

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052322\
 Data File : VL039110.D
 Acq On : 24 May 2022 8:20
 Operator : SY/AP
 Sample : N2991-01 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2

Quant Time: May 24 09:07:37 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1234482	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3121675	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.05	117	2752157	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	2166802	9.94	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

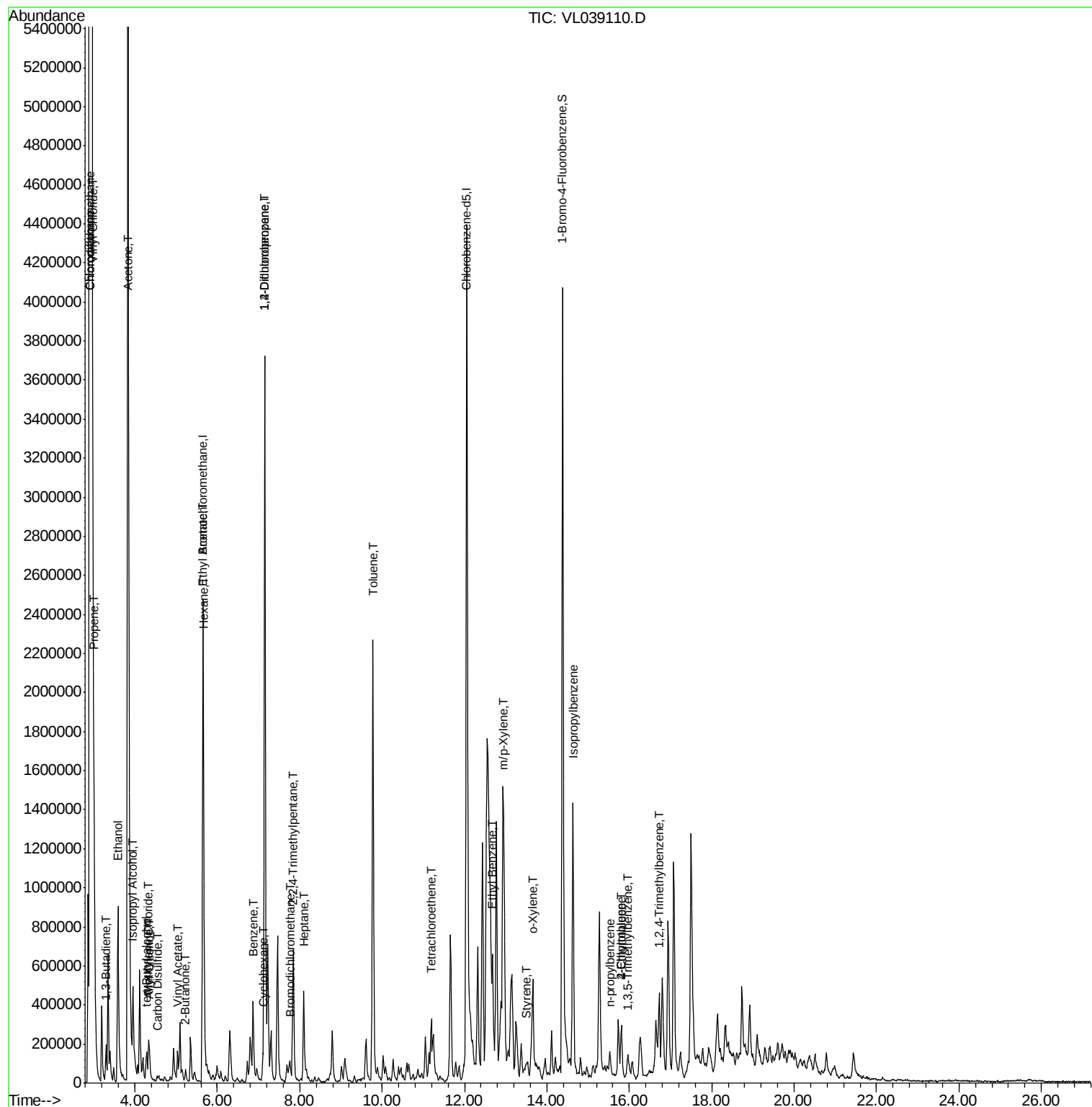
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.92	51	6888134	44.967	ppbv #	57
4) Chloromethane	2.92	50	2024170	26.386	ppbv #	46
5) Vinyl Chloride	2.98	62	2160	0.031	ppbv #	1
9) Propene	3.00	41	188542	2.818	ppbv	89
10) Heptane	8.10	43	209314	1.275	ppbv	97
13) Ethanol	3.59	45	1162343	245.526	ppbv	87
15) Acetone	3.83	43	9052033	77.734	ppbv	94
16) 1,3-Butadiene	3.30	39	27157	0.406	ppbv #	9
17) tert-Butyl alcohol	4.28	59	112617	1.258	ppbv	98
19) Isopropyl Alcohol	3.95	45	488131	8.816	ppbv #	1
20) Methylene Chloride	4.33	84	69883	1.592	ppbv	95
21) Allyl Chloride	4.35	41	11367	0.143	ppbv #	1
23) Vinyl Acetate	5.04	43	57981	0.629	ppbv #	1
25) Ethyl Acetate	5.66	43	194173	0.697	ppbv #	79
26) Hexane	5.67	57	279233	2.255	ppbv #	39
27) Carbon Disulfide	4.54	76	23974	0.204	ppbv #	76
30) Cyclohexane	7.10	84	25459	0.246	ppbv #	1
34) 2-Butanone	5.22	43	71262	0.447	ppbv #	81
36) Benzene	6.87	78	349867	1.310	ppbv	94
39) 1,2-Dichloropropane	7.15	63	793300	7.632	ppbv #	26
42) Bromodichloromethane	7.76	83	8049	0.036	ppbv #	24
44) 2,2,4-Trimethylpentane	7.84	57	634451	1.353	ppbv #	92
52) Tetrachloroethene	11.19	164	77811	0.815	ppbv #	85
53) Toluene	9.77	91	1781815	5.951	ppbv	99
58) Ethyl Benzene	12.68	91	441172	1.114	ppbv	95
59) m/p-Xylene	12.96	91	412479	1.220	ppbv #	33
60) o-Xylene	13.66	91	256329	0.805	ppbv	98
61) Styrene	13.49	104	12568	0.074	ppbv #	25
62) Isopropylbenzene	14.63	105	1293964	2.780	ppbv	100
64) n-propylbenzene	15.52	120	11023	0.098	ppbv #	1
71) 2-Chlorotoluene	15.80	91	21261	0.059	ppbv	75
72) 4-Ethyltoluene	15.81	105	185857	0.513	ppbv	99
73) 1,3,5-Trimethylbenzene	15.96	105	44806	0.137	ppbv	98
74) 1,2,4-Trimethylbenzene	16.72	105	286618	0.802	ppbv #	65

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

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QLast Update : Thu May 05 10:12:15 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 May 2022 8:20

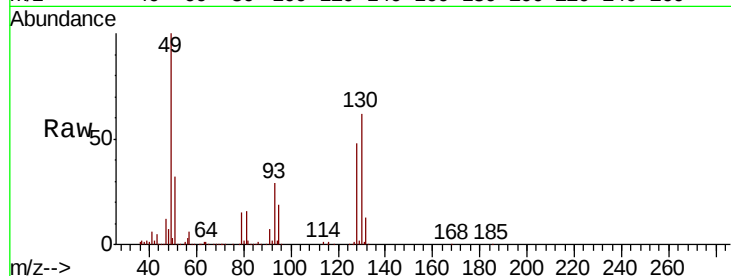
Tot Ion: 49 Resp: 1234482

Ion Ratio Lower Upper

49 100

128 48.2 23.3 69.8

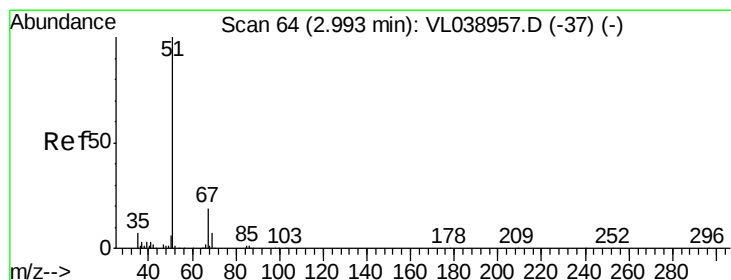
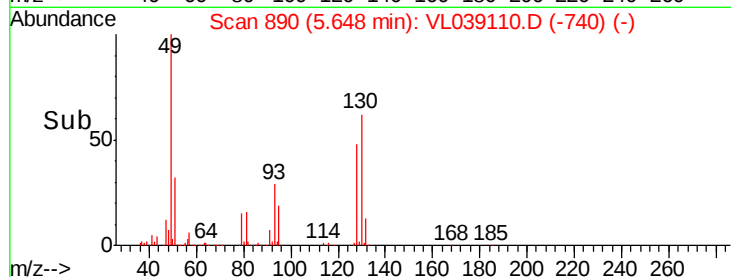
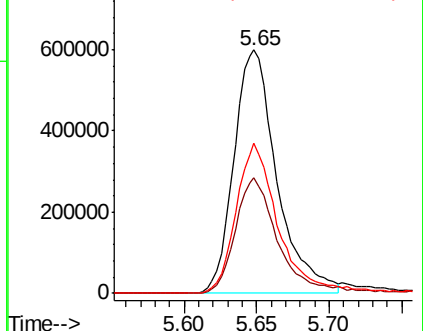
130 62.3 29.8 89.3



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



#3

Chlorodifluoromethane

Concen: 44.967 ppbv

RT: 2.92 min Scan# 40

Delta R.T. -0.08 min

Lab File: VL039110.D

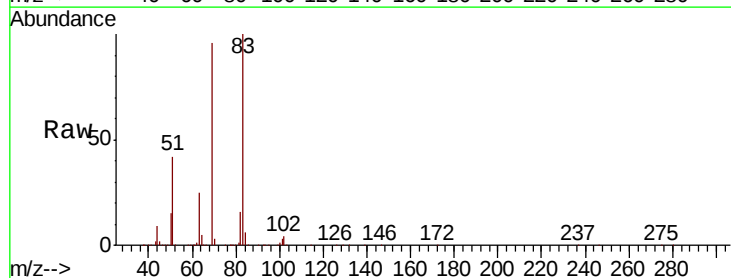
Acq: 24 May 2022 8:20

Tgt Ion: 51 Resp: 6888134

Ion Ratio Lower Upper

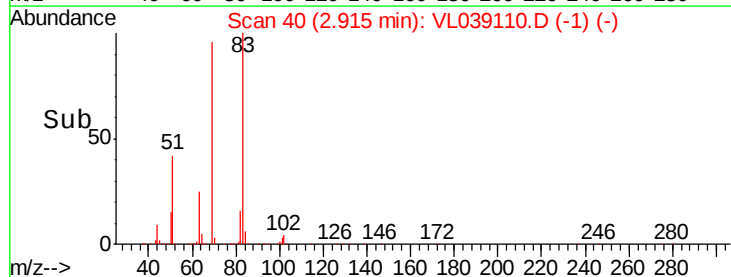
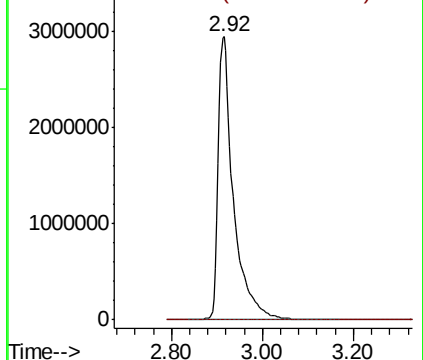
51 100

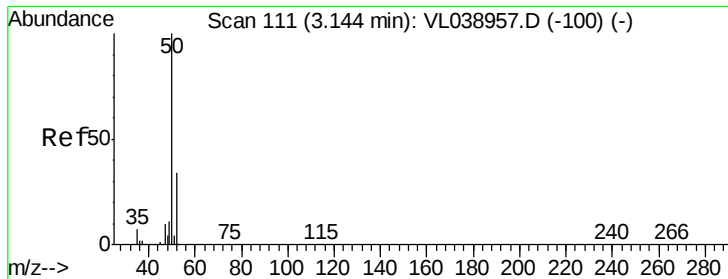
67 0.0 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 26.386 ppbv

RT: 2.92

Delta R.T. MSVOA_L

Lab File:

SG-2

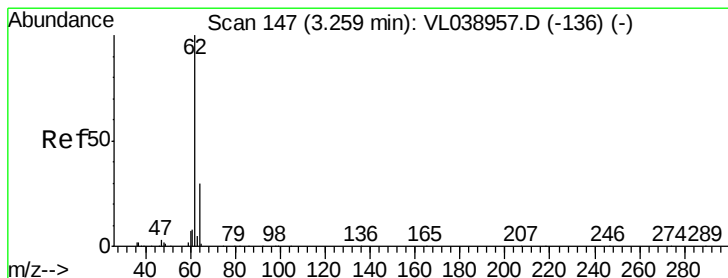
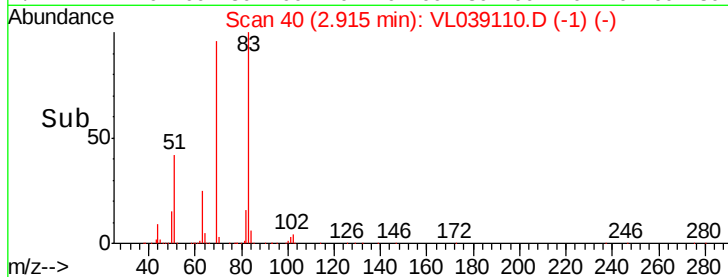
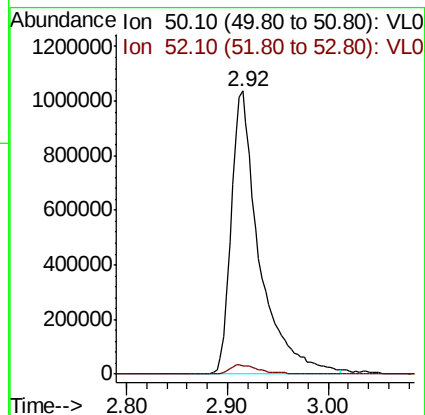
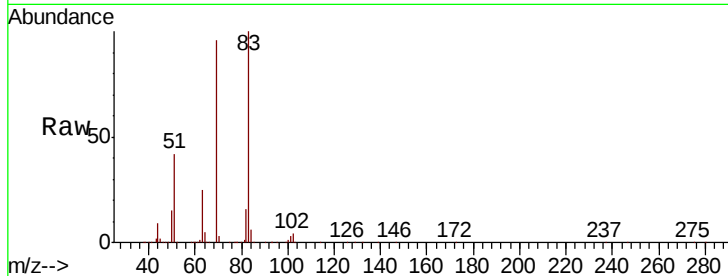
Acq: 24 May 2022 8:20

