

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030122\
 Data File : VL038455.D
 Acq On : 1 Mar 2022 17:50
 Operator : SY/AP
 Sample : N1720-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Mar 02 03:06:02 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	888637	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2278843	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	1926352	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1400506	8.79	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.90%

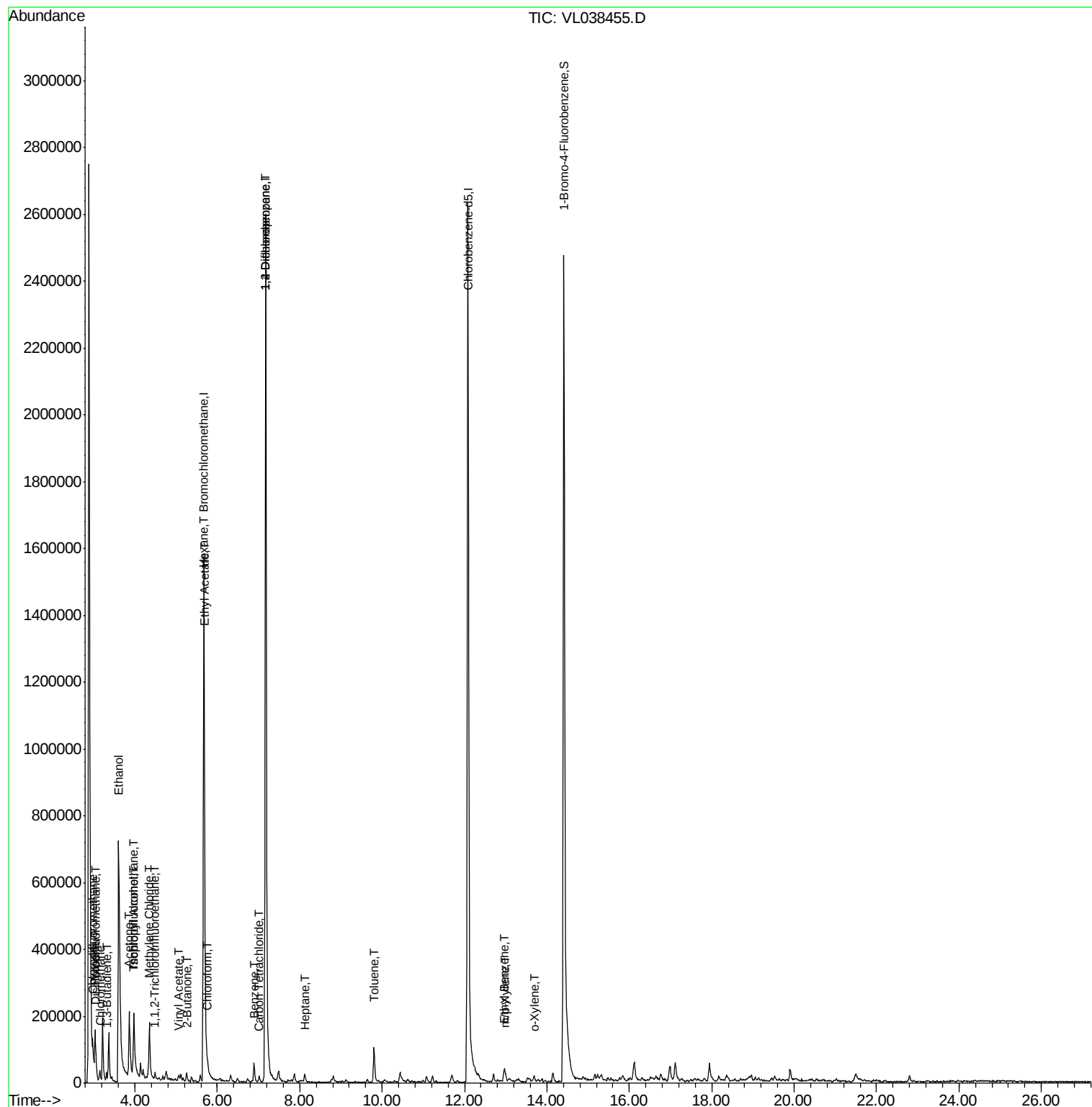
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.05	85	36516	0.26	ppbv	95
3) Chlorodifluoromethane	2.97	51	127936	0.82	ppbv #	73
4) Chloromethane	3.15	50	30777	0.56	ppbv	93
9) Propene	3.03	41	39829	0.77	ppbv #	81
10) Heptane	8.13	43	6280	0.05	ppbv #	28
11) Trichlorofluoromethane	3.96	101	27578	0.20	ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.49	101	4446	0.05	ppbv #	56
13) Ethanol	3.61	45	1181872	228.58	ppbv	88
15) Acetone	3.86	43	258861	3.43	ppbv	99
16) 1,3-Butadiene	3.31	39	9255	0.18	ppbv #	42
19) Isopropyl Alcohol	3.97	45	230180	5.26	ppbv #	97
20) Methylene Chloride	4.36	84	68045	1.82	ppbv	86
23) Vinyl Acetate	5.07	43	9601	0.10	ppbv #	63
25) Ethyl Acetate	5.69	43	72146	0.36	ppbv #	91
26) Hexane	5.69	57	37412	0.41	ppbv #	61
29) Chloroform	5.76	83	10287	0.07	ppbv	84
34) 2-Butanone	5.25	43	32496	0.45	ppbv #	85
35) Carbon Tetrachloride	7.02	117	7826	0.05	ppbv #	93
36) Benzene	6.89	78	45349	0.23	ppbv #	94
39) 1,2-Dichloropropane	7.18	63	565468	7.08	ppbv #	24
53) Toluene	9.81	91	31414	0.14	ppbv #	20
58) Ethyl Benzene	12.97	91	27314	0.10	ppbv	100
59) m/p-Xylene	13.00	91	7227	0.03	ppbv #	33
60) o-Xylene	13.69	91	14557	0.07	ppbv	94

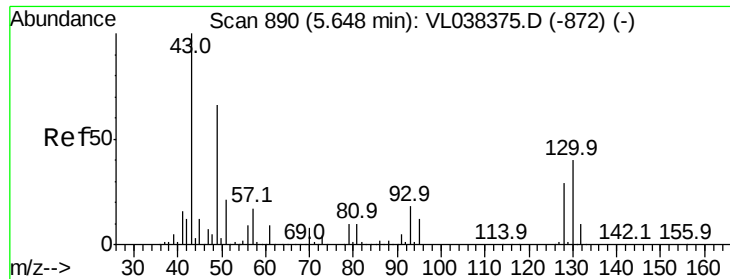
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 1 Mar 2022 17:50

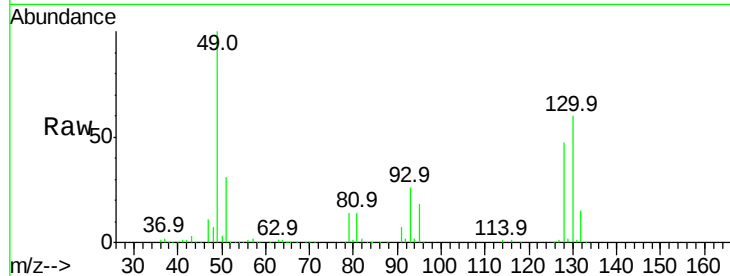
Tgt Ion: 49 Resp: 888637

Ion Ratio Lower Upper

49 100

128 50.3 24.3 72.9

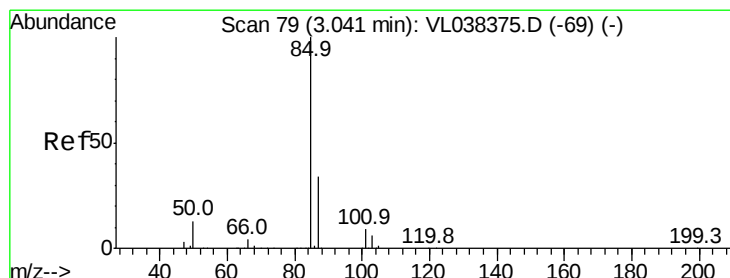
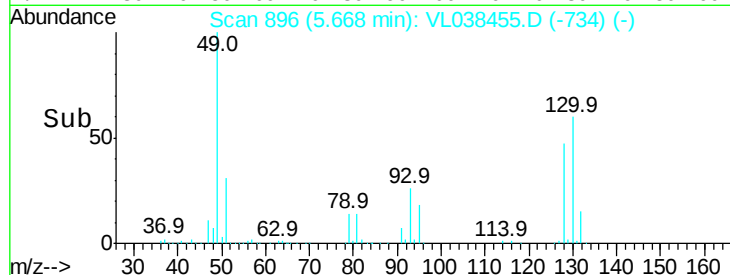
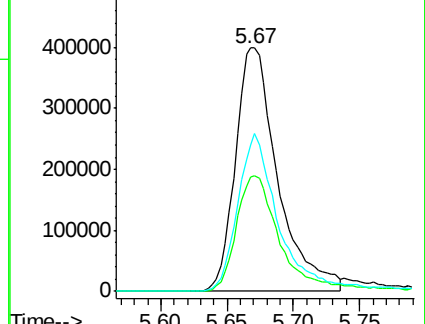
130 64.3 30.1 90.5



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: 0.26 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038455.D

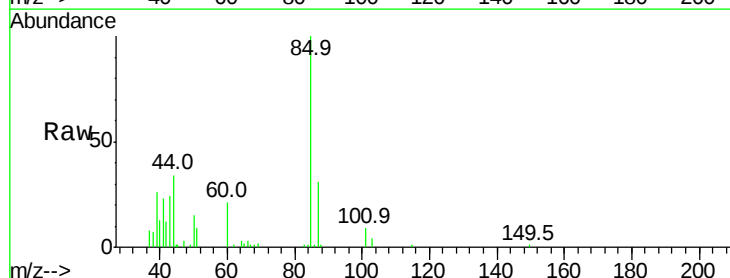
Acq: 1 Mar 2022 17:50

Tgt Ion: 85 Resp: 36516

Ion Ratio Lower Upper

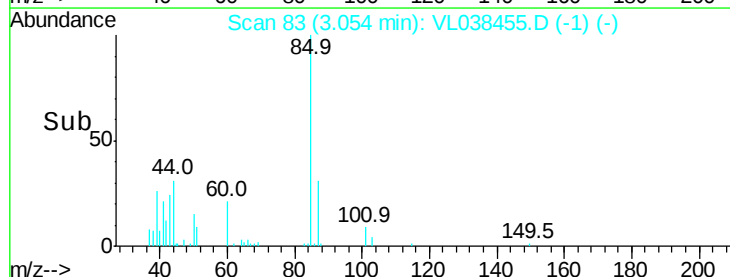
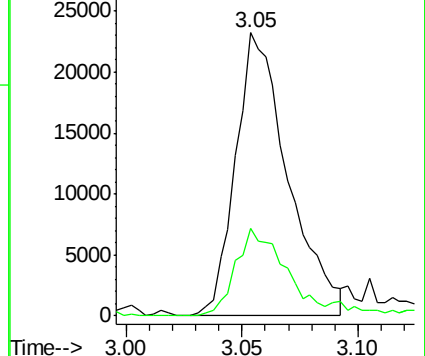
85 100

