

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
 Data File : VL033878.D
 Acq On : 7 Jun 2019 4:36
 Operator : SY/AP
 Sample : VSTICC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 07 06:10:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 05:42:58 2019
 QLast Update : Fri Jun 07 05:42:58 2019
 Response via : Initial Calibration

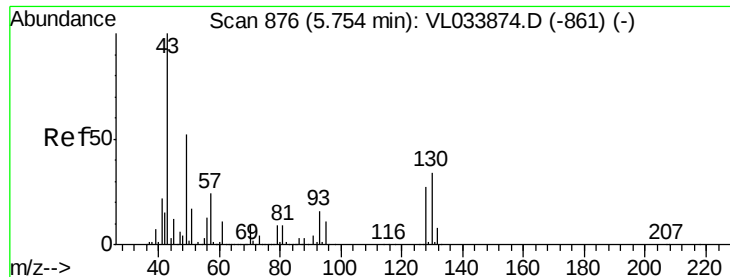
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	947915	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2178840	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2184561	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1848857	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	20059	0.105	ppbv 92
3) Chlorodifluoromethane	3.00	51	11699	0.107	ppbv 98
4) Chloromethane	3.16	50	3176	0.051	ppbv # 88
5) Vinyl Chloride	3.29	62	4851	0.076	ppbv 93
6) Bromomethane	3.50	94	1527	0.039	ppbv 95
7) Chloroethane	3.59	64	772	0.034	ppbv # 78
8) Dichlorotetrafluoroethane	3.21	85	15511	0.095	ppbv 96
9) Propene	3.03	41	4180	0.092	ppbv 99
11) Trichlorofluoromethane	3.99	101	22427	0.117	ppbv 86
12) 1,1,2-Trichlorotrifluoroet	4.53	101	4981	0.037	ppbv # 13
13) Ethanol	3.65	45	1901	0.130	ppbv # 37
15) Acetone	3.91	43	26750	0.204	ppbv 100
18) 1,1-Dichloroethene	4.34	96	3669	0.065	ppbv # 60
20) Methylene Chloride	4.40	84	8570	0.168	ppbv # 86
21) Allyl Chloride	4.47	41	6253	0.077	ppbv # 83
22) trans-1,2-Dichloroethene	4.96	96	5160	0.088	ppbv 84
24) 1,1-Dichloroethane	5.07	63	12453	0.094	ppbv # 95
25) Ethyl Acetate	5.77	43	19703	0.086	ppbv # 94
26) Hexane	5.76	57	3919	0.040	ppbv # 1
27) Carbon Disulfide	4.62	76	10044	0.074	ppbv # 30
28) Methyl tert-Butyl Ether	5.13	73	8912	0.055	ppbv 93
29) Chloroform	5.83	83	9299	0.051	ppbv 88
31) cis-1,2-Dichloroethene	5.63	61	4987	0.051	ppbv # 58
32) 1,1,1-Trichloroethane	6.60	97	8606	0.047	ppbv # 24
34) 2-Butanone	5.34	43	4569	0.034	ppbv # 53
35) Carbon Tetrachloride	7.12	117	16459	0.094	ppbv # 85
36) Benzene	6.99	78	6956	0.036	ppbv # 92
37) 1,2-Dichloroethane	6.40	62	4957	0.039	ppbv # 88
39) 1,2-Dichloropropane	7.28	63	579781	7.946	ppbv # 25
42) Bromodichloromethane	7.90	83	7318	0.042	ppbv # 92
43) Methyl Methacrylate	8.13	69	2388	0.033	ppbv # 22
47) 1,1,2-Trichloroethane	9.60	97	3724	0.045	ppbv # 37
49) Bromoform	13.18	173	3825	0.031	ppbv # 27
57) Chlorobenzene	12.29	112	14315	0.080	ppbv # 84
75) 1,3-Dichlorobenzene	17.15	146	6665	0.035	ppbv # 1
76) 1,4-Dichlorobenzene	17.29	146	9107	0.051	ppbv 67
78) Hexachloro-1,3-Butadiene	23.53	225	10802	0.081	ppbv # 31
80) Naphthalene,2-methyl-	25.12	142	8400	0.084	ppbv 94

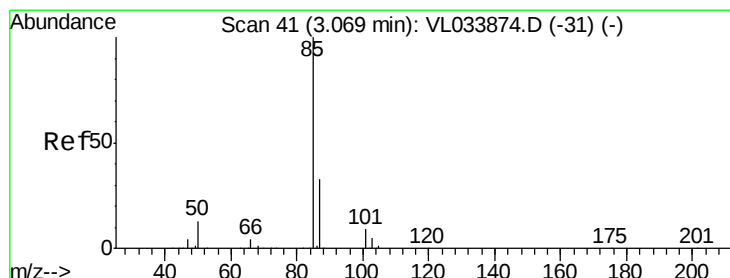
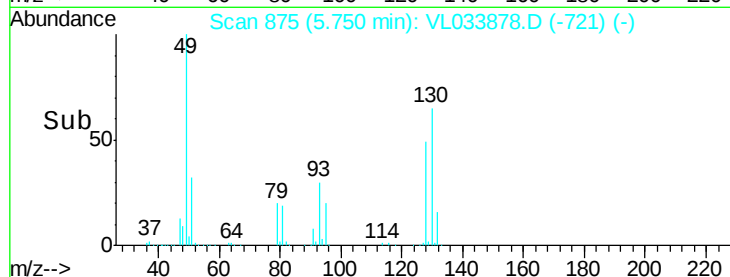
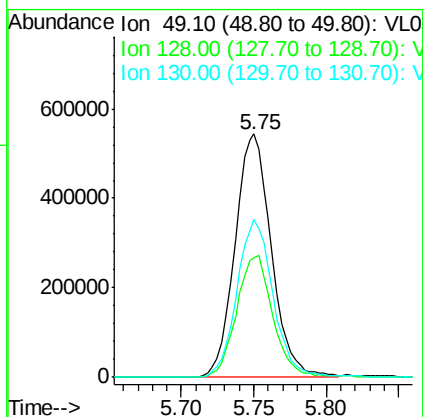
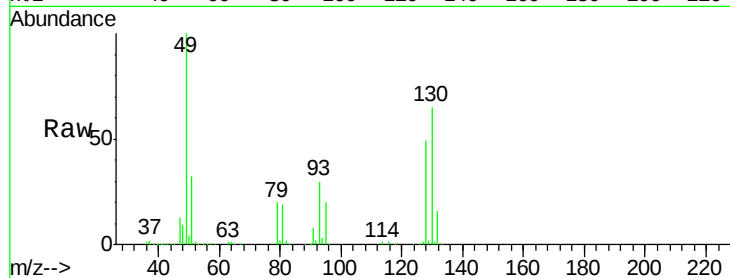
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.75 min Scan# 875
 Delta R.T. -0.00 min
 Lab File: VL033878.D
 Acq: 7 Jun 2019 4:36

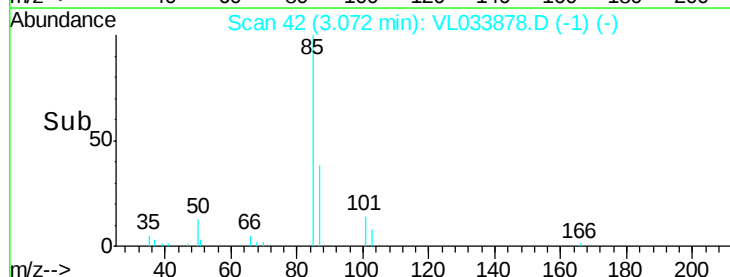
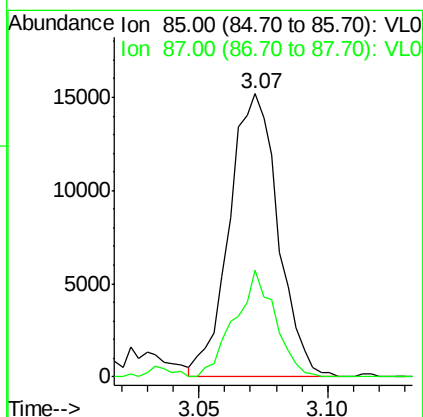
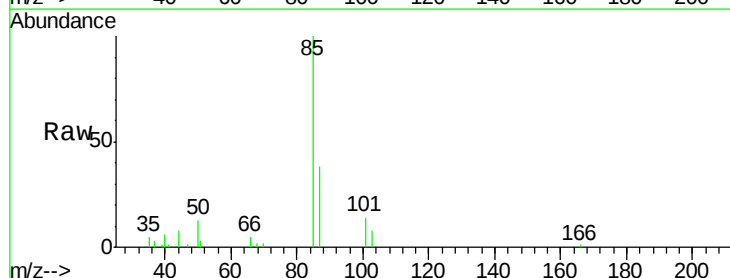
Instrument :
 MSVOA_L
 ClientSampleId :

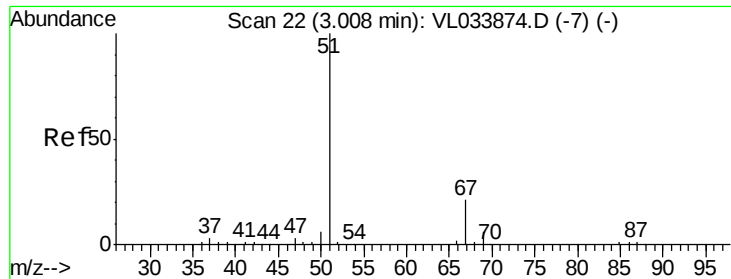
Tot Ion: 49 Resp: 947915
 Ion Ratio Lower Upper
 49 100
 128 50.3 25.5 76.5
 130 64.6 32.5 97.4



#2
 Dichlorodifluoromethane
 Concen: 0.105 ppbv
 RT: 3.07 min Scan# 42
 Delta R.T. 0.00 min
 Lab File: VL033878.D
 Acq: 7 Jun 2019 4:36

Tgt Ion: 85 Resp: 20059
 Ion Ratio Lower Upper
 85 100
 87 37.9 26.6 40.0

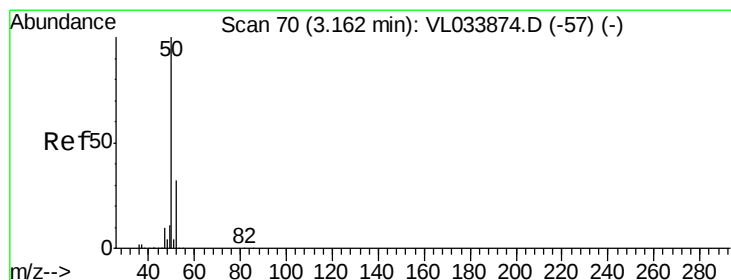
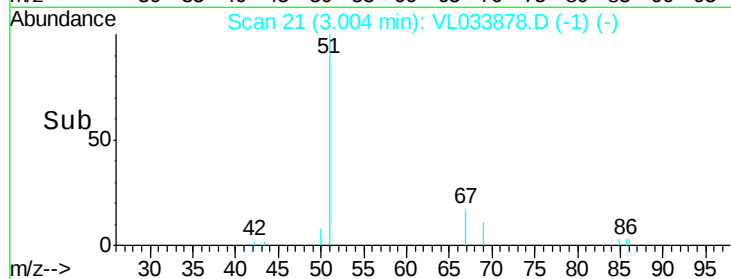
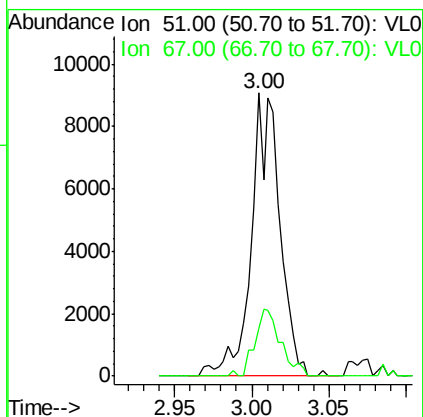
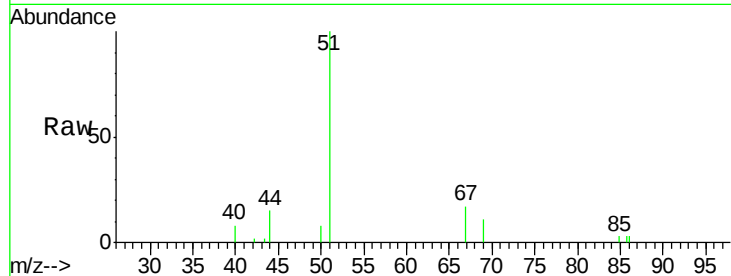




#3
 Chlorodifluoromethane
 Concen: 0.107 ppbv
 RT: 3.00 min Scan# 21
 Delta R.T. -0.00 min
 Lab File: VL033878.D
 Acq: 7 Jun 2019 4:36