Tot Ion: 50 Resp: 2024170

Ion Ratio Lower Upper

50 100

52 3.0 27.3 40.9#



#5

Vinyl Chloride

Concen: 0.031 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.28 min

Lab File: VL039110.D

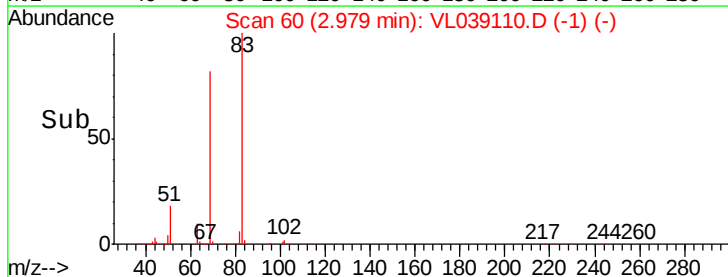
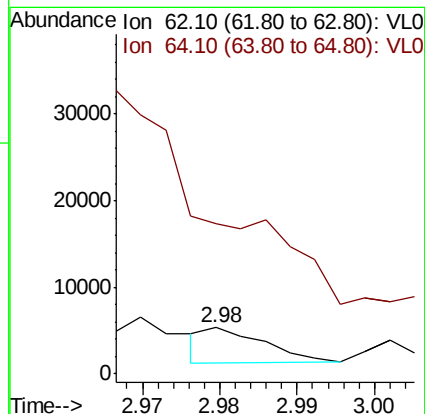
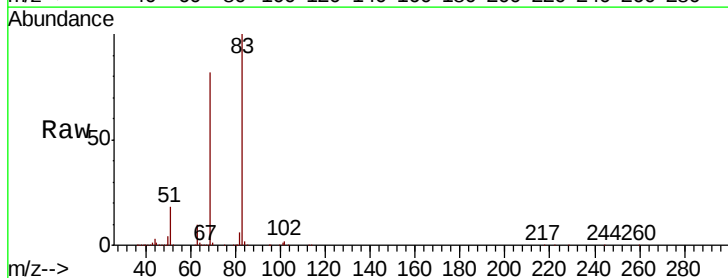
Acq: 24 May 2022 8:20

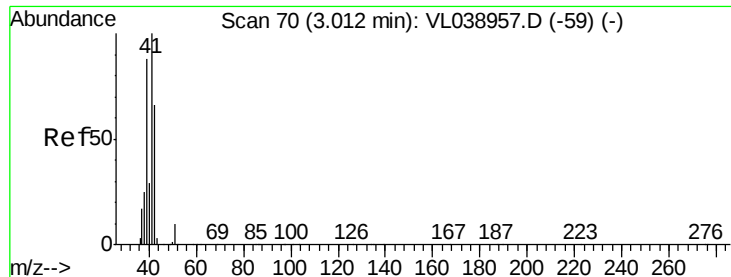
Tgt Ion: 62 Resp: 2160

Ion Ratio Lower Upper

62 100

64 239.8 24.2 36.4#





#9

Propene

Concen: 2.818 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

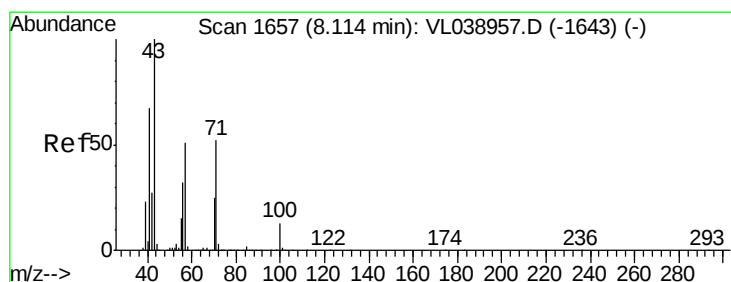
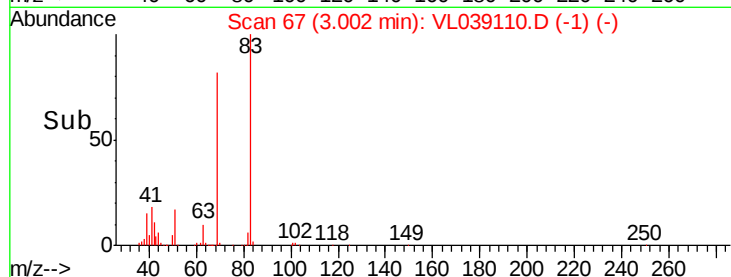
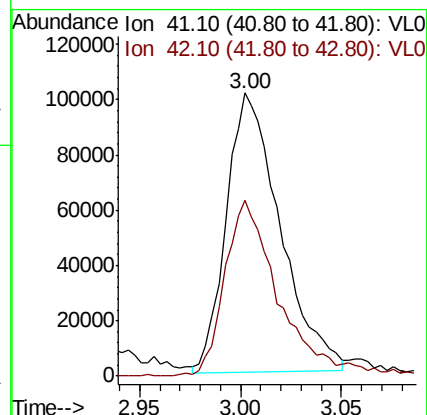
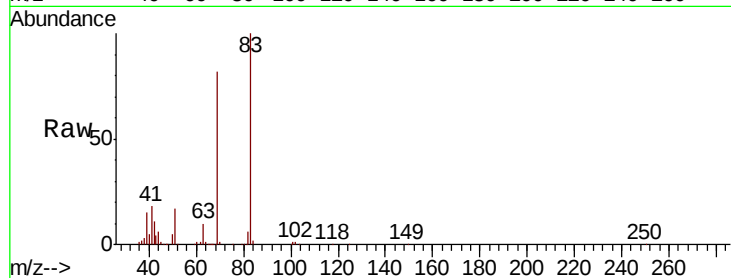
Acq: 24 May 2022 8:20

Tot Ion: 41 Resp: 188542

Ion Ratio Lower Upper

41 100

42 63.3 58.3 87.5



#10

Heptane

Concen: 1.275 ppbv

RT: 8.10 min Scan# 1651

Delta R.T. -0.02 min

Lab File: VL039110.D

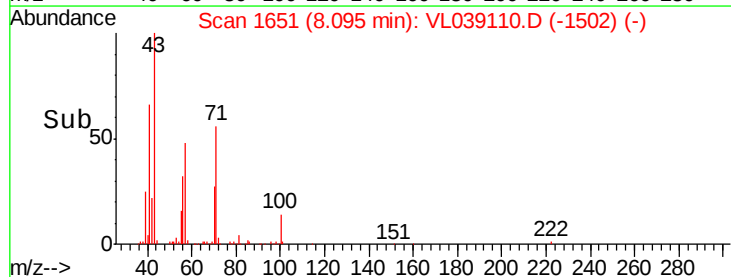
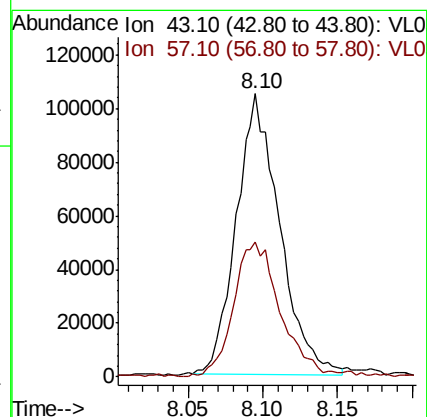
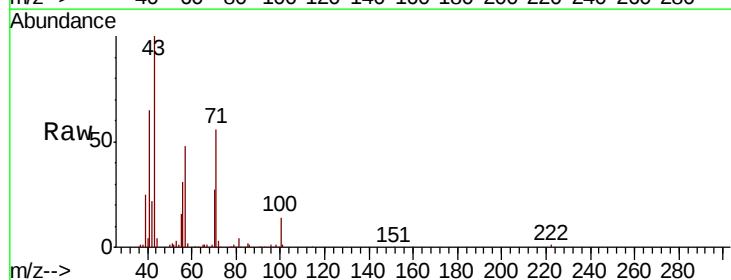
Acq: 24 May 2022 8:20

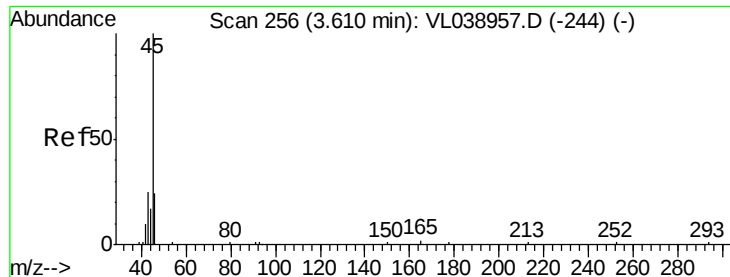
Tgt Ion: 43 Resp: 209314

Ion Ratio Lower Upper

43 100

57 52.9 40.5 60.7





#13

Ethanol

Concen: 245.526 ppbv

RT: 3.59 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

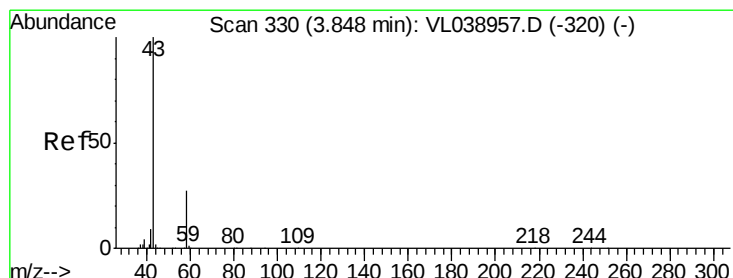
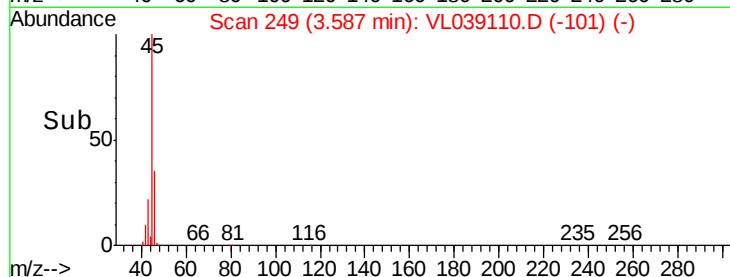
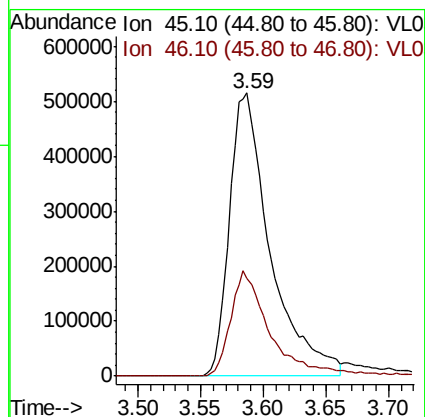
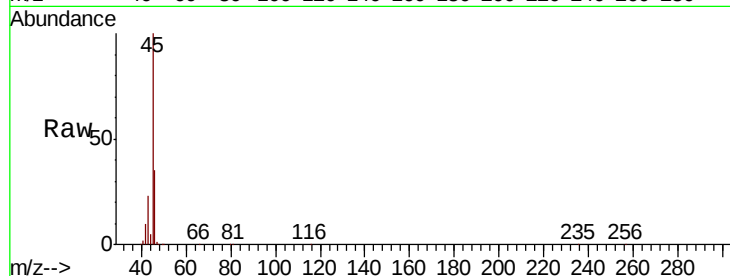
Acq: 24 May 2022 8:20

Tot Ion: 45 Resp: 1162343

Ion Ratio Lower Upper

45 100

46 36.6 18.0 72.2



#15

Acetone

Concen: 77.734 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.02 min

Lab File: VL039110.D

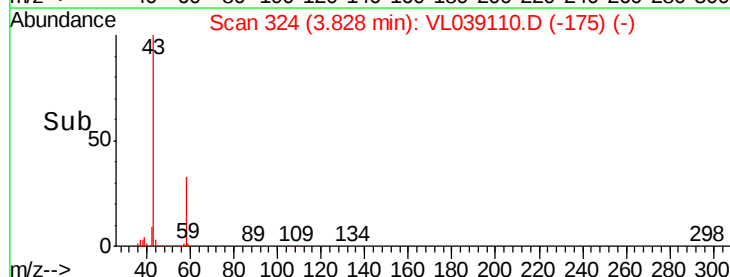
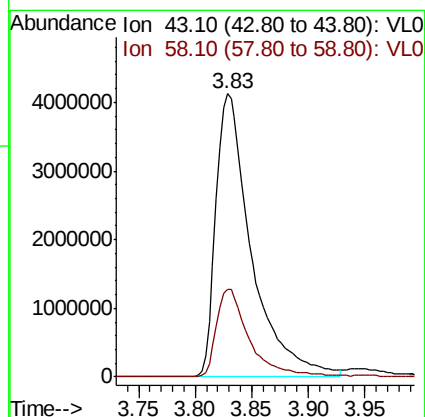
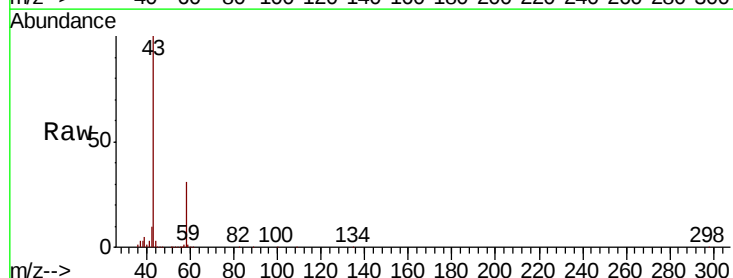
Acq: 24 May 2022 8:20

