

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062722\
 Data File : VL039378.D
 Acq On : 28 Jun 2022 4:22
 Operator : SY/AP
 Sample : N3508-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-20220624

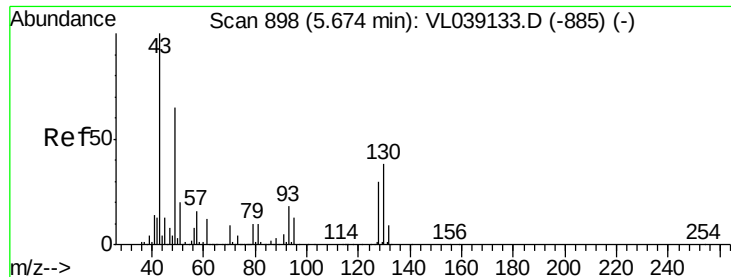
Quant Time: Jun 28 06:38:22 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	991338	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	2950838	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	2655228	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.40	95	2001995	9.12	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.20%	

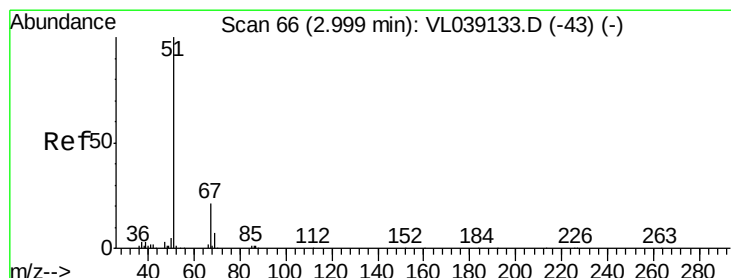
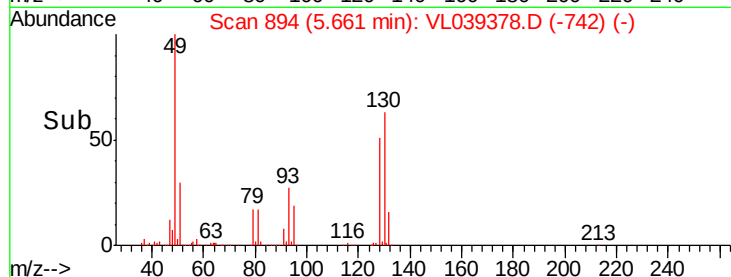
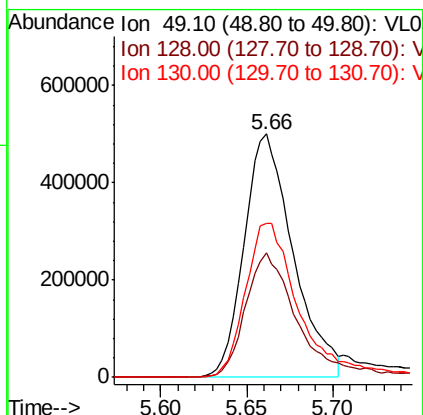
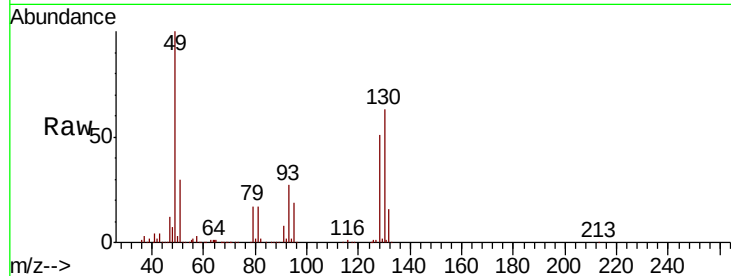
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	66077	0.524	ppbv #	90
4) Chloromethane	3.13	50	77101	1.190	ppbv	94
7) Chloroethane	3.56	64	870	0.041	ppbv #	45
9) Propene	3.01	41	2389	0.043	ppbv #	15
10) Heptane	8.11	43	4770	0.037	ppbv #	1
11) Trichlorofluoromethane	3.94	101	37797	0.240	ppbv #	79
12) 1,1,2-Trichlorotrifluoroet	4.48	101	7221	0.069	ppbv #	65
13) Ethanol	3.61	45	109089	36.370	ppbv #	100
15) Acetone	3.84	43	1729647	16.749	ppbv	99
16) 1,3-Butadiene	3.34	39	11179	0.201	ppbv #	28
19) Isopropyl Alcohol	3.97	45	123834	2.557	ppbv #	62
20) Methylene Chloride	4.34	84	206548	4.746	ppbv	91
23) Vinyl Acetate	5.06	43	152388	1.784	ppbv #	88
25) Ethyl Acetate	5.68	43	112874	0.485	ppbv #	87
26) Hexane	5.68	57	121569	1.189	ppbv #	44
29) Chloroform	5.75	83	56328	0.327	ppbv	90
34) 2-Butanone	5.24	43	95733	0.597	ppbv #	53
36) Benzene	6.89	78	36269	0.151	ppbv	96
39) 1,2-Dichloropropane	7.22	63	13260	0.139	ppbv #	31
41) Tetrahydrofuran	6.05	42	3170	0.033	ppbv #	36
44) 2,2,4-Trimethylpentane	7.86	57	21714	0.052	ppbv #	6
53) Toluene	9.80	91	130595	0.473	ppbv	99

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



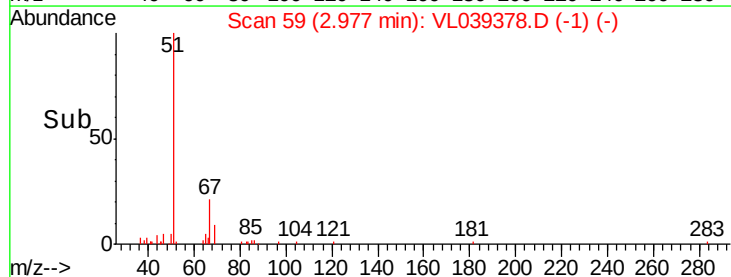
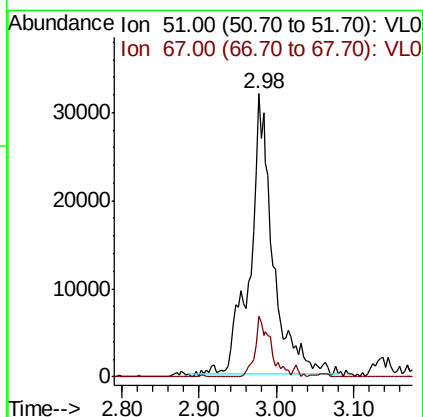
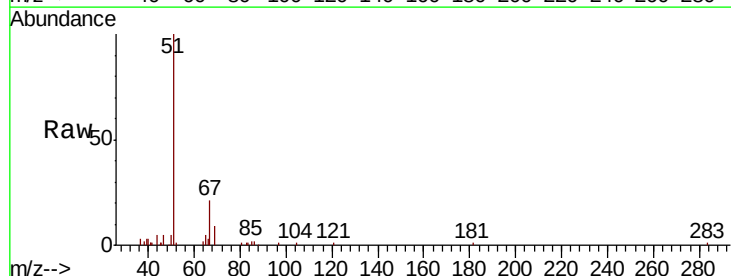
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Jun 2022 4:22

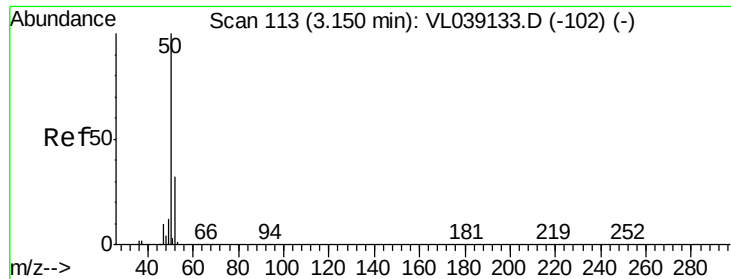
Tot Ion: 49 Resp: 991338
 Ion Ratio Lower Upper
 49 100
 128 56.5 24.7 74.1
 130 73.0 31.4 94.0



#3
 Chlorodifluoromethane
 Concen: 0.524 ppbv
 RT: 2.98 min Scan# 59
 Delta R.T. -0.02 min
 Lab File: VL039378.D
 Acq: 28 Jun 2022 4:22

