

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020122\
 Data File : VL038324.D
 Acq On : 1 Feb 2022 16:51
 Operator : SY/AP
 Sample : N1341-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-1DL

Quant Time: Feb 02 05:14:28 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	921512	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.14	114	2736479	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	2363464	10.00	ppbv	-0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1841822	10.27	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

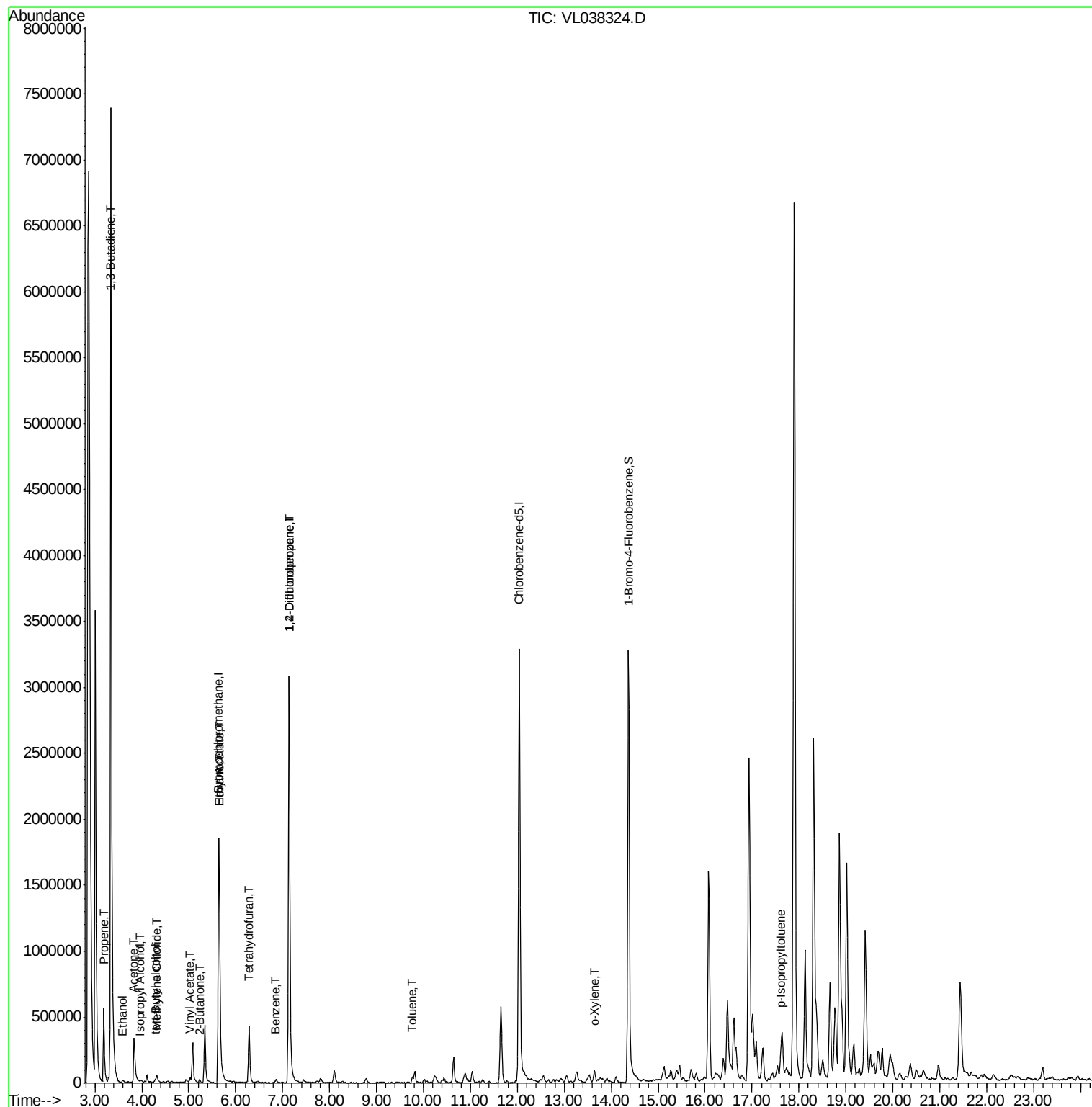
Target Compounds					Qvalue	
9) Propene	3.19	41	180402	3.021	ppbv	96
13) Ethanol	3.60	45	11911	1.858	ppbv #	51
15) Acetone	3.83	43	469360	5.778	ppbv	97
16) 1,3-Butadiene	3.34	39	1271460	21.811	ppbv #	12
17) tert-Butyl alcohol	4.29	59	9701	0.109	ppbv #	37
19) Isopropyl Alcohol	3.96	45	5496	0.108	ppbv #	91
20) Methylene Chloride	4.32	84	20146	0.426	ppbv	93
23) Vinyl Acetate	5.03	43	11279	0.095	ppbv #	1
25) Ethyl Acetate	5.65	43	259793	1.142	ppbv #	77
26) Hexane	5.65	57	379363	3.586	ppbv #	43
34) 2-Butanone	5.22	43	14337	0.160	ppbv #	53
36) Benzene	6.85	78	21935	0.091	ppbv #	89
39) 1,2-Dichloropropane	7.13	63	662977	6.756	ppbv #	25
41) Tetrahydrofuran	6.28	42	60579	1.007	ppbv #	38
53) Toluene	9.76	91	36255	0.135	ppbv	96
60) o-Xylene	13.64	91	13339	0.048	ppbv	99
69) p-Isopropyltoluene	17.60	119	22265	0.069	ppbv #	48

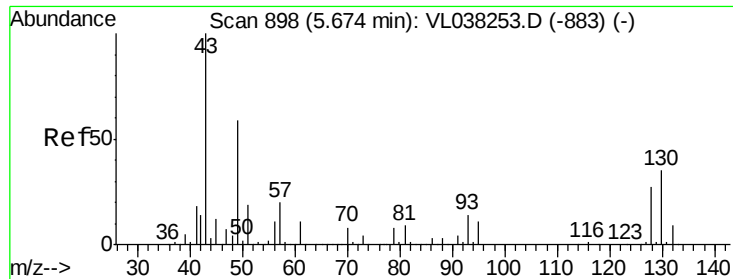
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
QLast Update : Mon Jan 24 14:12:48 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 1 Feb 2022 16:51

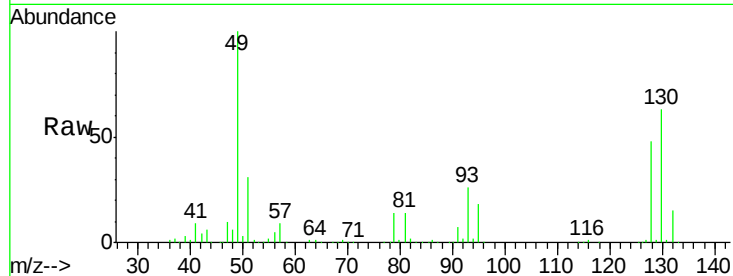
Tgt Ion: 49 Resp: 921512

Ion Ratio Lower Upper

49 100

128 53.5 24.5 73.5

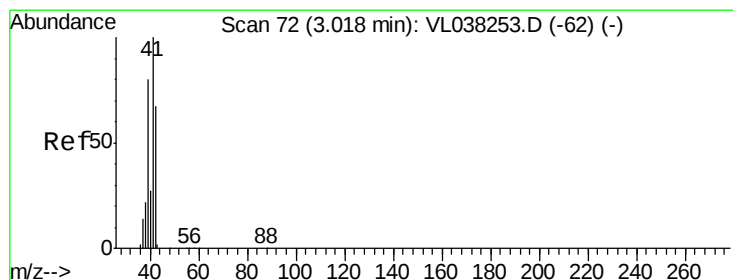
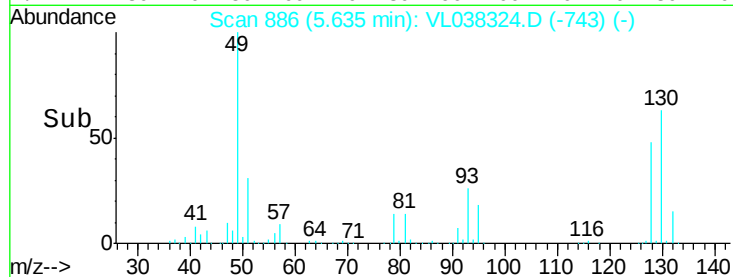
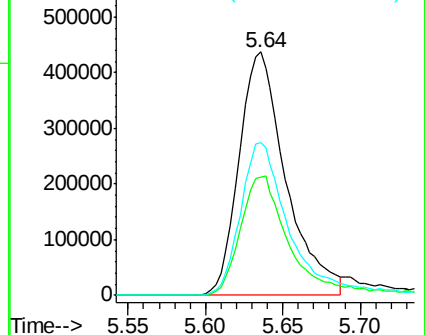
130 68.5 30.1 90.5



