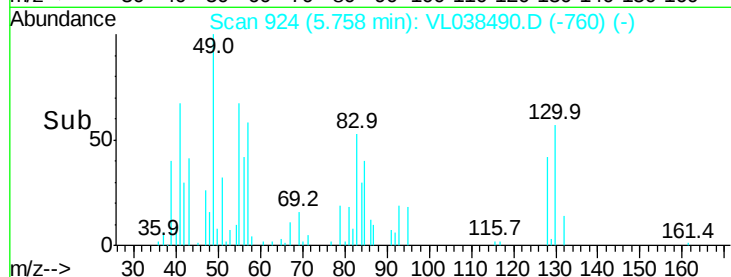
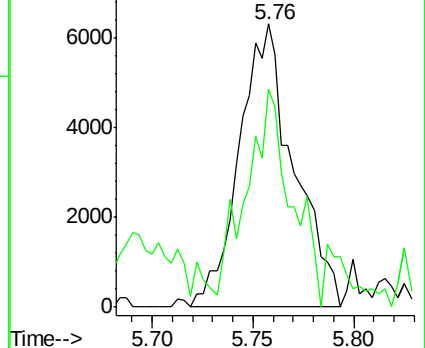
83 100

85 73.2 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.07 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. 0.03 min

Lab File: VL038490.D

Acq: 2 Mar 2022 20:24

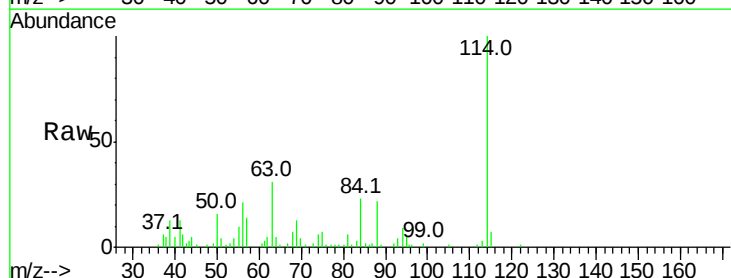
Tgt Ion: 84 Resp: 5454

Ion Ratio Lower Upper

84 100

56 0.0 116.2 174.4#

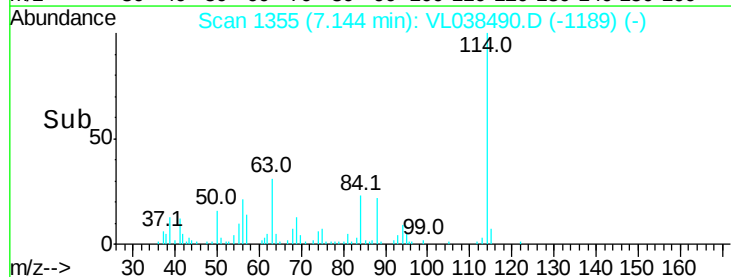
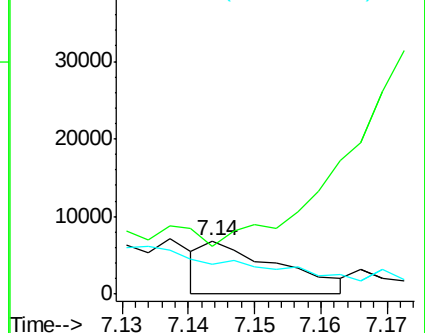
41 0.0 74.3 111.5#

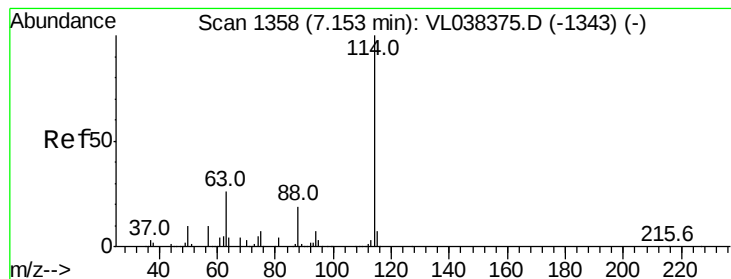


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.18

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Mar 2022 20:24

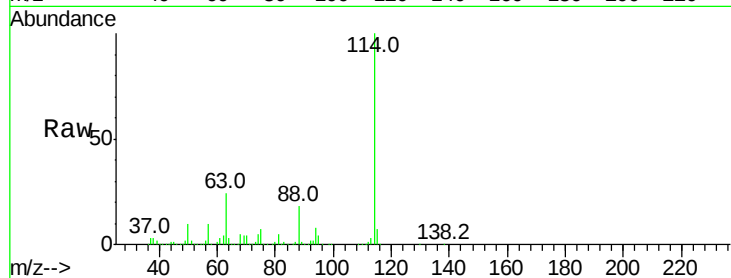
Tgt Ion: 114 Resp: 2445213

Ion Ratio Lower Upper

114 100

63 24.9 22.2 33.2

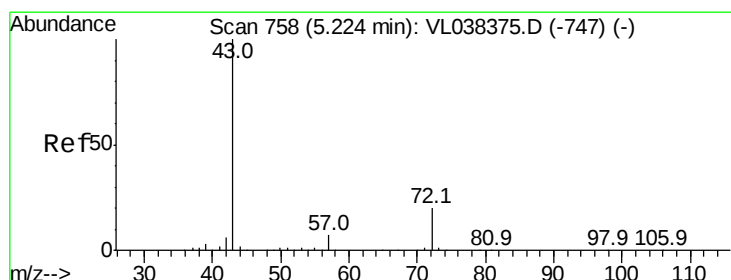
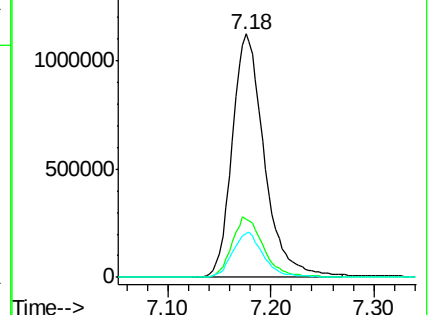
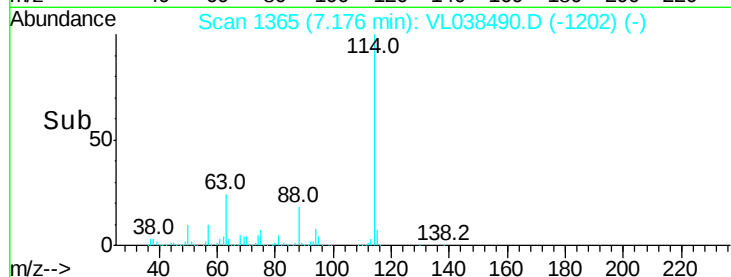
88 18.1 15.2 22.8



