

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038167.D
 Acq On : 14 Dec 2021 15:29
 Operator : SY/AP
 Sample : M5045-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 15 04:56:43 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	890392	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	2417685	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	2043161	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1621689	11.00	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.00%

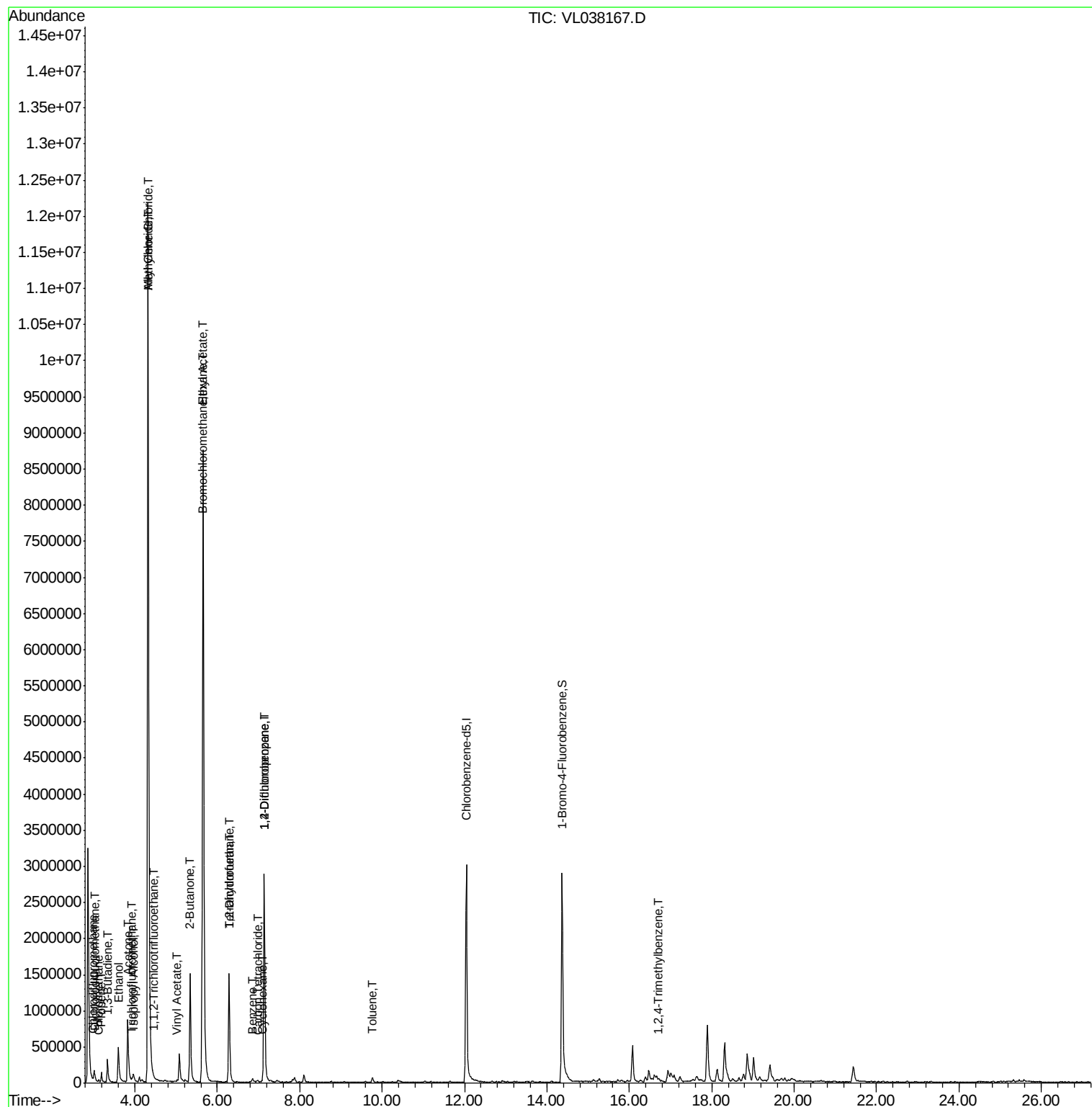
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	45101	0.307	ppbv	100
3) Chlorodifluoromethane	2.97	51	67393	0.360	ppbv #	88
4) Chloromethane	3.12	50	24619	0.387	ppbv #	74
9) Propene	3.19	41	37250	0.541	ppbv	88
11) Trichlorofluoromethane	3.93	101	17472	0.125	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	6107	0.062	ppbv	96
13) Ethanol	3.60	45	645869	97.052	ppbv	90
15) Acetone	3.83	43	1091116	14.134	ppbv	97
16) 1,3-Butadiene	3.34	39	44582	0.740	ppbv #	13
19) Isopropyl Alcohol	3.96	45	143954	2.581	ppbv #	87
20) Methylene Chloride	4.32	84	5966015	137.973	ppbv	92
21) Allyl Chloride	4.32	41	218245	3.054	ppbv #	22
23) Vinyl Acetate	5.02	43	6055	0.054	ppbv #	1
25) Ethyl Acetate	5.65	43	3048183	11.880	ppbv #	76
26) Hexane	5.65	57	4300615	34.776	ppbv #	44
30) Cyclohexane	7.09	84	5353	0.048	ppbv #	1
34) 2-Butanone	5.34	43	227672	2.335	ppbv #	55
35) Carbon Tetrachloride	6.98	117	5981	0.035	ppbv	93
36) Benzene	6.86	78	15208	0.063	ppbv #	91
37) 1,2-Dichloroethane	6.28	62	5670	0.049	ppbv #	79
39) 1,2-Dichloropropane	7.14	63	641578	6.935	ppbv #	27
41) Tetrahydrofuran	6.29	42	220162	3.638	ppbv #	36
53) Toluene	9.77	91	43423	0.156	ppbv	96
74) 1,2,4-Trimethylbenzene	16.70	105	8673	0.030	ppbv #	71

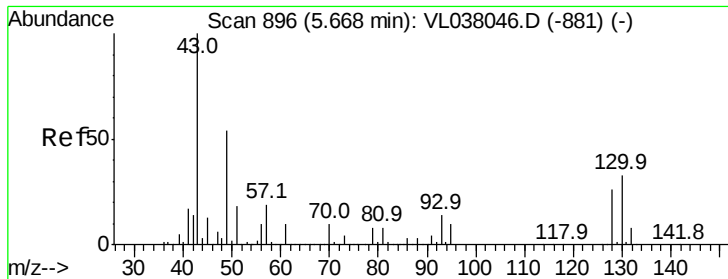
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121421\
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Misc : 400mL/MSVOA L
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Quant Time: Dec 15 04:56:43 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
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QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 15:29

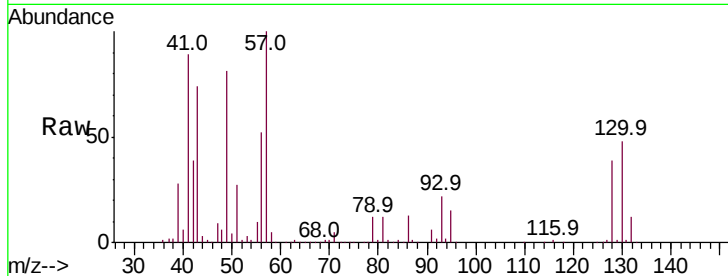
Tot Ion: 49 Resp: 890392

Ion Ratio Lower Upper

49 100

128 47.8 26.5 79.5

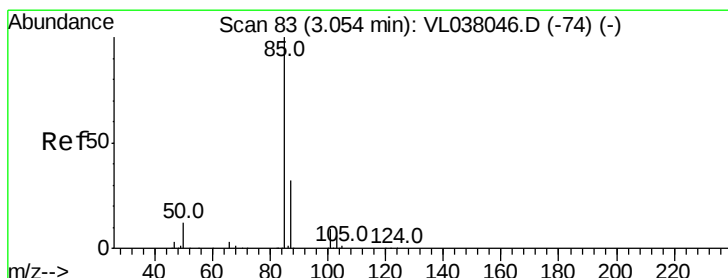
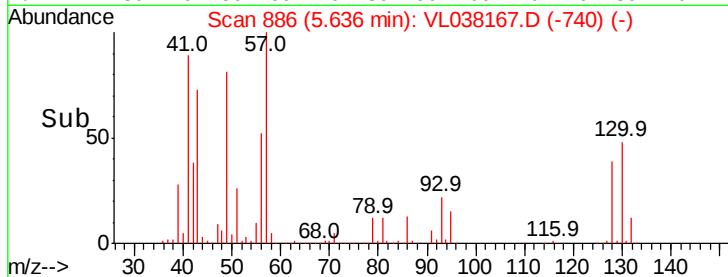
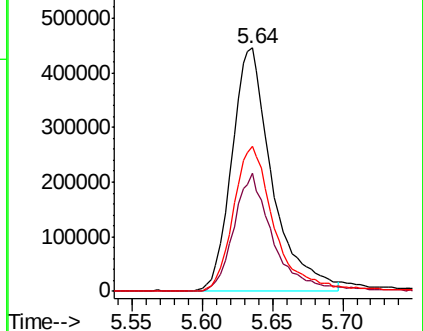
130 62.0 32.5 97.4



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: 0.307 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL038167.D

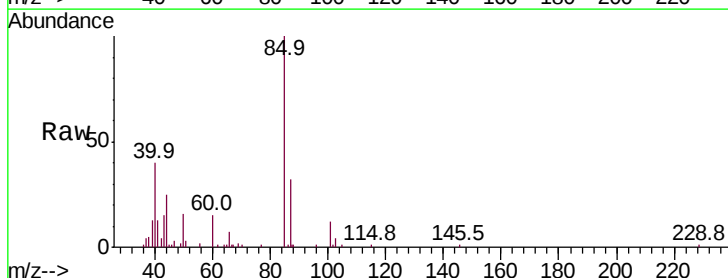
Acq: 14 Dec 2021 15:29

Tgt Ion: 85 Resp: 45101

Ion Ratio Lower Upper

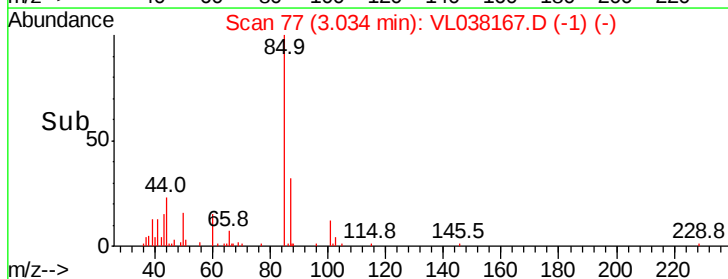
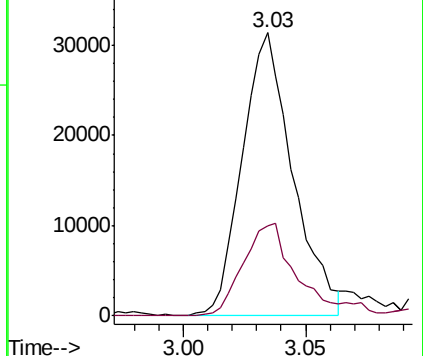
85 100