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



#9

Propene

Concen: 3.021 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.17 min

Lab File: VL038324.D

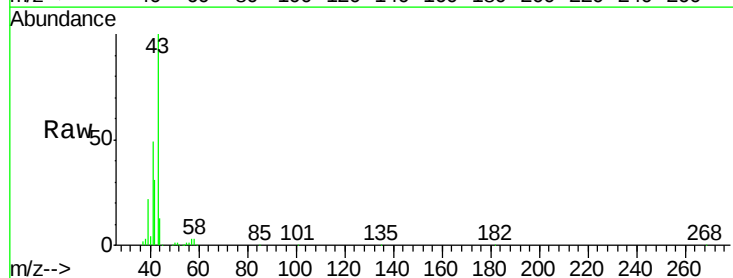
Acq: 1 Feb 2022 16:51

Tgt Ion: 41 Resp: 180402

Ion Ratio Lower Upper

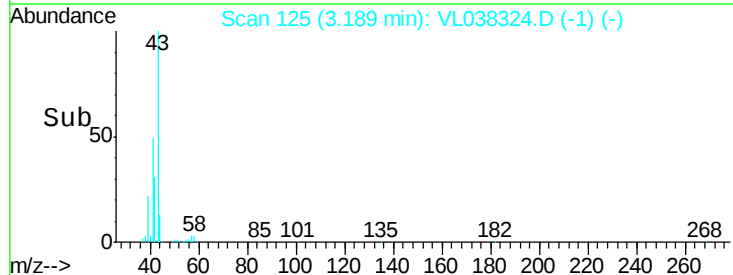
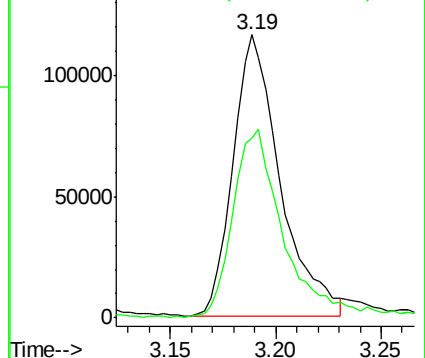
41 100

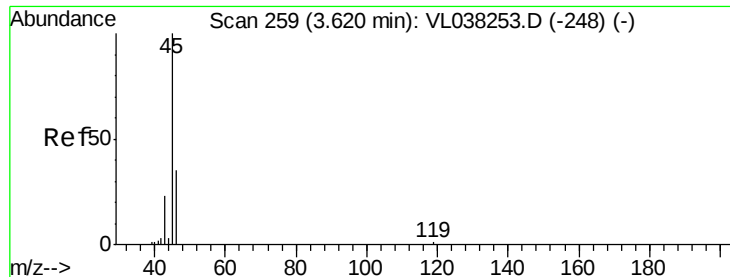
42 71.9 54.9 82.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

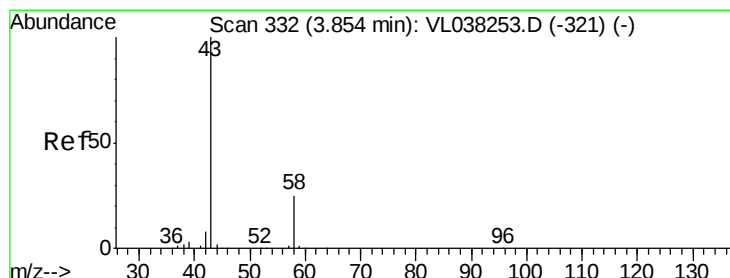
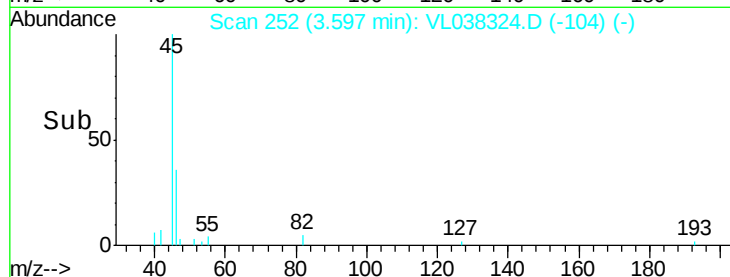
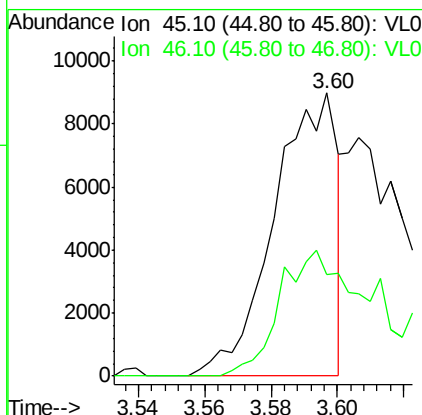
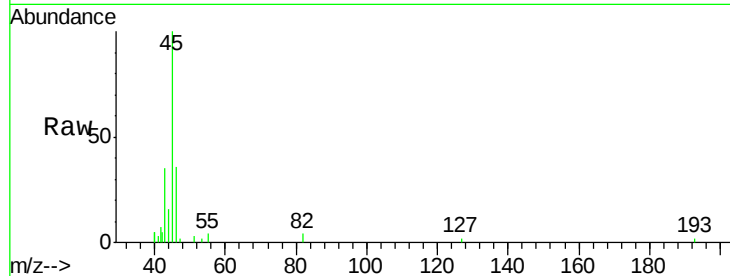
Ion 42.10 (41.80 to 42.80): VL0





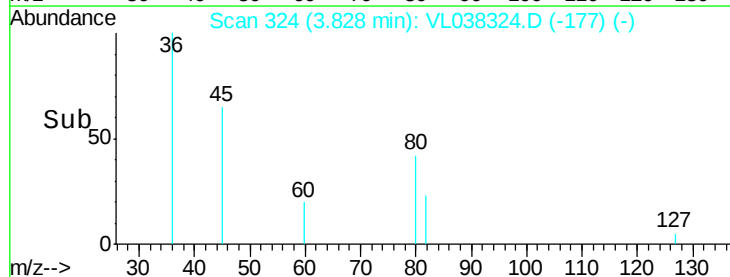
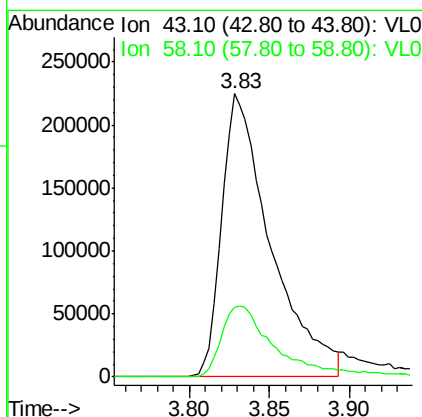
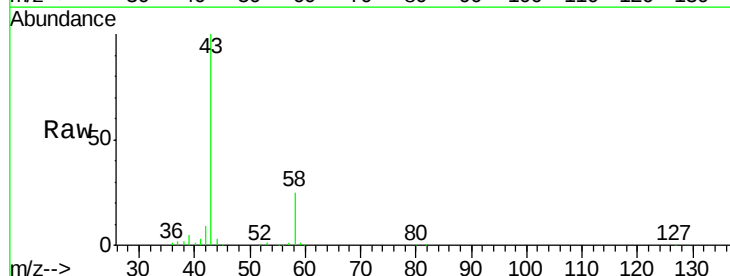
#13
Ethanol
Concen: 1.858 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Feb 2022 16:51