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: 0.38 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.04 min

Lab File: VL038490.D

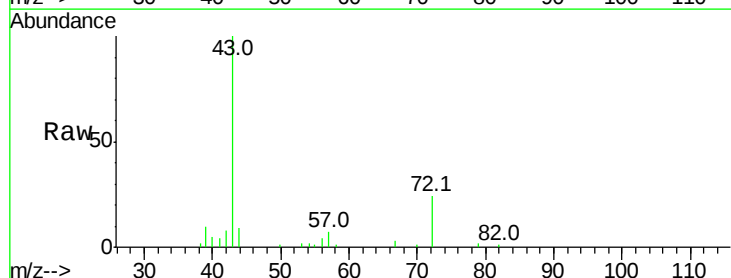
Acq: 2 Mar 2022 20:24

Tgt Ion: 43 Resp: 29234

Ion Ratio Lower Upper

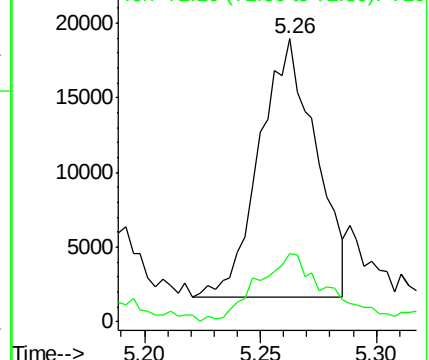
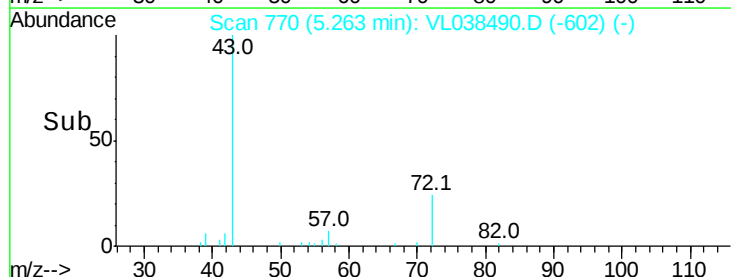
43 100

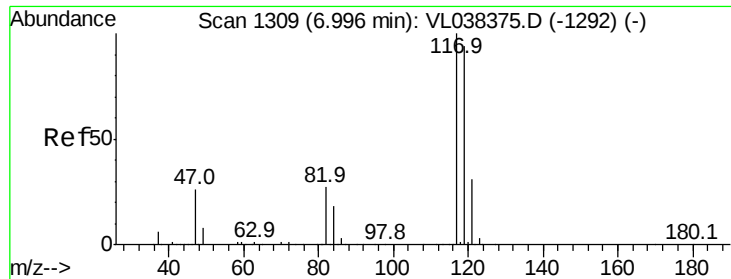
72 34.6 17.4 26.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

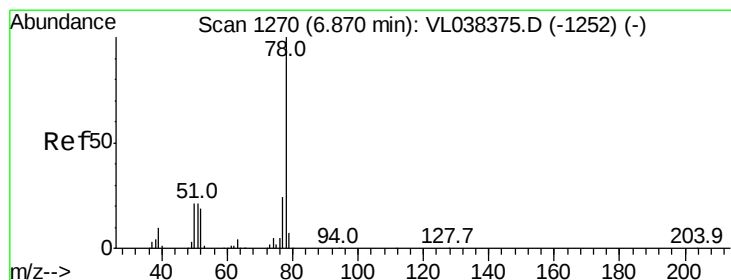
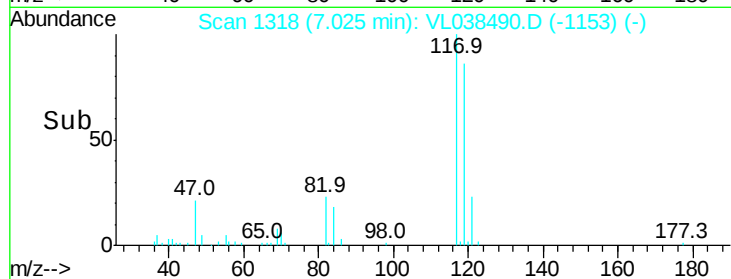
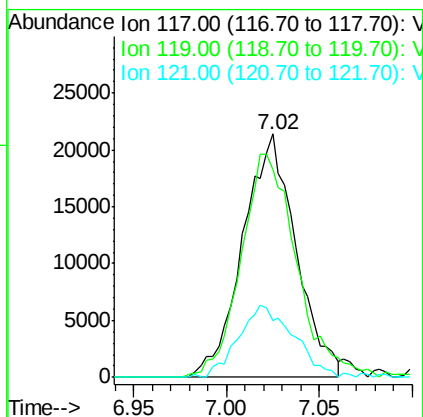
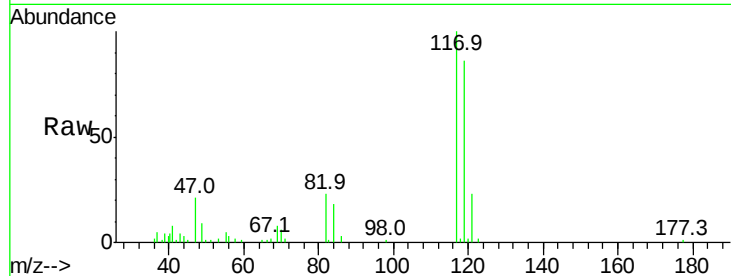
Ion 72.10 (71.80 to 72.80): VL0





