

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
 Data File : VL038397.D
 Acq On : 22 Feb 2022 20:53
 Operator : SY/AP
 Sample : N1607-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DUP-1DL

Quant Time: Mar 14 08:02:08 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	904994	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2173031	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	1967434	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1621562	9.96	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

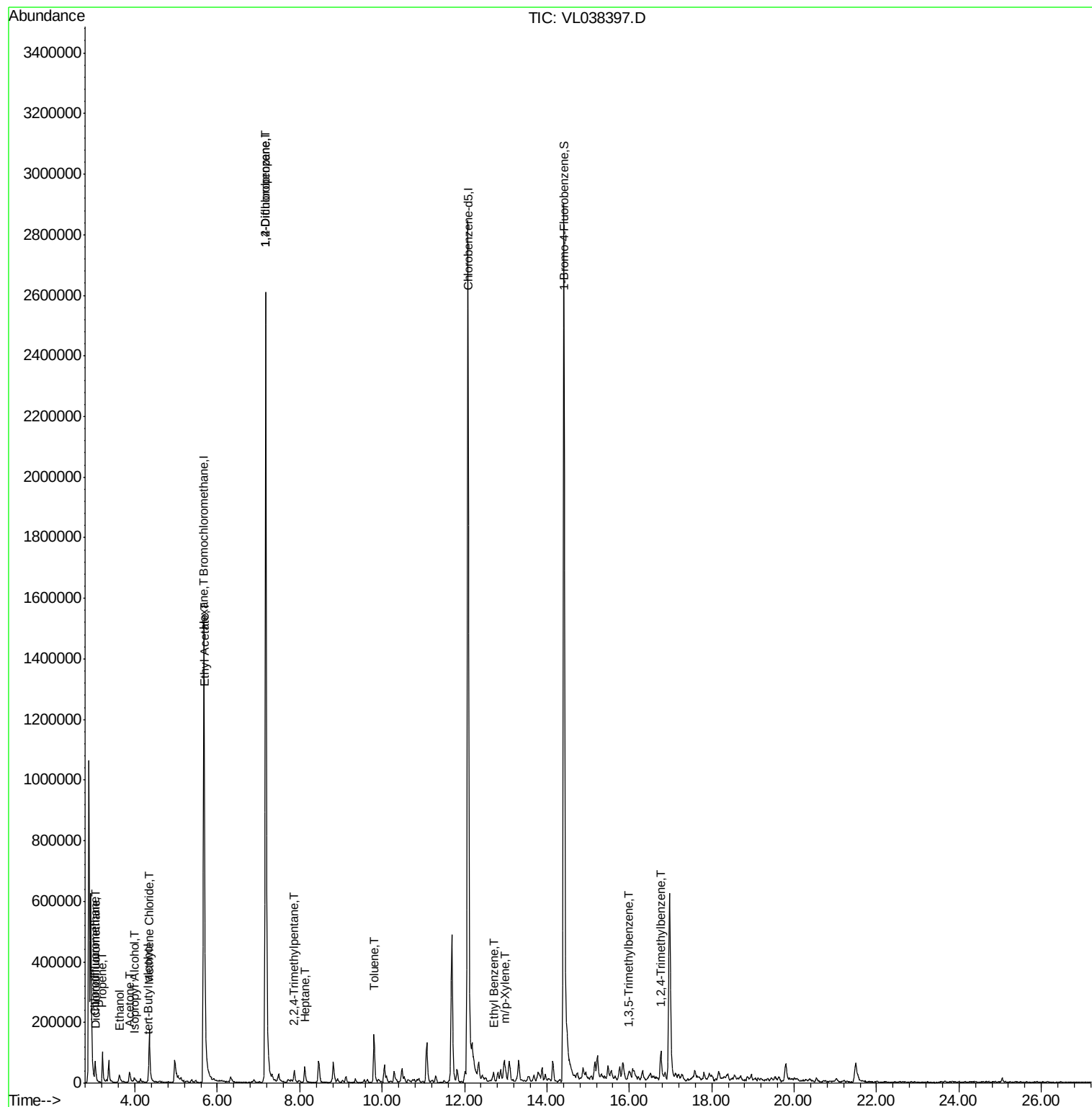
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	8195	0.06	ppbv	97
3) Chlorodifluoromethane	3.03	51	11002	0.07	ppbv #	77
9) Propene	3.21	41	34663	0.66	ppbv	94
10) Heptane	8.12	43	21447	0.17	ppbv	94
13) Ethanol	3.62	45	30526	5.80	ppbv	98
15) Acetone	3.86	43	30939	0.40	ppbv #	79
17) tert-Butyl alcohol	4.31	59	2978	0.04	ppbv #	85
19) Isopropyl Alcohol	3.99	45	14530	0.33	ppbv #	89
20) Methylene Chloride	4.35	84	67401	1.77	ppbv	91
25) Ethyl Acetate	5.69	43	46080	0.22	ppbv #	78
26) Hexane	5.69	57	62974	0.67	ppbv #	42
39) 1,2-Dichloropropane	7.18	63	583485	7.66	ppbv #	25
44) 2,2,4-Trimethylpentane	7.87	57	26536	0.08	ppbv #	68
53) Toluene	9.81	91	125786	0.61	ppbv	100
58) Ethyl Benzene	12.71	91	9646	0.04	ppbv #	67
59) m/p-Xylene	13.00	91	8013	0.03	ppbv #	33
73) 1,3,5-Trimethylbenzene	16.00	105	9499	0.04	ppbv	89
74) 1,2,4-Trimethylbenzene	16.77	105	21829	0.09	ppbv #	68

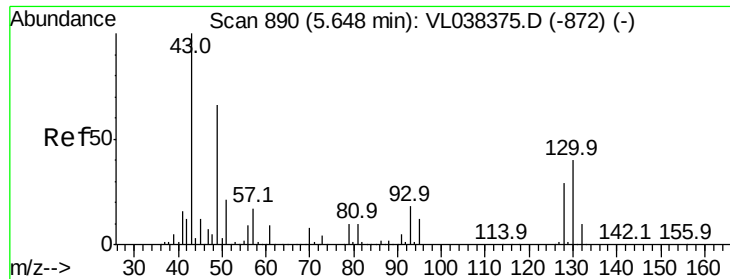
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: DUP-1DL

Acq: 22 Feb 2022 20:55

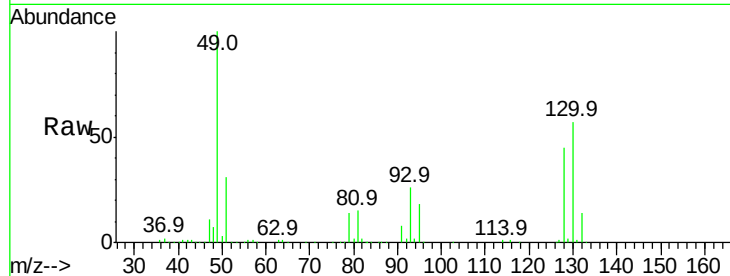
Tgt Ion: 49 Resp: 904994

Ion Ratio Lower Upper

49 100

128 46.6 24.3 72.9

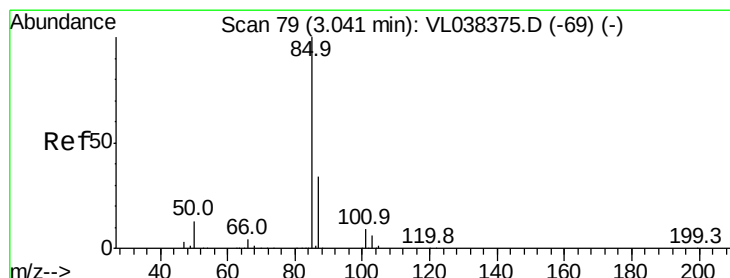
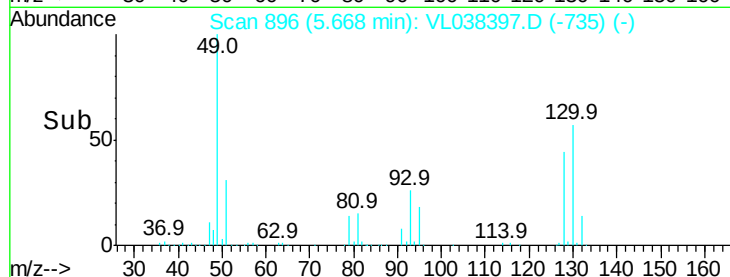
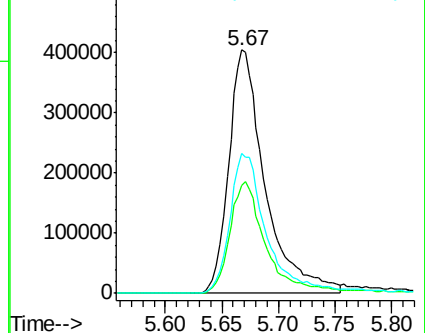
130 60.4 30.1 90.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.06 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL038397.D