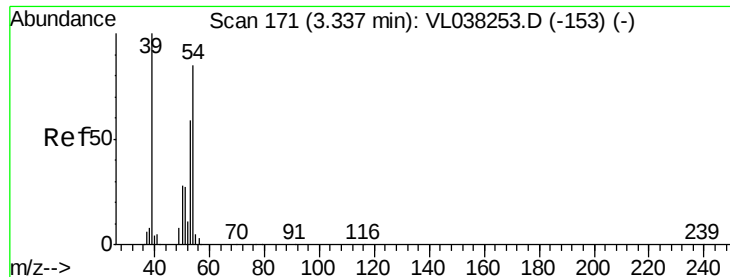
Tgt Ion: 45 Resp: 11911
Ion Ratio Lower Upper
45 100
46 68.2 15.4 61.6#



#15
Acetone
Concen: 5.778 ppbv
RT: 3.83 min Scan# 324
Delta R.T. -0.03 min
Lab File: VL038324.D
Acq: 1 Feb 2022 16:51

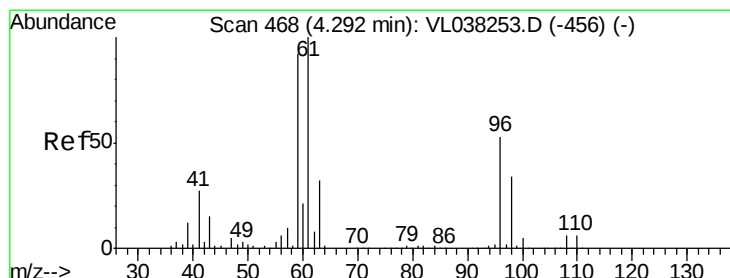
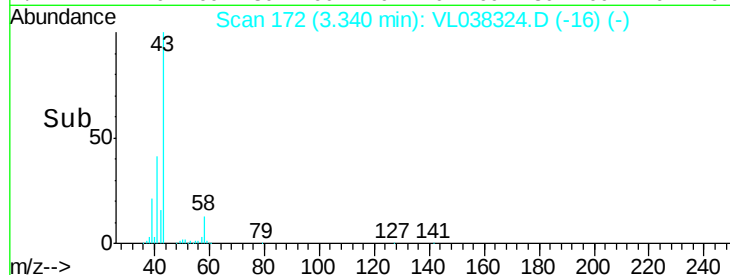
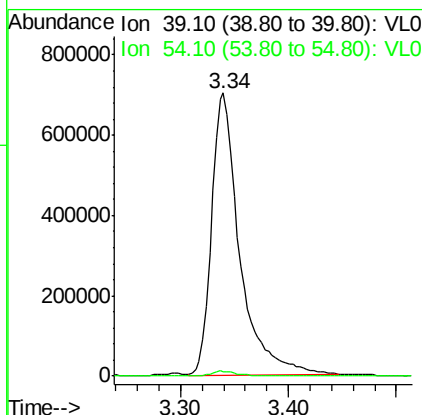
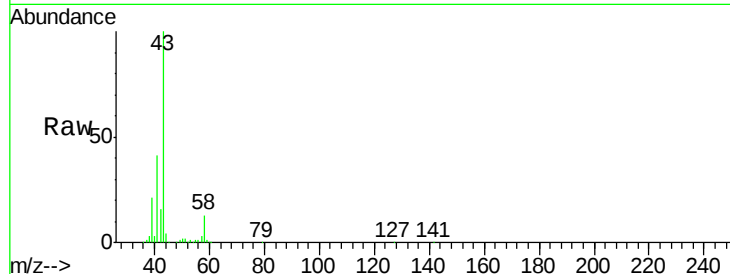
Tgt Ion: 43 Resp: 469360
Ion Ratio Lower Upper
43 100
58 28.2 21.5 32.3





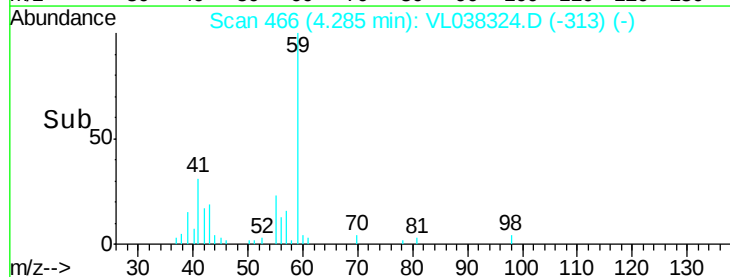
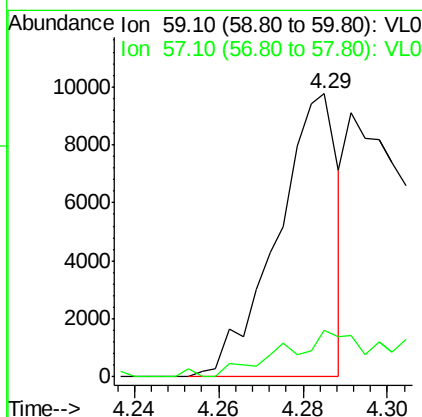
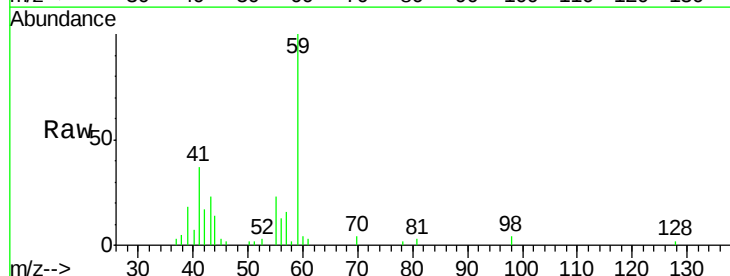
#16
 1,3-Butadiene
 Concen: 21.811 ppbv
 RT: 3.34
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVP-1DL
 Acq: 1 Feb 2022 16:51

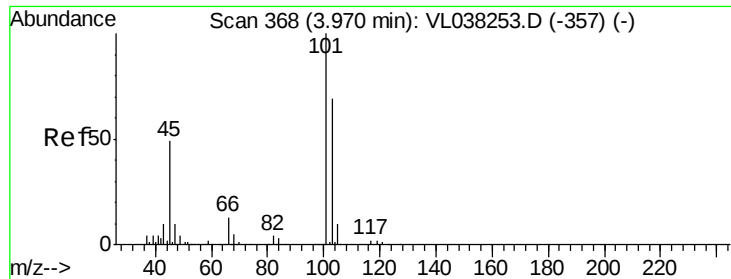
Tgt Ion: 39 Resp: 1271460
 Ion Ratio Lower Upper
 39 100
 54 1.9 62.6 94.0#



#17
 tert-Butyl alcohol
 Concen: 0.109 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. -0.01 min
 Lab File: VL038324.D
 Acq: 1 Feb 2022 16:51