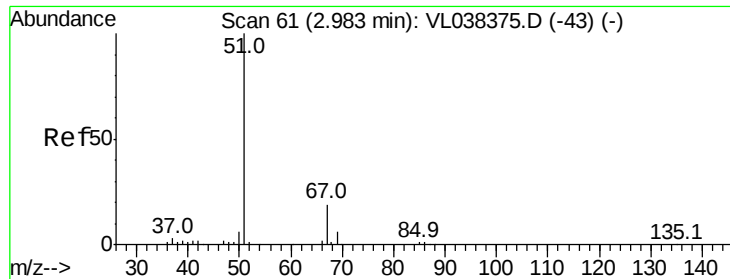
87 31.1 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

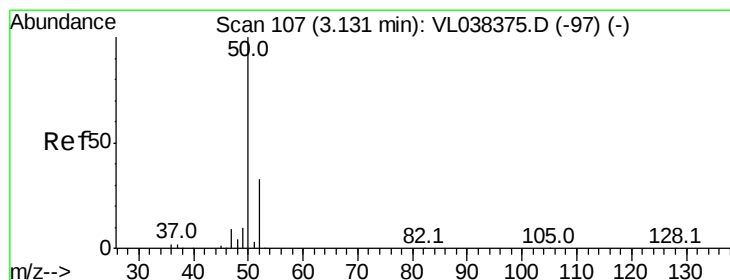
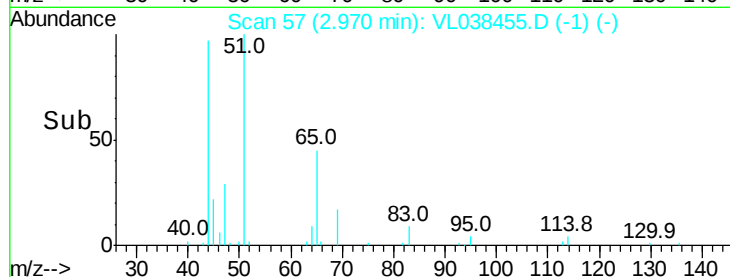
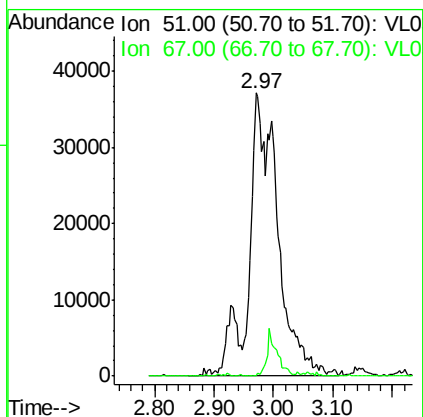
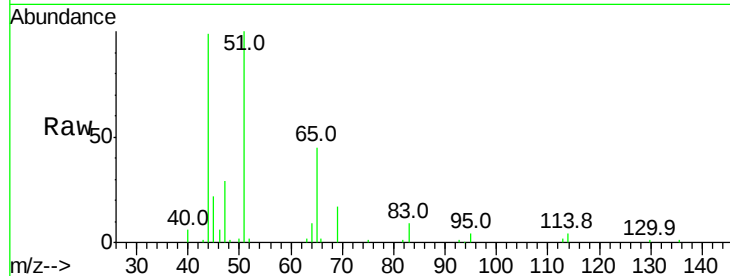
Ion 87.00 (86.70 to 87.70): VL0





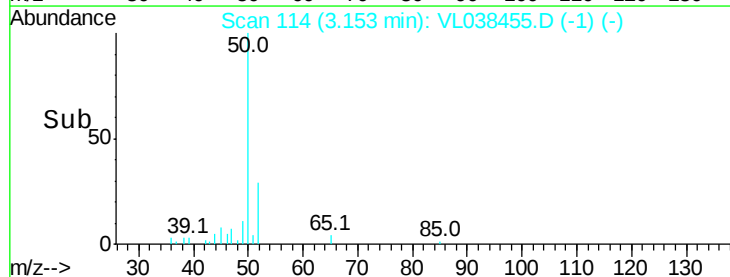
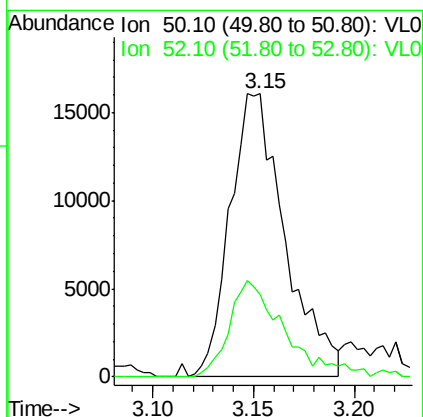
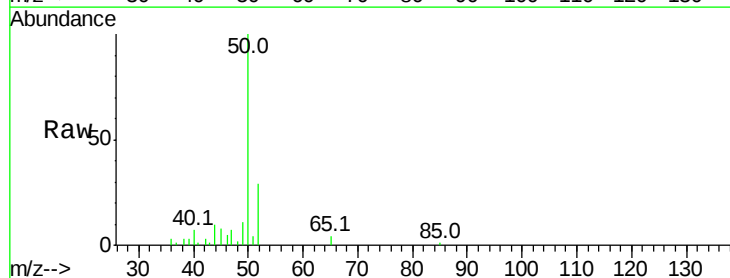
#3
 Chlorodifluoromethane
 Concen: 0.82 ppbv
 RT: 2.97
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 1 Mar 2022 17:50

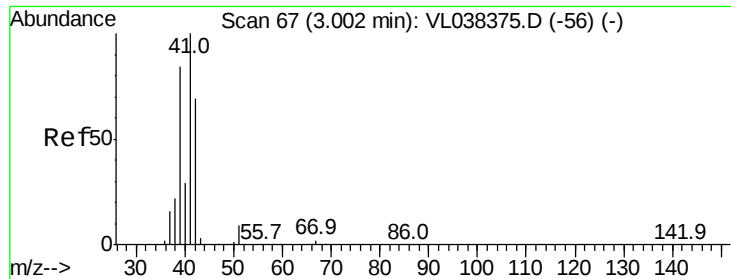
Tgt Ion: 51 Resp: 127936
 Ion Ratio Lower Upper
 51 100
 67 6.5 14.7 22.1#



#4
 Chloromethane
 Concen: 0.56 ppbv
 RT: 3.15 min Scan# 114
 Delta R.T. 0.02 min
 Lab File: VL038455.D
 Acq: 1 Mar 2022 17:50

Tgt Ion: 50 Resp: 30777
 Ion Ratio Lower Upper
 50 100
 52 29.3 26.5 39.7





#9

Propene

Concen: 0.77 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

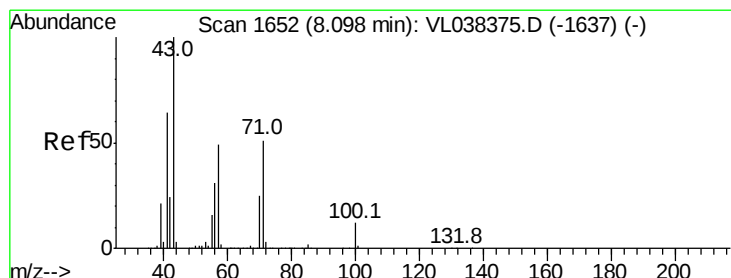
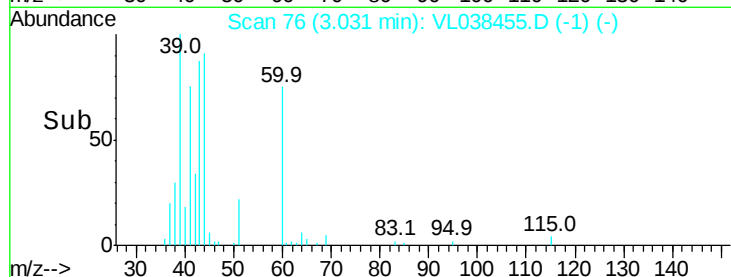
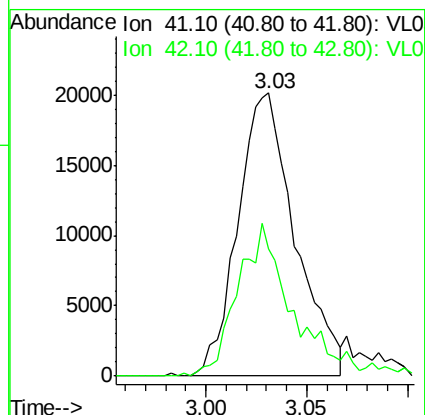
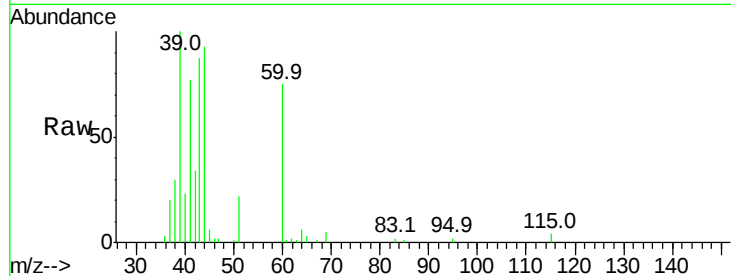
Acq: 1 Mar 2022 17:50