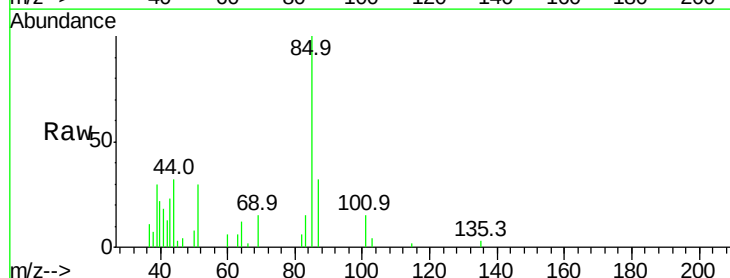
Acq: 22 Feb 2022 20:53

Tgt Ion: 85 Resp: 8195

Ion Ratio Lower Upper

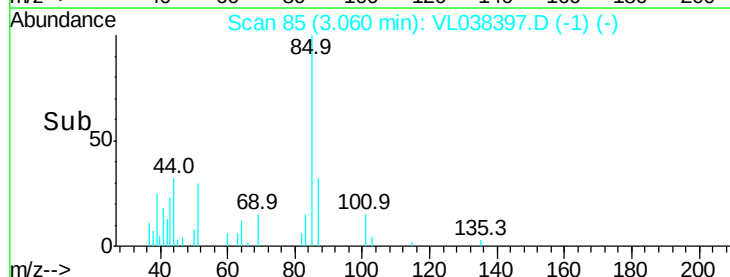
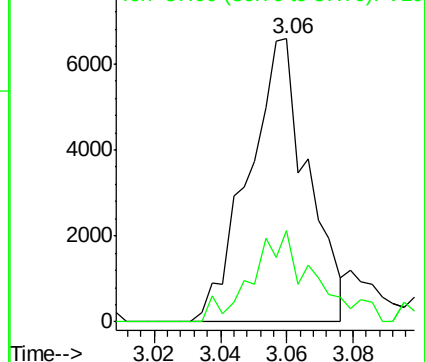
85 100

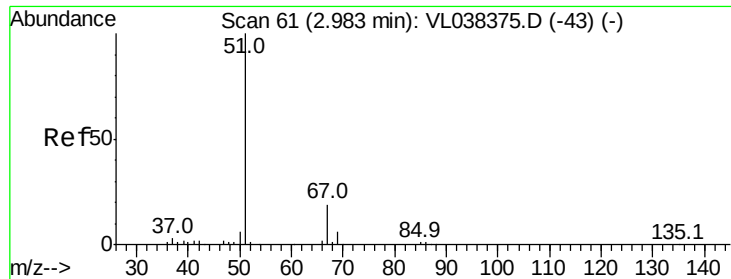
87 32.3 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

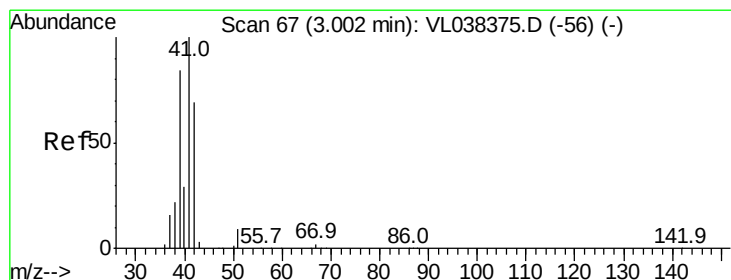
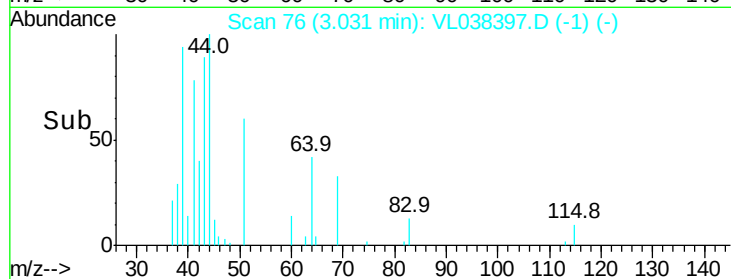
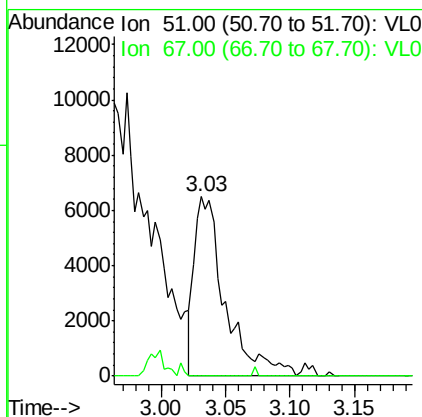
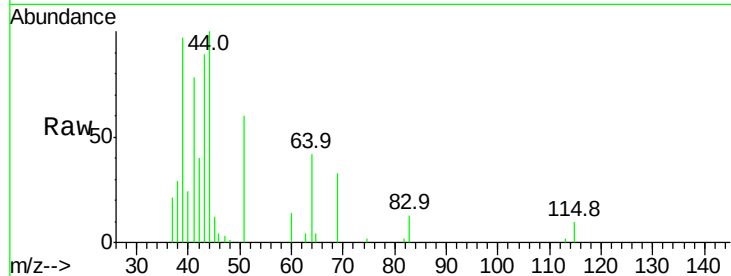
Ion 87.00 (86.70 to 87.70): VL0





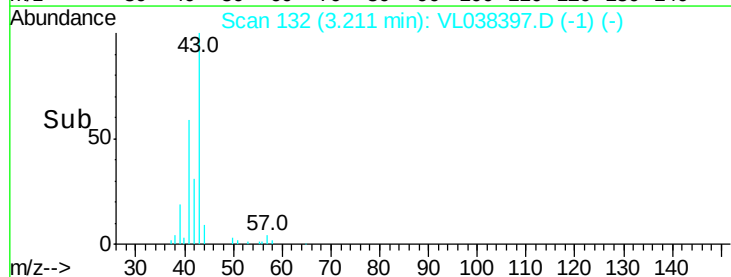
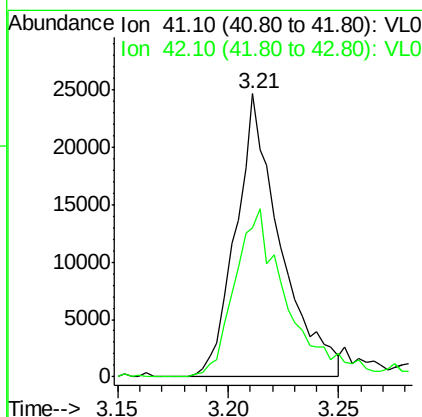
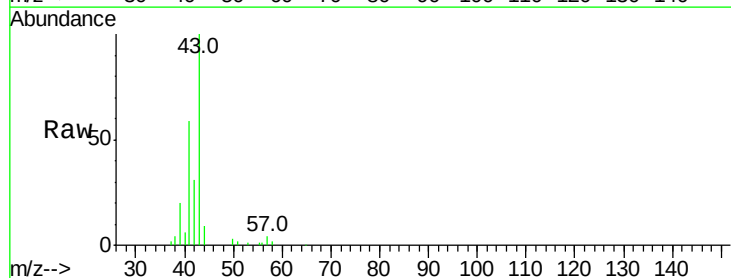
#3
 Chlorodifluoromethane
 Concen: 0.07 ppbv
 RT: 3.03
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 DUP-1DL
 Acq: 22 Feb 2022 20:55

