

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071922\
 Data File : VL039500.D
 Acq On : 20 Jul 2022 3:50
 Operator : SY/AP
 Sample : N3750-08
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

Quant Time: Jul 20 05:41:40 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 06 02:15:38 2022
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	985202	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	2846802	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	2497293	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1929778	10.42	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

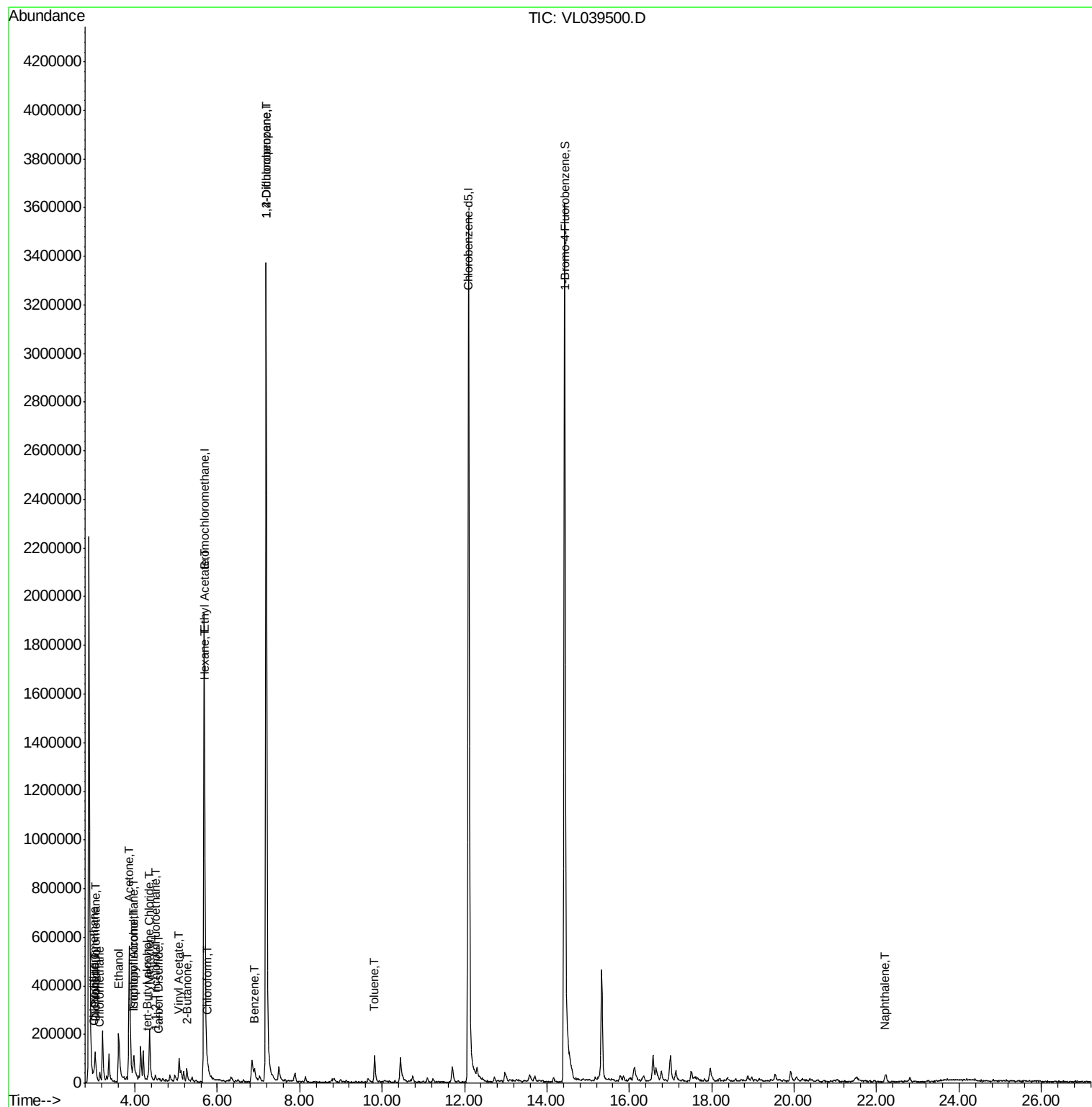
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	31415	0.221	ppbv	90
3) Chlorodifluoromethane	3.00	51	57999	0.464	ppbv #	91
4) Chloromethane	3.15	50	35251	0.516	ppbv	94
9) Propene	3.03	41	34061	0.603	ppbv	87
11) Trichlorofluoromethane	3.96	101	35677	0.225	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.50	101	7611	0.064	ppbv #	80
13) Ethanol	3.61	45	301066	91.931	ppbv	75
15) Acetone	3.85	43	756036	6.486	ppbv	93
17) tert-Butyl alcohol	4.31	59	5320	0.054	ppbv #	71
19) Isopropyl Alcohol	3.98	45	37117	0.597	ppbv #	51
20) Methylene Chloride	4.36	84	85605	1.843	ppbv	97
23) Vinyl Acetate	5.07	43	87151	1.119	ppbv #	88
25) Ethyl Acetate	5.70	43	45200	0.189	ppbv #	80
26) Hexane	5.70	57	91856	0.953	ppbv #	45
27) Carbon Disulfide	4.56	76	4802	0.041	ppbv #	1
29) Chloroform	5.77	83	5075	0.030	ppbv	96
34) 2-Butanone	5.26	43	70443	0.492	ppbv	98
36) Benzene	6.91	78	15303	0.069	ppbv #	86
39) 1,2-Dichloropropane	7.19	63	695324	8.448	ppbv #	24
53) Toluene	9.83	91	76087	0.299	ppbv	91
79) Naphthalene	22.21	128	14745	0.067	ppbv #	91

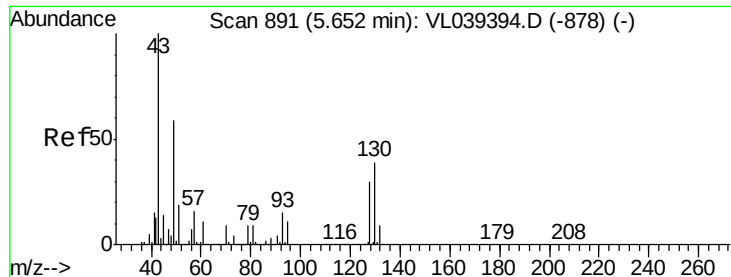
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL039500.D
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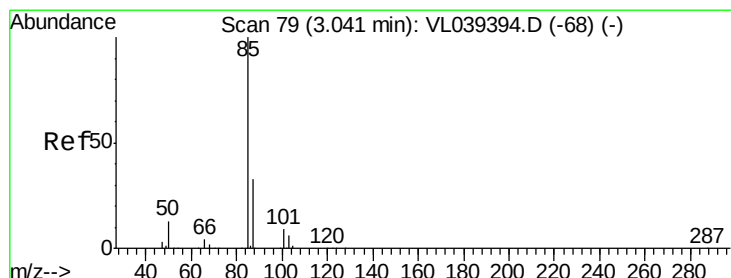
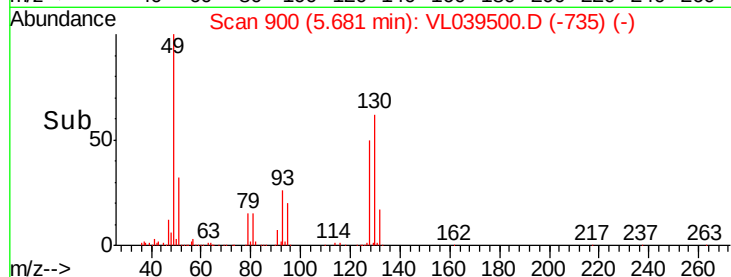
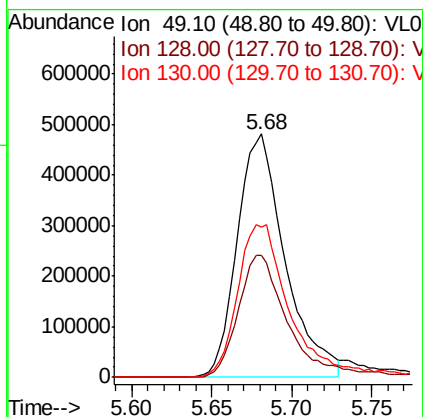
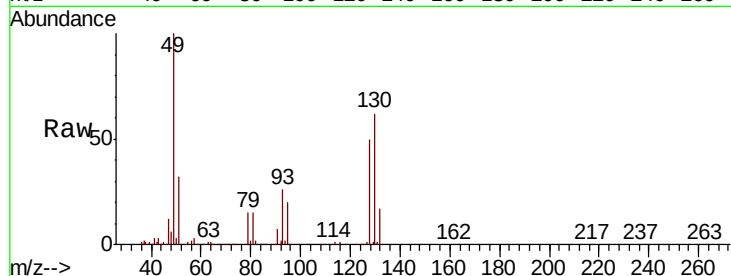
Quant Time: Jul 20 05:41:40 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
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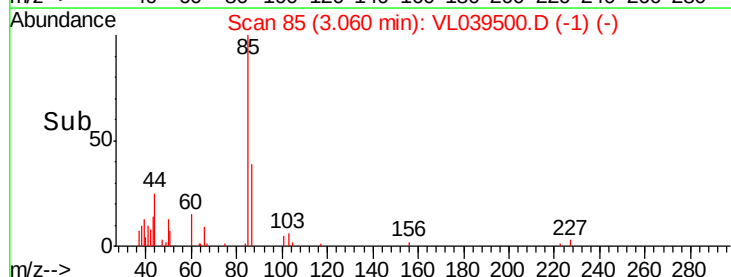
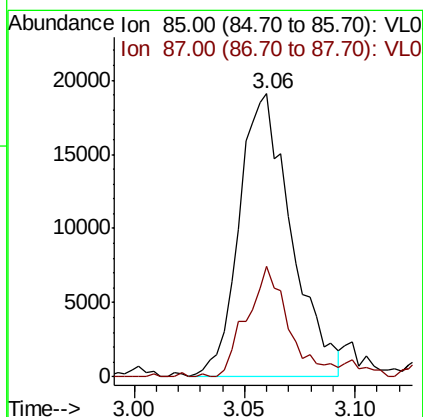
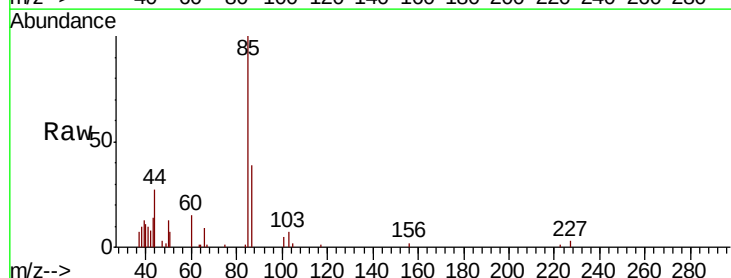
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 20 Jul 2022 3:50