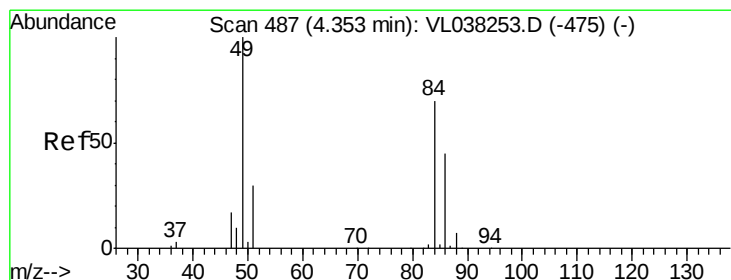
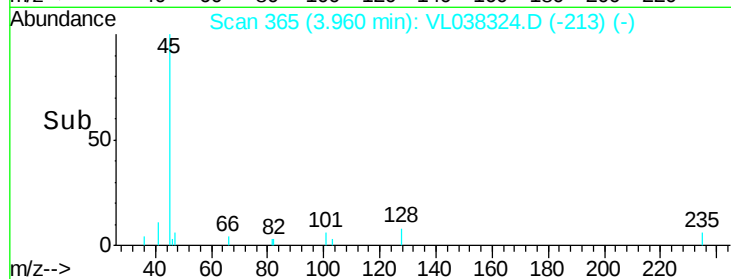
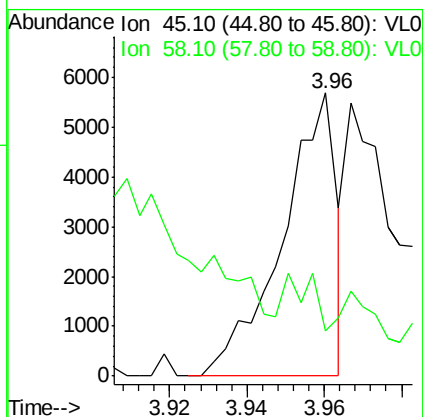
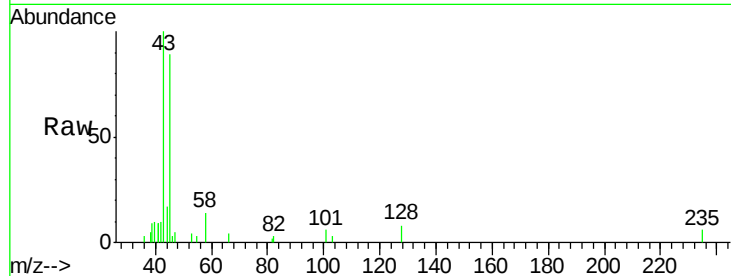
Tgt Ion: 59 Resp: 9701
 Ion Ratio Lower Upper
 59 100
 57 35.6 9.2 13.8#





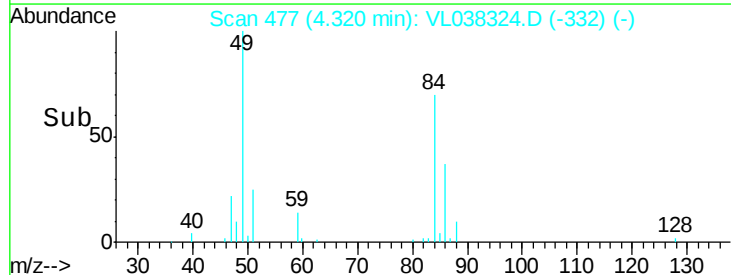
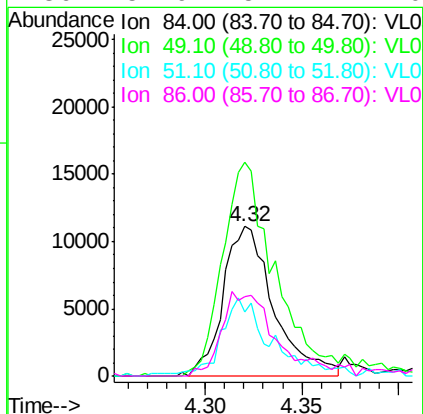
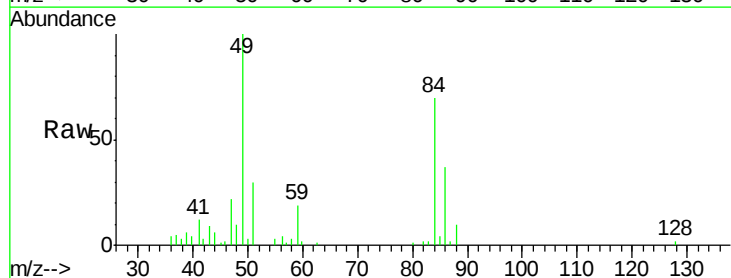
#19
Isopropyl Alcohol
Concen: 0.108 ppbv
RT: 3.96
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Feb 2022 16:51

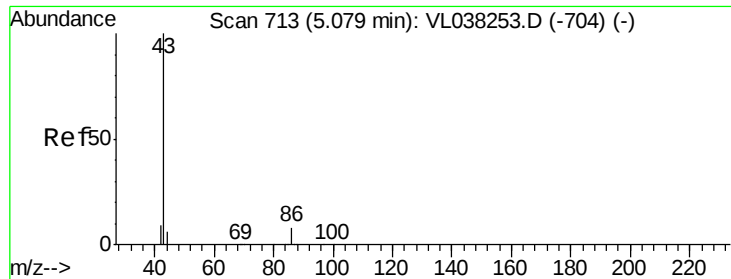
Tgt Ion: 45 Resp: 5496
Ion Ratio Lower Upper
45 100
58 0.0 2.3 3.5#



#20
Methylene Chloride
Concen: 0.426 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.03 min
Lab File: VL038324.D
Acq: 1 Feb 2022 16:51

Tgt Ion: 84 Resp: 20146
Ion Ratio Lower Upper
84 100
49 139.2 115.0 172.6
51 37.6 35.0 52.6
86 52.9 51.4 77.0





#23

Vinyl Acetate

Concen: 0.095 ppbv

RT: 5.03 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 1 Feb 2022 16:51

Tgt Ion: 43 Resp: 11279

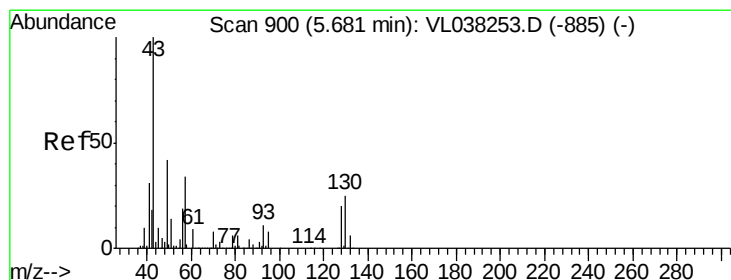
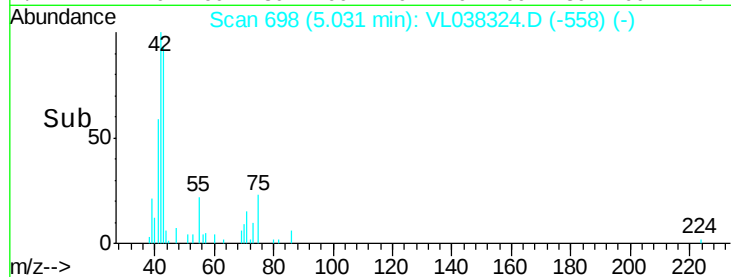
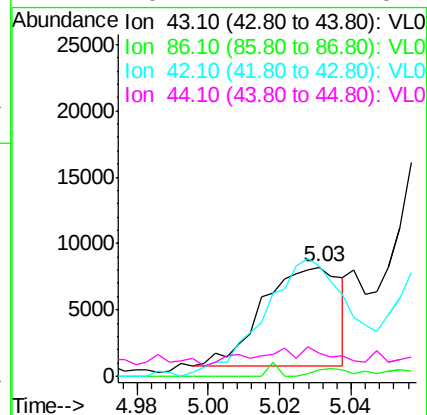
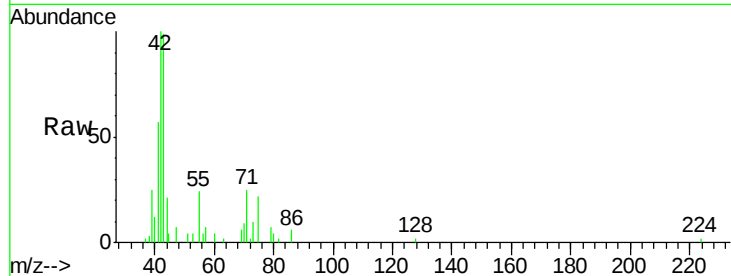
Ion Ratio Lower Upper