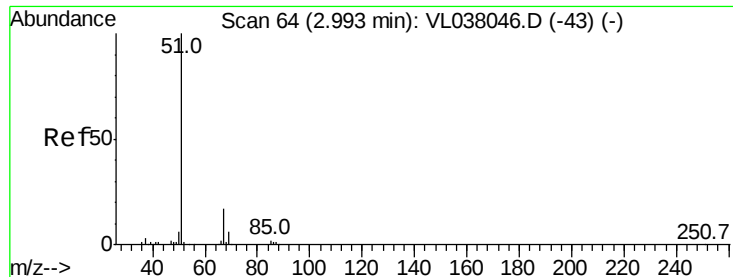
87 32.4 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

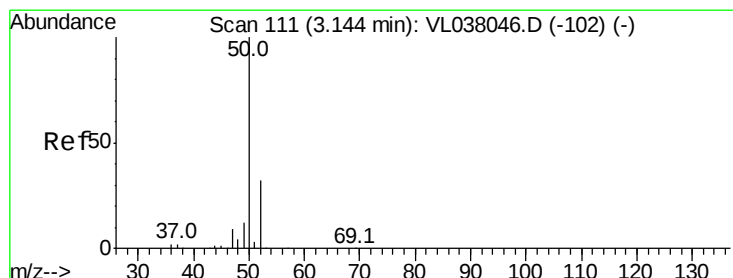
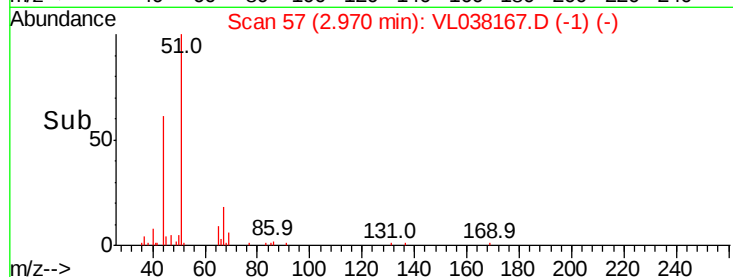
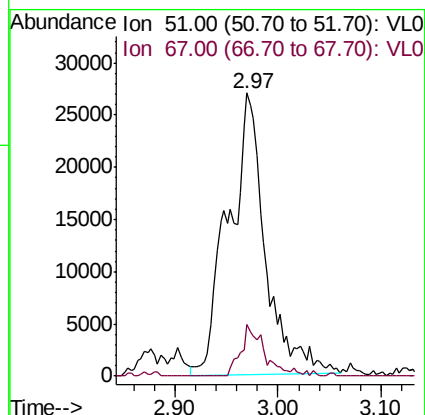
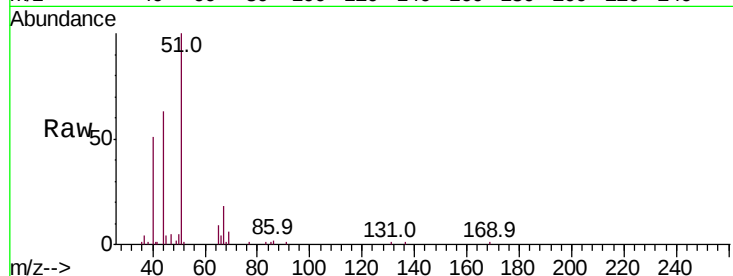
Ion 87.00 (86.70 to 87.70): VL0





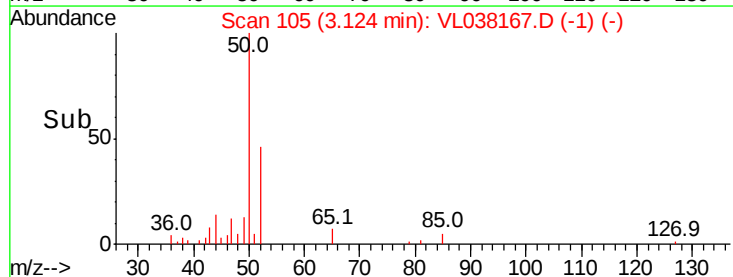
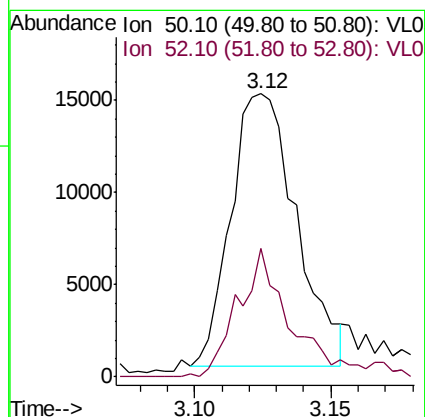
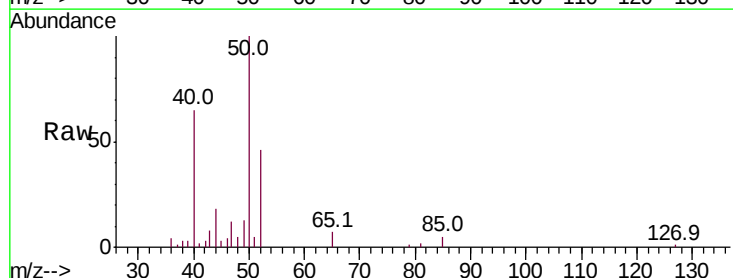
#3
 Chlorodifluoromethane
 Concen: 0.360 ppbv
 RT: 2.97
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 15:29

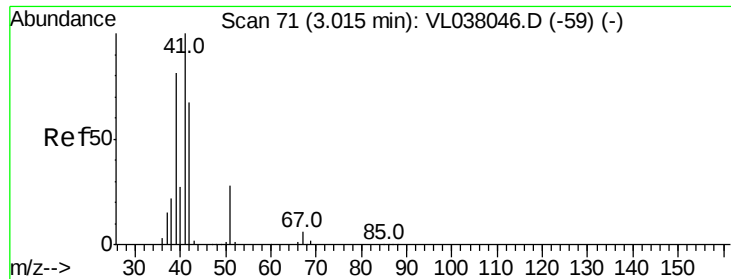
Tot Ion: 51 Resp: 67393
 Ion Ratio Lower Upper
 51 100
 67 12.0 13.8 20.8#



#4
 Chloromethane
 Concen: 0.387 ppbv
 RT: 3.12 min Scan# 105
 Delta R.T. -0.02 min
 Lab File: VL038167.D
 Acq: 14 Dec 2021 15:29

Tgt Ion: 50 Resp: 24619
 Ion Ratio Lower Upper
 50 100
 52 46.1 25.4 38.0#





#9

Propene

Concen: 0.541 ppbv

RT: 3.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

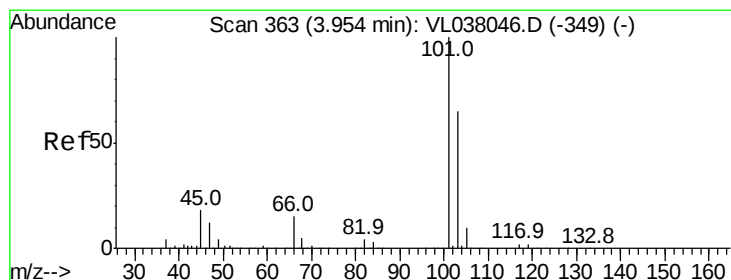
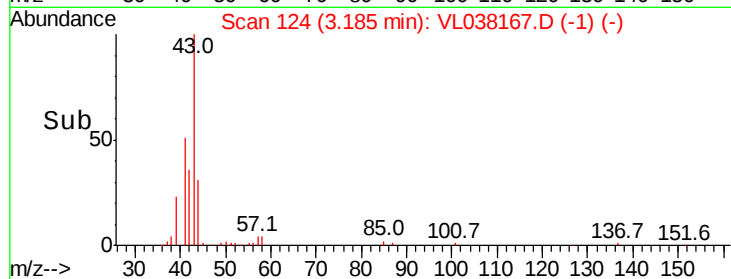
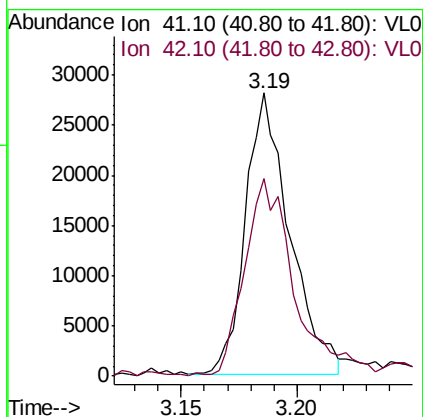
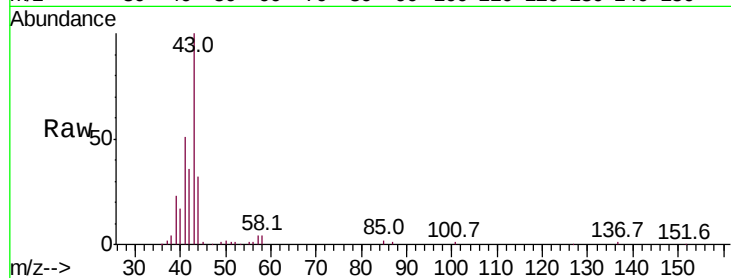
Acq: 14 Dec 2021 15:29

