

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033022\
 Data File : VL038804.D
 Acq On : 30 Mar 2022 21:22
 Operator : SY/AP
 Sample : N2169-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 31 04:14:19 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	774710	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2331145	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2098750	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1492649	9.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	238677	2.292	ppbv	99
3) Chlorodifluoromethane	2.99	51	23643	0.289	ppbv #	84
4) Chloromethane	3.14	50	20857	0.464	ppbv	96
7) Chloroethane	3.56	64	7284	0.482	ppbv	96
9) Propene	3.01	41	450640	11.408	ppbv	93
10) Heptane	8.12	43	323293	3.424	ppbv	96
11) Trichlorofluoromethane	3.95	101	24539	0.267	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4673	0.066	ppbv #	74
13) Ethanol	3.60	45	254019	58.295	ppbv	99
15) Acetone	3.84	43	1599489	23.927	ppbv	89
16) 1,3-Butadiene	3.31	39	357863	9.433	ppbv #	36
17) tert-Butyl alcohol	4.29	59	162877	2.790	ppbv	95
19) Isopropyl Alcohol	3.97	45	44907	1.212	ppbv #	1
20) Methylene Chloride	4.35	84	72731	2.583	ppbv	96
21) Allyl Chloride	4.39	41	7846	0.163	ppbv #	1
23) Vinyl Acetate	5.10	43	43549	0.673	ppbv #	48
25) Ethyl Acetate	5.68	43	1512753	8.990	ppbv #	78
26) Hexane	5.68	57	2064958	27.410	ppbv #	26
27) Carbon Disulfide	4.55	76	337087	4.561	ppbv	100
28) Methyl tert-Butyl Ether	5.03	73	85839	1.530	ppbv	97
29) Chloroform	5.75	83	20842	0.173	ppbv	95
30) Cyclohexane	7.13	84	29016	0.443	ppbv #	1
32) 1,1,1-Trichloroethane	6.51	97	38492	0.331	ppbv	99
34) 2-Butanone	5.24	43	1479267	16.033	ppbv	99
36) Benzene	6.88	78	408956	2.273	ppbv	97
39) 1,2-Dichloropropane	7.17	63	502179	7.140	ppbv #	29
41) Tetrahydrofuran	6.32	42	11486	0.167	ppbv #	39
43) Methyl Methacrylate	7.98	69	8474	0.127	ppbv #	1
44) 2,2,4-Trimethylpentane	7.86	57	125211	0.415	ppbv #	44
50) 4-Methyl-2-Pentanone	8.74	43	7870	0.046	ppbv #	38
51) 2-Hexanone	10.12	43	794981	6.452	ppbv #	99
52) Tetrachloroethene	11.21	164	497629	7.558	ppbv	96
53) Toluene	9.80	91	1292180	6.684	ppbv	99
58) Ethyl Benzene	12.70	91	357295	1.456	ppbv	96
59) m/p-Xylene	12.96	91	1102513	5.137	ppbv	94
60) o-Xylene	13.68	91	508672	2.496	ppbv	95
61) Styrene	13.52	104	11100	0.100	ppbv #	27
62) Isopropylbenzene	14.65	105	218961	0.715	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.68	83	12312	0.078	ppbv #	51
64) n-propylbenzene	15.55	120	9870	0.123	ppbv #	1
69) p-Isopropyltoluene	17.64	119	18678	0.058	ppbv #	48

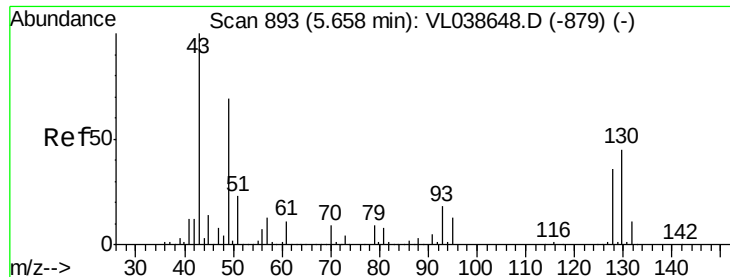
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033022\
Data File : VL038804.D
Acq On : 30 Mar 2022 21:22
Operator : SY/AP
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Quant Time: Mar 31 04:14:19 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.83	105	58444	0.243	ppbv #	94
73) 1,3,5-Trimethylbenzene	15.98	105	63698	0.291	ppbv	92
74) 1,2,4-Trimethylbenzene	16.75	105	146465	0.613	ppbv #	71
79) Naphthalene	22.17	128	8602	0.047	ppbv	98
80) Naphthalene,2-methyl-	24.97	142	2244	0.046	ppbv #	32

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 21:22

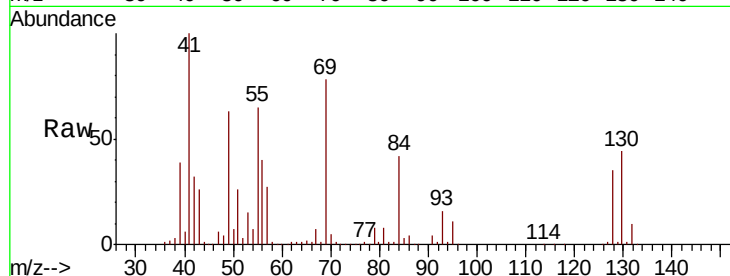
Tot Ion: 49 Resp: 774710

Ion Ratio Lower Upper

49 100

128 55.1 26.2 78.6

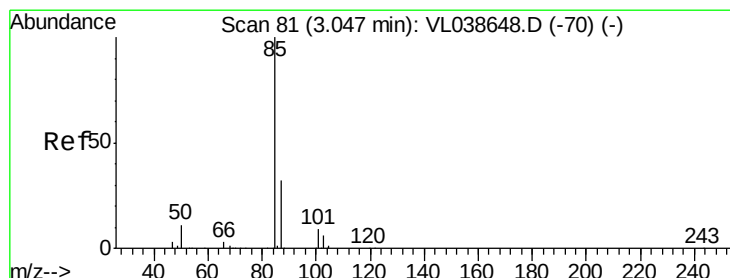
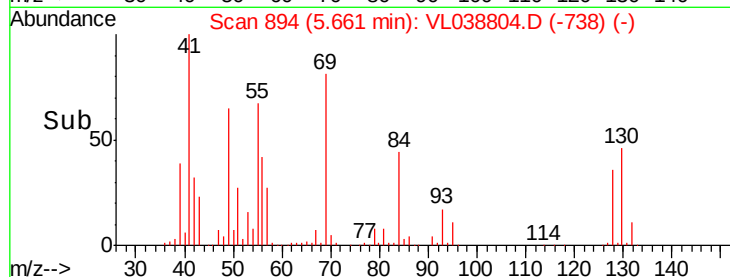
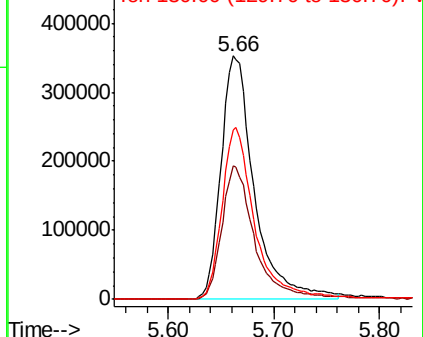
130 70.3 33.7 101.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 2.292 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038804.D

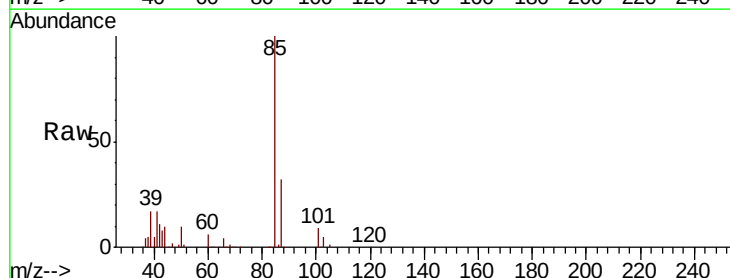
Acq: 30 Mar 2022 21:22

Tgt Ion: 85 Resp: 238677

Ion Ratio Lower Upper

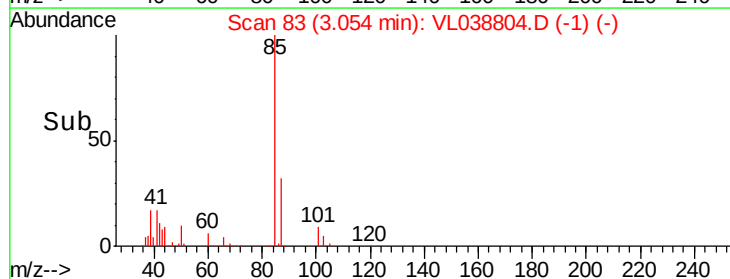
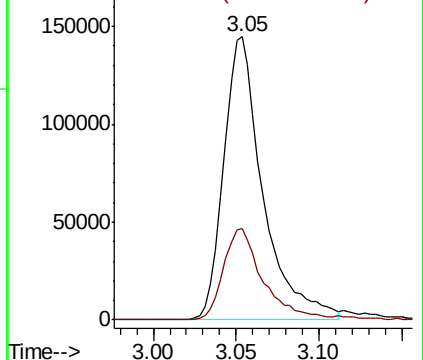
85 100

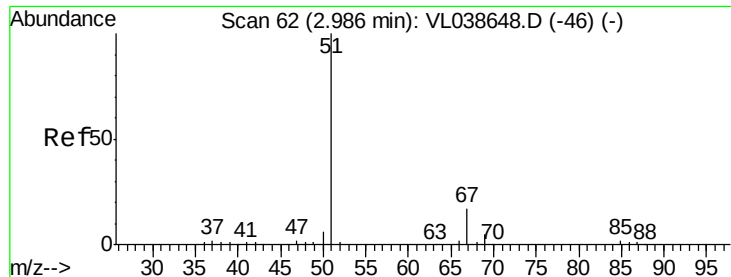
87 32.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.289 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

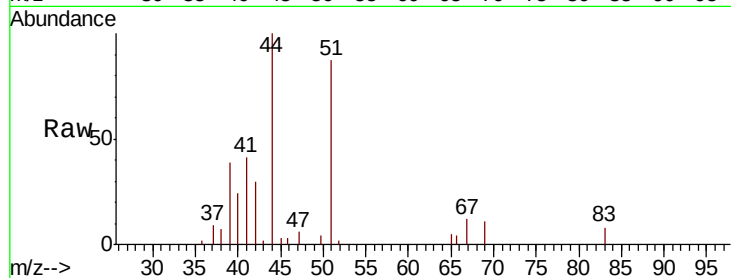
Acq: 30 Mar 2022 21:22

Tot Ion: 51 Resp: 23643

Ion Ratio Lower Upper

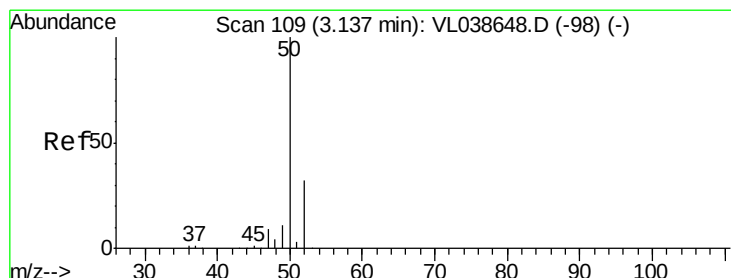
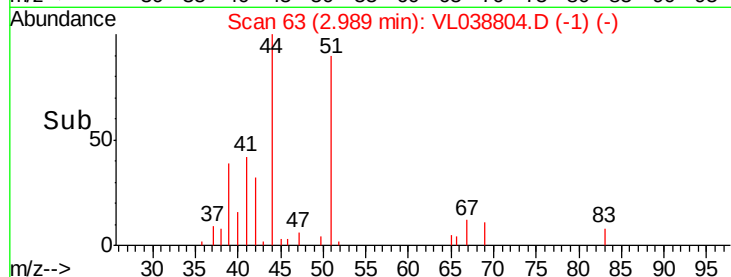
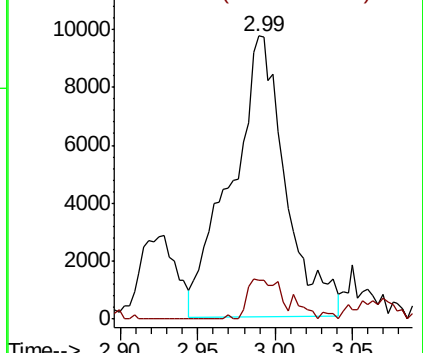
51 100

67 10.7 14.1 21.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.464 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL038804.D

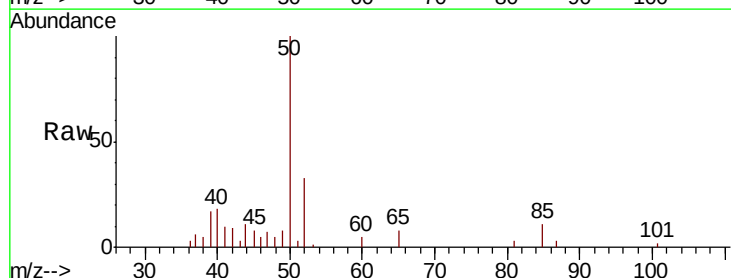
Acq: 30 Mar 2022 21:22

Tgt Ion: 50 Resp: 20857

Ion Ratio Lower Upper

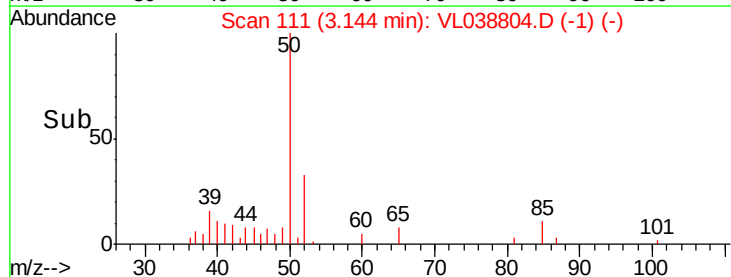
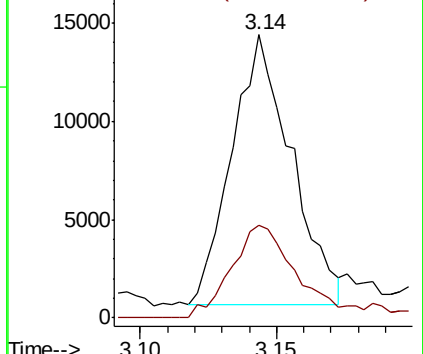
50 100

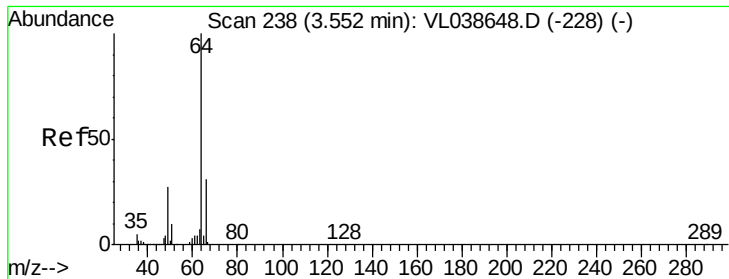
52 34.4 25.5 38.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.482 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

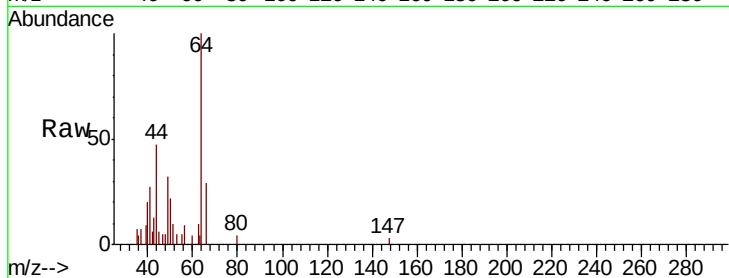
Acq: 30 Mar 2022 21:22

Tot Ion: 64 Resp: 7284

Ion Ratio Lower Upper

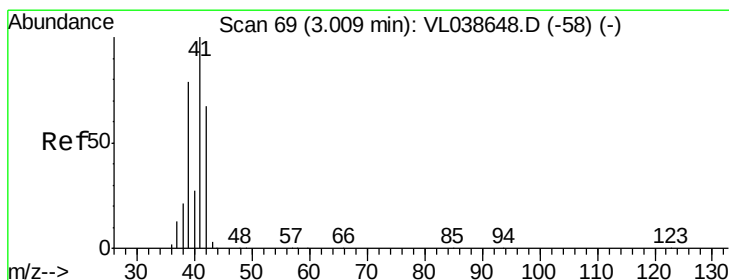
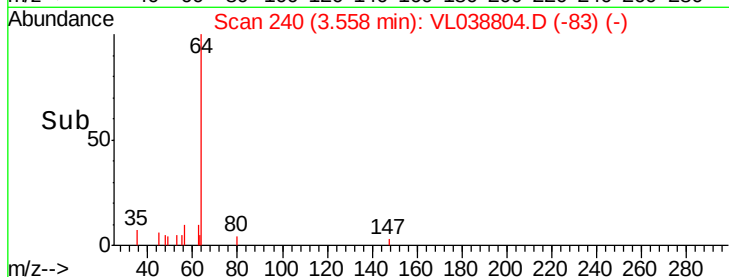
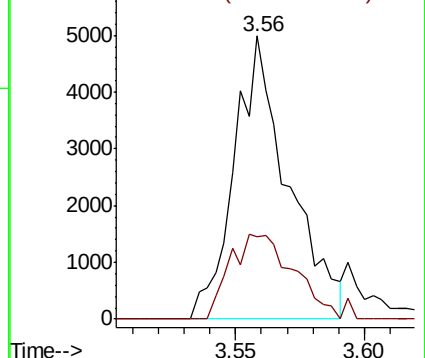
64 100