43 100

86 6.6 5.7 8.5

42 106.9 7.7 11.5#

44 9.7 4.2 6.4#



#25

Ethyl Acetate

Concen: 1.142 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.03 min

Lab File: VL038324.D

Acq: 1 Feb 2022 16:51

Tgt Ion: 43 Resp: 259793

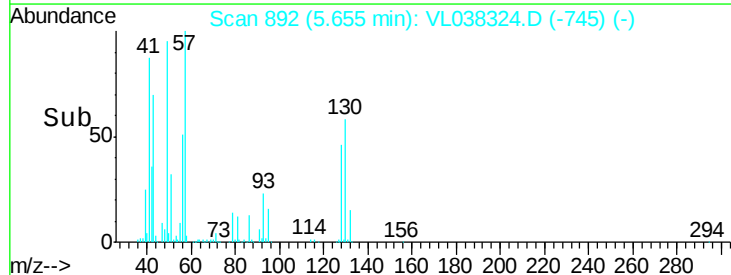
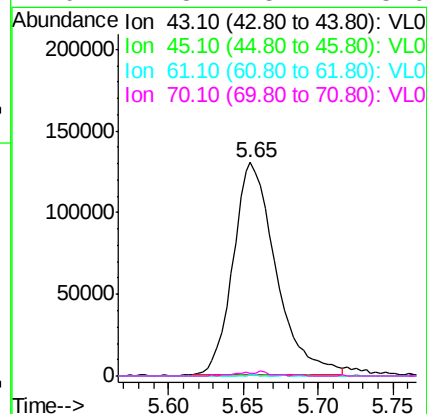
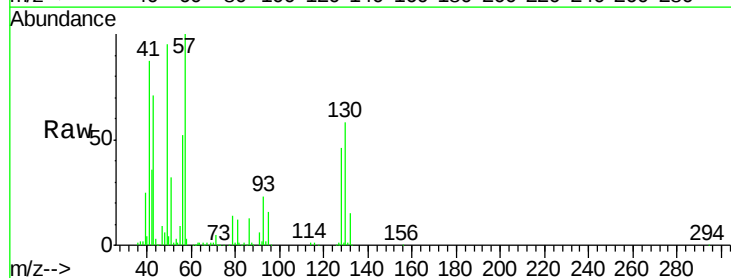
Ion Ratio Lower Upper

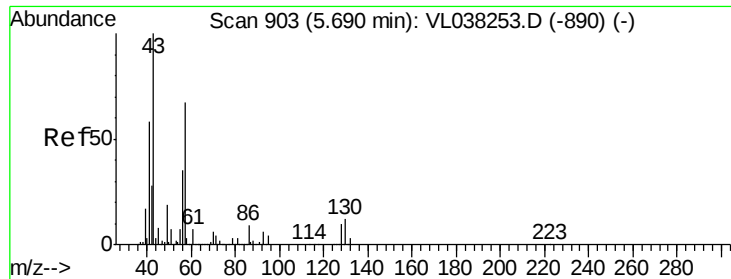
43 100

45 0.6 7.9 11.9#

61 0.4 7.8 11.8#

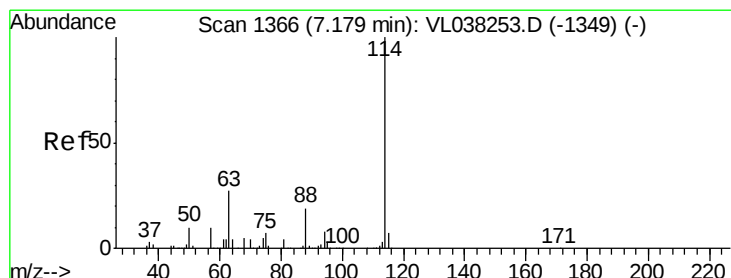
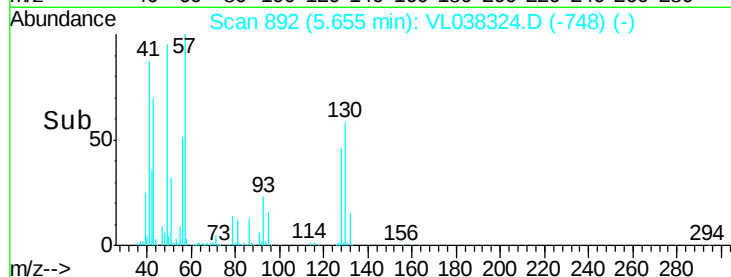
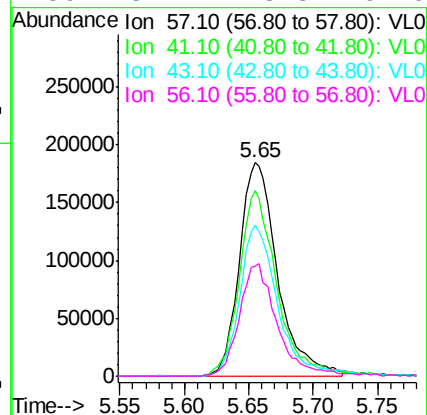
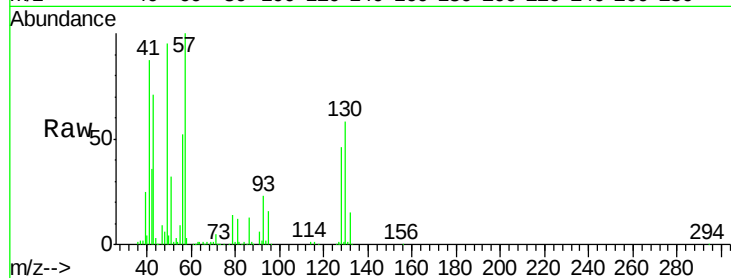
70 1.8 5.4 8.0#





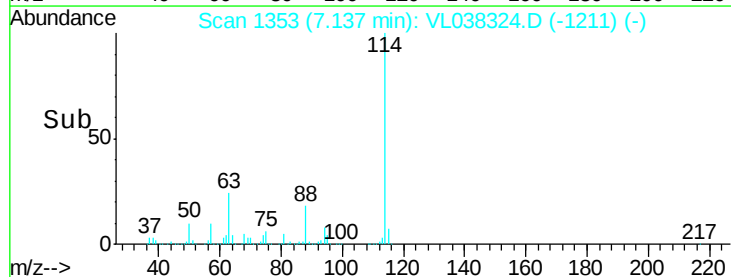
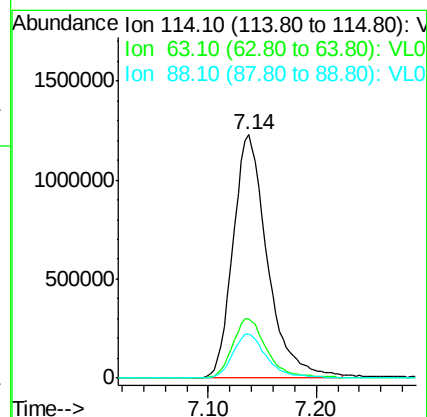
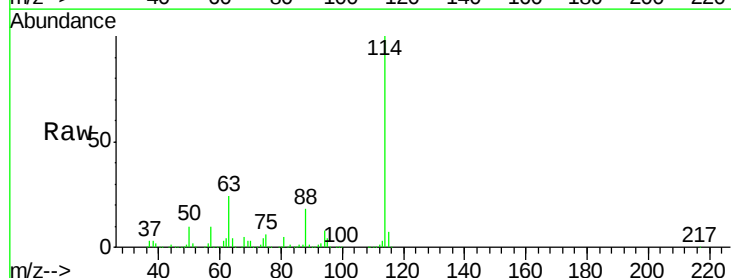
#26
Hexane
Concen: 3.586 ppbv
RT: 5.65
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Feb 2022 16:51

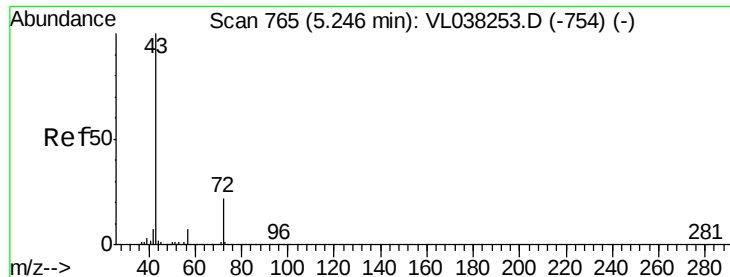
Tgt Ion: 57 Resp: 379363
Ion Ratio Lower Upper
57 100
41 86.9 72.8 109.2
43 71.9 177.0 265.6#
56 52.7 43.3 64.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.04 min
Lab File: VL038324.D
Acq: 1 Feb 2022 16:51