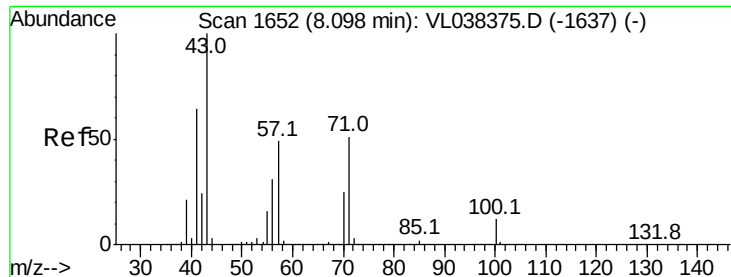
Tgt Ion: 51 Resp: 11002
 Ion Ratio Lower Upper
 51 100
 67 8.1 14.7 22.1#



#9
 Propene
 Concen: 0.66 ppbv
 RT: 3.21 min Scan# 132
 Delta R.T. 0.21 min
 Lab File: VL038397.D
 Acq: 22 Feb 2022 20:53

Tgt Ion: 41 Resp: 34663
 Ion Ratio Lower Upper
 41 100
 42 73.2 54.6 82.0





#10

Heptane

Concen: 0.17 ppbv

RT: 8.12 Instrument: MSVOA_1

Delta R.T. 0.02 min

Lab File: ClientSampleId: DUP-1DL

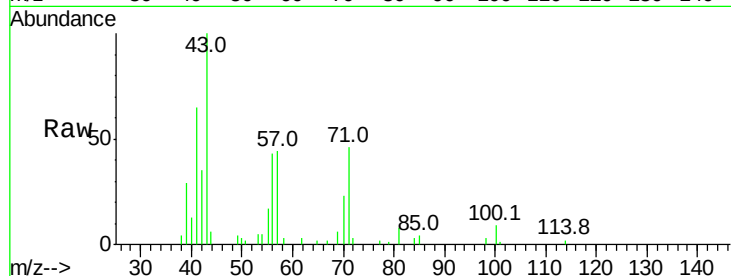
Acq: 22 Feb 2022 20:55

Tgt Ion: 43 Resp: 21447

Ion Ratio Lower Upper

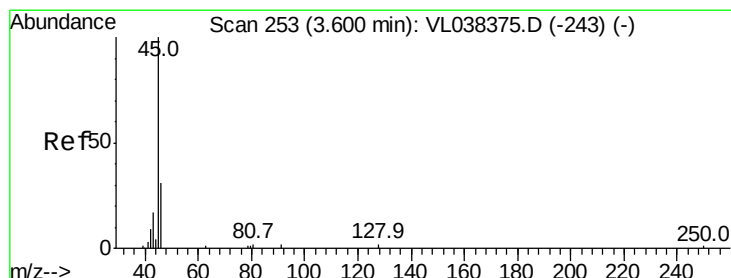
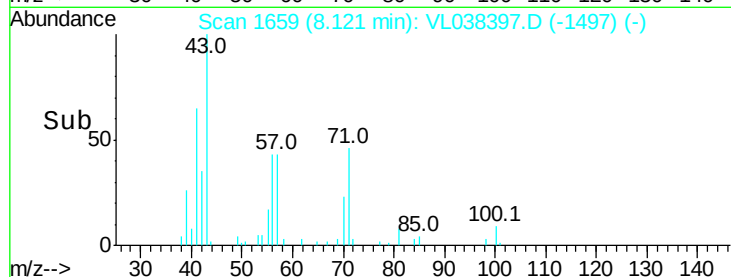
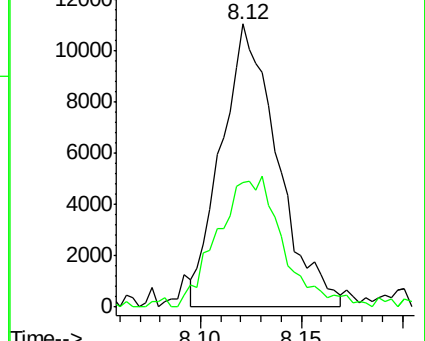
43 100

57 54.1 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 5.80 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.02 min

Lab File: VL038397.D

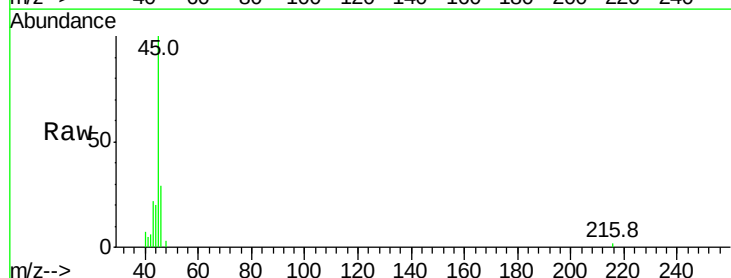
Acq: 22 Feb 2022 20:53

Tgt Ion: 45 Resp: 30526

Ion Ratio Lower Upper

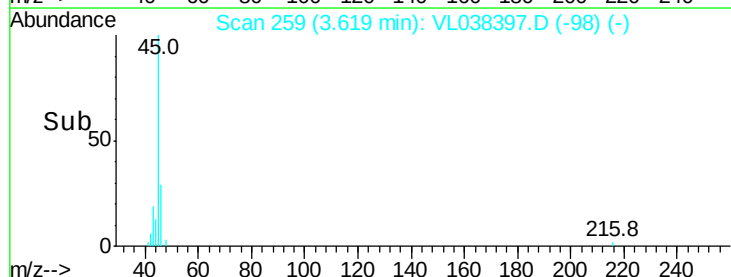
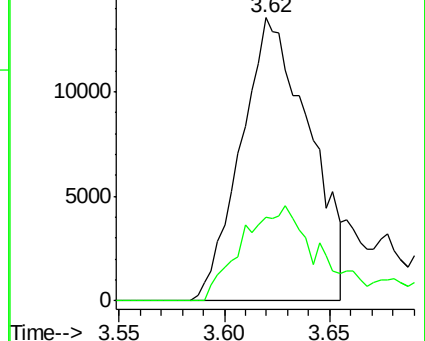
45 100

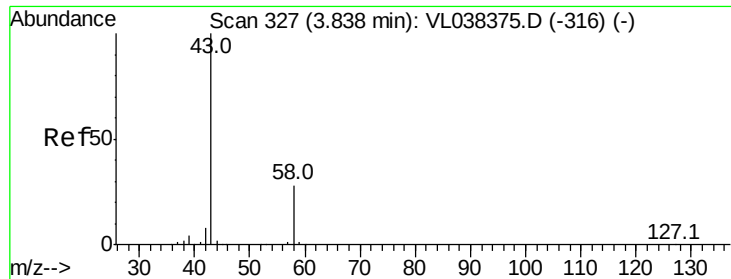
46 46.6 18.2 72.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.40 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

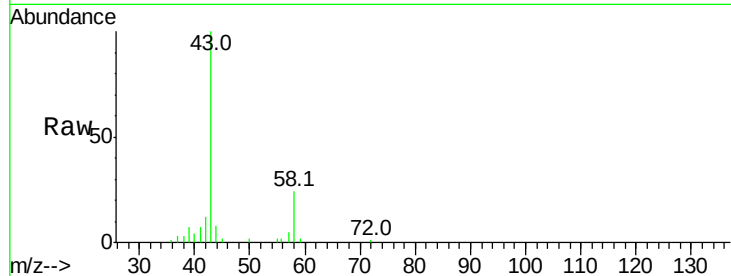
Acq: 22 Feb 2022 20:55

Tgt Ion: 43 Resp: 30939

Ion Ratio Lower Upper

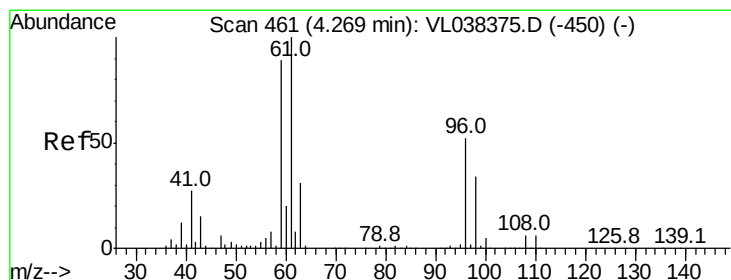
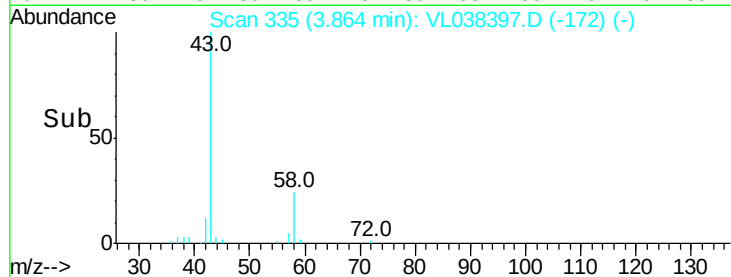
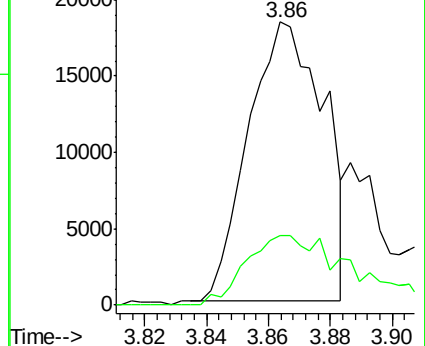
43 100

