

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039048.D
 Acq On : 13 May 2022 22:28
 Operator : SY/AP
 Sample : N2812-03DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DL

Quant Time: May 14 00:55:15 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	952764	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2440895	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2001740	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1446598	9.13	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.30%

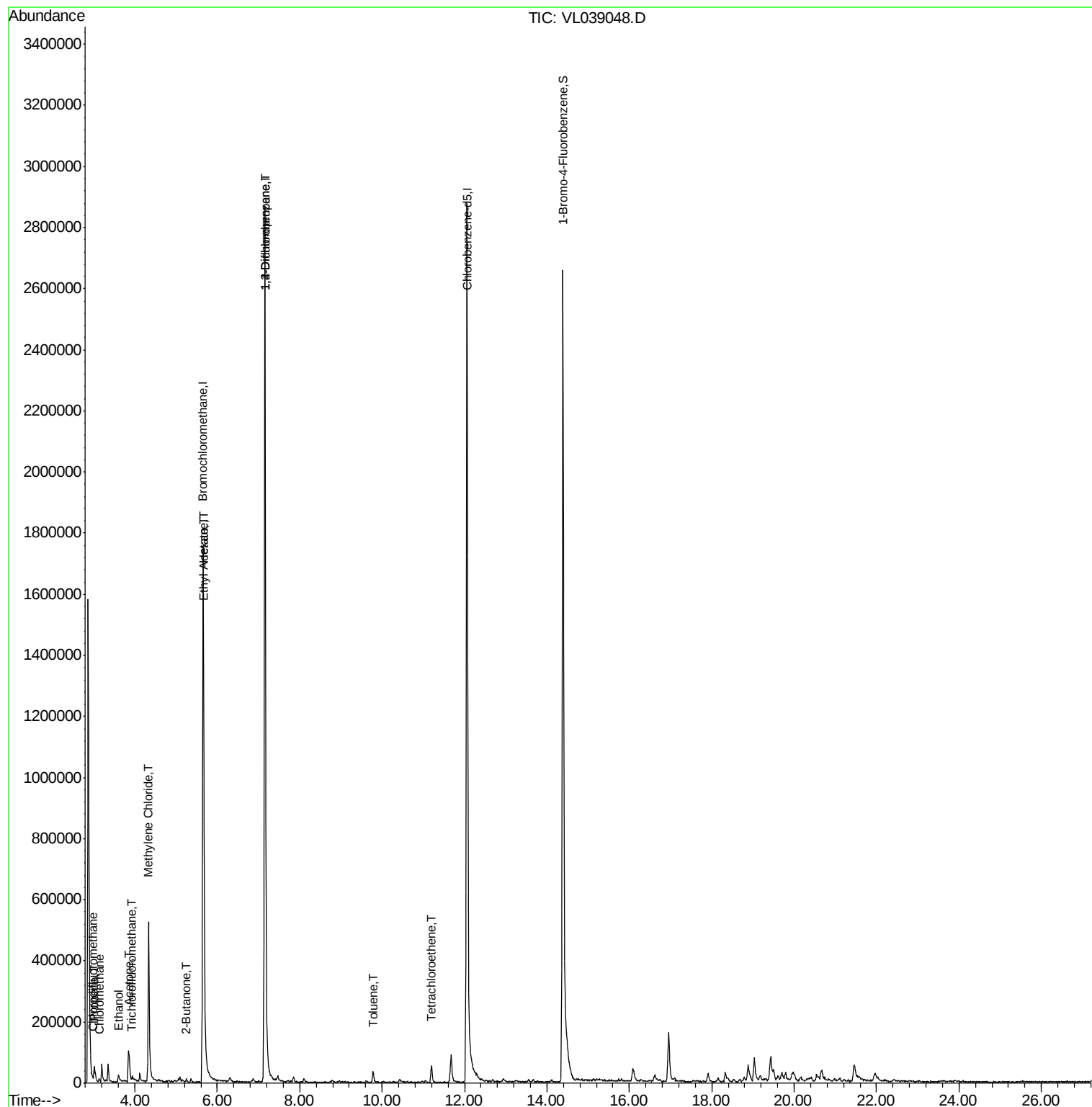
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	18738	0.158	ppbv #	80
4) Chloromethane	3.14	50	6382	0.108	ppbv #	54
9) Propene	3.02	41	13125	0.254	ppbv	85
11) Trichlorofluoromethane	3.94	101	5263	0.041	ppbv #	82
13) Ethanol	3.60	45	14619	4.001	ppbv #	31
15) Acetone	3.84	43	102949	1.145	ppbv #	77
20) Methylene Chloride	4.33	84	218158	6.440	ppbv	96
25) Ethyl Acetate	5.67	43	158666	0.738	ppbv #	78
26) Hexane	5.67	57	225594	2.360	ppbv #	39
34) 2-Butanone	5.25	43	8107	0.065	ppbv #	69
39) 1,2-Dichloropropane	7.15	63	611009	7.518	ppbv #	25
52) Tetrachloroethene	11.19	164	5111	0.068	ppbv #	76
53) Toluene	9.78	91	17966	0.077	ppbv #	55

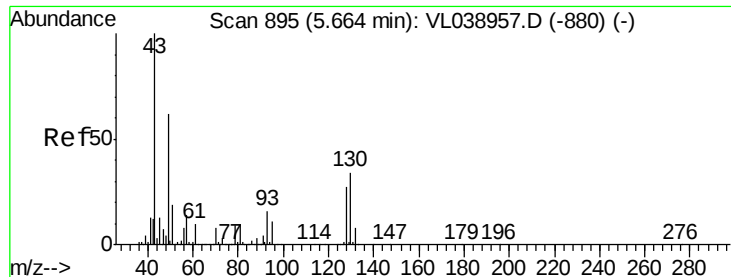
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 13 May 2022 22:28