66 29.3 25.0 37.6



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 11.408 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL038804.D

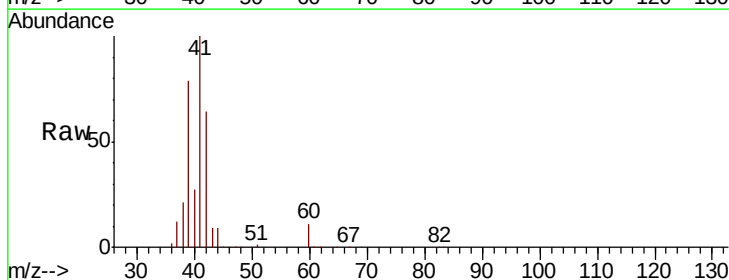
Acq: 30 Mar 2022 21:22

Tgt Ion: 41 Resp: 450640

Ion Ratio Lower Upper

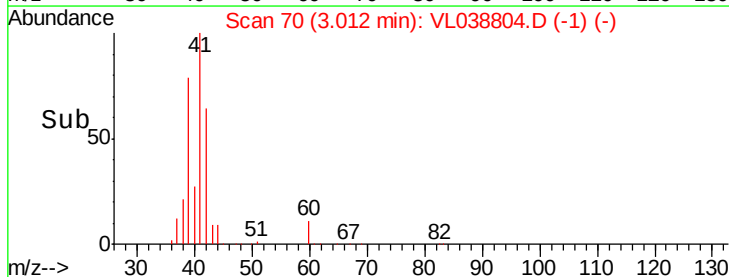
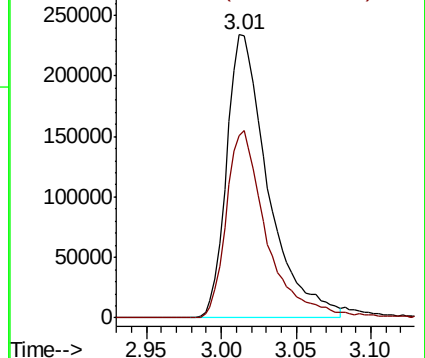
41 100

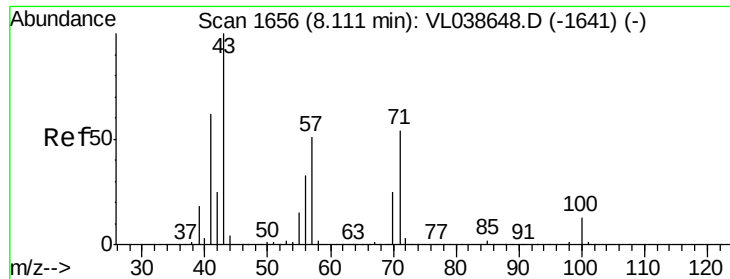
42 65.0 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

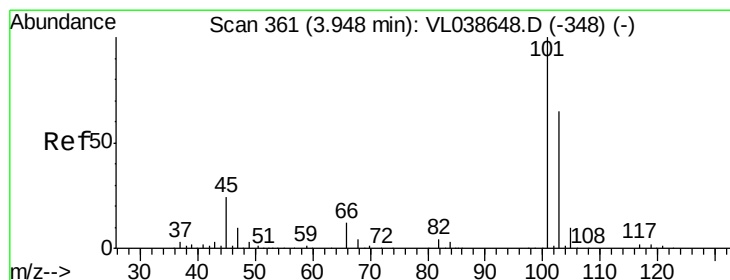
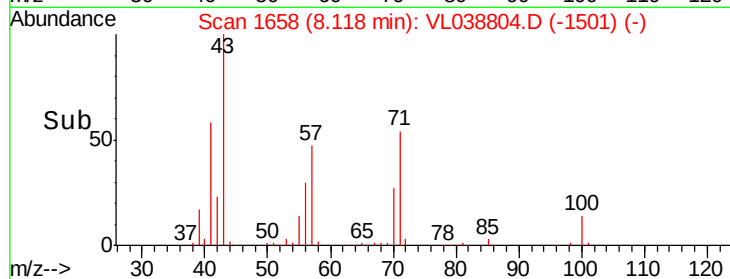
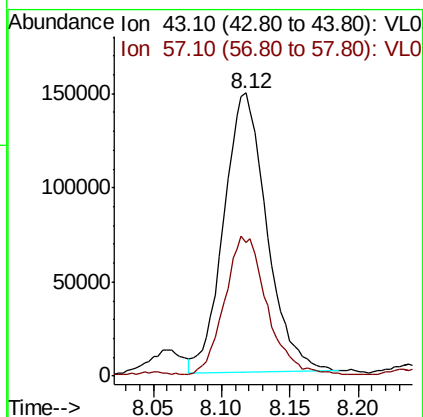
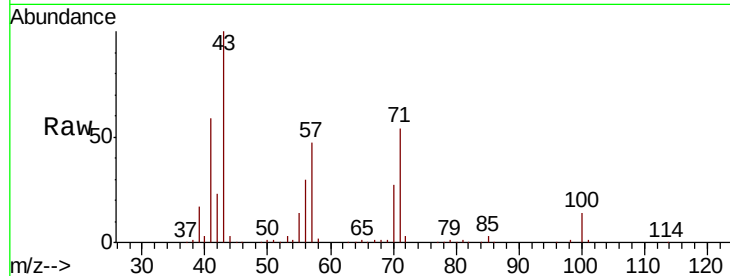
Ion 42.10 (41.80 to 42.80): VL0





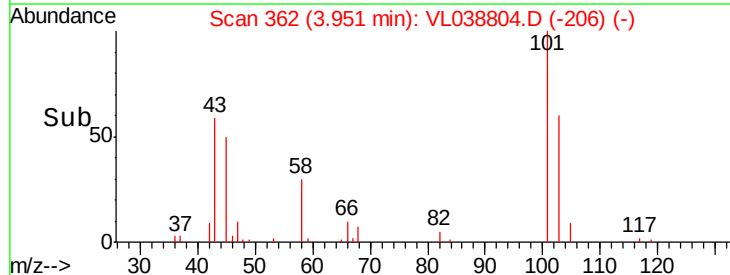
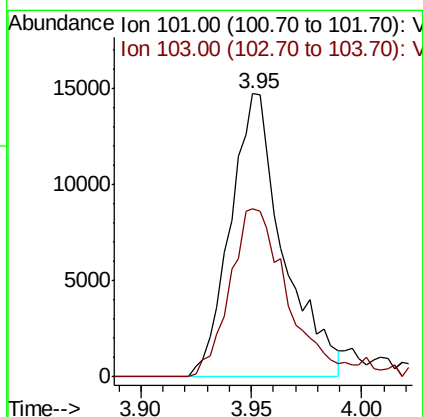
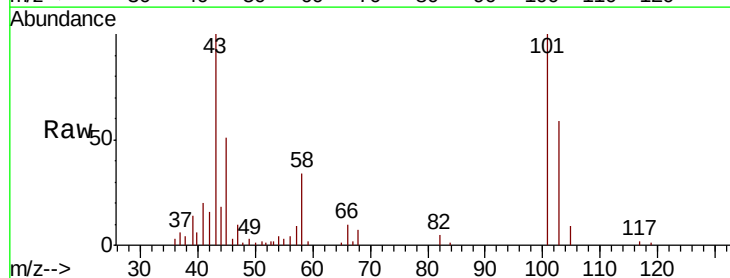
#10
 Heptane
 Concen: 3.424 ppbv
 RT: 8.12
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 30 Mar 2022 21:22

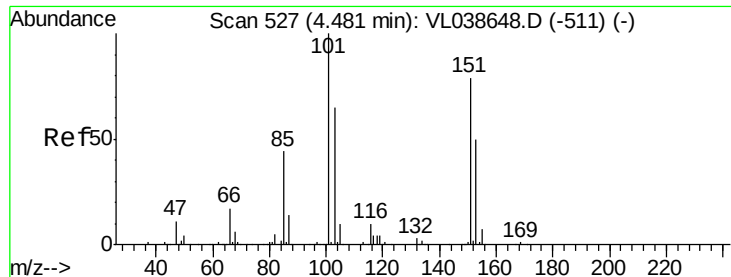
Tot Ion: 43 Resp: 323293
 Ion Ratio Lower Upper
 43 100
 57 49.1 41.4 62.2



#11
 Trichlorofluoromethane
 Concen: 0.267 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.00 min
 Lab File: VL038804.D
 Acq: 30 Mar 2022 21:22

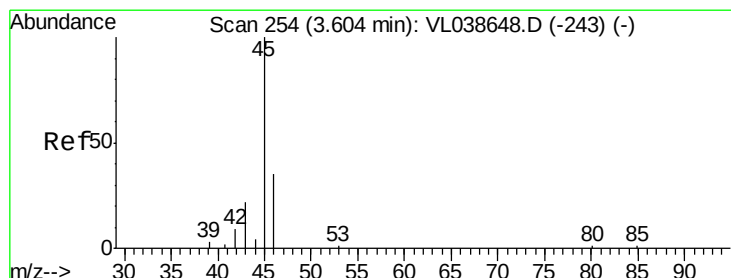
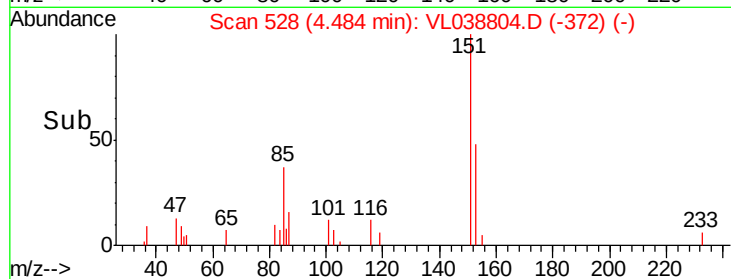
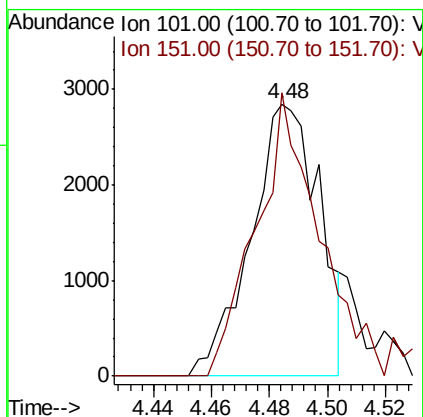
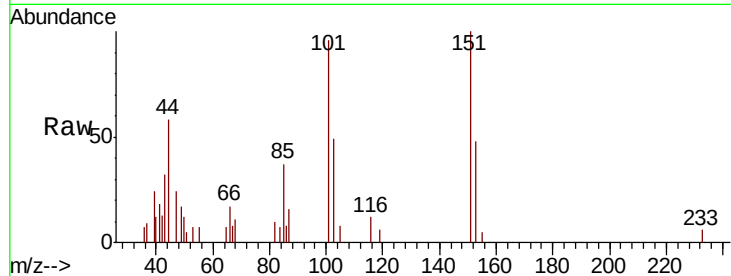
Tgt Ion:101 Resp: 24539
 Ion Ratio Lower Upper
 101 100
 103 59.6 51.9 77.9





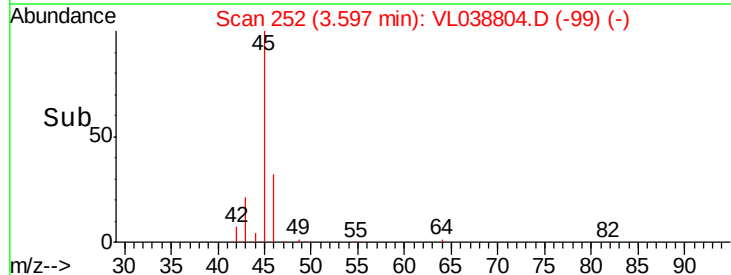
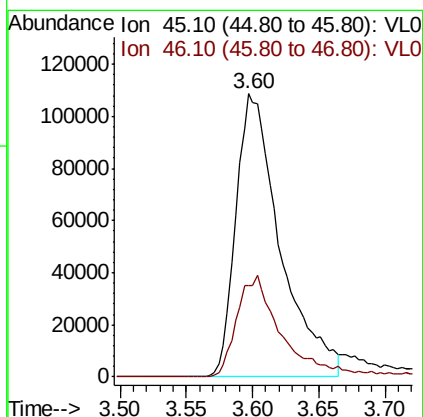
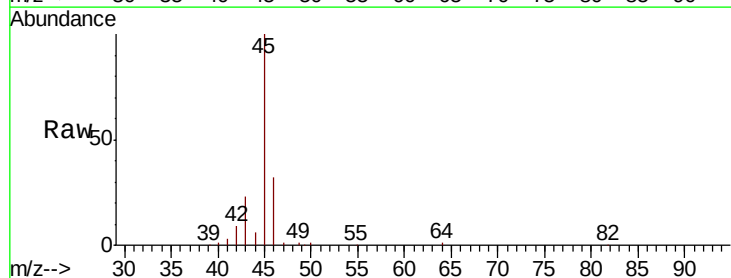
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.066 ppbv
 RT: 4.48 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 21:22

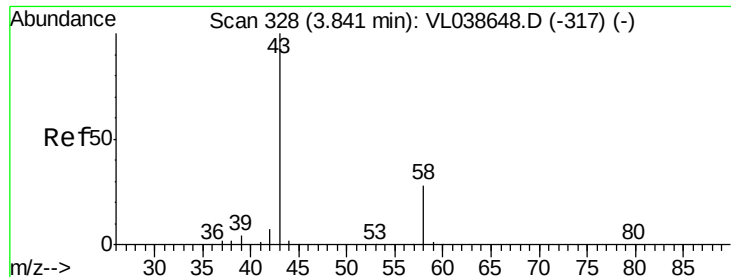
Tot Ion: 101 Resp: 4673
 Ion Ratio Lower Upper
 101 100
 151 101.0 62.9 94.3#



#13
 Ethanol
 Concen: 58.295 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. -0.01 min
 Lab File: VL038804.D
 Acq: 30 Mar 2022 21:22

Tgt Ion: 45 Resp: 254019
 Ion Ratio Lower Upper
 45 100
 46 37.3 15.1 60.5





#15

Acetone

Concen: 23.927 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

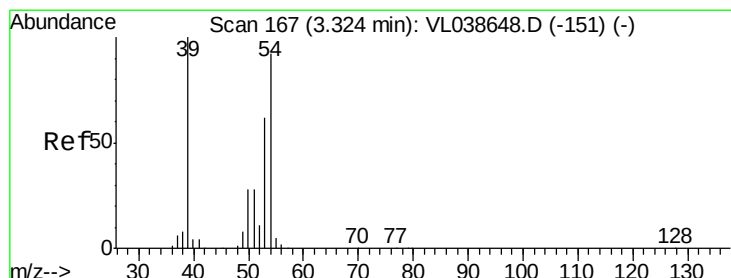
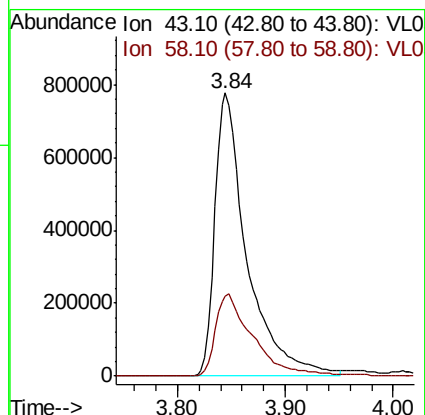
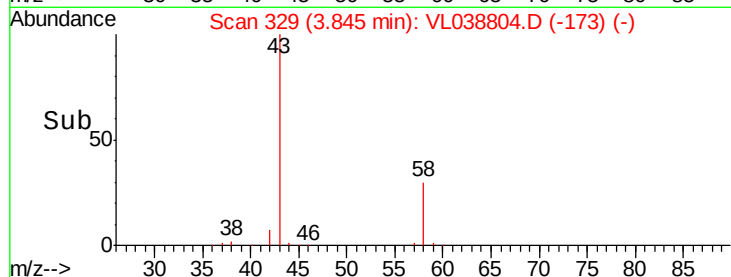
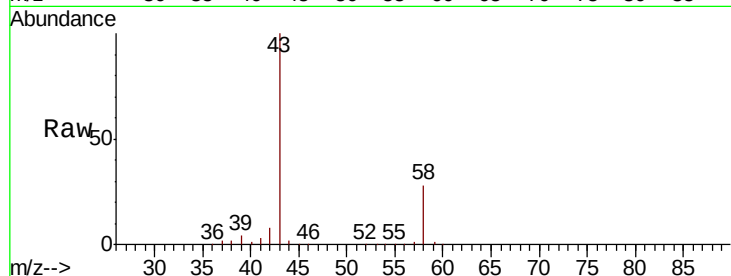
Acq: 30 Mar 2022 21:22