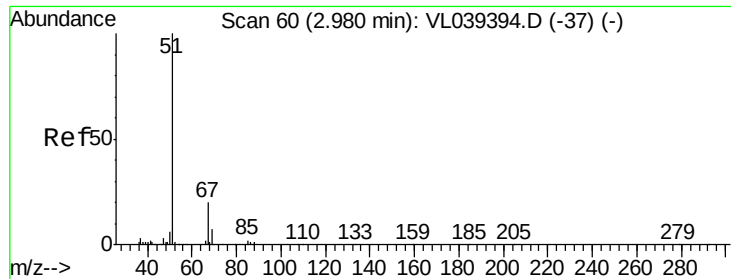
Tot Ion	49	Resp	985202
Ion Ratio	Lower	Upper	
49	100		
128	53.9	26.7	80.0
130	70.4	34.3	102.8



#2
 Dichlorodifluoromethane
 Concen: 0.221 ppbv
 RT: 3.06 min Scan# 85
 Delta R.T.: 0.02 min
 Lab File: VL039500.D
 Acq: 20 Jul 2022 3:50

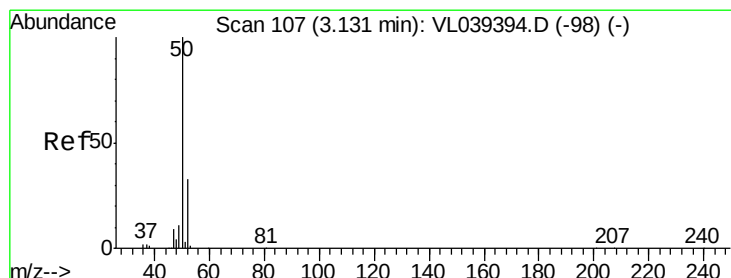
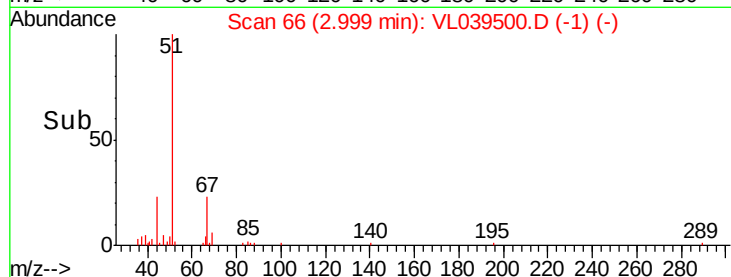
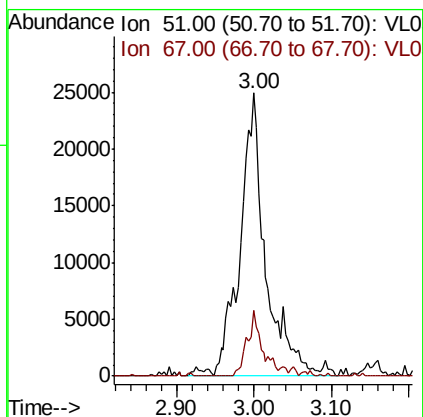
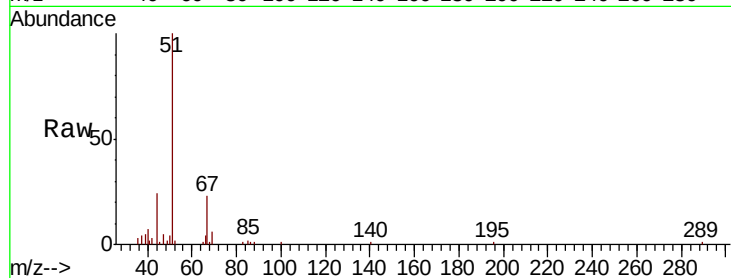
Tgt Ion	85	Resp	31415
Ion Ratio	Lower	Upper	
85	100		
87	39.2	26.7	40.1





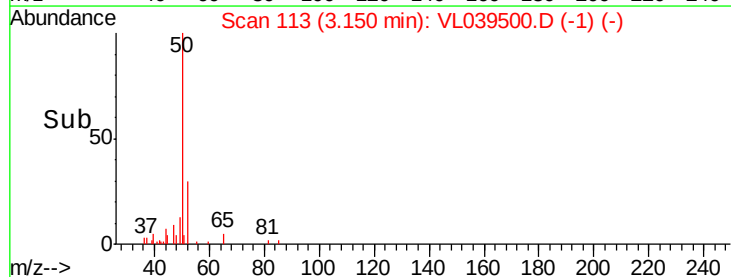
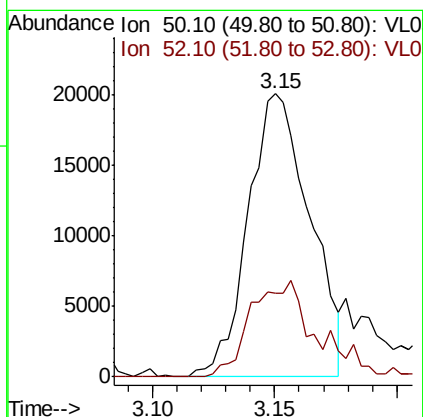
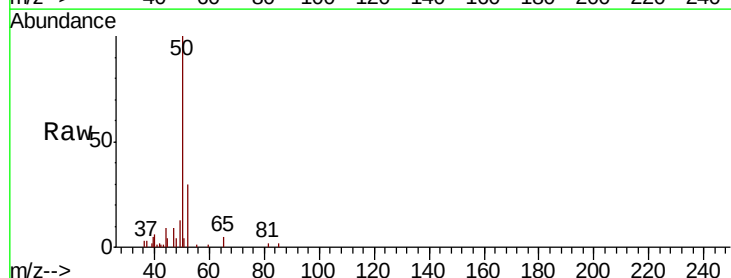
#3
 Chlorodifluoromethane
 Concen: 0.464 ppbv
 RT: 3.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Jul 2022 3:50

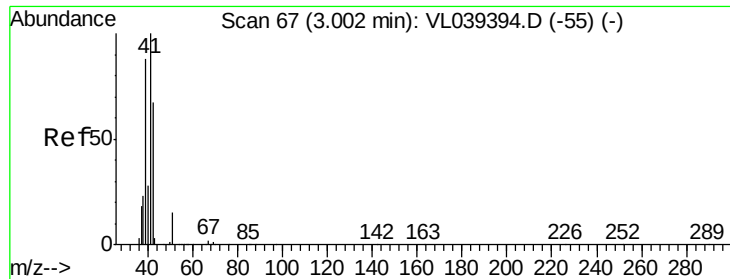
Tot Ion: 51 Resp: 57999
 Ion Ratio Lower Upper
 51 100
 67 15.3 15.7 23.5#



#4
 Chloromethane
 Concen: 0.516 ppbv
 RT: 3.15 min Scan# 113
 Delta R.T. 0.02 min
 Lab File: VL039500.D
 Acq: 20 Jul 2022 3:50