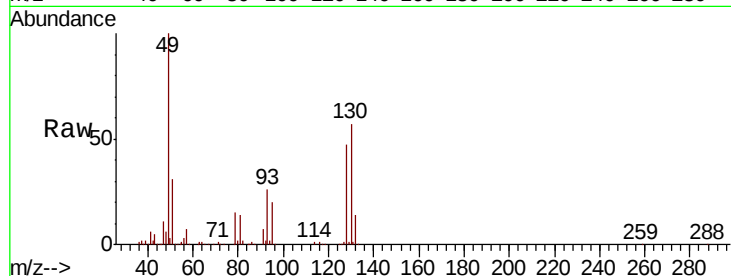
Tot Ion: 49 Resp: 952764

Ion Ratio Lower Upper

49 100

128 48.8 23.3 69.8

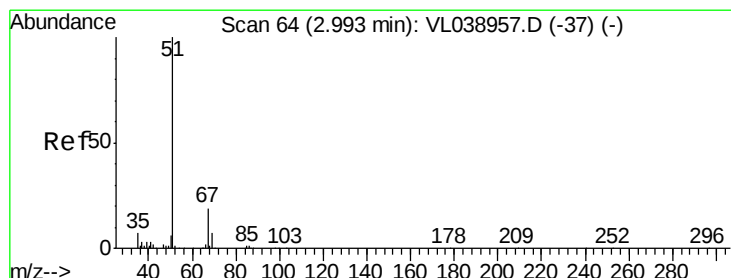
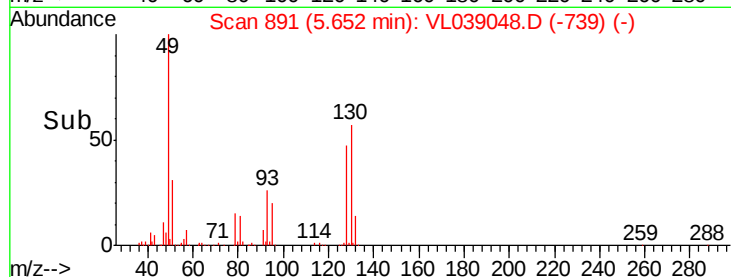
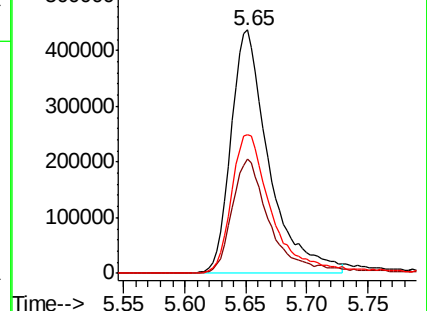
130 62.3 29.8 89.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.158 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL039048.D

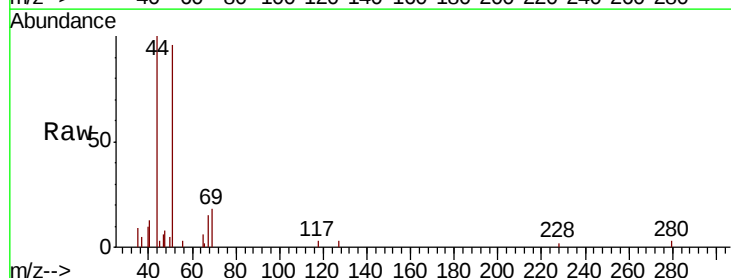
Acq: 13 May 2022 22:28

Tgt Ion: 51 Resp: 18738

Ion Ratio Lower Upper

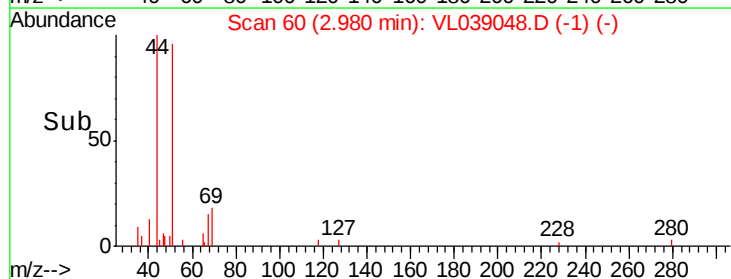
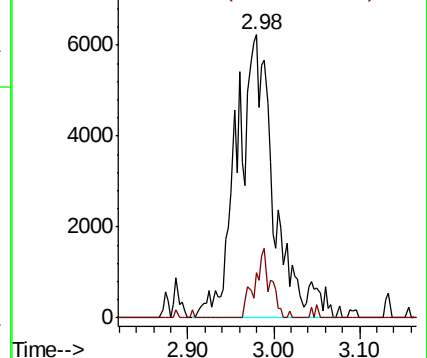
51 100

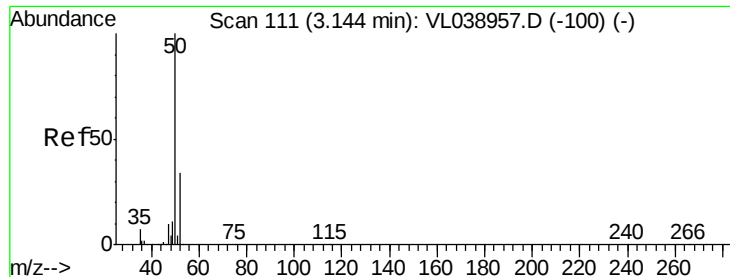
67 10.5 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.108 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

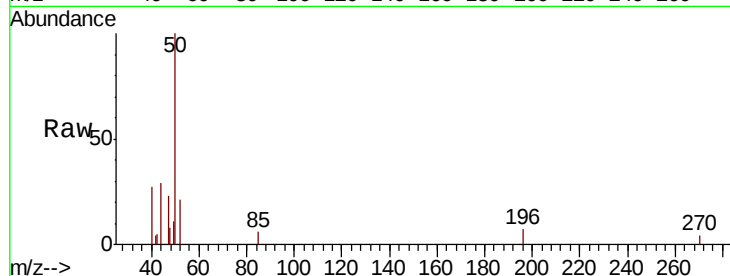
Acq: 13 May 2022 22:28

Tot Ion: 50 Resp: 6382

Ion Ratio Lower Upper

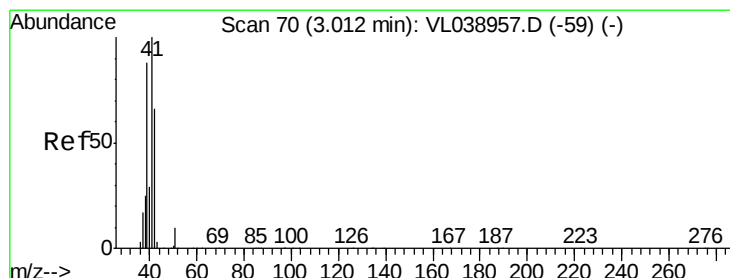
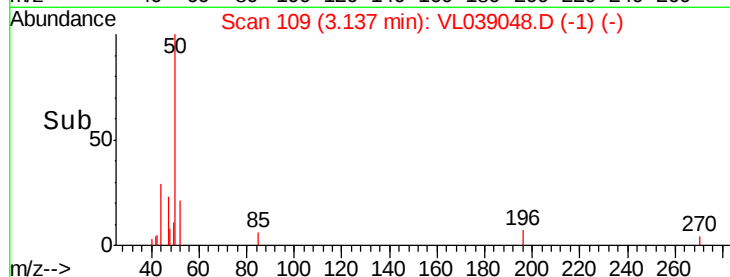
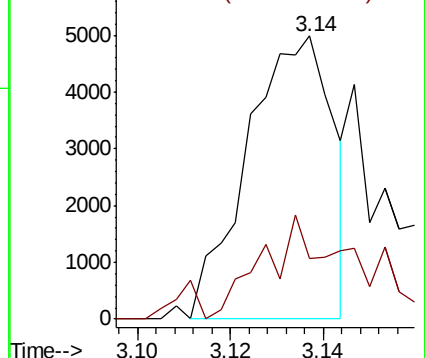
50 100