Tot Ion: 41 Resp: 37250

Ion Ratio Lower Upper

41 100

42 76.8 53.8 80.8



#11

Trichlorofluoromethane

Concen: 0.125 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.03 min

Lab File: VL038167.D

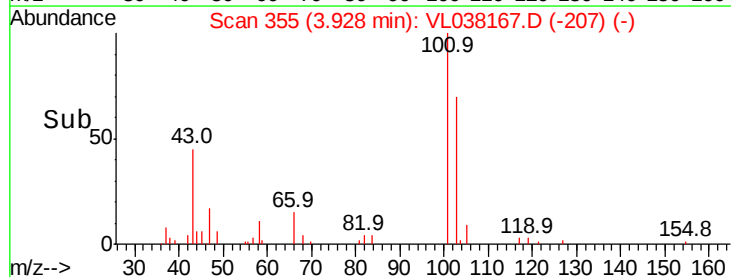
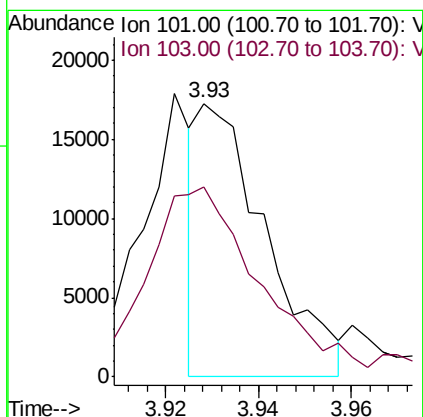
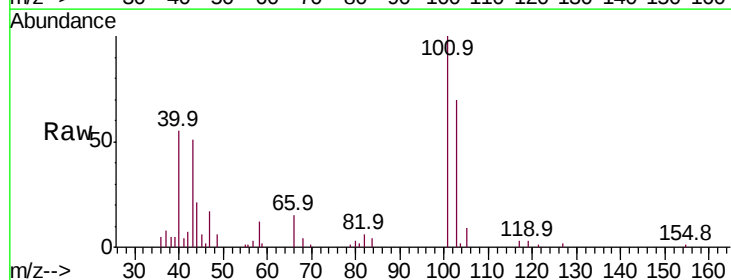
Acq: 14 Dec 2021 15:29

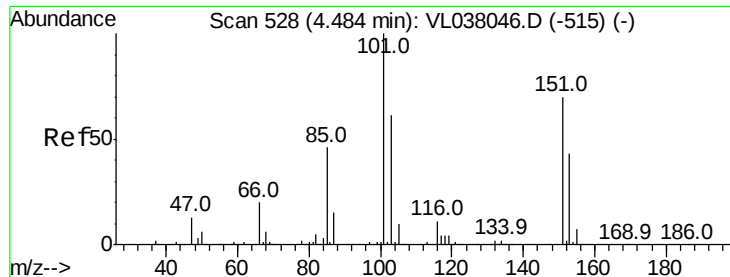
Tgt Ion: 101 Resp: 17472

Ion Ratio Lower Upper

101 100

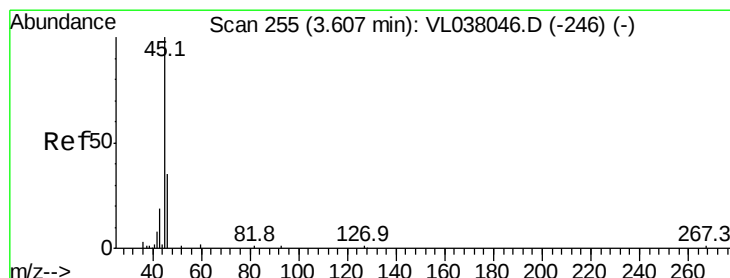
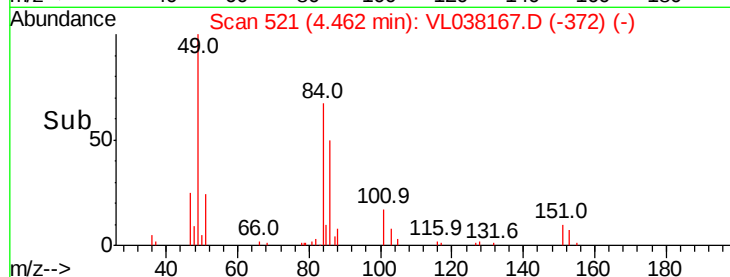
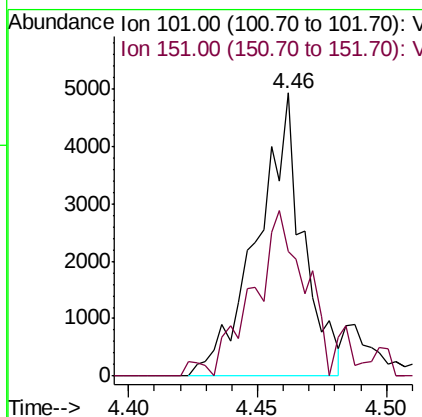
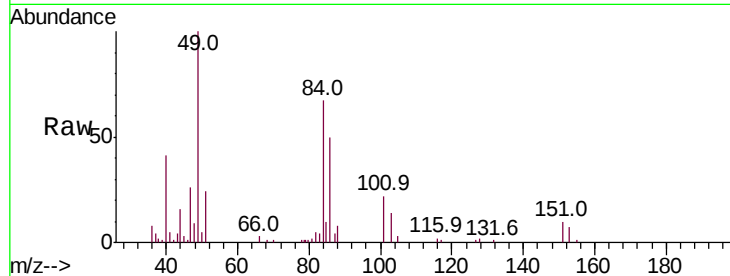
103 66.0 51.8 77.6





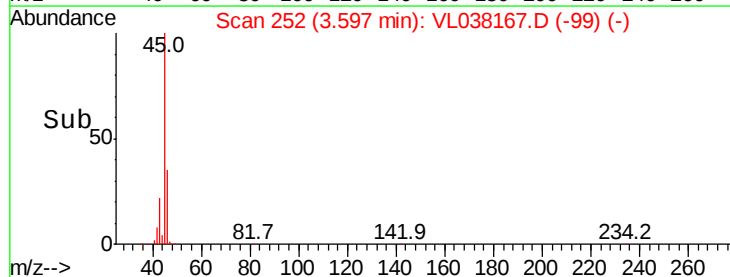
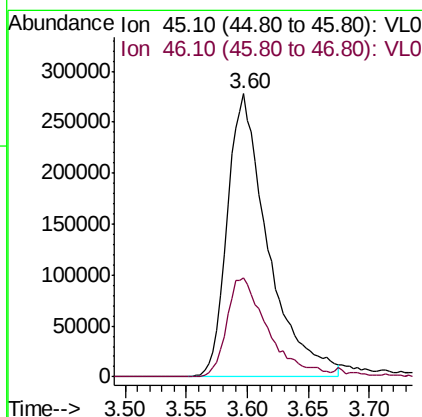
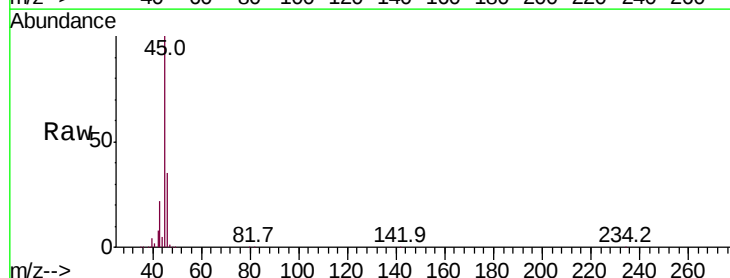
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.062 ppbv
 RT: 4.46
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Dec 2021 15:29

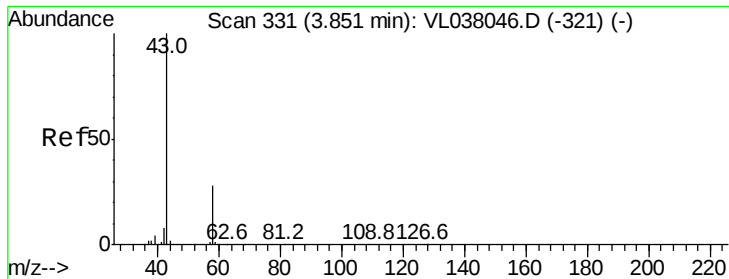
Tot Ion: 101 Resp: 6107
 Ion Ratio Lower Upper
 101 100
 151 76.8 59.0 88.4



#13
 Ethanol
 Concen: 97.052 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. -0.01 min
 Lab File: VL038167.D
 Acq: 14 Dec 2021 15:29

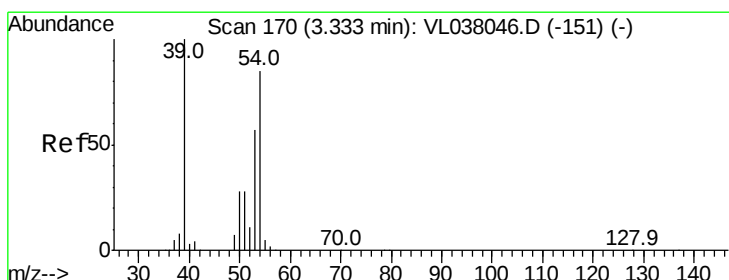
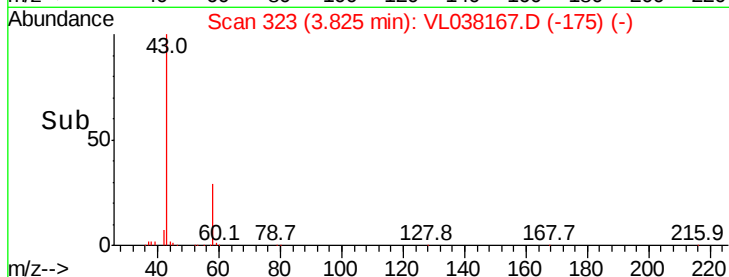
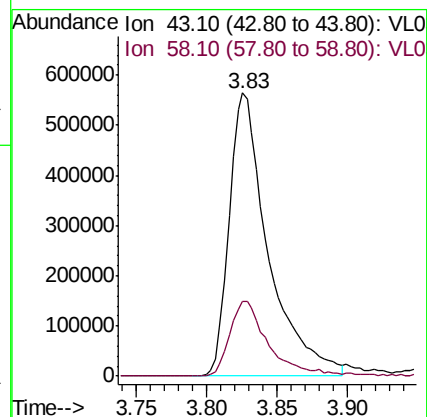
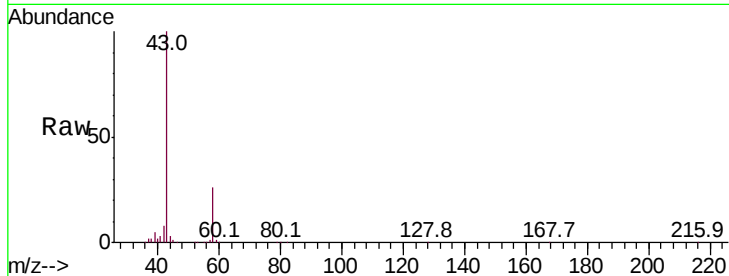
Tgt Ion: 45 Resp: 645869
 Ion Ratio Lower Upper
 45 100
 46 37.6 17.6 70.2