Tgt Ion: 51 Resp: 66077
 Ion Ratio Lower Upper
 51 100
 67 15.6 16.2 24.4#





#4

Chloromethane

Concen: 1.190 ppbv

RT: 3.13 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

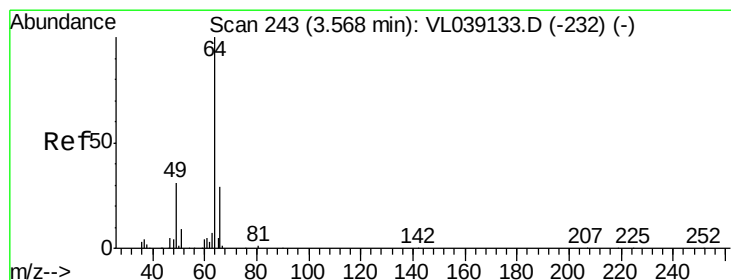
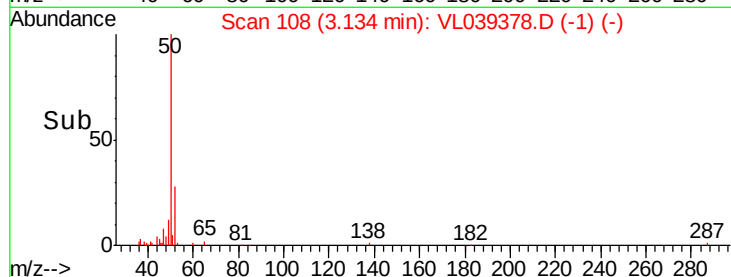
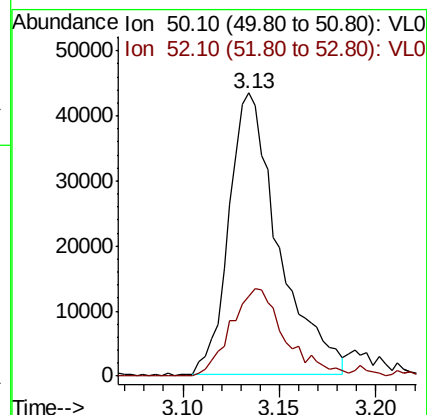
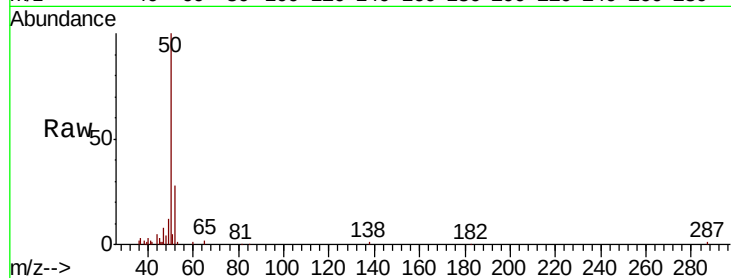
Acq: 28 Jun 2022 4:22 AA-1-20220624

Tot Ion: 50 Resp: 77101

Ion Ratio Lower Upper

50 100

52 29.0 25.9 38.9



#7

Chloroethane

Concen: 0.041 ppbv

RT: 3.56 min Scan# 242

Delta R.T. -0.00 min

Lab File: VL039378.D

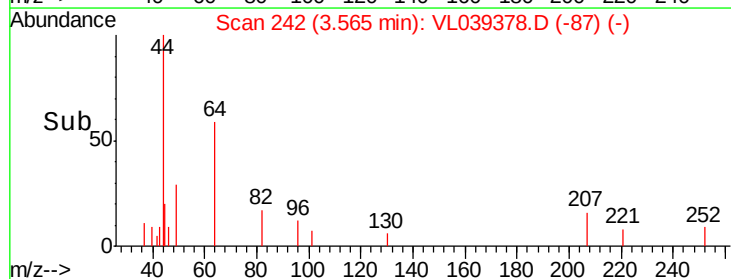
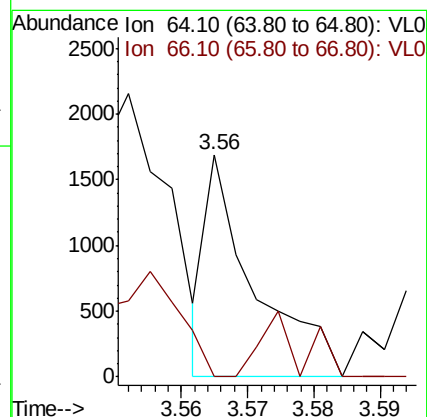
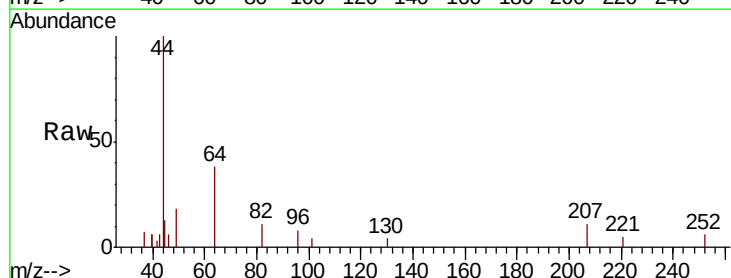
Acq: 28 Jun 2022 4:22

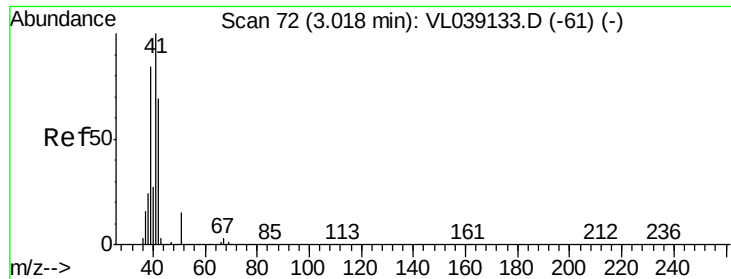
Tgt Ion: 64 Resp: 870

Ion Ratio Lower Upper

64 100

66 0.0 23.6 35.4#





#9

Propene

Concen: 0.043 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

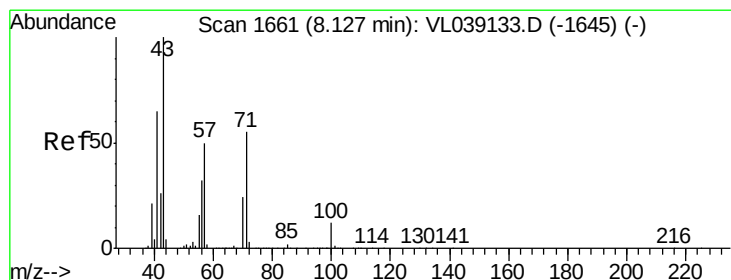
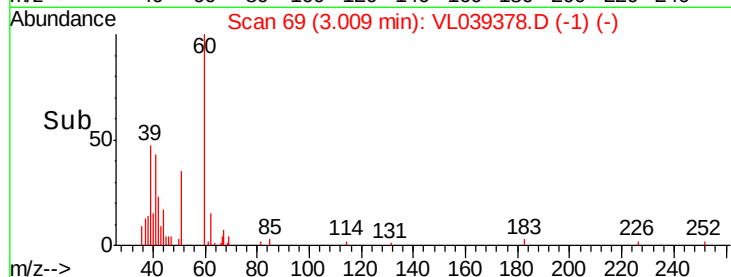
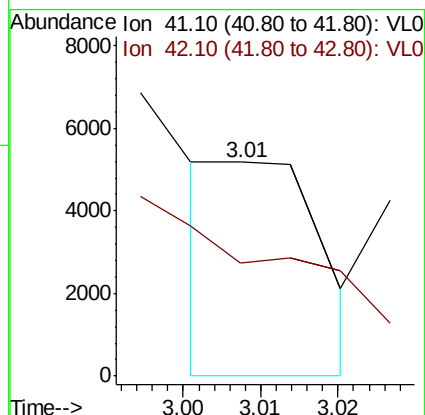
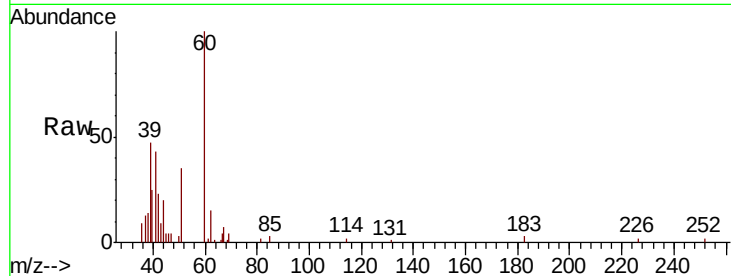
Acq: 28 Jun 2022 4:22

Tot Ion: 41 Resp: 2389

Ion Ratio Lower Upper

41 100

42 0.0 55.4 83.2#



#10

Heptane

Concen: 0.037 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.02 min

Lab File: VL039378.D

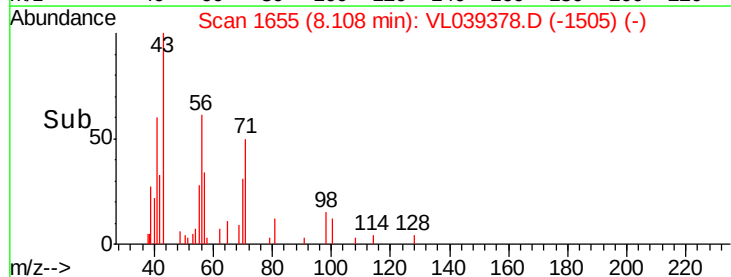
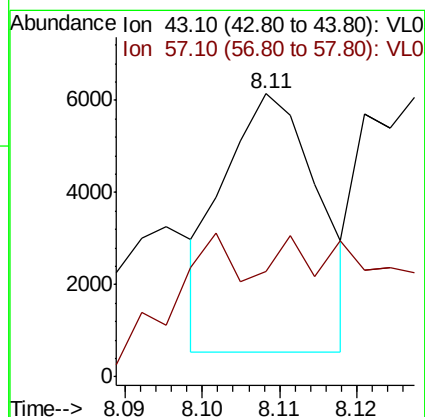
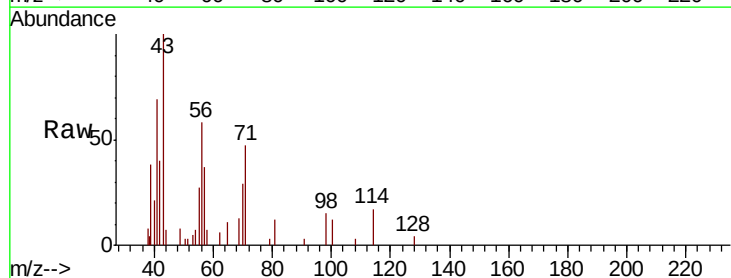
Acq: 28 Jun 2022 4:22