Tgt Ion: 41 Resp: 39829

Ion Ratio Lower Upper

41 100

42 53.2 54.6 82.0#



#10

Heptane

Concen: 0.05 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.03 min

Lab File: VL038455.D

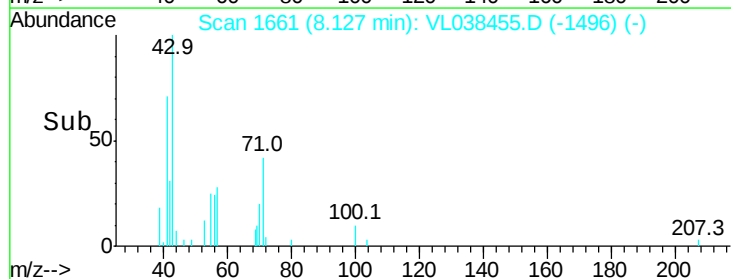
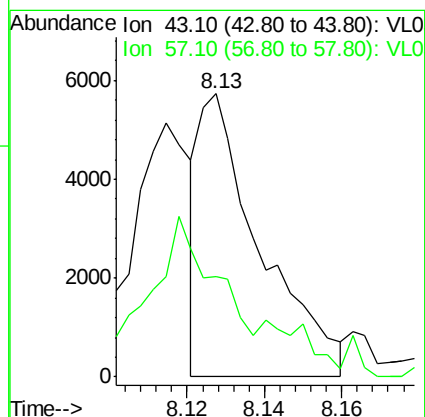
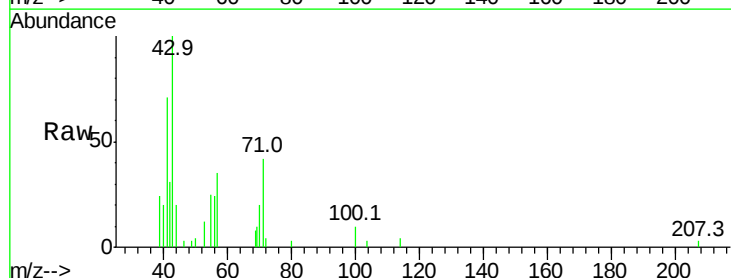
Acq: 1 Mar 2022 17:50

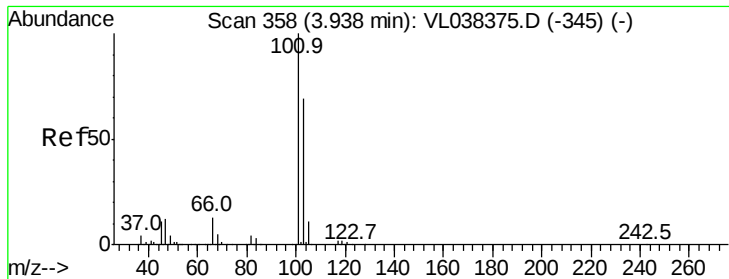
Tgt Ion: 43 Resp: 6280

Ion Ratio Lower Upper

43 100

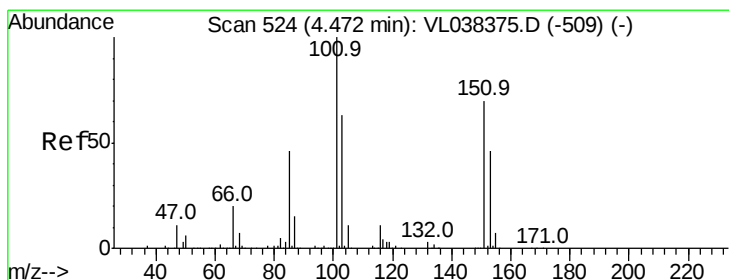
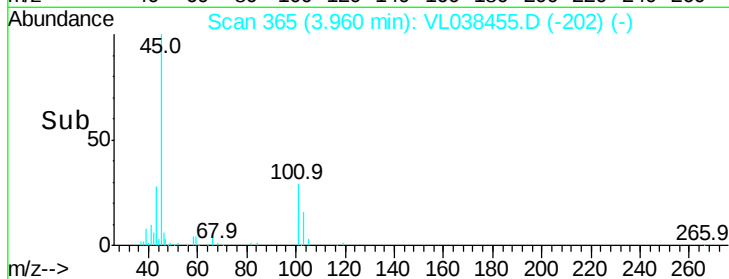
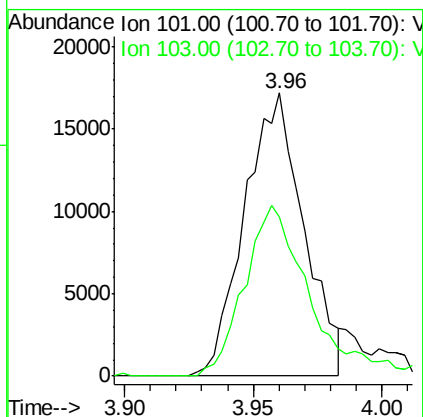
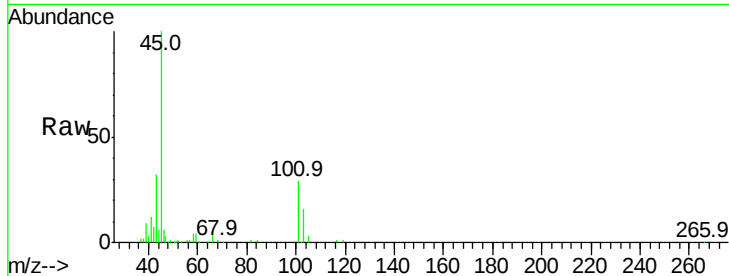
57 0.0 39.8 59.8#





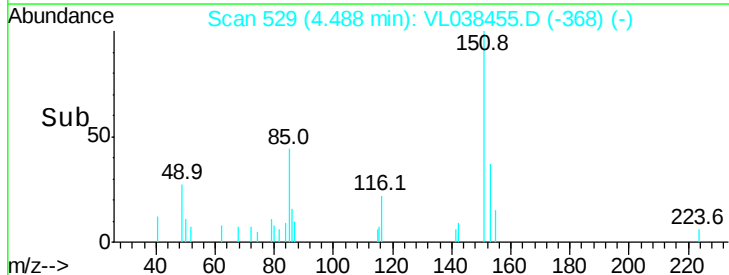
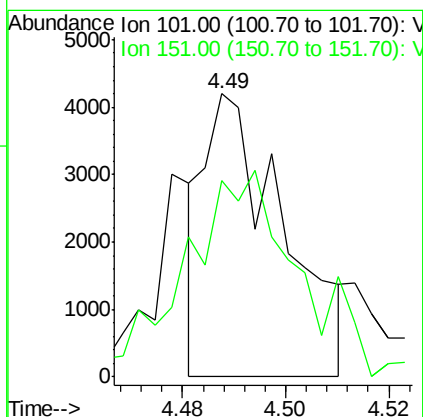
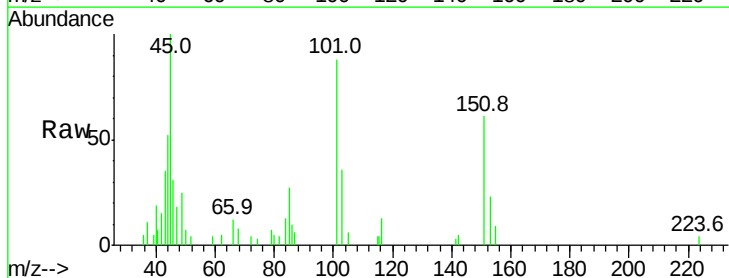
#11
 Trichlorofluoromethane
 Concen: 0.20 ppbv
 RT: 3.96
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 1 Mar 2022 17:50

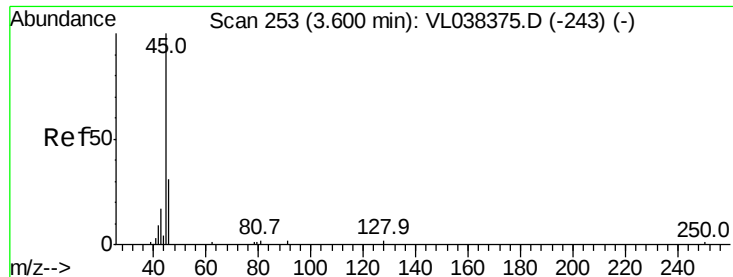
Tgt Ion:101 Resp: 27578
 Ion Ratio Lower Upper
 101 100
 103 56.1 55.0 82.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.05 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.02 min
 Lab File: VL038455.D
 Acq: 1 Mar 2022 17:50

Tgt Ion:101 Resp: 4446
 Ion Ratio Lower Upper
 101 100
 151 106.3 55.9 83.9#





#13

Ethanol

Concen: 228.58 ppbv

RT: 3.61

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

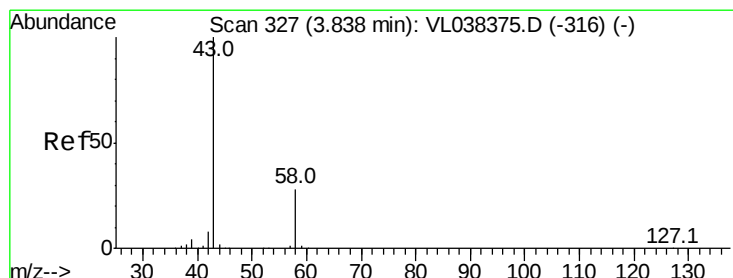
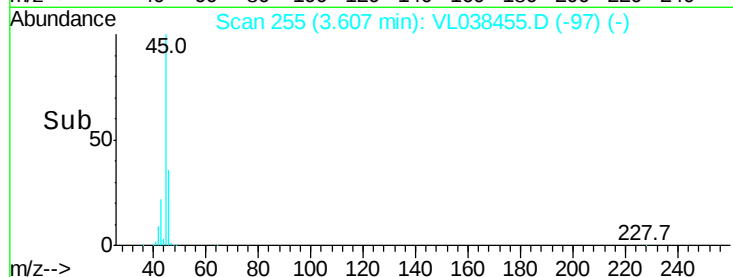
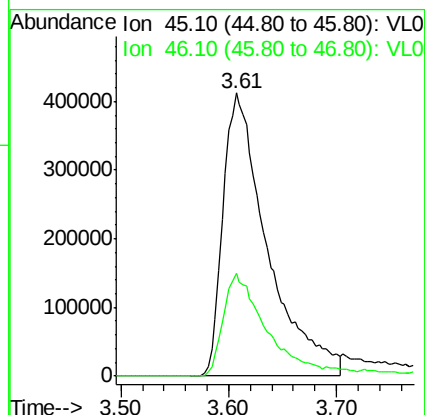
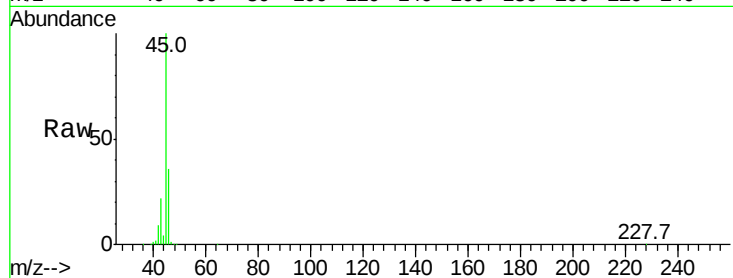
Acq: 1 Mar 2022 17:50