58 38.2 21.7 32.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.04 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.04 min

Lab File: VL038397.D

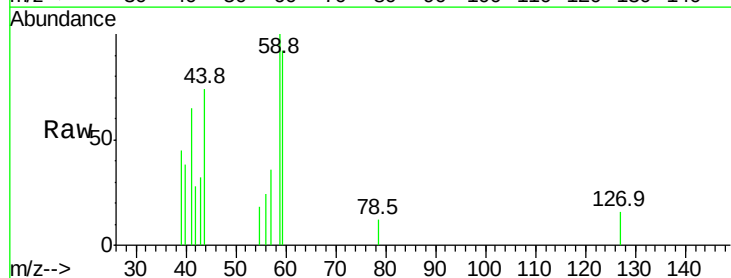
Acq: 22 Feb 2022 20:53

Tgt Ion: 59 Resp: 2978

Ion Ratio Lower Upper

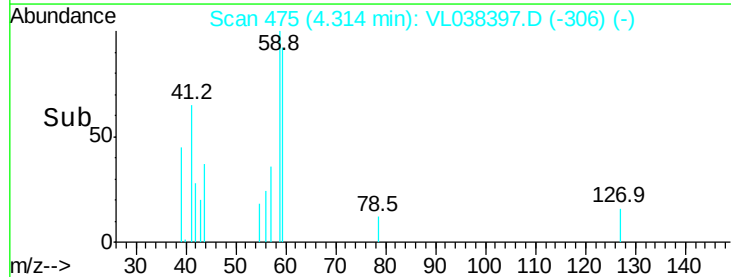
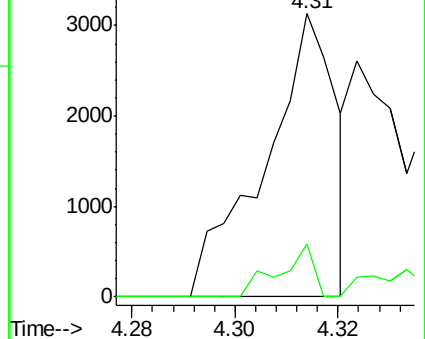
59 100

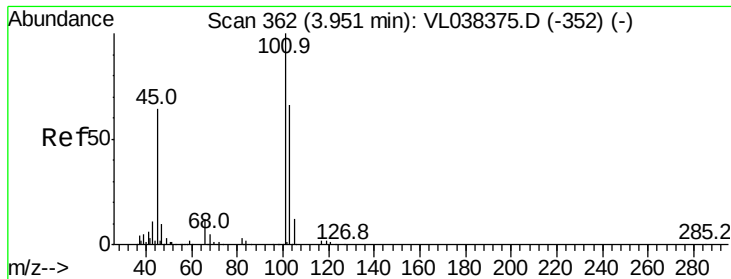
57 16.1 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 0.33 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

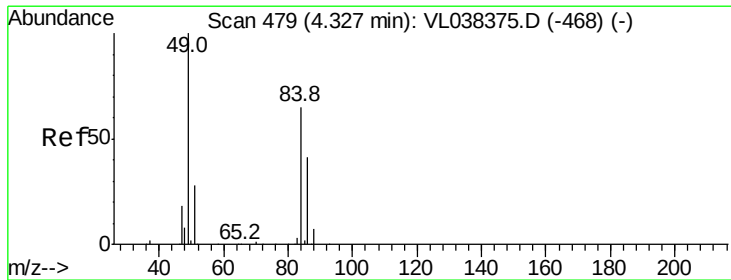
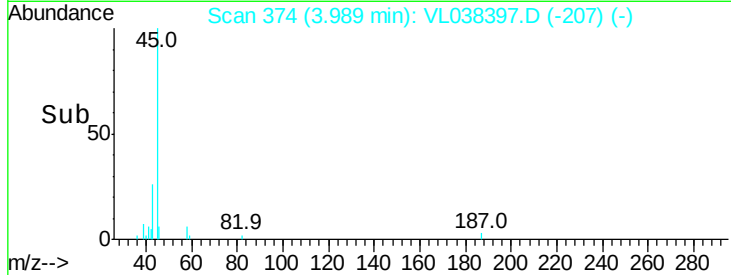
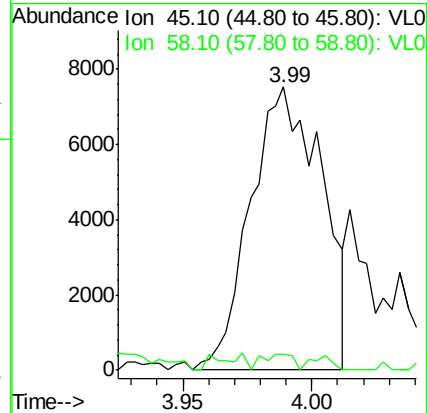
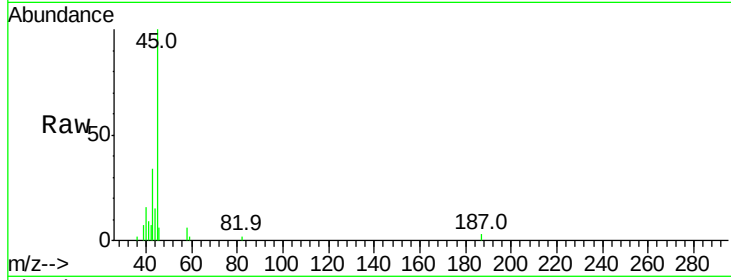
Acq: 22 Feb 2022 20:55

Tgt Ion: 45 Resp: 14530

Ion Ratio Lower Upper

45 100

58 6.0 1.8 2.8#



#20

Methylene Chloride

Concen: 1.77 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.02 min

Lab File: VL038397.D

Acq: 22 Feb 2022 20:53

Tgt Ion: 84 Resp: 67401

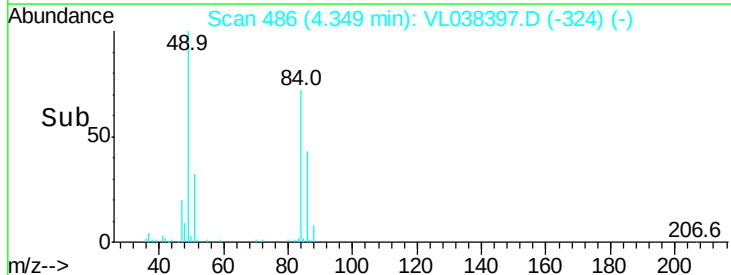
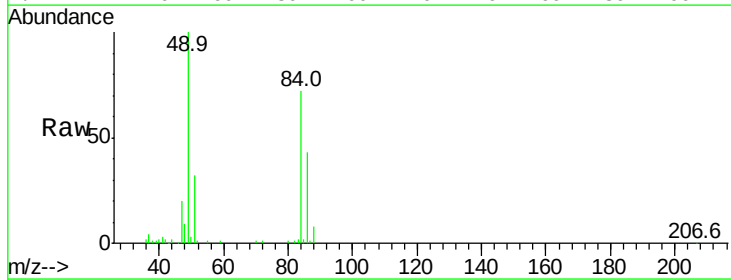
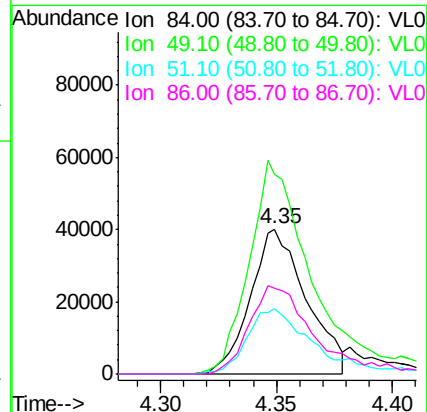
Ion Ratio Lower Upper