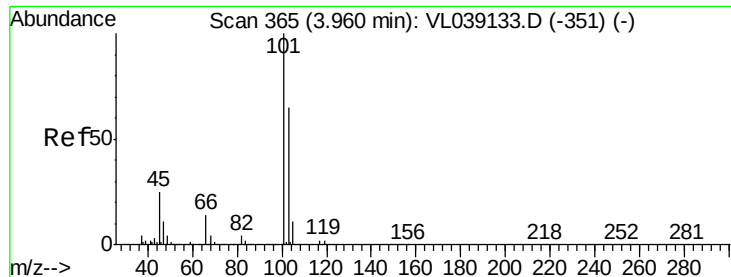
Tgt Ion: 43 Resp: 4770

Ion Ratio Lower Upper

43 100

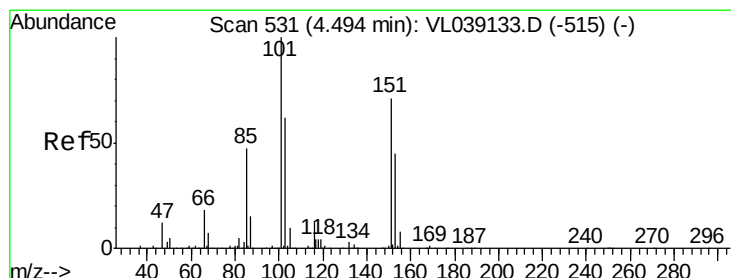
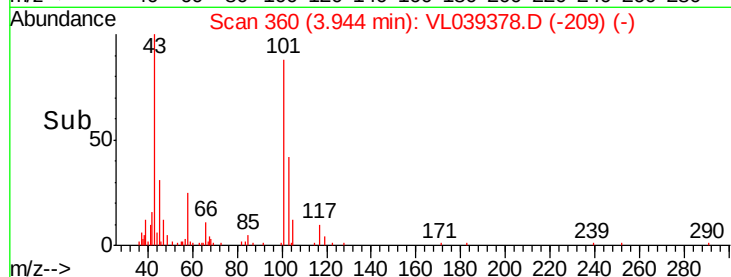
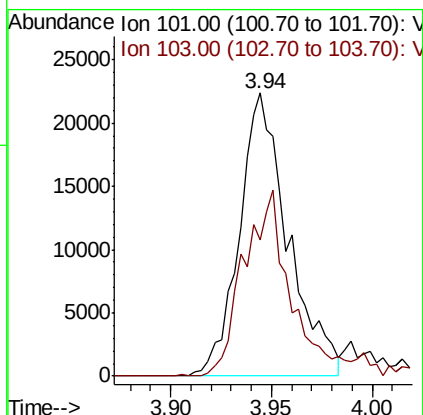
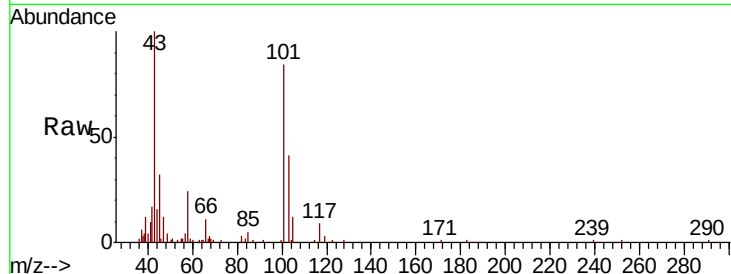
57 160.3 41.4 62.2#





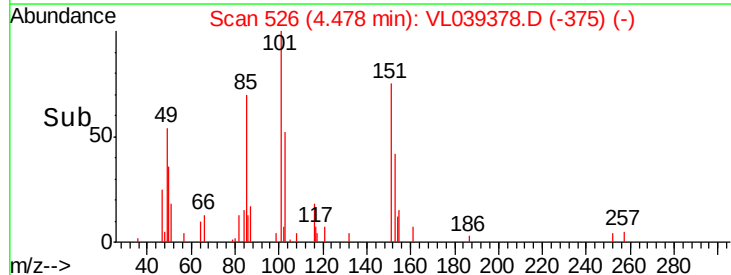
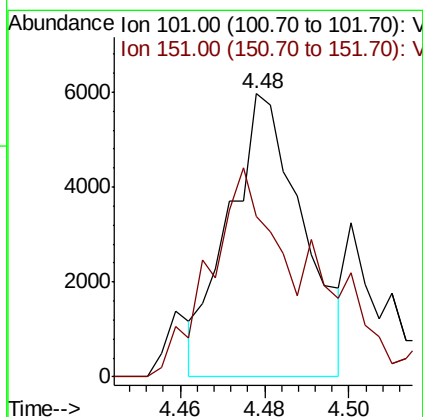
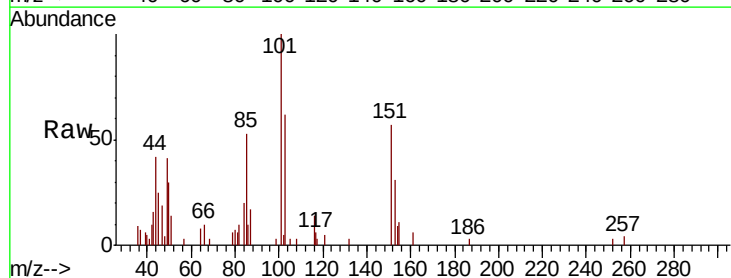
#11
 Trichlorofluoromethane
 Concen: 0.240 ppbv
 RT: 3.94
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 28 Jun 2022 4:22

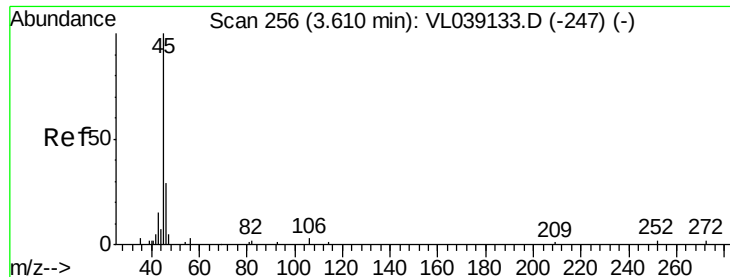
Tot Ion:101 Resp: 37797
 Ion Ratio Lower Upper
 101 100
 103 48.3 51.7 77.5#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.069 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.02 min
 Lab File: VL039378.D
 Acq: 28 Jun 2022 4:22

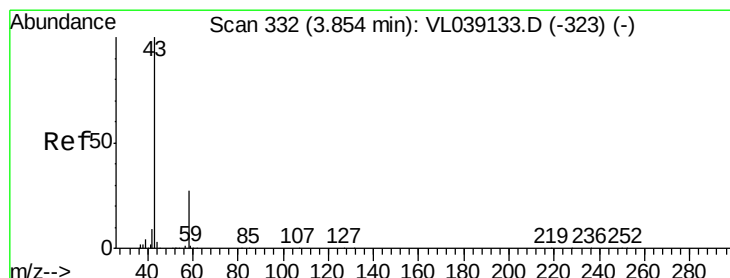
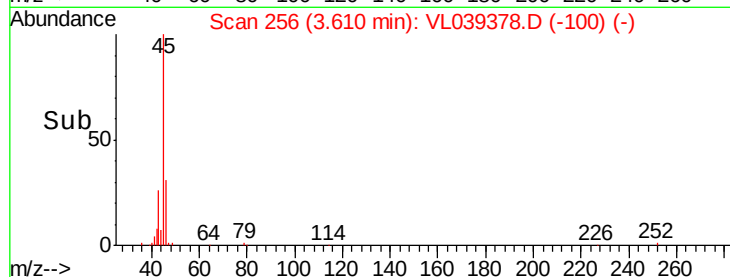
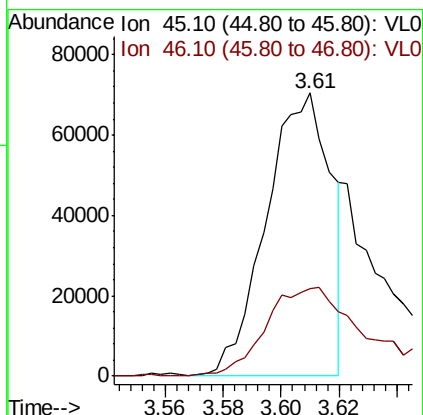
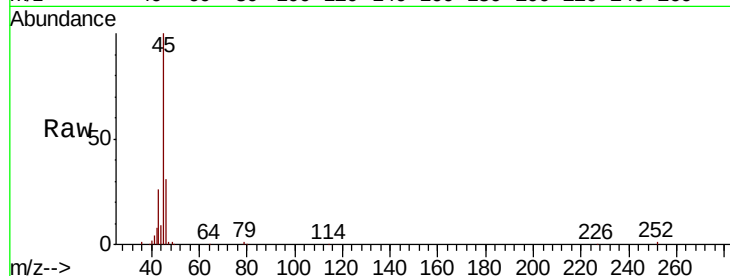
Tgt Ion:101 Resp: 7221
 Ion Ratio Lower Upper
 101 100
 151 103.9 59.4 89.0#