Tgt Ion: 45 Resp: 1181872

Ion Ratio Lower Upper

45 100

46 37.8 18.2 72.8



#15

Acetone

Concen: 3.43 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL038455.D

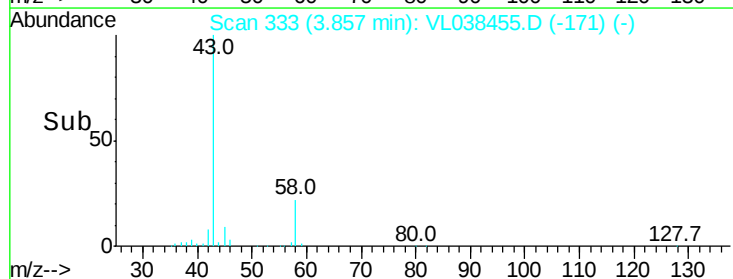
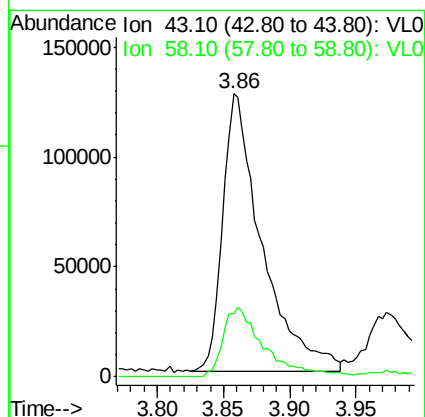
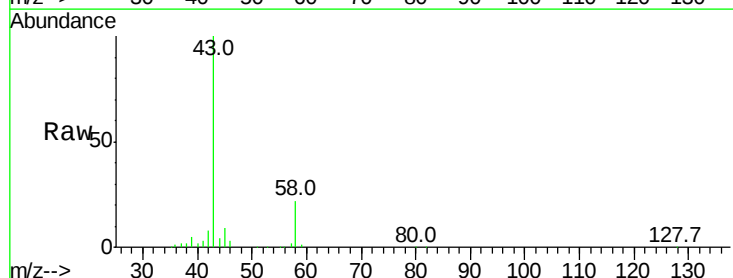
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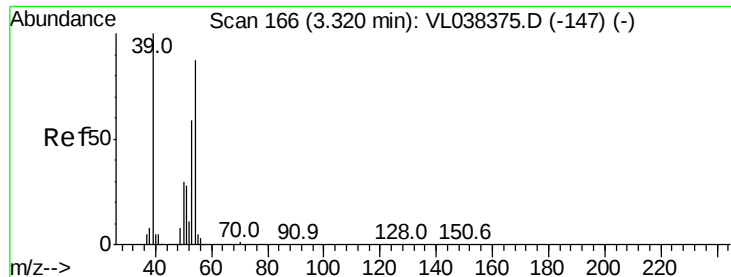
Tgt Ion: 43 Resp: 258861

Ion Ratio Lower Upper

43 100

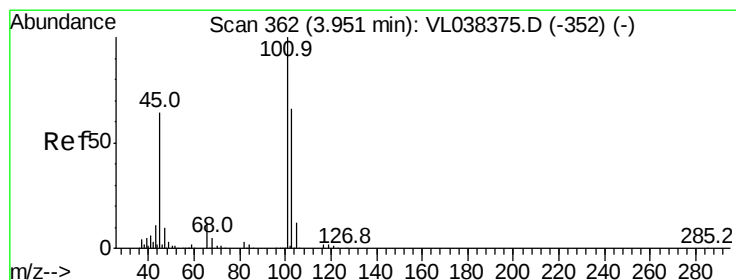
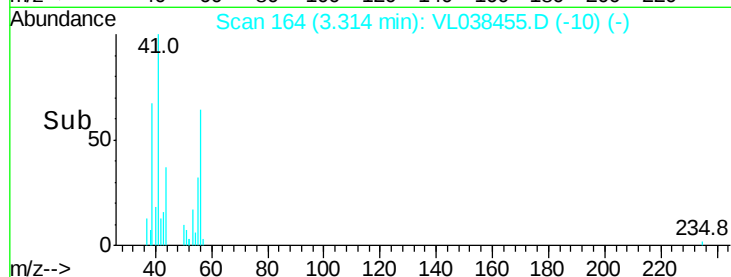
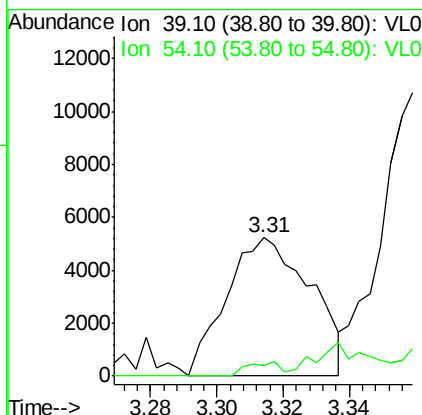
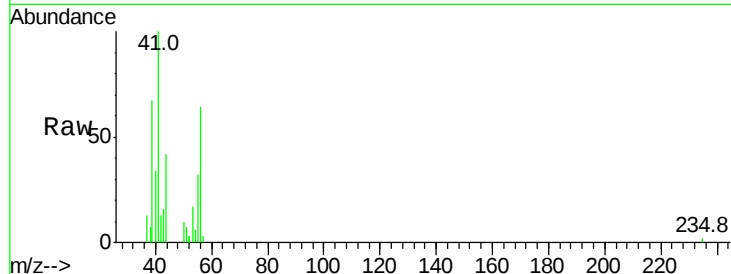
58 26.6 21.7 32.5





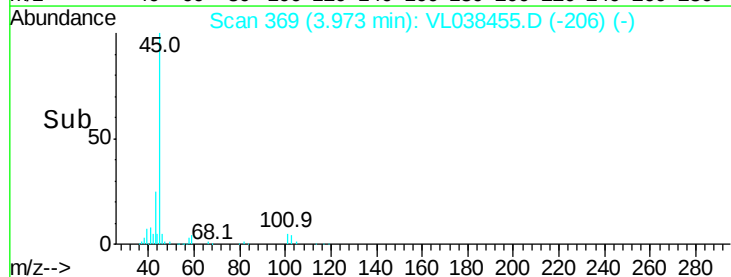
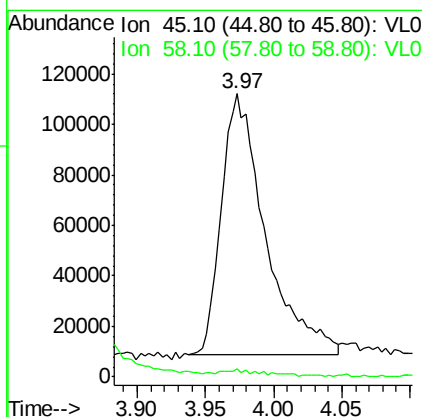
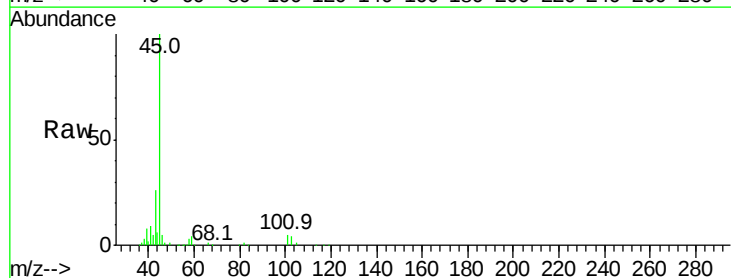
#16
 1,3-Butadiene
 Concen: 0.18 ppbv
 RT: 3.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 1 Mar 2022 17:50

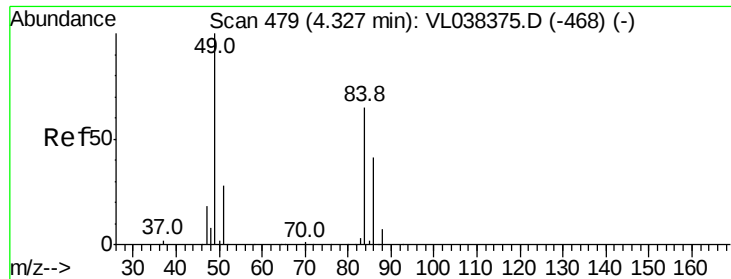
Tgt Ion: 39 Resp: 9255
 Ion Ratio Lower Upper
 39 100
 54 26.0 60.3 90.5#



#19
 Isopropyl Alcohol
 Concen: 5.26 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.02 min
 Lab File: VL038455.D
 Acq: 1 Mar 2022 17:50

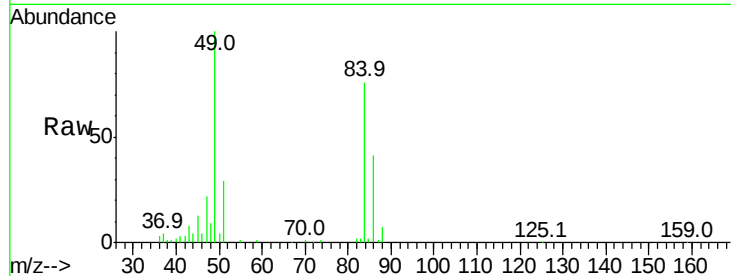
Tgt Ion: 45 Resp: 230180
 Ion Ratio Lower Upper
 45 100
 58 3.2 1.8 2.8#





#20
Methylene Chloride
Concen: 1.82 ppbv
RT: 4.36
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 1 Mar 2022 17:50

Tgt Ion:	84	Resp:	68045
Ion	Ratio	Lower	Upper
84	100		
49	132.3	122.4	183.6
51	37.8	33.3	49.9
86	53.6	50.7	76.1