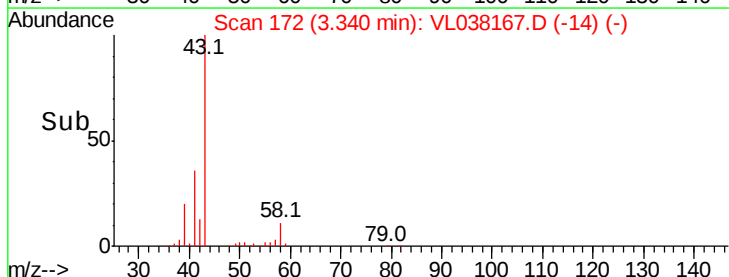
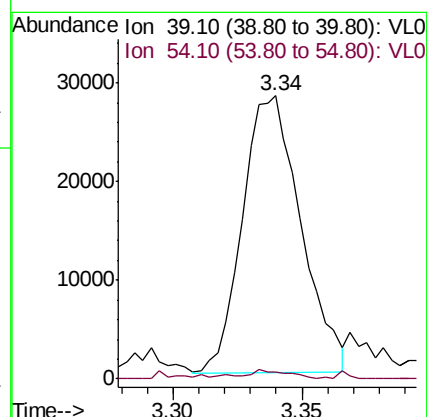
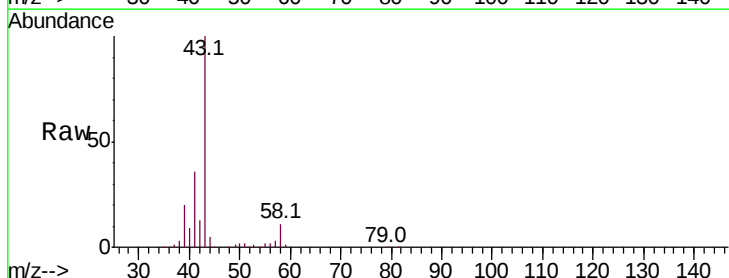
#15
Acetone
Concen: 14.134 ppbv
RT: 3.83
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 15:29

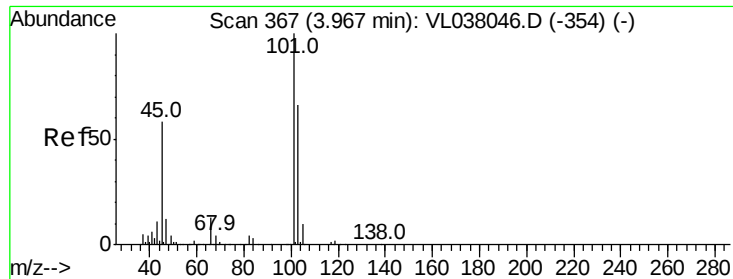
Tot Ion: 43 Resp: 1091116
Ion Ratio Lower Upper
43 100
58 26.6 22.4 33.6



#16
1,3-Butadiene
Concen: 0.740 ppbv
RT: 3.34 min Scan# 172
Delta R.T. 0.01 min
Lab File: VL038167.D
Acq: 14 Dec 2021 15:29

Tgt Ion: 39 Resp: 44582
Ion Ratio Lower Upper
39 100
54 3.7 64.4 96.6#





#19

Isopropyl Alcohol

Concen: 2.581 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

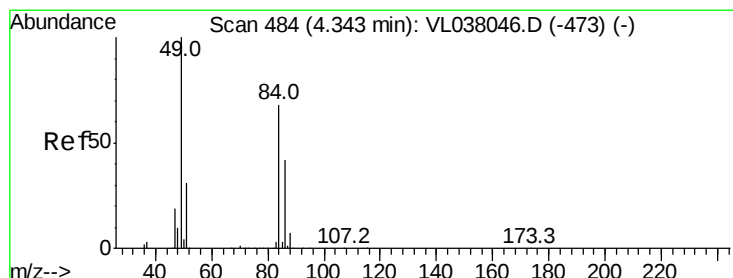
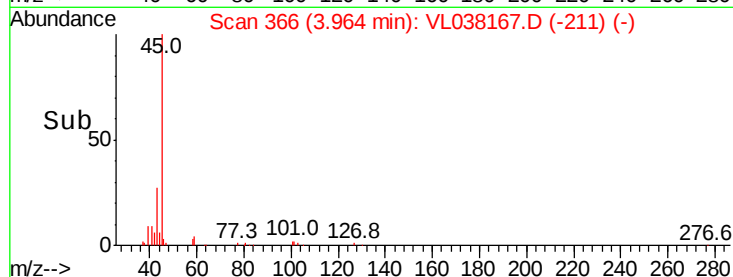
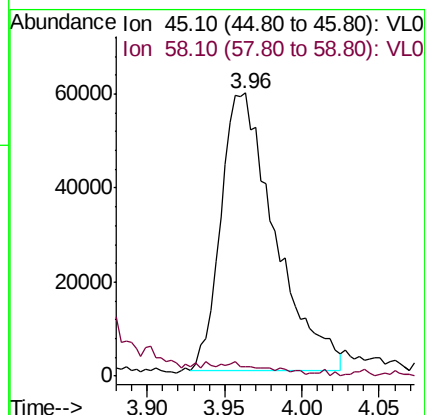
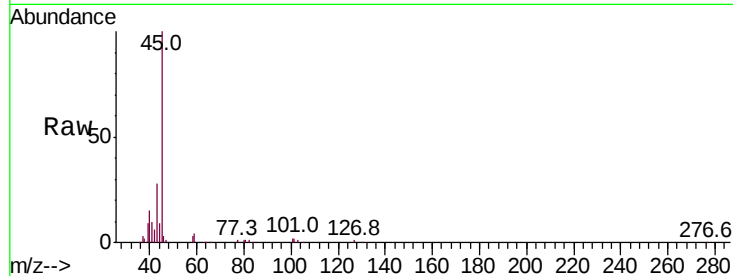
Acq: 14 Dec 2021 15:29

Tot Ion: 45 Resp: 143954

Ion Ratio Lower Upper

45 100

58 6.4 1.4 2.0#



#20

Methylene Chloride

Concen: 137.973 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.03 min

Lab File: VL038167.D

Acq: 14 Dec 2021 15:29

Tgt Ion: 84 Resp: 5966015

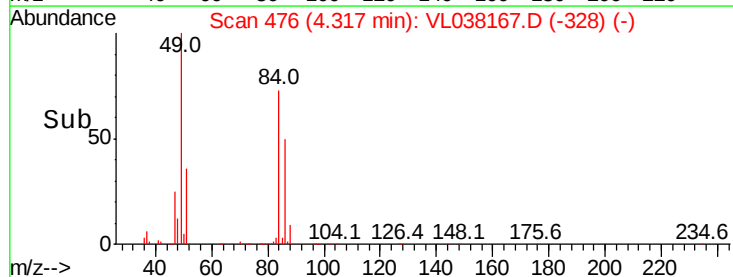
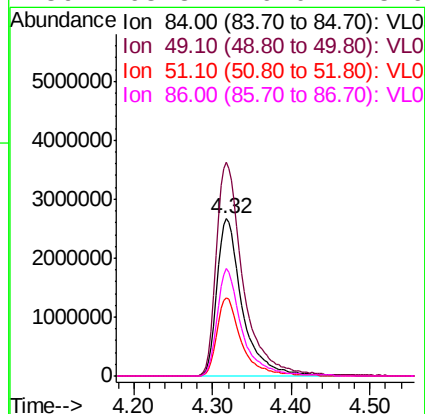
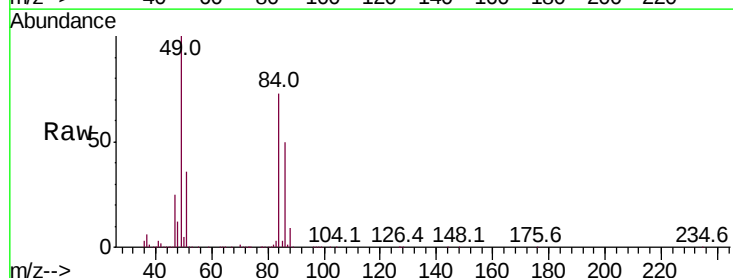
Ion Ratio Lower Upper

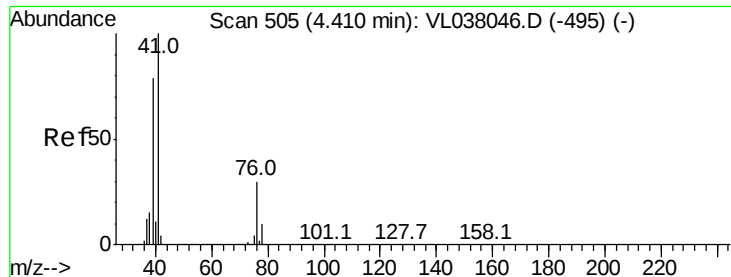
84 100

49 136.1 118.2 177.2

51 49.5 36.8 55.2

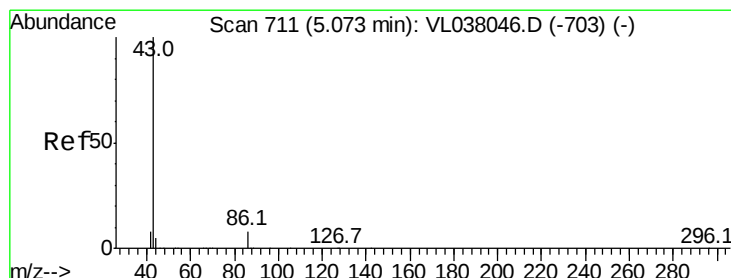
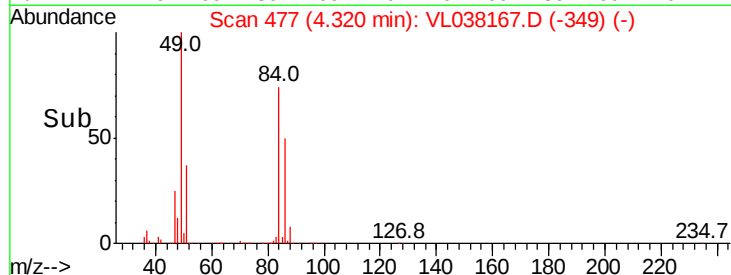
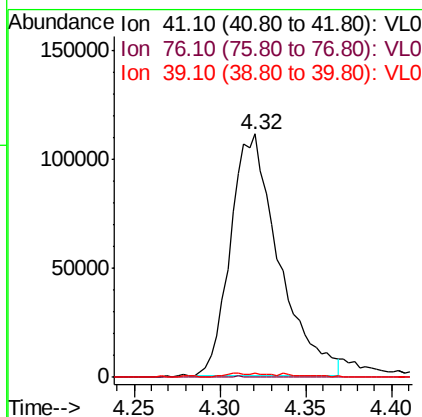
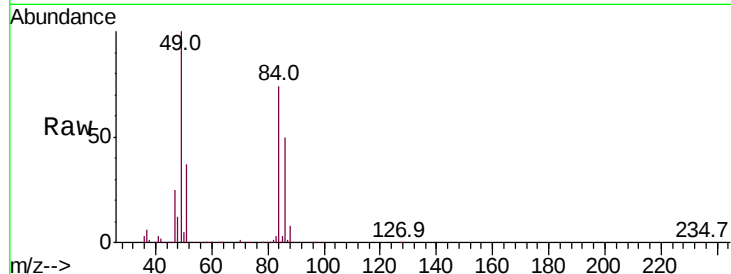
86 68.3 49.0 73.6