Tgt Ion: 50 Resp: 35251
 Ion Ratio Lower Upper
 50 100
 52 29.8 26.5 39.7





#9

Propene

Concen: 0.603 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

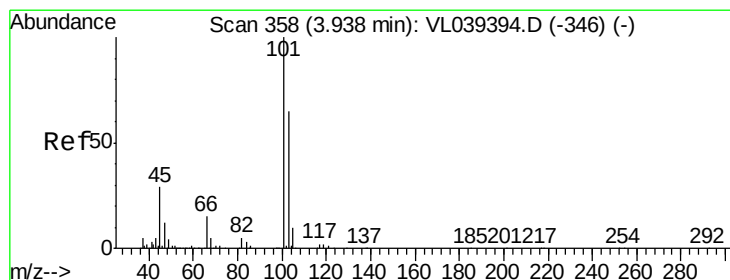
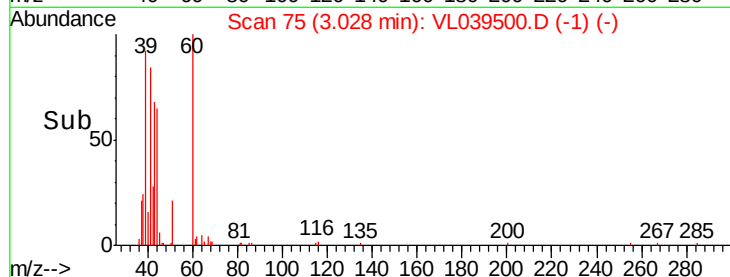
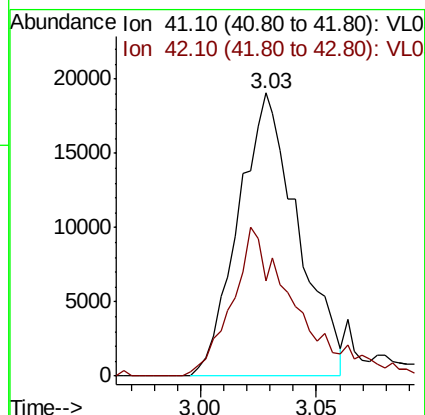
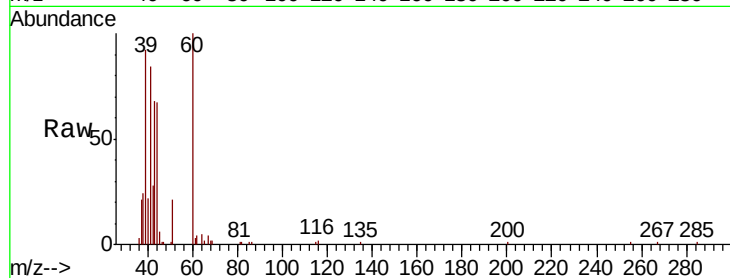
Acq: 20 Jul 2022 3:50

Tot Ion: 41 Resp: 34061

Ion Ratio Lower Upper

41 100

42 58.3 55.2 82.8



#11

Trichlorofluoromethane

Concen: 0.225 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL039500.D

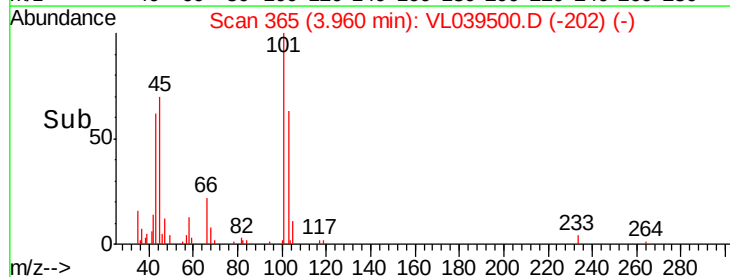
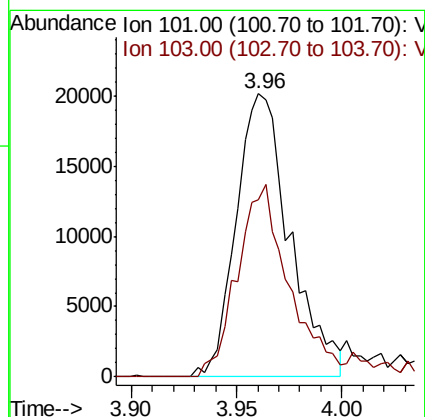
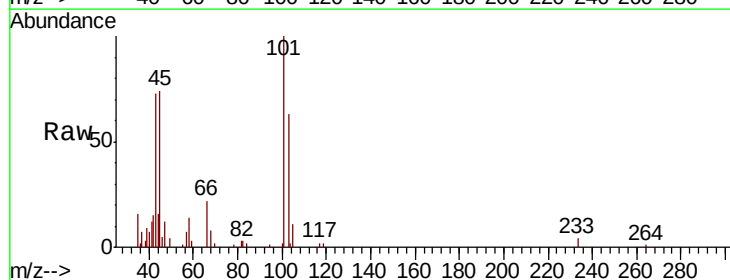
Acq: 20 Jul 2022 3:50

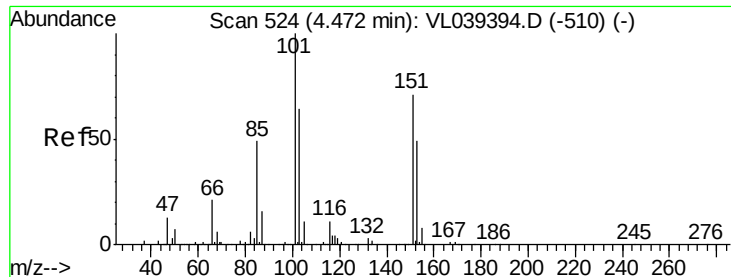
Tgt Ion: 101 Resp: 35677

Ion Ratio Lower Upper

101 100

103 62.8 51.8 77.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.064 ppbv

RT: 4.50 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

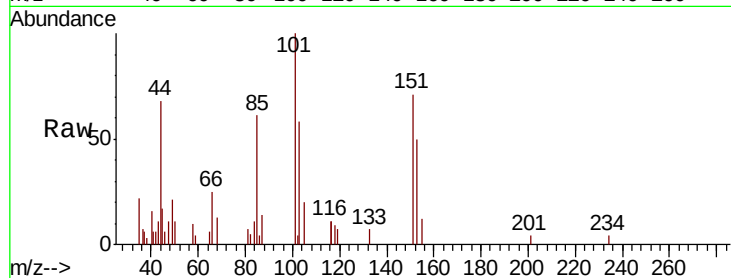
Acq: 20 Jul 2022 3:50

Tot Ion:101 Resp: 7611

Ion Ratio Lower Upper

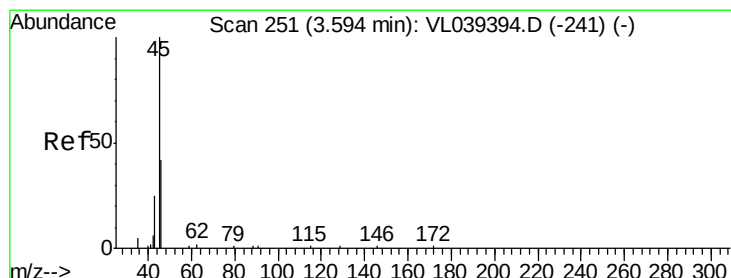
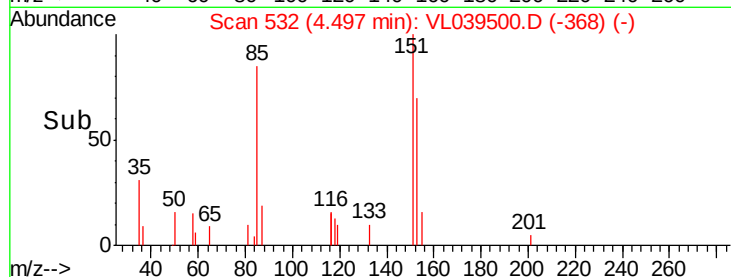
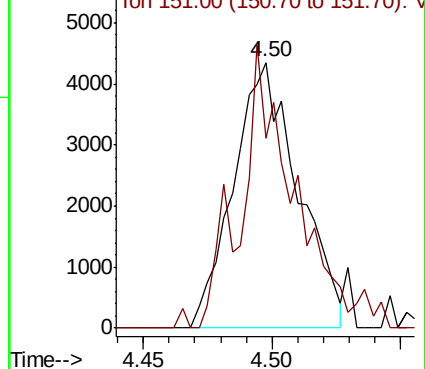
101 100

151 90.5 58.9 88.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 91.931 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL039500.D

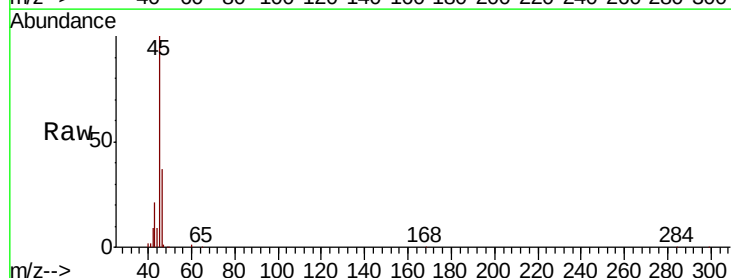
Acq: 20 Jul 2022 3:50

Tgt Ion: 45 Resp: 301066

Ion Ratio Lower Upper

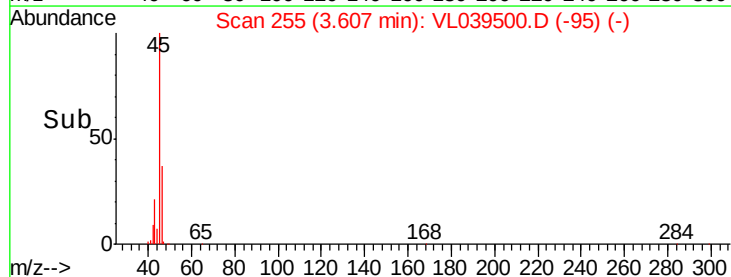
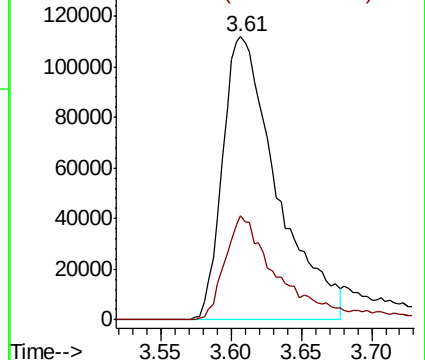
45 100