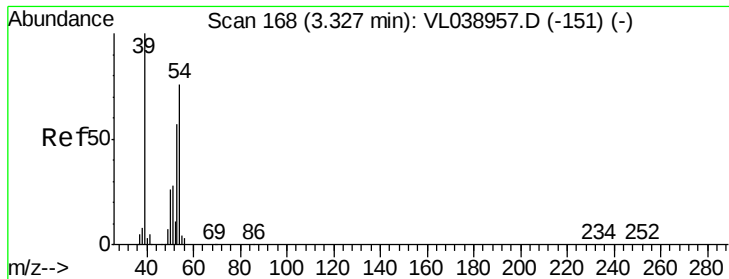
Tgt Ion: 43 Resp: 9052033

Ion Ratio Lower Upper

43 100

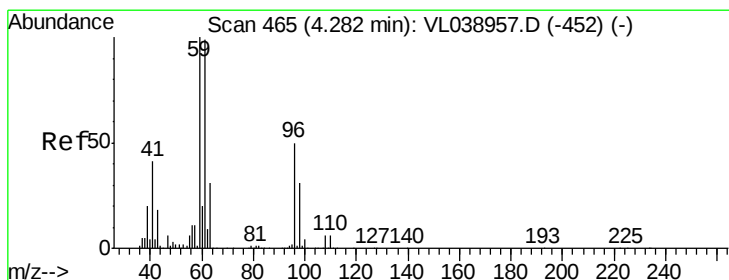
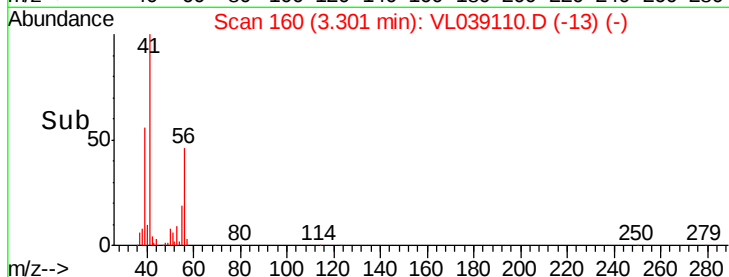
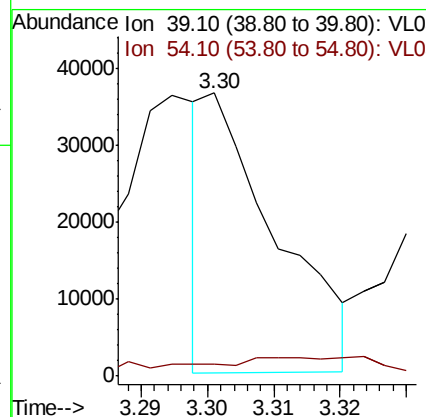
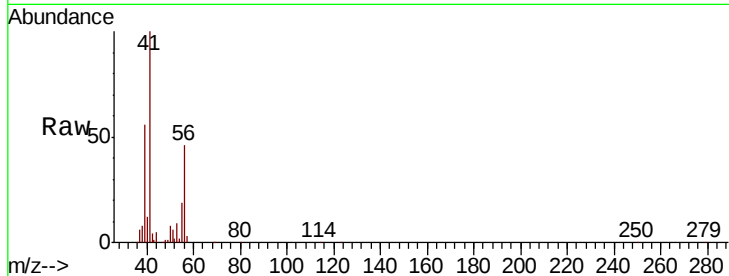
58 29.6 21.3 31.9





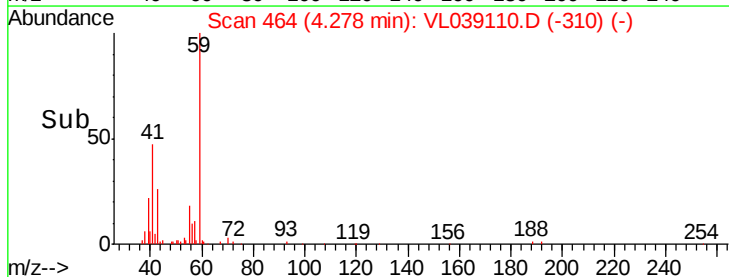
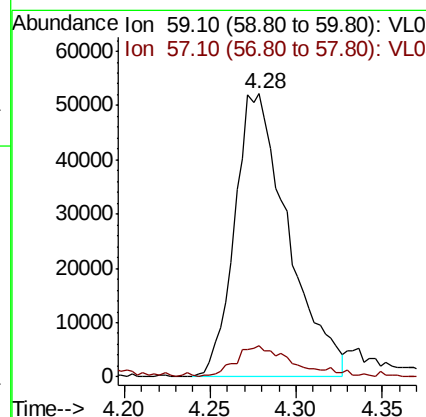
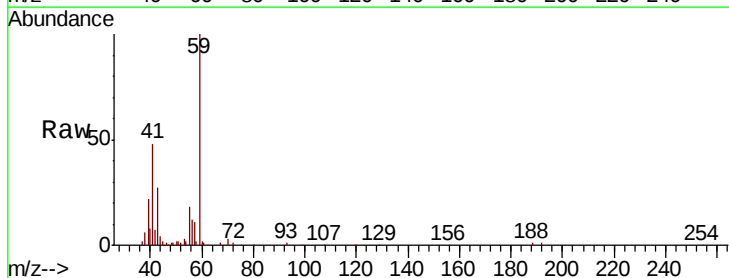
#16
 1,3-Butadiene
 Concen: 0.406 ppbv
 RT: 3.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SG-2
 Acq: 24 May 2022 8:20

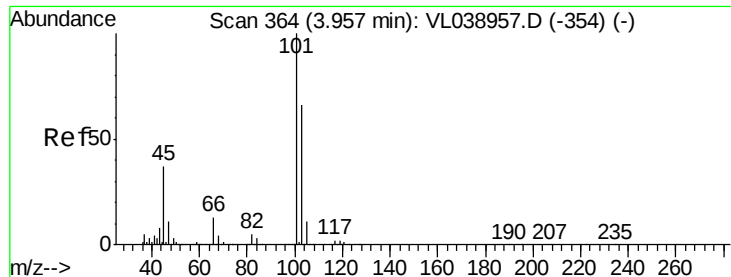
Tot Ion: 39 Resp: 27157
 Ion Ratio Lower Upper
 39 100
 54 0.0 65.2 97.8#



#17
 tert-Butyl alcohol
 Concen: 1.258 ppbv
 RT: 4.28 min Scan# 464
 Delta R.T. -0.00 min
 Lab File: VL039110.D
 Acq: 24 May 2022 8:20

Tgt Ion: 59 Resp: 112617
 Ion Ratio Lower Upper
 59 100
 57 12.4 9.2 13.8





#19

Isopropyl Alcohol

Concen: 8.816 ppbv

RT: 3.95 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-2

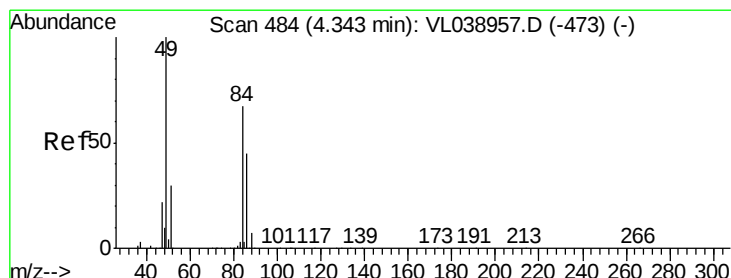
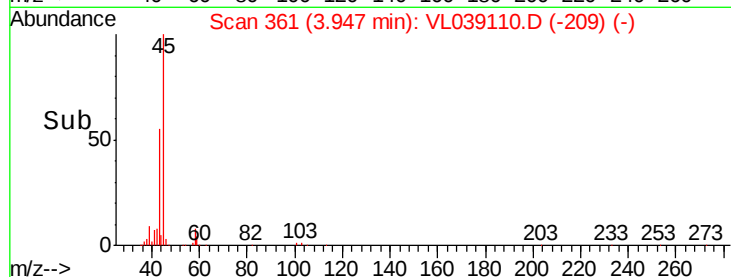
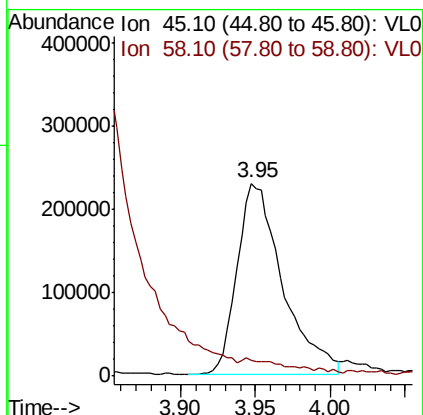
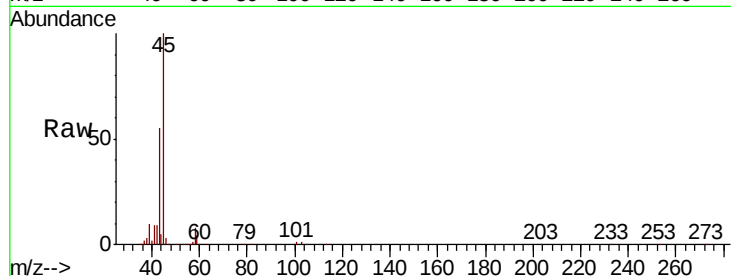
Acq: 24 May 2022 8:20

Tot Ion: 45 Resp: 488131

Ion Ratio Lower Upper

45 100

58 548.9 1.4 2.2#



#20

Methylene Chloride

Concen: 1.592 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL039110.D

Acq: 24 May 2022 8:20

Tgt Ion: 84 Resp: 69883

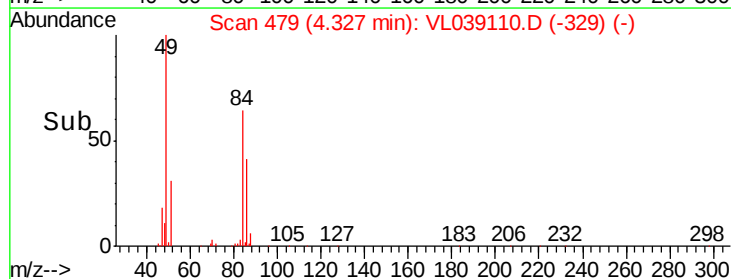
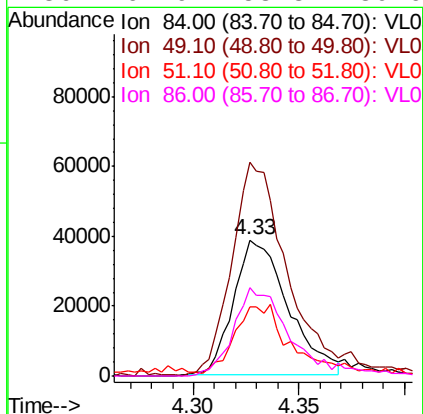
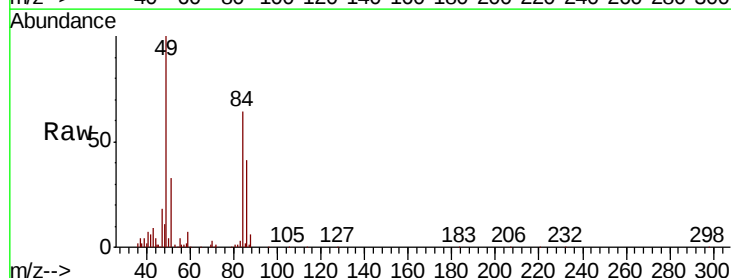
Ion Ratio Lower Upper

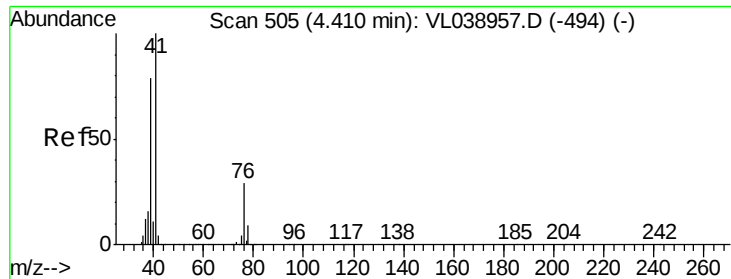
84 100

49 155.7 119.9 179.9

51 49.1 35.7 53.5

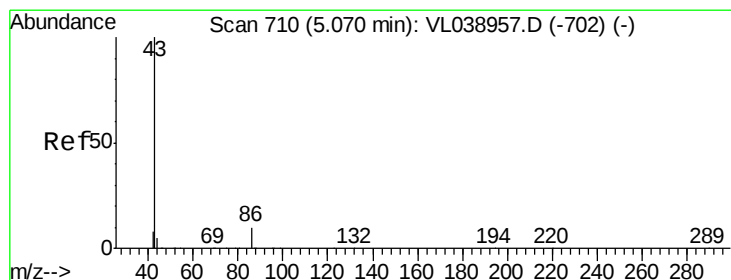
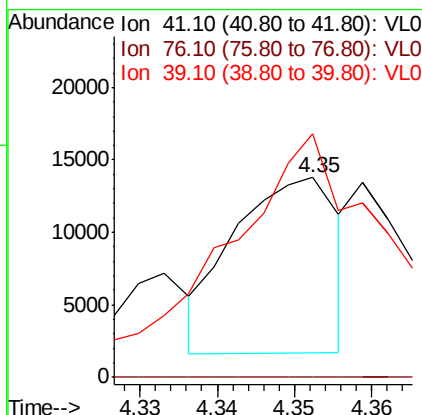
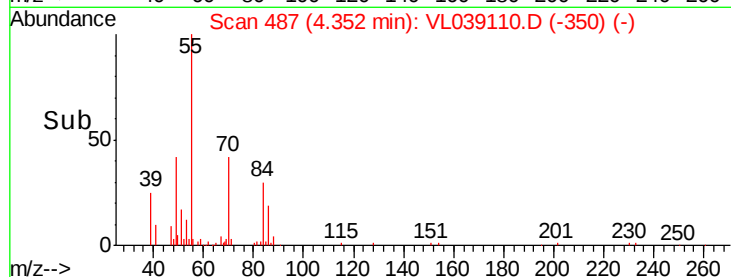
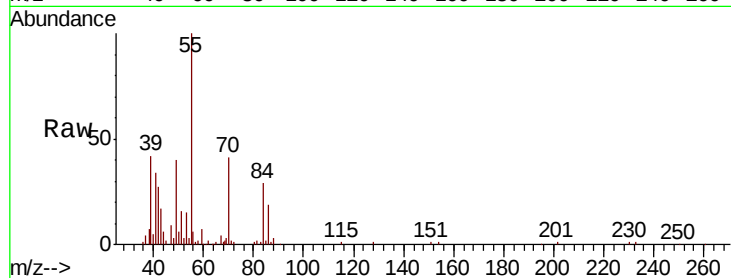
86 64.9 53.8 80.6