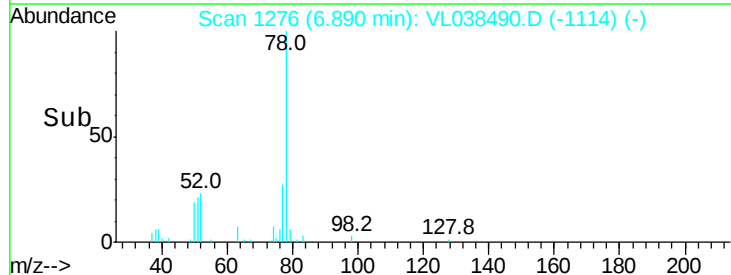
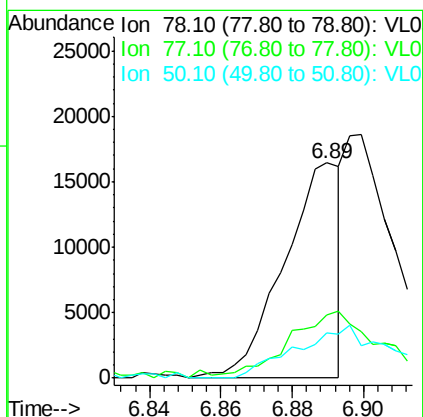
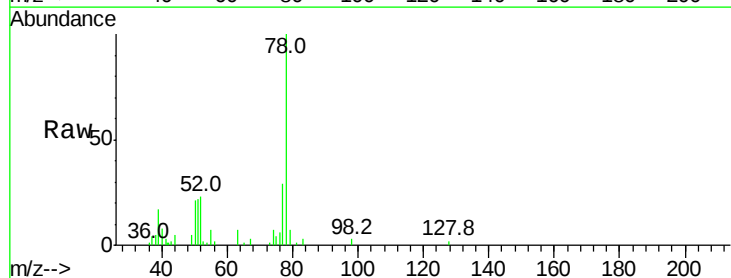
#35
 Carbon Tetrachloride
 Concen: 0.25 ppbv
 RT: 7.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-3DL
 Acq: 2 Mar 2022 20:24

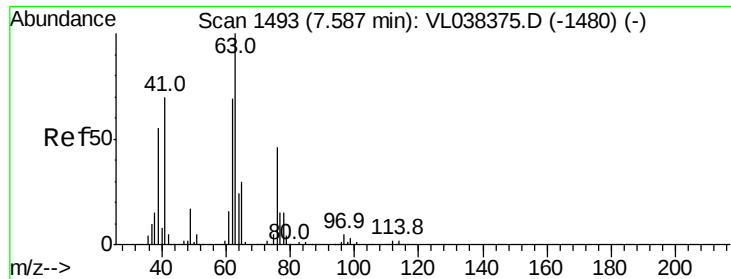
Tgt Ion: 117 Resp: 42548
 Ion Ratio Lower Upper
 117 100
 119 84.5 74.9 112.3
 121 23.3 24.8 37.2#



#36
 Benzene
 Concen: 0.08 ppbv
 RT: 6.89 min Scan# 1276
 Delta R.T. 0.02 min
 Lab File: VL038490.D
 Acq: 2 Mar 2022 20:24

Tgt Ion: 78 Resp: 18041
 Ion Ratio Lower Upper
 78 100
 77 29.1 19.0 28.6#
 50 16.7 16.6 24.8





#39

1,2-Dichloropropane

Concen: 6.98 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Mar 2022 20:24 SV-3DL

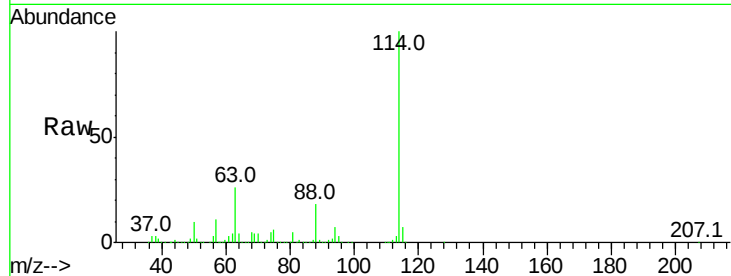
Tgt Ion: 63 Resp: 598466

Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

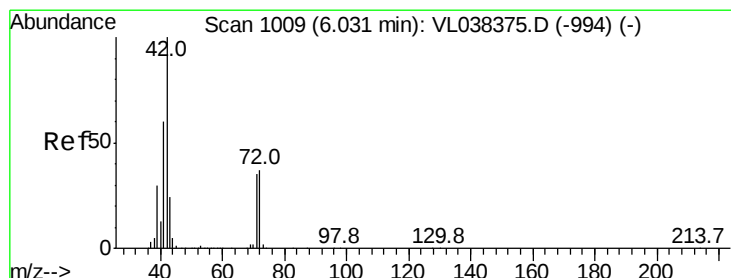
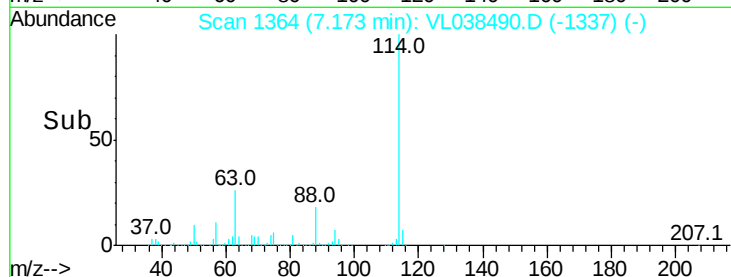
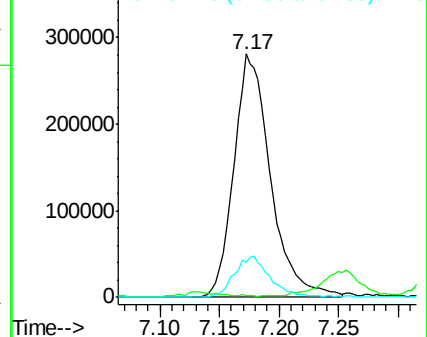
62 14.5 55.5 83.3#