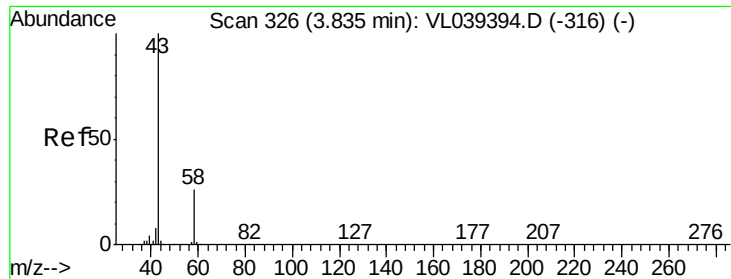
46 38.3 22.8 91.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 6.486 ppbv

RT: 3.85

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

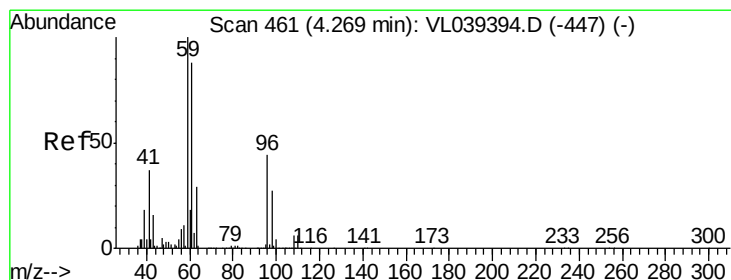
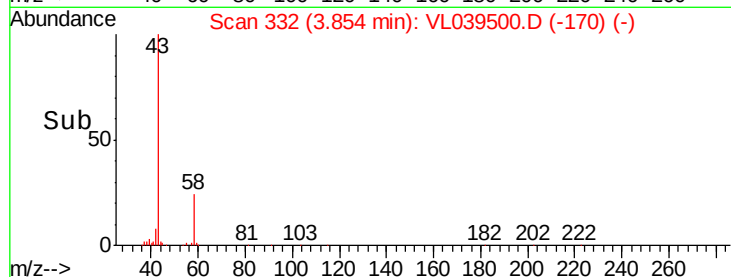
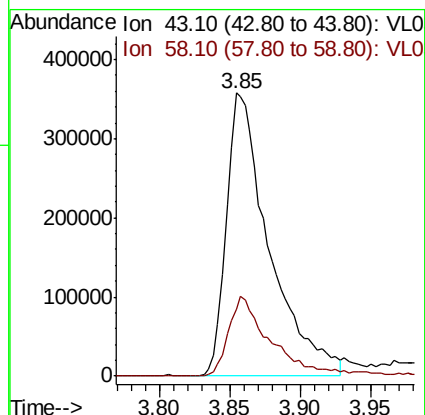
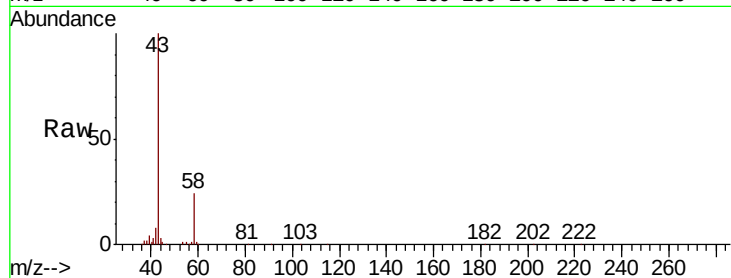
Acq: 20 Jul 2022 3:50

Tot Ion: 43 Resp: 756036

Ion Ratio Lower Upper

43 100

58 29.7 21.0 31.6



#17

tert-Butyl alcohol

Concen: 0.054 ppbv

RT: 4.31 min Scan# 474

Delta R.T. 0.04 min

Lab File: VL039500.D

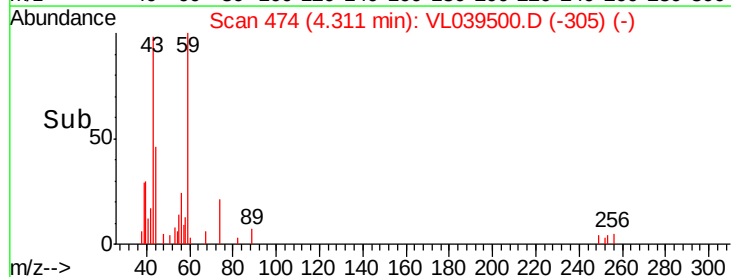
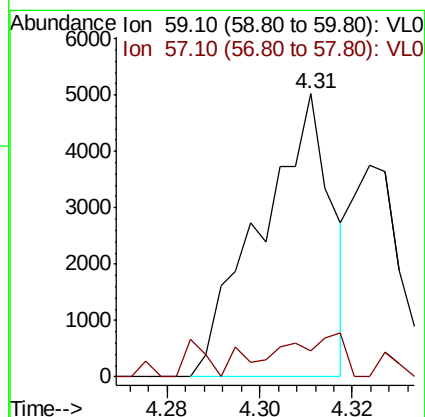
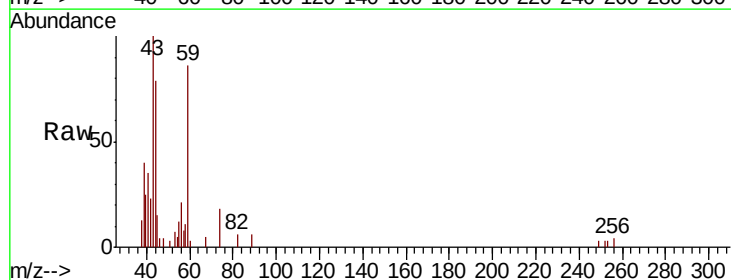
Acq: 20 Jul 2022 3:50

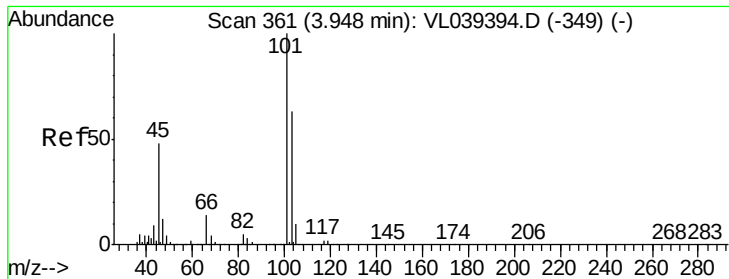
Tgt Ion: 59 Resp: 5320

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.597 ppbv

RT: 3.98

Delta R.T. MSVOA_L

Lab File:

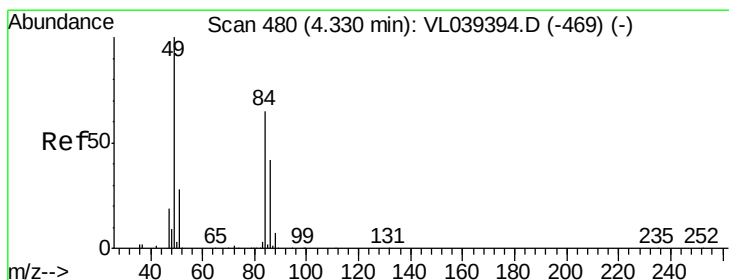
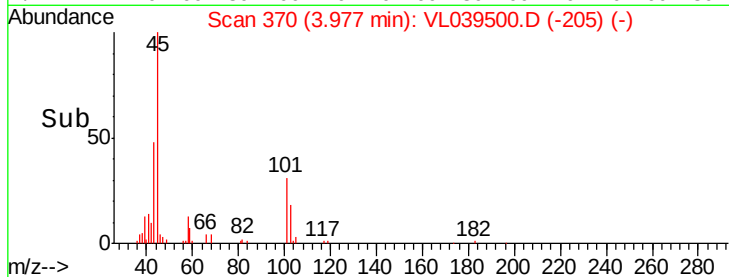
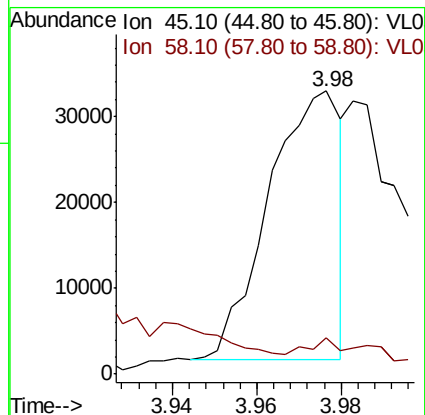
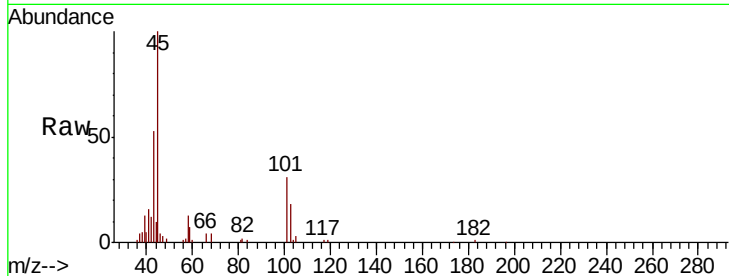
Acq: 20 Jul 2022 3:50