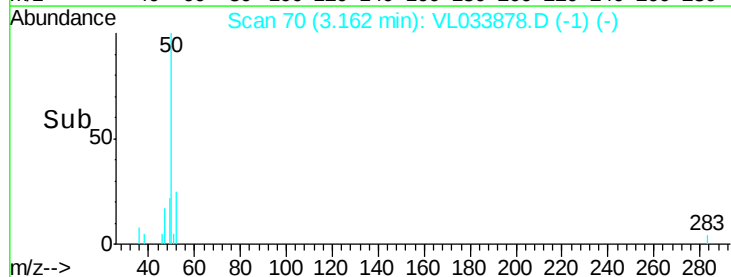
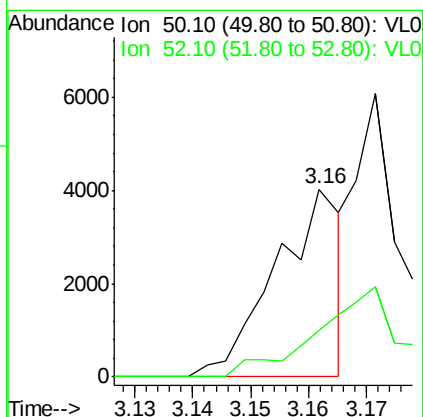
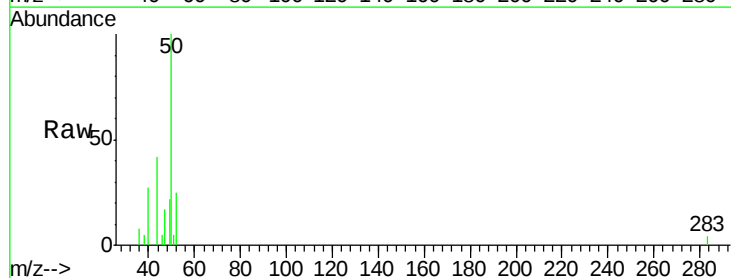
Instrument :
 MSVOA_L
 ClientSampleId :

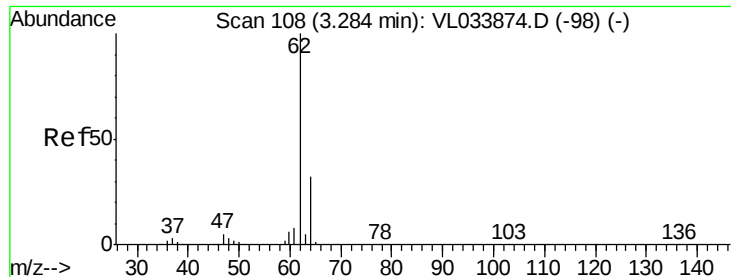
Tot Ion: 51 Resp: 11699
 Ion Ratio Lower Upper
 51 100
 67 21.5 16.4 24.6



#4
 Chloromethane
 Concen: 0.051 ppbv
 RT: 3.16 min Scan# 70
 Delta R.T. -0.00 min
 Lab File: VL033878.D
 Acq: 7 Jun 2019 4:36

Tgt Ion: 50 Resp: 3176
 Ion Ratio Lower Upper
 50 100
 52 25.1 25.4 38.0#





#5

Vinyl Chloride

Concen: 0.076 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

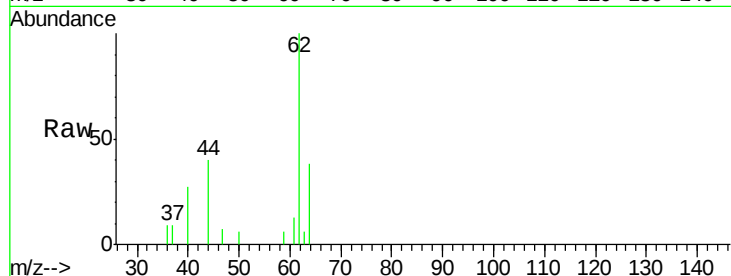
ClientSampled :

Tot Ion: 62 Resp: 4851

Ion Ratio Lower Upper

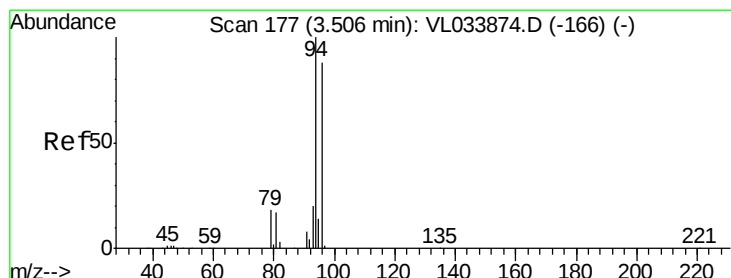
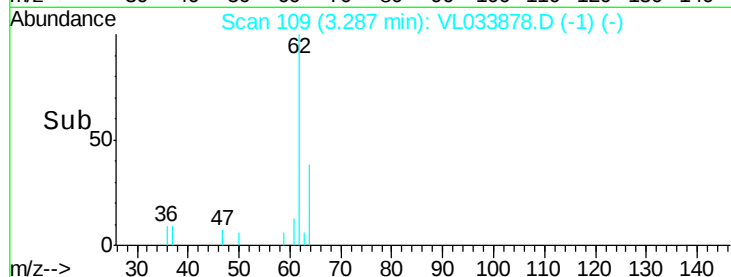
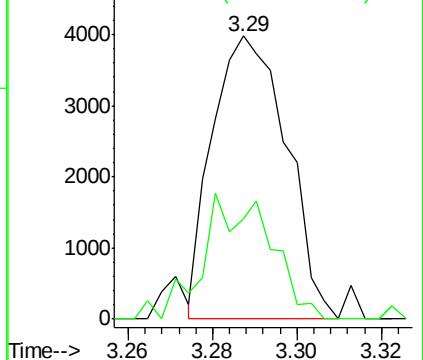
62 100

64 35.6 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.039 ppbv

RT: 3.50 min Scan# 176

Delta R.T. -0.00 min

Lab File: VL033878.D

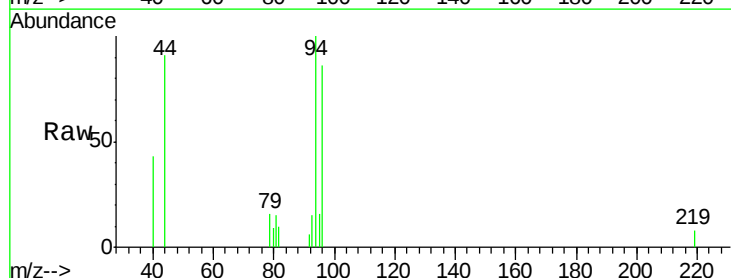
Acq: 7 Jun 2019 4:36

Tgt Ion: 94 Resp: 1527

Ion Ratio Lower Upper

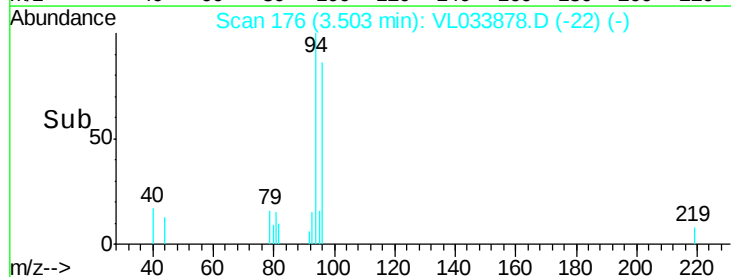
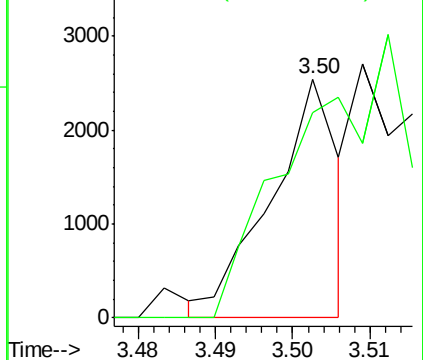
94 100

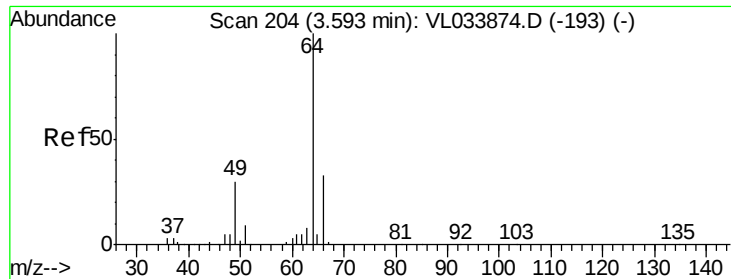
96 92.5 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.034 ppbv

RT: 3.59 min Scan# 204

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

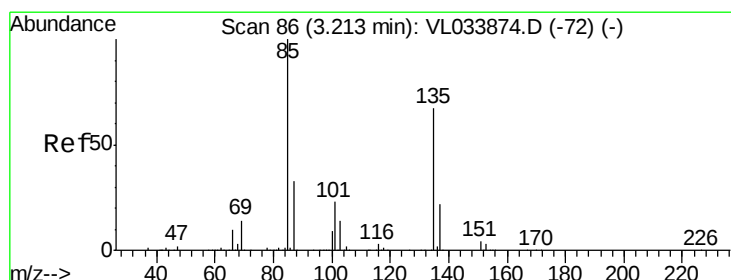
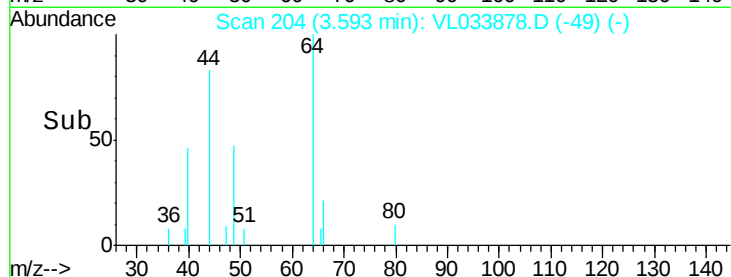
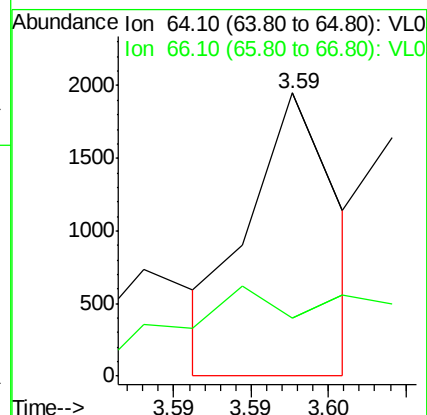
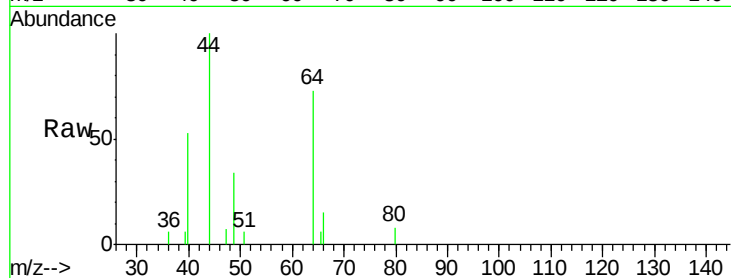
ClientSampled :

Tot Ion: 64 Resp: 772

Ion Ratio Lower Upper

64 100

66 20.6 26.7 40.1#



#8

Dichlorotetrafluoroethane

Concen: 0.095 ppbv

RT: 3.21 min Scan# 86

Delta R.T. -0.00 min

Lab File: VL033878.D

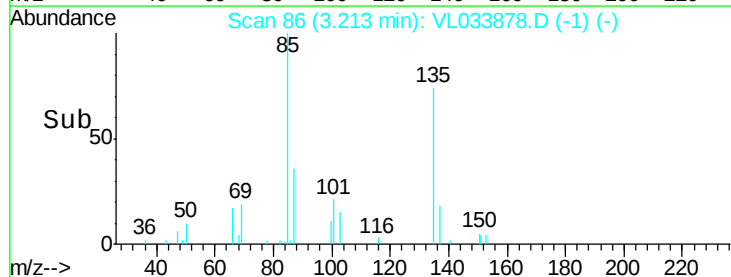
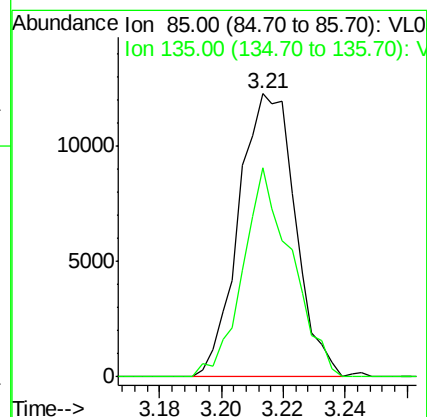
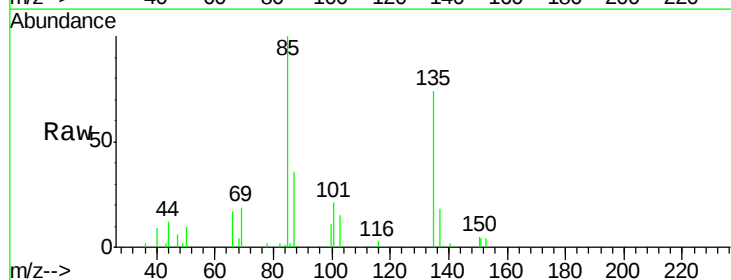
Acq: 7 Jun 2019 4:36