Tot Ion: 43 Resp: 1599489

Ion Ratio Lower Upper

43 100

58 34.9 23.3 34.9



#16

1,3-Butadiene

Concen: 9.433 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL038804.D

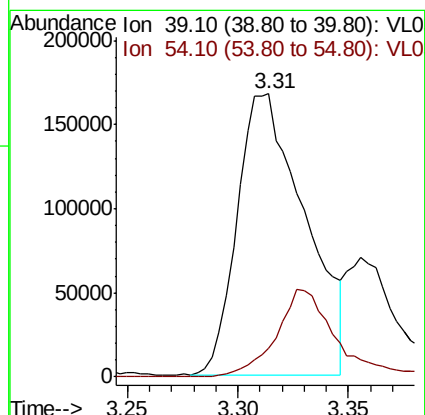
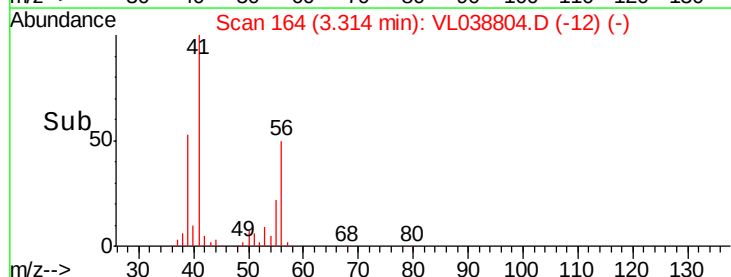
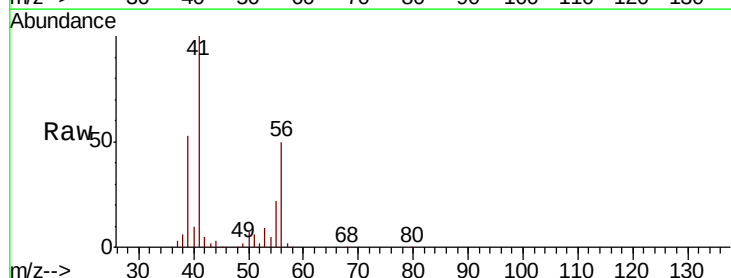
Acq: 30 Mar 2022 21:22

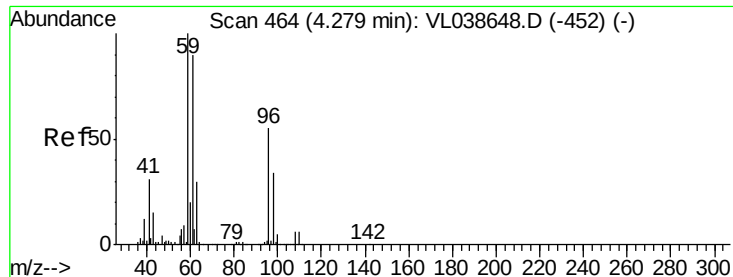
Tgt Ion: 39 Resp: 357863

Ion Ratio Lower Upper

39 100

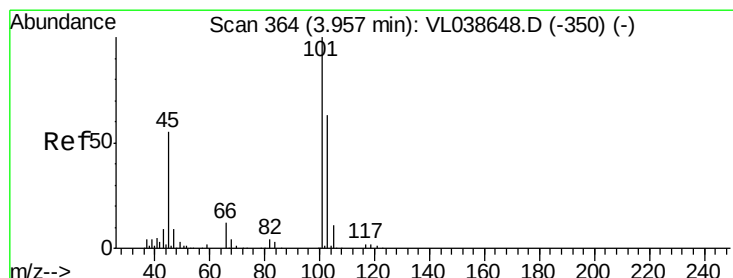
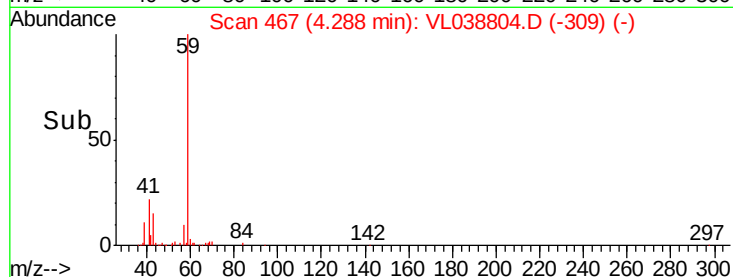
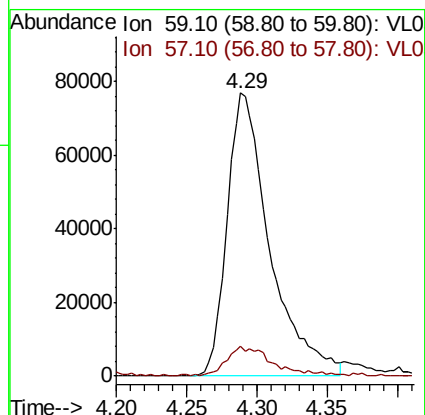
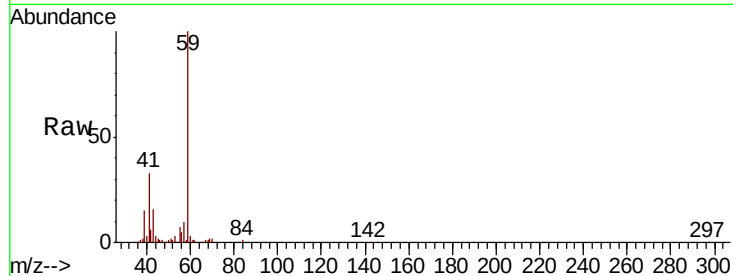
54 27.9 69.1 103.7#





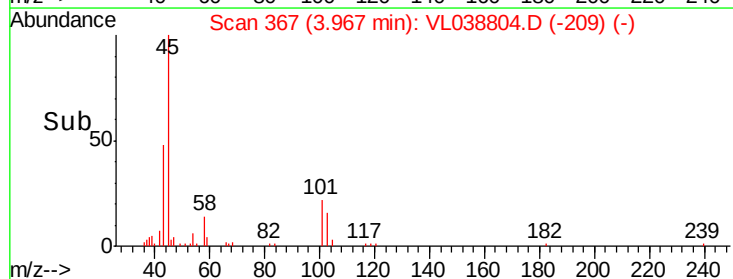
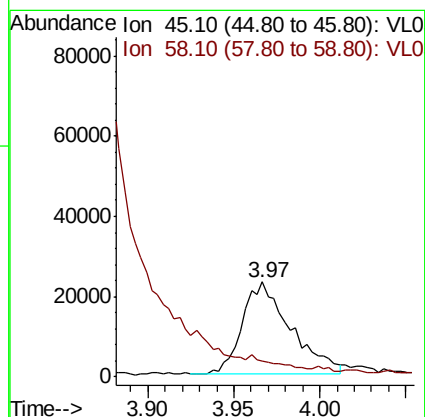
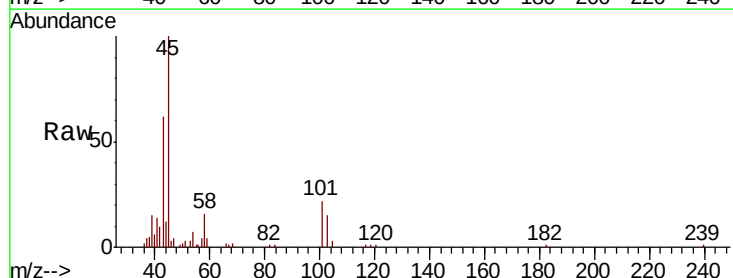
#17
 tert-Butyl alcohol
 Concen: 2.790 ppbv
 RT: 4.29
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 21:22

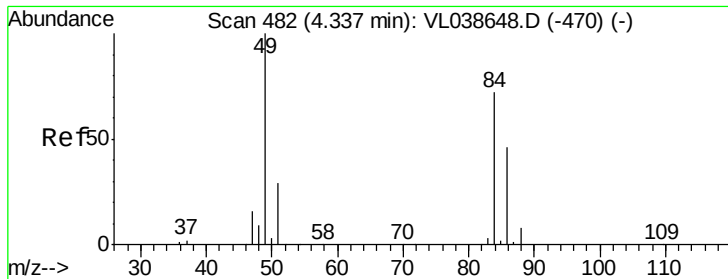
Tot Ion: 59 Resp: 162877
 Ion Ratio Lower Upper
 59 100
 57 12.1 8.2 12.2



#19
 Isopropyl Alcohol
 Concen: 1.212 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T.: 0.01 min
 Lab File: VL038804.D
 Acq: 30 Mar 2022 21:22

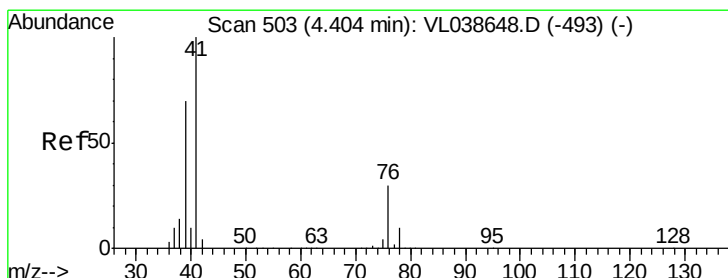
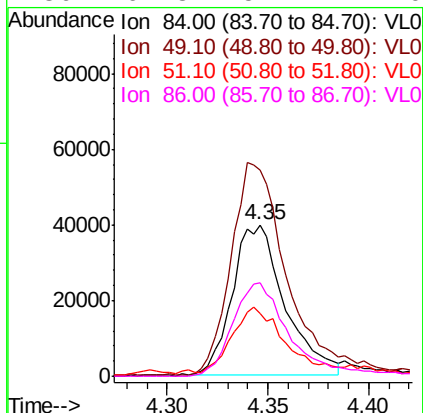
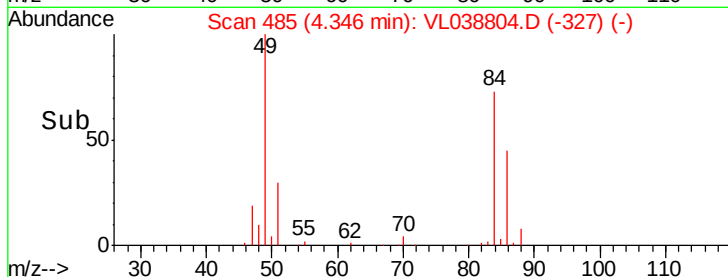
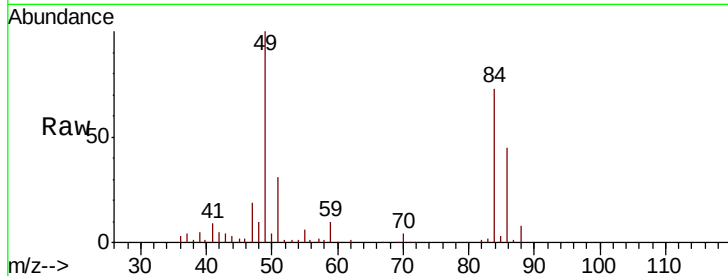
Tgt Ion: 45 Resp: 44907
 Ion Ratio Lower Upper
 45 100
 58 1241.8 2.3 3.5#





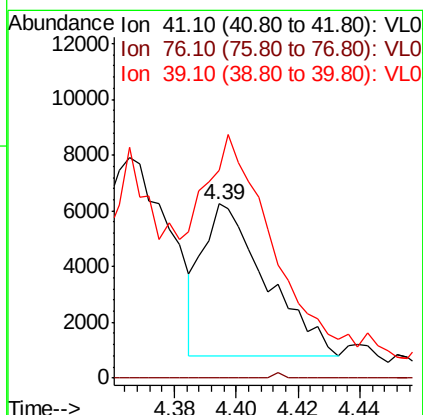
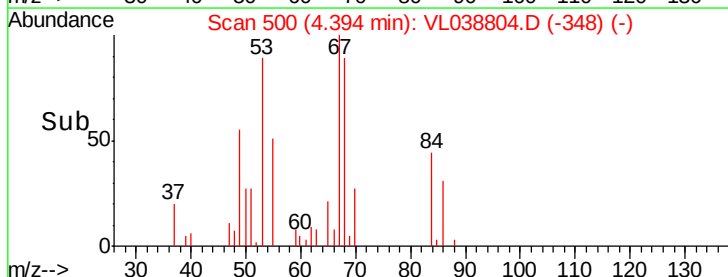
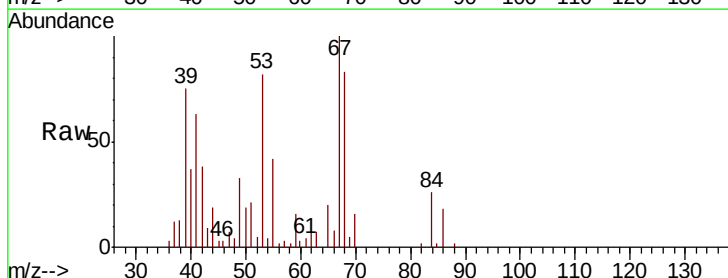
#20
Methylene Chloride
Concen: 2.583 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 30 Mar 2022 21:22

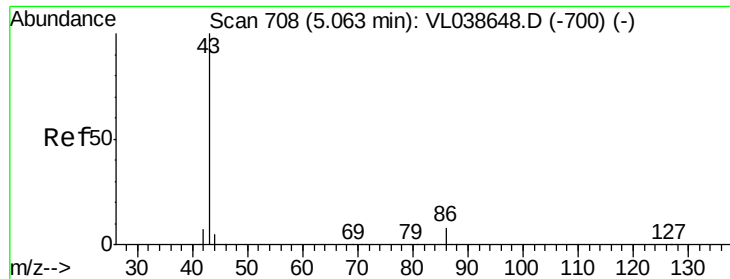
Tot Ion:	84	Resp:	72731
Ion	Ratio	Lower	Upper
84	100		
49	133.6	111.2	166.8
51	38.1	32.8	49.2
86	61.8	51.4	77.0



#21
Allyl Chloride
Concen: 0.163 ppbv
RT: 4.39 min Scan# 500
Delta R.T. -0.01 min
Lab File: VL038804.D
Acq: 30 Mar 2022 21:22

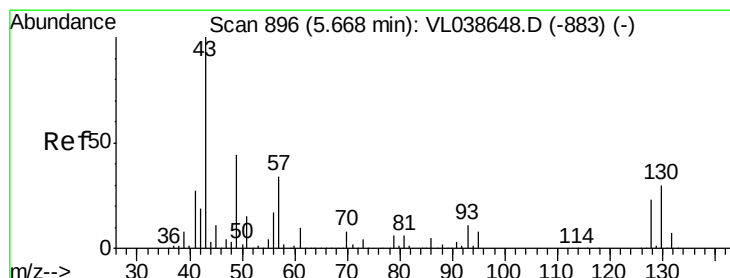
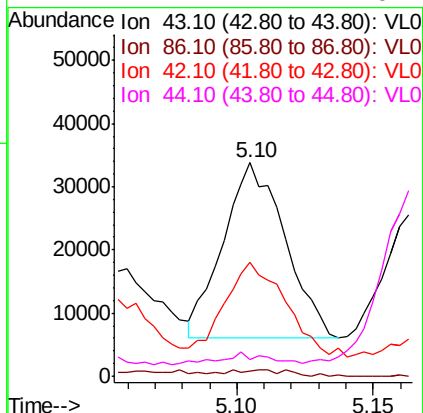
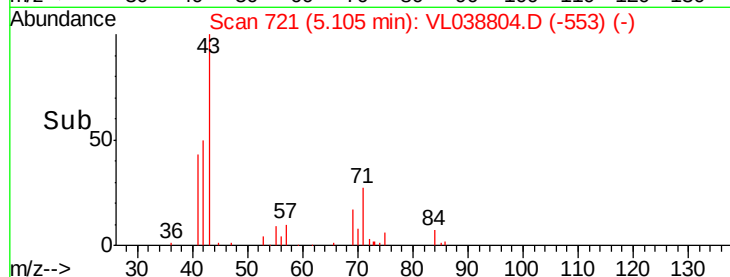
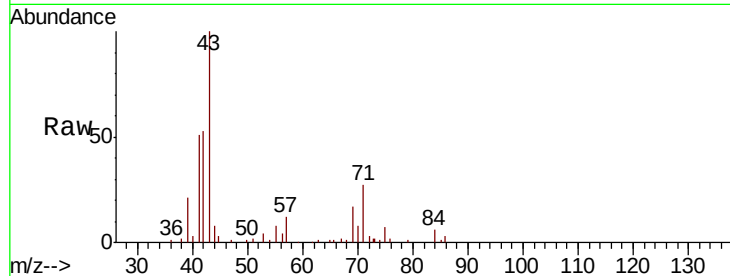
Tgt Ion:	41	Resp:	7846
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.0	37.6#
39	351.4	56.6	85.0#





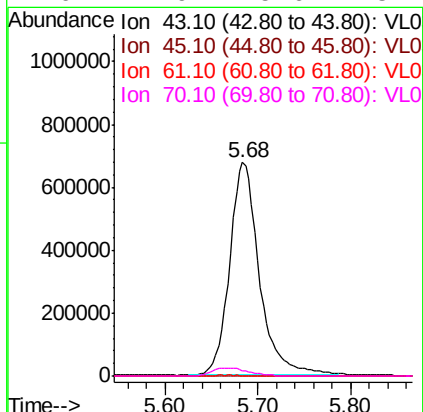
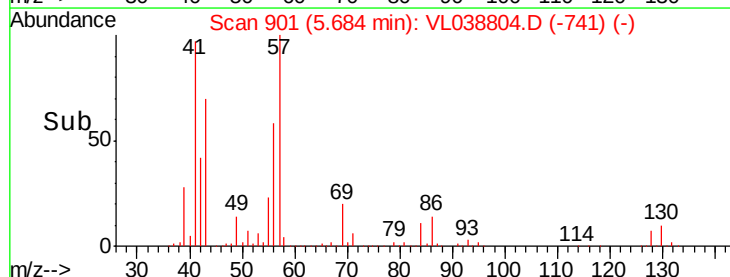
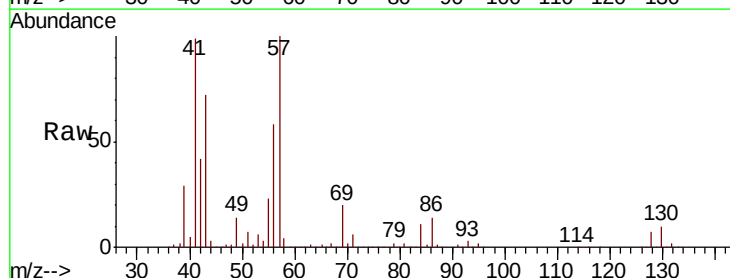
#23
 Vinyl Acetate
 Concen: 0.673 ppbv
 RT: 5.10
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 21:22