Tot Ion: 45 Resp: 37117

Ion Ratio Lower Upper

45 100

58 20.2 3.2 4.8#



#20

Methylene Chloride

Concen: 1.843 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.03 min

Lab File: VL039500.D

Acq: 20 Jul 2022 3:50

Tgt Ion: 84 Resp: 85605

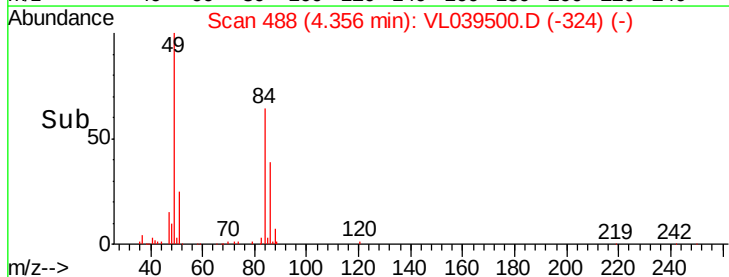
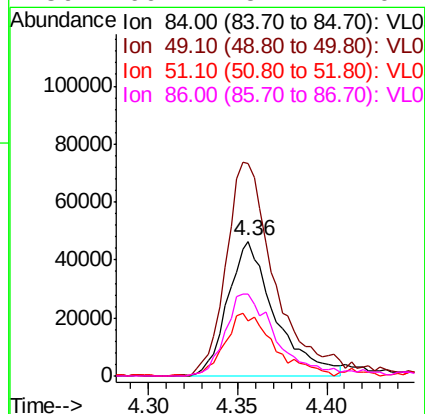
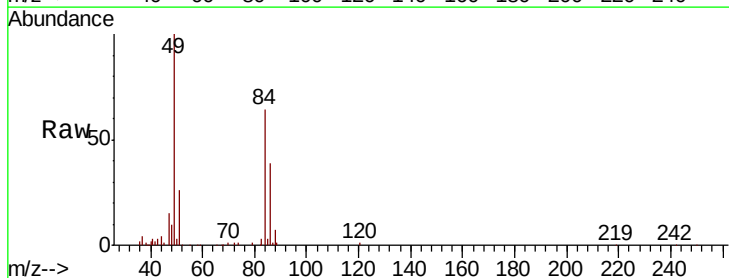
Ion Ratio Lower Upper

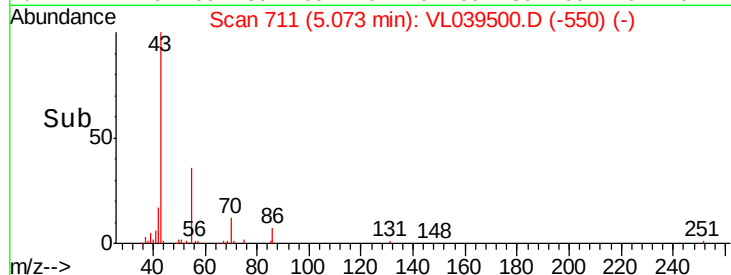
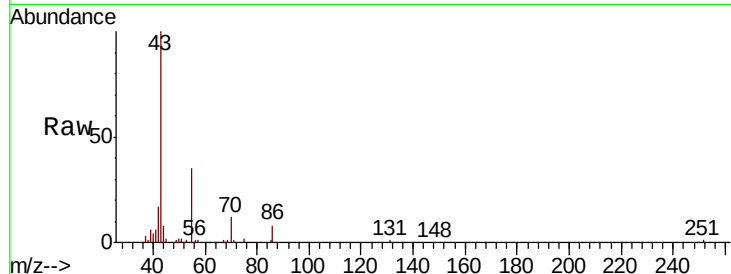
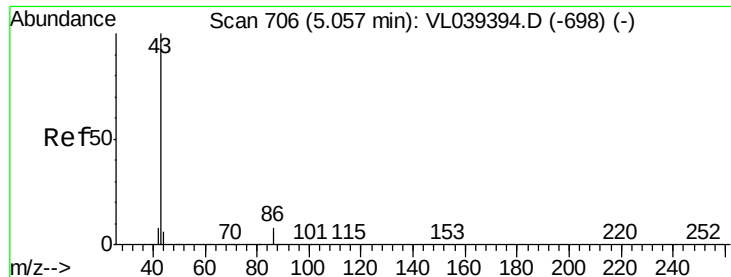
84 100

49 157.4 123.1 184.7

51 39.9 34.4 51.6

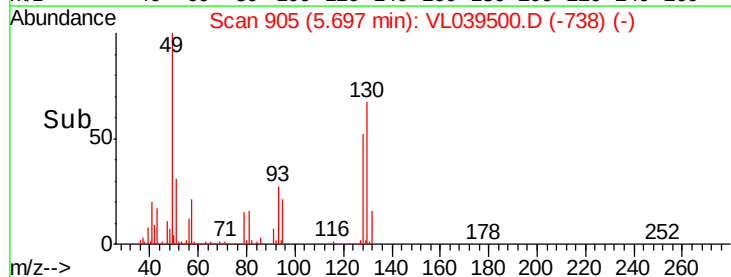
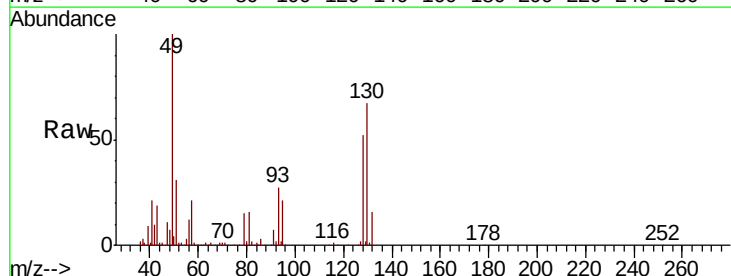
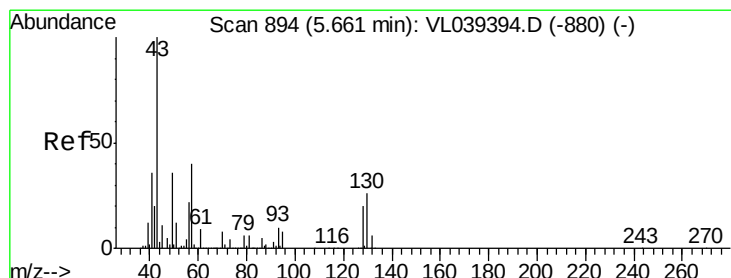
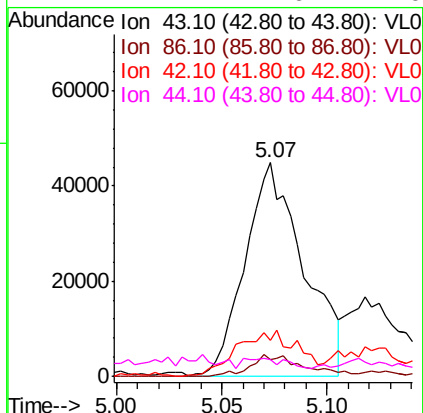
86 60.4 51.1 76.7





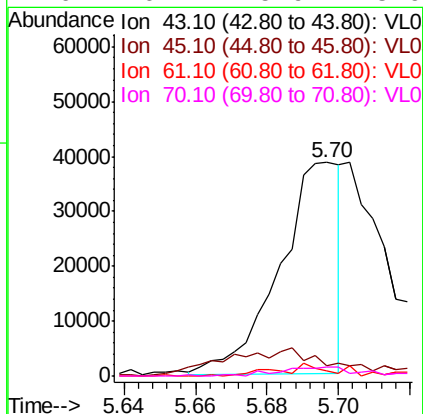
#23
 Vinyl Acetate
 Concen: 1.119 ppbv
 RT: 5.07
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Jul 2022 3:50

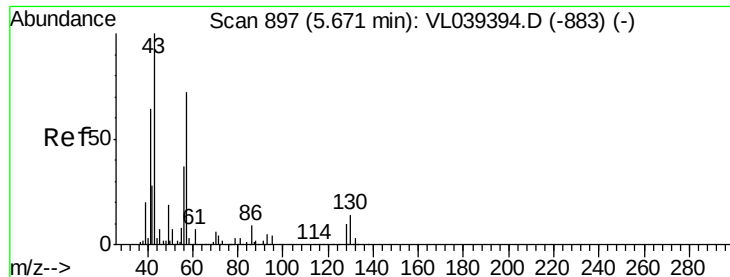
Tot Ion:	43	Resp:	87151
Ion	Ratio	Lower	Upper
43	100		
86	7.5	5.0	7.6
42	16.5	7.7	11.5#
44	2.4	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.189 ppbv
 RT: 5.70 min Scan# 905
 Delta R.T. 0.04 min
 Lab File: VL039500.D
 Acq: 20 Jul 2022 3:50