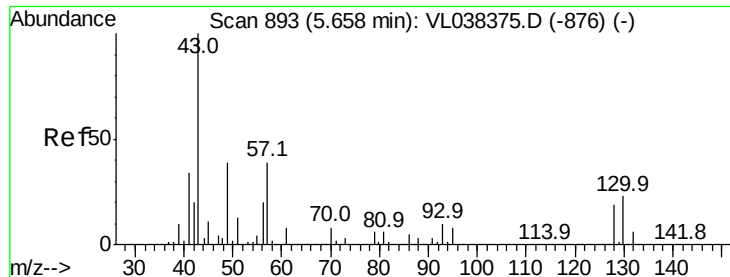
84 100

49 138.4 122.4 183.6

51 44.7 33.3 49.9

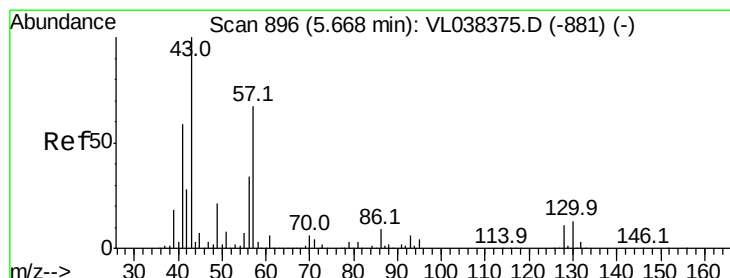
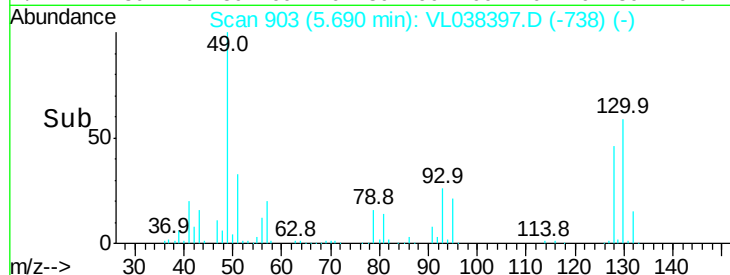
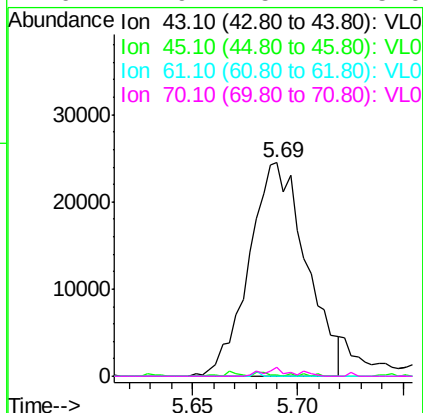
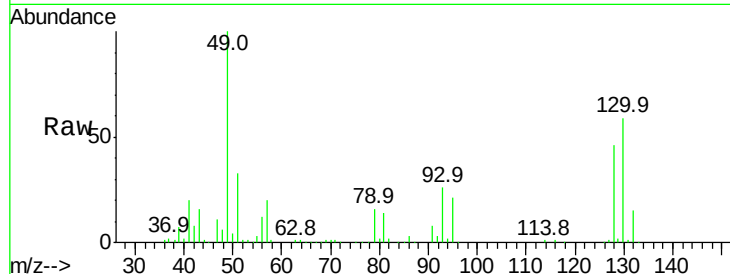
86 59.3 50.7 76.1





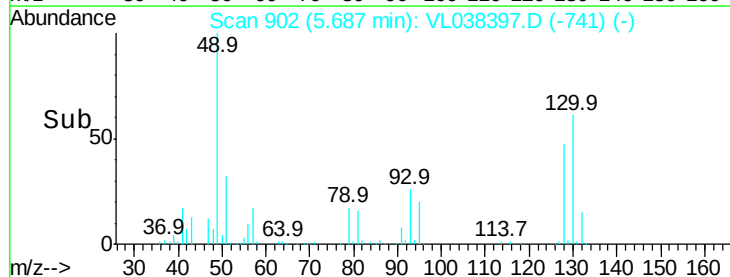
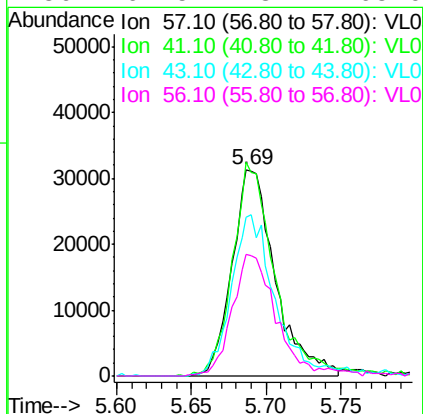
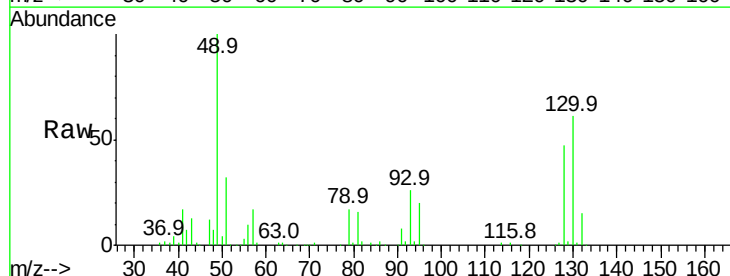
#25
Ethyl Acetate
Concen: 0.22 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 22 Feb 2022 20:55

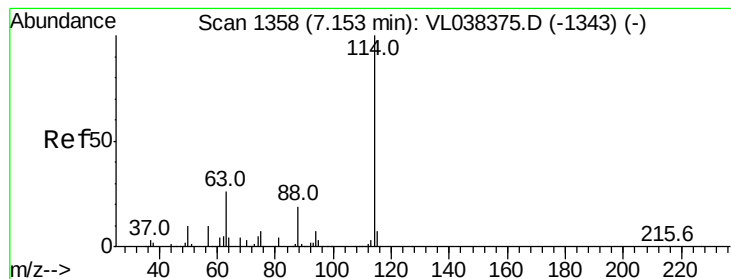
Tgt Ion:	43	Resp:	46080
Ion	Ratio	Lower	Upper
43	100		
45	0.4	7.8	11.6#
61	0.0	7.5	11.3#
70	1.9	5.4	8.0#



#26
Hexane
Concen: 0.67 ppbv
RT: 5.69 min Scan# 902
Delta R.T.: 0.02 min
Lab File: VL038397.D
Acq: 22 Feb 2022 20:53

Tgt Ion:	57	Resp:	62974
Ion	Ratio	Lower	Upper
57	100		
41	103.1	73.1	109.7
43	81.2	181.0	271.4#
56	61.5	43.4	65.0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Feb 2022 20:55 DUP-1DL