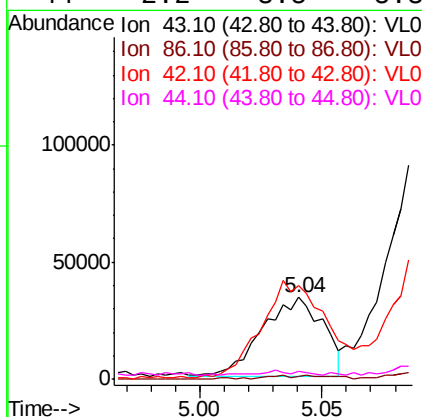
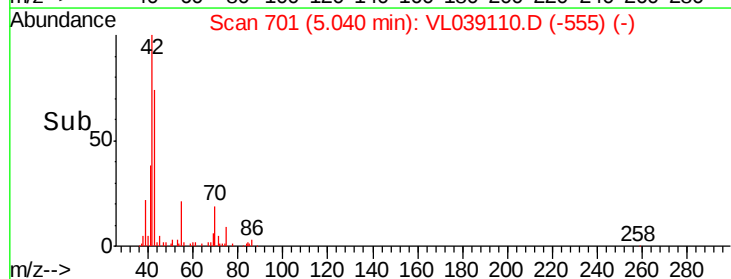
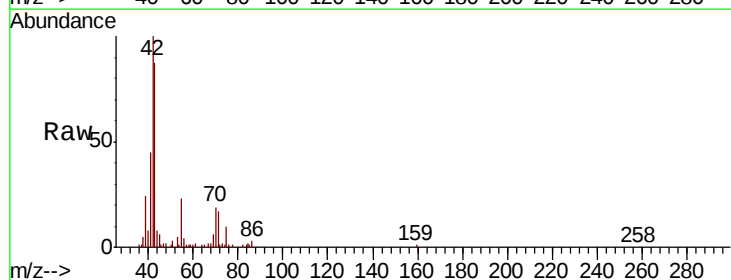
#21
Allvl Chloride
Concen: 0.143 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 May 2022 8:20

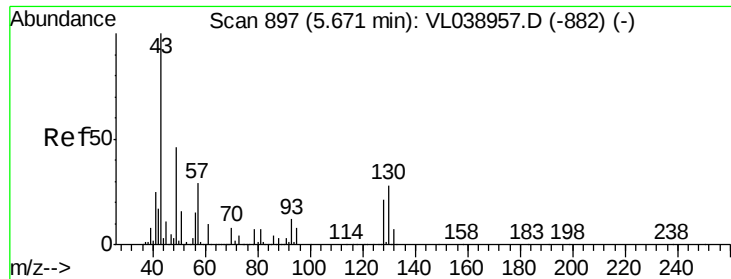
Tot Ion: 41 Resp: 11367
Ion Ratio Lower Upper
41 100
76 0.0 24.2 36.4#
39 258.8 63.8 95.8#



#23
Vinyl Acetate
Concen: 0.629 ppbv
RT: 5.04 min Scan# 701
Delta R.T. -0.03 min
Lab File: VL039110.D
Acq: 24 May 2022 8:20

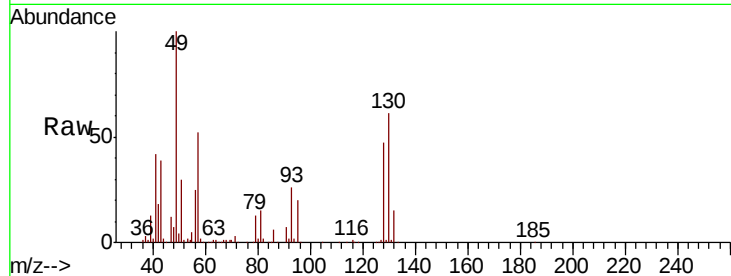
Tgt Ion: 43 Resp: 57981
Ion Ratio Lower Upper
43 100
86 3.3 6.6 9.8#
42 119.3 8.1 12.1#
44 2.2 3.5 5.3#





#25
Ethyl Acetate
Concen: 0.697 ppbv
RT: 5.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 May 2022 8:20

Tot Ion:	43	Resp:	194173
Ion	Ratio	Lower	Upper
43	100		
45	1.6	8.1	12.1#
61	0.7	7.8	11.6#
70	2.2	5.6	8.4#



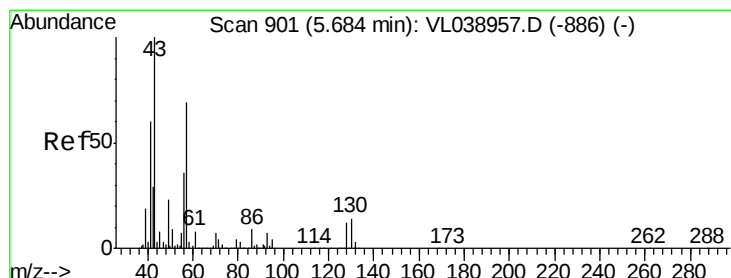
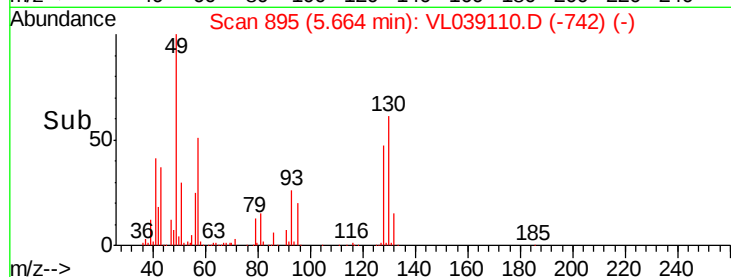
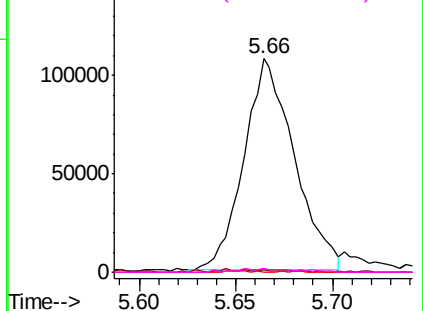
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

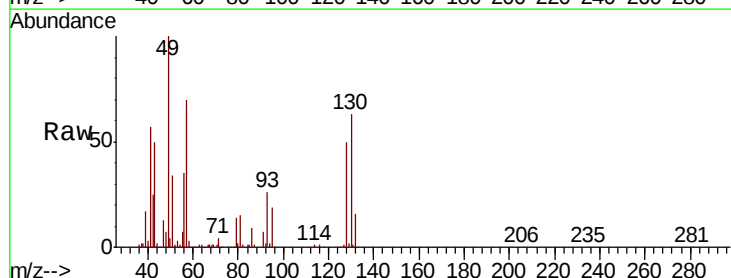
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 2.255 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL039110.D
Acq: 24 May 2022 8:20

Tgt Ion:	57	Resp:	279233
Ion	Ratio	Lower	Upper
57	100		
41	88.6	75.2	112.8
43	75.9	190.8	286.2#
56	52.2	43.0	64.6



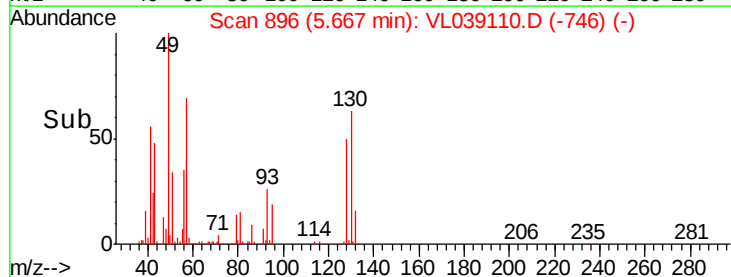
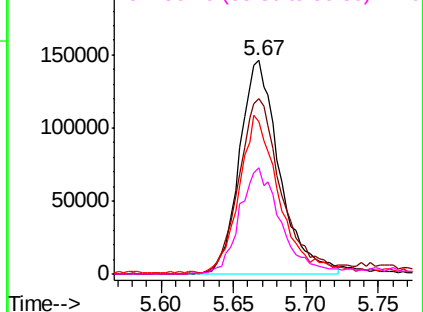
Abundance

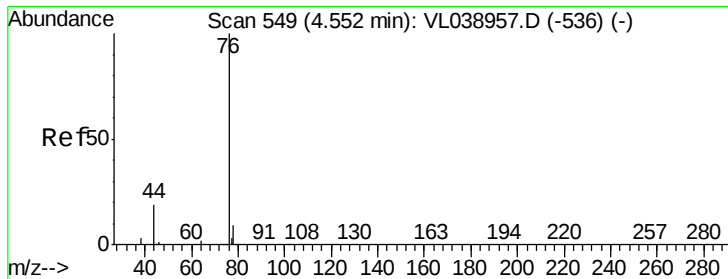
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

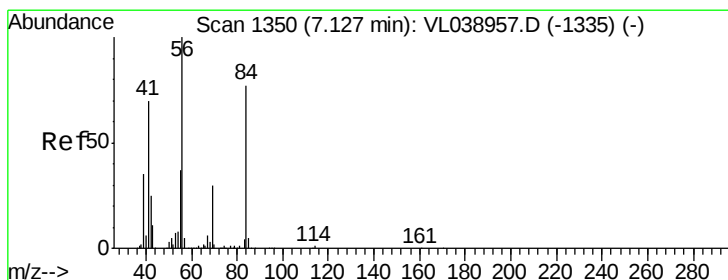
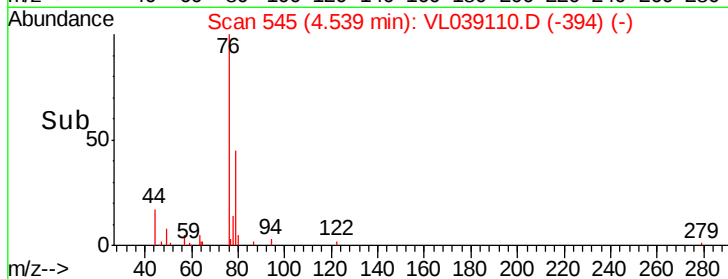
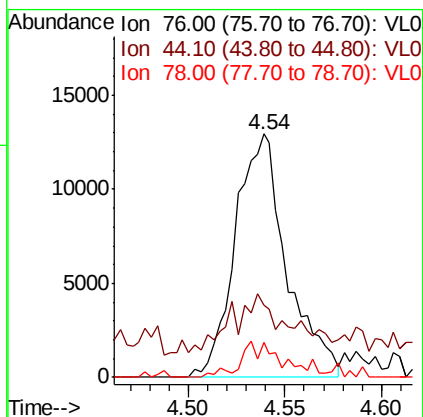
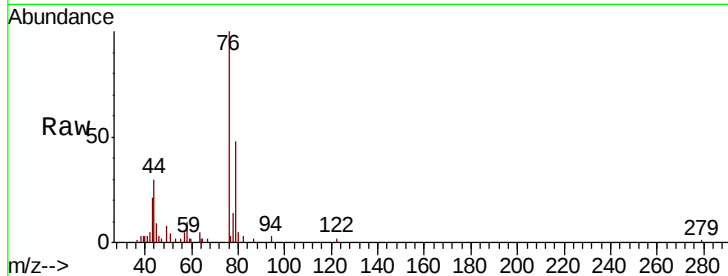
Ion 56.10 (55.80 to 56.80): VL0





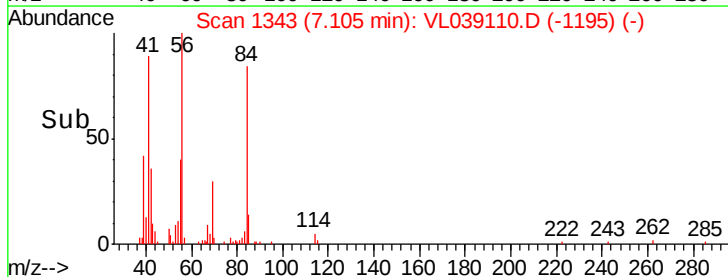
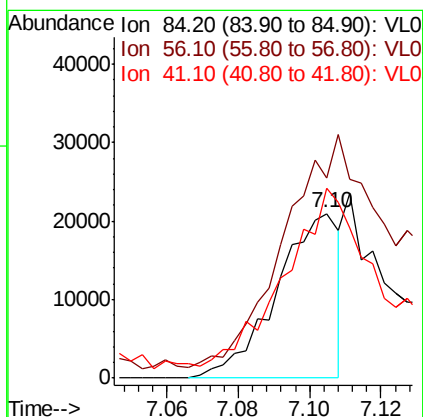
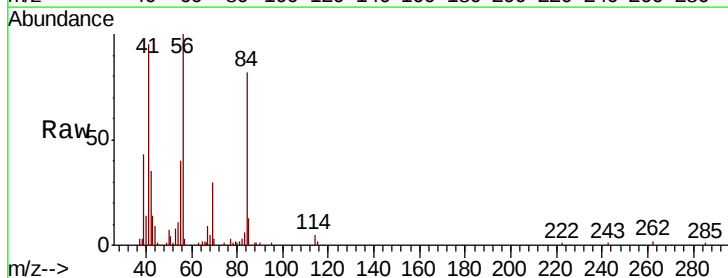
#27
Carbon Disulfide
Concen: 0.204 ppbv
RT: 4.54 Instrument: MSVOA_1
Delta R.T.: ClientSampleId:
Lab File: SG-2
Acq: 24 May 2022 8:20