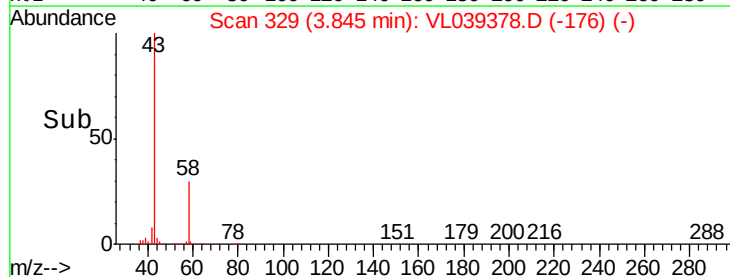
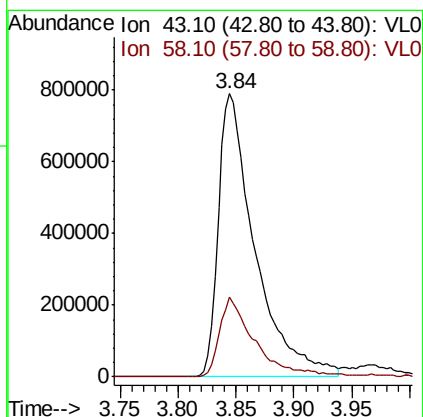
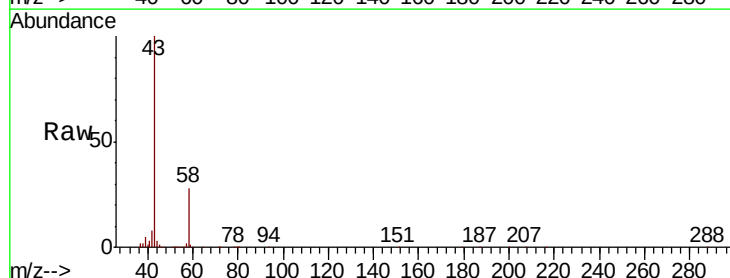
#13
Ethanol
Concen: 36.370 ppbv
RT: 3.61
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Jun 2022 4:22

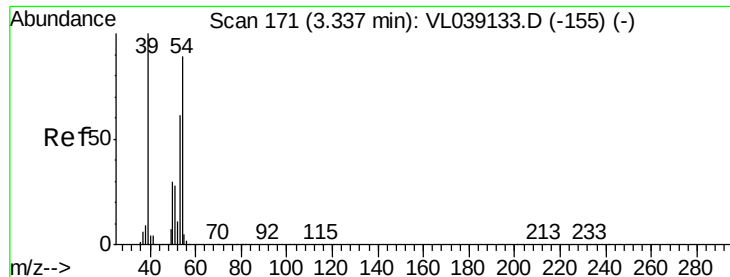
Tot Ion: 45 Resp: 109089
Ion Ratio Lower Upper
45 100
46 57.1 0.0 0.0#



#15
Acetone
Concen: 16.749 ppbv
RT: 3.84 min Scan# 329
Delta R.T.: -0.01 min
Lab File: VL039378.D
Acq: 28 Jun 2022 4:22

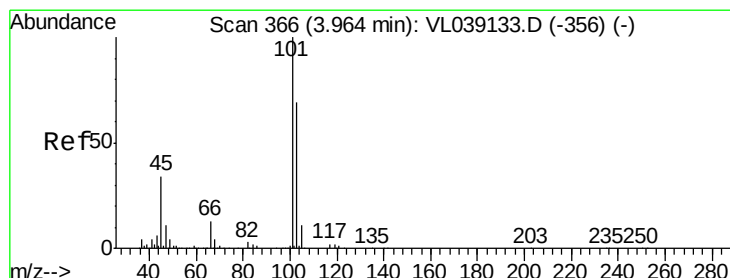
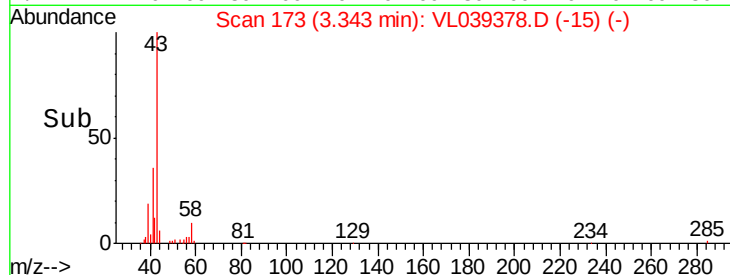
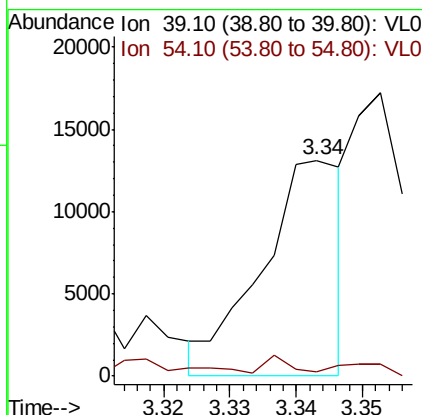
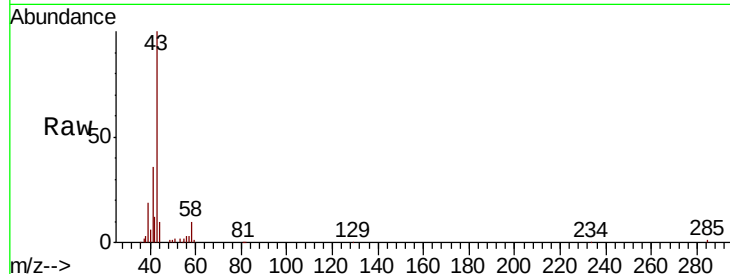
Tgt Ion: 43 Resp: 1729647
Ion Ratio Lower Upper
43 100
58 27.5 22.5 33.7





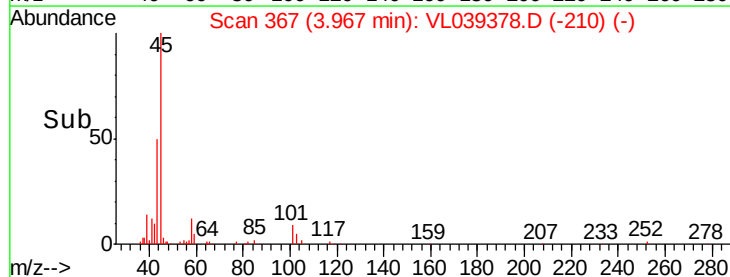
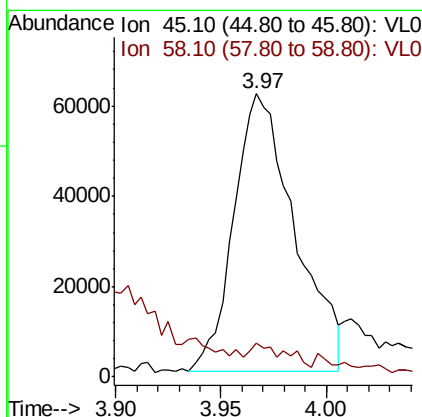
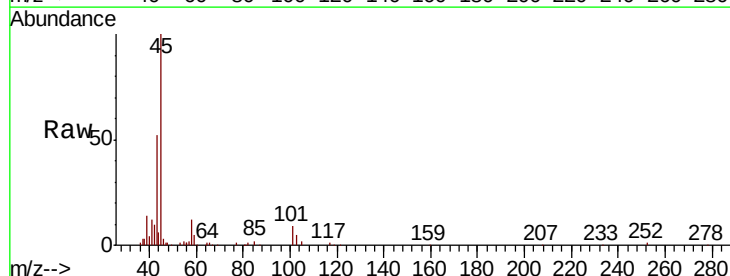
#16
 1,3-Butadiene
 Concen: 0.201 ppbv
 RT: 3.34
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Jun 2022 4:22

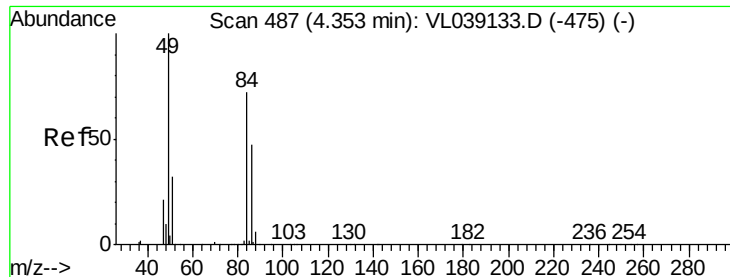
Tot Ion: 39 Resp: 11179
 Ion Ratio Lower Upper
 39 100
 54 17.6 65.8 98.6#



#19
 Isopropyl Alcohol
 Concen: 2.557 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.00 min
 Lab File: VL039378.D
 Acq: 28 Jun 2022 4:22

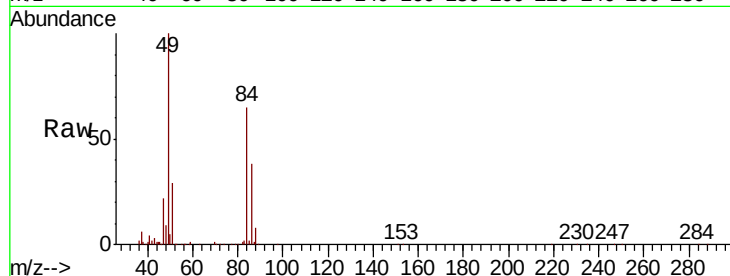
Tgt Ion: 45 Resp: 123834
 Ion Ratio Lower Upper
 45 100
 58 15.3 1.8 2.8#