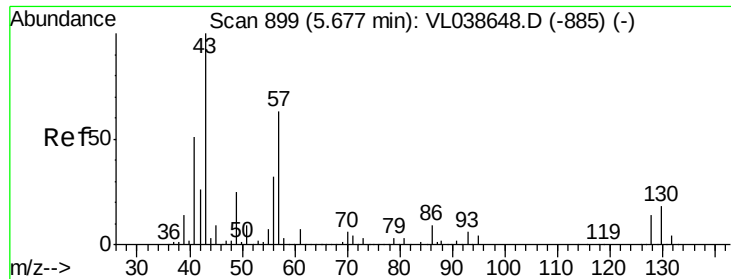
Tot Ion:	43	Resp:	43549
Ion	Ratio	Lower	Upper
43	100		
86	2.3	5.6	8.4#
42	49.0	6.8	10.2#
44	4.2	4.2	6.2



#25
 Ethyl Acetate
 Concen: 8.990 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. 0.02 min
 Lab File: VL038804.D
 Acq: 30 Mar 2022 21:22

Tgt Ion:	43	Resp:	1512753
Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.2	12.4#
61	0.4	8.3	12.5#
70	4.9	5.6	8.4#

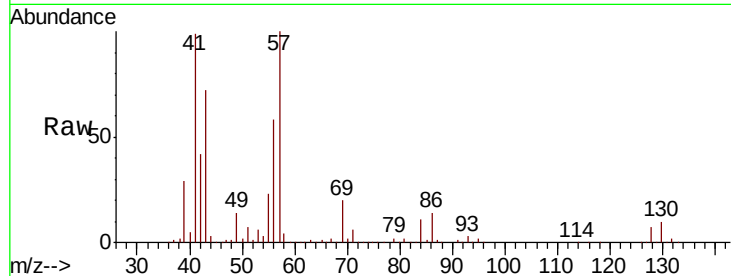




#26
Hexane
Concen: 27.410 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Mar 2022 21:22

Tot Ion: 57 Resp: 2064958

Ion	Ratio	Lower	Upper
57	100		
41	129.5	67.0	100.4#
43	74.0	184.2	276.2#
56	68.3	42.6	64.0#



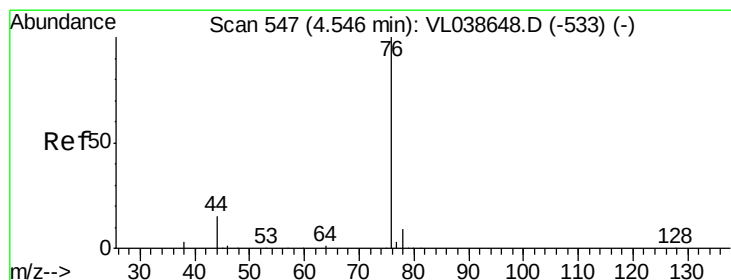
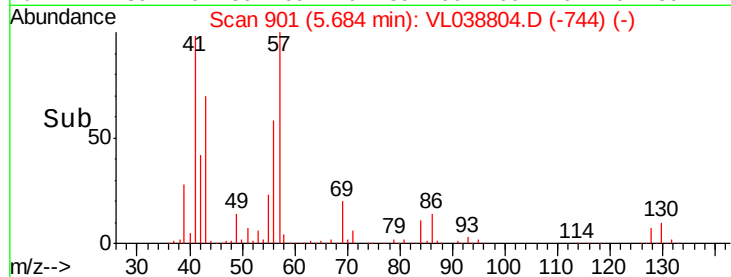
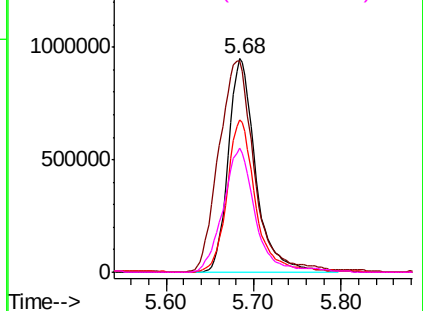
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

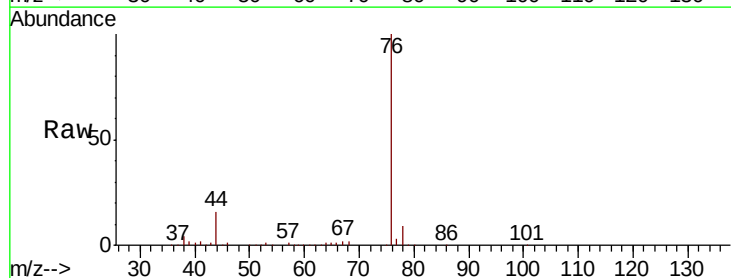
Ion 56.10 (55.80 to 56.80): VL0



#27
Carbon Disulfide
Concen: 4.561 ppbv
RT: 4.55 min Scan# 548
Delta R.T.: 0.00 min
Lab File: VL038804.D
Acq: 30 Mar 2022 21:22

Tgt Ion: 76 Resp: 337087

Ion	Ratio	Lower	Upper
76	100		
44	15.6	12.4	18.6
78	9.5	7.8	11.8

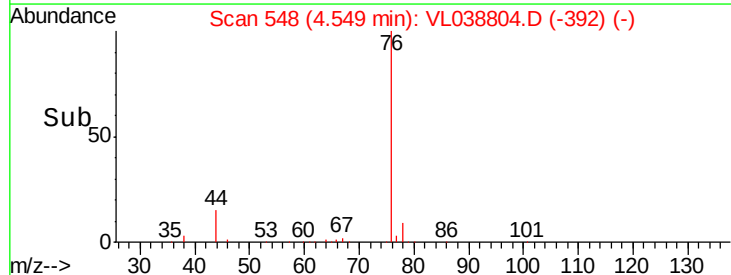
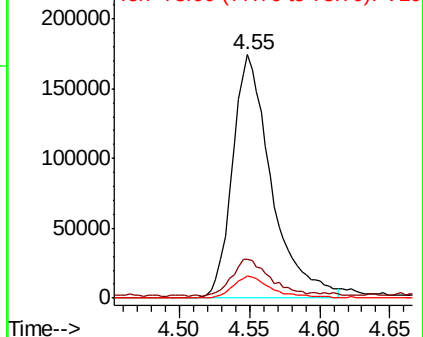


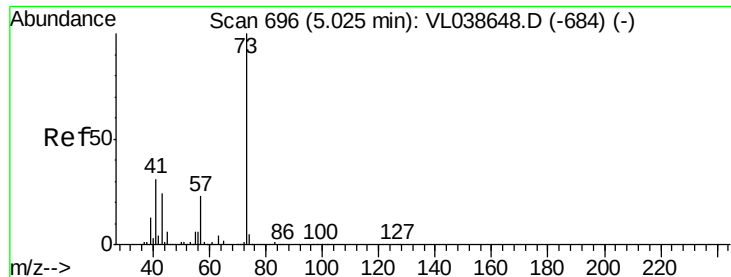
Abundance

Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

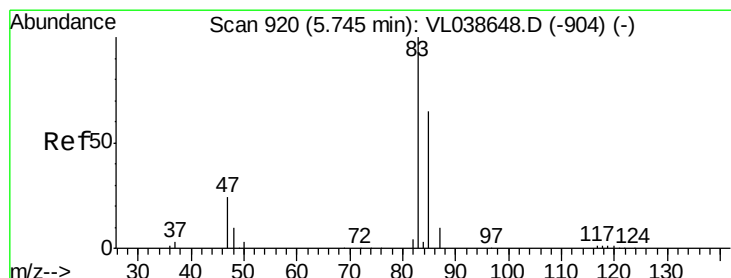
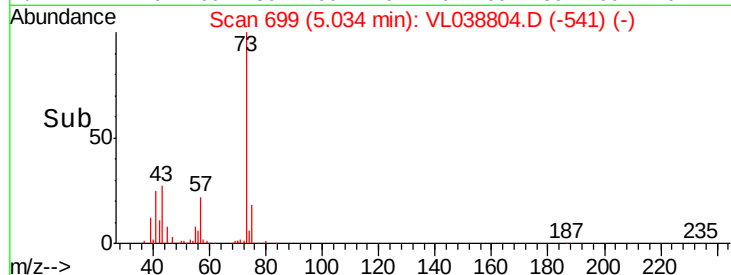
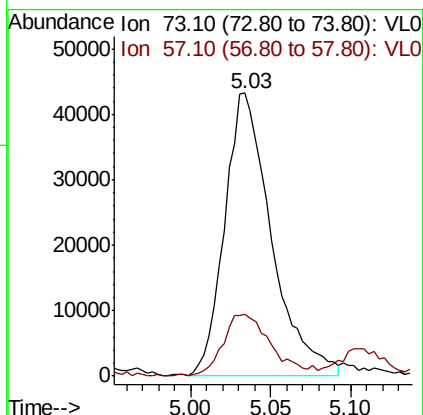
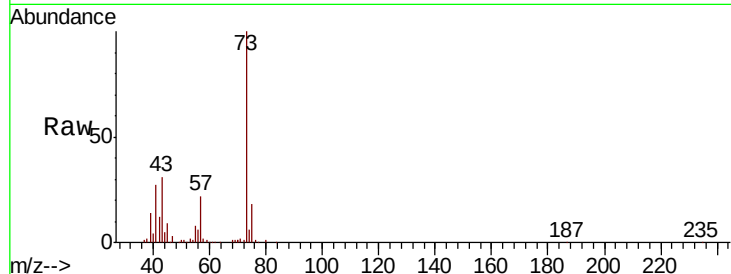
Ion 78.00 (77.70 to 78.70): VL0





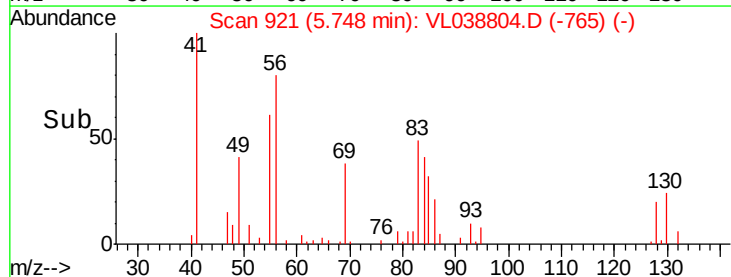
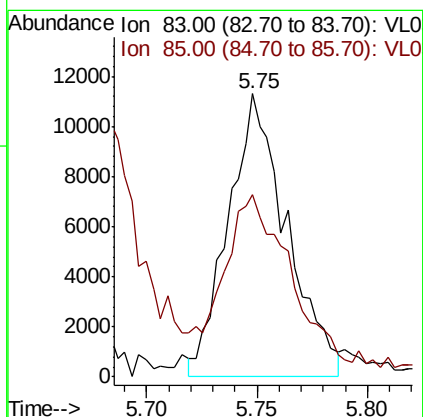
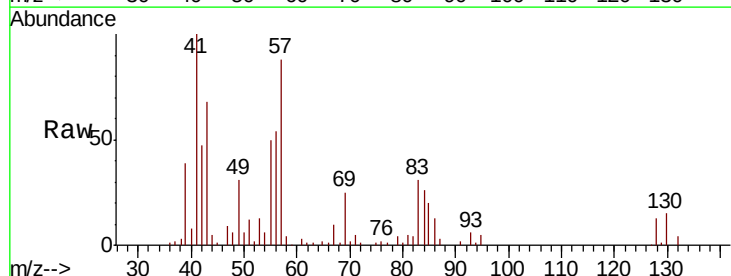
#28
Methyl tert-Butyl Ether
Concen: 1.530 ppbv
RT: 5.03 Instrument :
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 30 Mar 2022 21:22

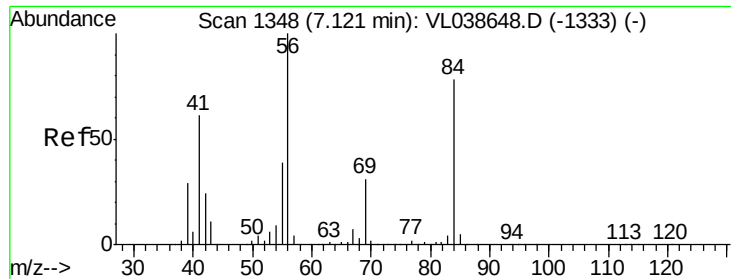
Tot Ion: 73 Resp: 85839
Ion Ratio Lower Upper
73 100
57 22.5 19.2 28.8



#29
Chloroform
Concen: 0.173 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.00 min
Lab File: VL038804.D
Acq: 30 Mar 2022 21:22

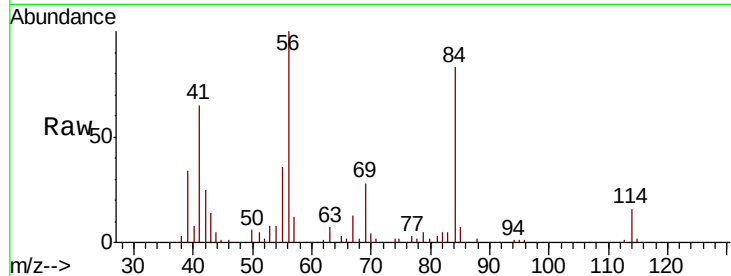
Tgt Ion: 83 Resp: 20842
Ion Ratio Lower Upper
83 100
85 60.6 51.7 77.5





#30
Cyclohexane
Concen: 0.443 ppbv
RT: 7.13
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 30 Mar 2022 21:22

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.2	162.4#
41	0.0	61.8	92.6#

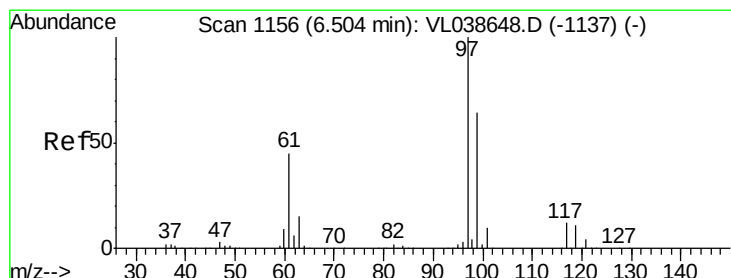
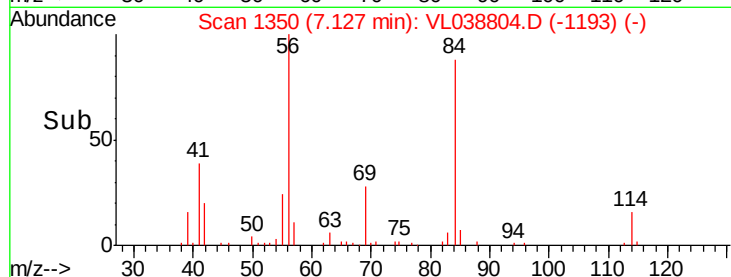
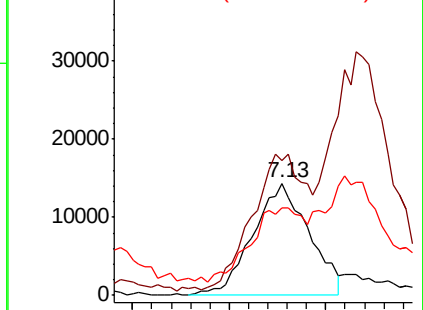


Abundance

Ion 84.20 (83.90 to 84.90): VL0

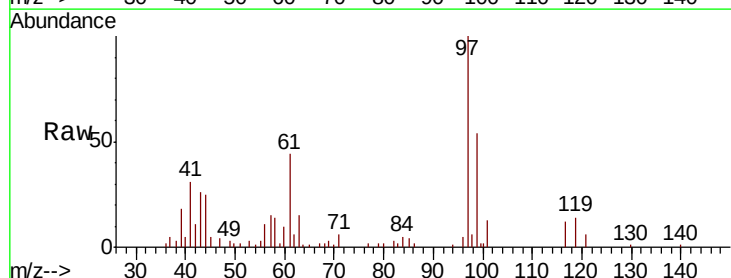
Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



#32
1,1,1-Trichloroethane
Concen: 0.331 ppbv
RT: 6.51 min Scan# 1157
Delta R.T. 0.00 min
Lab File: VL038804.D
Acq: 30 Mar 2022 21:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.8	77.8
61	47.5	36.7	55.1

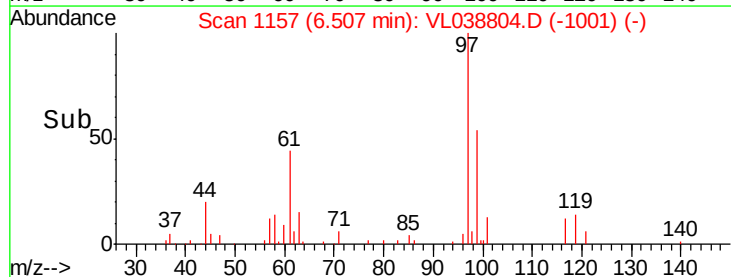
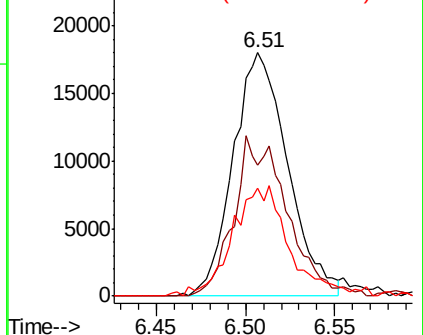