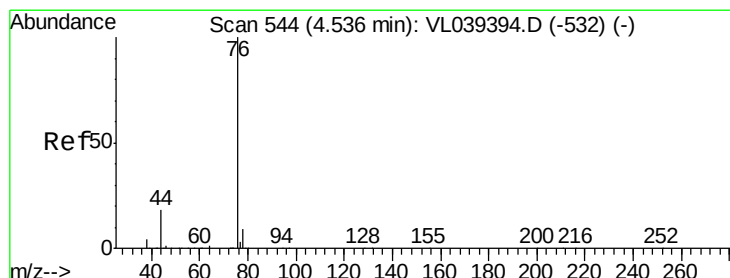
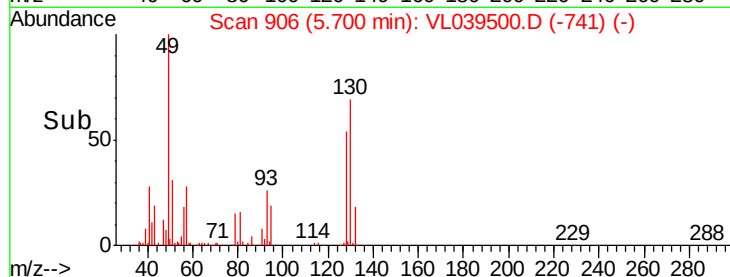
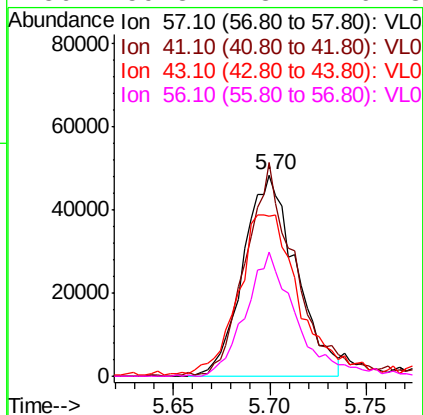
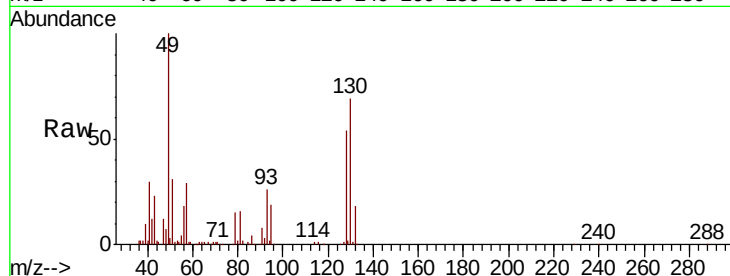
Tgt Ion:	43	Resp:	45200
Ion	Ratio	Lower	Upper
43	100		
45	26.3	8.2	12.4#
61	6.4	8.3	12.5#
70	6.4	5.9	8.9





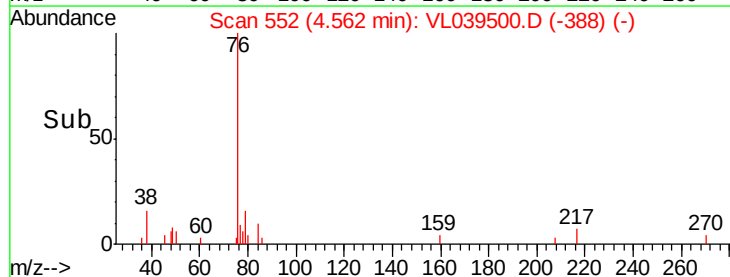
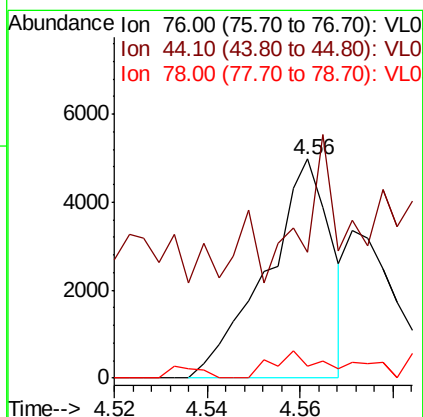
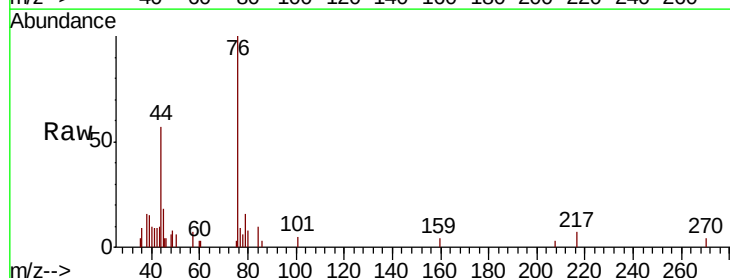
#26
Hexane
Concen: 0.953 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Jul 2022 3:50

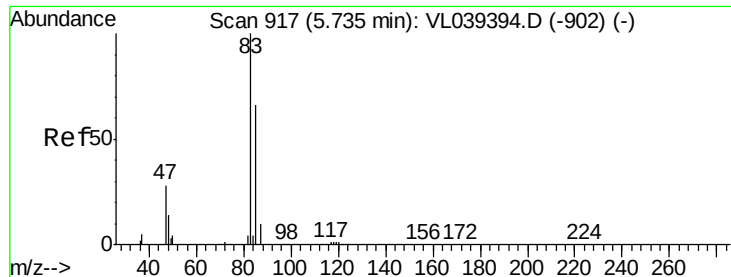
Tot Ion:	57	Resp:	91856
Ion	Ratio	Lower	Upper
57	100		
41	103.4	76.9	115.3
43	93.6	191.0	286.6#
56	59.3	43.2	64.8



#27
Carbon Disulfide
Concen: 0.041 ppbv
RT: 4.56 min Scan# 552
Delta R.T. 0.03 min
Lab File: VL039500.D
Acq: 20 Jul 2022 3:50

Tgt Ion:	76	Resp:	4802
Ion	Ratio	Lower	Upper
76	100		
44	93.5	14.6	21.8#
78	19.0	7.8	11.6#





#29

Chloroform

Concen: 0.030 ppbv

RT: 5.77 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

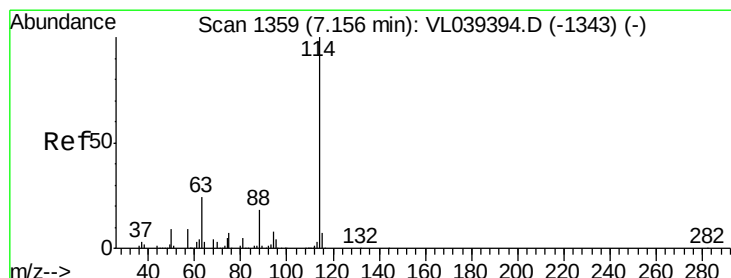
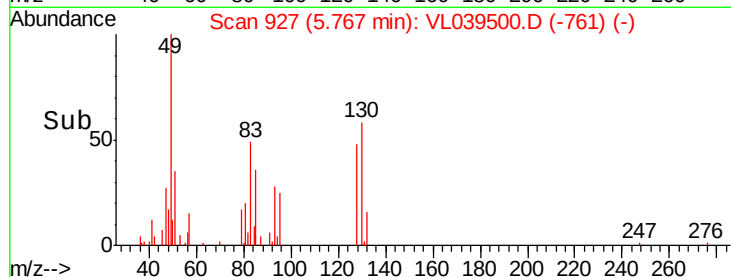
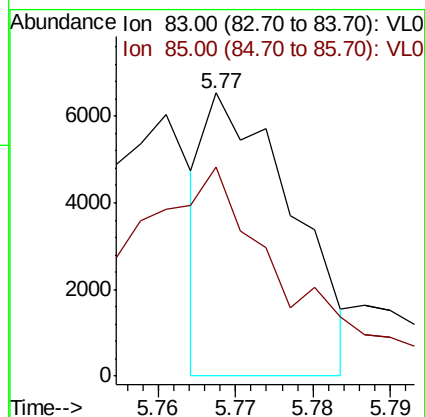
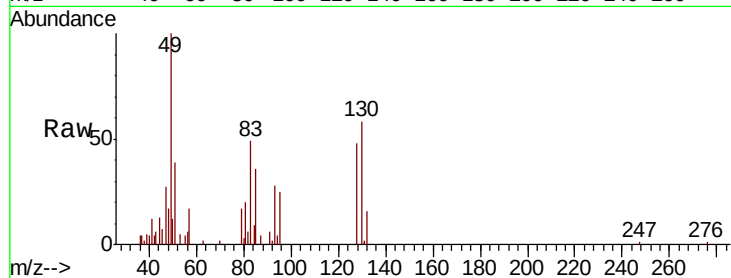
Acq: 20 Jul 2022 3:50

Tot Ion: 83 Resp: 5075

Ion Ratio Lower Upper

83 100

85 69.5 52.8 79.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.03 min

Lab File: VL039500.D

Acq: 20 Jul 2022 3:50

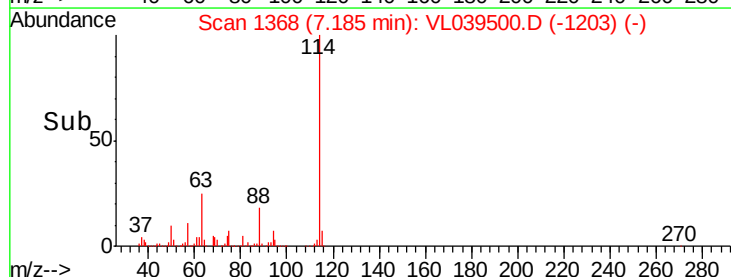
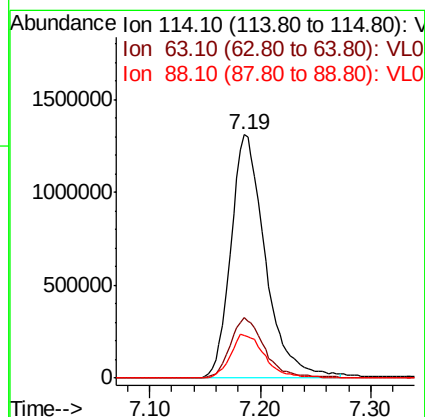
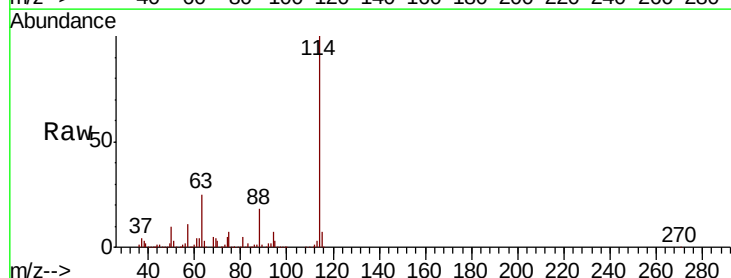
Tgt Ion: 114 Resp: 2846802