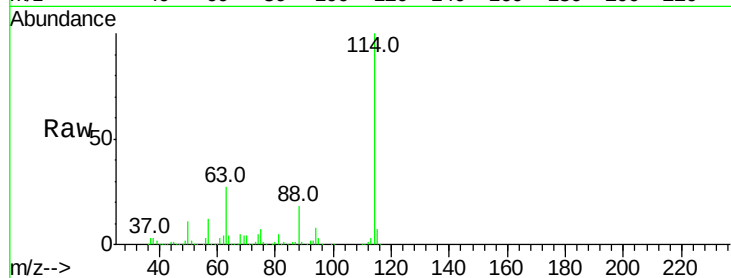
Tgt Ion: 114 Resp: 2173031

Ion Ratio Lower Upper

114 100

63 27.3 22.2 33.2

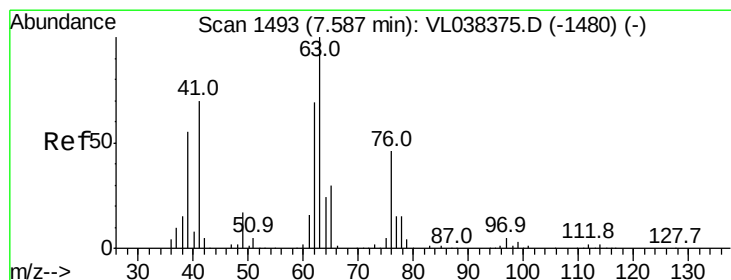
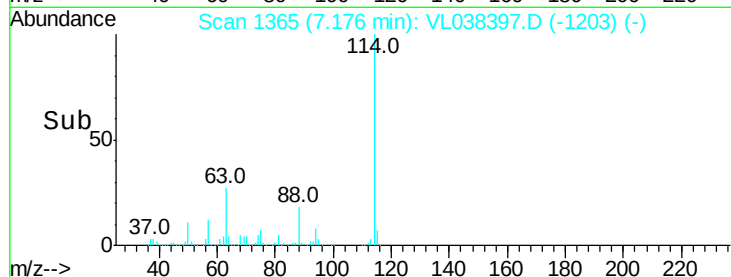
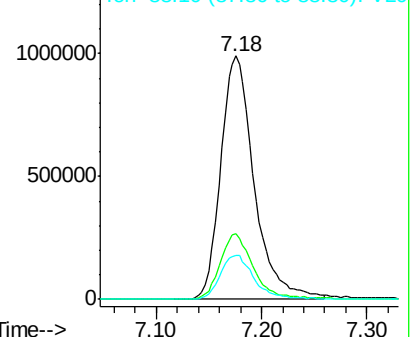
88 18.8 15.2 22.8



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#39

1,2-Dichloropropane

Concen: 7.66 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.41 min

Lab File: VL038397.D

Acq: 22 Feb 2022 20:53

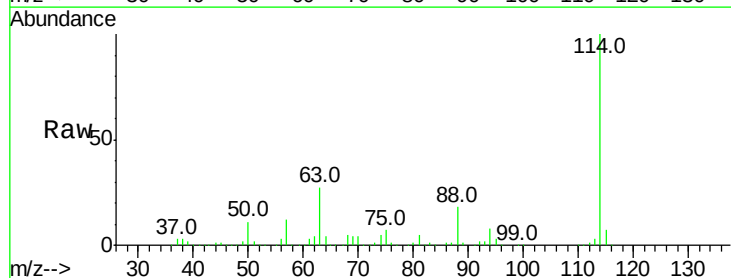
Tgt Ion: 63 Resp: 583485

Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

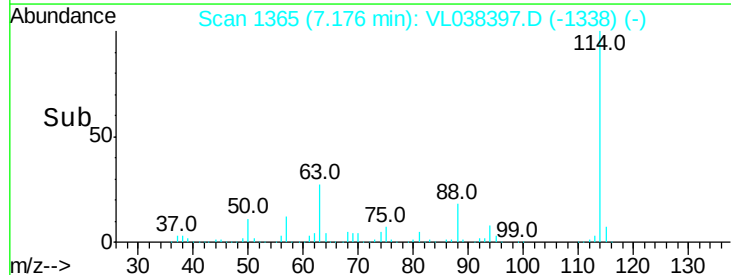
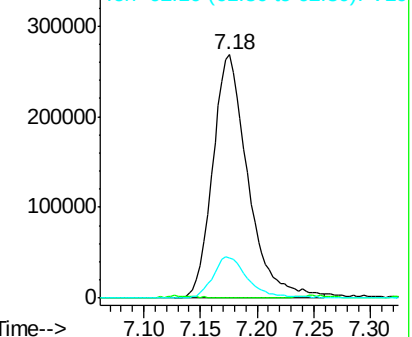
62 16.3 55.5 83.3#

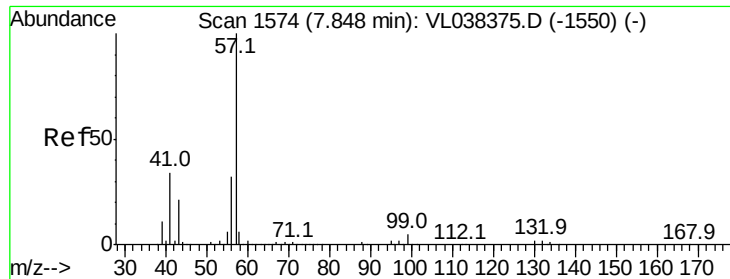


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.08 ppbv

RT: 7.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Feb 2022 20:53 DUP-1DL

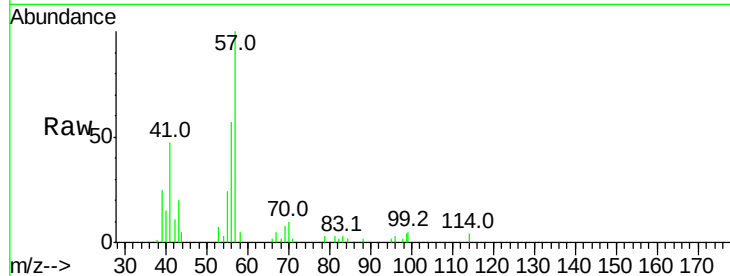
Tgt Ion: 57 Resp: 26536

Ion Ratio Lower Upper

57 100

41 49.7 26.6 39.8#

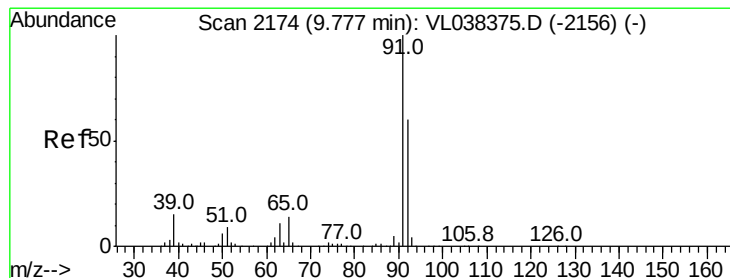
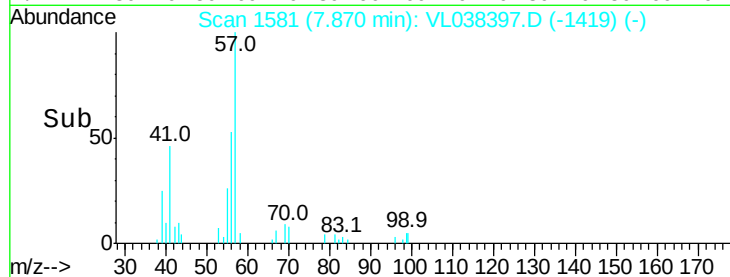
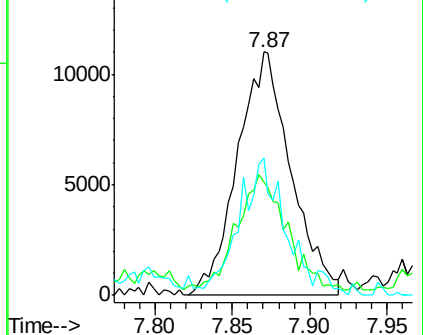
56 51.1 25.0 37.6#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#53

Toluene

Concen: 0.61 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.03 min

Lab File: VL038397.D

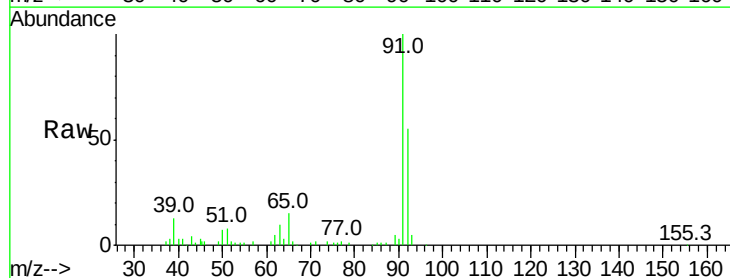
Acq: 22 Feb 2022 20:53

Tgt Ion: 91 Resp: 125786

Ion Ratio Lower Upper

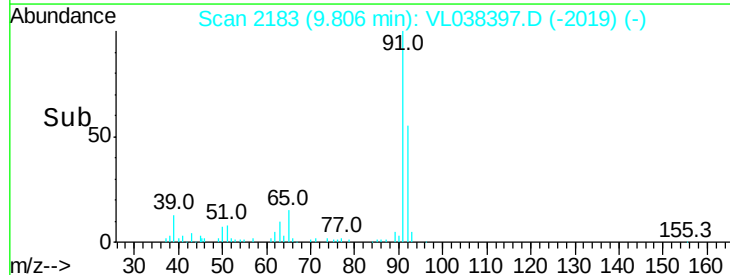
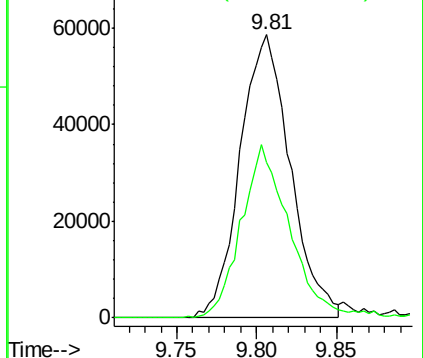
91 100