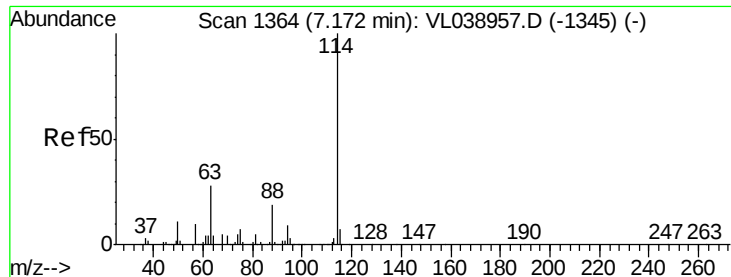
Tot Ion	Ratio	Lower	Upper
76	100		
44	34.3	15.3	22.9#
78	12.9	8.2	12.2#



#30
Cyclohexane
Concen: 0.246 ppbv
RT: 7.10 min Scan# 1343
Delta R.T. -0.02 min
Lab File: VL039110.D
Acq: 24 May 2022 8:20

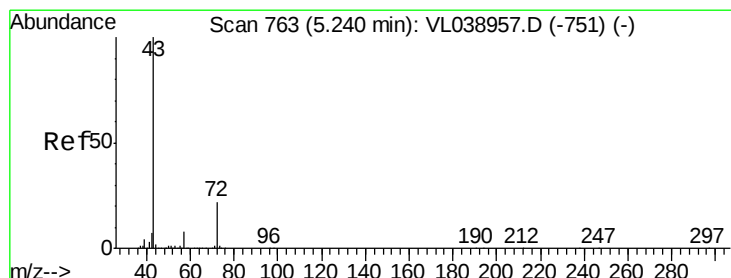
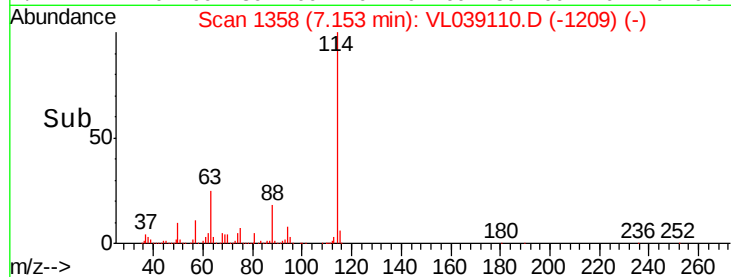
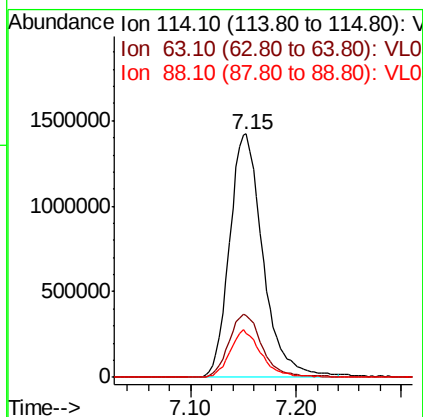
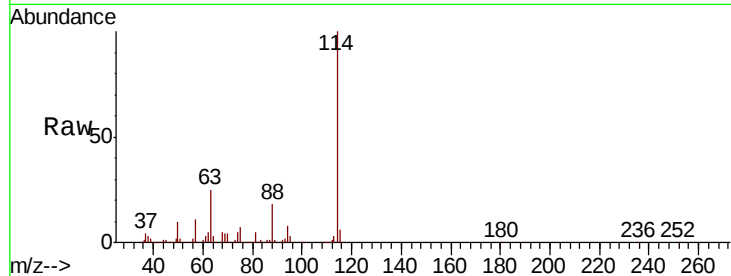
Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	115.3	172.9#
41	166.4	72.0	108.0#





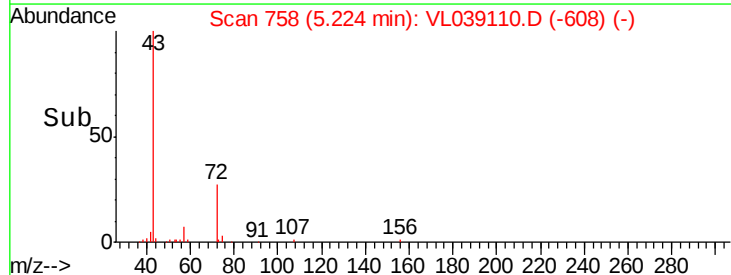
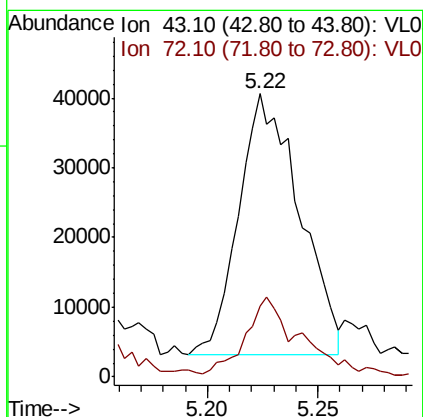
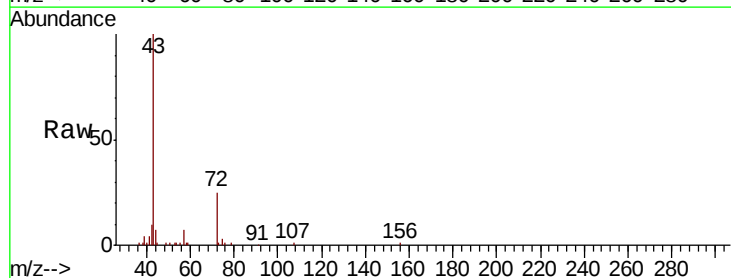
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 May 2022 8:20

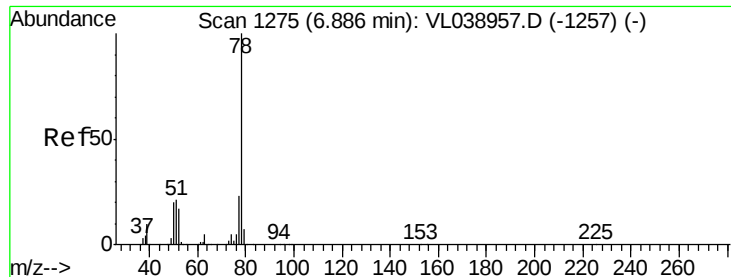
Tot Ion:114 Resp: 3121675
 Ion Ratio Lower Upper
 114 100
 63 26.1 22.6 33.8
 88 18.5 15.4 23.0



#34
 2-Butanone
 Concen: 0.447 ppbv
 RT: 5.22 min Scan# 758
 Delta R.T. -0.02 min
 Lab File: VL039110.D
 Acq: 24 May 2022 8:20

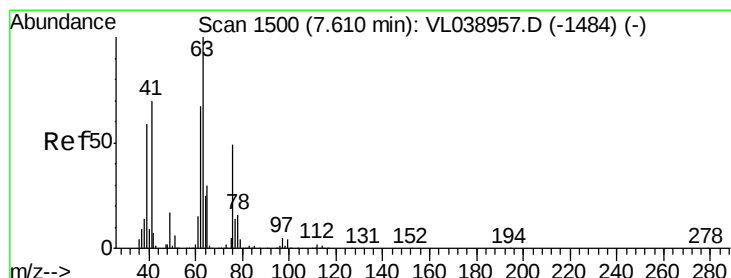
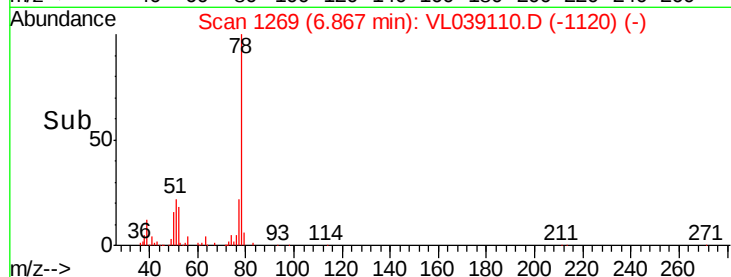
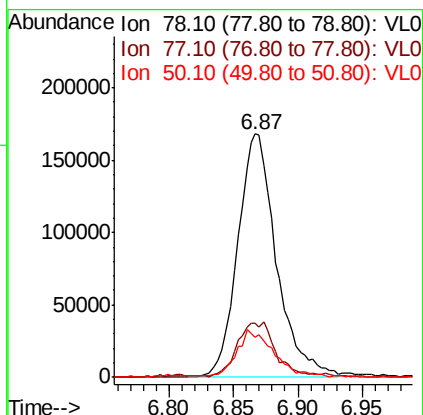
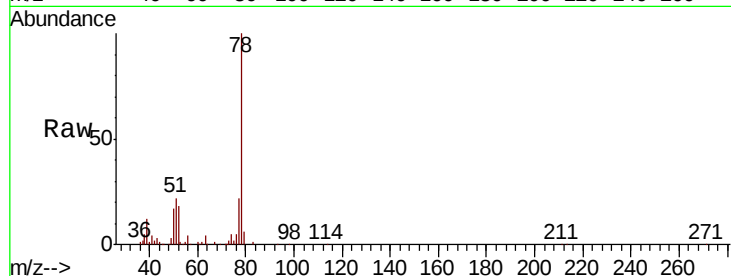
Tgt Ion: 43 Resp: 71262
 Ion Ratio Lower Upper
 43 100
 72 31.2 17.8 26.6#





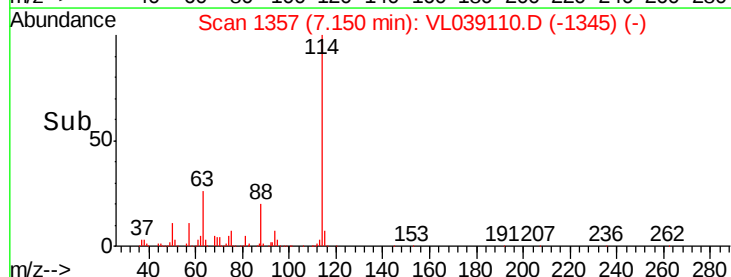
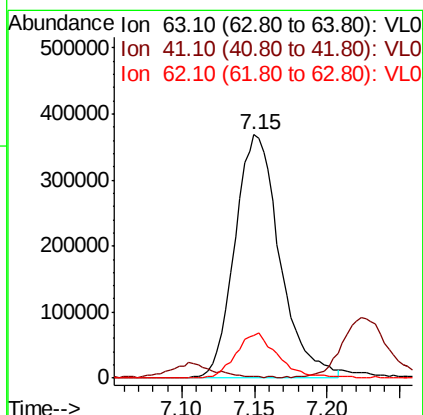
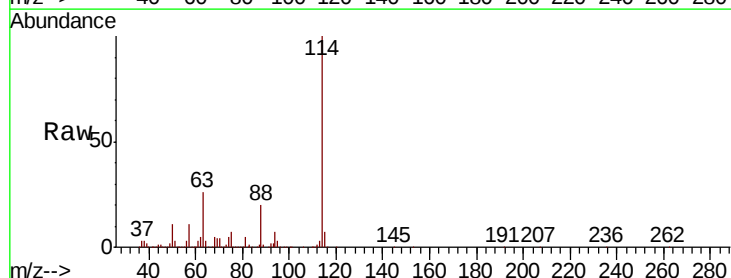
#36
Benzene
Concen: 1.310 ppbv
RT: 6.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 May 2022 8:20

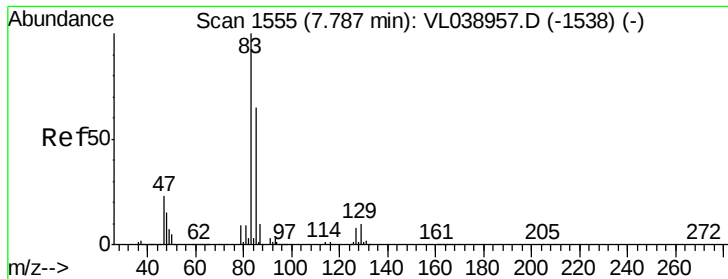
Tot Ion	Ratio	Lower	Upper
78	100		
77	21.6	18.6	28.0
50	15.9	15.6	23.4



#39
1,2-Dichloropropane
Concen: 7.632 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.46 min
Lab File: VL039110.D
Acq: 24 May 2022 8:20