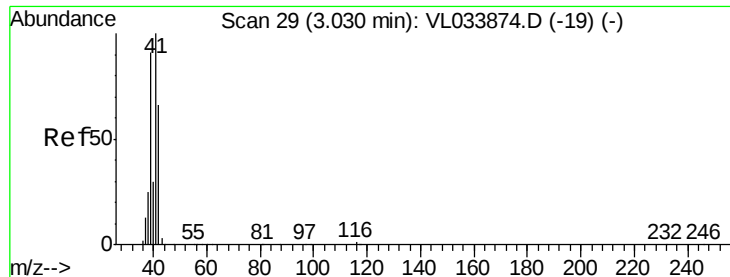
Tgt Ion: 85 Resp: 15511

Ion Ratio Lower Upper

85 100

135 64.0 53.7 80.5





#9

Propene

Concen: 0.092 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

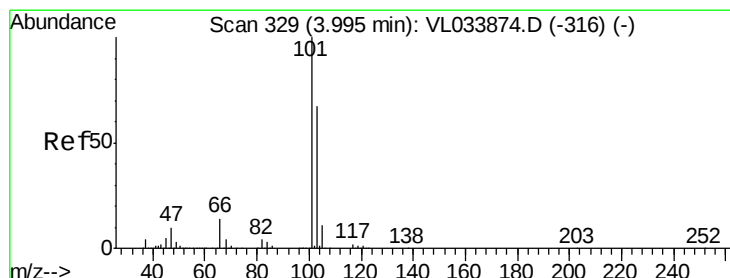
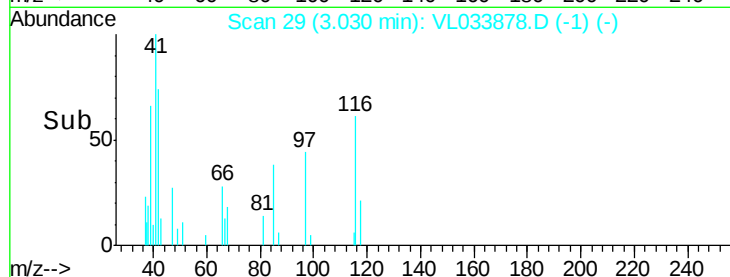
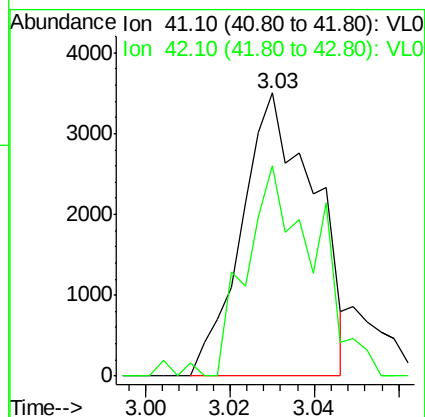
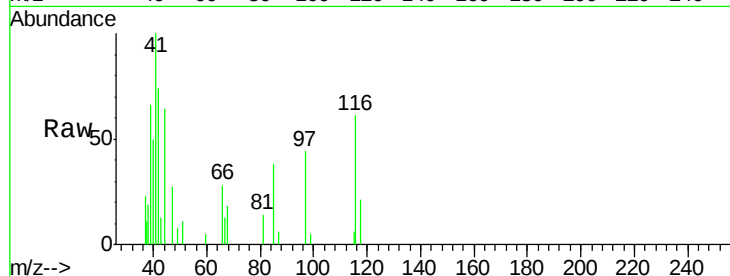
ClientSampleId :

Tot Ion: 41 Resp: 4180

Ion Ratio Lower Upper

41 100

42 71.5 56.3 84.5



#11

Trichlorofluoromethane

Concen: 0.117 ppbv

RT: 3.99 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL033878.D

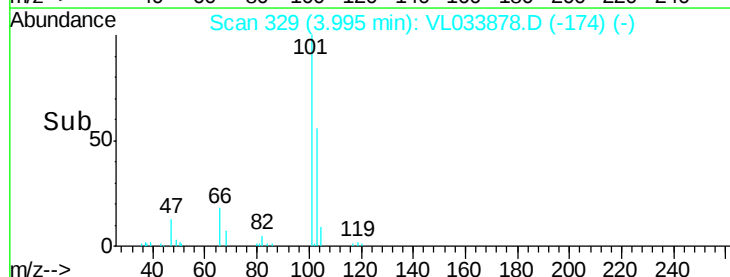
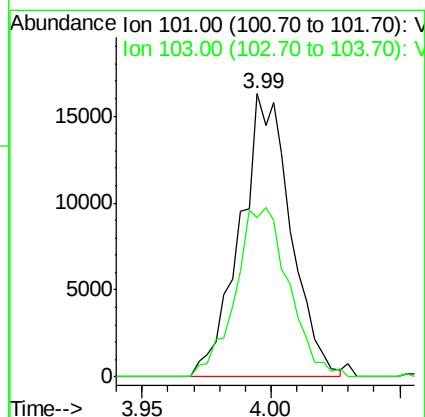
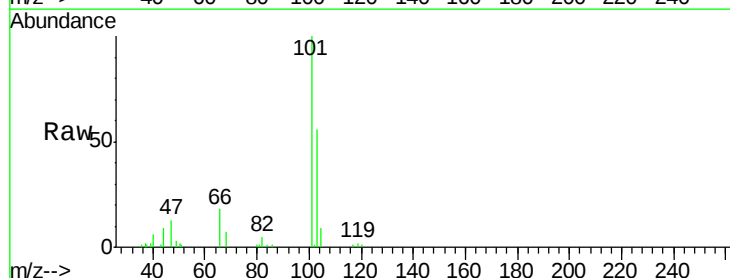
Acq: 7 Jun 2019 4:36

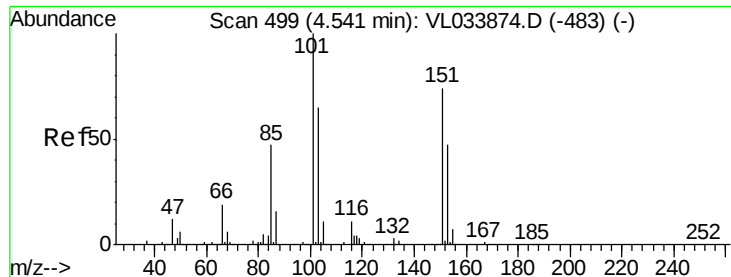
Tgt Ion: 101 Resp: 22427

Ion Ratio Lower Upper

101 100

103 56.2 53.6 80.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.037 ppbv

RT: 4.53 min Scan# 497

Delta R.T. -0.01 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

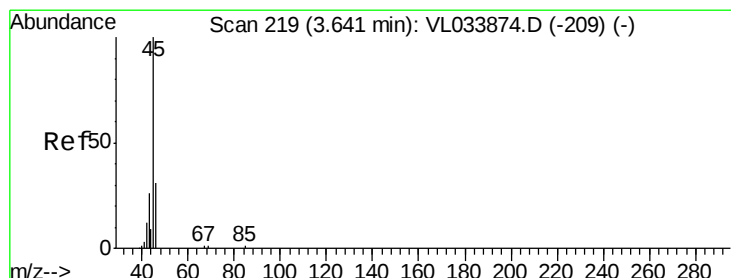
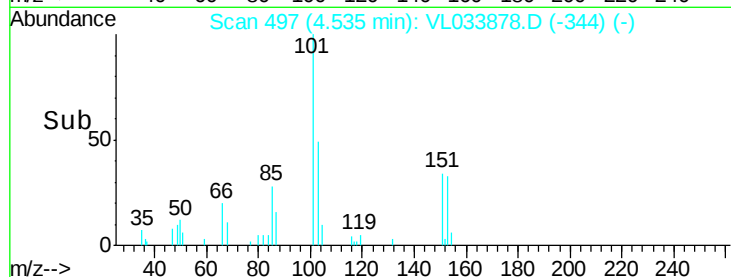
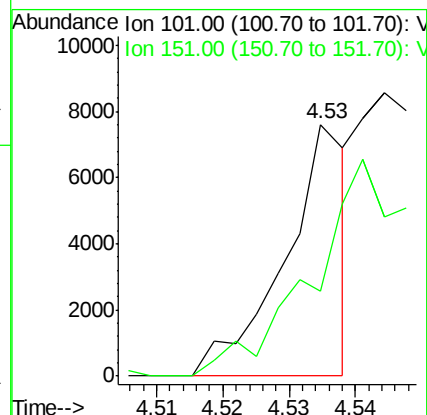
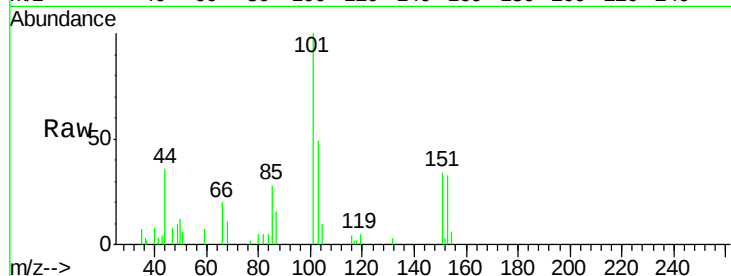
ClientSampleId :

Tot Ion:101 Resp: 4981

Ion Ratio Lower Upper

101 100

151 0.0 58.6 87.8#



#13

Ethanol

Concen: 0.130 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033878.D

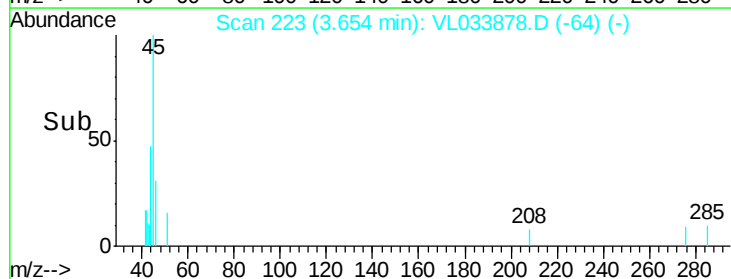
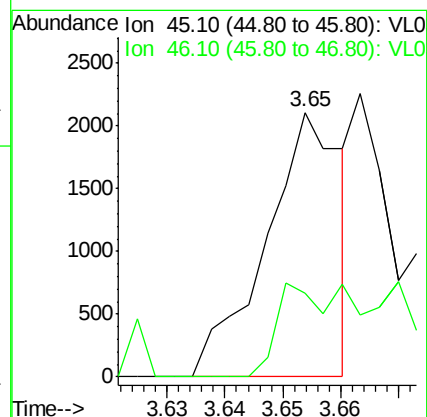
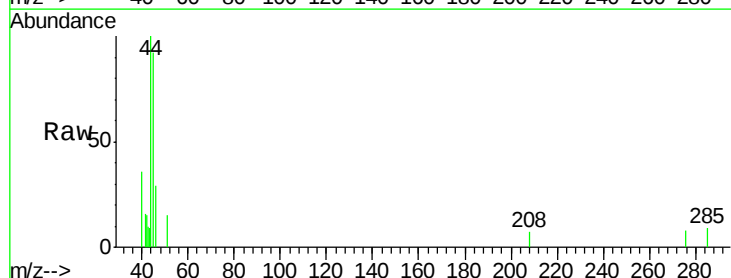
Acq: 7 Jun 2019 4:36

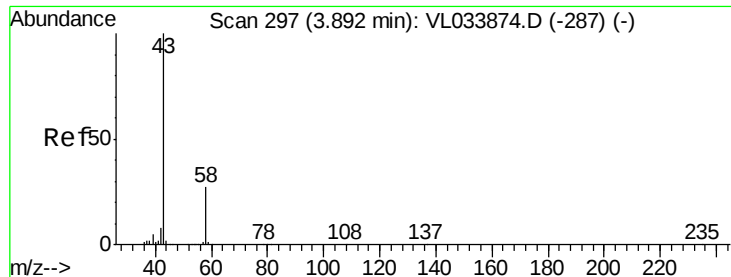
Tgt Ion: 45 Resp: 1901

Ion Ratio Lower Upper

45 100

46 0.0 15.3 61.1#





#15

Acetone

Concen: 0.204 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.02 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