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



#41

Tetrahydrofuran

Concen: 0.05 ppbv

RT: 6.08 min Scan# 1024

Delta R.T. 0.05 min

Lab File: VL038490.D

Acq: 2 Mar 2022 20:24

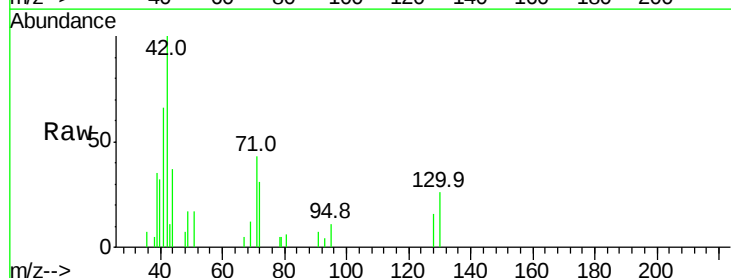
Tgt Ion: 42 Resp: 2645

Ion Ratio Lower Upper

42 100

72 109.3 29.9 44.9#

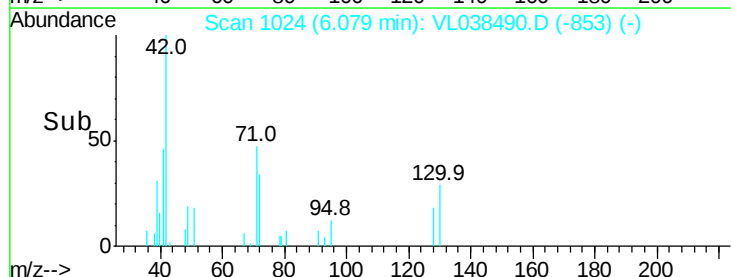
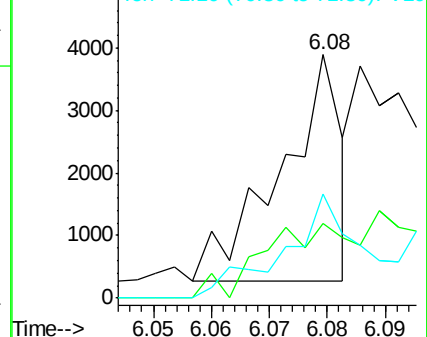
71 112.5 28.6 42.8#

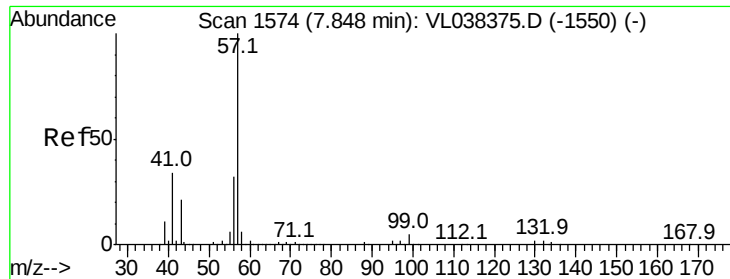


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

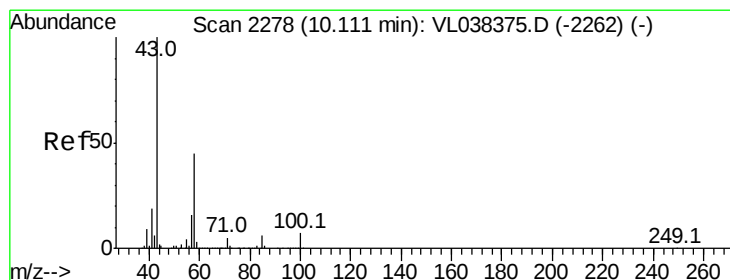
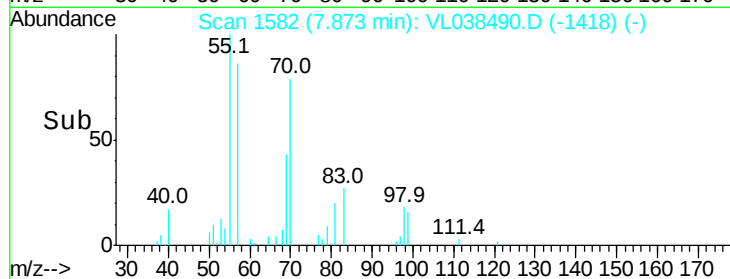
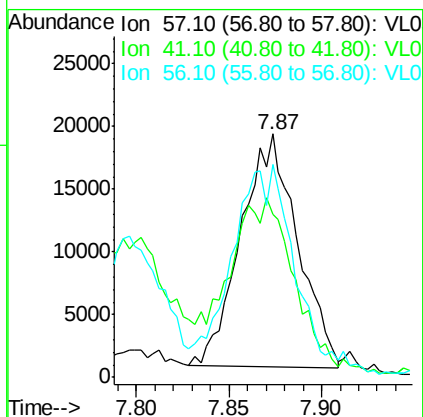
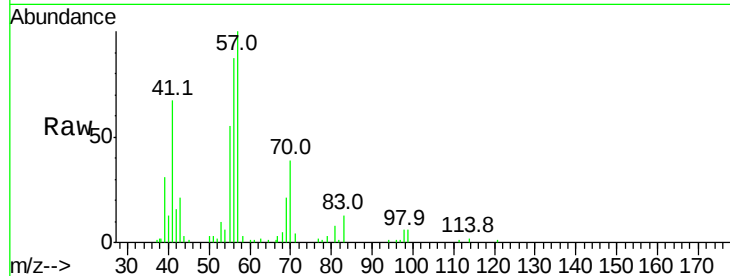
Ion 71.10 (70.80 to 71.80): VL0