52 7.9 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.254 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL039048.D

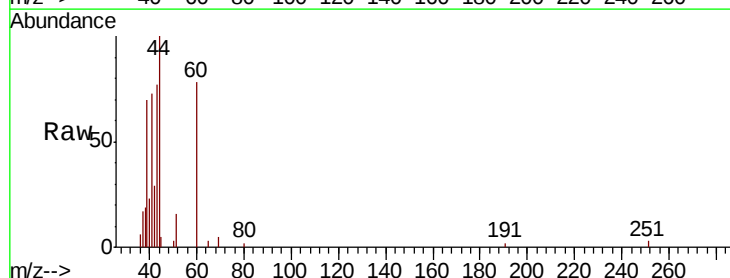
Acq: 13 May 2022 22:28

Tgt Ion: 41 Resp: 13125

Ion Ratio Lower Upper

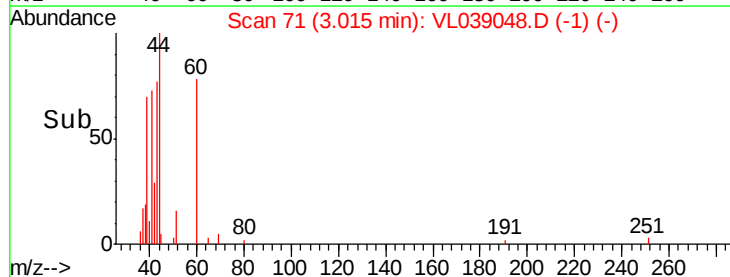
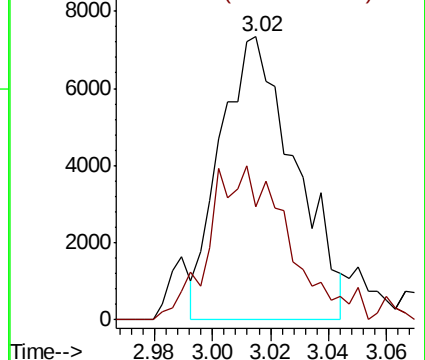
41 100

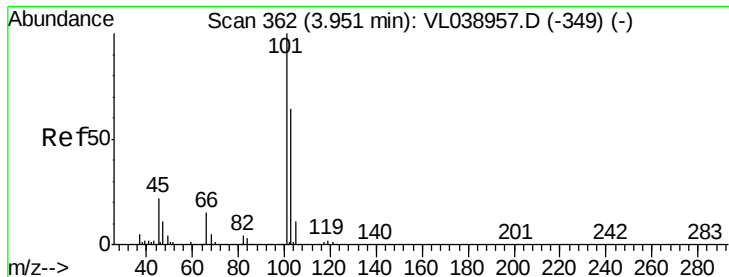
42 59.9 58.3 87.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

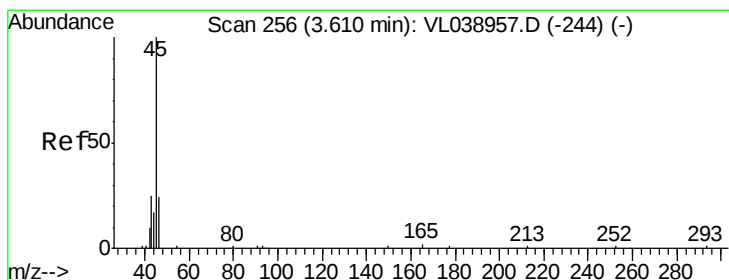
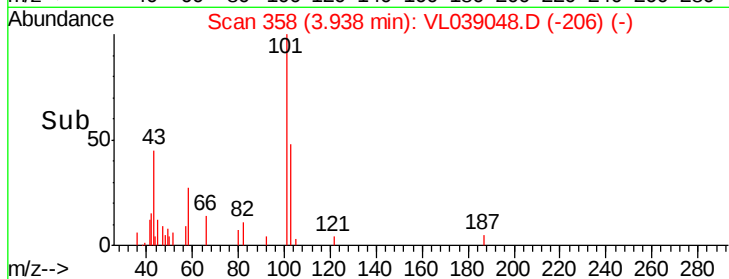
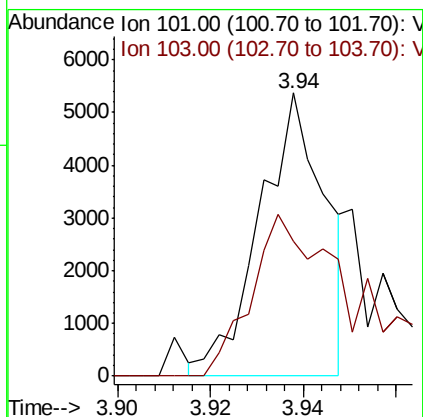
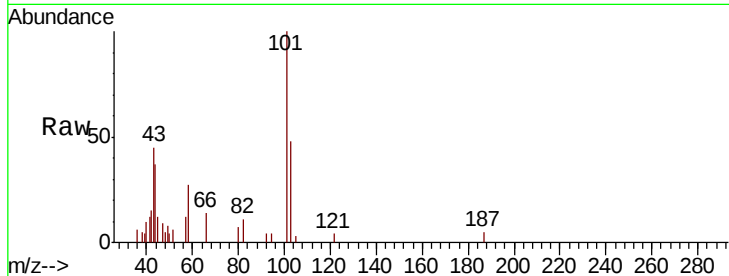
Ion 42.10 (41.80 to 42.80): VL0