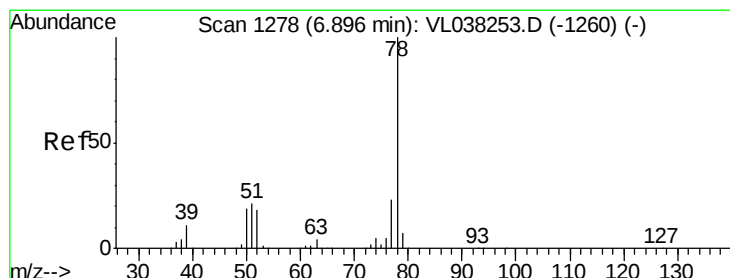
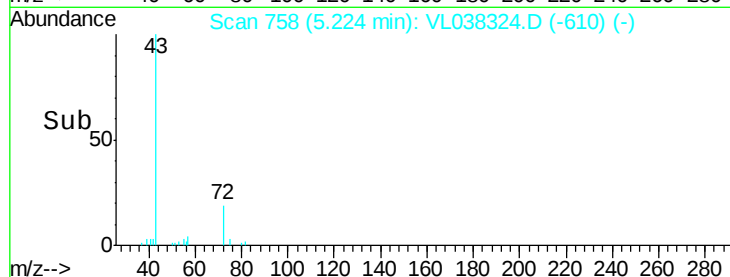
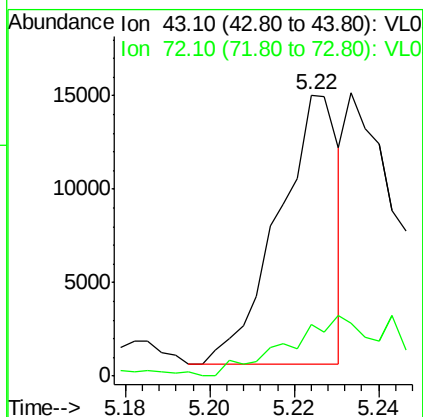
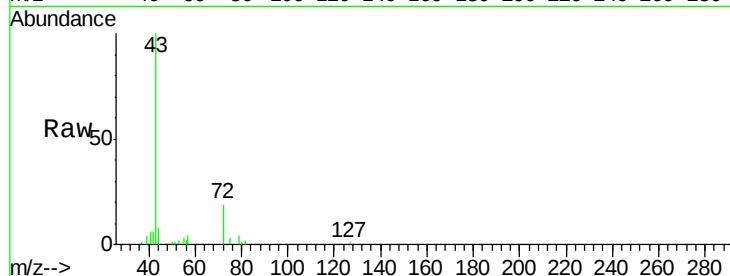
Tgt Ion: 114 Resp: 2736479
Ion Ratio Lower Upper
114 100
63 24.7 22.0 33.0
88 18.2 15.0 22.6





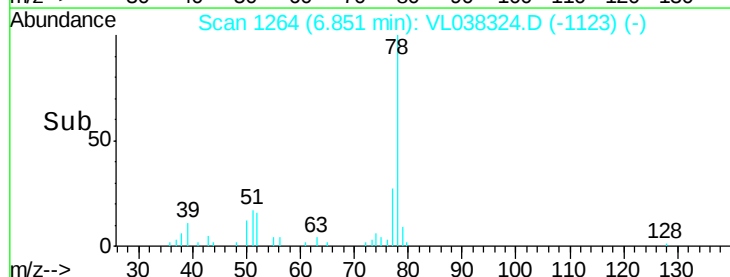
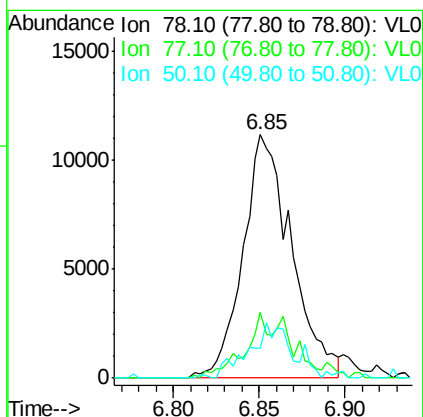
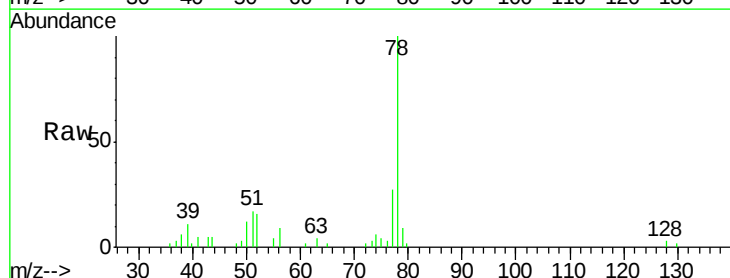
#34
 2-Butanone
 Concen: 0.160 ppbv
 RT: 5.22
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVP-1DL
 Acq: 1 Feb 2022 16:51

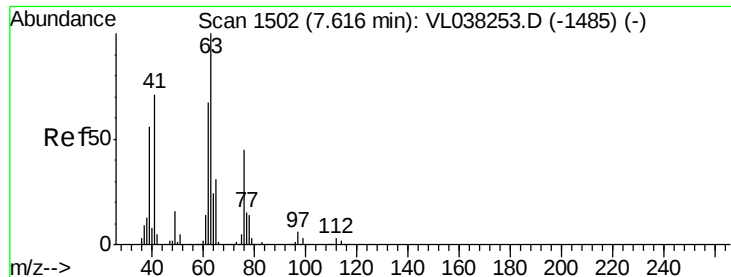
Tgt Ion: 43 Resp: 14337
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.1 27.1#



#36
 Benzene
 Concen: 0.091 ppbv
 RT: 6.85 min Scan# 1264
 Delta R.T. -0.05 min
 Lab File: VL038324.D
 Acq: 1 Feb 2022 16:51

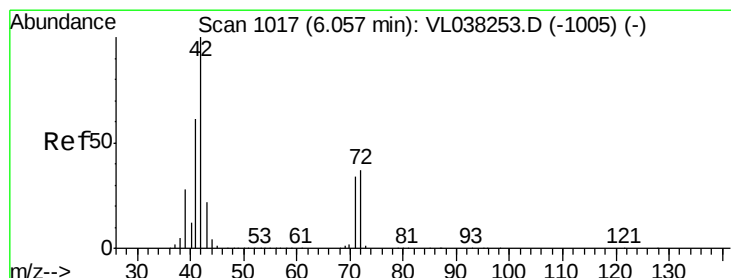
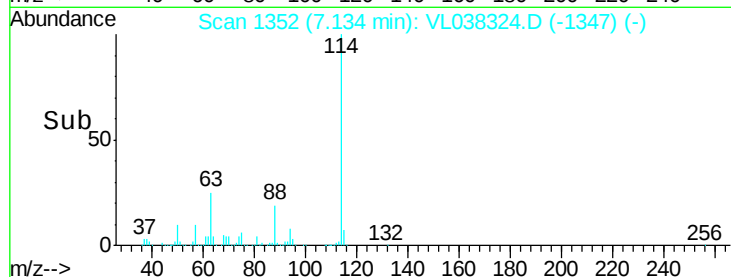
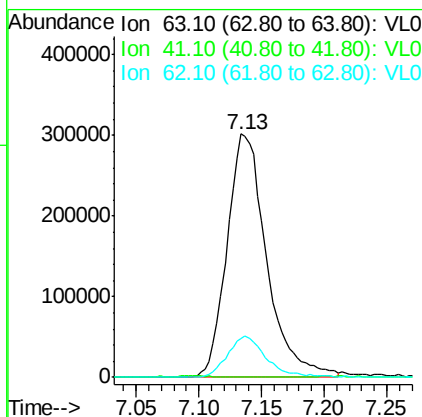
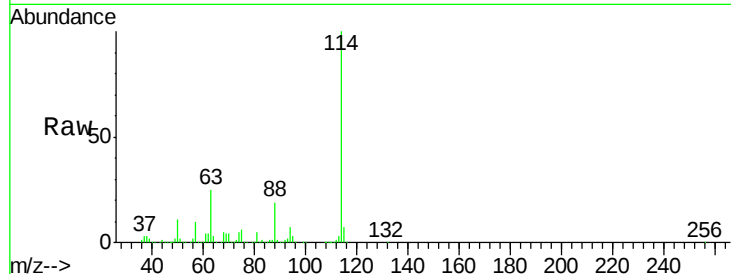
Tgt Ion: 78 Resp: 21935
 Ion Ratio Lower Upper
 78 100
 77 26.9 18.2 27.2
 50 12.3 15.1 22.7#