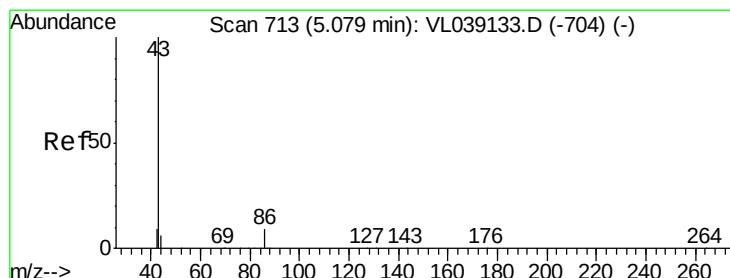
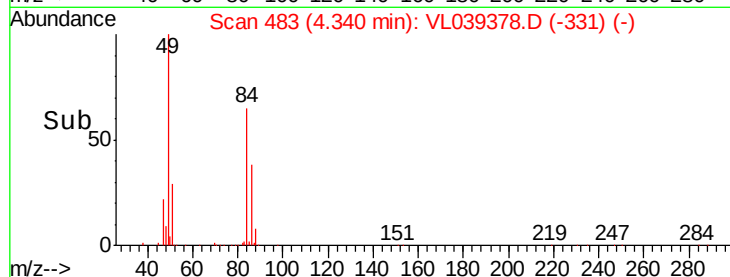
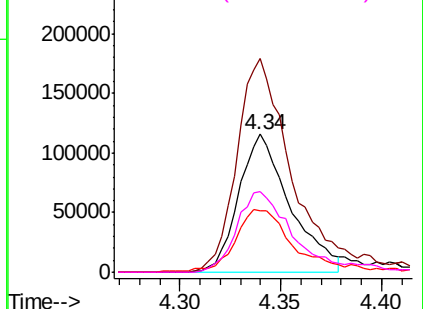


#20
Methvlene Chloride
Concen: 4.746 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jun 2022 4:22

Tot Ion:	84	Resp:	206548
Ion	Ratio	Lower	Upper
84	100		
49	154.2	111.1	166.7
51	43.8	35.3	52.9
86	58.8	51.9	77.9

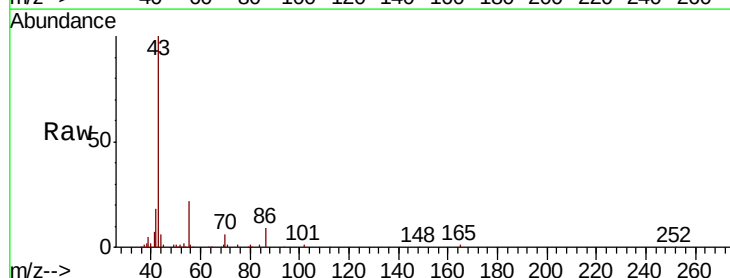


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

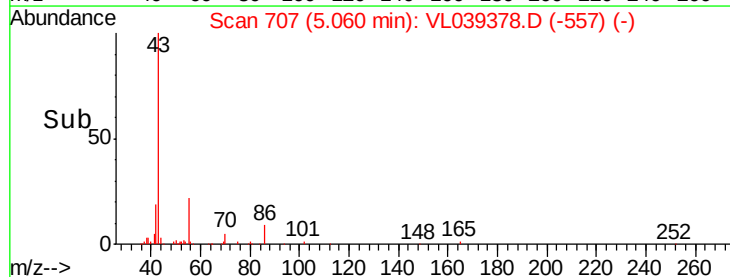
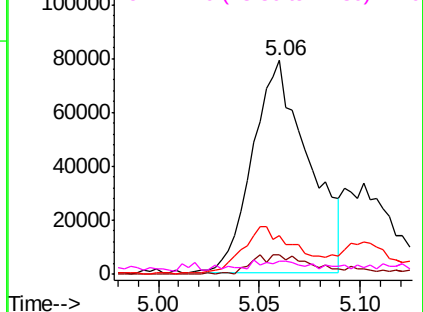


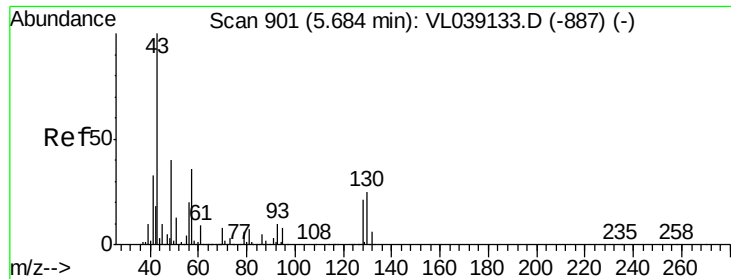
#23
Vinyl Acetate
Concen: 1.784 ppbv
RT: 5.06 min Scan# 707
Delta R.T. -0.02 min
Lab File: VL039378.D
Acq: 28 Jun 2022 4:22

Tgt Ion:	43	Resp:	152388
Ion	Ratio	Lower	Upper
43	100		
86	9.1	6.0	9.0#
42	17.5	8.2	12.4#
44	3.2	4.3	6.5#



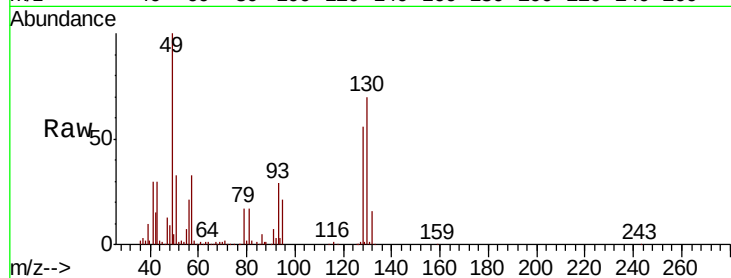
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





#25
Ethyl Acetate
Concen: 0.485 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 28 Jun 2022 4:22

Tot Ion:	43	Resp:	112874
Ion	Ratio	Lower	Upper
43	100		
45	5.6	8.2	12.2#
61	3.9	8.4	12.6#
70	4.4	5.6	8.4#



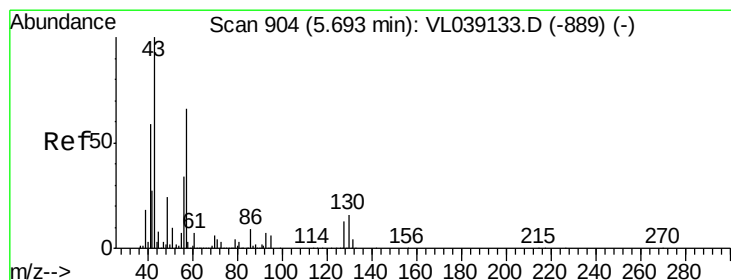
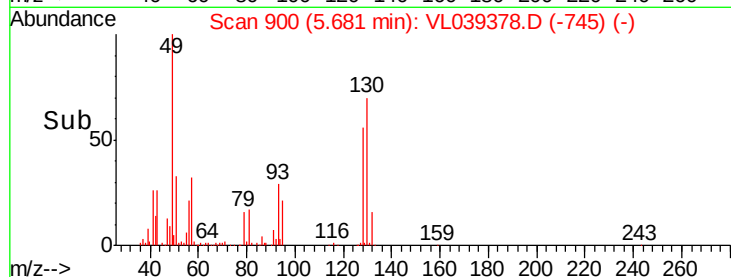
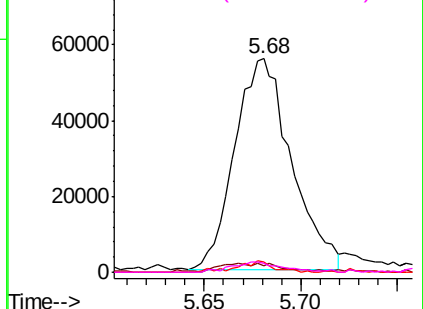
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

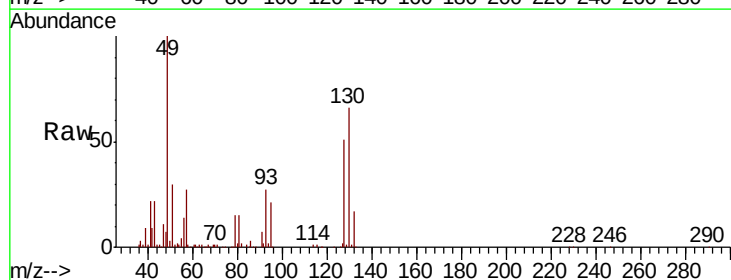
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 1.189 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL039378.D
Acq: 28 Jun 2022 4:22

Tgt Ion:	57	Resp:	121569
Ion	Ratio	Lower	Upper
57	100		
41	103.3	72.4	108.6
43	98.2	187.0	280.6#
56	62.5	41.8	62.6



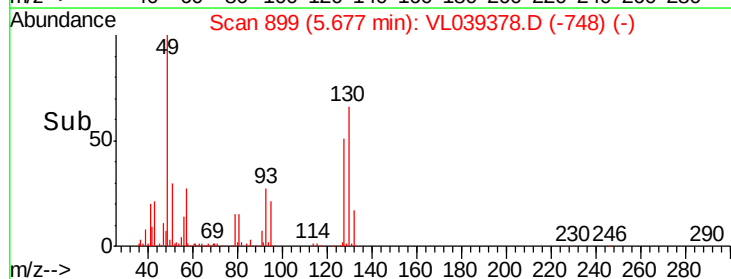
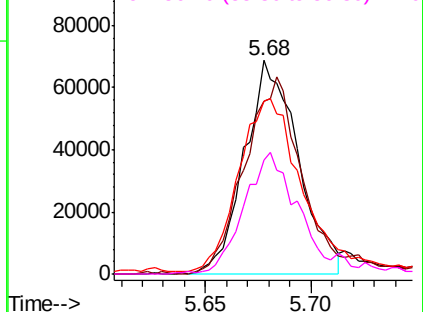
Abundance