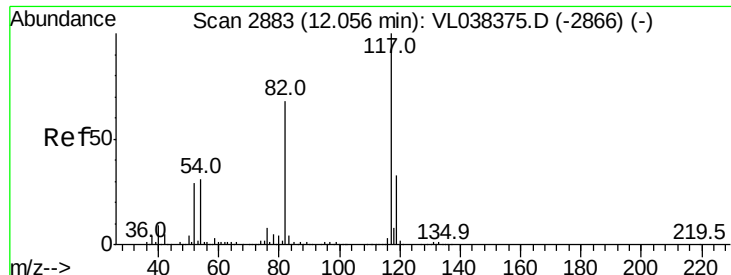
92 60.5 48.2 72.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

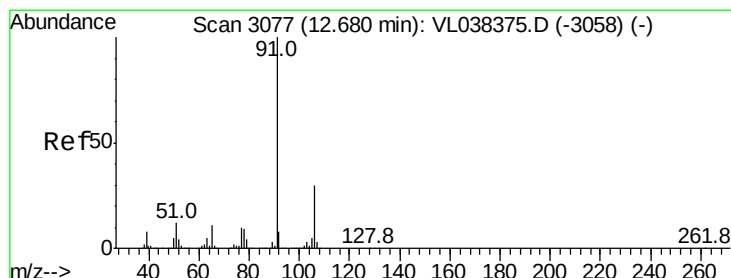
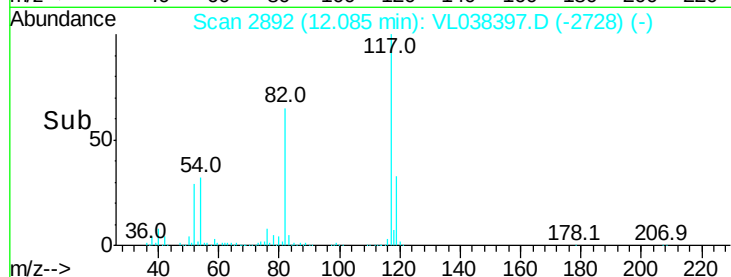
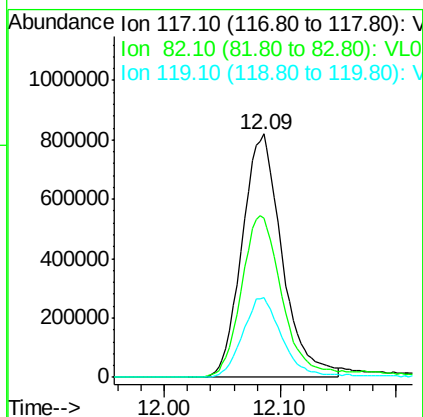
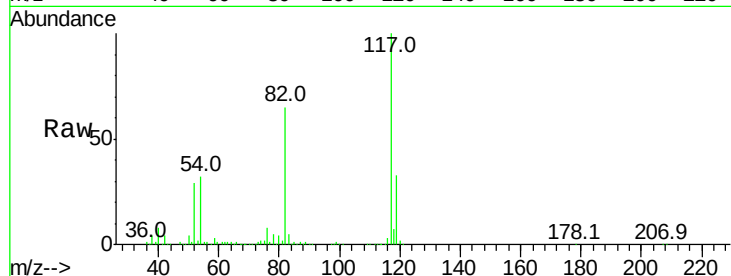
Ion 92.10 (91.80 to 92.80): VL0





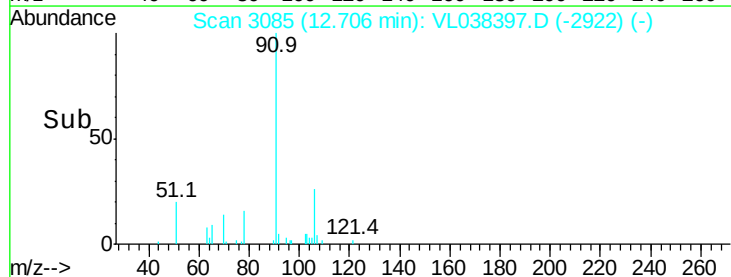
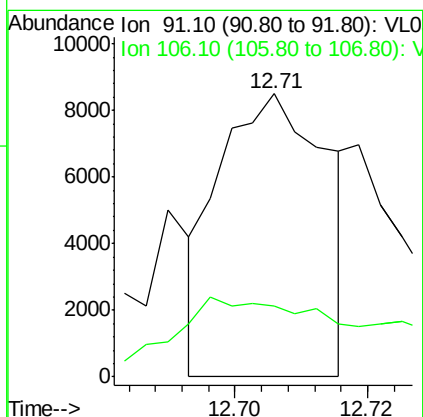
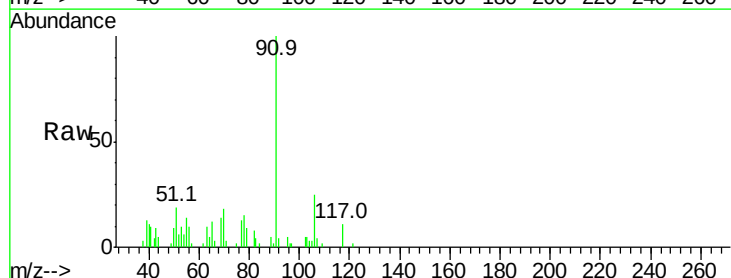
#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.09
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 DUP-1DL
 Acq: 22 Feb 2022 20:55

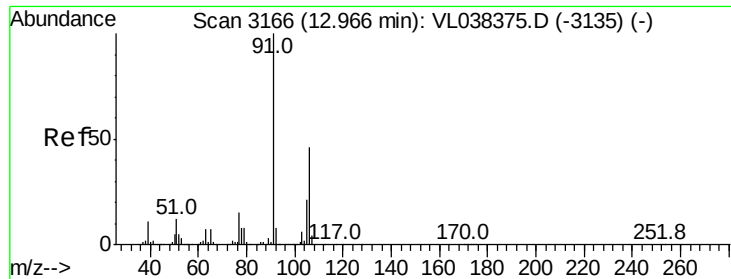
Tgt Ion: 117 Resp: 1967434
 Ion Ratio Lower Upper
 117 100
 82 71.0 54.9 82.3
 119 33.6 46.1 69.1#



#58
 Ethyl Benzene
 Concen: 0.04 ppbv
 RT: 12.71 min Scan# 3085
 Delta R.T. 0.03 min
 Lab File: VL038397.D
 Acq: 22 Feb 2022 20:53