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.9	83.9#
62	17.4	53.8	80.6#





#42

Bromodichloromethane

Concen: 0.036 ppbv

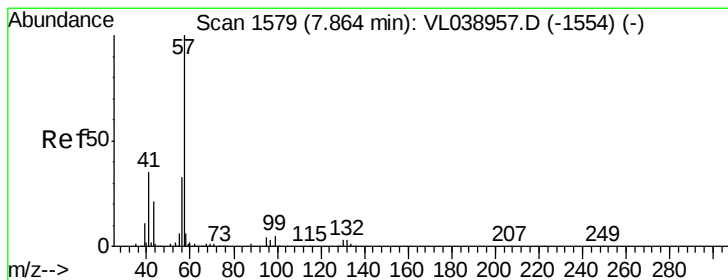
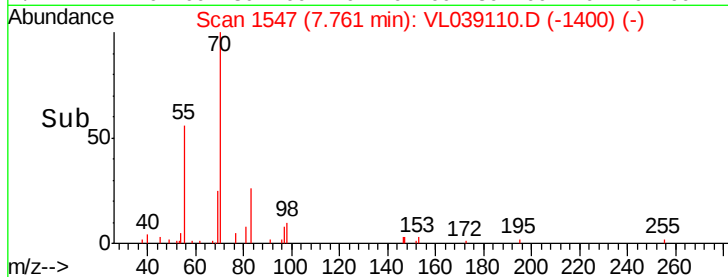
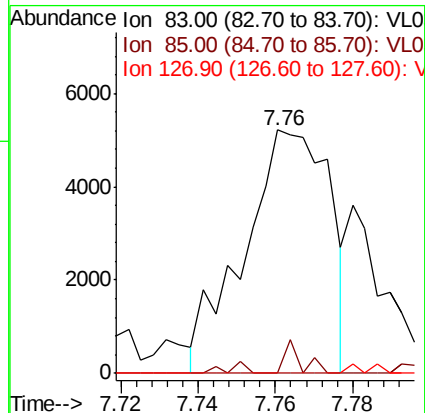
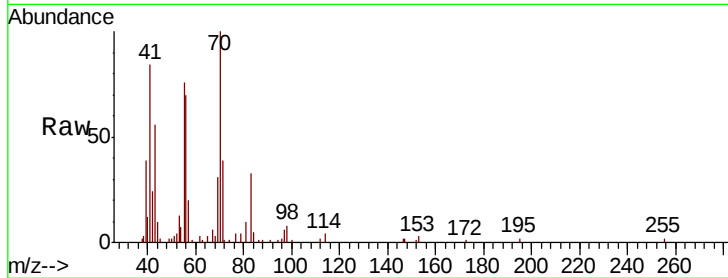
RT: 7.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 May 2022 8:20

Tot Ion	83	Resp	8049
Ion	Ratio	Lower	Upper
83	100		
85	0.0	52.0	78.0#
127	0.0	6.0	9.0#



#44

2,2,4-Trimethylpentane

Concen: 1.353 ppbv

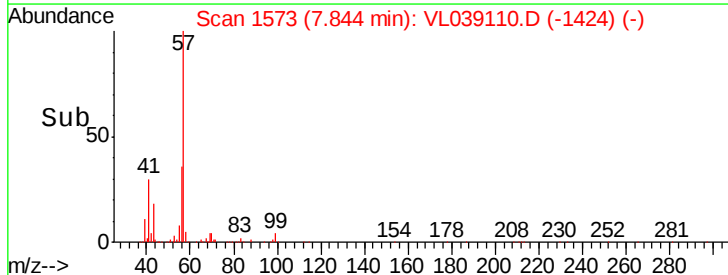
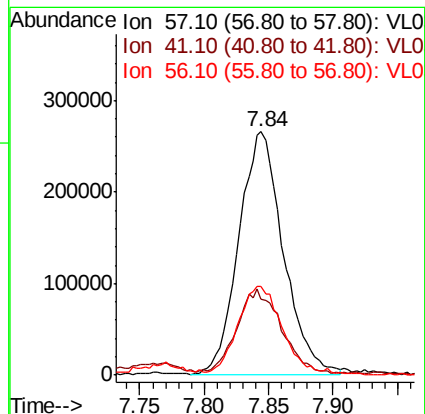
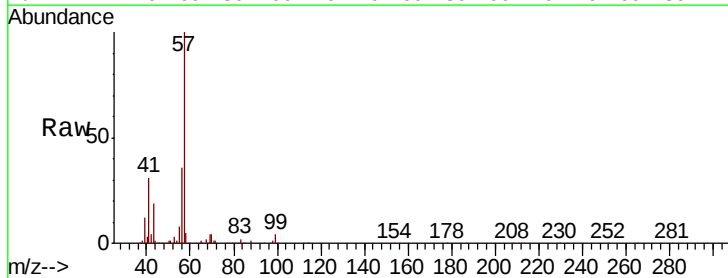
RT: 7.84 min Scan# 1573

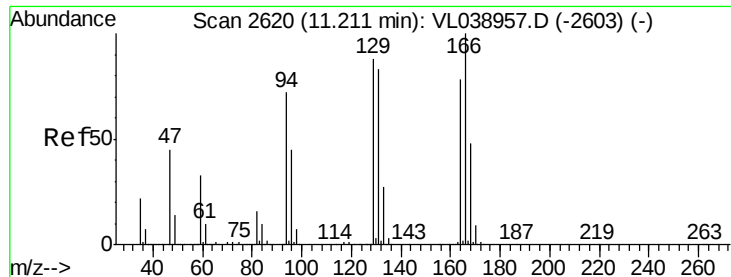
Delta R.T. -0.02 min

Lab File: VL039110.D

Acq: 24 May 2022 8:20

Tgt Ion	57	Resp	634451
Ion	Ratio	Lower	Upper
57	100		
41	35.0	26.3	39.5
56	37.4	24.6	37.0#





#52

Tetrachloroethene

Concen: 0.815 ppbv

RT: 11.19

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 May 2022 8:20

Tot Ion:164 Resp: 77811

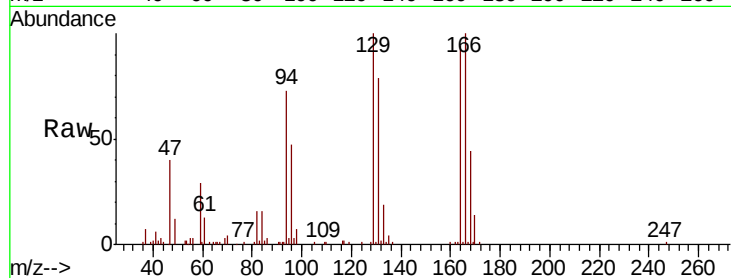
Ion Ratio Lower Upper

164 100

166 106.8 102.5 153.7

129 106.7 90.1 135.1

131 84.5 84.8 127.2#



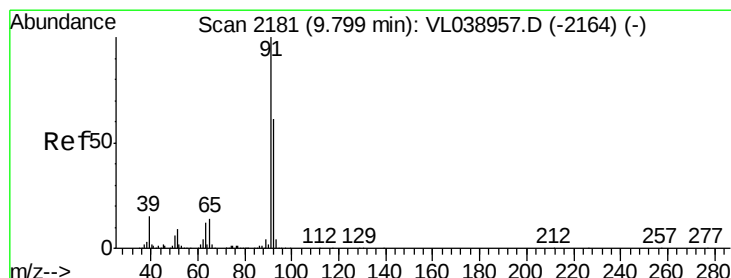
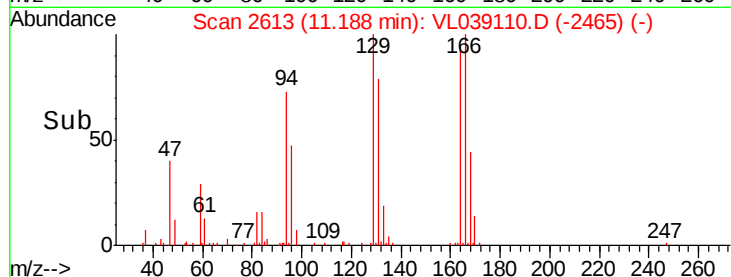
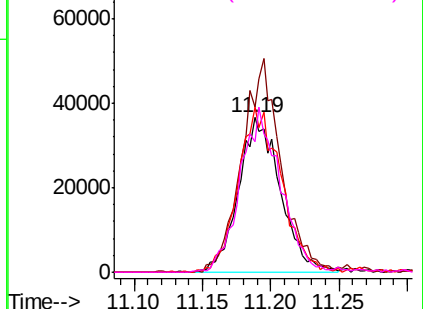
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 5.951 ppbv

RT: 9.77 min Scan# 2173

Delta R.T. -0.03 min

Lab File: VL039110.D

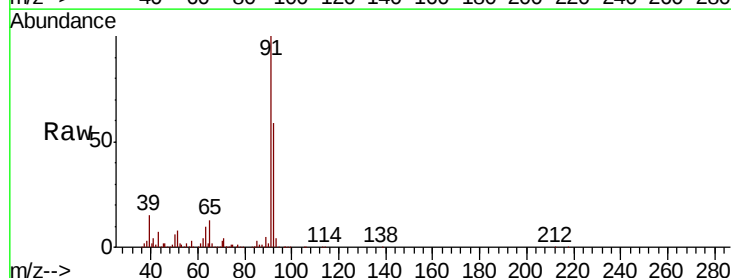
Acq: 24 May 2022 8:20

Tgt Ion: 91 Resp: 1781815

Ion Ratio Lower Upper

91 100

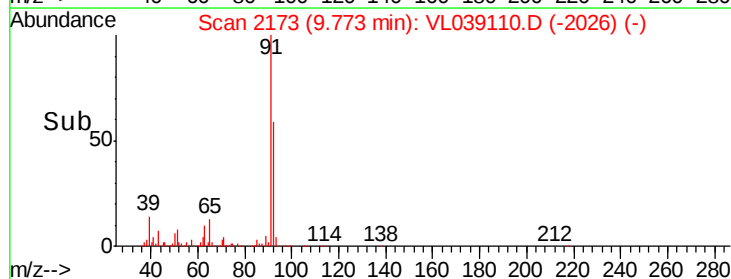
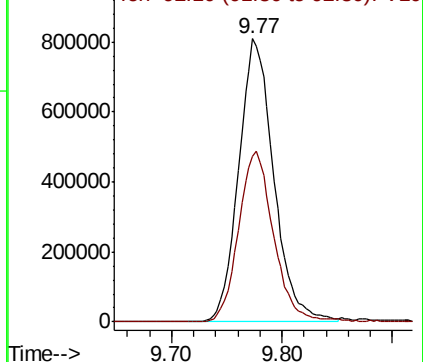
92 60.8 48.2 72.2

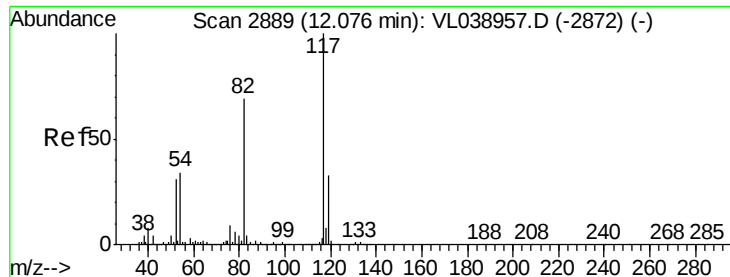


Abundance

Ion 91.10 (90.80 to 91.80): VL0

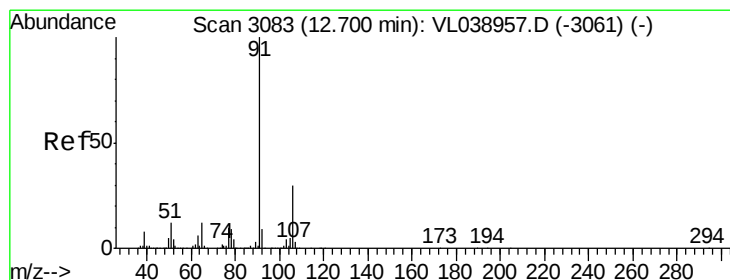
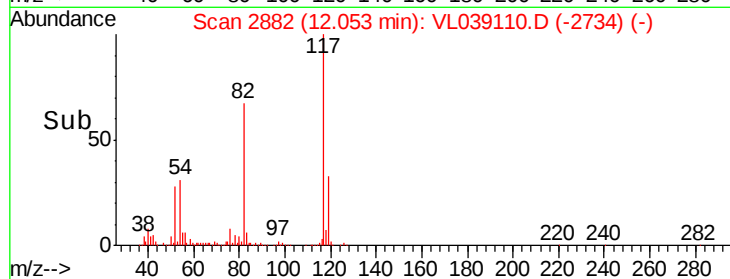
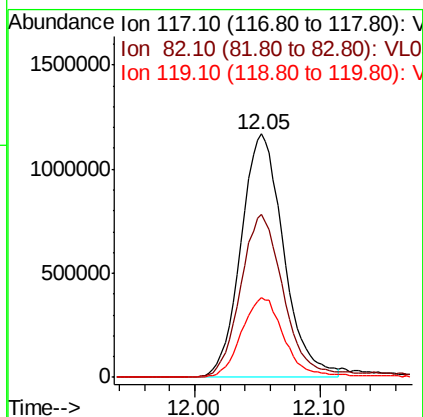
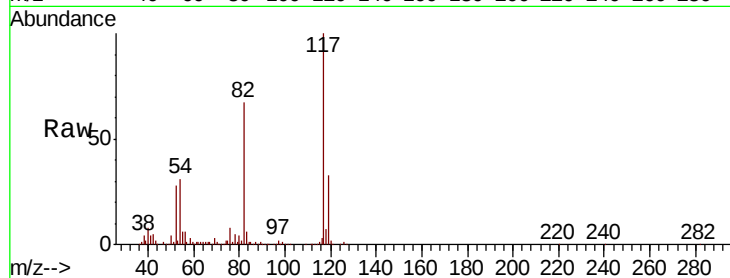
Ion 92.10 (91.80 to 92.80): VL0





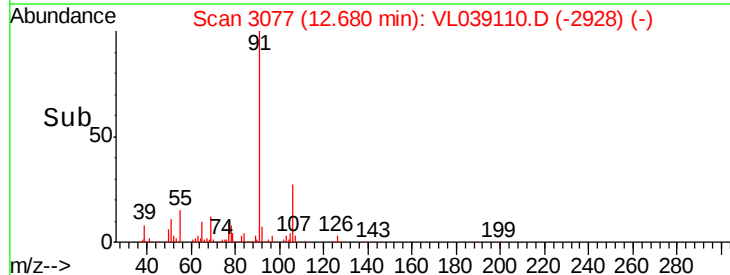
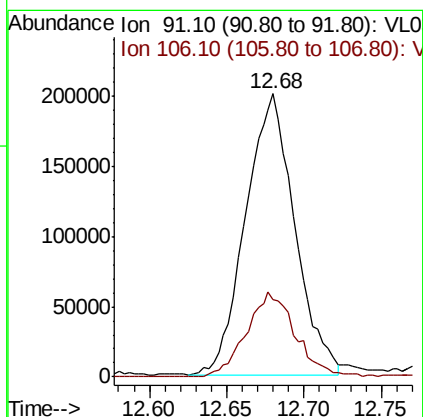
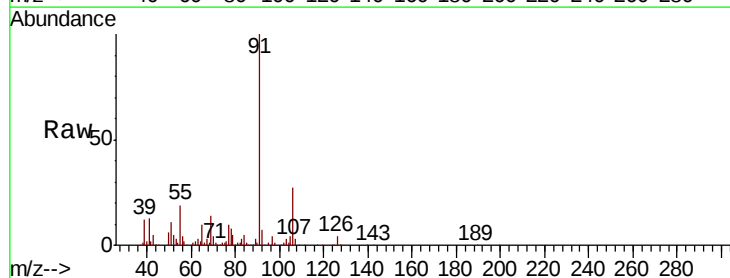
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 24 May 2022 8:20