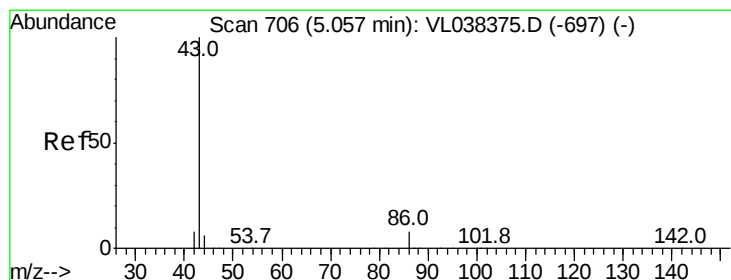
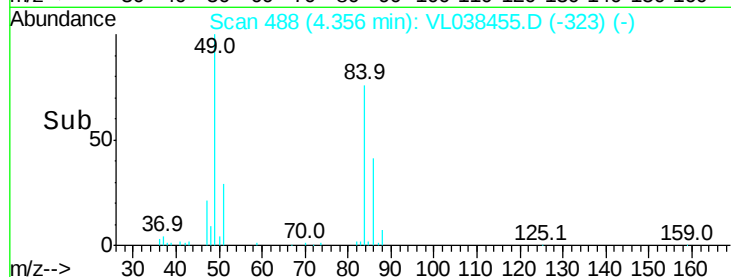
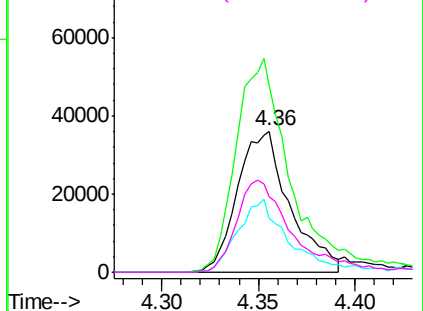
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

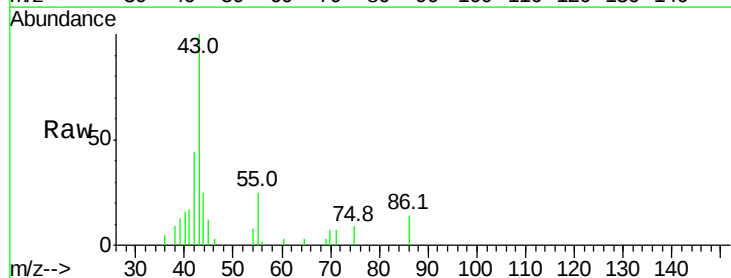
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#23
Vinyl Acetate
Concen: 0.10 ppbv
RT: 5.07 min Scan# 710
Delta R.T.: 0.01 min
Lab File: VL038455.D
Acq: 1 Mar 2022 17:50

Tgt Ion:	43	Resp:	9601
Ion	Ratio	Lower	Upper
43	100		
86	15.3	5.8	8.6#
42	33.3	7.4	11.0#
44	4.2	4.2	6.2



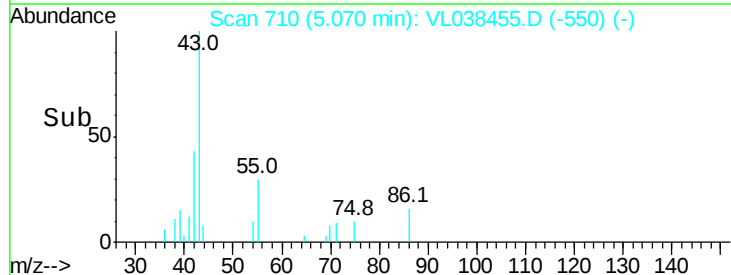
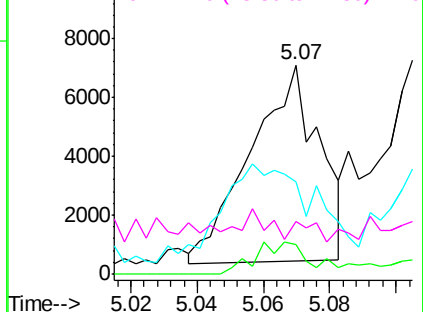
Abundance

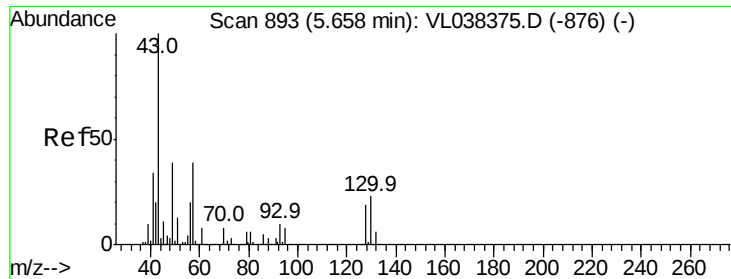
Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

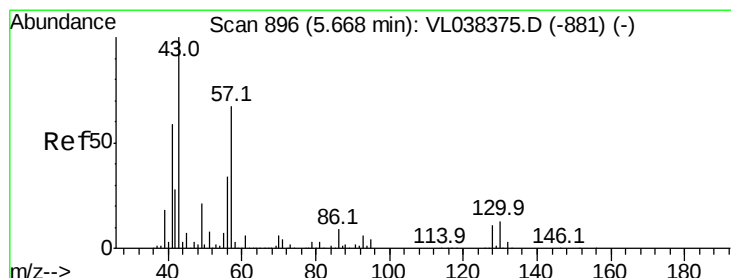
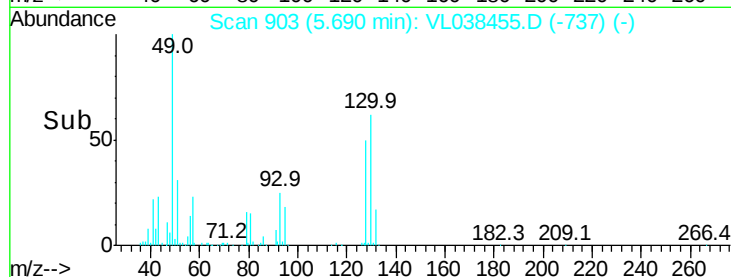
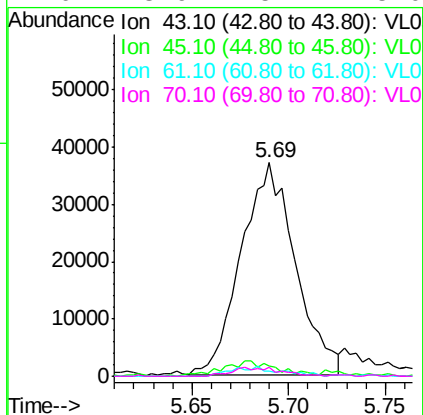
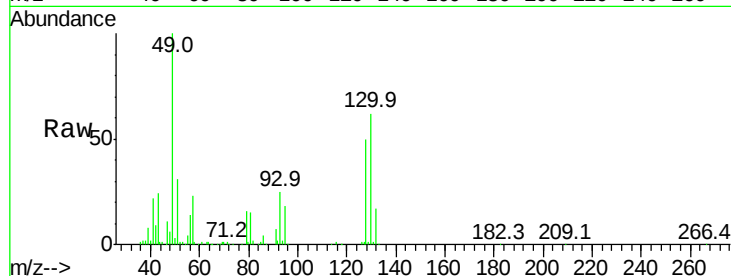
Ion 44.10 (43.80 to 44.80): VL0





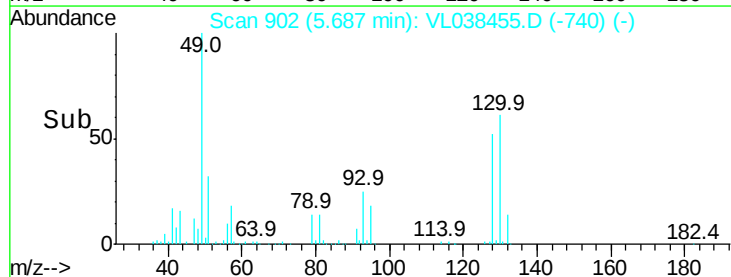
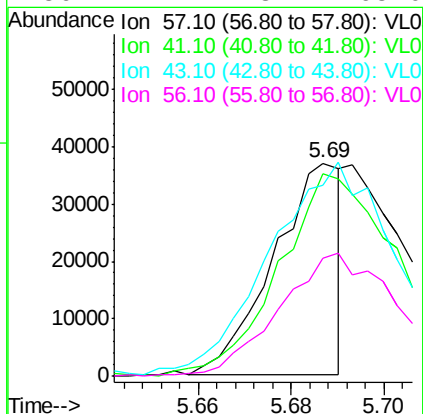
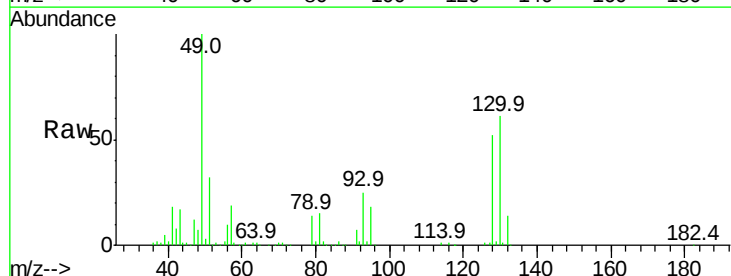
#25
 Ethyl Acetate
 Concen: 0.36 ppbv
 RT: 5.69
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 1 Mar 2022 17:50

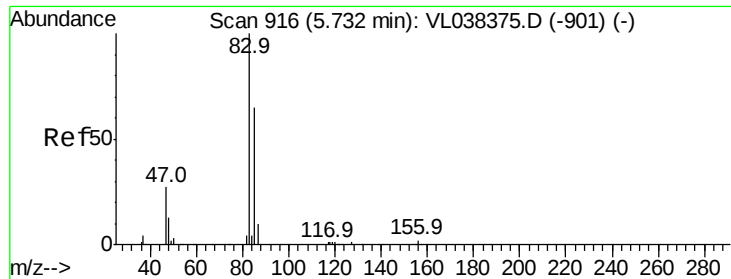
Tgt Ion:	43	Resp:	72146
Ion	Ratio	Lower	Upper
43	100		
45	7.4	7.8	11.6#
61	4.5	7.5	11.3#
70	3.9	5.4	8.0#