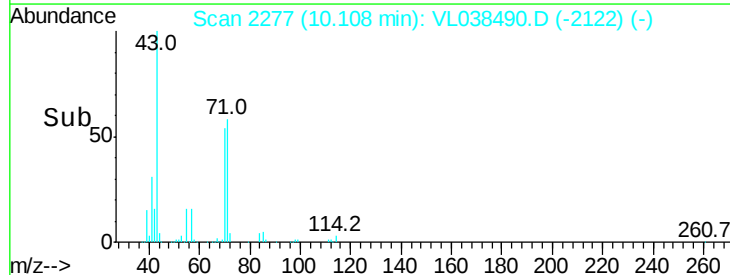
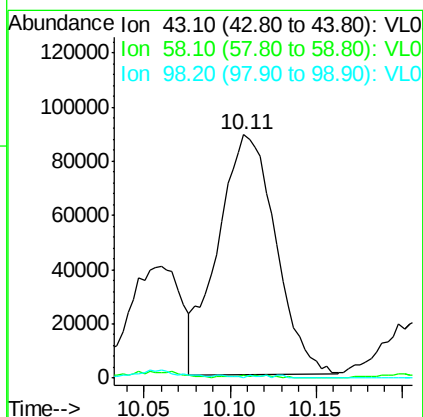
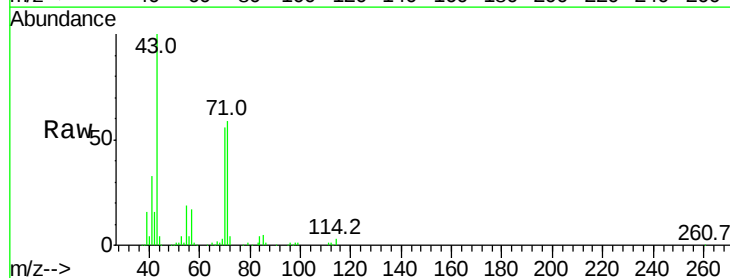
#44
 2,2,4-Trimethylpentane
 Concen: 0.11 ppbv
 RT: 7.87
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 2 Mar 2022 20:24

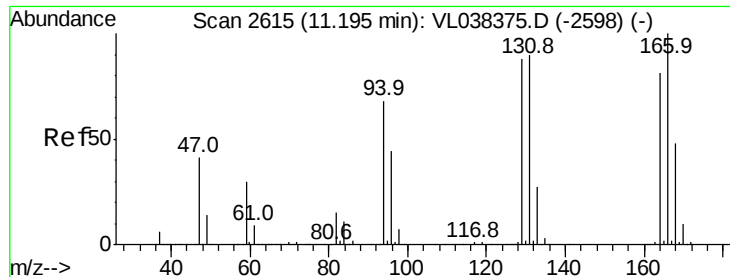
Tgt Ion: 57 Resp: 39569
 Ion Ratio Lower Upper
 57 100
 41 100.3 26.6 39.8#
 56 106.3 25.0 37.6#



#51
 2-Hexanone
 Concen: 3.41 ppbv
 RT: 10.11 min Scan# 2277
 Delta R.T. -0.00 min
 Lab File: VL038490.D
 Acq: 2 Mar 2022 20:24

Tgt Ion: 43 Resp: 207855
 Ion Ratio Lower Upper
 43 100
 58 0.6 37.4 56.0#
 98 0.0 0.1 0.1#





#52

Tetrachloroethene

Concen: 0.46 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 2 Mar 2022 20:24

Tgt Ion:164 Resp: 33000

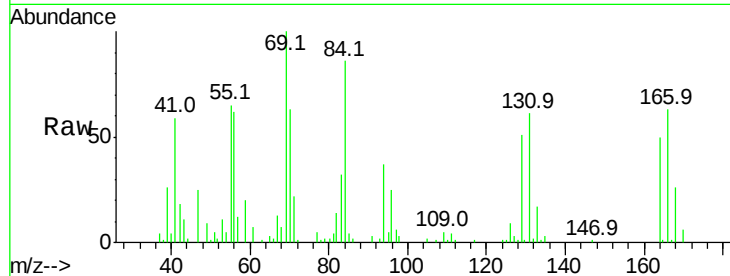
Ion Ratio Lower Upper

164 100

166 123.7 98.6 148.0

129 102.0 86.9 130.3

131 121.0 88.6 133.0

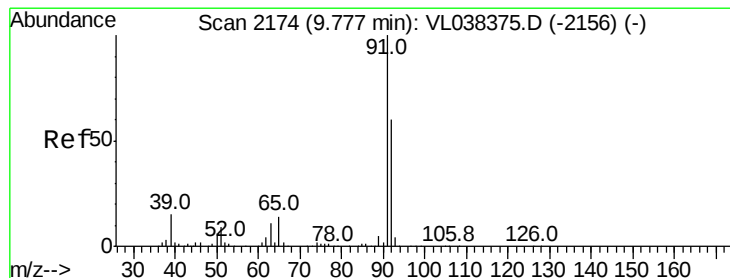
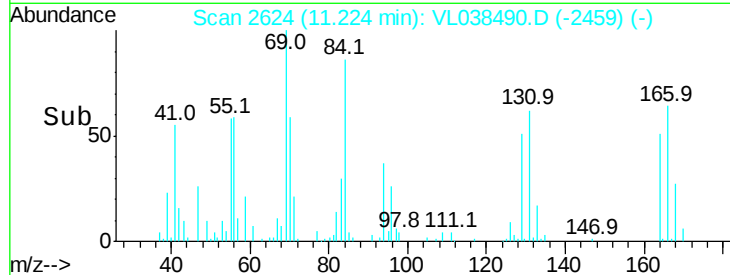
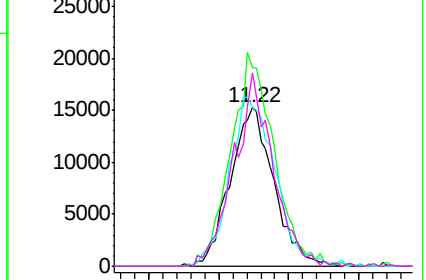