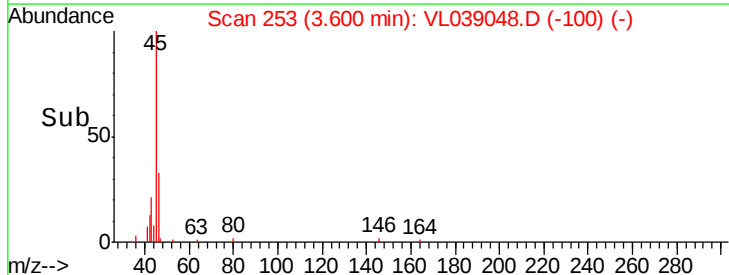
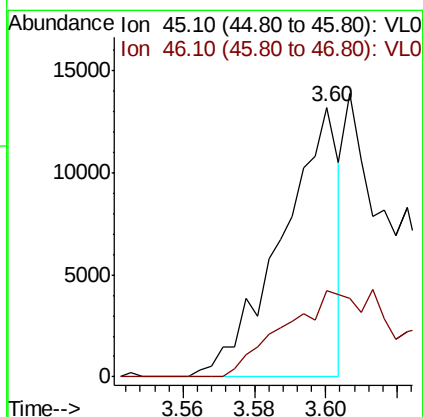
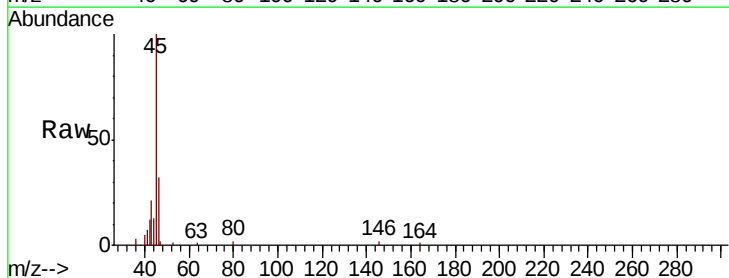
#11
 Trichlorofluoromethane
 Concen: 0.041 ppbv
 RT: 3.94
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 May 2022 22:28

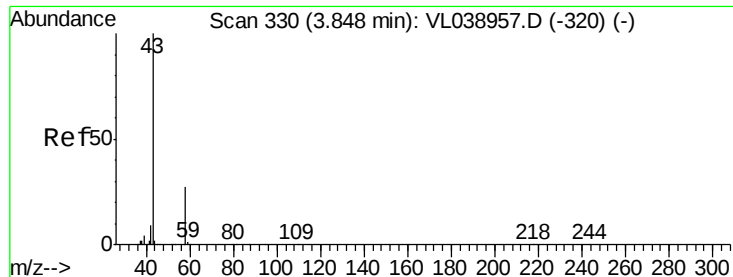
Tot Ion: 101 Resp: 5263
 Ion Ratio Lower Upper
 101 100
 103 50.2 51.5 77.3#



#13
 Ethanol
 Concen: 4.001 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VL039048.D
 Acq: 13 May 2022 22:28

Tgt Ion: 45 Resp: 14619
 Ion Ratio Lower Upper
 45 100
 46 0.0 18.0 72.2#





#15

Acetone

Concen: 1.145 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

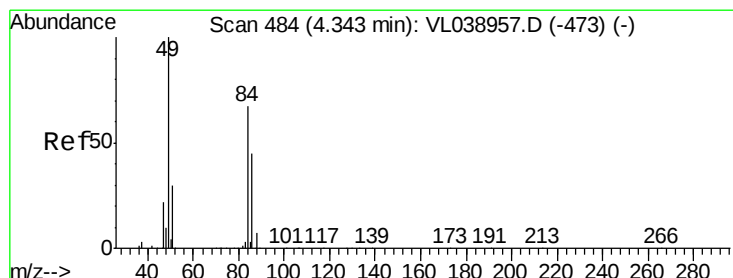
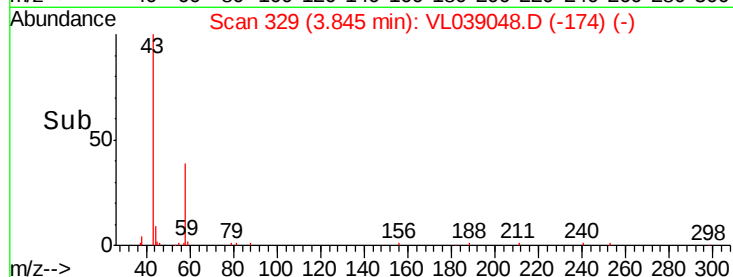
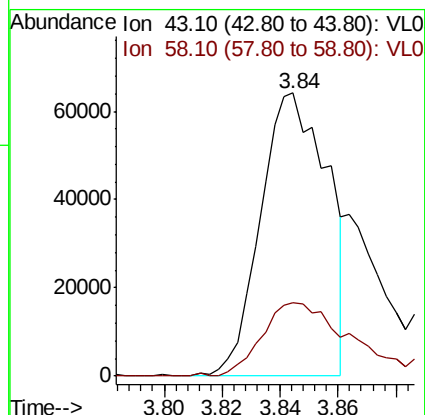
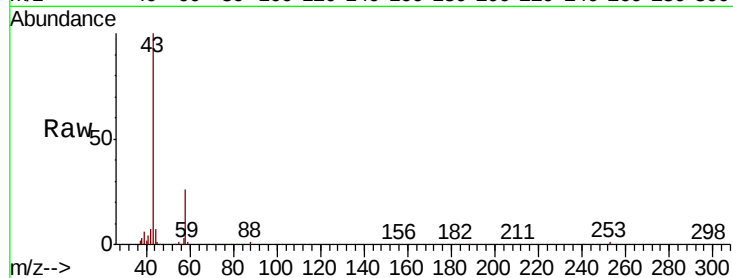
Acq: 13 May 2022 22:28