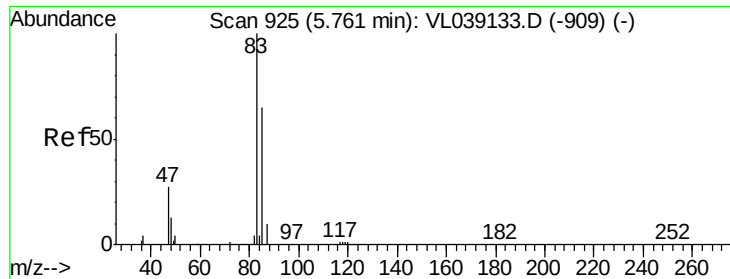
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

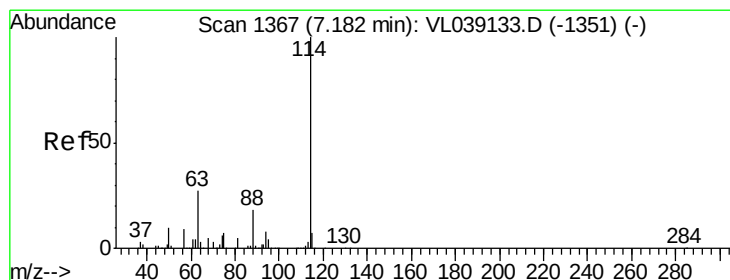
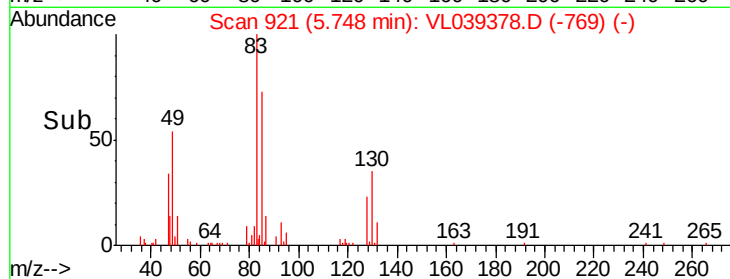
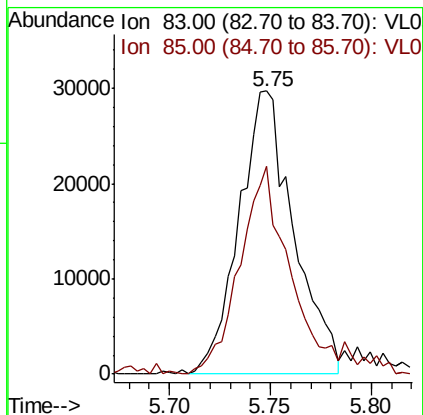
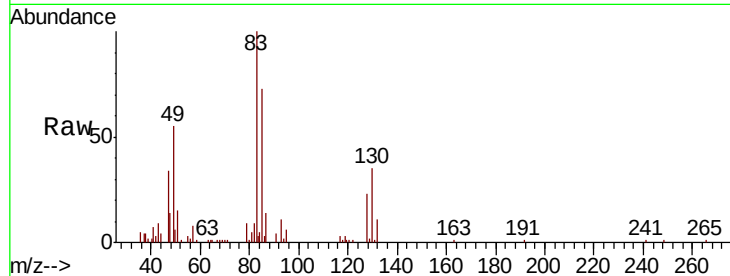
Ion 56.10 (55.80 to 56.80): VL0





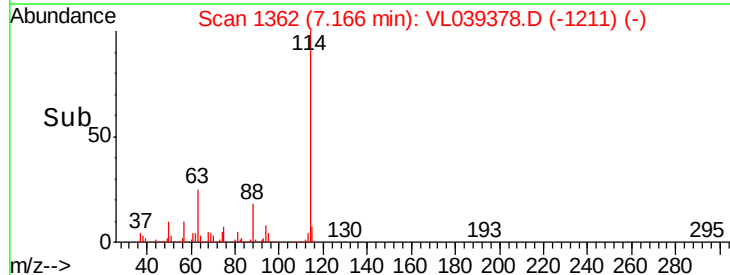
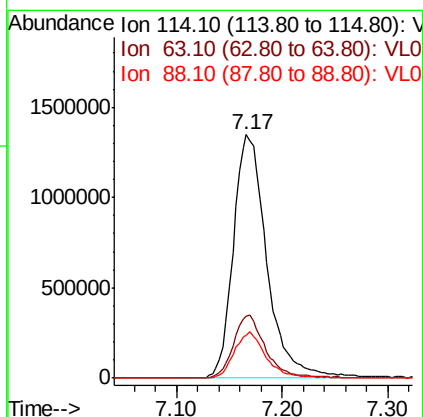
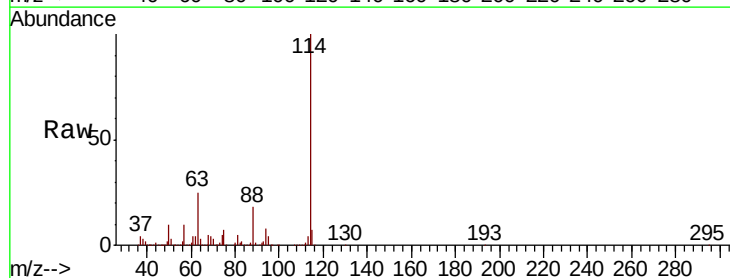
#29
Chloroform
Concen: 0.327 ppbv
RT: 5.75
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Jun 2022 4:22

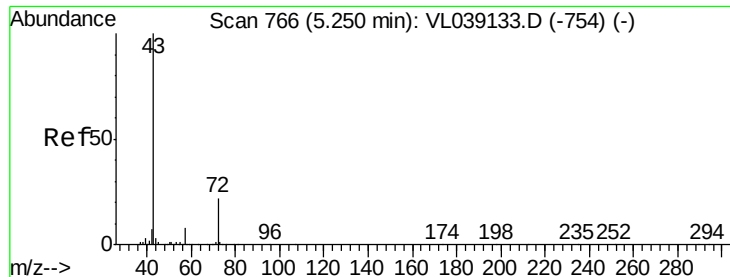
Tot Ion: 83 Resp: 56328
Ion Ratio Lower Upper
83 100
85 73.2 52.4 78.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.02 min
Lab File: VL039378.D
Acq: 28 Jun 2022 4:22

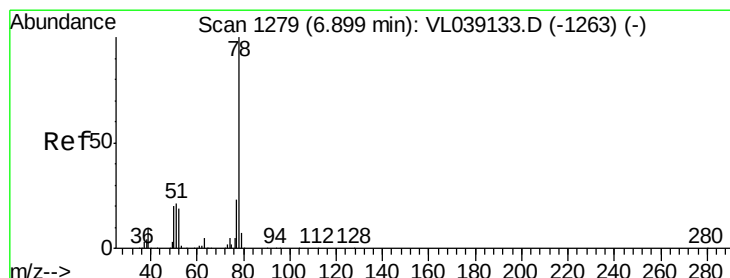
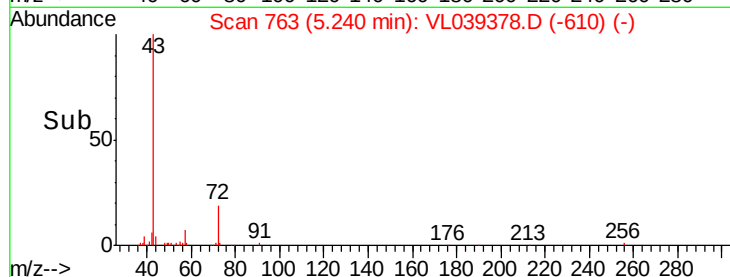
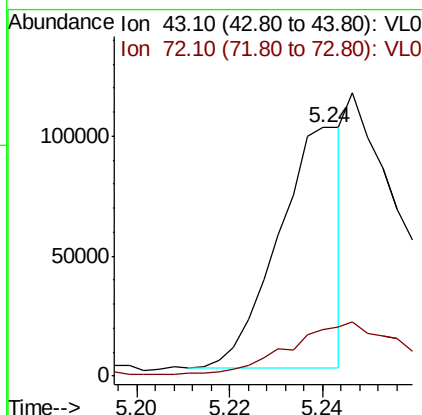
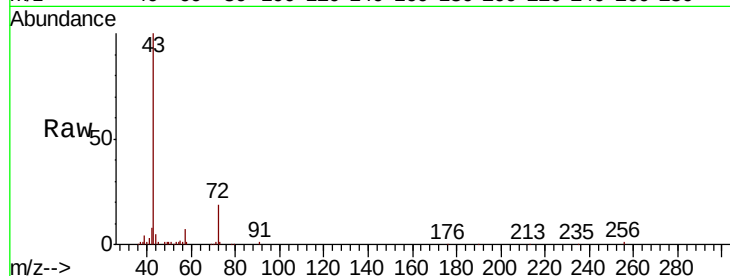
Tgt Ion: 114 Resp: 2950838
Ion Ratio Lower Upper
114 100
63 25.2 21.7 32.5
88 18.2 14.8 22.2