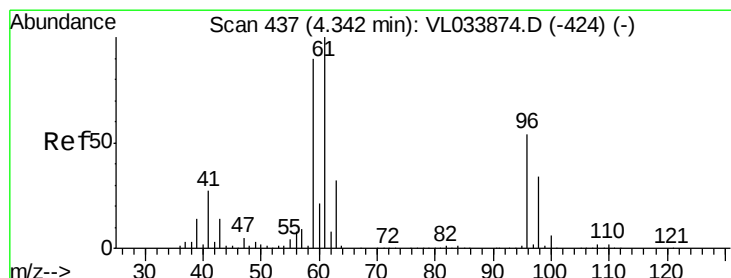
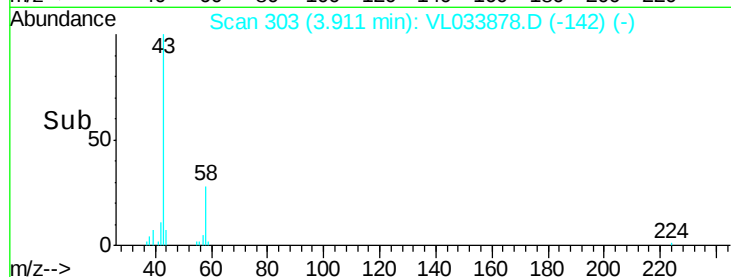
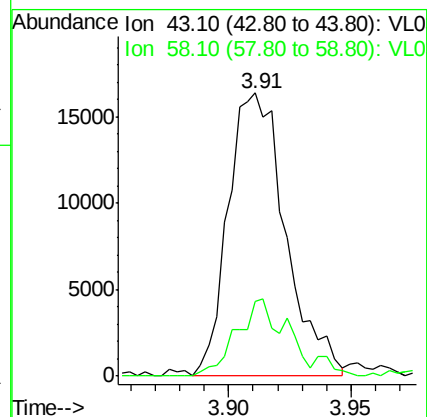
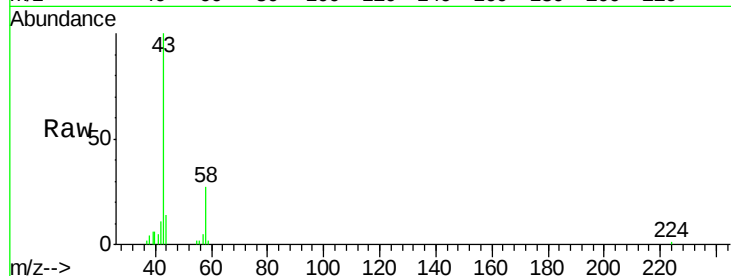
ClientSampleId :

Tot Ion: 43 Resp: 26750

Ion Ratio Lower Upper

43 100

58 26.4 21.3 31.9



#18

1,1-Dichloroethene

Concen: 0.065 ppbv

RT: 4.34 min Scan# 437

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

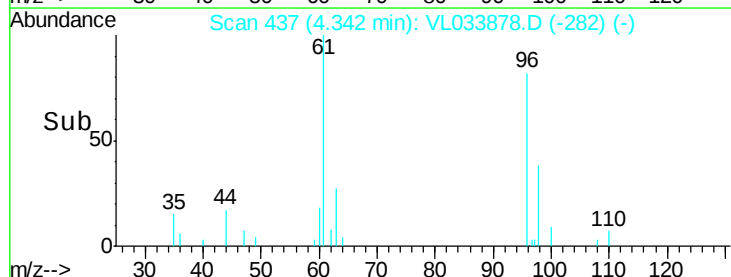
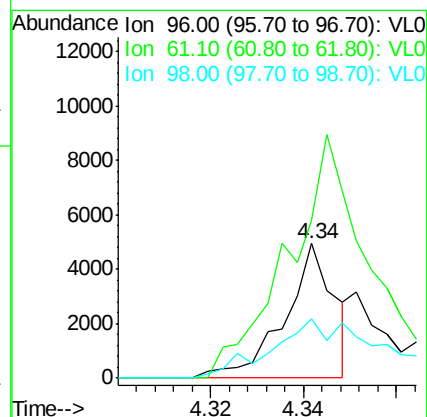
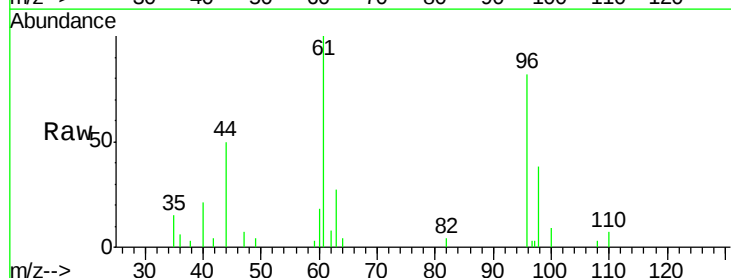
Tgt Ion: 96 Resp: 3669

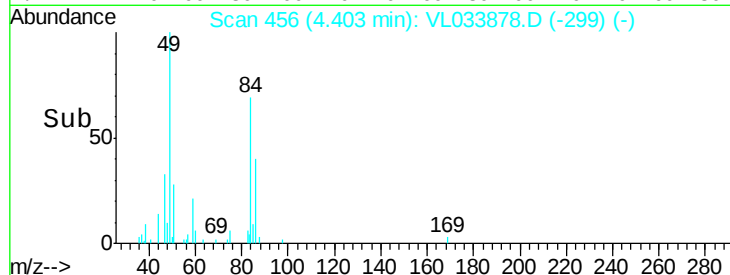
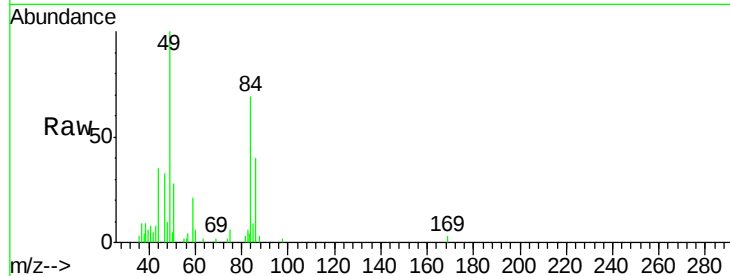
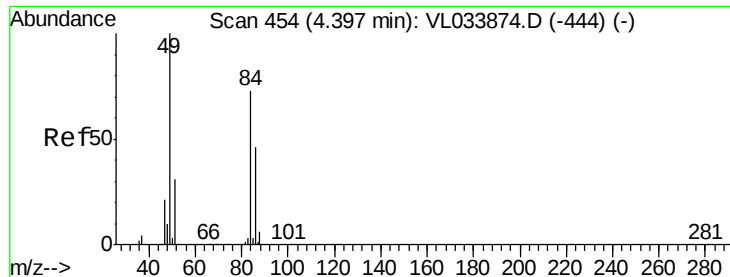
Ion Ratio Lower Upper

96 100

61 117.5 147.0 220.6#

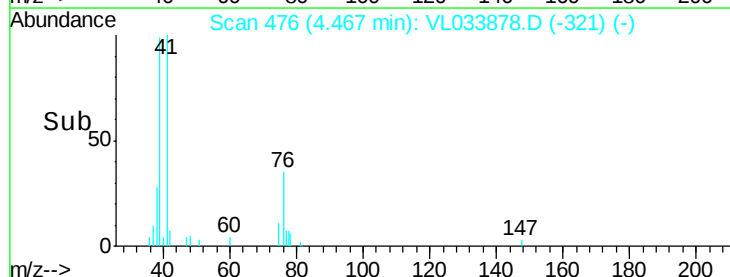
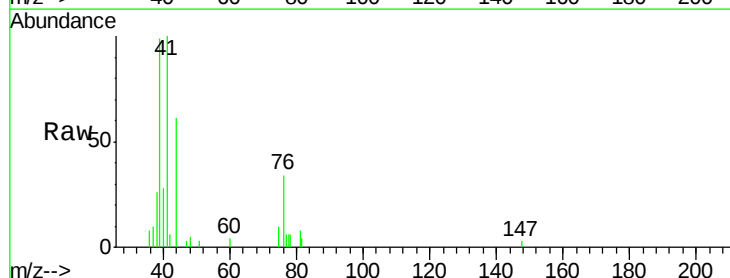
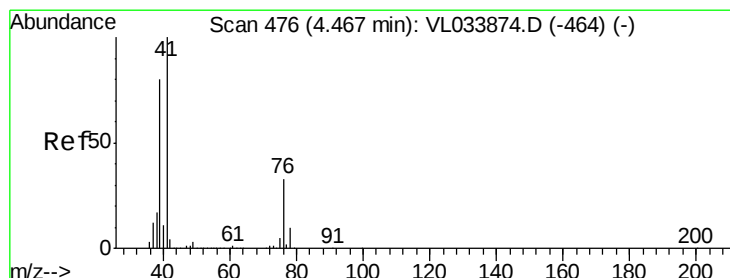
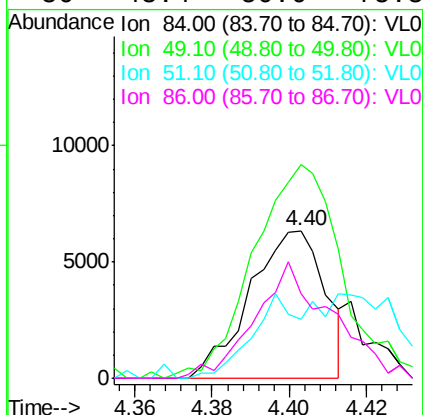
98 44.4 49.4 74.0#





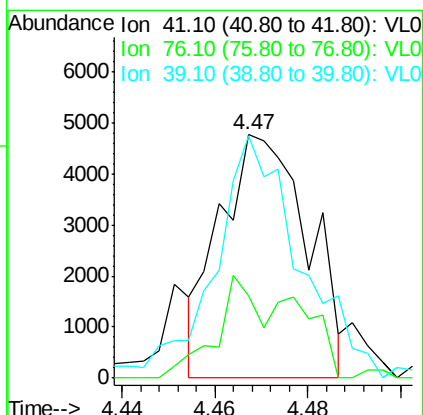
#20
Methylene Chloride
Concen: 0.168 ppbv
RT: 4.40 min Scan# 456
Delta R.T. 0.01 min
Lab File: VL033878.D
Acq: 7 Jun 2019 4:36

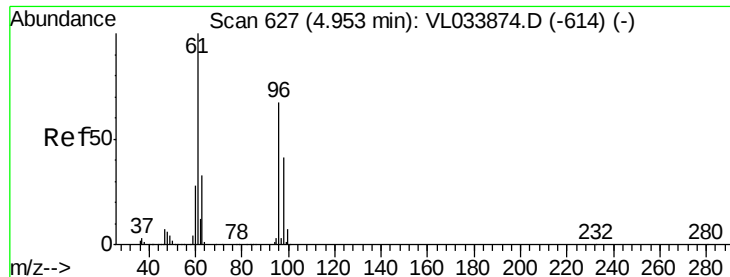
Tot Ion: 84 Resp: 8570
Ion Ratio Lower Upper
84 100
49 121.8 110.0 165.0
51 35.4 34.6 51.8
86 48.4 50.6 75.8#



#21
Allyl Chloride
Concen: 0.077 ppbv
RT: 4.47 min Scan# 476
Delta R.T. -0.00 min
Lab File: VL033878.D
Acq: 7 Jun 2019 4:36

Tgt Ion: 41 Resp: 6253
Ion Ratio Lower Upper
41 100
76 38.0 26.6 39.8
39 99.4 65.2 97.8#





#22

trans-1,2-Dichloroethene

Concen: 0.088 ppbv

RT: 4.96 min Scan# 628

Delta R.T. 0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

ClientSampleId :