Tot Ion: 43 Resp: 102949

Ion Ratio Lower Upper

43 100

58 38.3 21.3 31.9#



#20

Methylene Chloride

Concen: 6.440 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL039048.D

Acq: 13 May 2022 22:28

Tgt Ion: 84 Resp: 218158

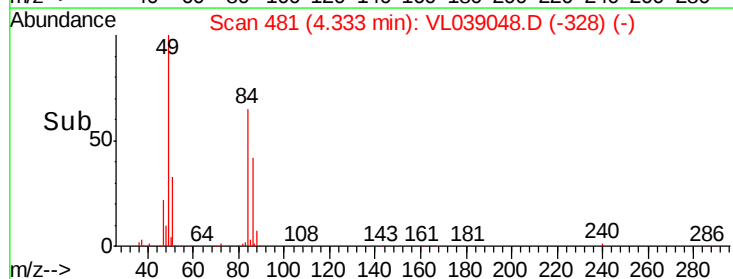
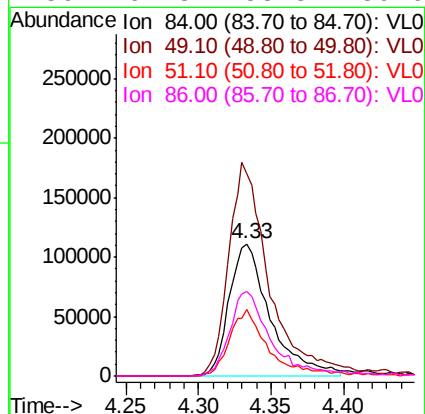
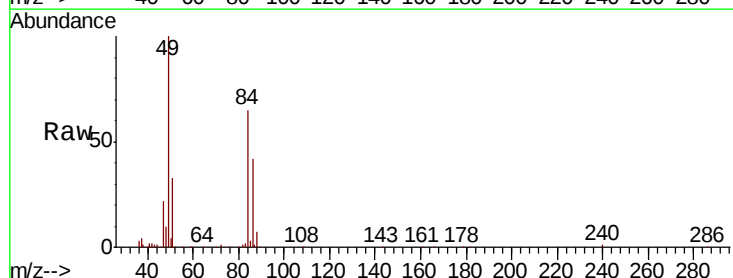
Ion Ratio Lower Upper

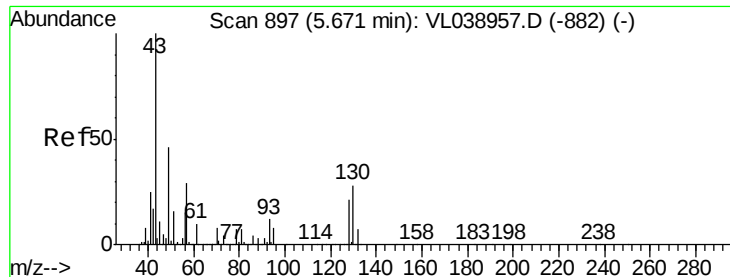
84 100

49 152.7 119.9 179.9

51 50.5 35.7 53.5

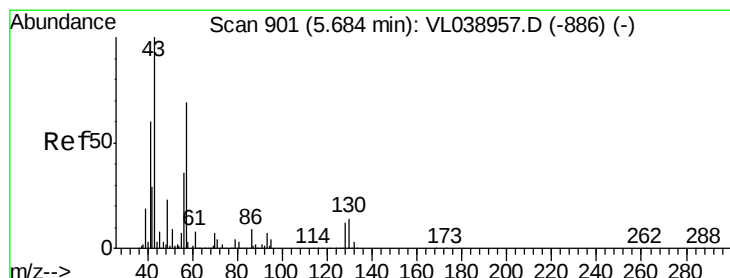
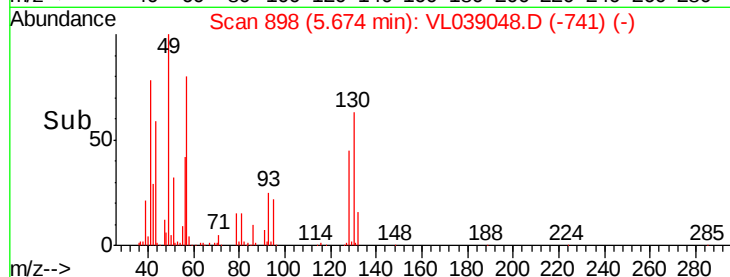
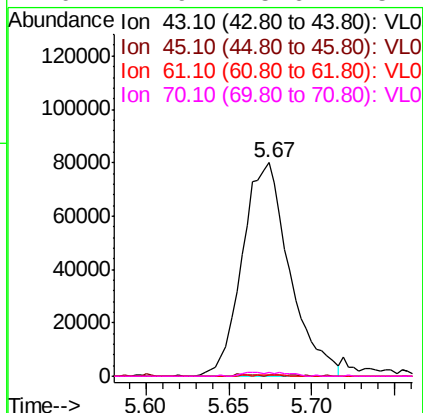
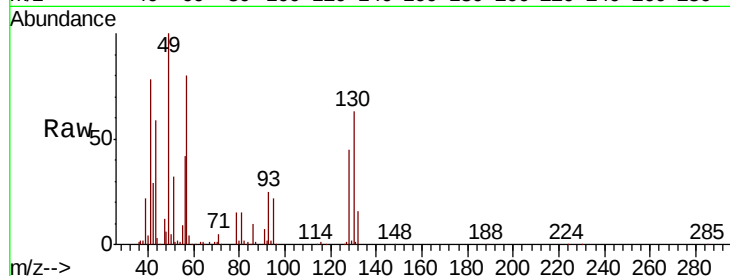
86 64.3 53.8 80.6





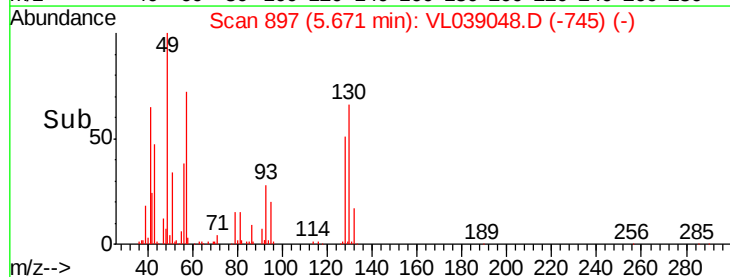
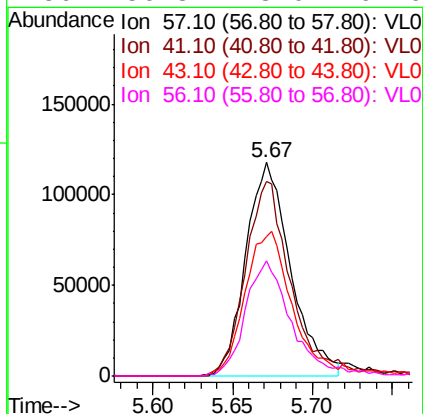
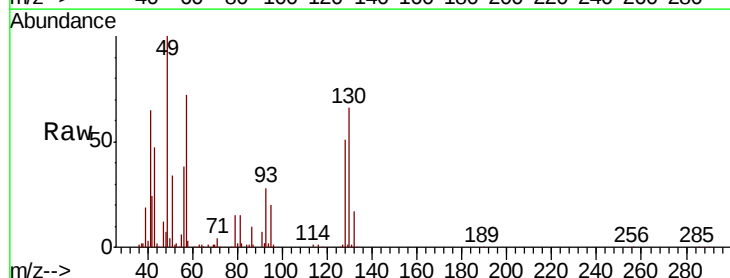
#25
Ethyl Acetate
Concen: 0.738 ppbv
RT: 5.67 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 13 May 2022 22:28