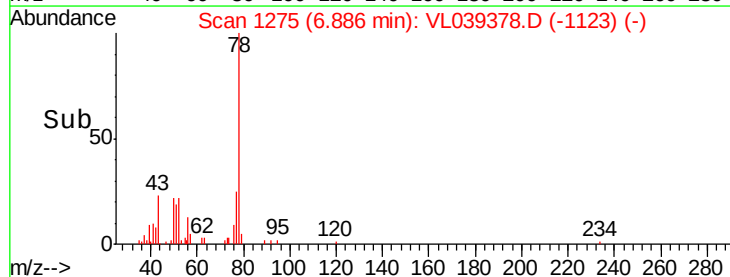
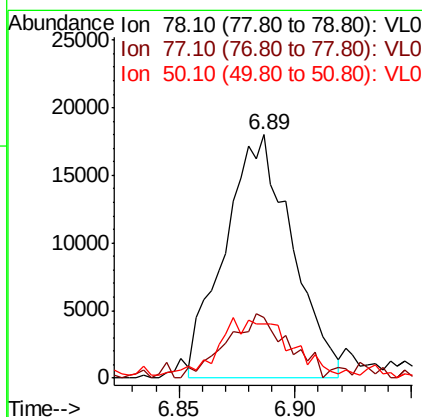
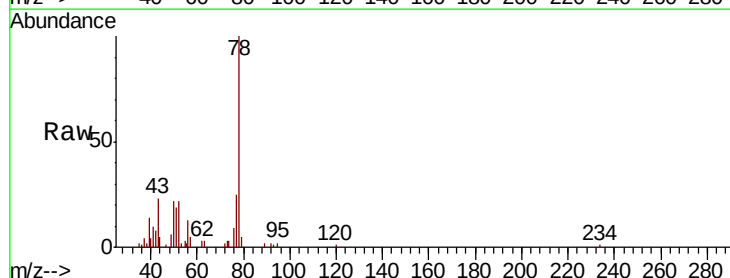
#34
 2-Butanone
 Concen: 0.597 ppbv
 RT: 5.24
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 AA-1-20220624
 Acq: 28 Jun 2022 4:22

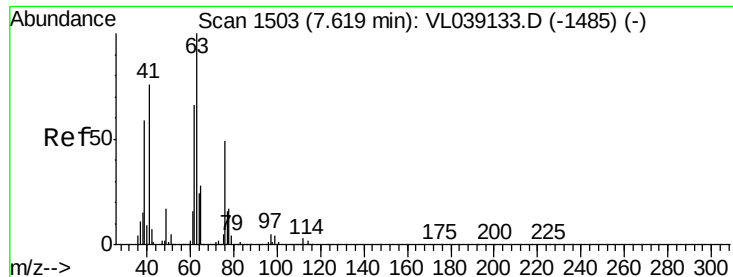
Tot Ion: 43 Resp: 95733
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.2 27.2#



#36
 Benzene
 Concen: 0.151 ppbv
 RT: 6.89 min Scan# 1275
 Delta R.T. -0.01 min
 Lab File: VL039378.D
 Acq: 28 Jun 2022 4:22

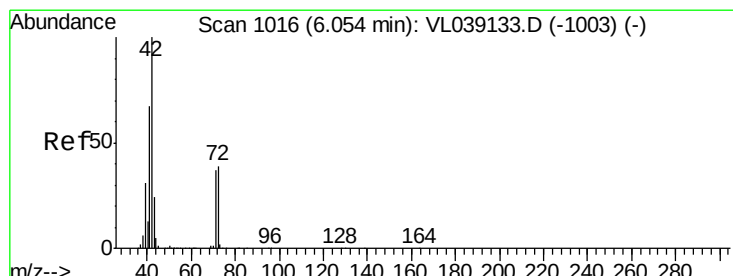
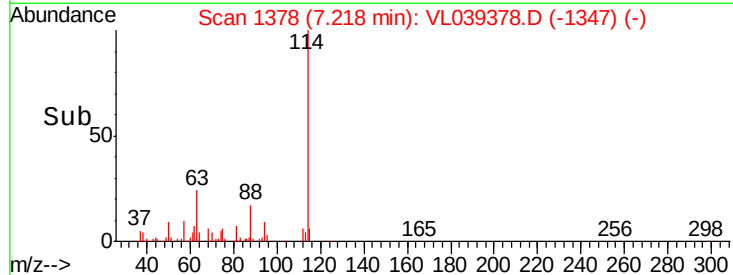
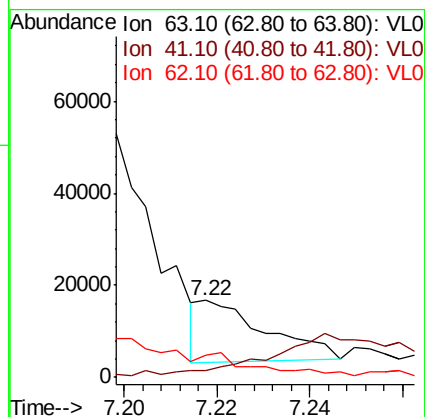
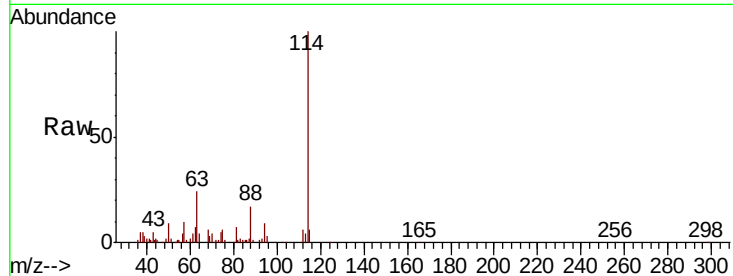
Tgt Ion: 78 Resp: 36269
 Ion Ratio Lower Upper
 78 100
 77 21.6 18.6 27.8
 50 21.7 15.8 23.8





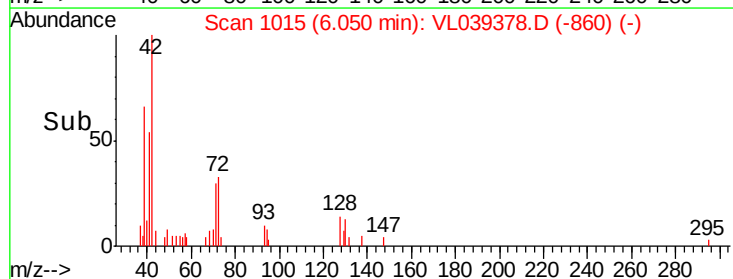
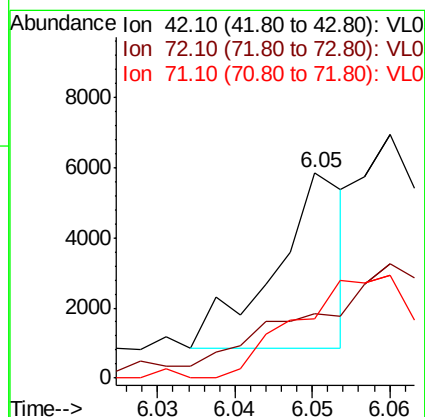
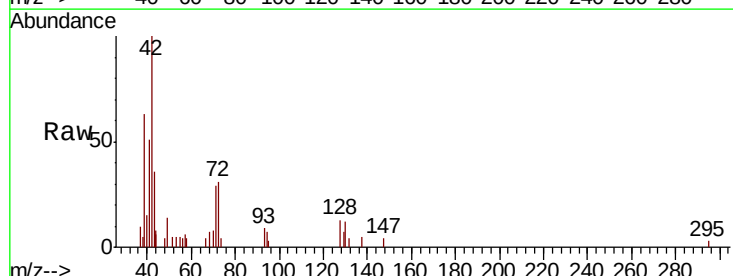
#39
 1,2-Dichloropropane
 Concen: 0.139 ppbv
 RT: 7.22
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Jun 2022 4:22

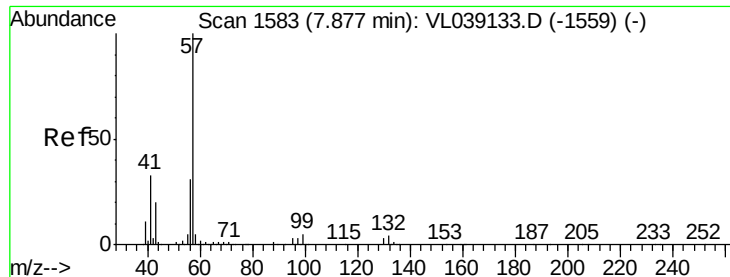
Tot Ion	63	Resp	13260
Ion Ratio	Lower	Upper	
63	100		
41	0.0	60.8	91.2#
62	28.8	52.9	79.3#



#41
 Tetrahydrofuran
 Concen: 0.033 ppbv
 RT: 6.05 min Scan# 1015
 Delta R.T. -0.00 min
 Lab File: VL039378.D
 Acq: 28 Jun 2022 4:22