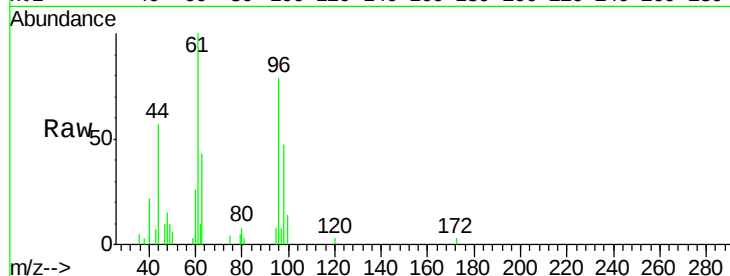
Tot Ion: 96 Resp: 5160

Ion Ratio Lower Upper

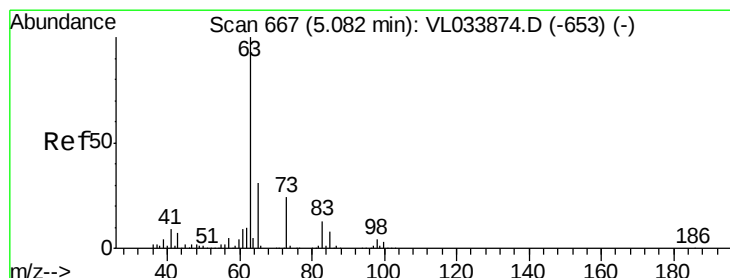
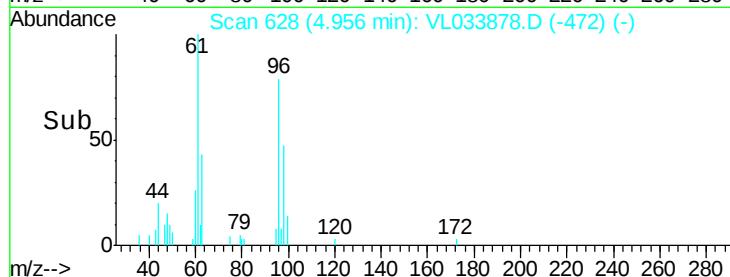
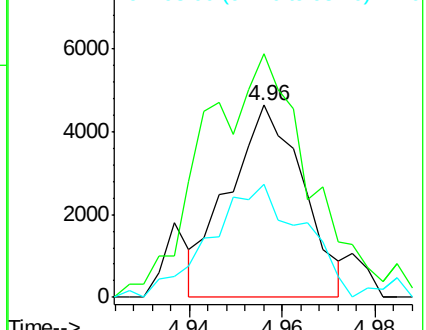
96 100

61 121.3 119.0 178.6

98 59.4 48.3 72.5



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#24

1,1-Dichloroethane

Concen: 0.094 ppbv

RT: 5.07 min Scan# 665

Delta R.T. -0.01 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

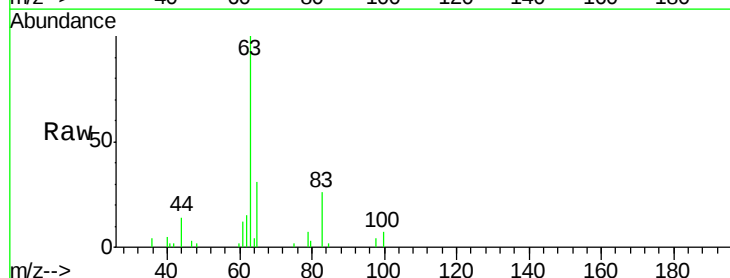
Tgt Ion: 63 Resp: 12453

Ion Ratio Lower Upper

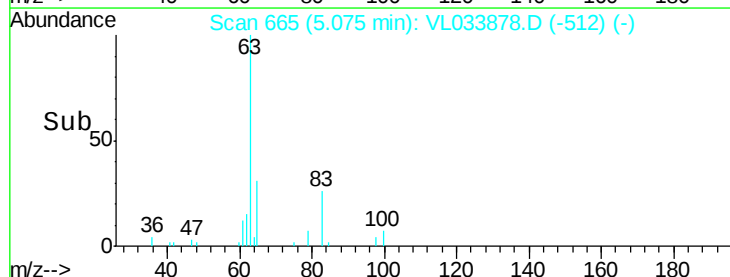
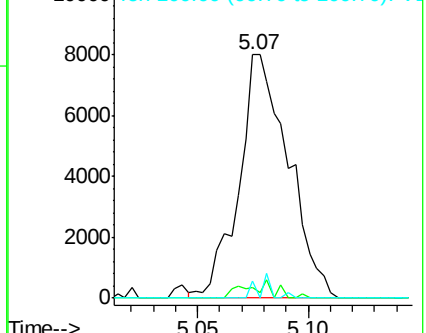
63 100

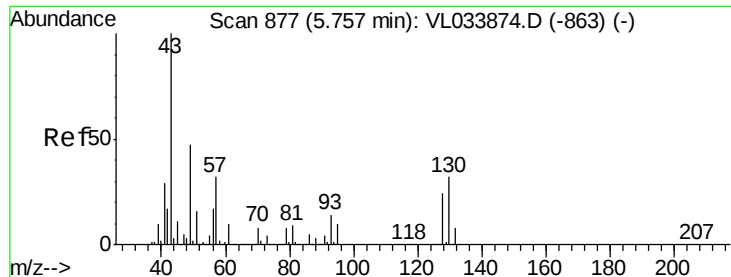
98 4.3 2.2 6.6

100 6.8 1.3 3.8#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.086 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.01 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 19703

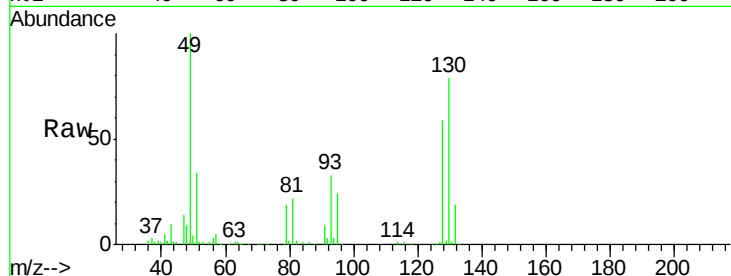
Ion Ratio Lower Upper

43 100

45 11.5 7.9 11.9

61 7.2 7.8 11.6#

70 5.2 5.8 8.6#

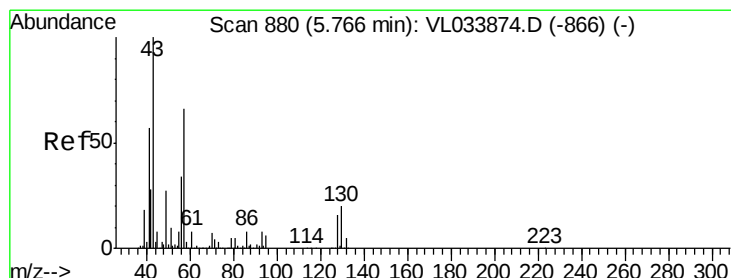
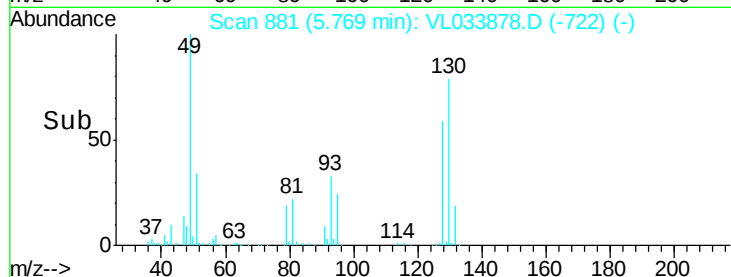
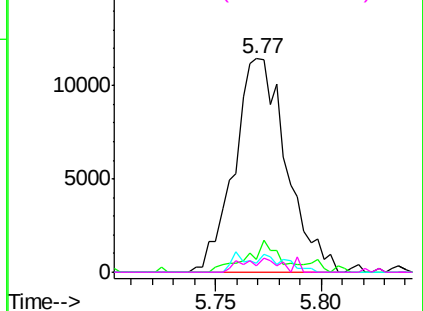


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.040 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Tgt Ion: 57 Resp: 3919

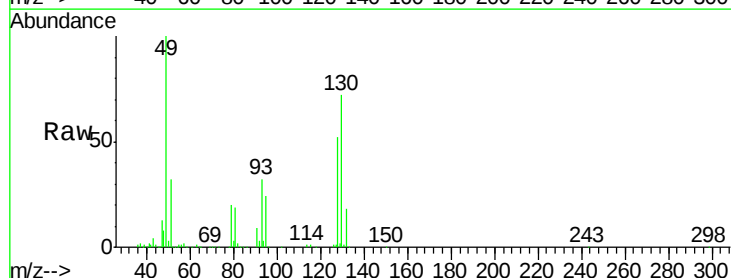
Ion Ratio Lower Upper

57 100

41 0.0 71.4 107.2#

43 0.0 183.7 275.5#

56 0.0 42.7 64.1#

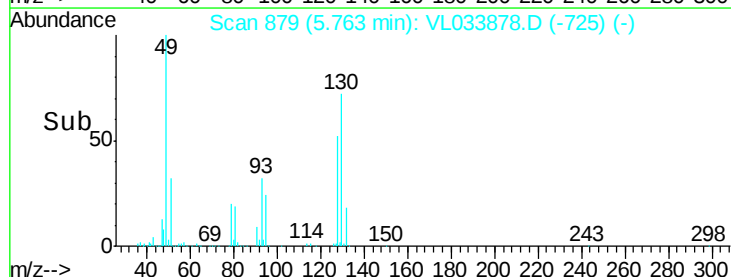
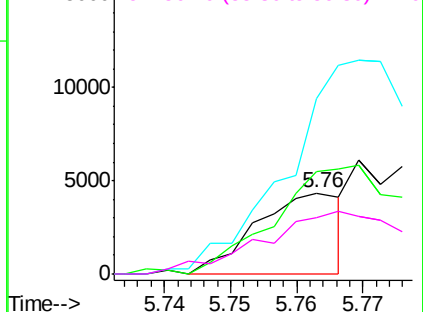


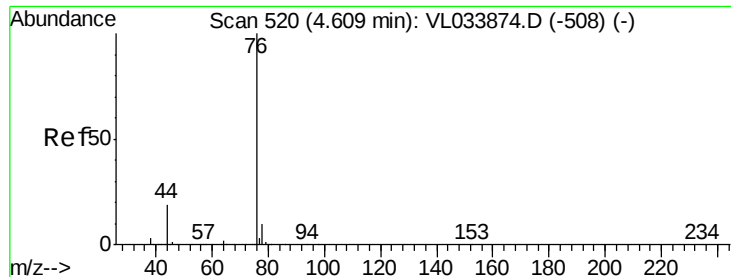
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.074 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.01 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

ClientSampleId :

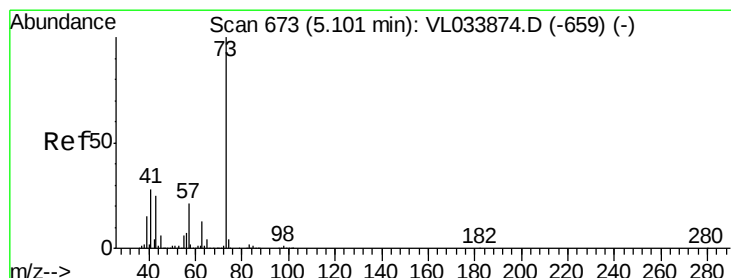
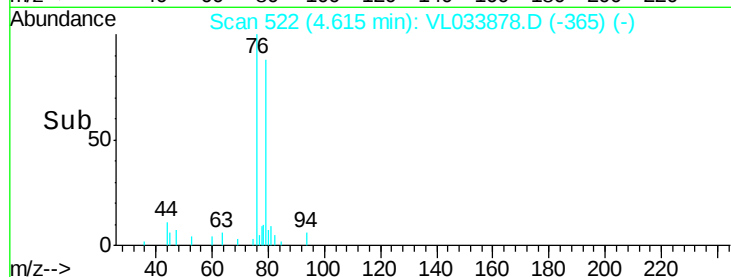
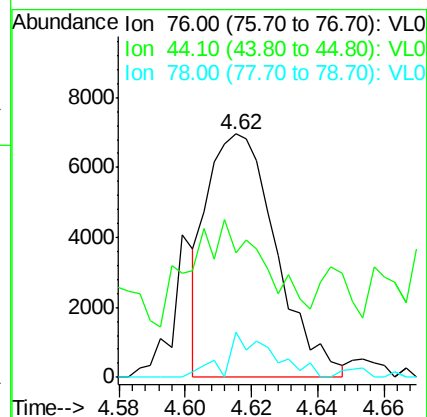
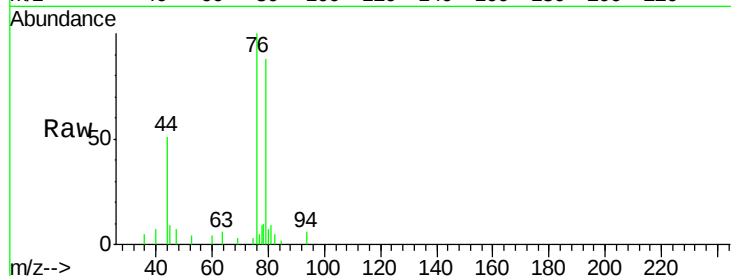
Tot Ion: 76 Resp: 10044