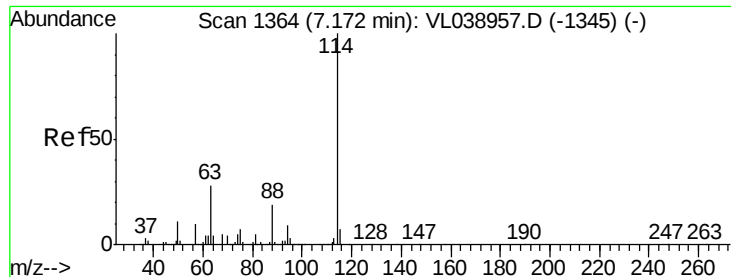
Tot Ion:	43	Resp:	158666
Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.1	12.1#
61	0.4	7.8	11.6#
70	1.9	5.6	8.4#



#26
Hexane
Concen: 2.360 ppbv
RT: 5.67 min Scan# 897
Delta R.T.: -0.01 min
Lab File: VL039048.D
Acq: 13 May 2022 22:28

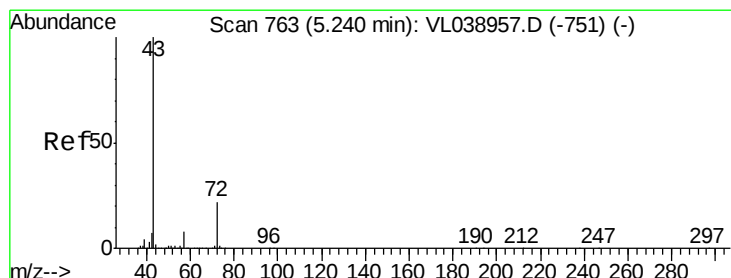
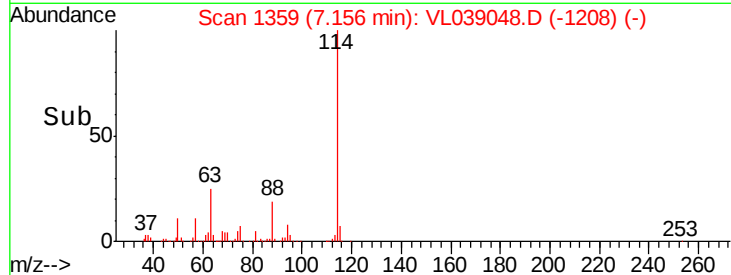
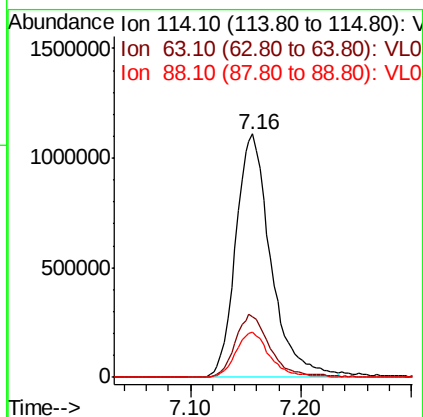
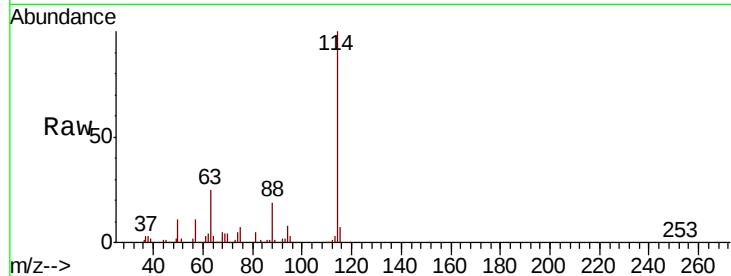
Tgt Ion:	57	Resp:	225594
Ion	Ratio	Lower	Upper
57	100		
41	95.3	75.2	112.8
43	74.5	190.8	286.2#
56	56.3	43.0	64.6





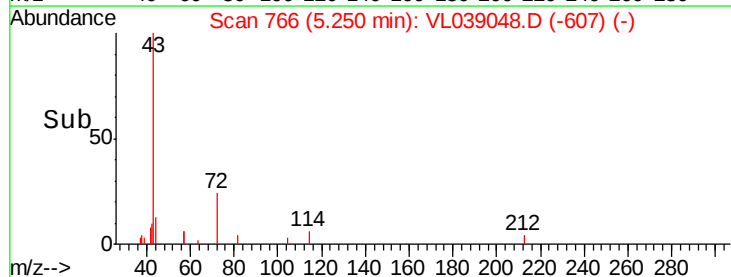
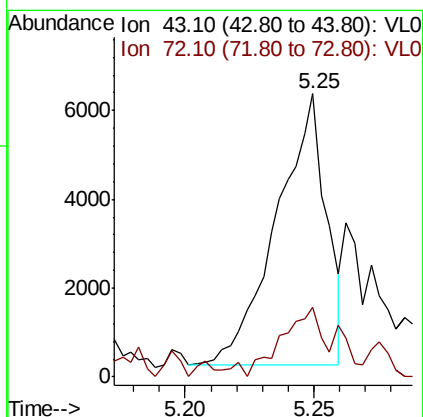
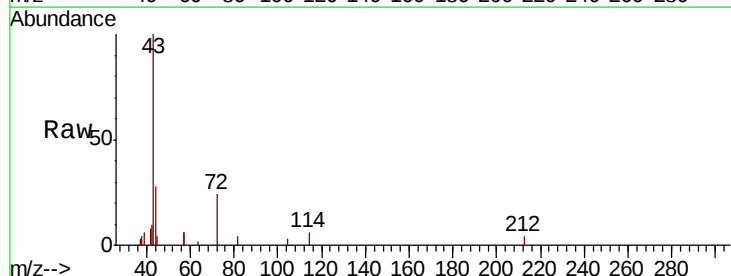
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 May 2022 22:28