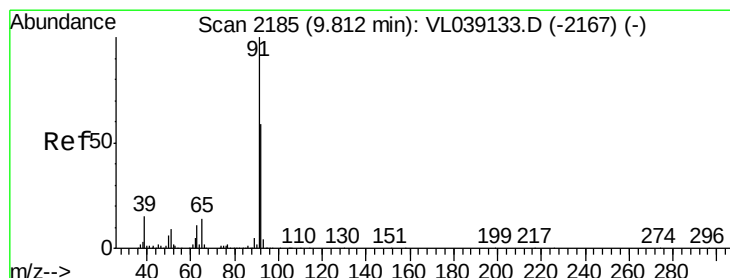
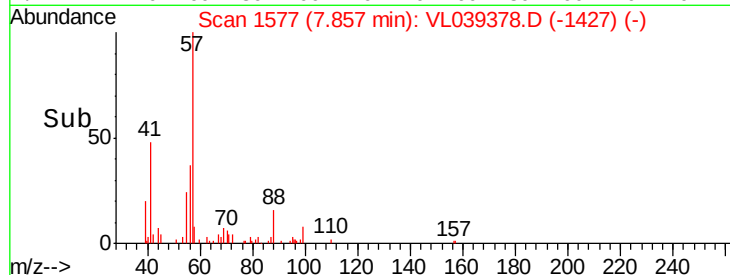
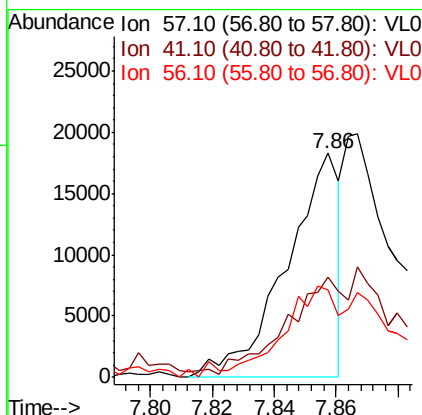
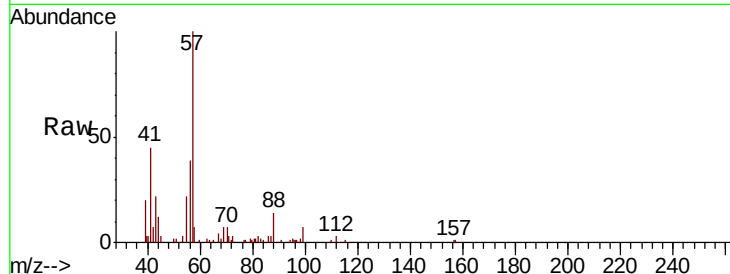
Tgt Ion	42	Resp	3170
Ion Ratio	Lower	Upper	
42	100		
72	0.0	32.0	48.0#
71	0.0	31.1	46.7#





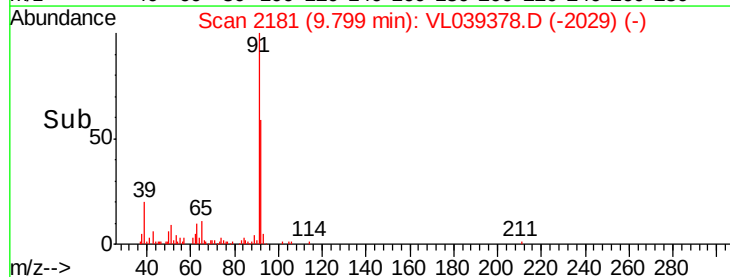
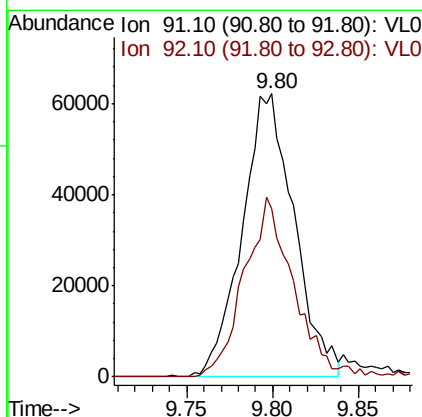
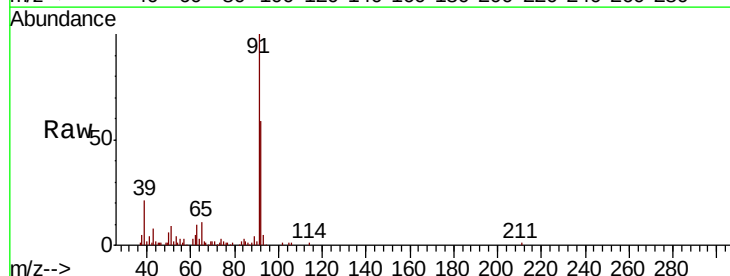
#44
 2,2,4-Trimethylpentane
 Concen: 0.052 ppbv
 RT: 7.86
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Jun 2022 4:22

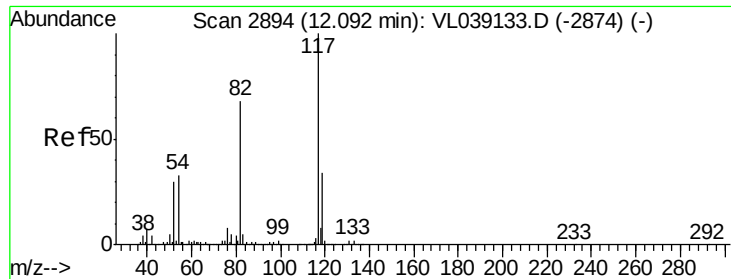
Tot Ion	57	Resp	21714
Ion Ratio	Lower	Upper	
57	100		
41	0.0	26.2	39.4#
56	103.0	24.7	37.1#



#53
 Toluene
 Concen: 0.473 ppbv
 RT: 9.80 min Scan# 2181
 Delta R.T. -0.01 min
 Lab File: VL039378.D
 Acq: 28 Jun 2022 4:22

Tgt Ion	91	Resp	130595
Ion Ratio	Lower	Upper	
91	100		
92	61.2	48.1	72.1

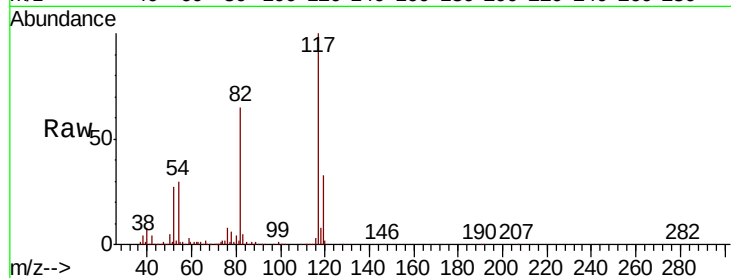




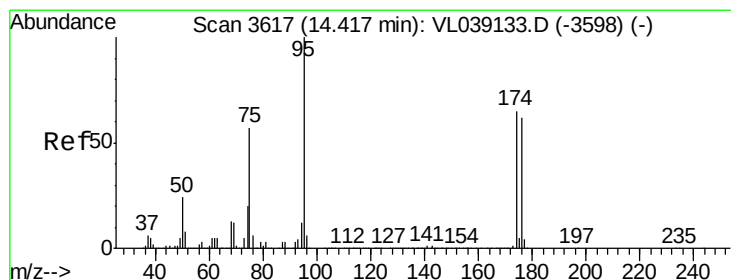
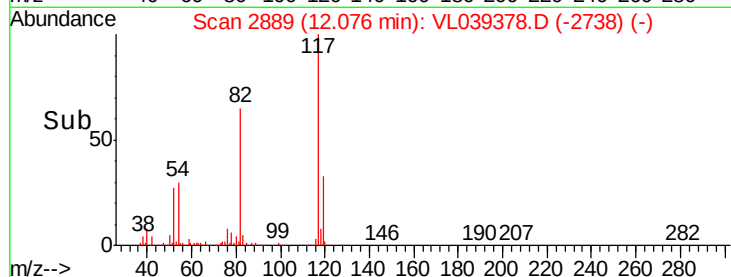
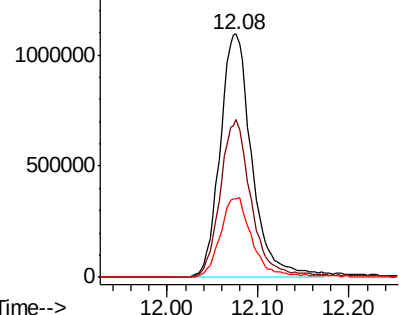
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
AA-1-20220624
Acq: 28 Jun 2022 4:22

Tot Ion: 117 Resp: 2655228

Ion	Ratio	Lower	Upper
117	100		
82	64.7	55.1	82.7
119	33.3	24.7	37.1



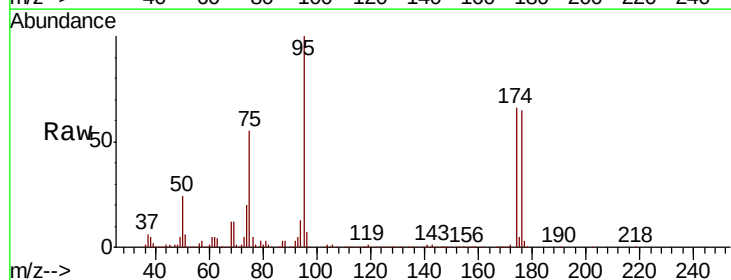
Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.120 ppbv
RT: 14.40 min Scan# 3612
Delta R.T.: -0.02 min
Lab File: VL039378.D
Acq: 28 Jun 2022 4:22

Tgt Ion: 95 Resp: 2001995

Ion	Ratio	Lower	Upper
95	100		
174	69.0	53.8	80.8
175	5.0	4.1	6.1



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