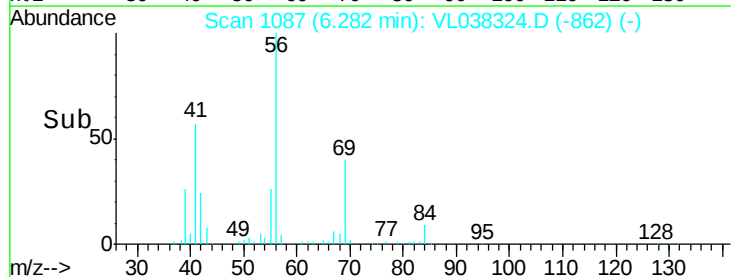
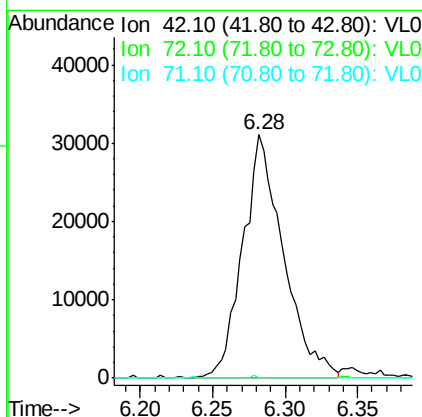
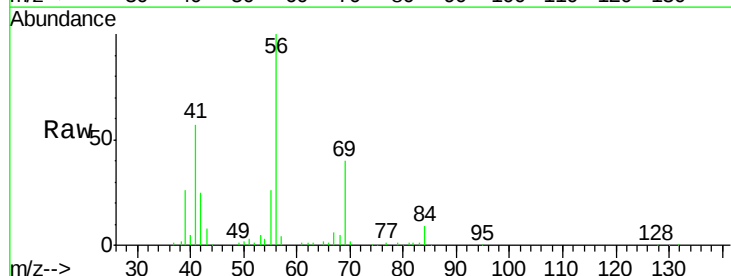
#39
 1,2-Dichloropropane
 Concen: 6.756 ppbv
 RT: 7.13
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVP-1DL
 Acq: 1 Feb 2022 16:51

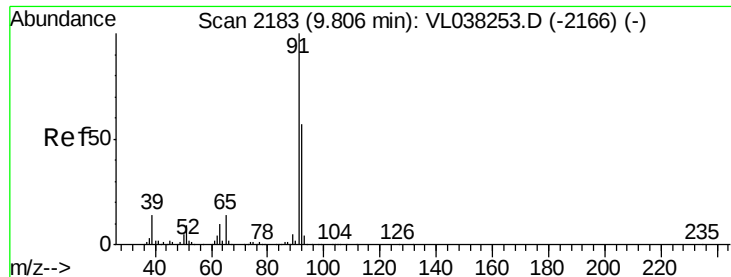
Tgt Ion: 63 Resp: 662977
 Ion Ratio Lower Upper
 63 100
 41 0.0 56.6 85.0#
 62 15.9 53.9 80.9#



#41
 Tetrahydrofuran
 Concen: 1.007 ppbv
 RT: 6.28 min Scan# 1087
 Delta R.T. 0.23 min
 Lab File: VL038324.D
 Acq: 1 Feb 2022 16:51

Tgt Ion: 42 Resp: 60579
 Ion Ratio Lower Upper
 42 100
 72 0.1 29.7 44.5#
 71 0.0 29.4 44.2#





#53

Toluene

Concen: 0.135 ppbv

RT: 9.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

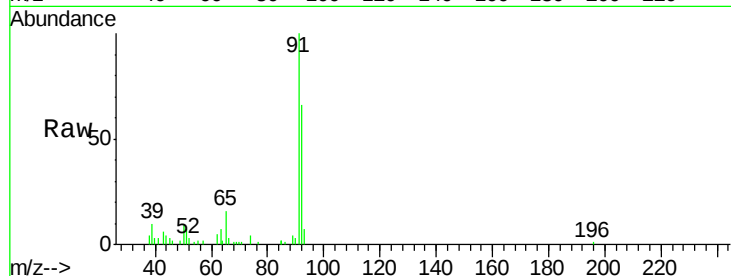
Acq: 1 Feb 2022 16:51 SVP-1DL

Tgt Ion: 91 Resp: 36255

Ion Ratio Lower Upper

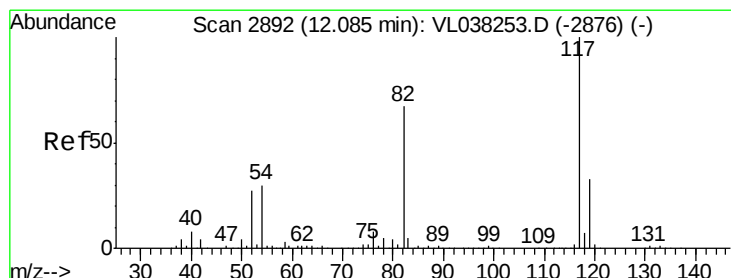
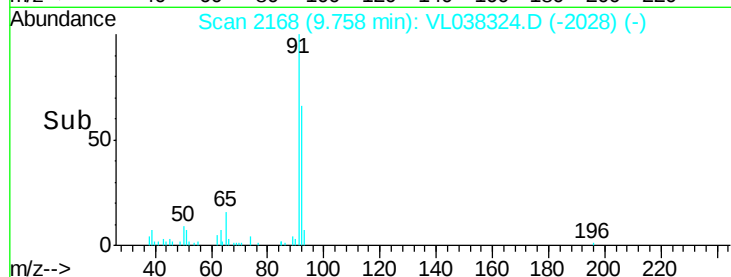
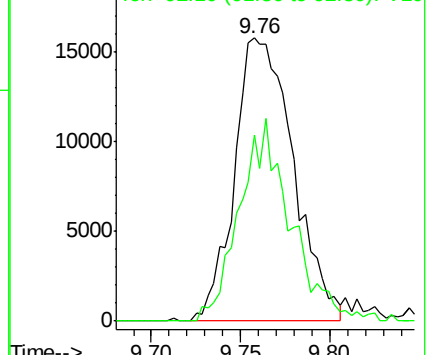
91 100

92 62.4 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.04 min Scan# 2877

Delta R.T. -0.05 min

Lab File: VL038324.D

Acq: 1 Feb 2022 16:51

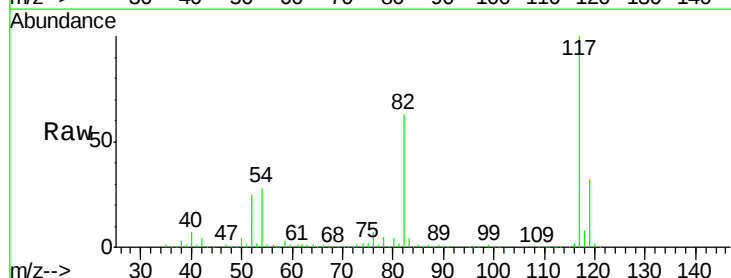
Tgt Ion: 117 Resp: 2363464

Ion Ratio Lower Upper

117 100

82 67.8 54.4 81.6

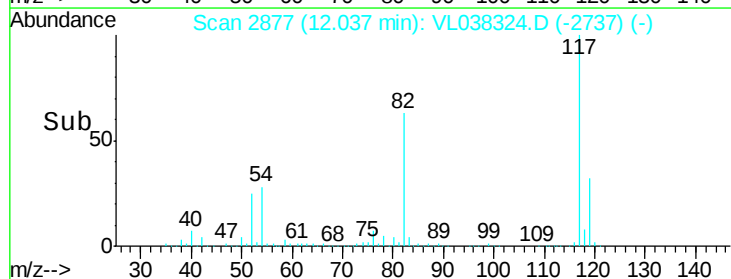
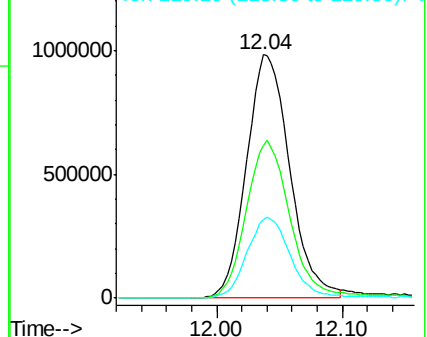
119 34.6 45.9 68.9#