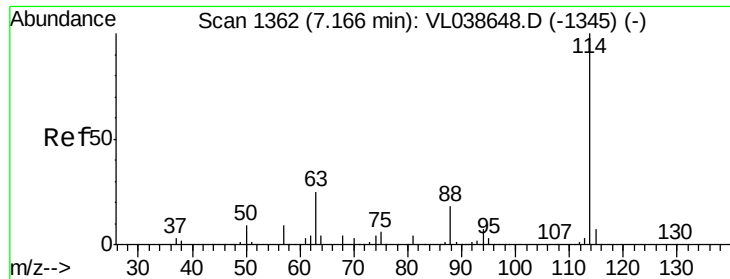
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

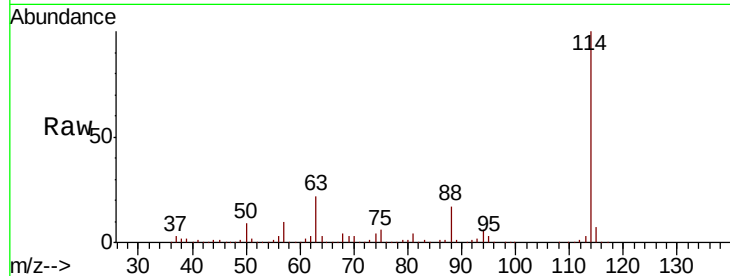
Ion 61.10 (60.80 to 61.80): VL0



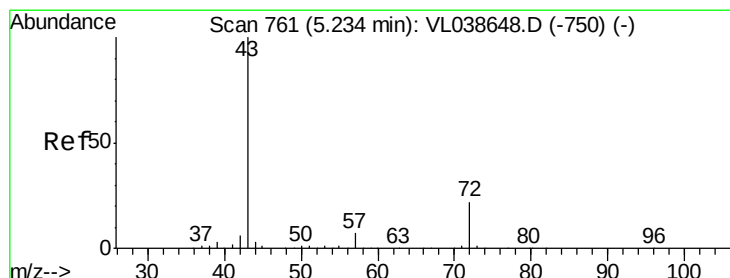
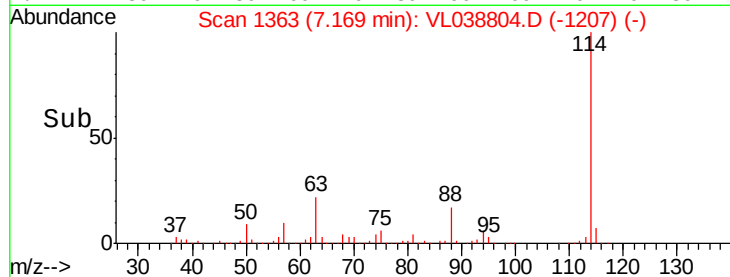
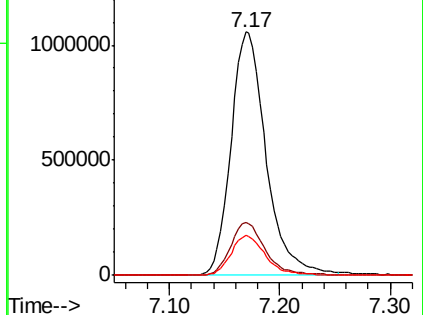


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 21:22

Tot Ion: 114 Resp: 2331145
 Ion Ratio Lower Upper
 114 100
 63 21.9 19.4 29.0
 88 16.4 13.9 20.9

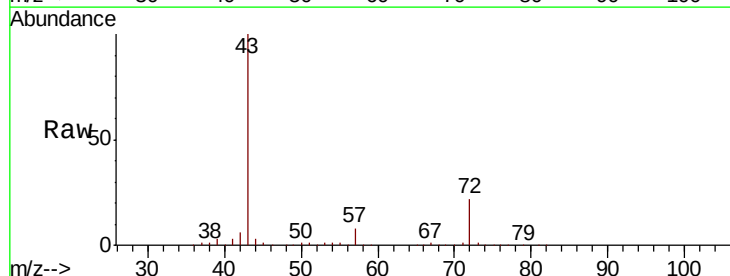


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

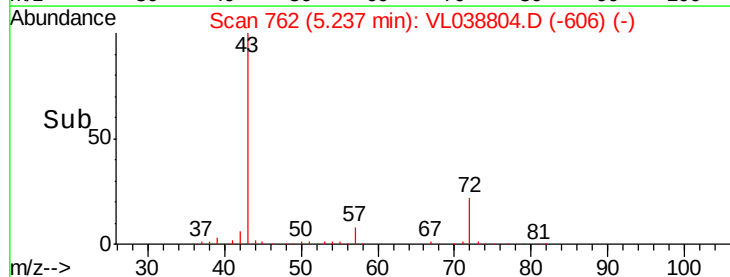
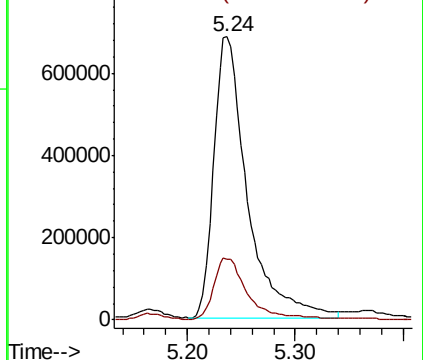


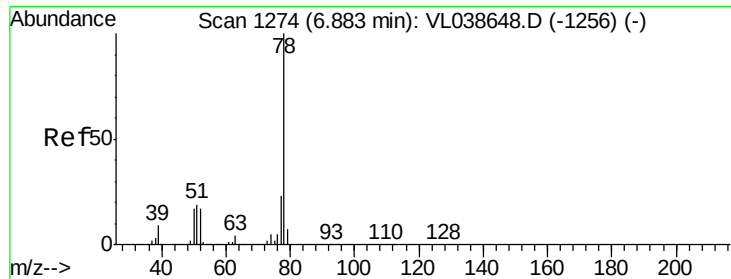
#34
 2-Butanone
 Concen: 16.033 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T.: 0.00 min
 Lab File: VL038804.D
 Acq: 30 Mar 2022 21:22

Tgt Ion: 43 Resp: 1479267
 Ion Ratio Lower Upper
 43 100
 72 22.6 17.8 26.8



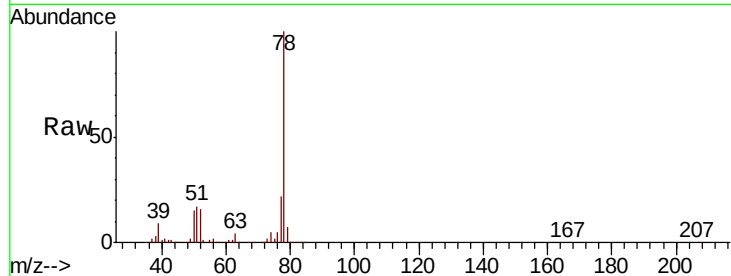
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36
Benzene
Concen: 2.273 ppbv
RT: 6.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 30 Mar 2022 21:22

Tot Ion	78	Resp	408956
Ion Ratio	100	Lower	Upper
77	21.4	18.1	27.1
50	15.0	13.6	20.4

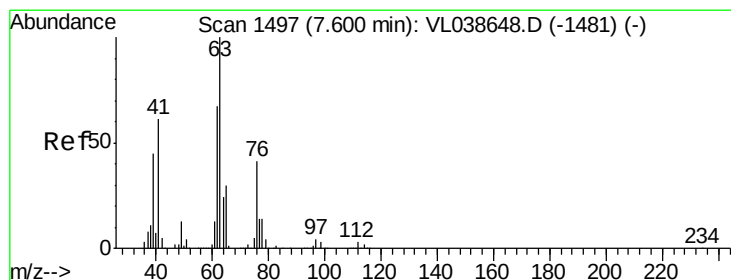
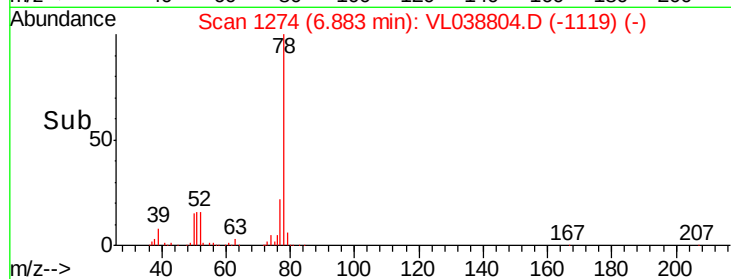
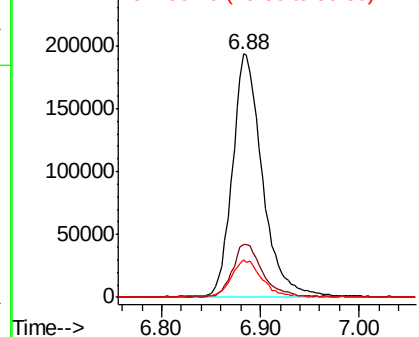


Abundance

Ion 78.10 (77.80 to 78.80): VL0

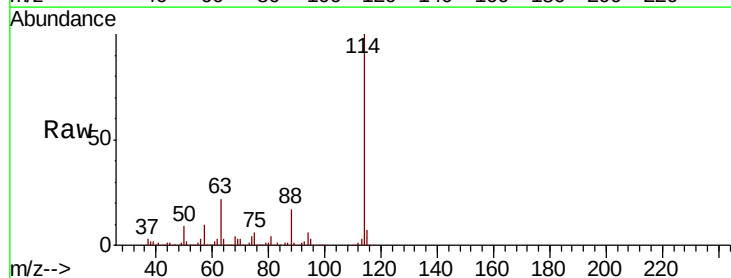
Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39
1,2-Dichloropropane
Concen: 7.140 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.43 min
Lab File: VL038804.D
Acq: 30 Mar 2022 21:22

Tgt Ion	63	Resp	502179
Ion Ratio	100	Lower	Upper
41	1.7	49.0	73.6#
62	15.5	53.9	80.9#

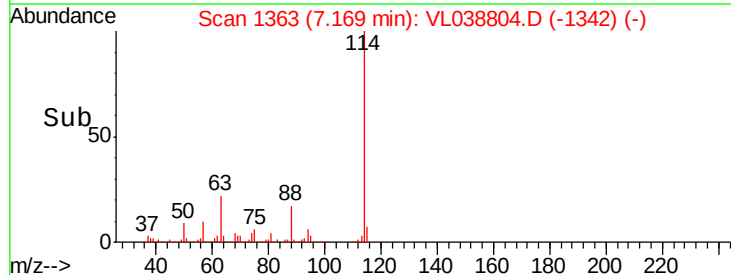
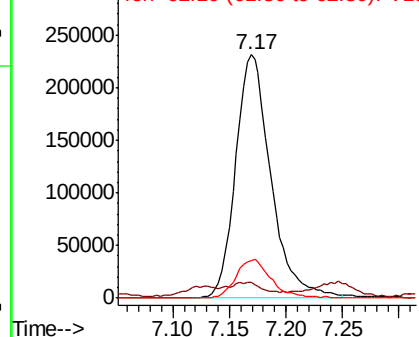


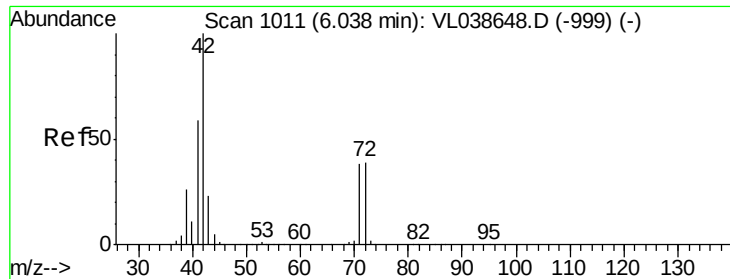
Abundance

Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

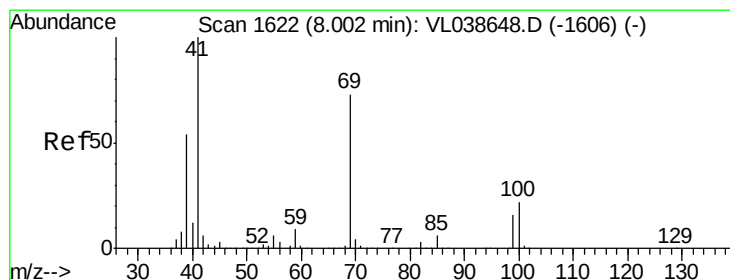
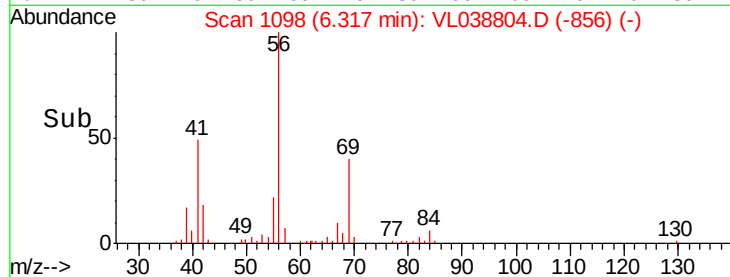
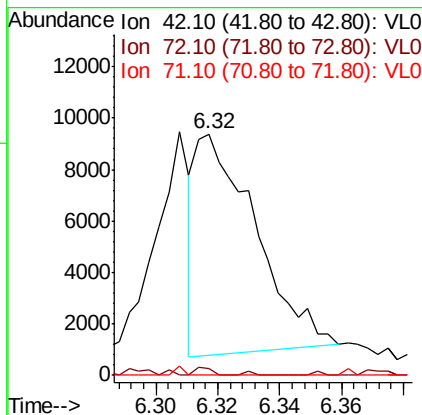
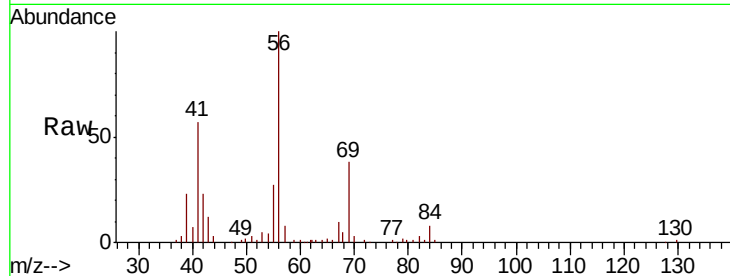
Ion 62.10 (61.80 to 62.80): VL0





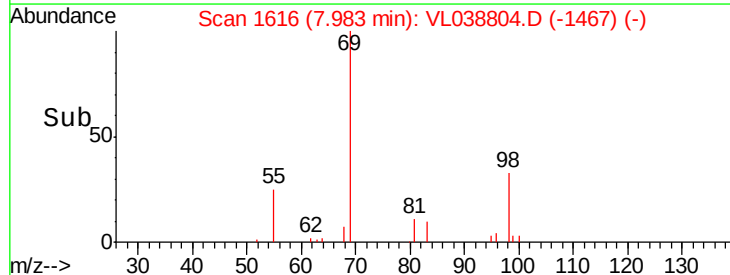
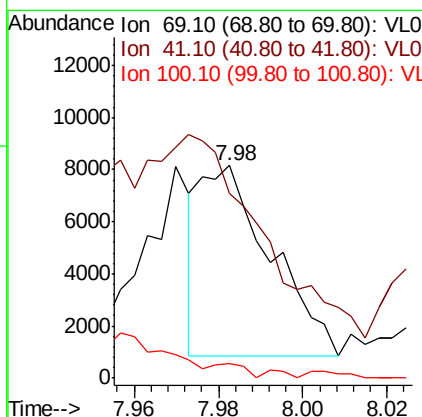
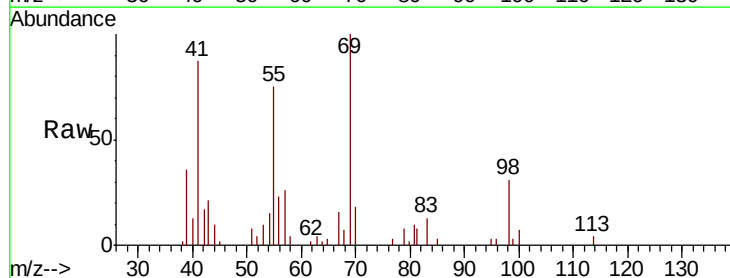
#41
Tetrahydrofuran
Concen: 0.167 ppbv
RT: 6.32 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Mar 2022 21:22

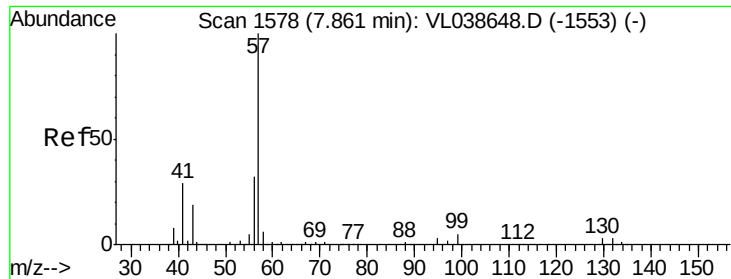
Tot Ion	42	Resp	11486
Ion Ratio	Lower	Upper	
42	100		
72	4.1	32.5	48.7#
71	0.0	31.4	47.2#



#43
Methyl Methacrylate
Concen: 0.127 ppbv
RT: 7.98 min Scan# 1616
Delta R.T.: -0.02 min
Lab File: VL038804.D
Acq: 30 Mar 2022 21:22