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.07 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.04 min

Lab File: VL038490.D

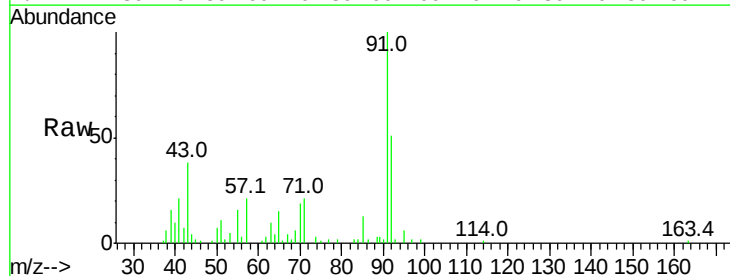
Acq: 2 Mar 2022 20:24

Tgt Ion: 91 Resp: 17279

Ion Ratio Lower Upper

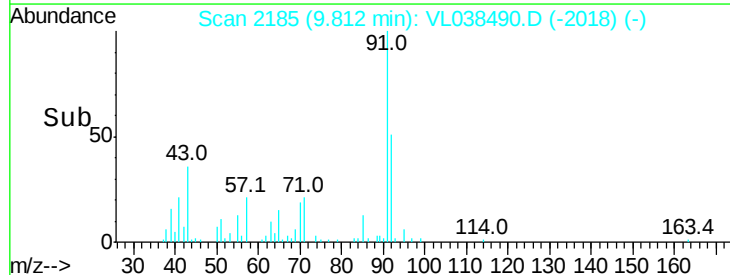
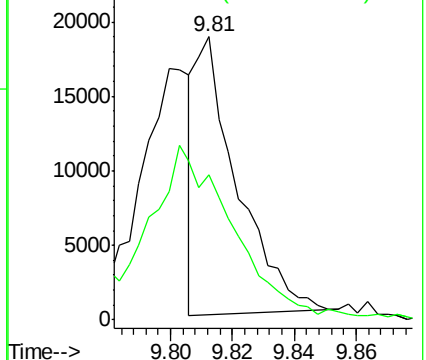
91 100

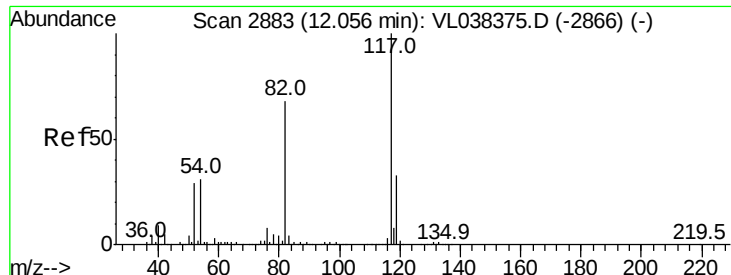
92 0.0 48.2 72.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

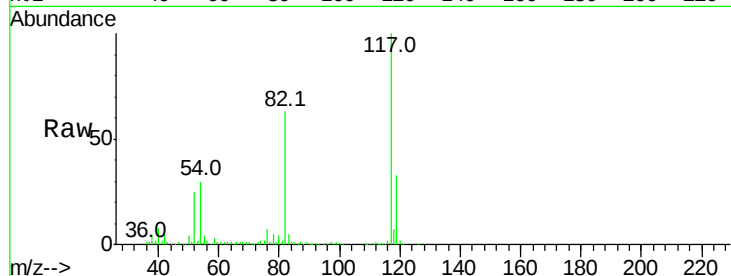
Ion 92.10 (91.80 to 92.80): VL0



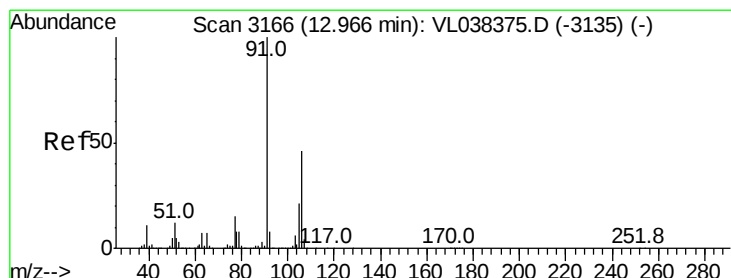
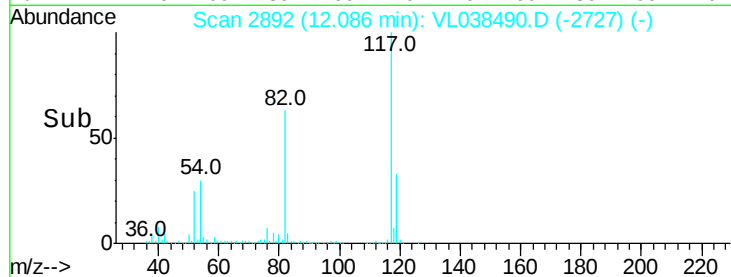
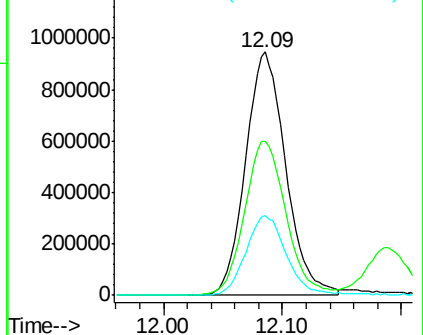


#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 2 Mar 2022 20:24

Tgt Ion: 117 Resp: 2211801
Ion Ratio Lower Upper
117 100
82 65.2 54.9 82.3
119 34.3 46.1 69.1#