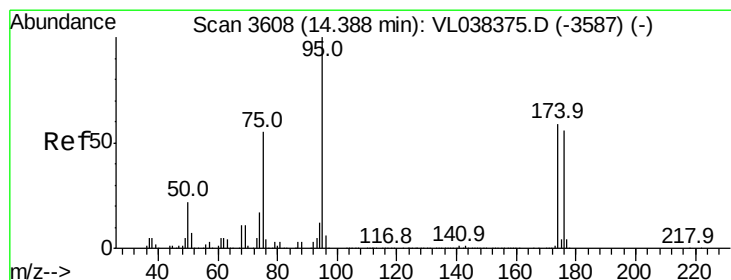
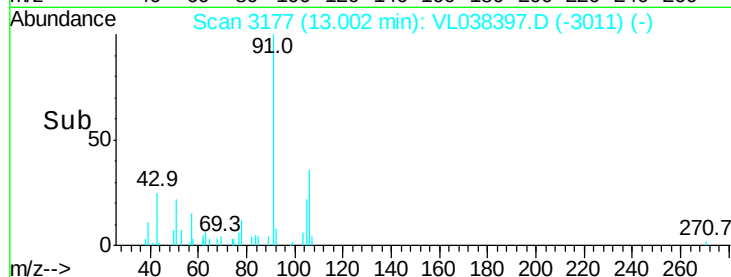
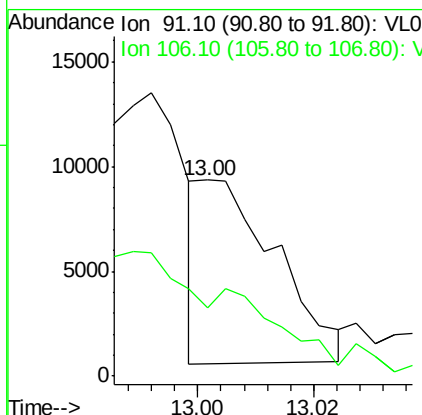
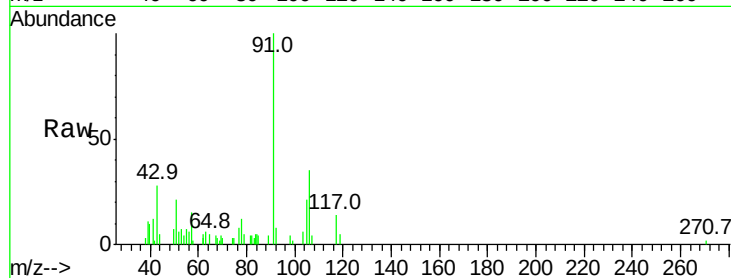
Tgt Ion: 91 Resp: 9646
 Ion Ratio Lower Upper
 91 100
 106 12.2 24.0 36.0#





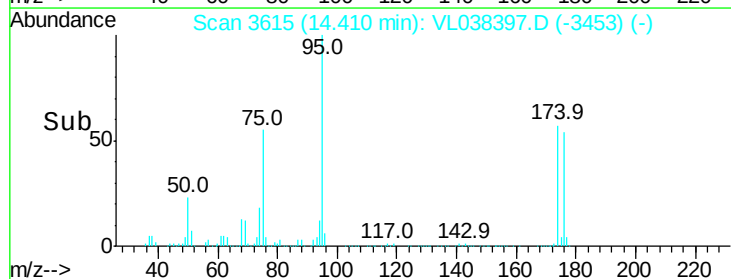
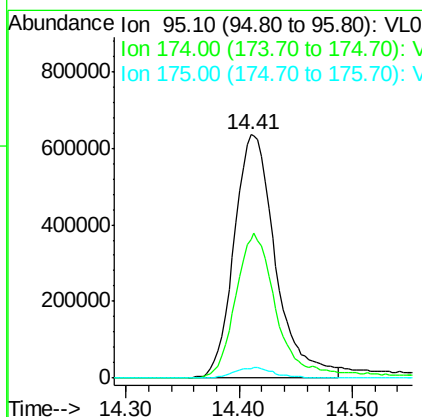
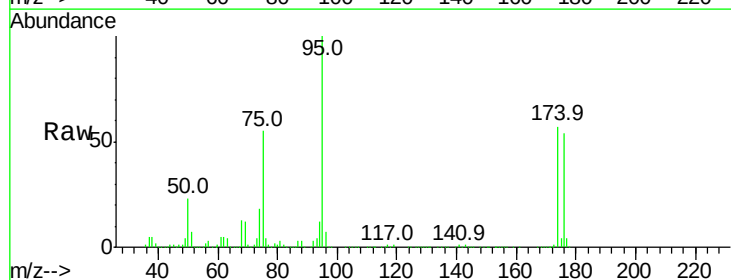
#59
m/p-Xylene
Concen: 0.03 ppbv
RT: 13.00
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Feb 2022 20:55

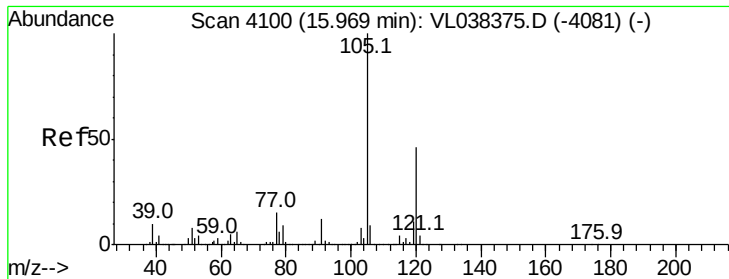
Tgt Ion: 91 Resp: 8013
Ion Ratio Lower Upper
91 100
106 0.0 34.4 51.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.96 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. 0.02 min
Lab File: VL038397.D
Acq: 22 Feb 2022 20:53

Tgt Ion: 95 Resp: 1621562
Ion Ratio Lower Upper
95 100
174 61.9 49.0 73.4
175 4.4 3.6 5.4





#73

1,3,5-Trimethylbenzene

Concen: 0.04 ppbv

RT: 16.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

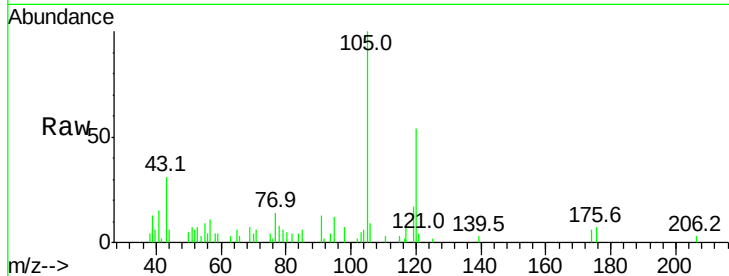
Acq: 22 Feb 2022 20:55

Tgt Ion:105 Resp: 9499

Ion Ratio Lower Upper

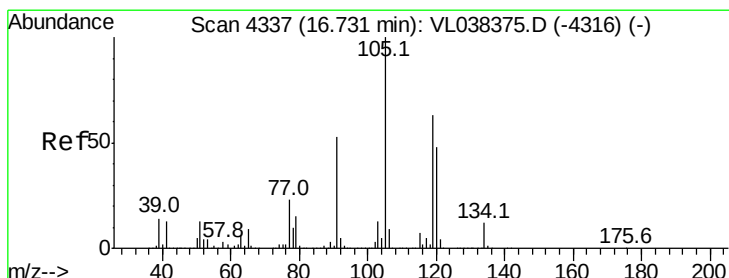
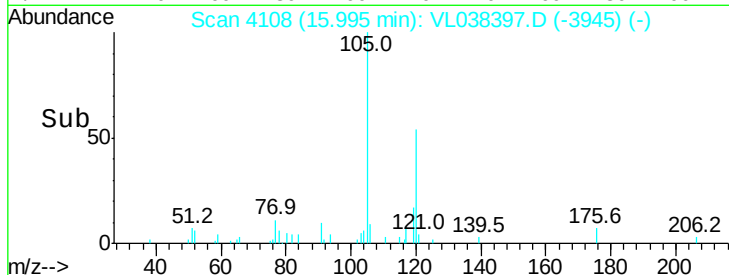
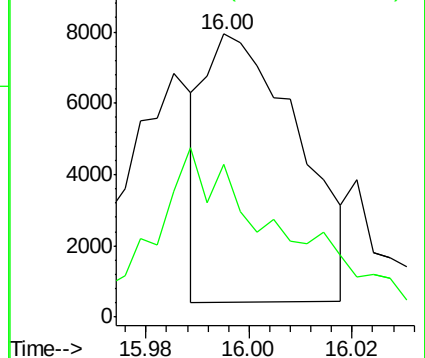
105 100

120 53.2 36.6 55.0



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: 0.09 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. 0.04 min

Lab File: VL038397.D

Acq: 22 Feb 2022 20:53

Tgt Ion:105 Resp: 21829

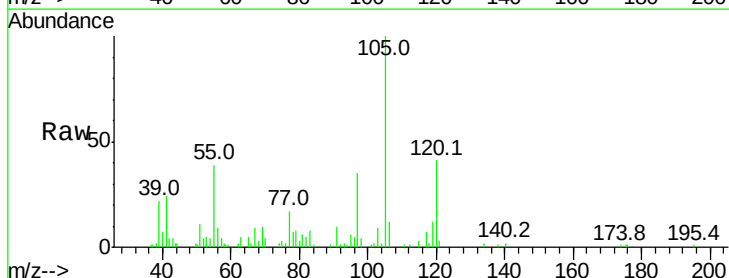
Ion Ratio Lower Upper

105 100

120 40.8 38.2 57.4

91 10.8 42.7 64.1#

77 15.9 18.5 27.7#



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