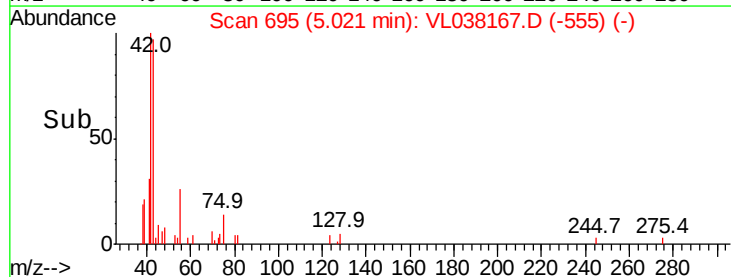
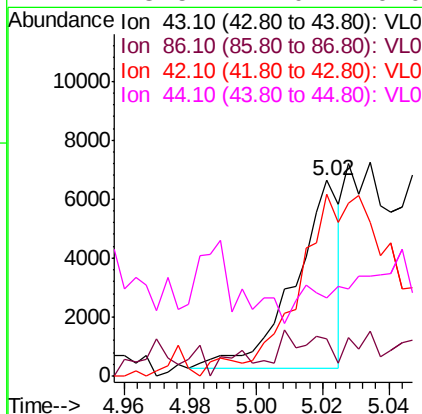
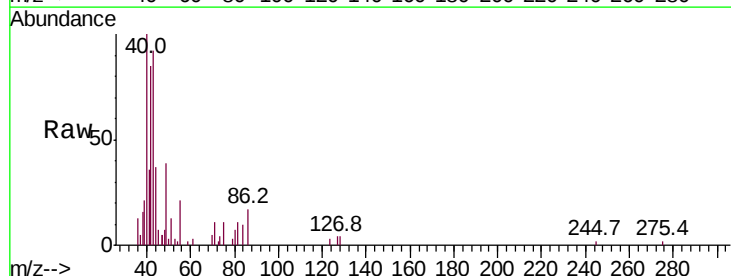
#21
 Allvl Chloride
 Concen: 3.054 ppbv
 RT: 4.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 15:29

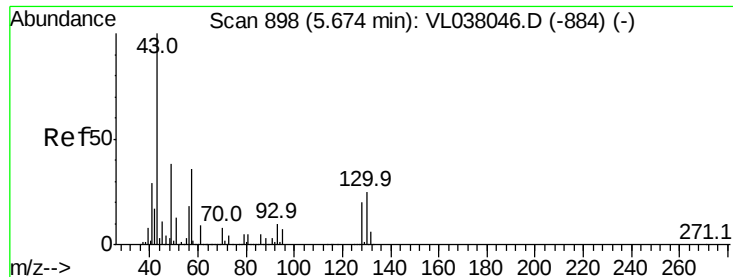
Tot Ion: 41 Resp: 218245
 Ion Ratio Lower Upper
 41 100
 76 0.1 24.6 36.8#
 39 3.1 63.4 95.0#



#23
 Vinyl Acetate
 Concen: 0.054 ppbv
 RT: 5.02 min Scan# 695
 Delta R.T. -0.05 min
 Lab File: VL038167.D
 Acq: 14 Dec 2021 15:29

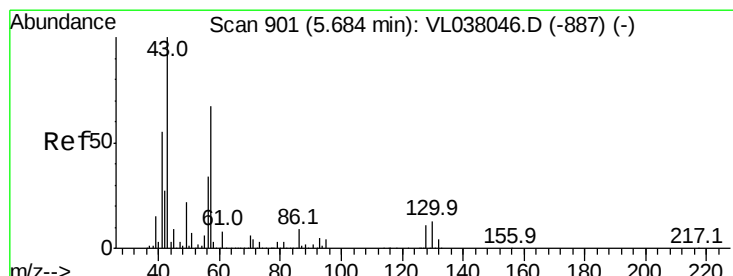
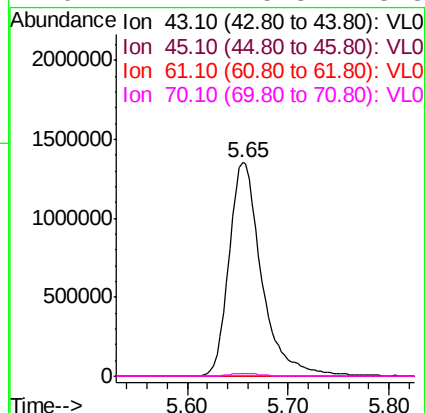
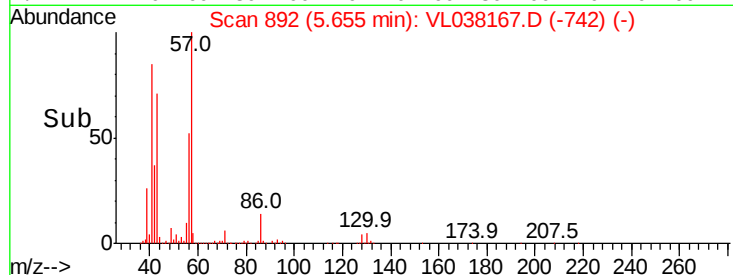
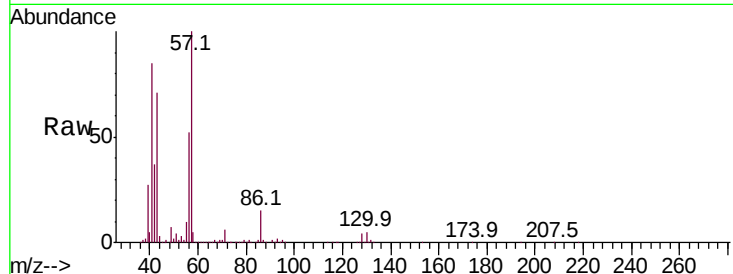
Tgt Ion: 43 Resp: 6055
 Ion Ratio Lower Upper
 43 100
 86 12.8 5.3 7.9#
 42 92.4 7.0 10.6#
 44 3.5 4.0 6.0#





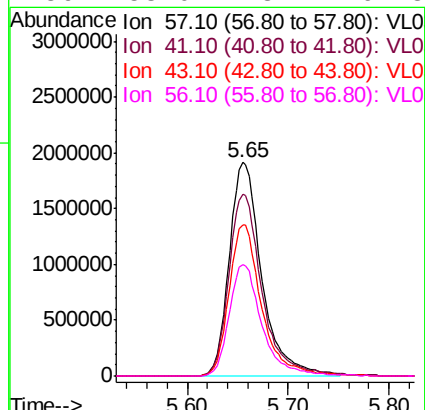
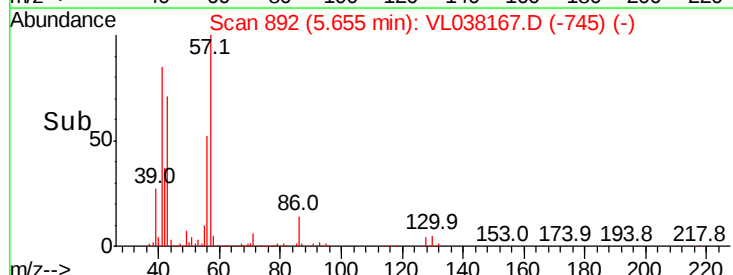
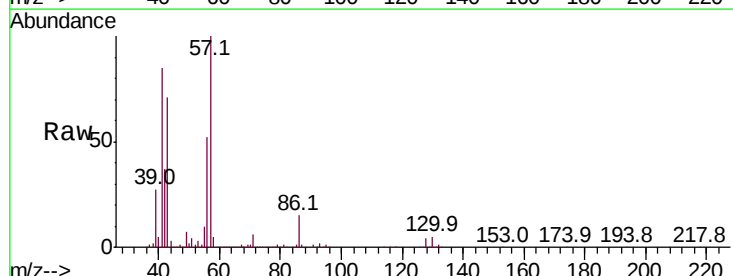
#25
Ethyl Acetate
Concen: 11.880 ppbv
RT: 5.65 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Dec 2021 15:29

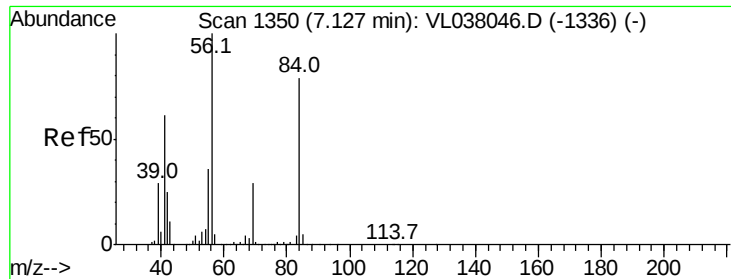
Tot Ion:	43	Resp:	3048183
Ion	Ratio	Lower	Upper
43	100		
45	0.2	7.9	11.9#
61	0.2	7.8	11.6#
70	1.4	5.8	8.8#



#26
Hexane
Concen: 34.776 ppbv
RT: 5.65 min Scan# 892
Delta R.T.: -0.03 min
Lab File: VL038167.D
Acq: 14 Dec 2021 15:29