#26
 Hexane
 Concen: 0.41 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.02 min
 Lab File: VL038455.D
 Acq: 1 Mar 2022 17:50

Tgt Ion:	57	Resp:	37412
Ion	Ratio	Lower	Upper
57	100		
41	187.4	73.1	109.7#
43	219.5	181.0	271.4
56	111.2	43.4	65.0#





#29

Chloroform

Concen: 0.07 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

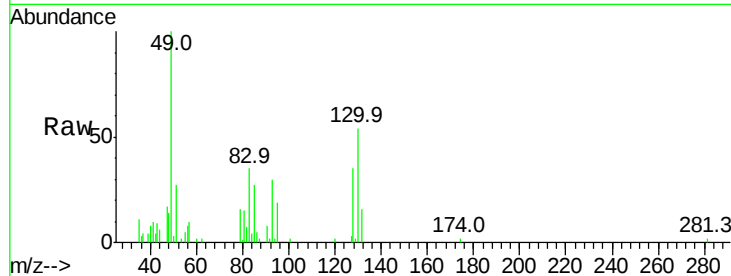
Acq: 1 Mar 2022 17:50

Tgt Ion: 83 Resp: 10287

Ion Ratio Lower Upper

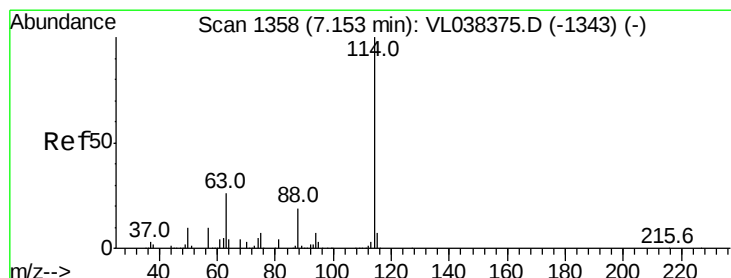
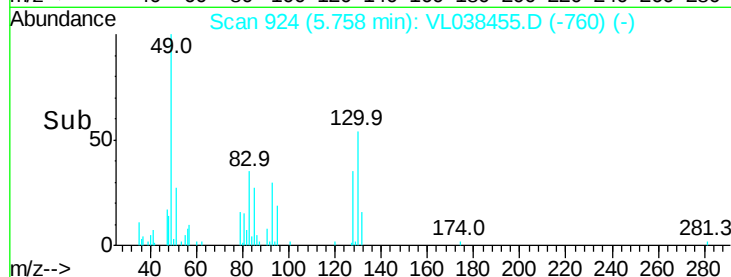
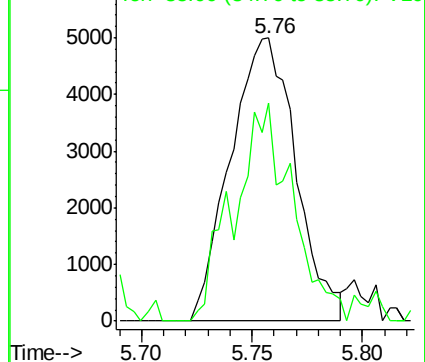
83 100

85 77.2 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. 0.02 min

Lab File: VL038455.D

Acq: 1 Mar 2022 17:50

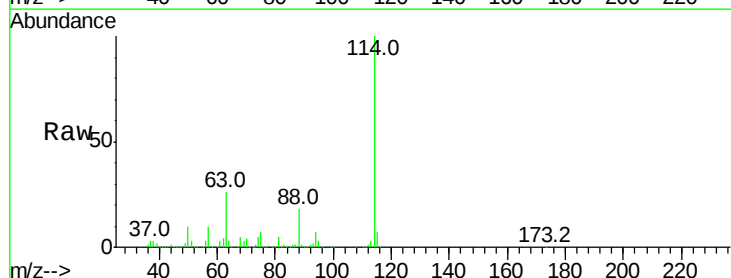
Tgt Ion: 114 Resp: 2278843

Ion Ratio Lower Upper

114 100

63 25.4 22.2 33.2

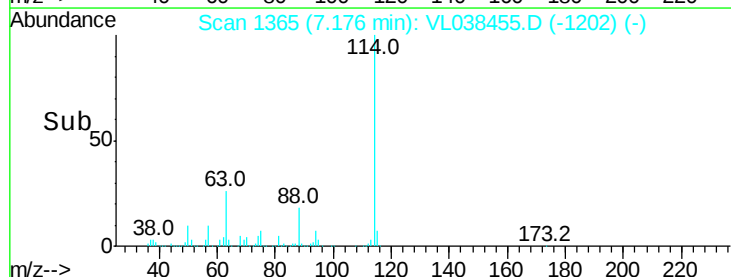
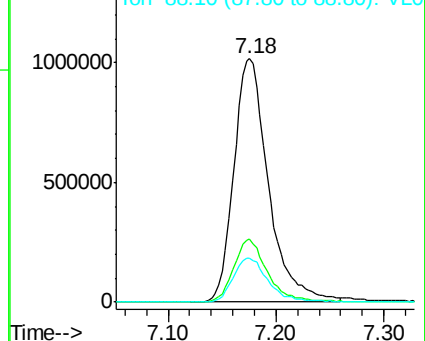
88 18.5 15.2 22.8

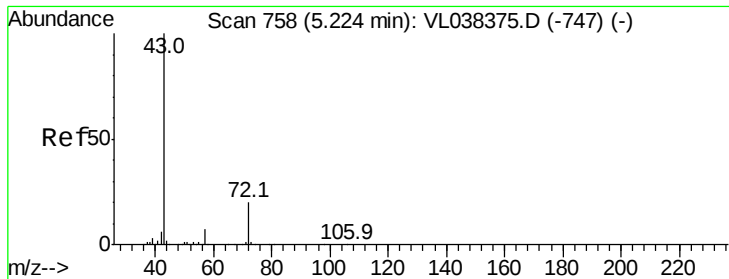


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.45 ppbv

RT: 5.25 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: A1

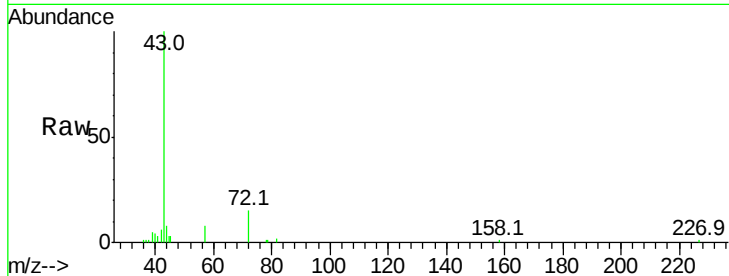
Acq: 1 Mar 2022 17:50

Tgt Ion: 43 Resp: 32496

Ion Ratio Lower Upper

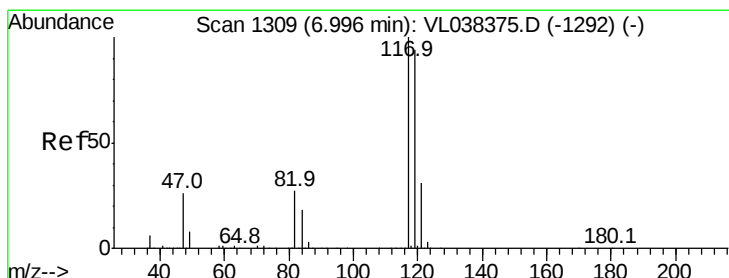
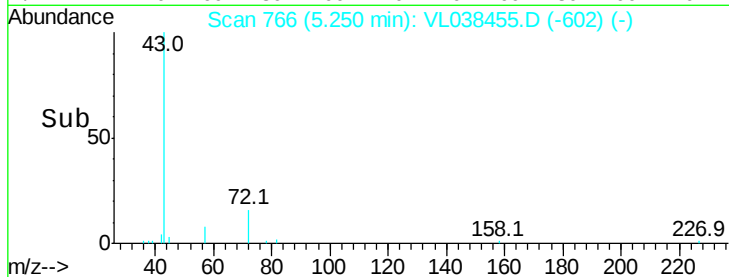
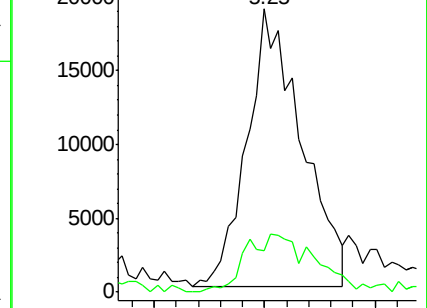
43 100

72 29.0 17.4 26.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.05 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. 0.03 min

Lab File: VL038455.D

Acq: 1 Mar 2022 17:50

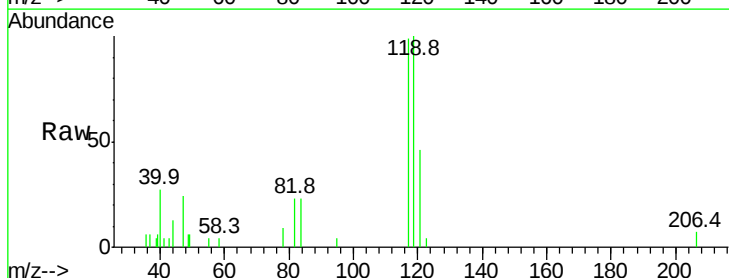
Tgt Ion: 117 Resp: 7826

Ion Ratio Lower Upper

117 100

119 91.3 74.9 112.3

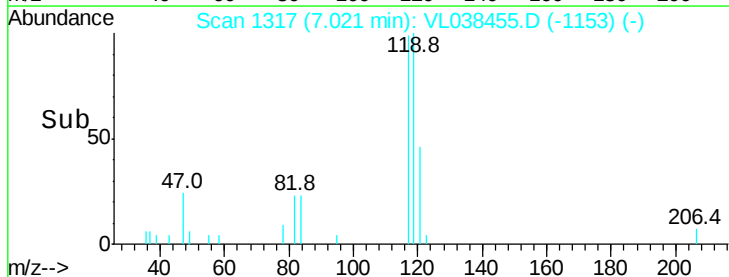
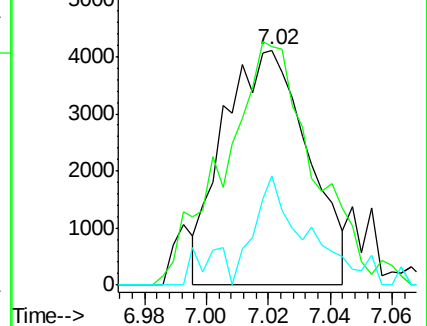
121 43.4 24.8 37.2#