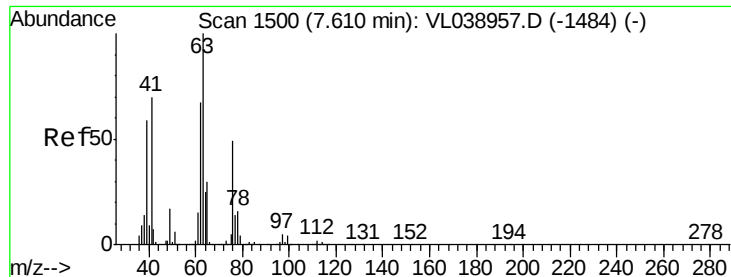
Tot Ion:	114	Resp:	2440895
Ion	Ratio	Lower	Upper
114	100		
63	26.2	22.6	33.8
88	18.6	15.4	23.0



#34
 2-Butanone
 Concen: 0.065 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.01 min
 Lab File: VL039048.D
 Acq: 13 May 2022 22:28

Tgt Ion:	43	Resp:	8107
Ion	Ratio	Lower	Upper
43	100		
72	37.0	17.8	26.6#





#39

1,2-Dichloropropane

Concen: 7.518 ppbv

RT: 7.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 May 2022 22:28

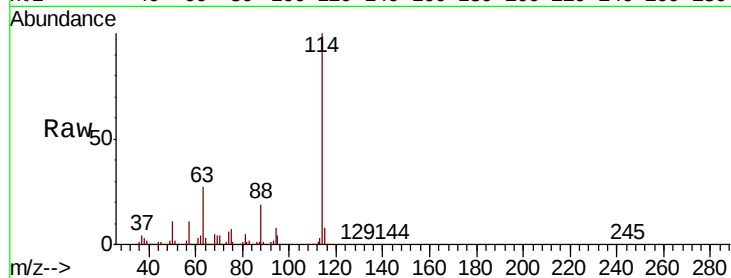
Tot Ion: 63 Resp: 611009

Ion Ratio Lower Upper

63 100

41 0.1 55.9 83.9#

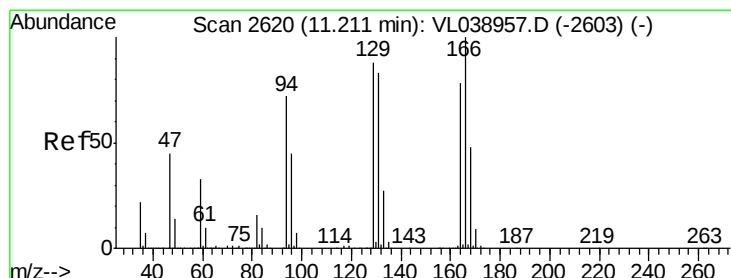
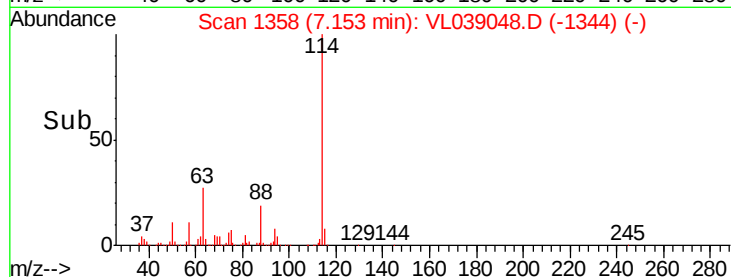
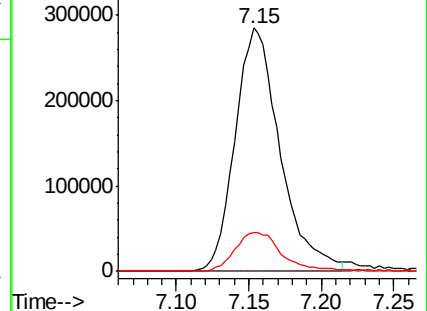
62 16.2 53.8 80.6#



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



#52

Tetrachloroethene

Concen: 0.068 ppbv

RT: 11.19 min Scan# 2614

Delta R.T. -0.02 min

Lab File: VL039048.D

Acq: 13 May 2022 22:28

Tgt Ion: 164 Resp: 5111

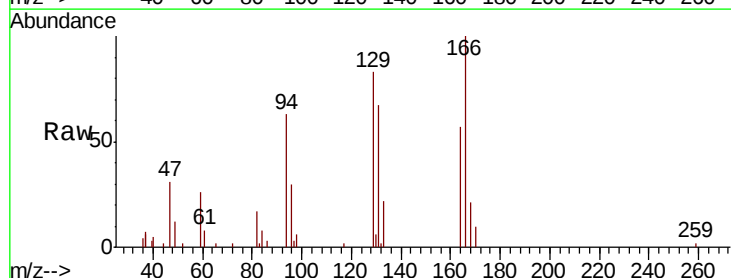
Ion Ratio Lower Upper

164 100

166 177.4 102.5 153.7#

129 131.7 90.1 135.1

131 113.3 84.8 127.2

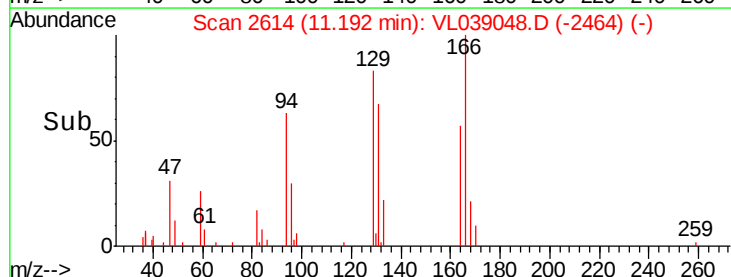
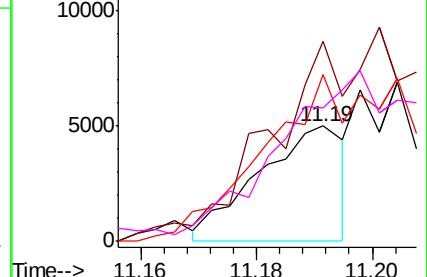


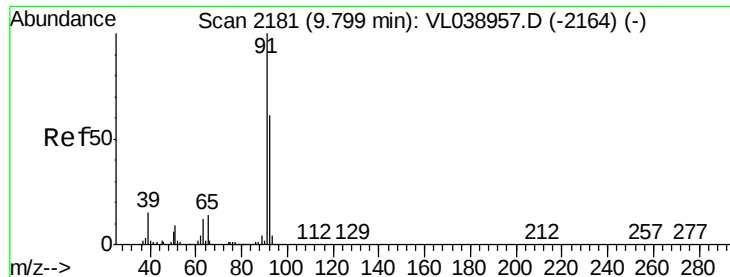
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.077 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