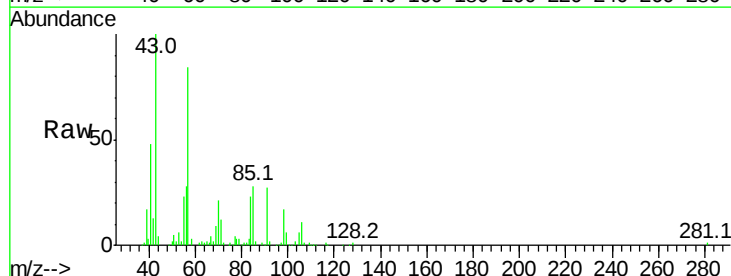


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

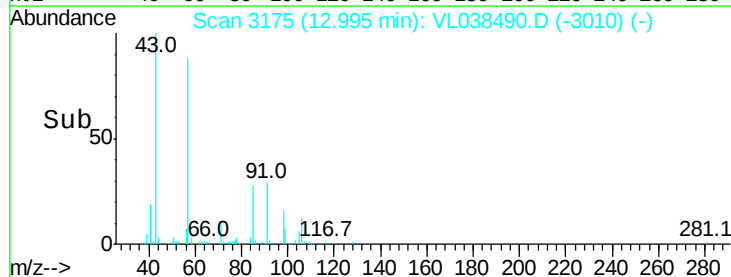
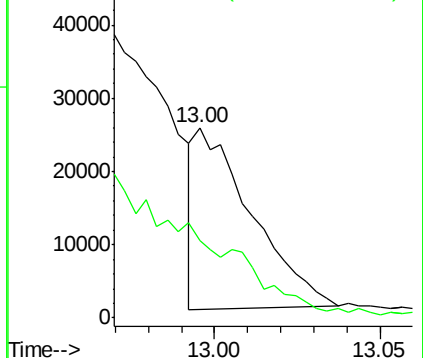


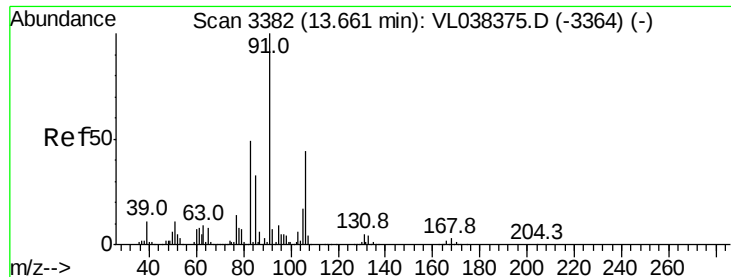
#59
m/p-Xylene
Concen: 0.11 ppbv
RT: 13.00 min Scan# 3175
Delta R.T.: 0.03 min
Lab File: VL038490.D
Acq: 2 Mar 2022 20:24

Tgt Ion: 91 Resp: 29102
Ion Ratio Lower Upper
91 100
106 0.0 34.4 51.6#



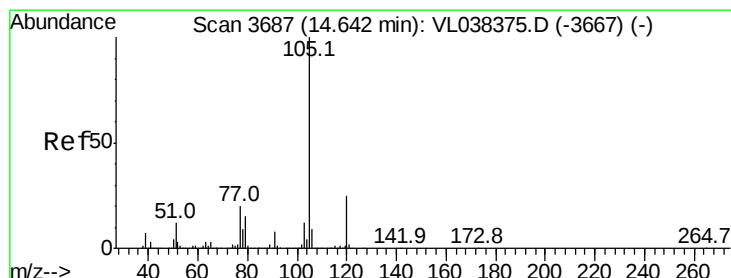
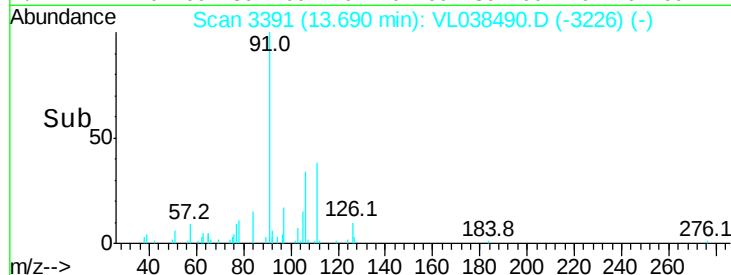
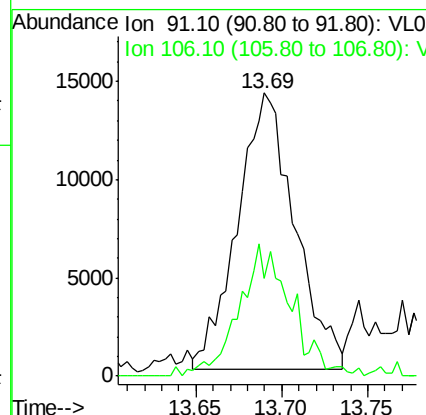
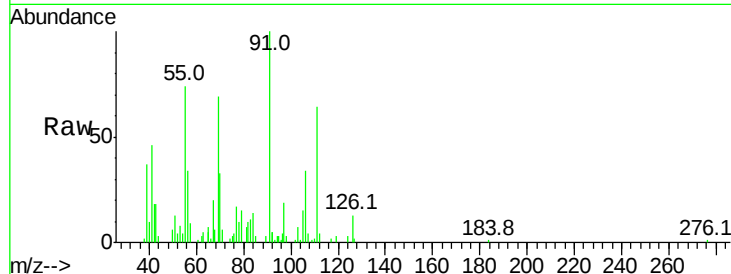
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