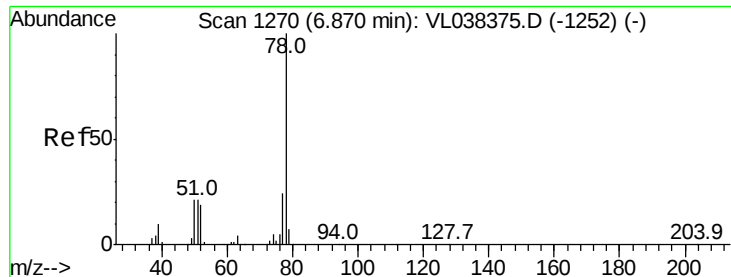


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

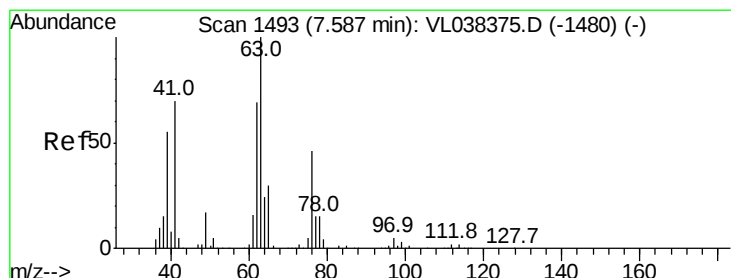
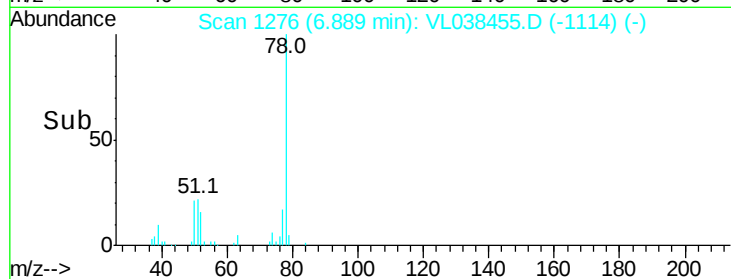
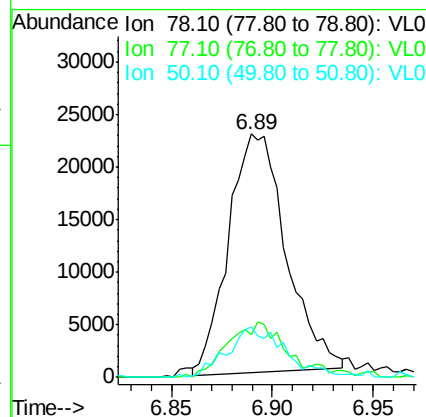
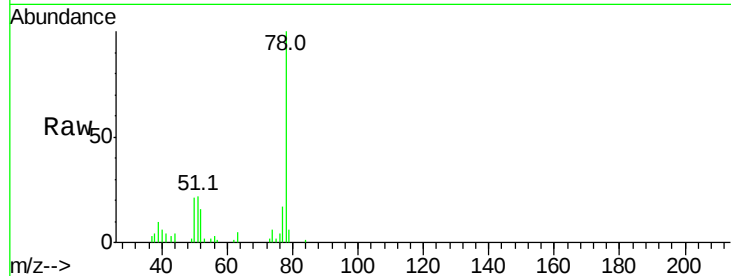
Ion 121.00 (120.70 to 121.70): V





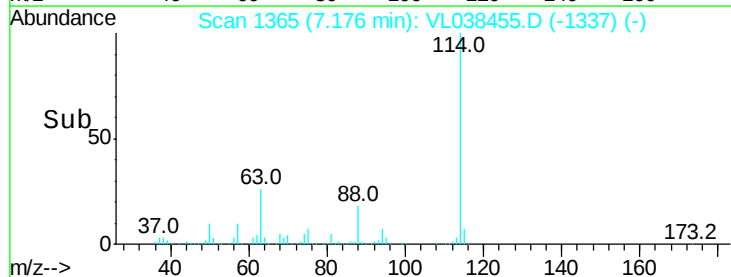
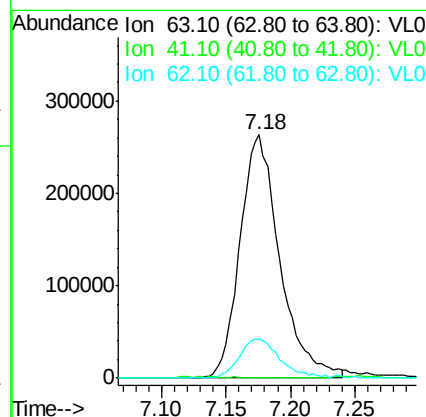
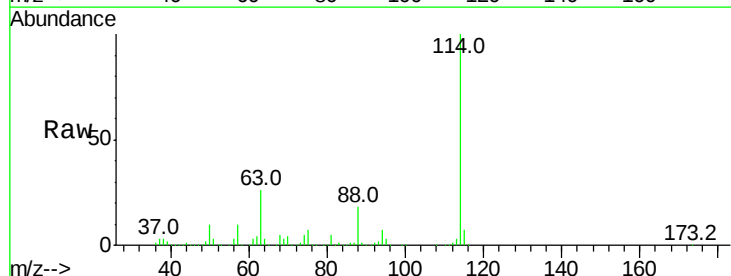
#36
Benzene
Concen: 0.23 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Mar 2022 17:50

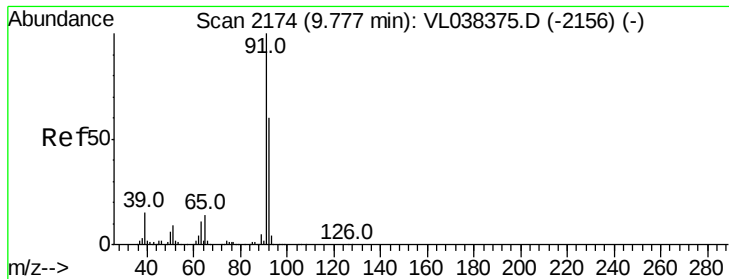
Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.2	19.0	28.6#
50	20.9	16.6	24.8



#39
1,2-Dichloropropane
Concen: 7.08 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.41 min
Lab File: VL038455.D
Acq: 1 Mar 2022 17:50

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.1	84.1#
62	15.8	55.5	83.3#





#53

Toluene

Concen: 0.14 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

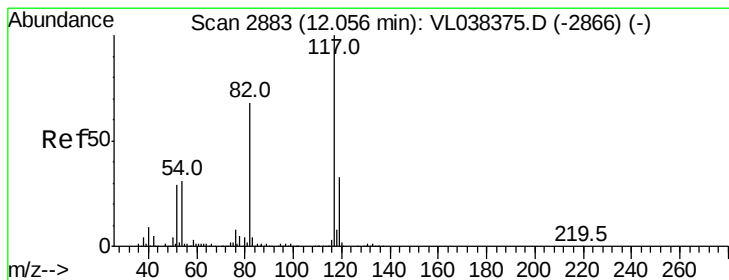
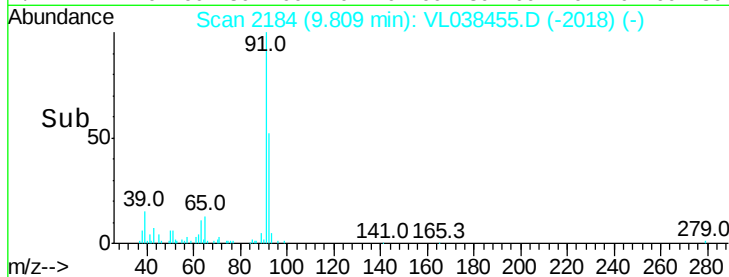
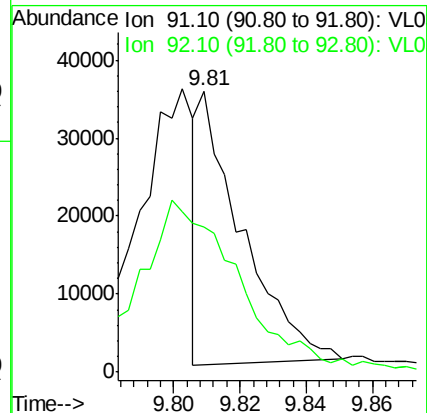
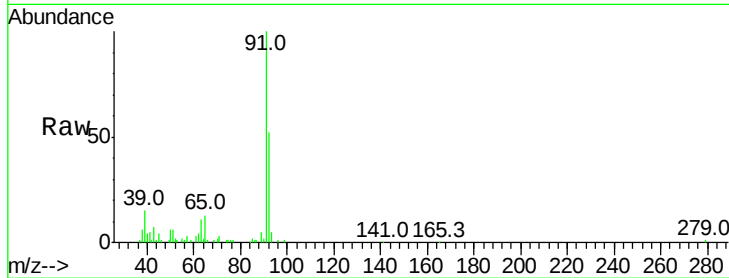
Acq: 1 Mar 2022 17:50

Tgt Ion: 91 Resp: 31414

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.4#



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.03 min

Lab File: VL038455.D

Acq: 1 Mar 2022 17:50

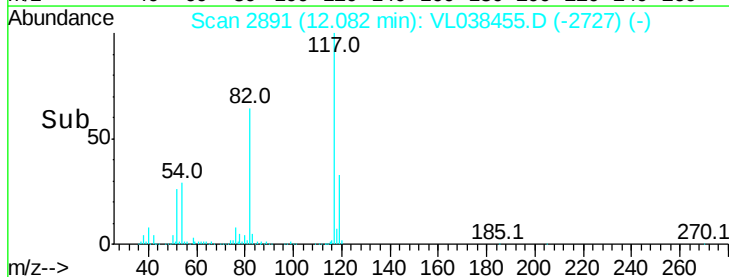
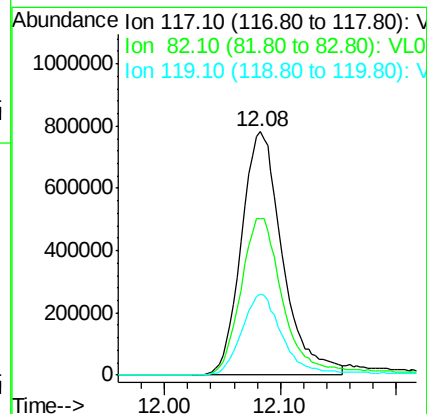
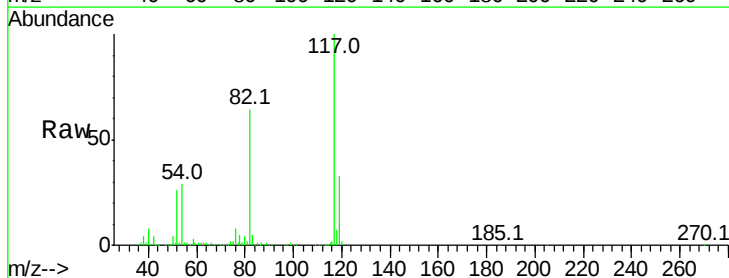
Tgt Ion: 117 Resp: 1926352