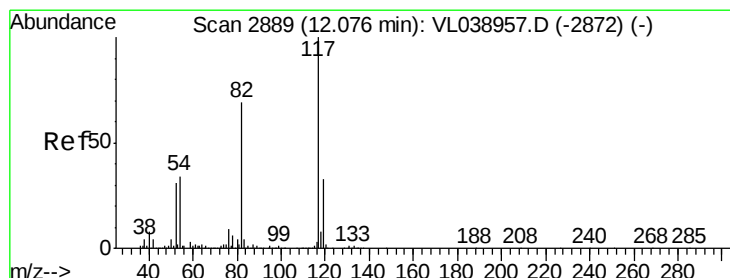
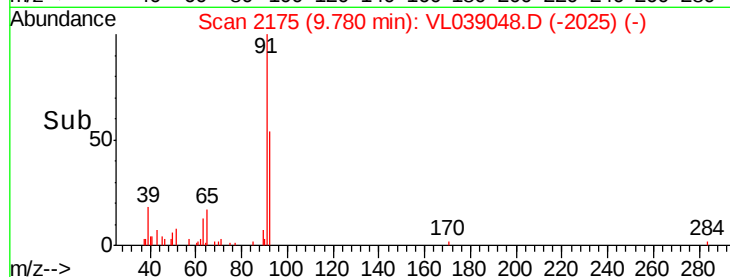
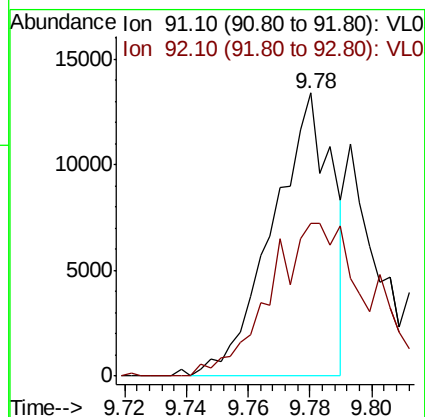
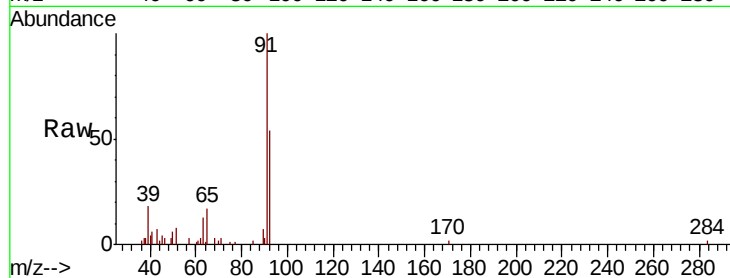
Acq: 13 May 2022 22:28

Tot Ion: 91 Resp: 17966

Ion Ratio Lower Upper

91 100

92 94.2 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL039048.D

Acq: 13 May 2022 22:28

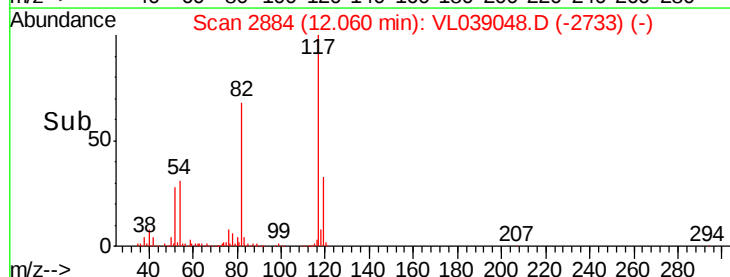
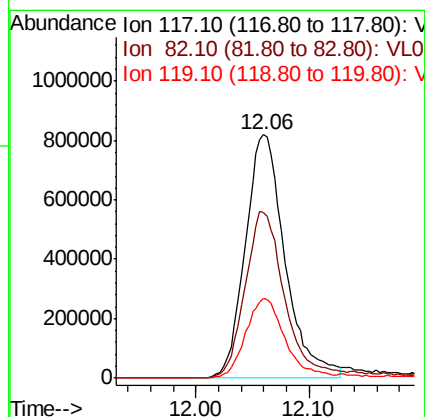
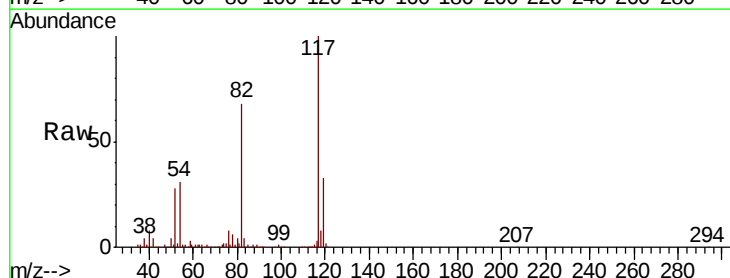
Tgt Ion: 117 Resp: 2001740

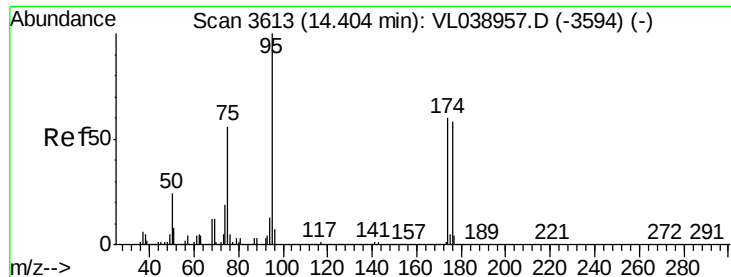
Ion Ratio Lower Upper

117 100

82 72.1 57.0 85.6

119 34.6 27.2 40.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.125 ppbv

RT: 14.39 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 May 2022 22:28

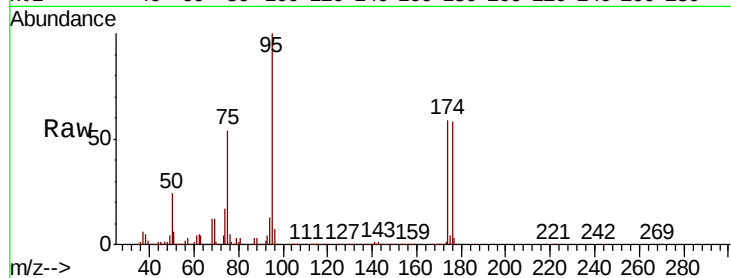
Tot Ion: 95 Resp: 1446598

Ion Ratio Lower Upper

95 100

174 70.8 50.8 76.2

175 5.1 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