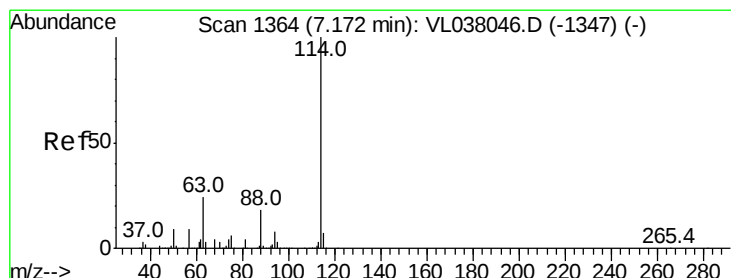
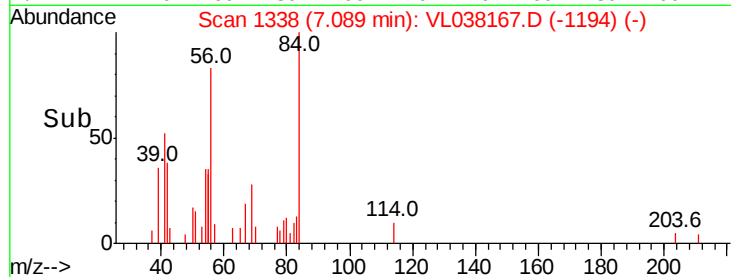
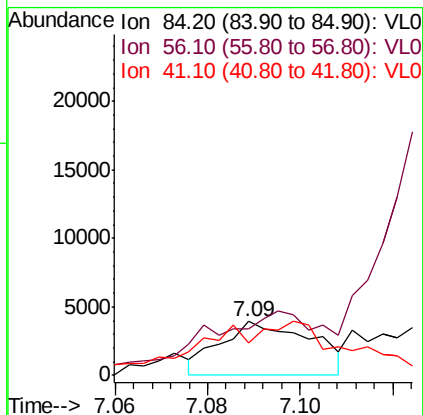
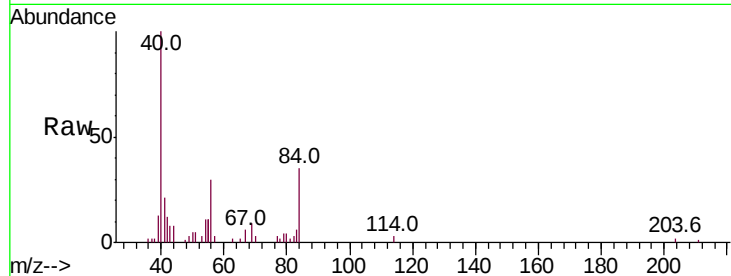
Tgt Ion:	57	Resp:	4300615
Ion	Ratio	Lower	Upper
57	100		
41	87.8	71.4	107.2
43	71.6	174.6	261.8#
56	53.0	43.2	64.8





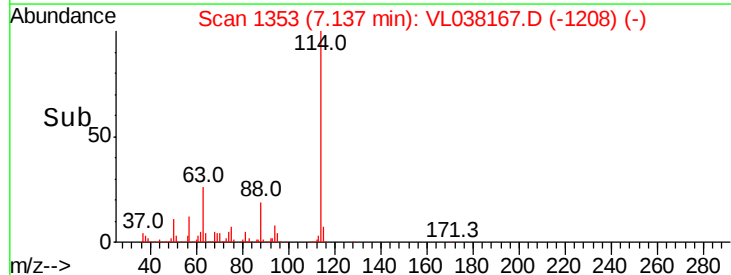
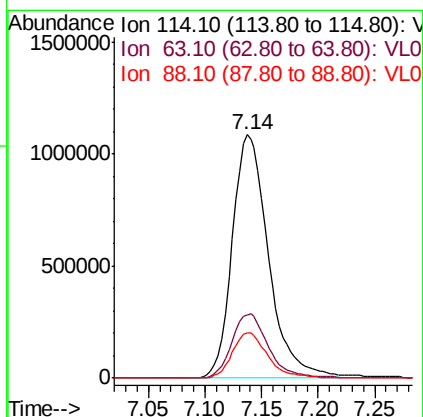
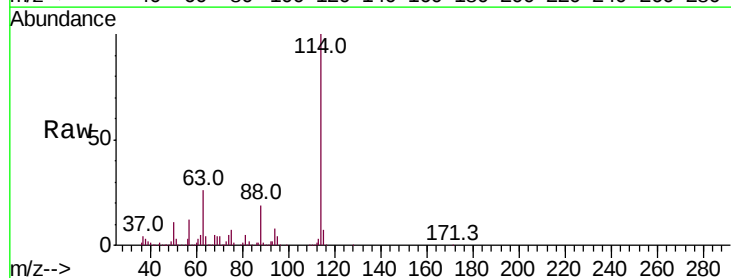
#30
Cvclohexane
Concen: 0.048 ppbv
RT: 7.09
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Dec 2021 15:29

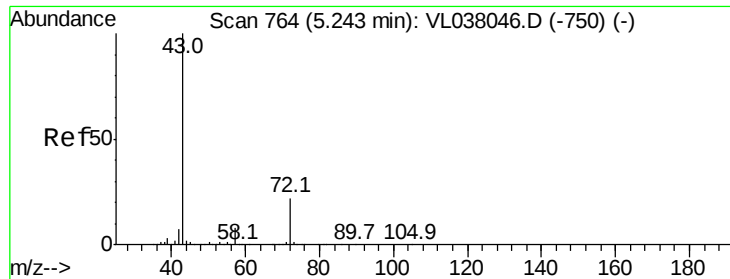
Tot Ion: 84 Resp: 5353
Ion Ratio Lower Upper
84 100
56 0.0 108.1 162.1#
41 197.1 64.4 96.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.04 min
Lab File: VL038167.D
Acq: 14 Dec 2021 15:29

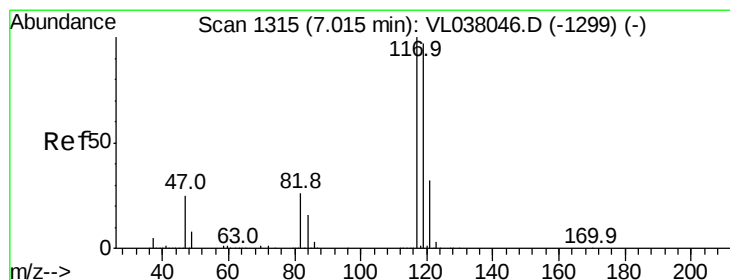
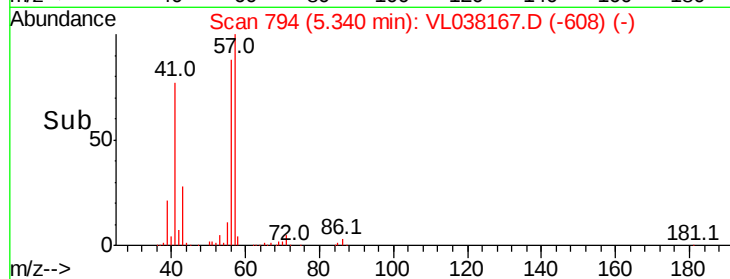
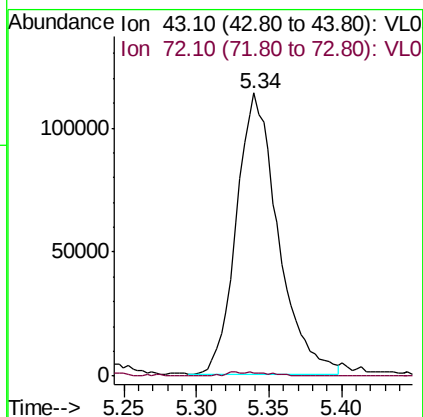
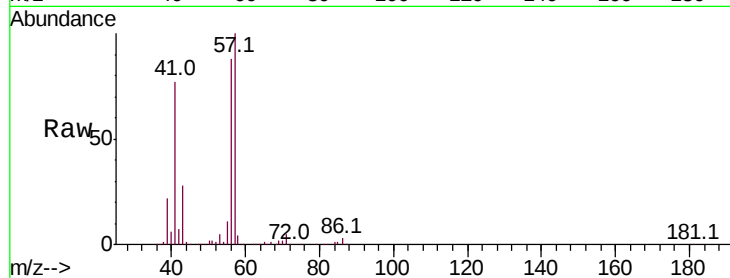
Tgt Ion: 114 Resp: 2417685
Ion Ratio Lower Upper
114 100
63 27.1 19.7 29.5
88 18.6 14.4 21.6





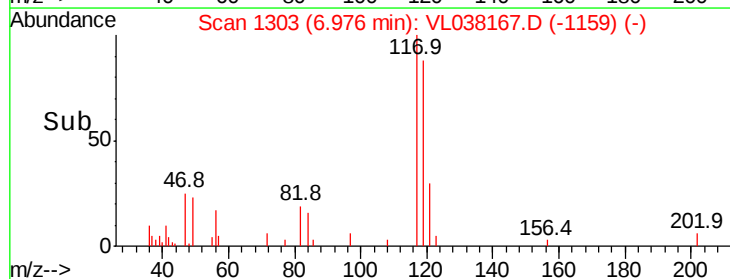
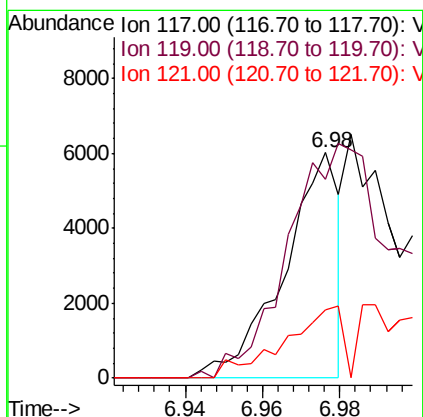
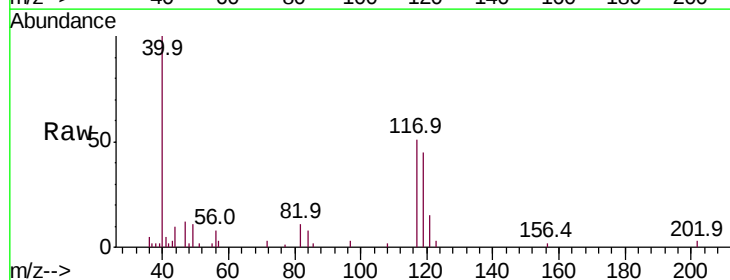
#34
2-Butanone
Concen: 2.335 ppbv
RT: 5.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Dec 2021 15:29

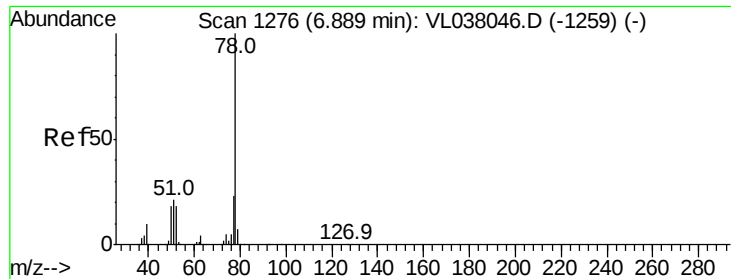
Tot Ion: 43 Resp: 227672
Ion Ratio Lower Upper
43 100
72 1.7 18.8 28.2#