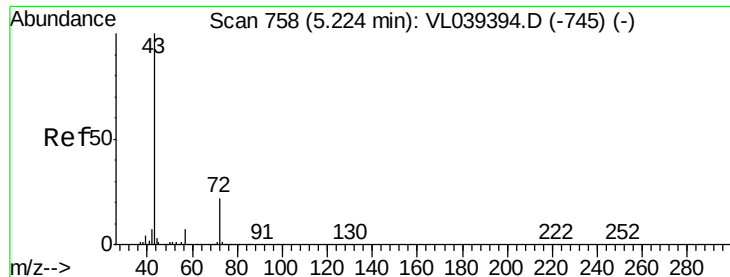
Ion Ratio Lower Upper

114 100

63 25.0 20.2 30.4

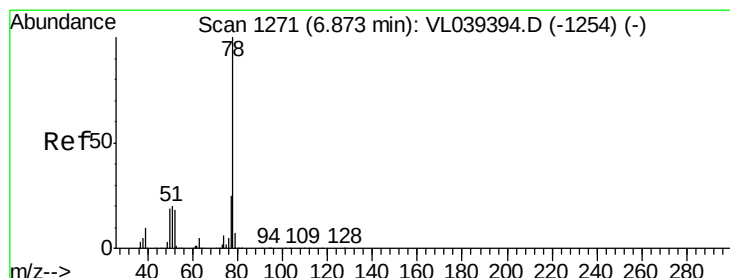
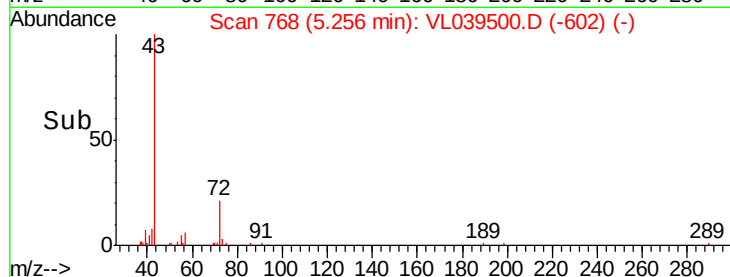
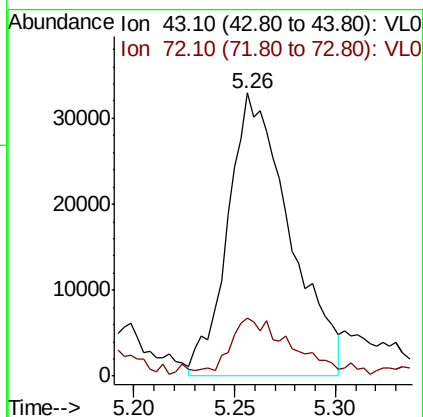
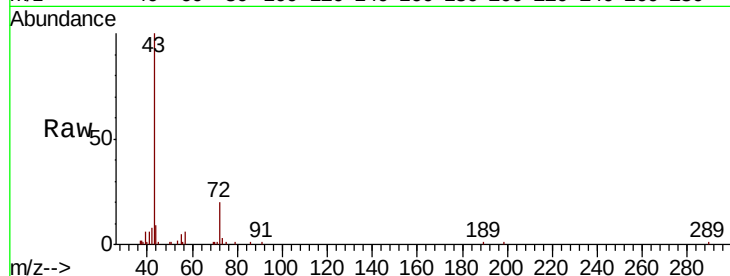
88 18.1 14.5 21.7





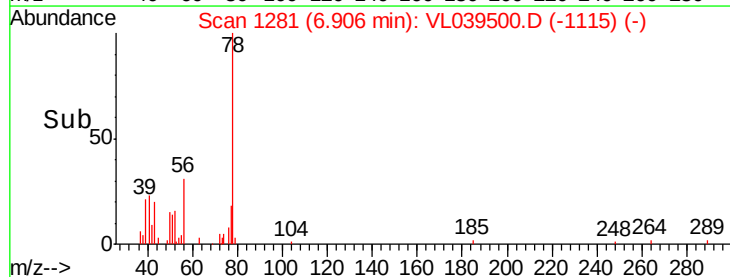
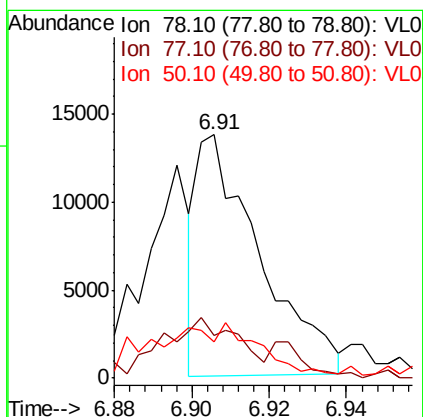
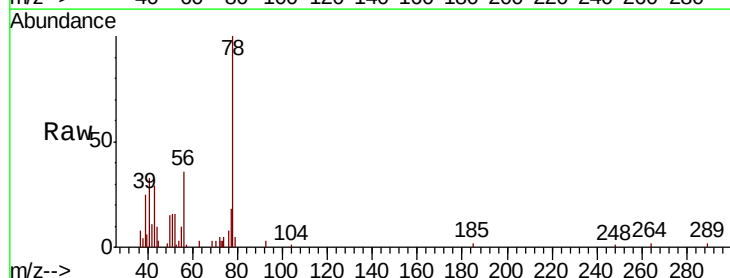
#34
 2-Butanone
 Concen: 0.492 ppbv
 RT: 5.26
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Jul 2022 3:50

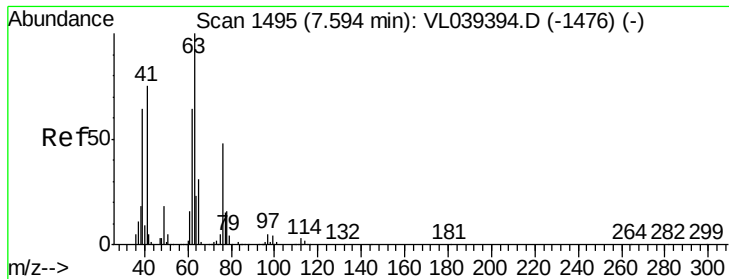
Tot Ion: 43 Resp: 70443
 Ion Ratio Lower Upper
 43 100
 72 21.3 17.9 26.9



#36
 Benzene
 Concen: 0.069 ppbv
 RT: 6.91 min Scan# 1281
 Delta R.T. 0.03 min
 Lab File: VL039500.D
 Acq: 20 Jul 2022 3:50

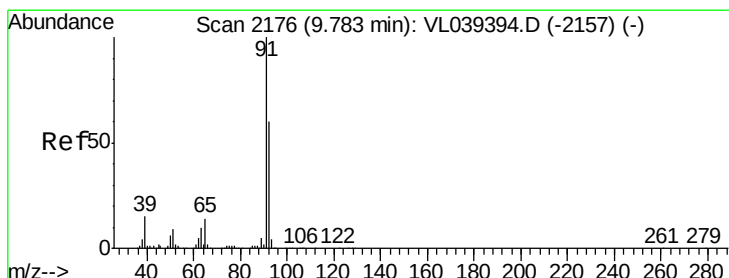
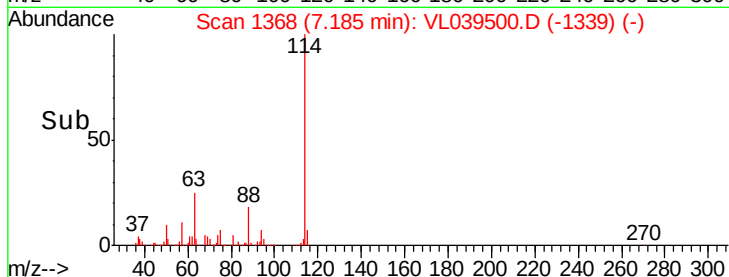
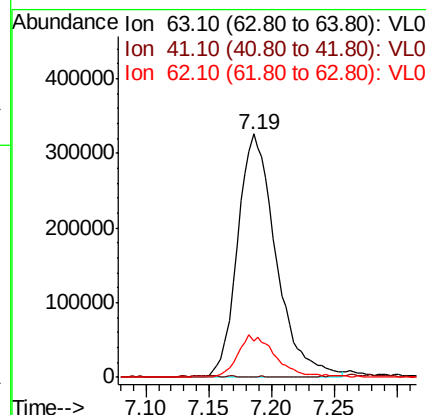
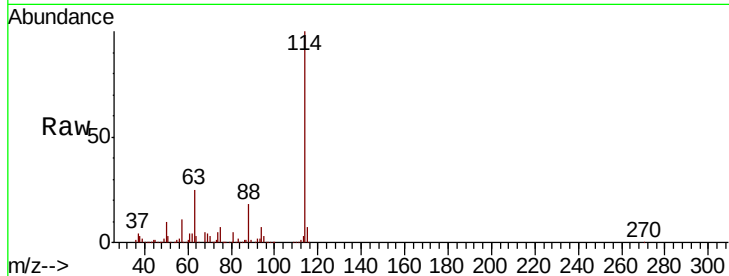
Tgt Ion: 78 Resp: 15303
 Ion Ratio Lower Upper
 78 100
 77 17.7 20.3 30.5#
 50 14.1 15.5 23.3#