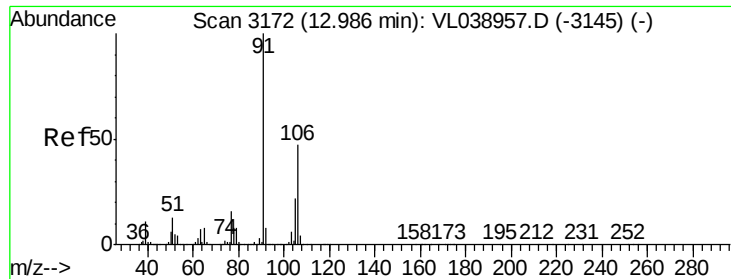
Tot Ion:117 Resp: 2752157
Ion Ratio Lower Upper
117 100
82 68.2 57.0 85.6
119 34.3 27.2 40.8



#58
Ethyl Benzene
Concen: 1.114 ppbv
RT: 12.68 min Scan# 3077
Delta R.T. -0.02 min
Lab File: VL039110.D
Acq: 24 May 2022 8:20

Tgt Ion: 91 Resp: 441172
Ion Ratio Lower Upper
91 100
106 27.6 24.2 36.4





#59

m/p-Xylene

Concen: 1.220 ppbv

RT: 12.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

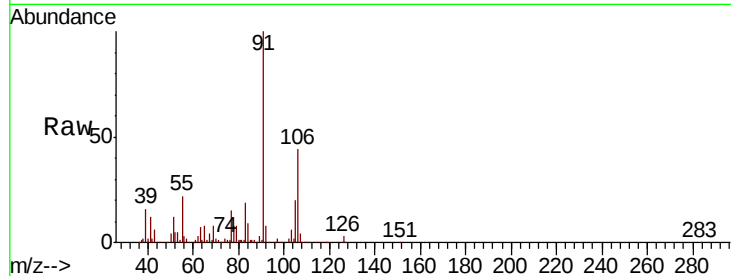
Acq: 24 May 2022 8:20

Tot Ion: 91 Resp: 412479

Ion Ratio Lower Upper

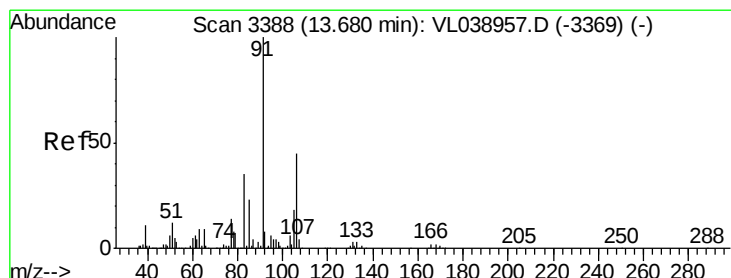
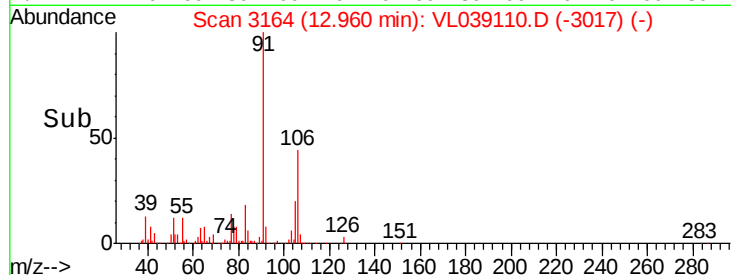
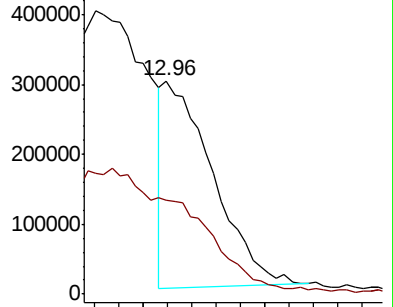
91 100

106 0.0 34.6 52.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.805 ppbv

RT: 13.66 min Scan# 3381

Delta R.T. -0.02 min

Lab File: VL039110.D

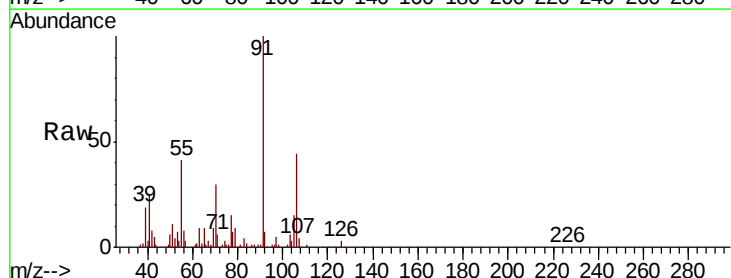
Acq: 24 May 2022 8:20

Tgt Ion: 91 Resp: 256329

Ion Ratio Lower Upper

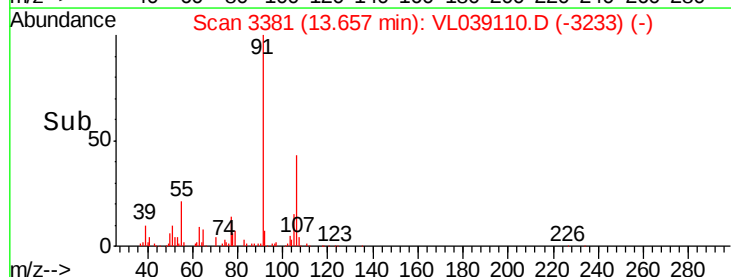
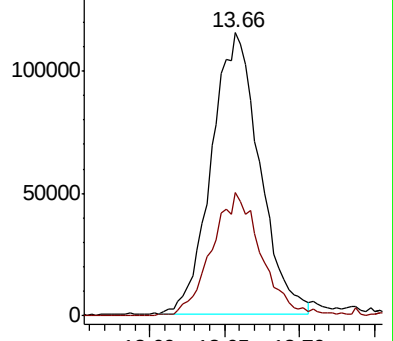
91 100

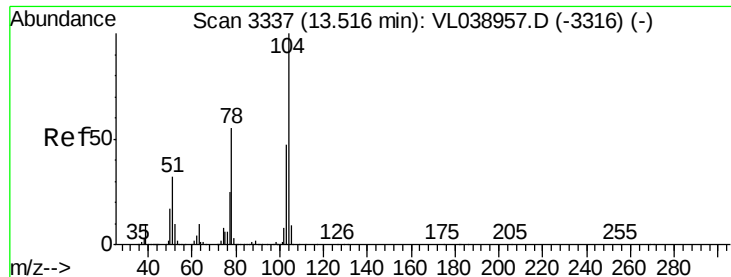
106 45.6 22.2 66.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

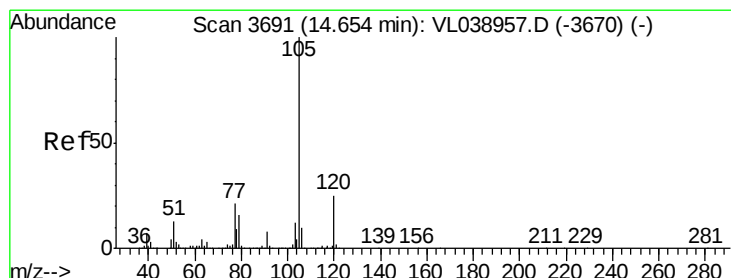
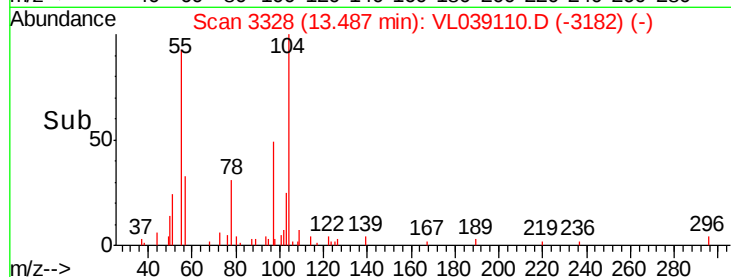
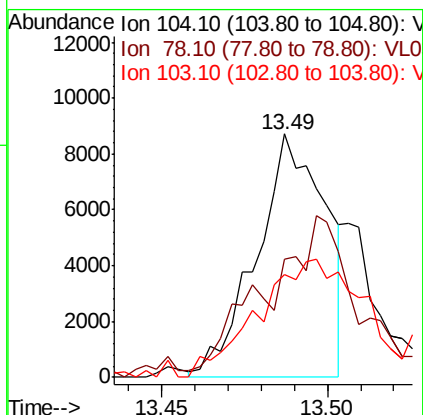
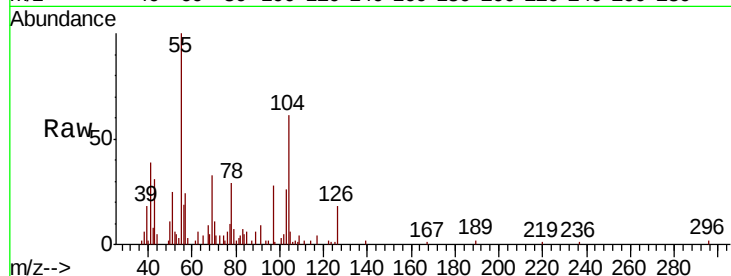
Ion 106.10 (105.80 to 106.80): V





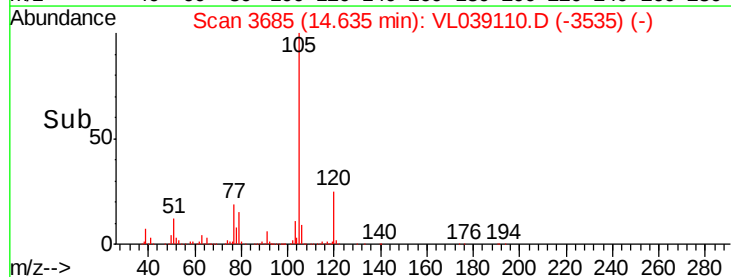
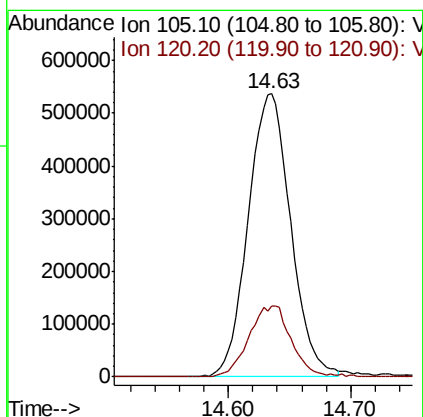
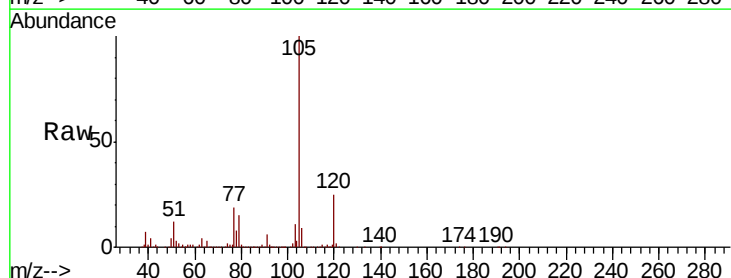
#61
Stvrene
Concen: 0.074 ppbv
RT: 13.49
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 May 2022 8:20

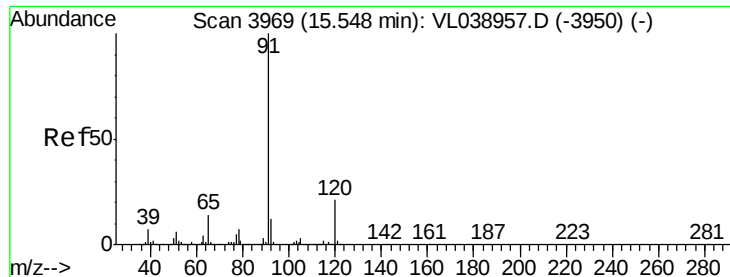
Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	46.4	69.6#
103	0.0	39.3	58.9#



#62
Isopropylbenzene
Concen: 2.780 ppbv
RT: 14.63 min Scan# 3685
Delta R.T. -0.02 min
Lab File: VL039110.D
Acq: 24 May 2022 8:20