#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 6.98 min Scan# 1303
Delta R.T. -0.04 min
Lab File: VL038167.D
Acq: 14 Dec 2021 15:29

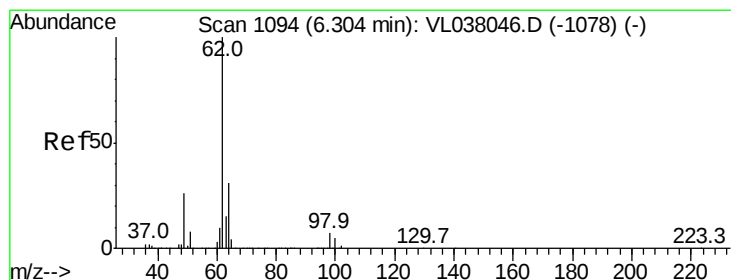
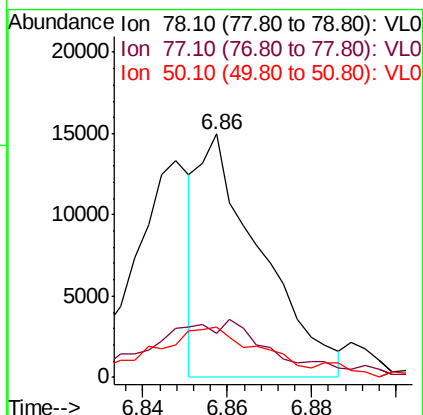
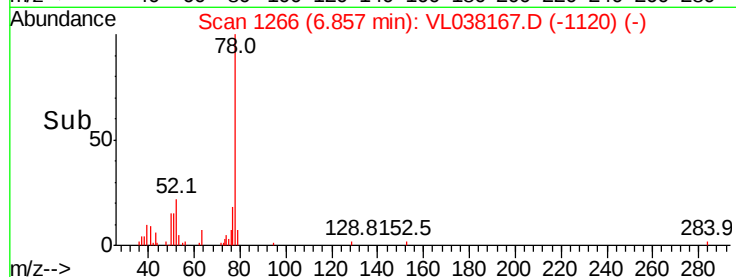
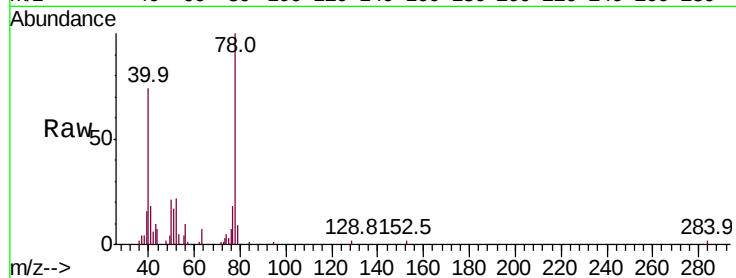
Tgt Ion: 117 Resp: 5981
Ion Ratio Lower Upper
117 100
119 88.4 77.7 116.5
121 30.1 25.6 38.4





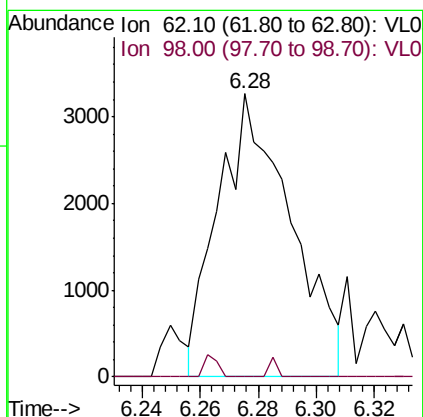
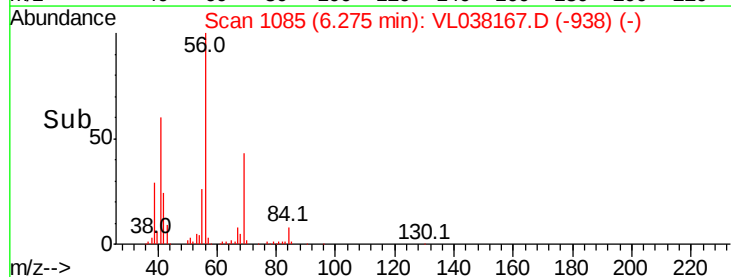
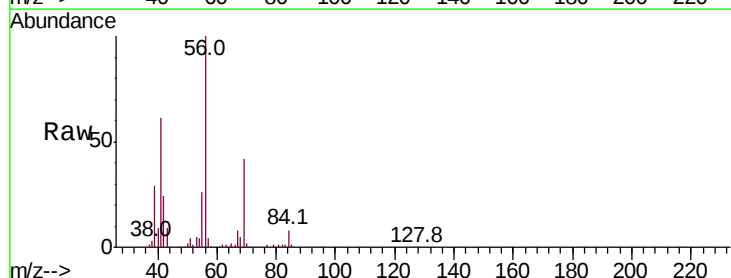
#36
Benzene
Concen: 0.063 ppbv
RT: 6.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 15:29

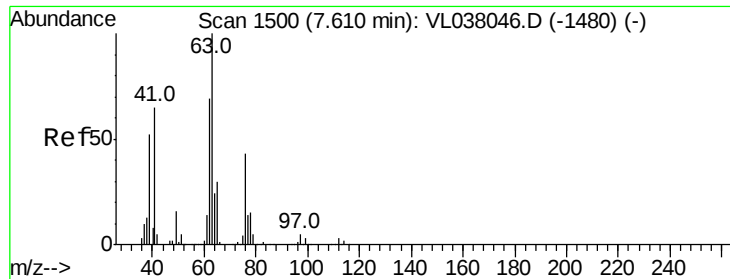
Tot Ion: 78 Resp: 15208
Ion Ratio Lower Upper
78 100
77 15.9 18.2 27.4#
50 17.0 14.7 22.1



#37
1,2-Dichloroethane
Concen: 0.049 ppbv
RT: 6.28 min Scan# 1085
Delta R.T. -0.03 min
Lab File: VL038167.D
Acq: 14 Dec 2021 15:29

Tgt Ion: 62 Resp: 5670
Ion Ratio Lower Upper
62 100
98 0.0 5.8 8.6#





#39

1,2-Dichloropropane

Concen: 6.935 ppbv

RT: 7.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 15:29

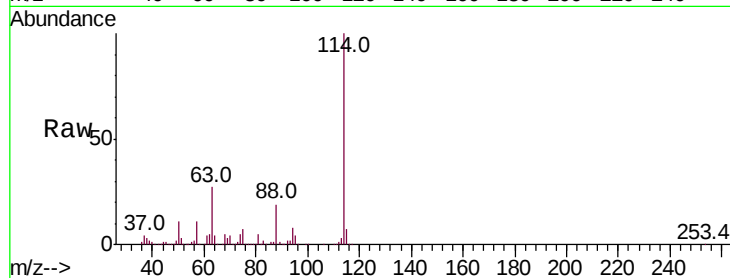
Tot Ion: 63 Resp: 641578

Ion Ratio Lower Upper

63 100

41 0.0 52.3 78.5#

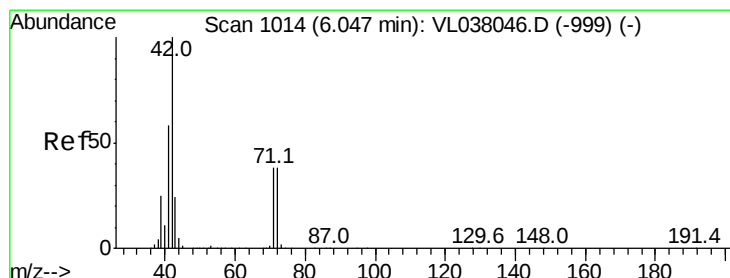
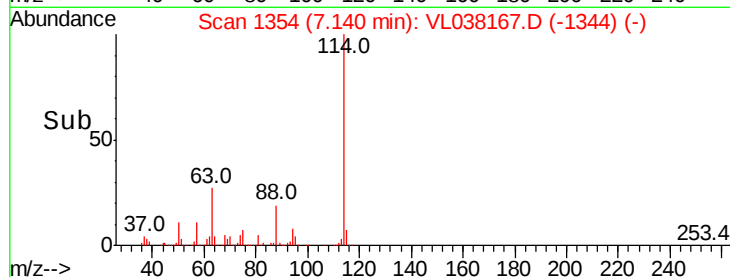
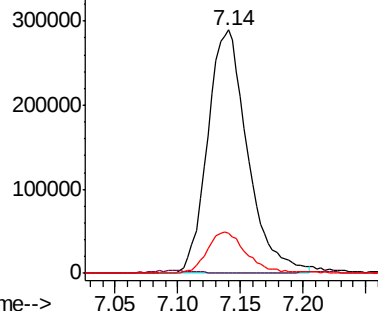
62 16.6 55.1 82.7#



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



#41

Tetrahydrofuran

Concen: 3.638 ppbv

RT: 6.29 min Scan# 1088

Delta R.T. 0.24 min

Lab File: VL038167.D

Acq: 14 Dec 2021 15:29

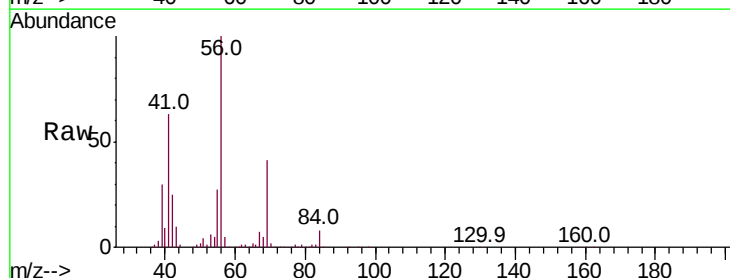
Tgt Ion: 42 Resp: 220162

Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

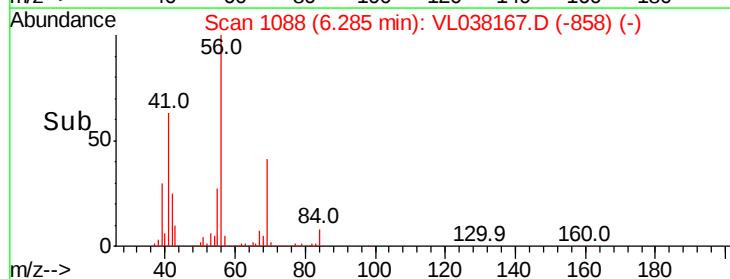
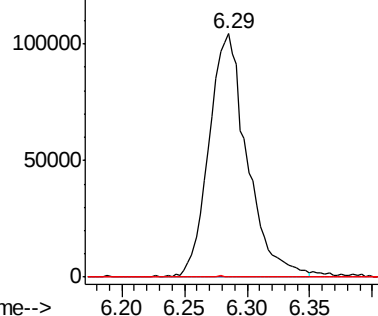
71 0.0 30.6 46.0#