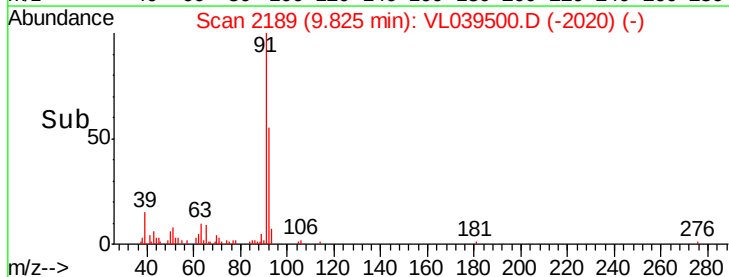
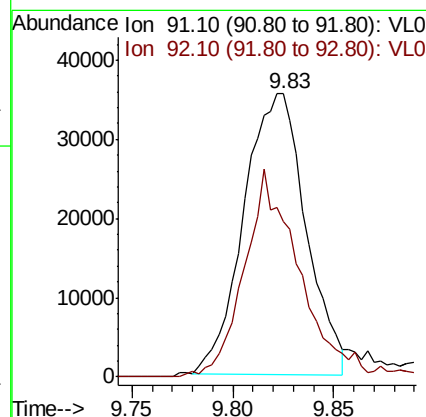
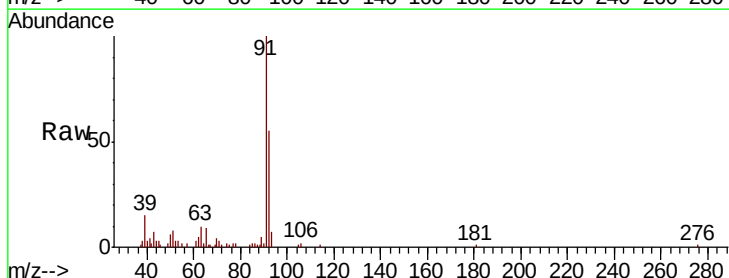
#39
 1,2-Dichloropropane
 Concen: 8.448 ppbv
 RT: 7.19
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Jul 2022 3:50

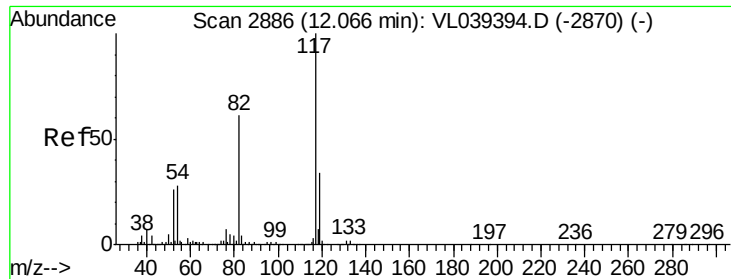
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	15.1	51.4	77.0#



#53
 Toluene
 Concen: 0.299 ppbv
 RT: 9.83 min Scan# 2189
 Delta R.T. 0.04 min
 Lab File: VL039500.D
 Acq: 20 Jul 2022 3:50

Tgt Ion	Ratio	Lower	Upper
91	100		
92	67.3	48.2	72.2

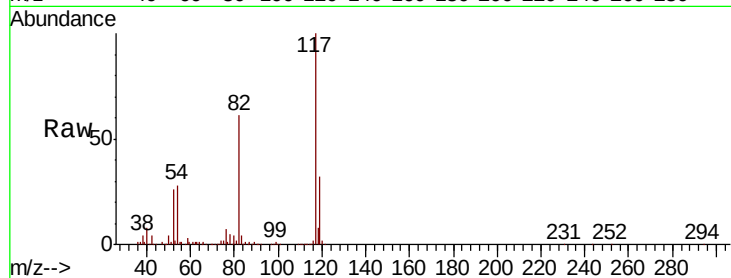




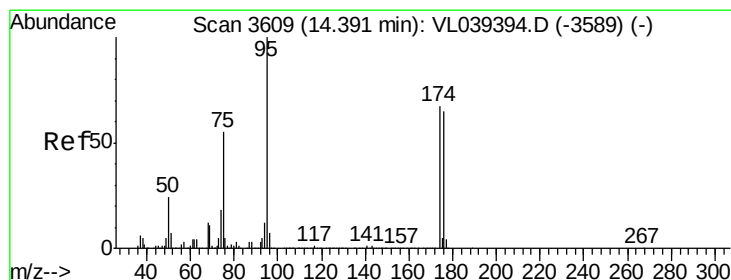
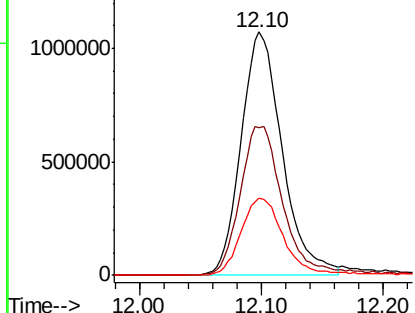
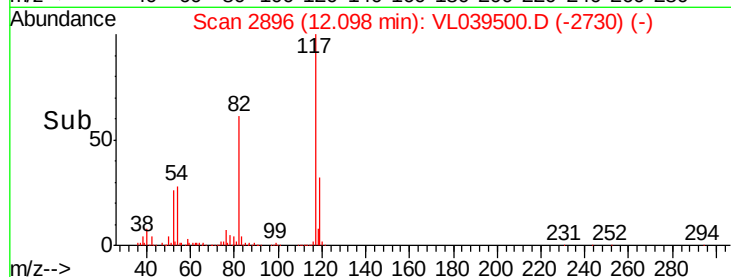
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 20 Jul 2022 3:50

Tot Ion: 117 Resp: 2497293

Ion	Ratio	Lower	Upper
117	100		
82	65.6	50.8	76.2
119	34.0	24.1	36.1



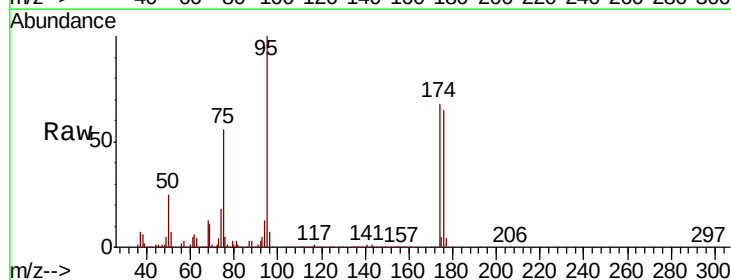
Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



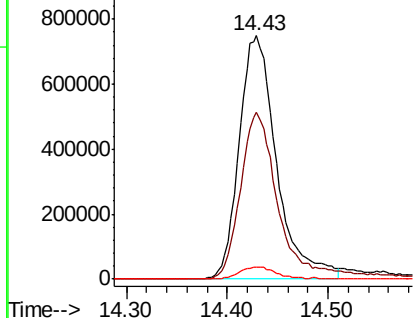
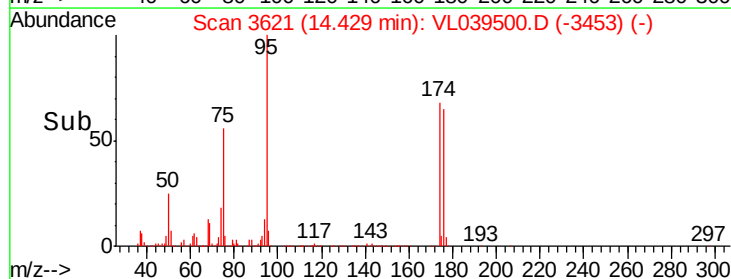
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.416 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T.: 0.04 min
 Lab File: VL039500.D
 Acq: 20 Jul 2022 3:50

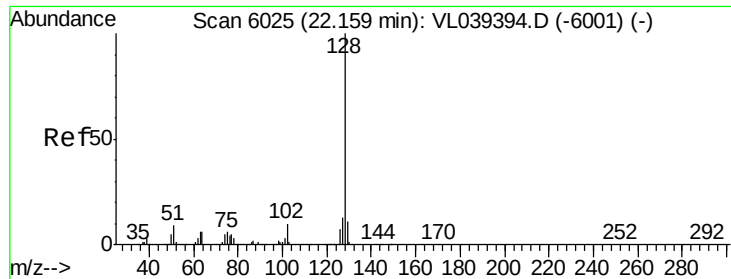
Tgt Ion: 95 Resp: 1929778

Ion	Ratio	Lower	Upper
95	100		
174	71.8	55.9	83.9
175	5.1	4.2	6.4



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





#79

Naphthalene

Concen: 0.067 ppbv

RT: 22.21

Delta R.T: MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Jul 2022 3:30

Tot Ion: 128 Resp: 14745

Ion Ratio Lower Upper

128 100

127 10.8 10.6 15.8

129 6.4 8.8 13.2#