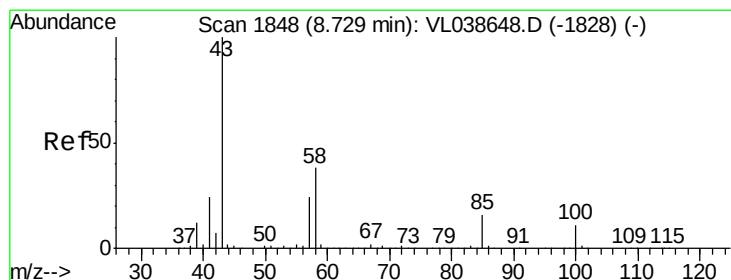
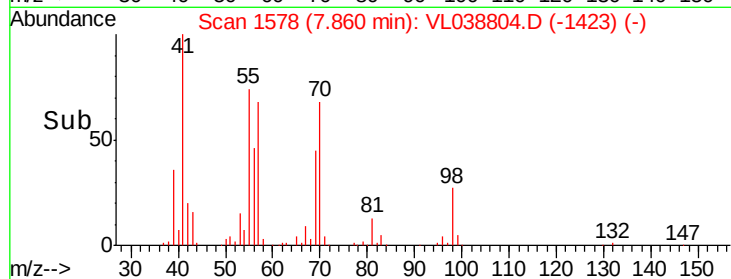
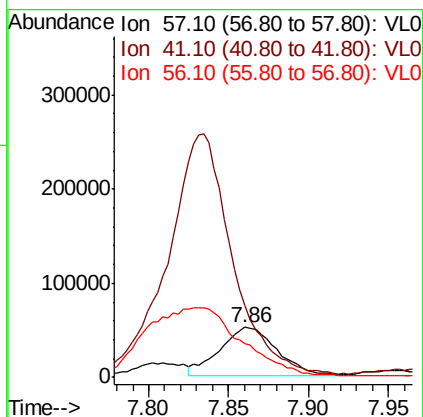
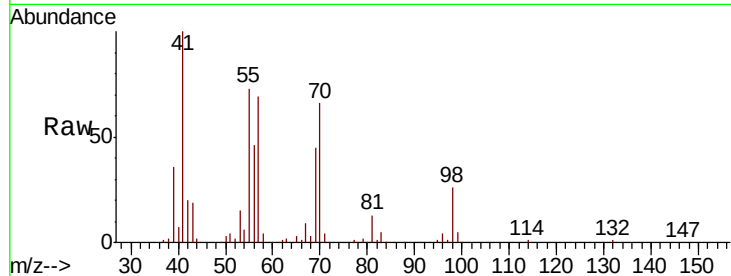
Tgt Ion	69	Resp	8474
Ion Ratio	Lower	Upper	
69	100		
41	0.0	110.3	165.5#
100	0.0	24.8	37.2#





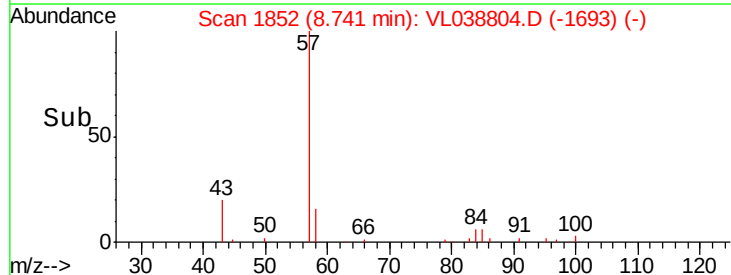
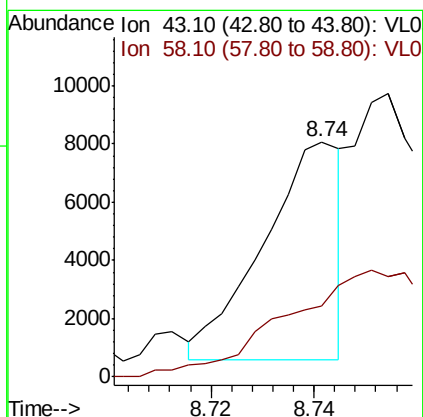
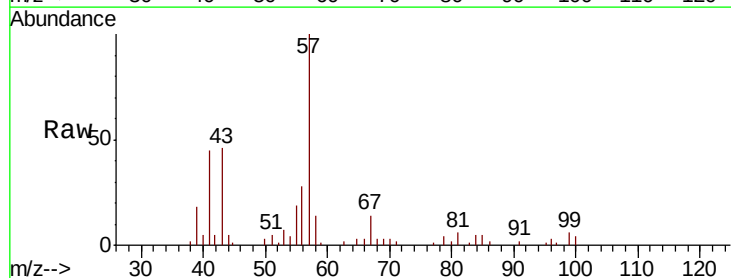
#44
 2,2,4-Trimethylpentane
 Concen: 0.415 ppbv
 RT: 7.86 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 30 Mar 2022 21:22

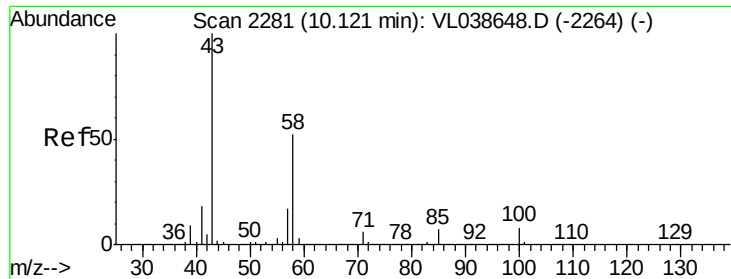
Tot Ion	57	Resp	125211
Ion Ratio	100	Lower	Upper
41	0.0	23.0	34.4#
56	0.0	25.3	37.9#



#50
 4-Methyl-2-Pentanone
 Concen: 0.046 ppbv
 RT: 8.74 min Scan# 1852
 Delta R.T. 0.01 min
 Lab File: VL038804.D
 Acq: 30 Mar 2022 21:22

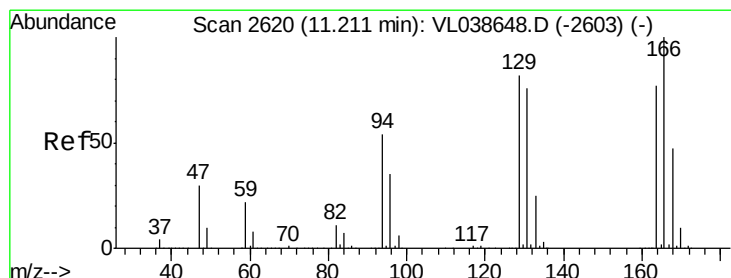
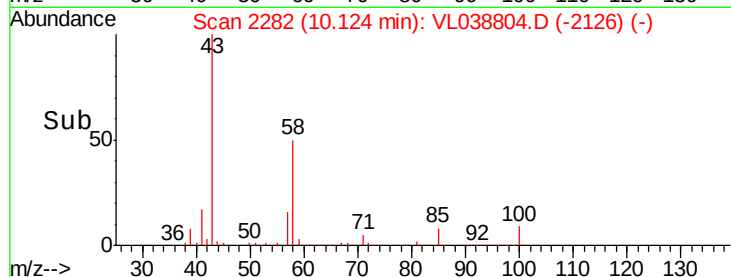
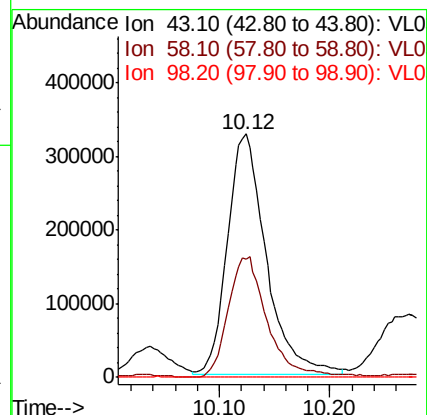
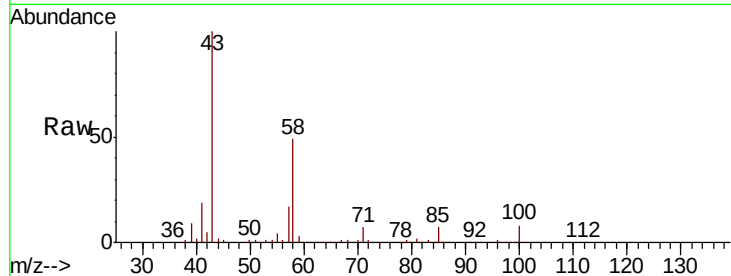
Tgt Ion	43	Resp	7870
Ion Ratio	100	Lower	Upper
58	0.0	29.9	44.9#





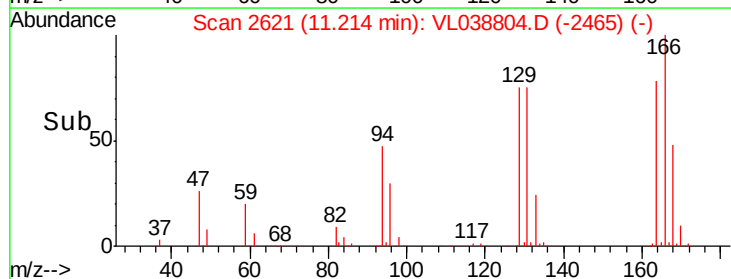
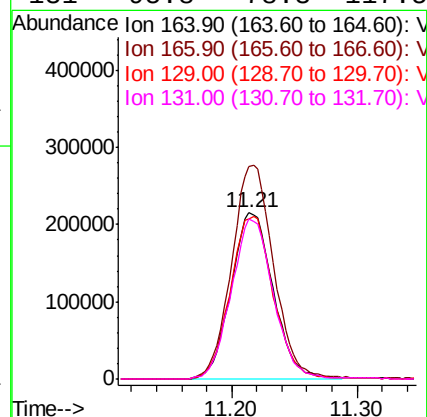
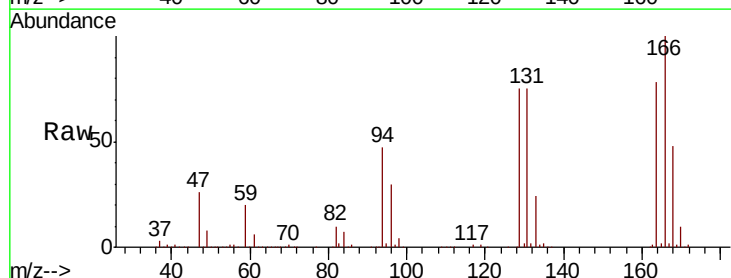
#51
2-Hexanone
Concen: 6.452 ppbv
RT: 10.12 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Mar 2022 21:22

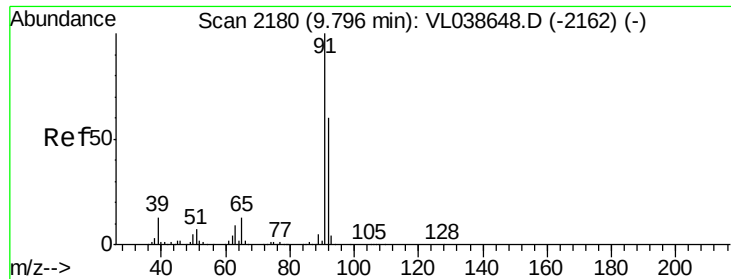
Tot Ion	Ratio	Lower	Upper
43	100		
58	51.1	41.2	61.8
98	0.2	0.2	0.4



#52
Tetrachloroethene
Concen: 7.558 ppbv
RT: 11.21 min Scan# 2621
Delta R.T.: 0.00 min
Lab File: VL038804.D
Acq: 30 Mar 2022 21:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.0	103.3	154.9
129	96.4	85.2	127.8
131	95.8	78.3	117.5





#53

Toluene

Concen: 6.684 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

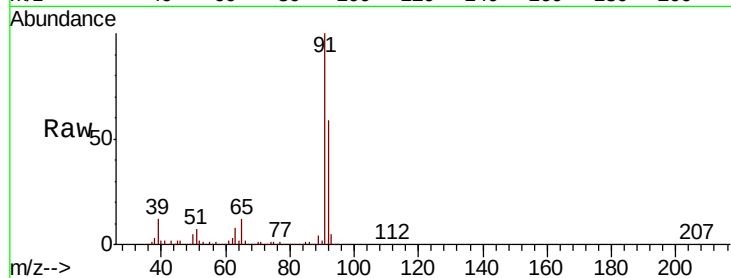
Acq: 30 Mar 2022 21:22

Tot Ion: 91 Resp: 1292180

Ion Ratio Lower Upper

91 100

92 61.8 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

600000

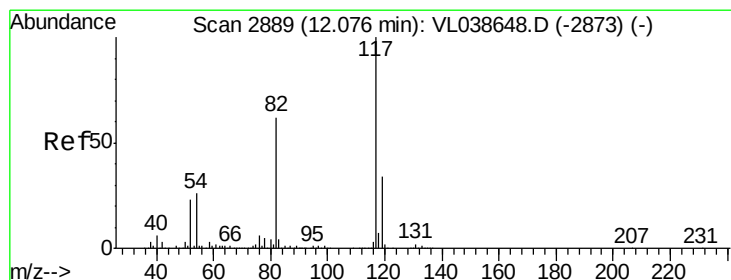
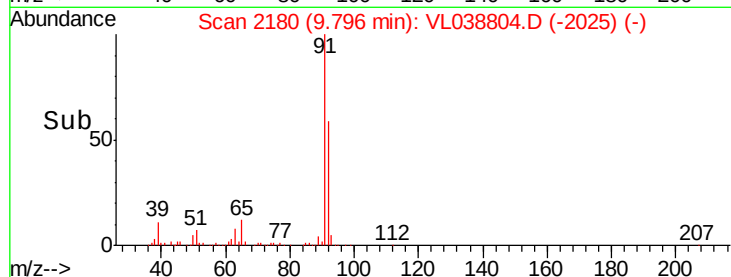
400000

200000

0

9.70 9.75 9.80 9.85 9.90

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL038804.D

Acq: 30 Mar 2022 21:22

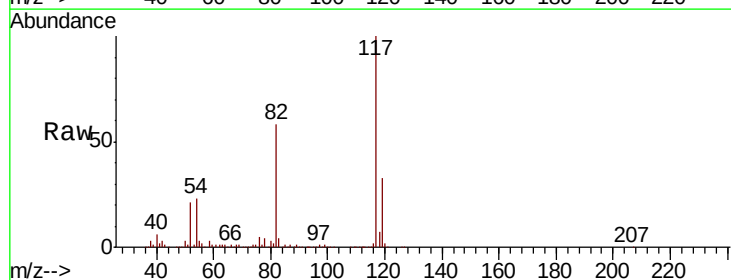
Tgt Ion: 117 Resp: 2098750

Ion Ratio Lower Upper

117 100

82 61.0 51.6 77.4

119 34.0 26.9 40.3



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

1200000

1000000

800000

600000

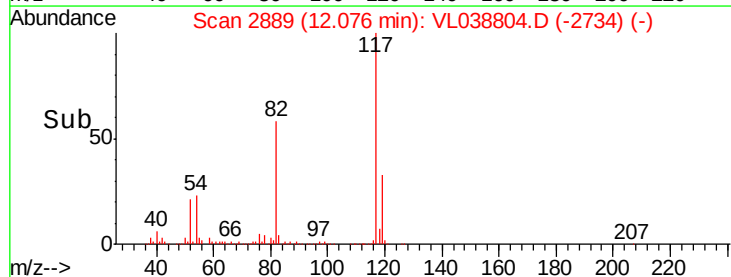
400000

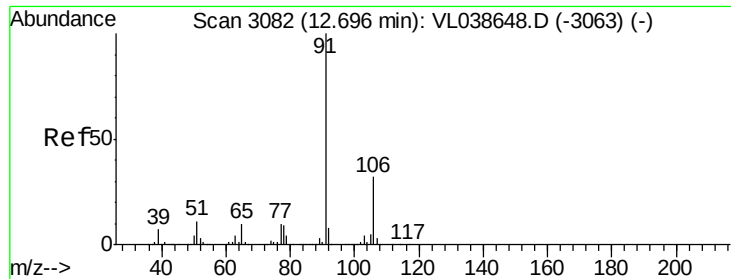
200000

0

12.00 12.10 12.20

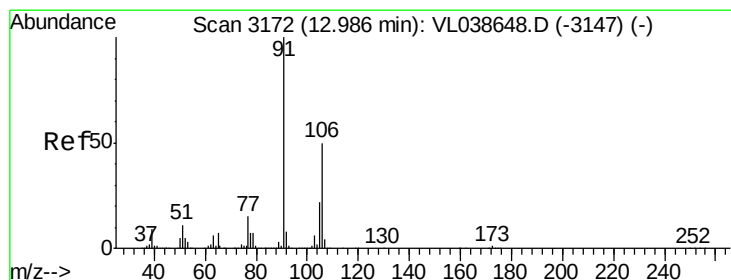
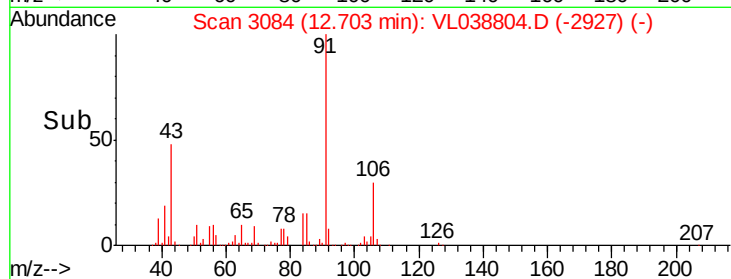
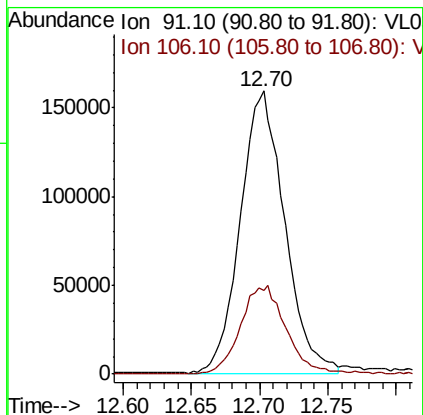
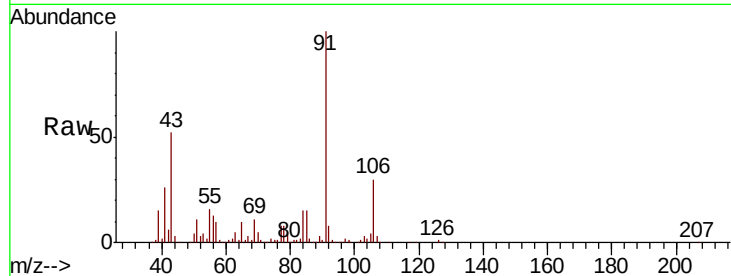
Time-->