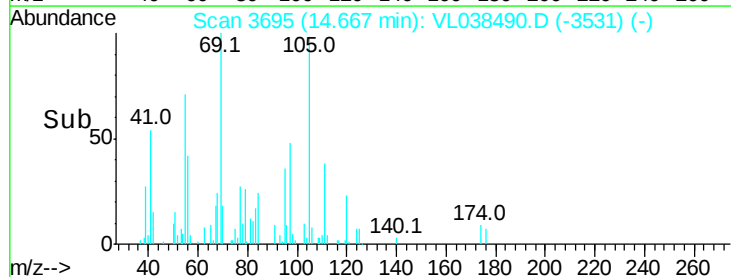
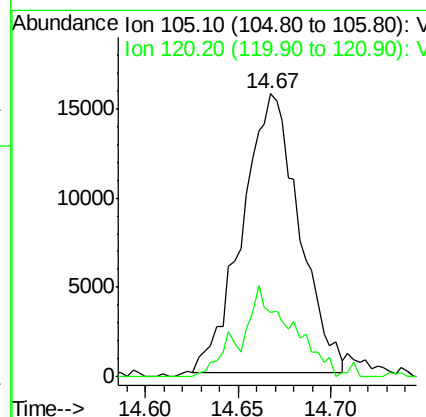
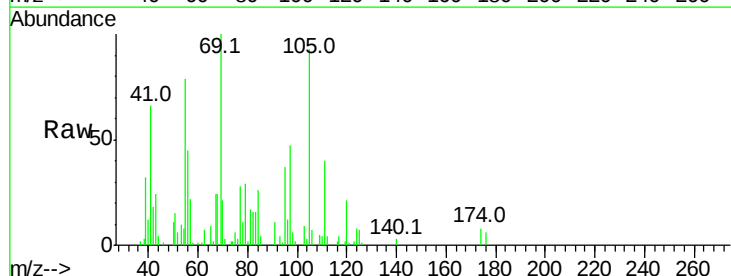
#60
o-Xylene
Concen: 0.13 ppbv
RT: 13.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 2 Mar 2022 20:24

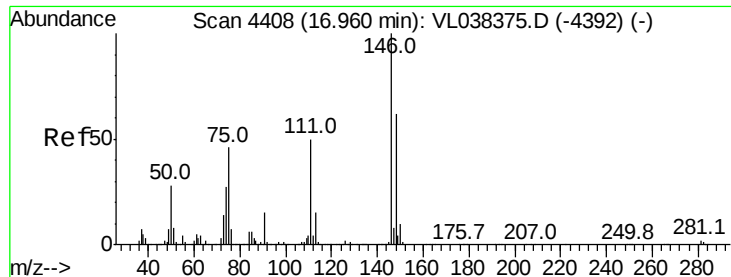
Tgt Ion: 91 Resp: 32673
Ion Ratio Lower Upper
91 100
106 44.4 21.9 65.5



#62
Isopropylbenzene
Concen: 0.10 ppbv
RT: 14.67 min Scan# 3695
Delta R.T. 0.03 min
Lab File: VL038490.D
Acq: 2 Mar 2022 20:24

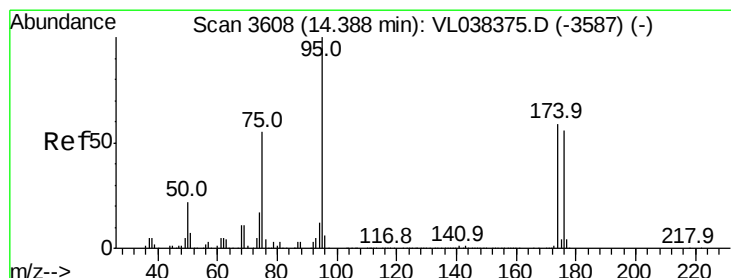
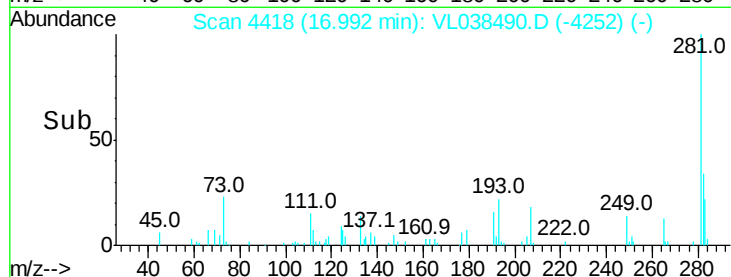
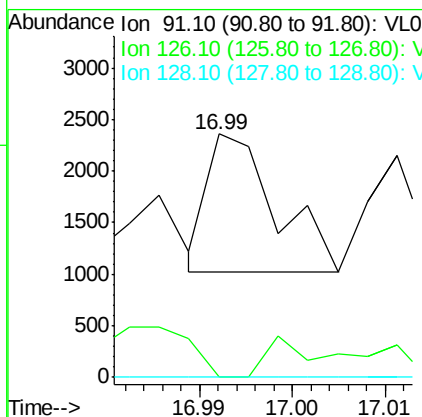
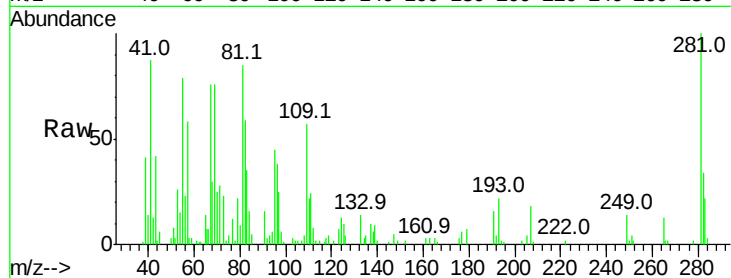
Tgt Ion: 105 Resp: 33428
Ion Ratio Lower Upper
105 100
120 29.7 20.6 30.8





#66
Benzyl Chloride
Concen: 0.04 ppbv
RT: 16.99
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 20:24

Tgt Ion: 91 Resp: 691
Ion Ratio Lower Upper
91 100
126 0.0 12.3 18.5#
128 0.0 4.2 6.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.87 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. 0.03 min
Lab File: VL038490.D
Acq: 2 Mar 2022 20:24

Tgt Ion: 95 Resp: 1990045
Ion Ratio Lower Upper
95 100
174 56.7 49.0 73.4
175 4.0 3.6 5.4