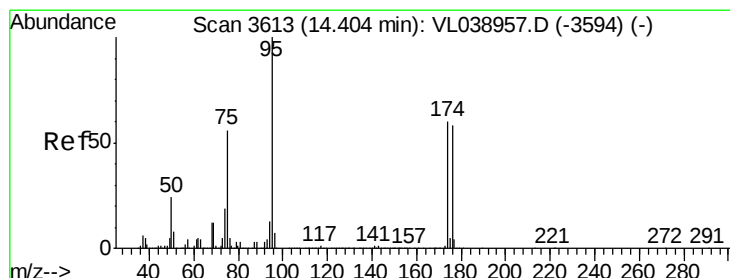
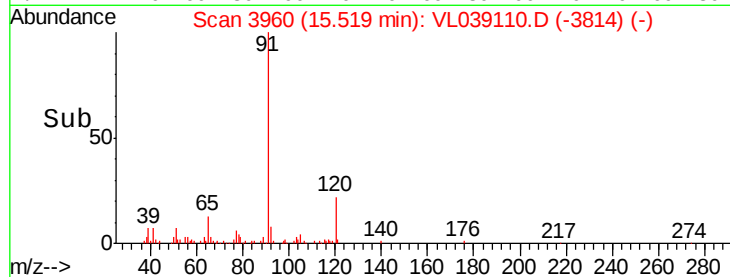
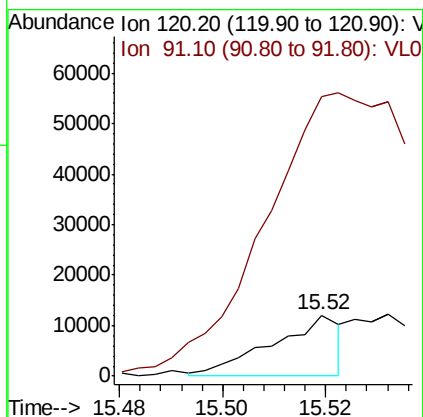
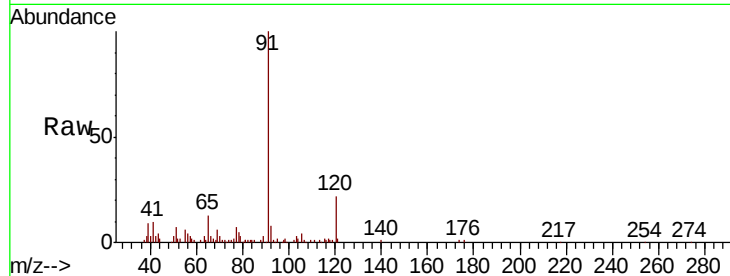
Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.5	30.7





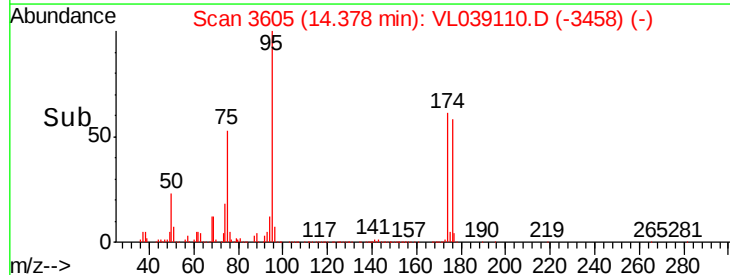
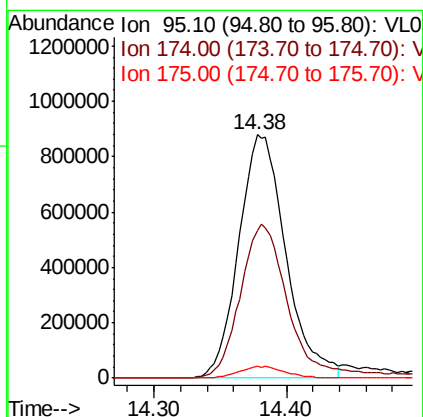
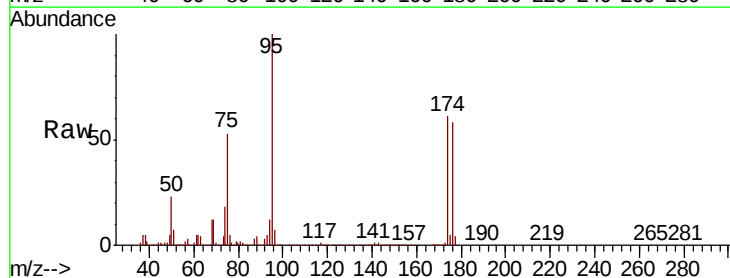
#64
n-propylbenzene
Concen: 0.098 ppbv
RT: 15.52 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : SG-2
Acq: 24 May 2022 8:20

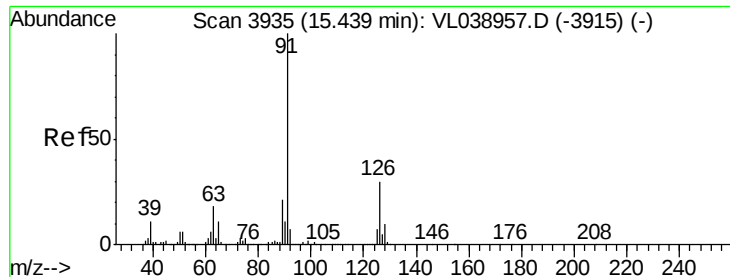
Tot Ion: 120 Resp: 11023
Ion Ratio Lower Upper
120 100
91 1279.4 400.6 601.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.941 ppbv
RT: 14.38 min Scan# 3605
Delta R.T.: -0.03 min
Lab File: VL039110.D
Acq: 24 May 2022 8:20

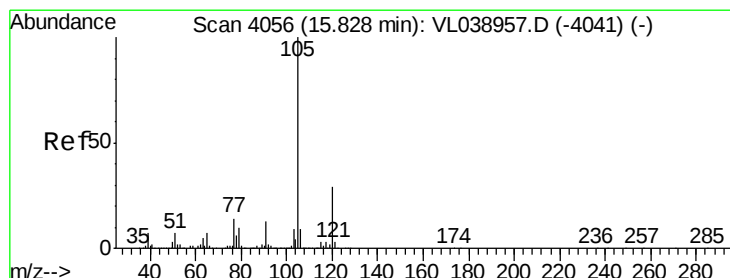
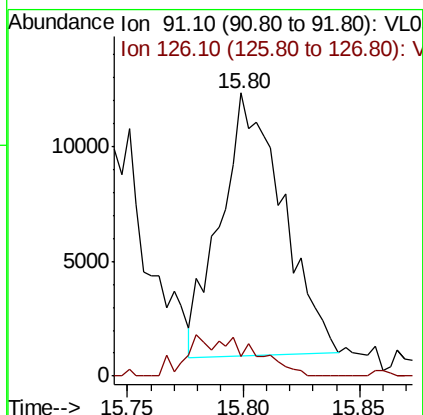
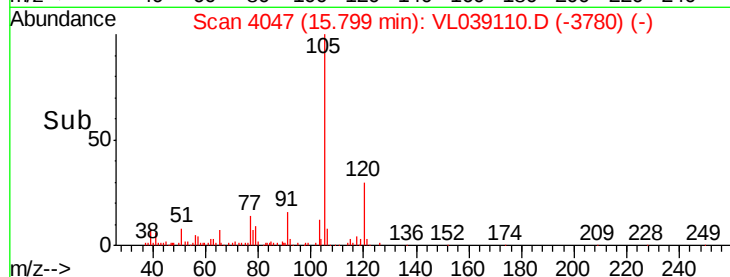
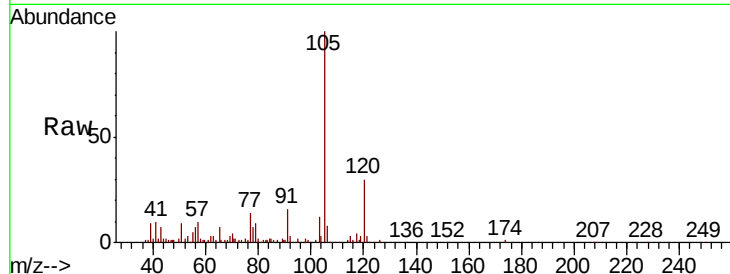
Tgt Ion: 95 Resp: 2166802
Ion Ratio Lower Upper
95 100
174 67.6 50.8 76.2
175 4.7 3.8 5.6





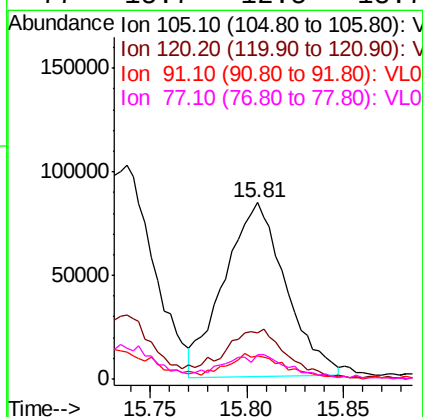
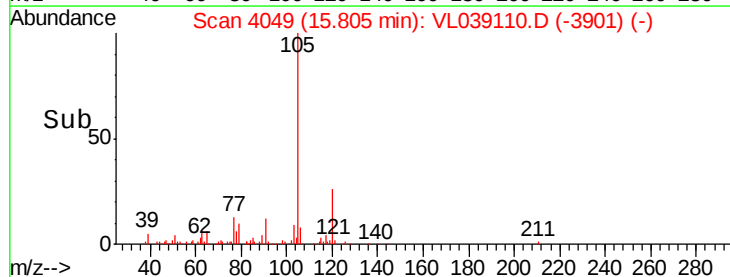
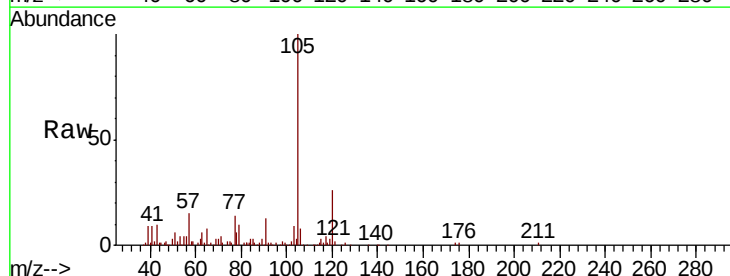
#71
 2-Chlorotoluene
 Concen: 0.059 ppbv
 RT: 15.80
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 May 2022 8:20

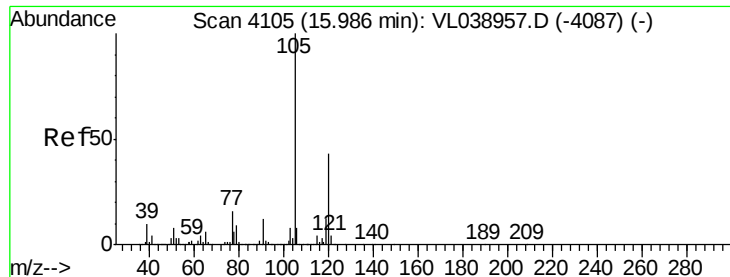
Tot Ion: 91 Resp: 21261
 Ion Ratio Lower Upper
 91 100
 126 16.5 11.9 47.5



#72
 4-Ethyltoluene
 Concen: 0.513 ppbv
 RT: 15.81 min Scan# 4049
 Delta R.T. -0.02 min
 Lab File: VL039110.D
 Acq: 24 May 2022 8:20

Tgt Ion:105 Resp: 185857
 Ion Ratio Lower Upper
 105 100
 120 29.8 23.4 35.0
 91 13.5 10.6 16.0
 77 15.7 12.5 18.7





#73

1,3,5-Trimethylbenzene

Concen: 0.137 ppbv

RT: 15.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

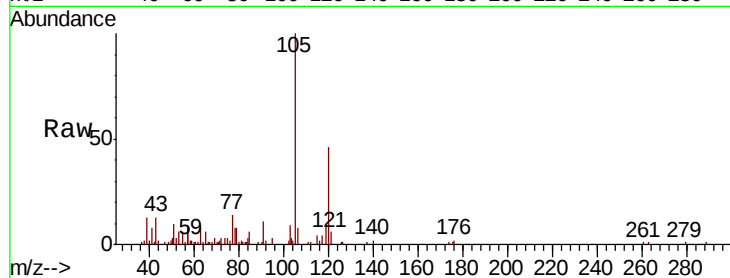
Acq: 24 May 2022 8:20

Tot Ion:105 Resp: 44806

Ion Ratio Lower Upper

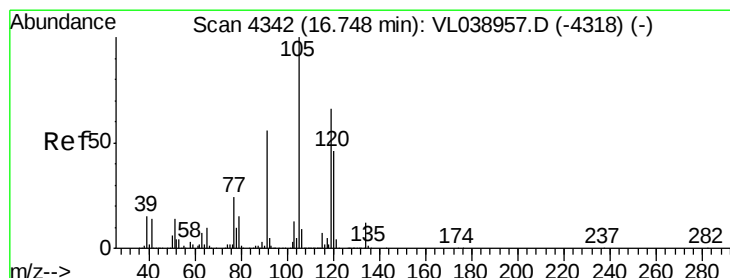
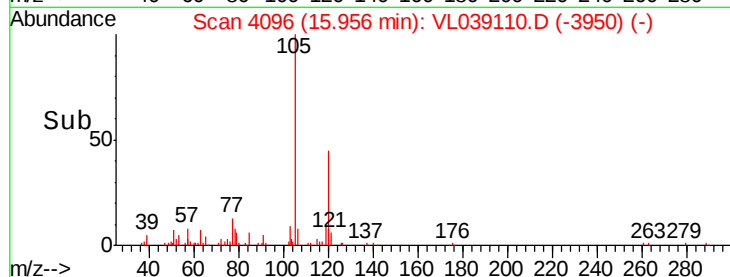
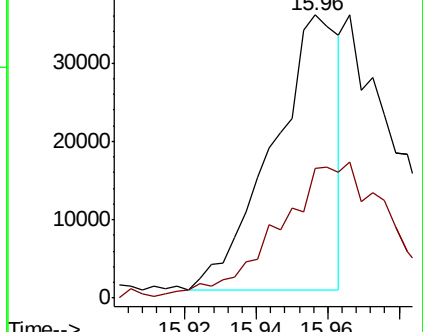
105 100

120 44.5 34.4 51.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.802 ppbv

RT: 16.72 min Scan# 4335

Delta R.T. -0.02 min

Lab File: VL039110.D

Acq: 24 May 2022 8:20

Tgt Ion:105 Resp: 286618

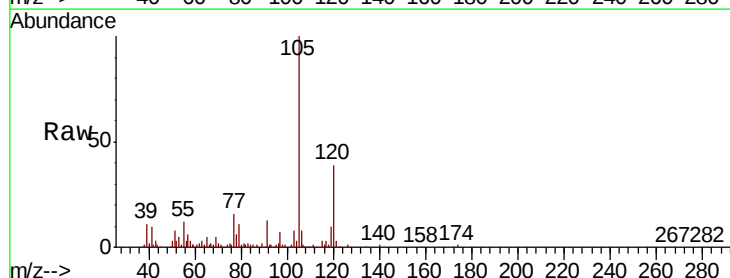
Ion Ratio Lower Upper

105 100

120 39.4 36.9 55.3

91 11.9 45.0 67.4#

77 13.8 19.2 28.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