Ion Ratio Lower Upper

76 100

44 62.4 14.4 21.6#

78 14.1 7.5 11.3#



#28

Methyl tert-Butyl Ether

Concen: 0.055 ppbv

RT: 5.13 min Scan# 681

Delta R.T. 0.03 min

Lab File: VL033878.D

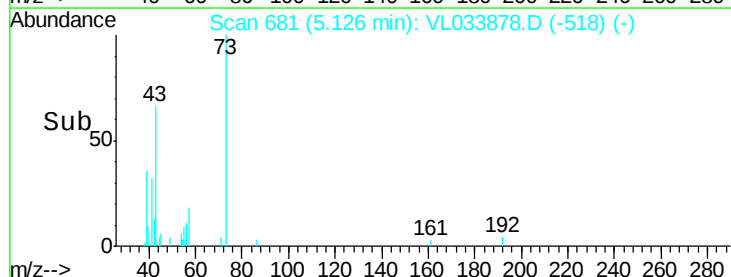
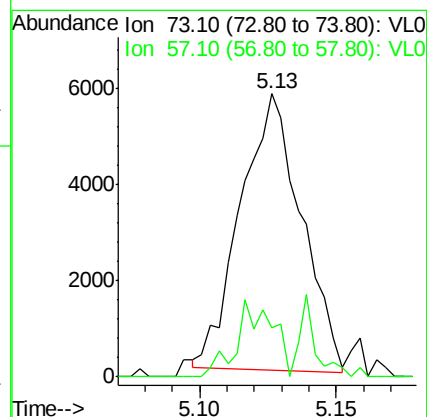
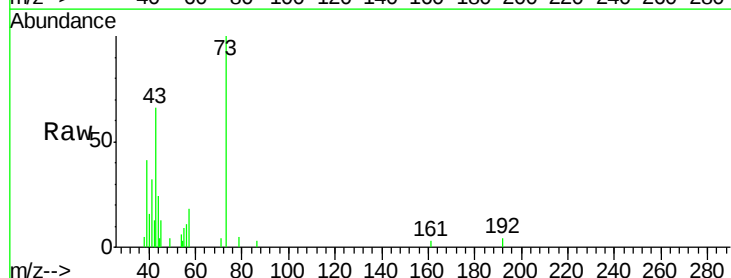
Acq: 7 Jun 2019 4:36

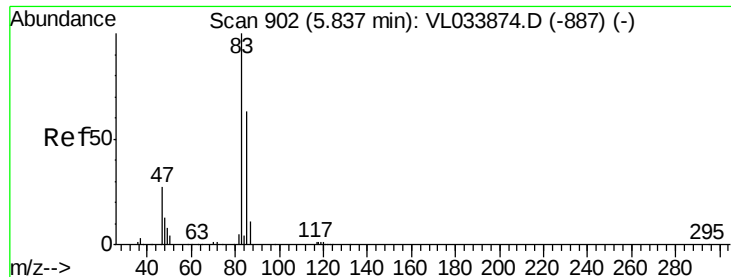
Tgt Ion: 73 Resp: 8912

Ion Ratio Lower Upper

73 100

57 24.9 17.2 25.8

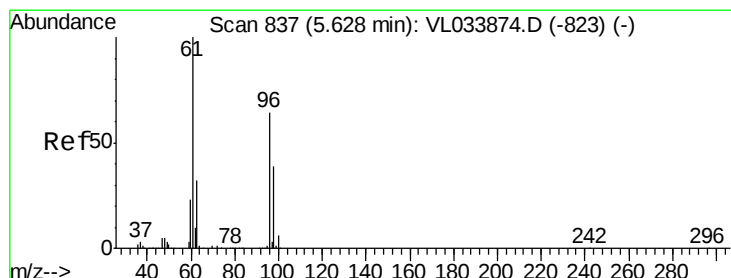
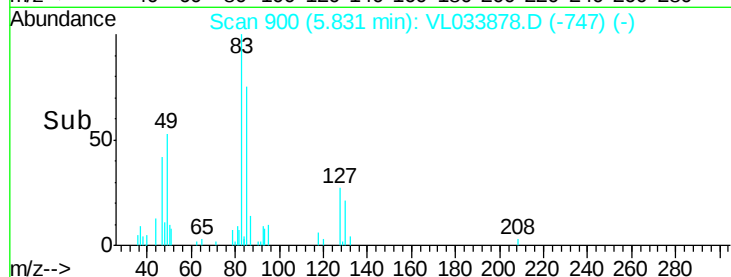
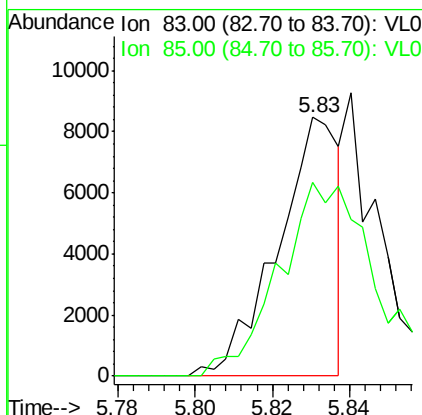
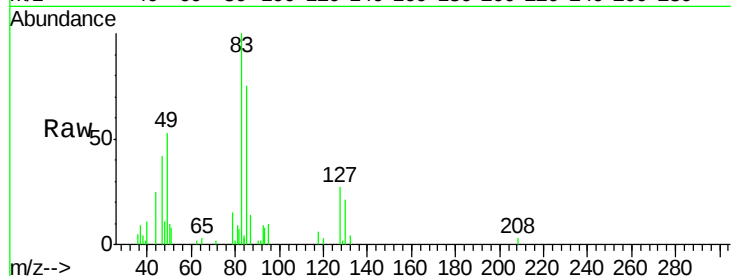




#29
Chloroform
Concen: 0.051 ppbv
RT: 5.83 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL033878.D
Acq: 7 Jun 2019 4:36

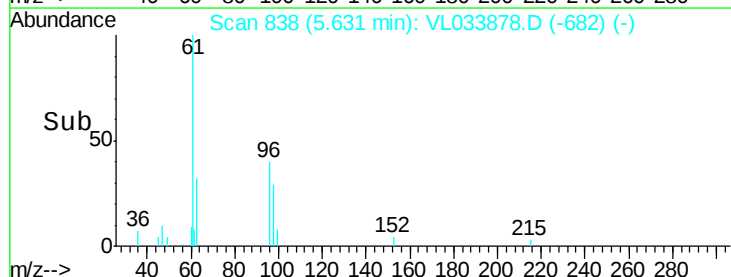
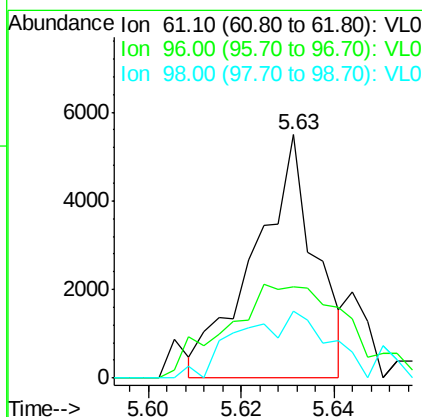
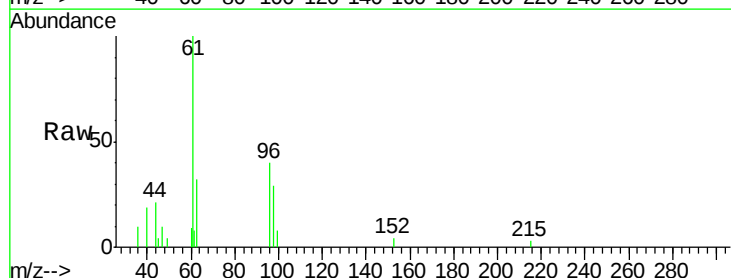
Instrument :
MSVOA_L
ClientSampleId :

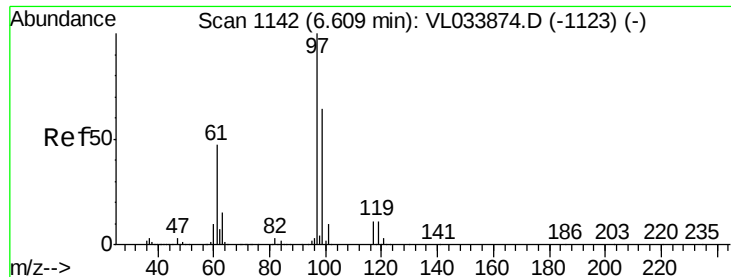
Tot Ion: 83 Resp: 9299
Ion Ratio Lower Upper
83 100
85 72.6 50.5 75.7



#31
cis-1,2-Dichloroethene
Concen: 0.051 ppbv
RT: 5.63 min Scan# 838
Delta R.T. 0.00 min
Lab File: VL033878.D
Acq: 7 Jun 2019 4:36

Tgt Ion: 61 Resp: 4987
Ion Ratio Lower Upper
61 100
96 22.2 50.9 76.3#
98 24.6 31.4 47.2#





#32

1,1,1-Trichloroethane

Concen: 0.047 ppbv

RT: 6.60 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

ClientSampleId :

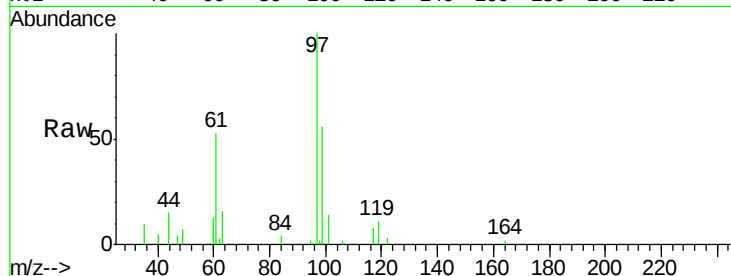
Tot Ion: 97 Resp: 8606

Ion Ratio Lower Upper

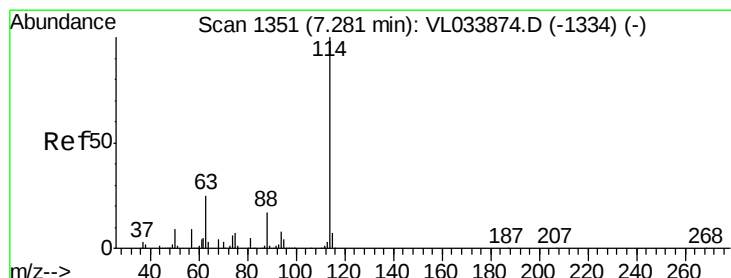
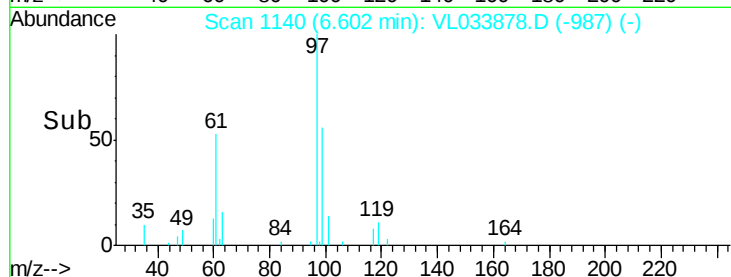
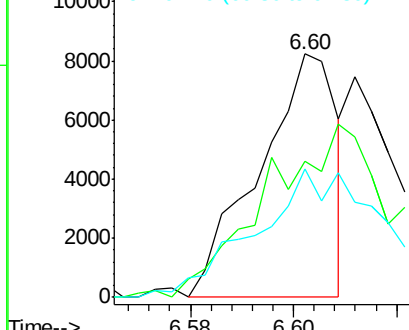
97 100