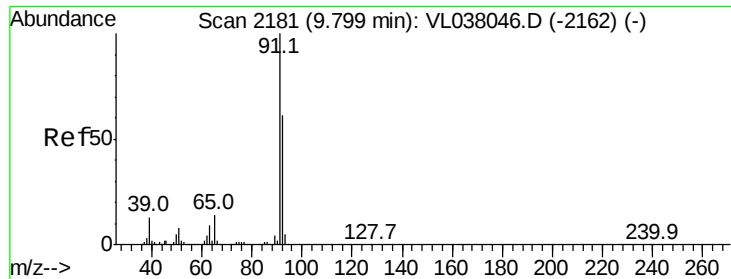


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 0.156 ppbv

RT: 9.77 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

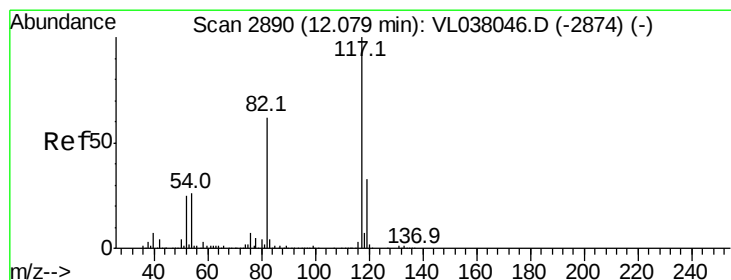
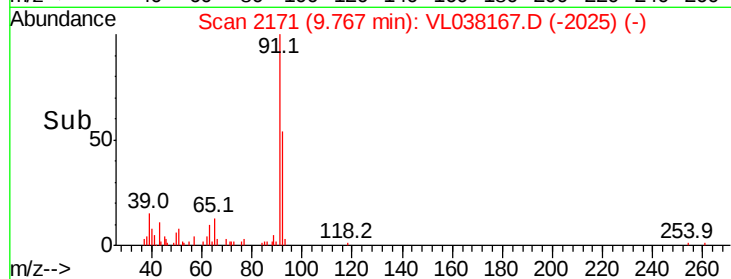
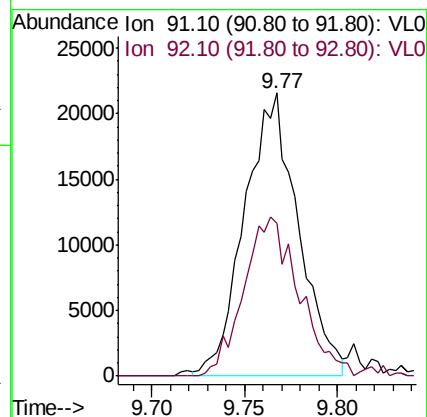
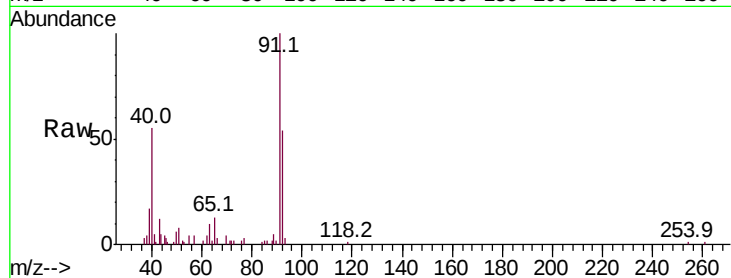
Acq: 14 Dec 2021 15:29

Tot Ion: 91 Resp: 43423

Ion Ratio Lower Upper

91 100

92 59.3 49.7 74.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.04 min Scan# 2878

Delta R.T. -0.04 min

Lab File: VL038167.D

Acq: 14 Dec 2021 15:29

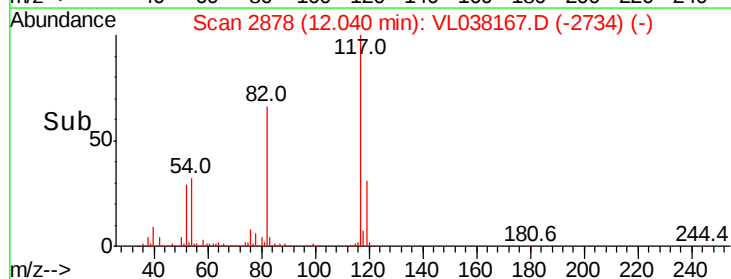
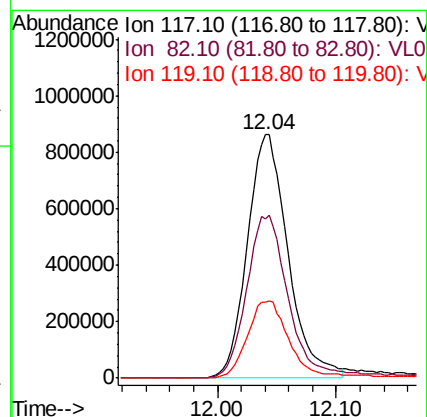
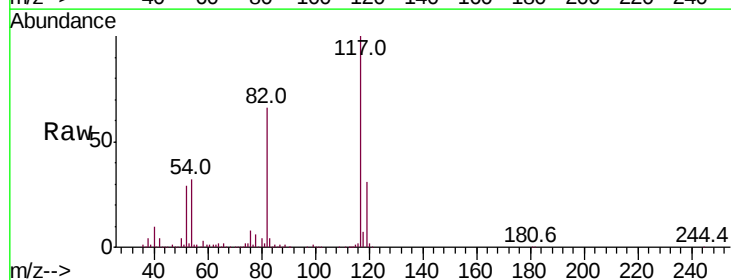
Tgt Ion: 117 Resp: 2043161

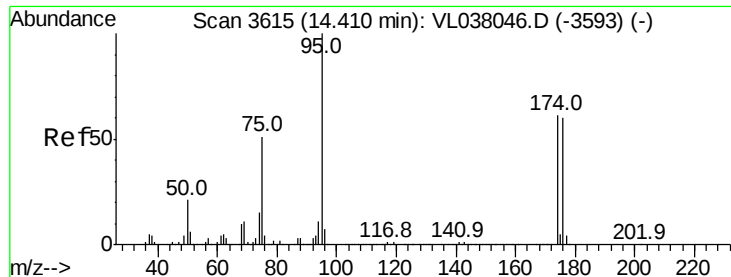
Ion Ratio Lower Upper

117 100

82 71.9 52.8 79.2

119 33.5 26.8 40.2





#68

1-Bromo-4-Fluorobenzene

Concen: 11.004 ppbv

RT: 14.37

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 15:29

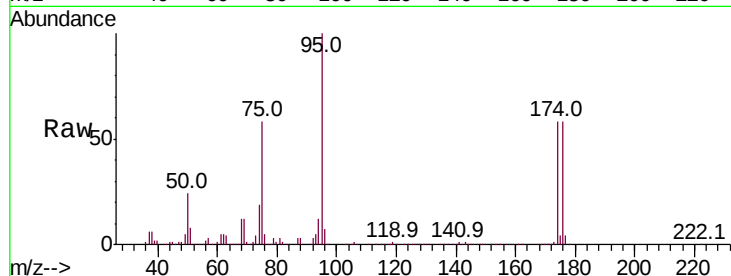
Tot Ion: 95 Resp: 1621689

Ion Ratio Lower Upper

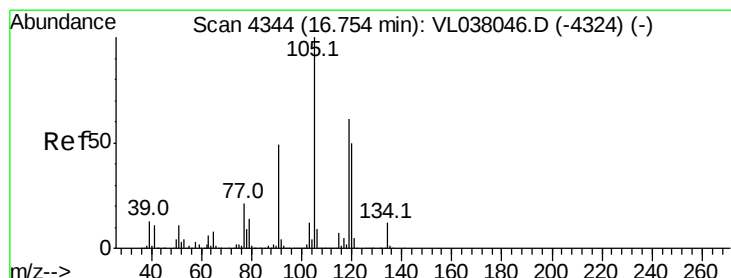
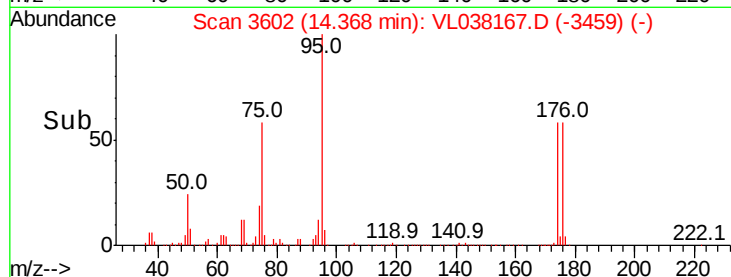
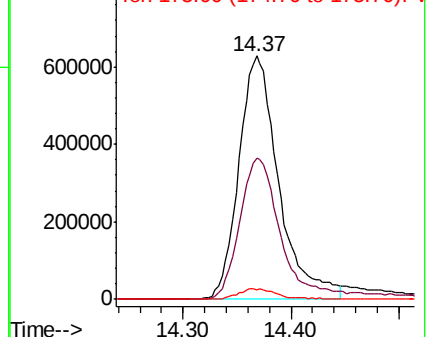
95 100

174 63.3 53.1 79.7

175 4.6 4.0 6.0



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



#74

1,2,4-Trimethylbenzene

Concen: 0.030 ppbv

RT: 16.70 min Scan# 4328

Delta R.T. -0.05 min

Lab File: VL038167.D

Acq: 14 Dec 2021 15:29

Tgt Ion: 105 Resp: 8673

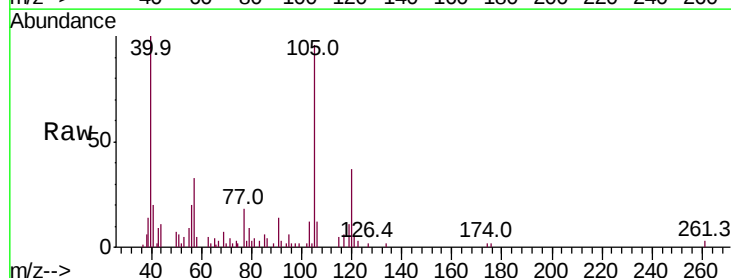
Ion Ratio Lower Upper

105 100

120 38.9 40.1 60.1#

91 13.6 39.8 59.8#

77 18.9 16.6 25.0



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0