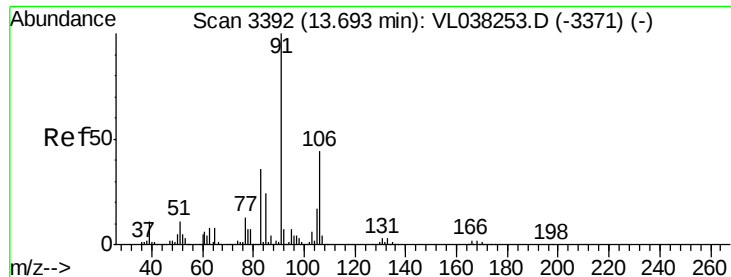


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

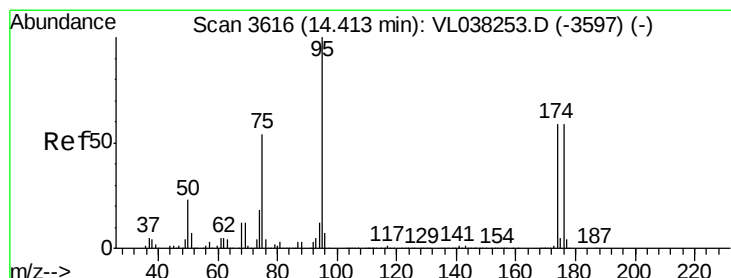
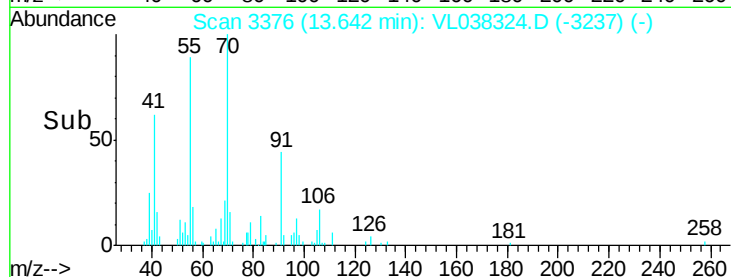
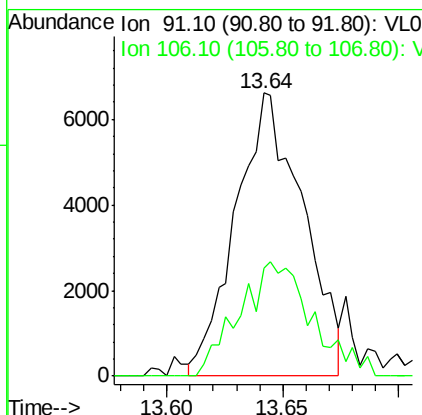
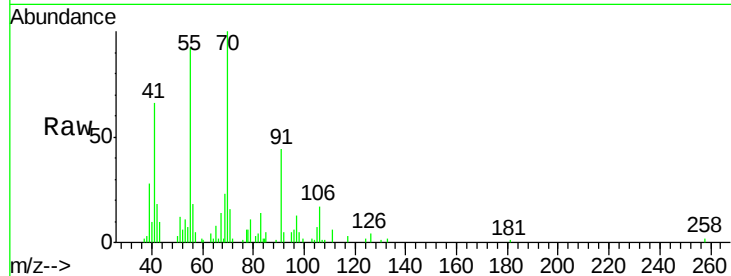
Ion 119.10 (118.80 to 119.80): V





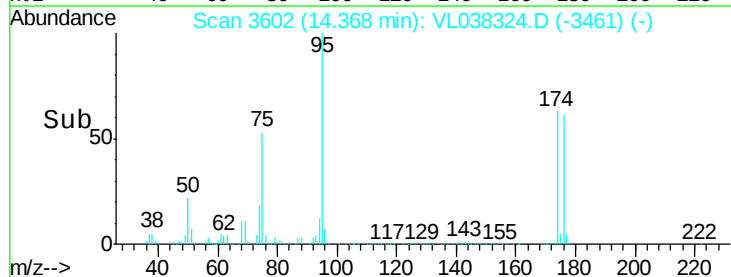
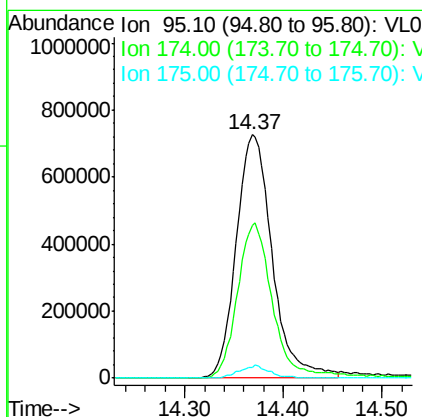
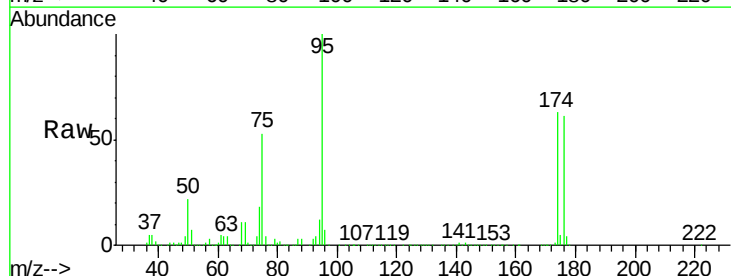
#60
o-Xylene
Concen: 0.048 ppbv
RT: 13.64 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Feb 2022 16:51

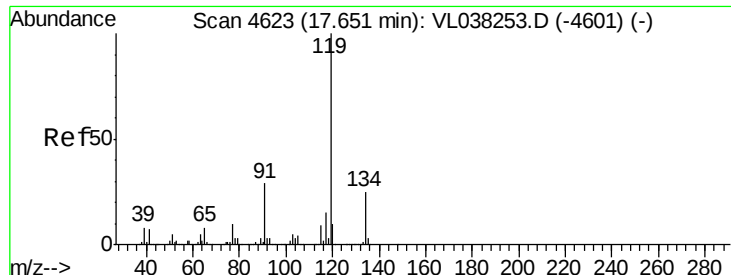
Tgt Ion: 91 Resp: 13339
Ion Ratio Lower Upper
91 100
106 43.7 22.2 66.6



#68
1-Bromo-4-Fluorobenzene
Concen: 10.267 ppbv
RT: 14.37 min Scan# 3602
Delta R.T. -0.05 min
Lab File: VL038324.D
Acq: 1 Feb 2022 16:51

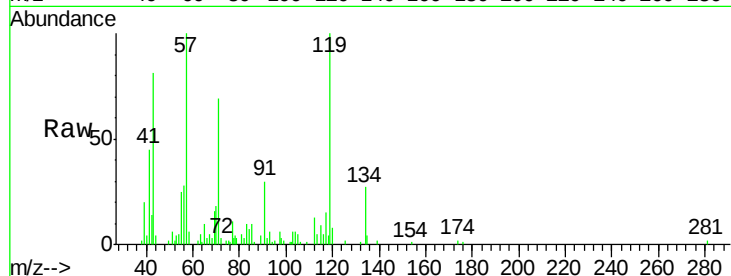
Tgt Ion: 95 Resp: 1841822
Ion Ratio Lower Upper
95 100
174 63.0 48.3 72.5
175 4.6 3.5 5.3





#69
 p-Isopropyltoluene
 Concen: 0.069 ppbv
 RT: 17.60
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SVP-1DL
 Acq: 1 Feb 2022 10:51

Tgt Ion: 119 Resp: 22265
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.2 30.2#
 91 0.0 23.2 34.8#



Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