99 0.0 51.7 77.5#

61 92.2 37.7 56.5#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

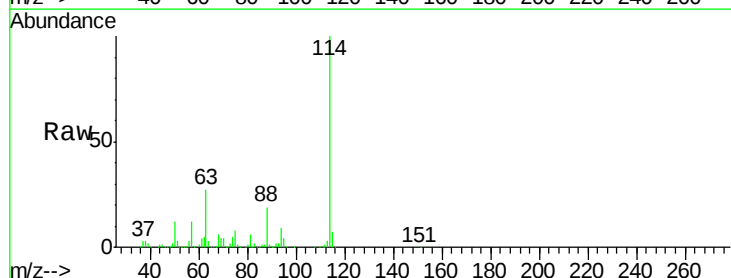
Tgt Ion: 114 Resp: 2178840

Ion Ratio Lower Upper

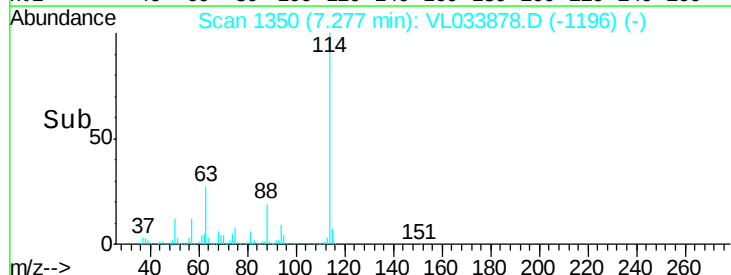
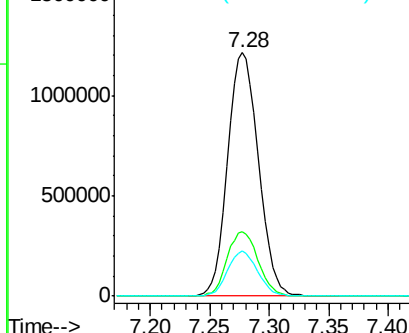
114 100

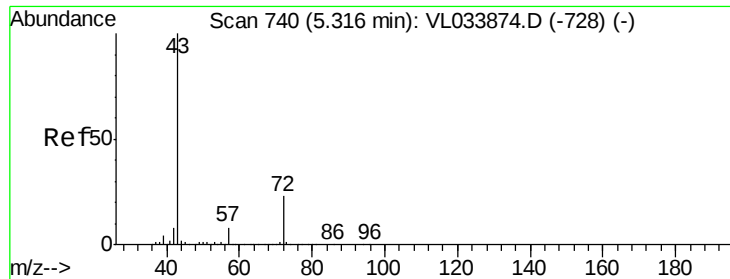
63 26.8 21.1 31.7

88 18.0 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

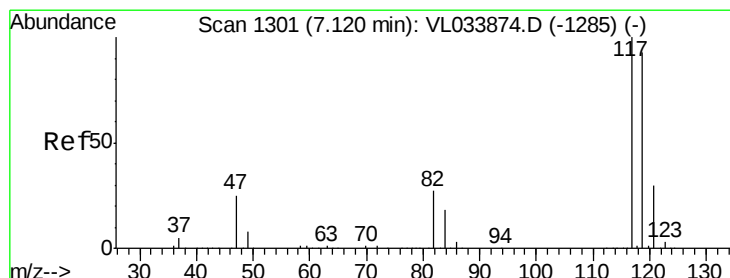
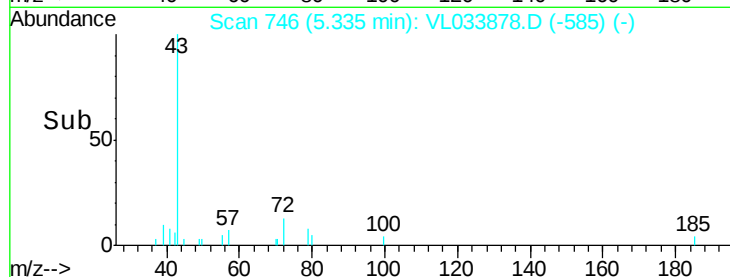
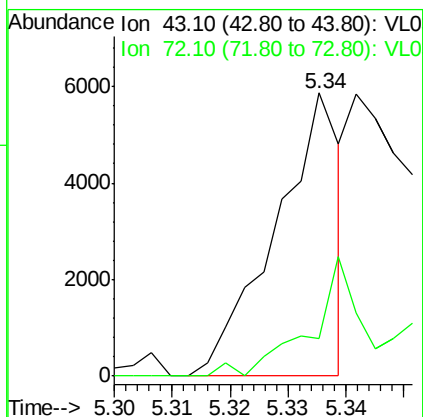
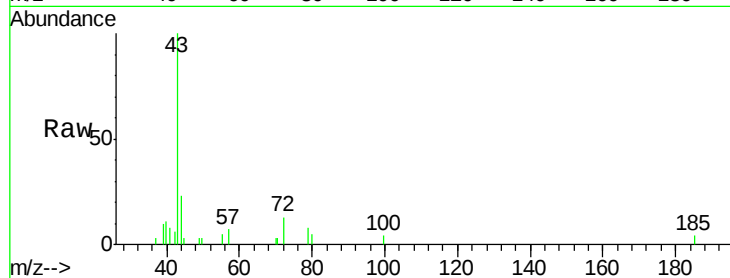




#34
2-Butanone
Concen: 0.034 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.02 min
Lab File: VL033878.D
Acq: 7 Jun 2019 4:36

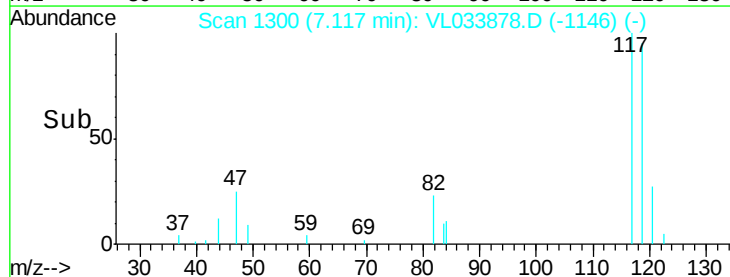
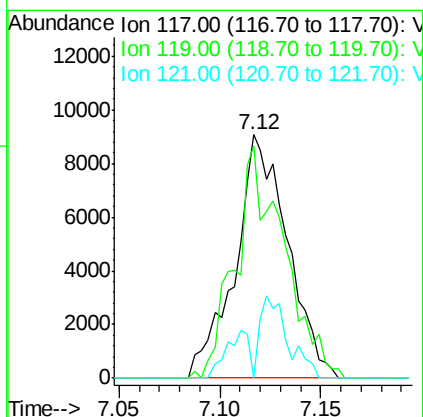
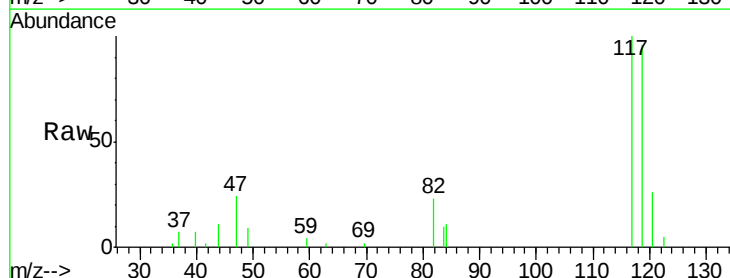
Instrument :
MSVOA_L
ClientSampleId :

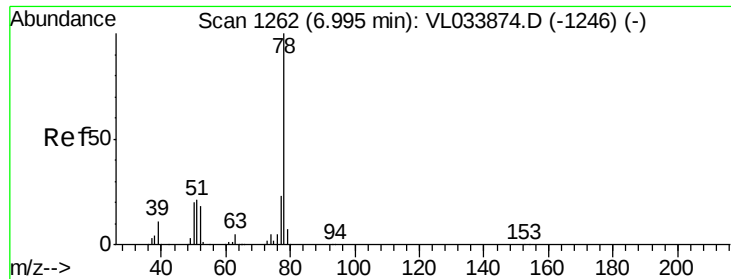
Tot Ion: 43 Resp: 4569
Ion Ratio Lower Upper
43 100
72 0.0 17.9 26.9#



#35
Carbon Tetrachloride
Concen: 0.094 ppbv
RT: 7.12 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VL033878.D
Acq: 7 Jun 2019 4:36

Tgt Ion: 117 Resp: 16459
Ion Ratio Lower Upper
117 100
119 95.6 74.6 111.8
121 0.0 24.0 36.0#





#36

Benzene

Concen: 0.036 ppbv

RT: 6.99 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

ClientSampleId :

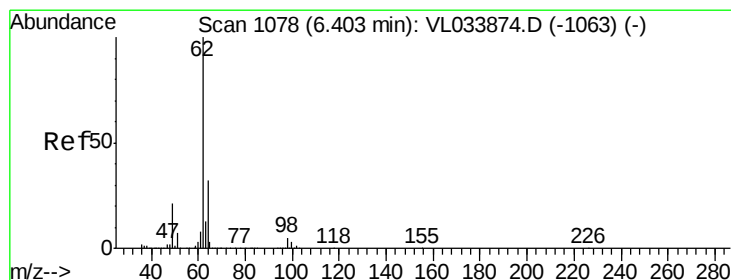
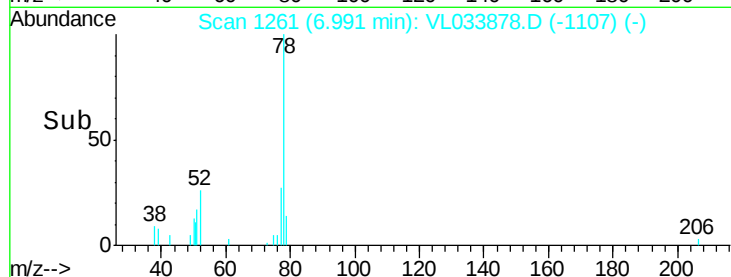
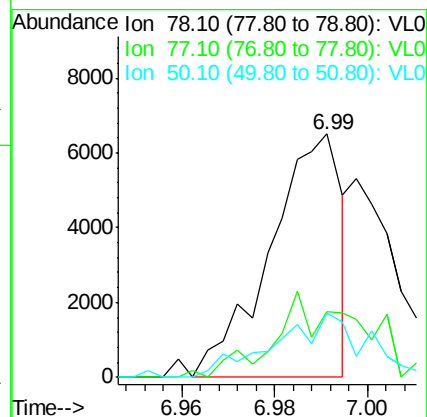
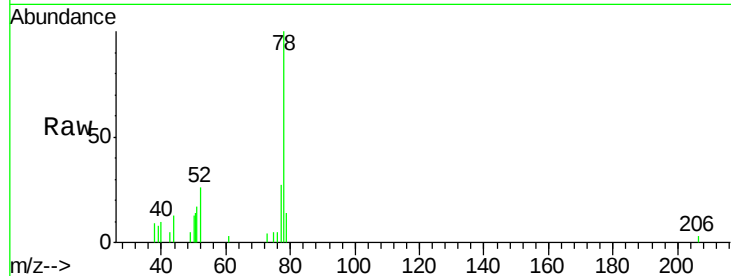
Tot Ion: 78 Resp: 6956

Ion Ratio Lower Upper

78 100

77 24.2 18.2 27.2

50 26.4 15.9 23.9#



#37

1,2-Dichloroethane

Concen: 0.039 ppbv

RT: 6.40 min Scan# 1078

Delta R.T. -0.00 min

Lab File: VL033878.D

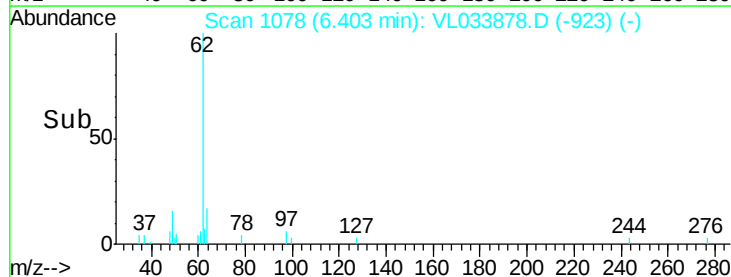
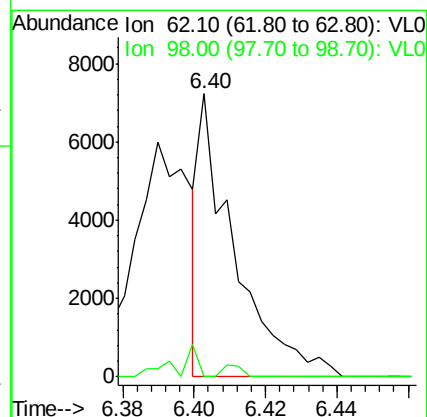
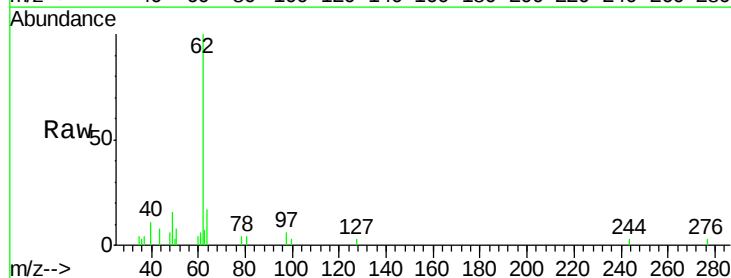
Acq: 7 Jun 2019 4:36