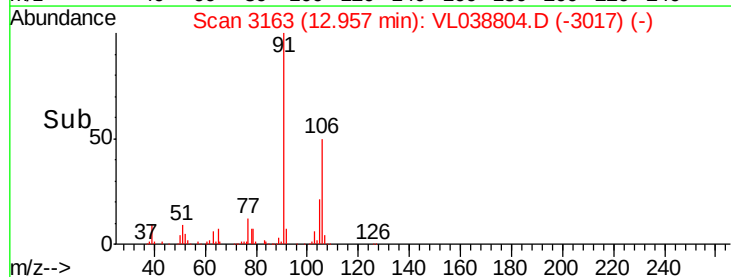
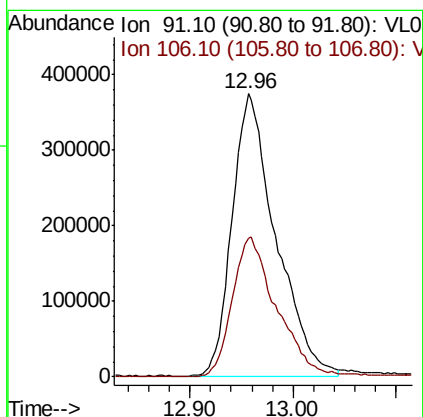
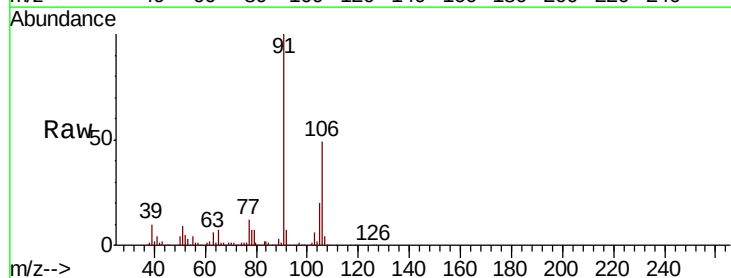
#58
Ethyl Benzene
Concen: 1.456 ppbv
RT: 12.70
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Mar 2022 21:22

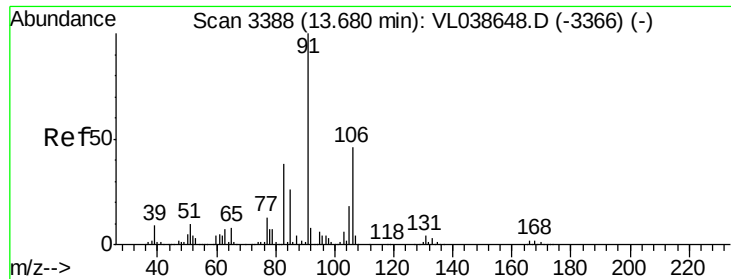
Tot Ion: 91 Resp: 357295
Ion Ratio Lower Upper
91 100
106 29.7 25.4 38.0



#59
m/p-Xylene
Concen: 5.137 ppbv
RT: 12.96 min Scan# 3163
Delta R.T. -0.03 min
Lab File: VL038804.D
Acq: 30 Mar 2022 21:22

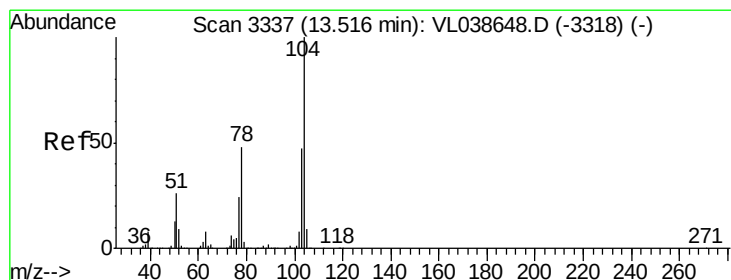
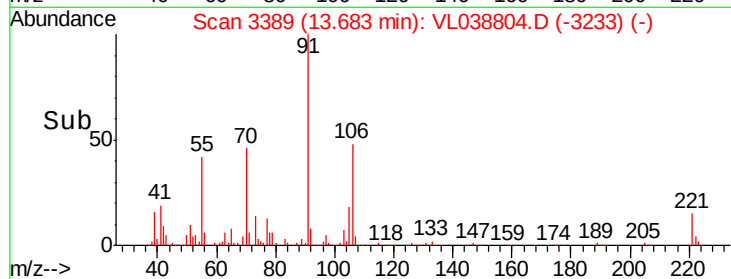
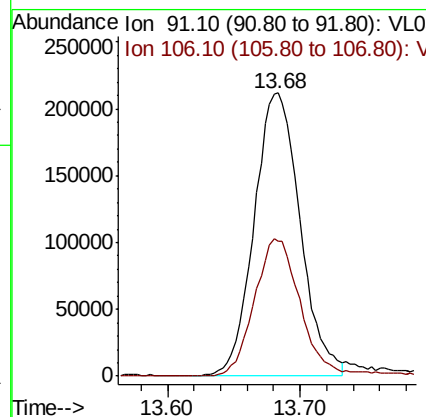
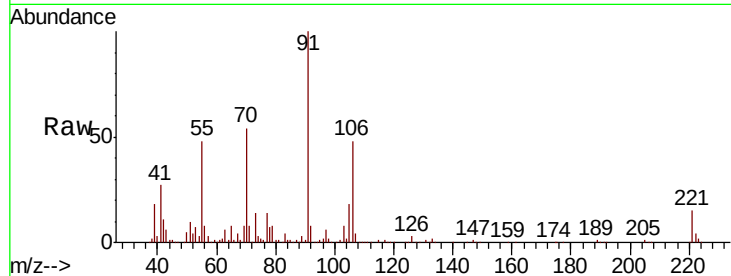
Tgt Ion: 91 Resp: 1102513
Ion Ratio Lower Upper
91 100
106 50.6 37.2 55.8





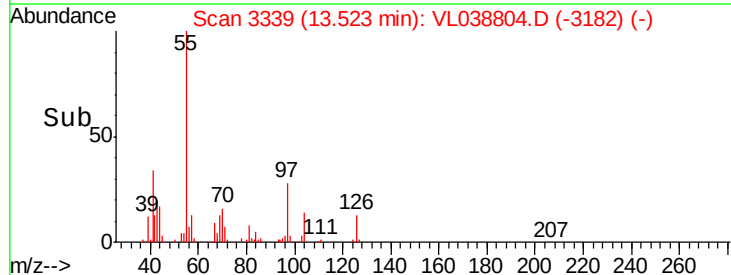
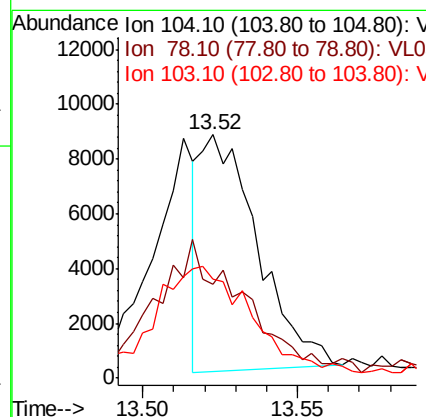
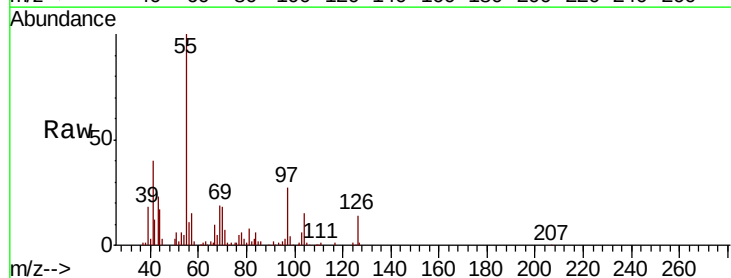
#60
o-Xylene
Concen: 2.496 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 30 Mar 2022 21:22

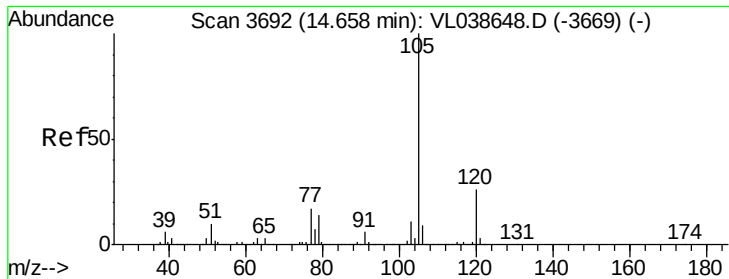
Tot Ion: 91 Resp: 508672
Ion Ratio Lower Upper
91 100
106 50.5 23.5 70.5



#61
Styrene
Concen: 0.100 ppbv
RT: 13.52 min Scan# 3339
Delta R.T. 0.01 min
Lab File: VL038804.D
Acq: 30 Mar 2022 21:22

Tgt Ion: 104 Resp: 11100
Ion Ratio Lower Upper
104 100
78 105.7 39.0 58.4#
103 89.3 37.8 56.8#





#62

Isopropylbenzene

Concen: 0.715 ppbv

RT: 14.65

Delta R.T. MSVOA_L

Lab File:

Acq: 30 Mar 2022 21:22

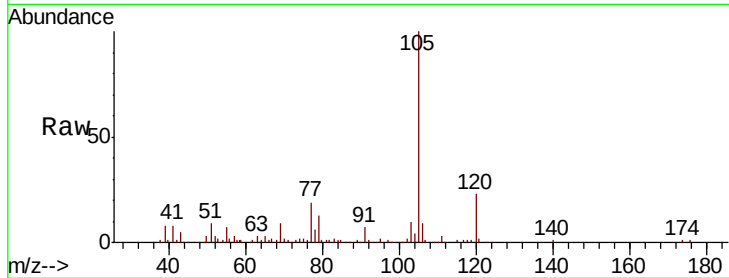
ClientSampleId :

Tot Ion:105 Resp: 218961

Ion Ratio Lower Upper

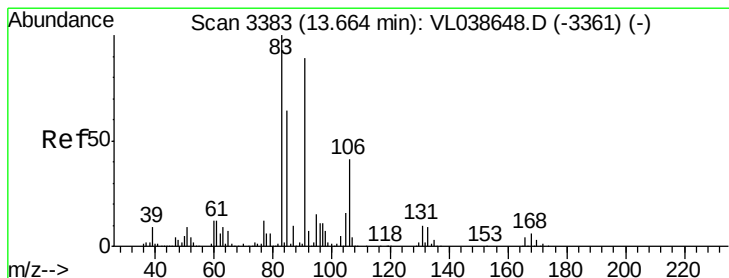
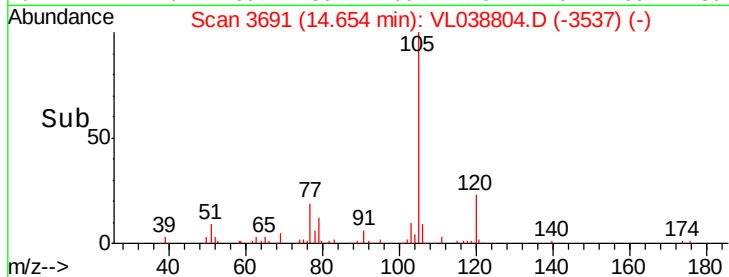
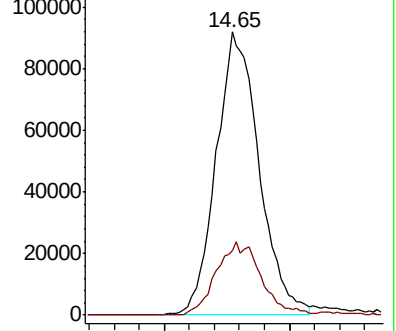
105 100

120 27.5 21.2 31.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.078 ppbv

RT: 13.68 min Scan# 3387

Delta R.T. 0.01 min

Lab File: VL038804.D

Acq: 30 Mar 2022 21:22

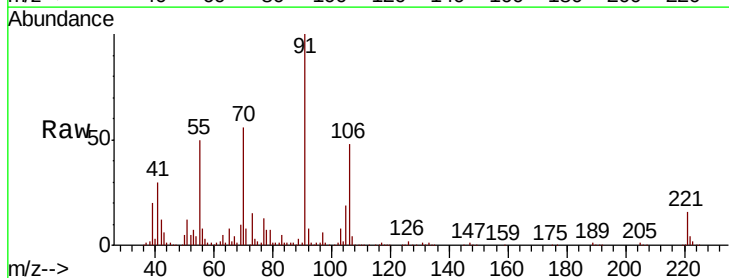
Tgt Ion: 83 Resp: 12312

Ion Ratio Lower Upper

83 100

131 31.6 4.8 14.3#

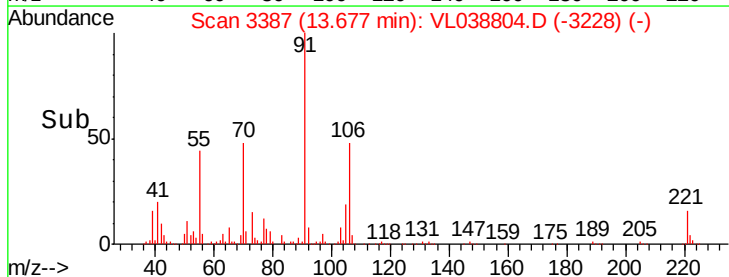
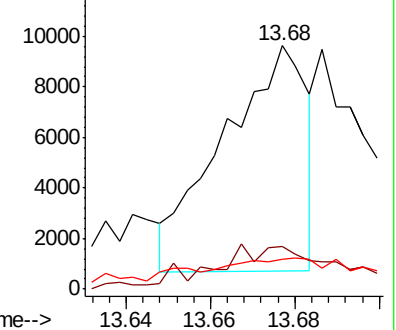
85 27.8 32.6 97.8#

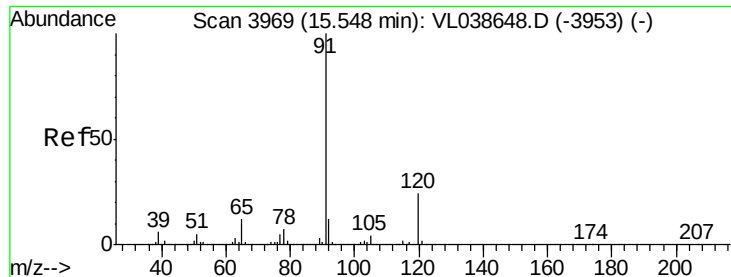


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

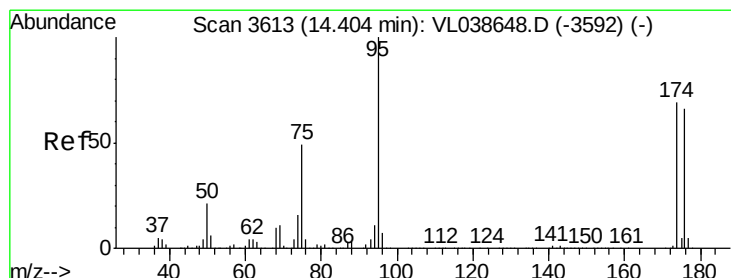
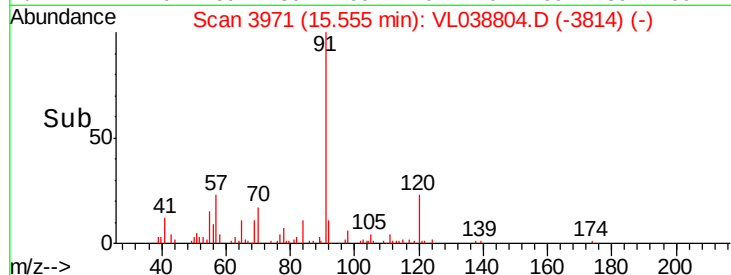
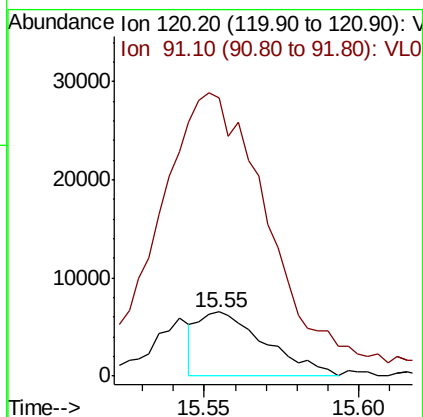
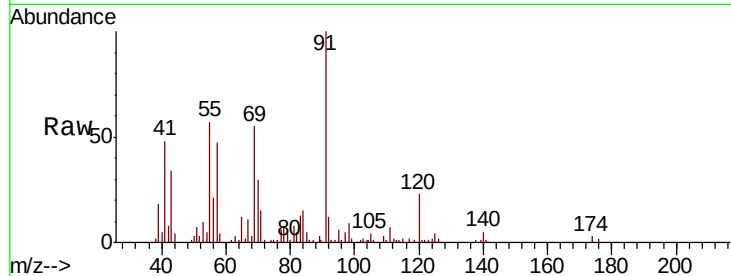
Ion 85.00 (84.70 to 85.70): VL0