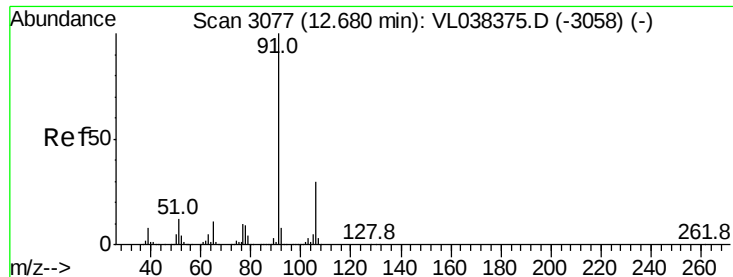
Ion Ratio Lower Upper

117 100

82 70.5 54.9 82.3

119 34.2 46.1 69.1#





#58

Ethyl Benzene

Concen: 0.10 ppbv

RT: 12.97

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

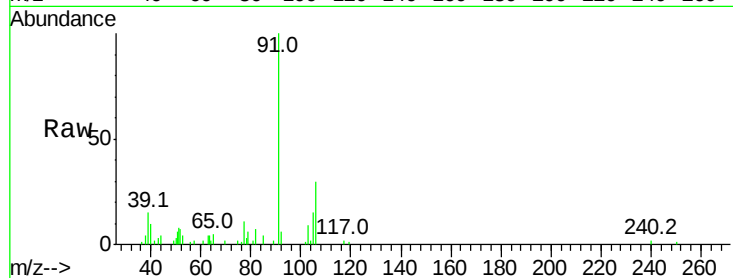
Acq: 1 Mar 2022 17:50

Tgt Ion: 91 Resp: 27314

Ion Ratio Lower Upper

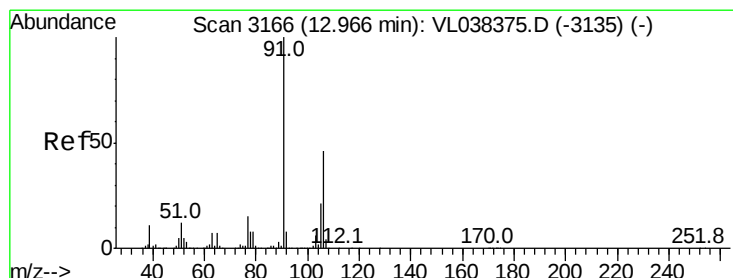
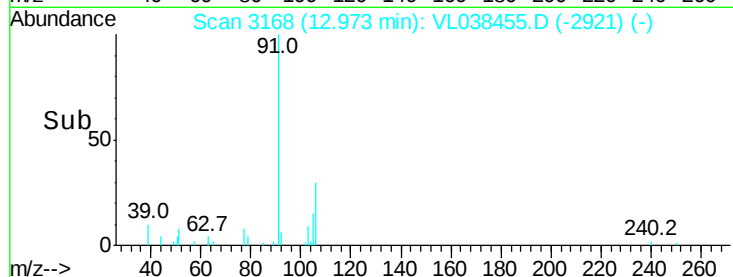
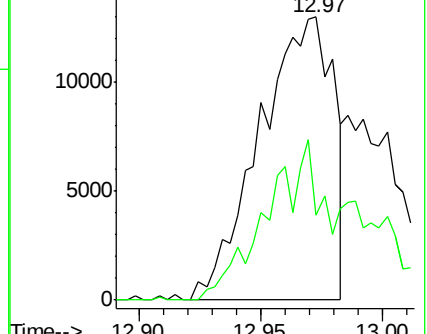
91 100

106 29.8 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.03 ppbv

RT: 13.00 min Scan# 3177

Delta R.T. 0.04 min

Lab File: VL038455.D

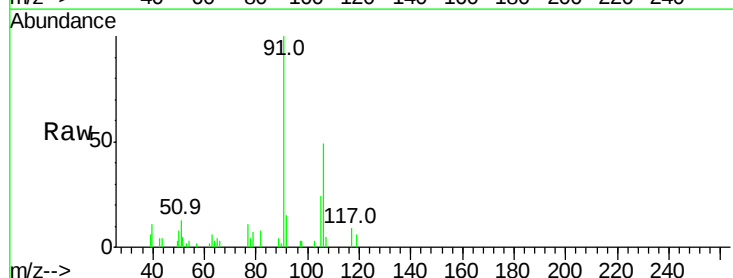
Acq: 1 Mar 2022 17:50

Tgt Ion: 91 Resp: 7227

Ion Ratio Lower Upper

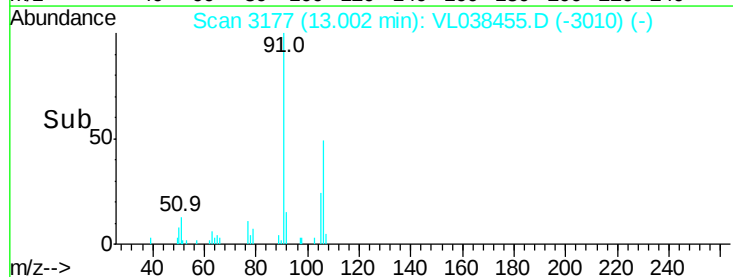
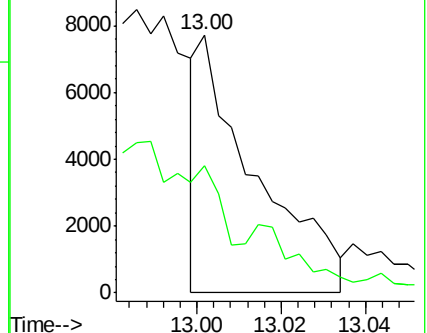
91 100

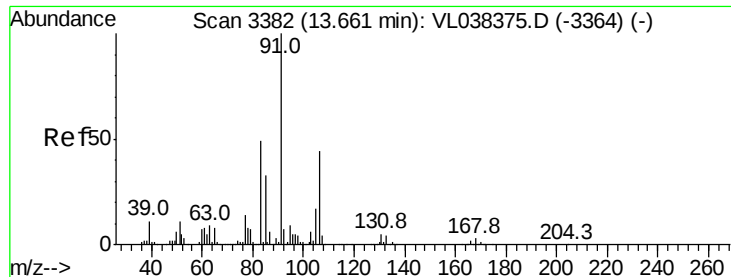
106 0.0 34.4 51.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

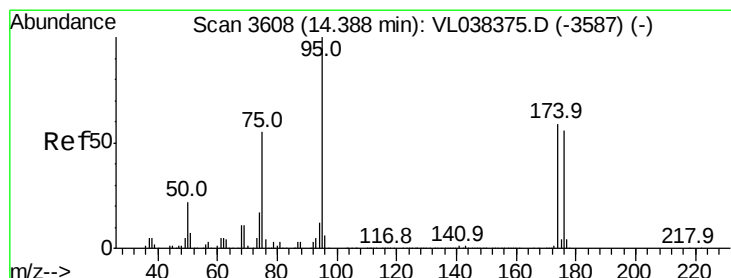
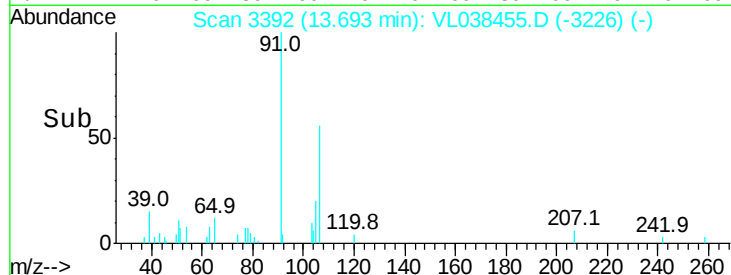
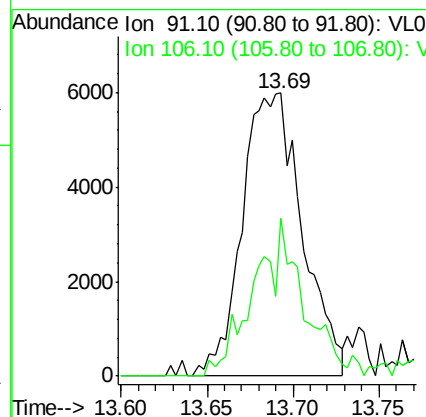
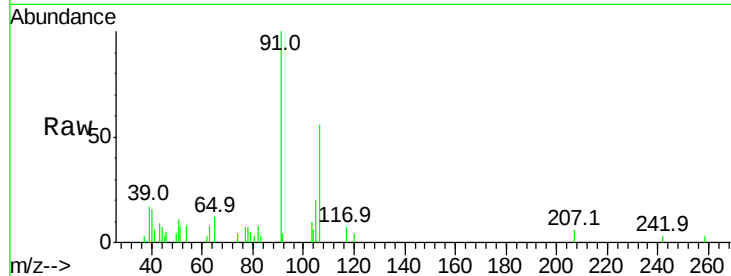
Ion 106.10 (105.80 to 106.80): V





#60
o-Xylene
Concen: 0.07 ppbv
RT: 13.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Mar 2022 17:50

Tgt Ion: 91 Resp: 14557
Ion Ratio Lower Upper
91 100
106 47.7 21.9 65.5



#68
1-Bromo-4-Fluorobenzene
Concen: 8.79 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. 0.02 min
Lab File: VL038455.D
Acq: 1 Mar 2022 17:50

Tgt Ion: 95 Resp: 1400506
Ion Ratio Lower Upper
95 100
174 68.4 49.0 73.4
175 5.0 3.6 5.4