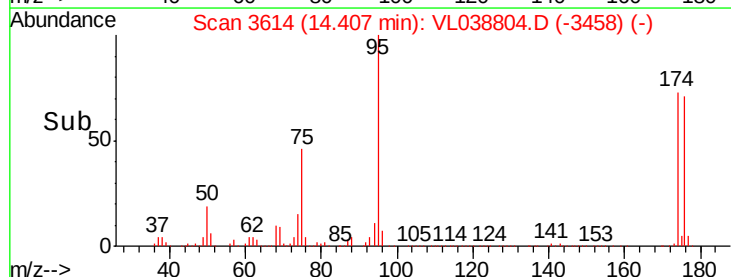
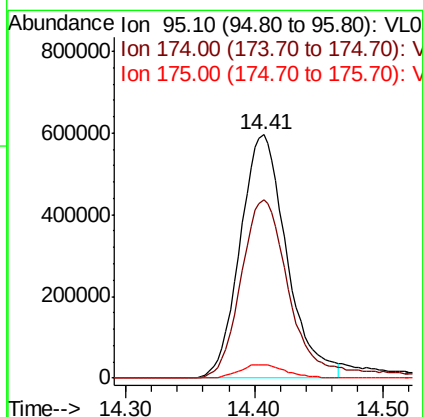
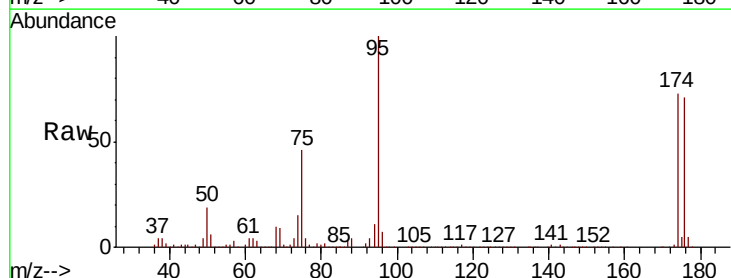
#64
 n-propylbenzene
 Concen: 0.123 ppbv
 RT: 15.55 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 21:22

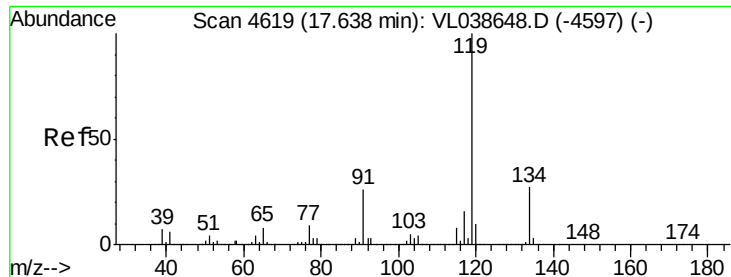
Tot Ion: 120 Resp: 9870
 Ion Ratio Lower Upper
 120 100
 91 721.4 368.0 552.0#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.276 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. 0.00 min
 Lab File: VL038804.D
 Acq: 30 Mar 2022 21:22

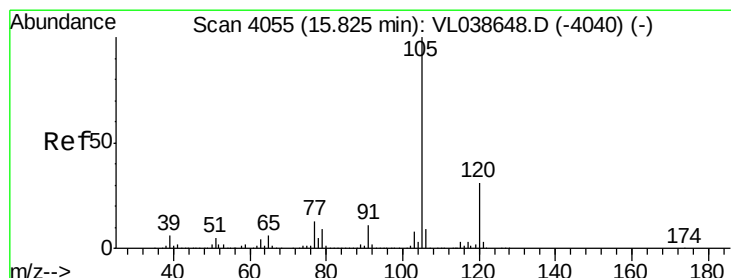
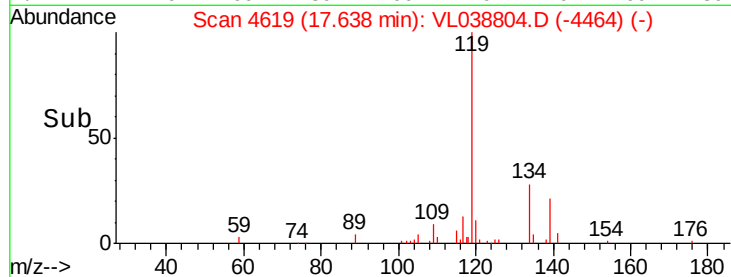
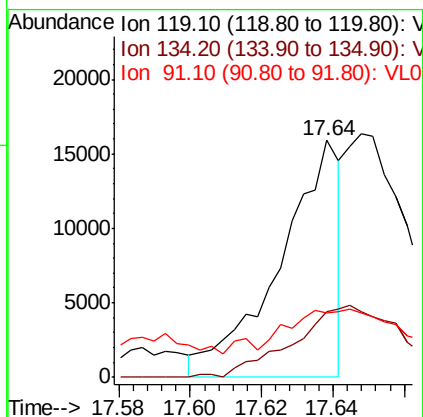
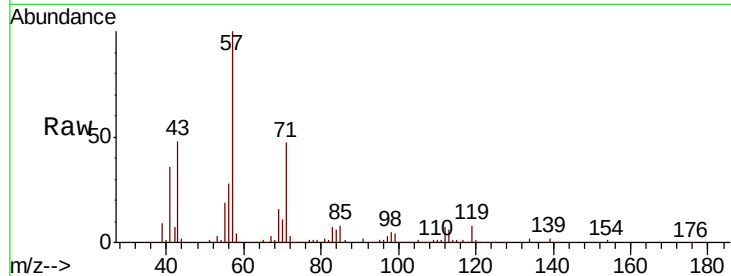
Tgt Ion: 95 Resp: 1492649
 Ion Ratio Lower Upper
 95 100
 174 79.9 56.1 84.1
 175 5.8 4.2 6.2





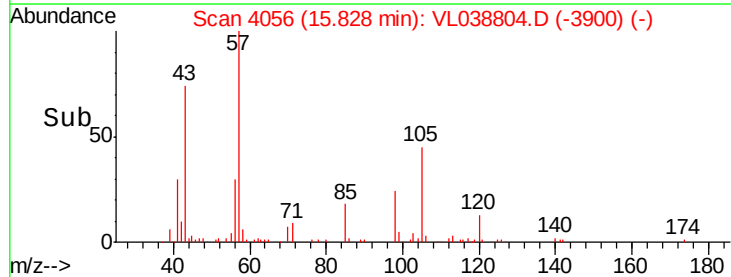
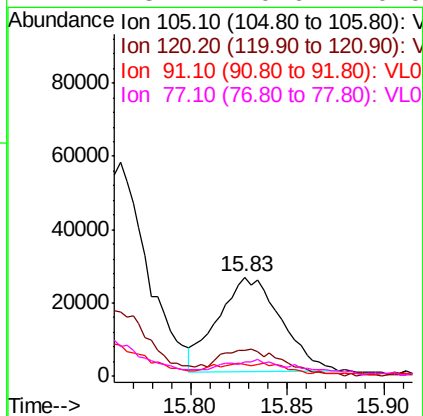
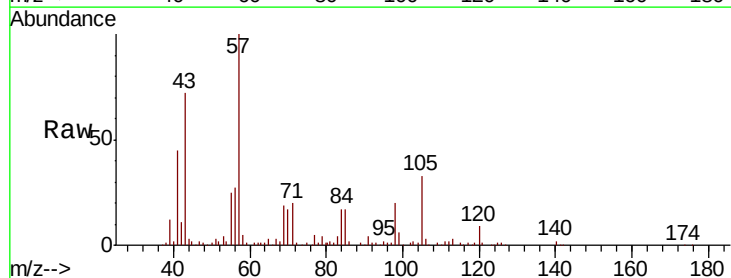
#69
 p-Isopropyltoluene
 Concen: 0.058 ppbv
 RT: 17.64 min
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 21:22

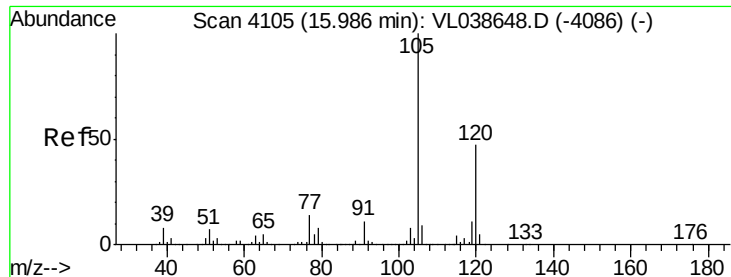
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	21.2	31.8#
91	0.0	21.4	32.2#



#72
 4-Ethyltoluene
 Concen: 0.243 ppbv
 RT: 15.83 min Scan# 4056
 Delta R.T.: 0.00 min
 Lab File: VL038804.D
 Acq: 30 Mar 2022 21:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	33.5	24.9	37.3
91	14.0	9.8	14.6
77	18.4	10.6	16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.291 ppbv

RT: 15.98 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

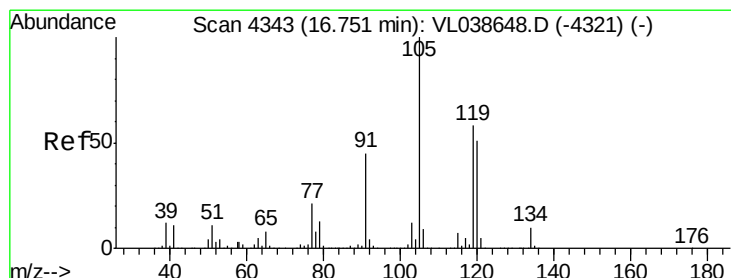
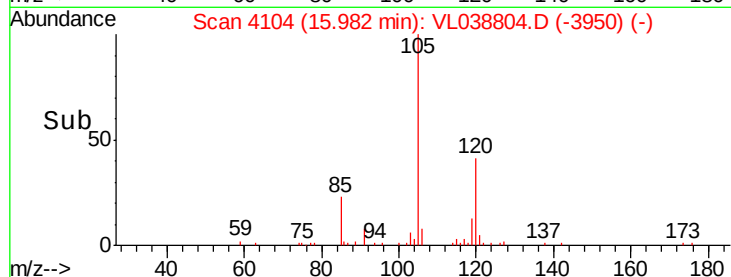
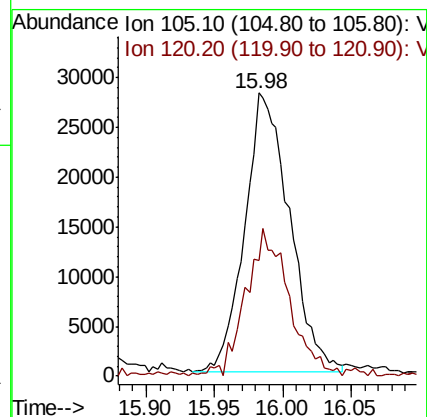
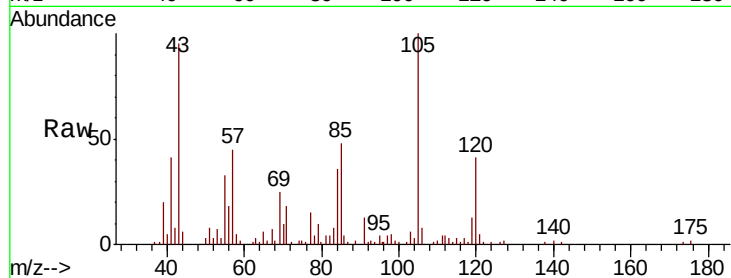
Acq: 30 Mar 2022 21:22

Tot Ion:105 Resp: 63698

Ion Ratio Lower Upper

105 100

120 41.4 37.6 56.4



#74

1,2,4-Trimethylbenzene

Concen: 0.613 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.00 min

Lab File: VL038804.D

Acq: 30 Mar 2022 21:22

Tgt Ion:105 Resp: 146465

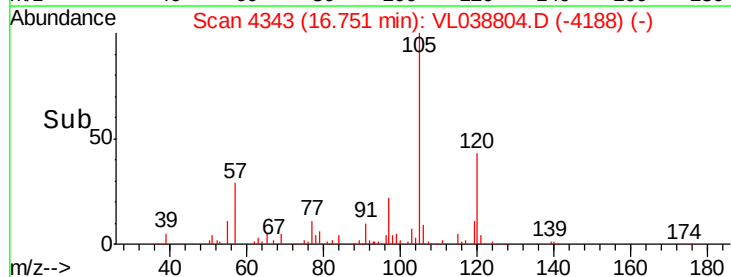
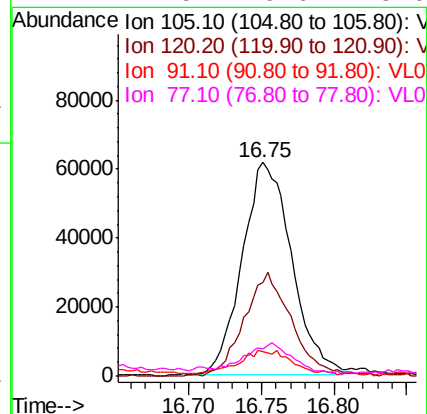
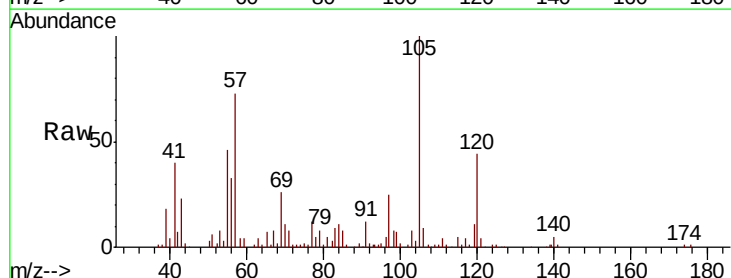
Ion Ratio Lower Upper

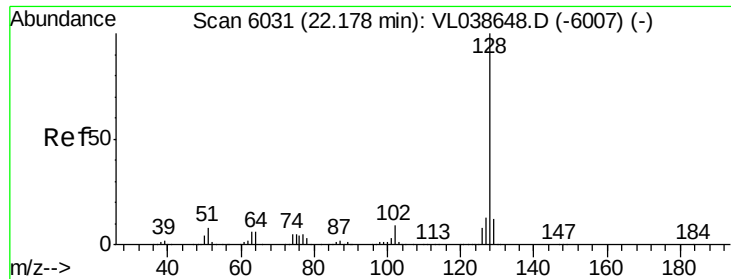
105 100

120 43.1 40.5 60.7

91 10.3 35.9 53.9#

77 11.5 16.6 25.0#





#79

Naphthalene

Concen: 0.047 ppbv

RT: 22.17 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 21:22

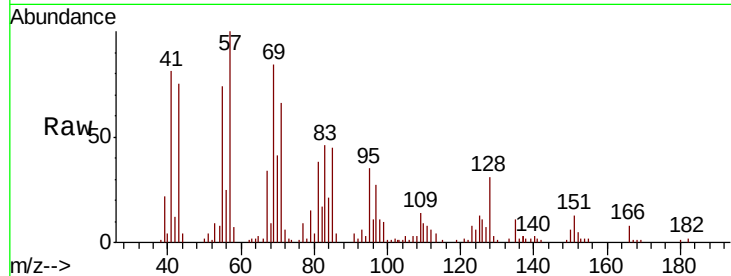
Tot Ion:128 Resp: 8602

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.4

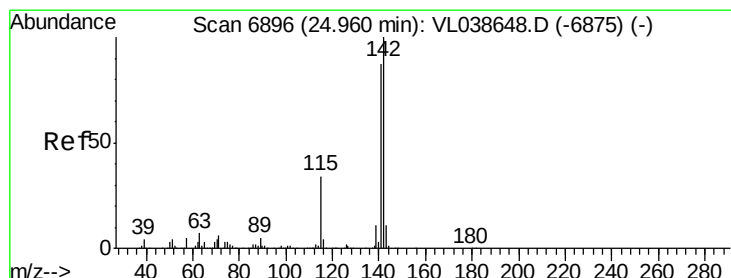
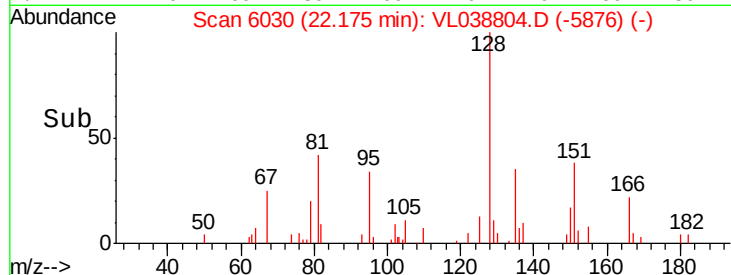
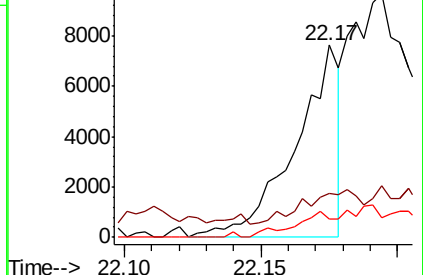
129 9.8 9.2 13.8



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.046 ppbv

RT: 24.97 min Scan# 6898

Delta R.T. 0.01 min

Lab File: VL038804.D

Acq: 30 Mar 2022 21:22

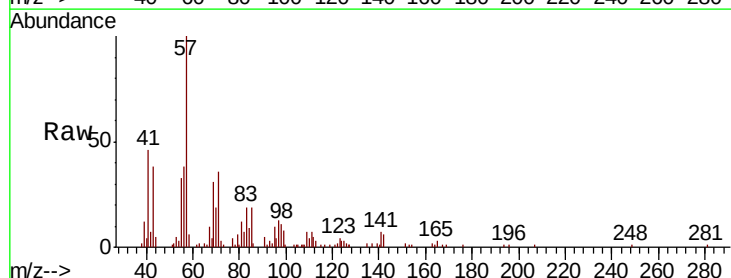
Tgt Ion:142 Resp: 2244

Ion Ratio Lower Upper

142 100

141 148.8 66.4 99.6#

115 66.2 27.8 41.6#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