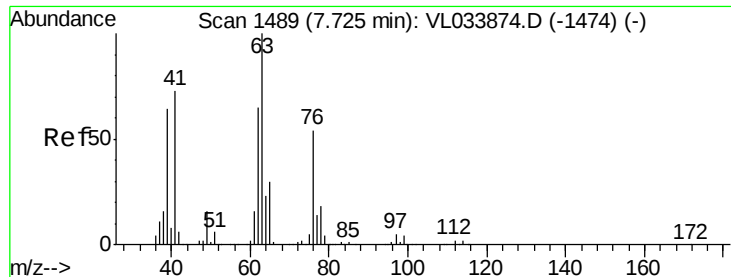
Tgt Ion: 62 Resp: 4957

Ion Ratio Lower Upper

62 100

98 8.8 4.0 6.0#

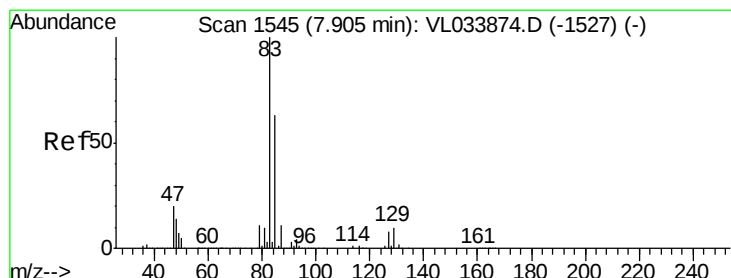
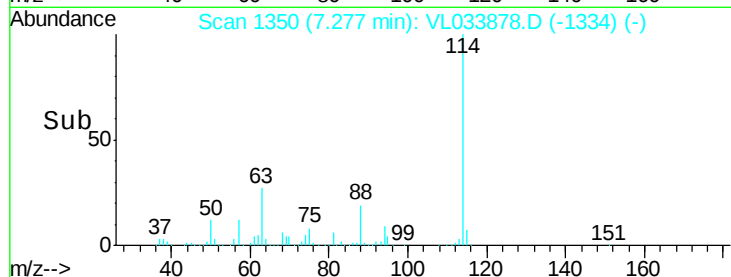
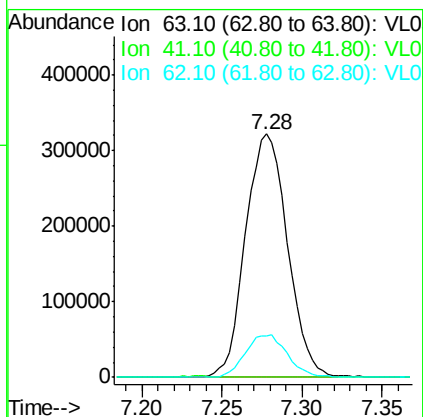
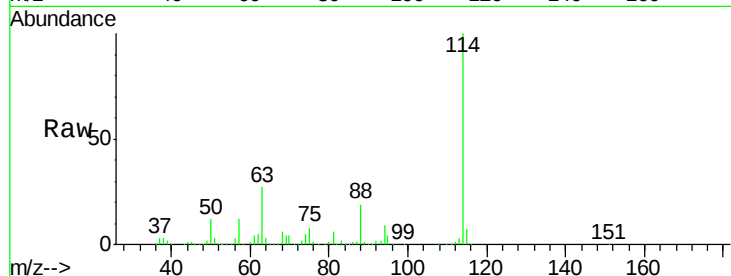




#39
 1,2-Dichloropropane
 Concen: 7.946 ppbv
 RT: 7.28 min Scan# 1350
 Delta R.T. -0.45 min
 Lab File: VL033878.D
 Acq: 7 Jun 2019 4:36

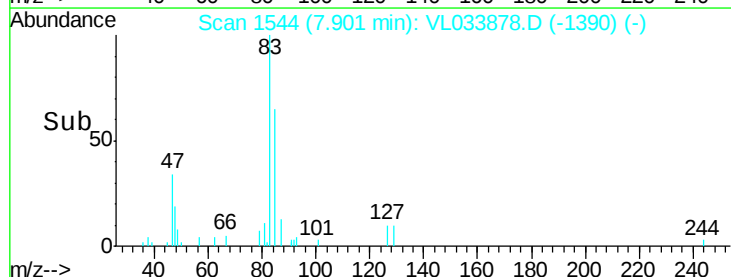
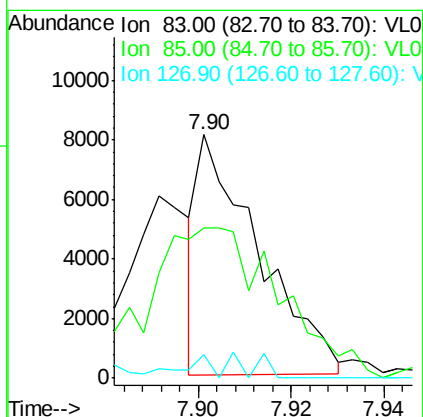
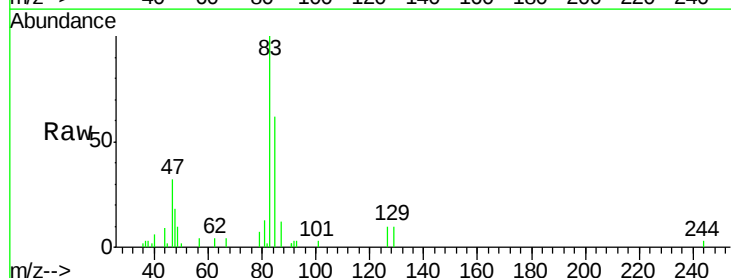
Instrument :
 MSVOA_L
 ClientSampleId :

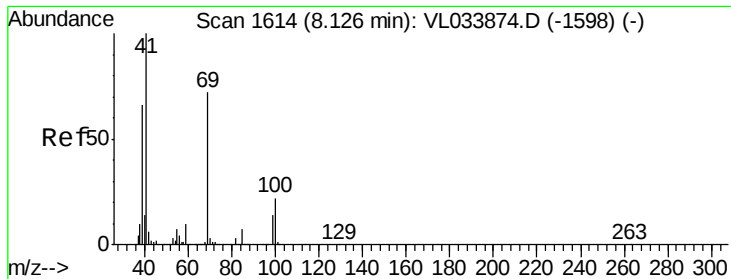
Tot Ion: 63 Resp: 579781
 Ion Ratio Lower Upper
 63 100
 41 0.0 58.7 88.1#
 62 17.0 51.9 77.9#



#42
 Bromodichloromethane
 Concen: 0.042 ppbv
 RT: 7.90 min Scan# 1544
 Delta R.T. -0.00 min
 Lab File: VL033878.D
 Acq: 7 Jun 2019 4:36

Tgt Ion: 83 Resp: 7318
 Ion Ratio Lower Upper
 83 100
 85 56.4 50.2 75.2
 127 10.3 6.5 9.7#

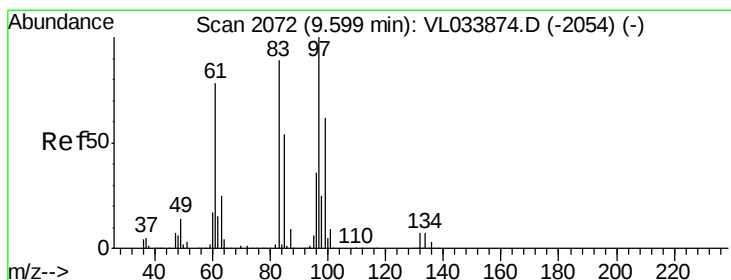
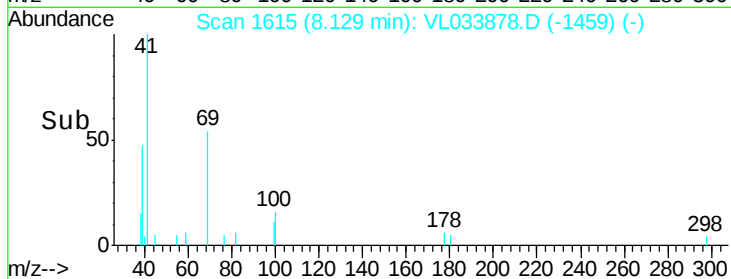
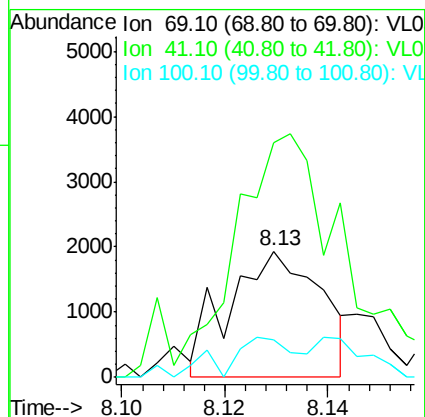
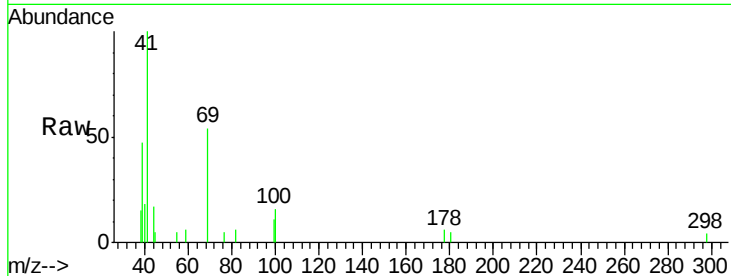




#43
Methvl Methacrilate
Concen: 0.033 ppbv
RT: 8.13 min Scan# 1615
Delta R.T. 0.00 min
Lab File: VL033878.D
Acq: 7 Jun 2019 4:36

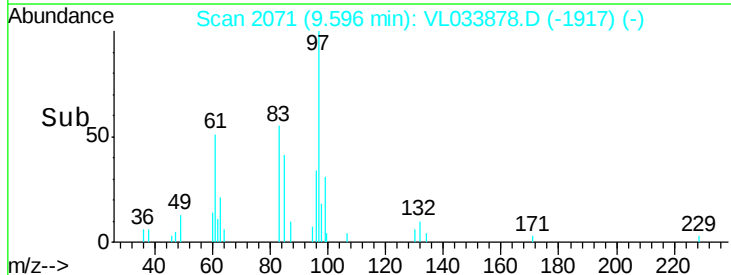
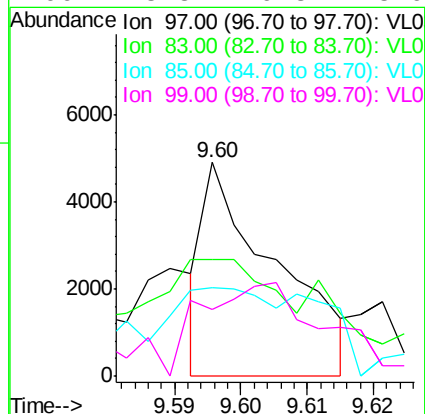
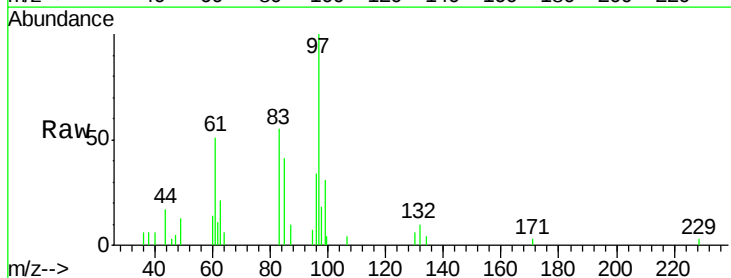
Instrument :
MSVOA_L
ClientSampleId :

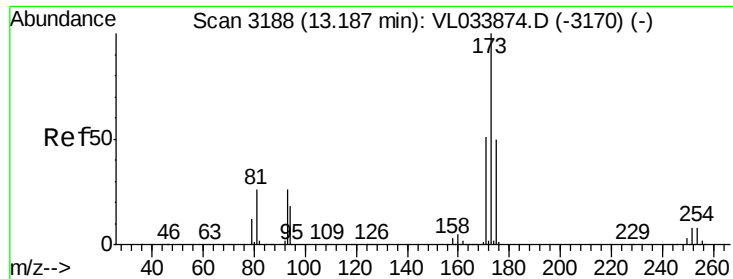
Tot Ion: 69 Resp: 2388
Ion Ratio Lower Upper
69 100
41 253.8 114.3 171.5#
100 42.3 24.8 37.2#



#47
1,1,2-Trichloroethane
Concen: 0.045 ppbv
RT: 9.60 min Scan# 2071
Delta R.T. -0.00 min
Lab File: VL033878.D
Acq: 7 Jun 2019 4:36

Tgt Ion: 97 Resp: 3724
Ion Ratio Lower Upper
97 100
83 28.0 70.9 106.3#
85 10.2 43.0 64.6#
99 13.3 49.3 73.9#





#49

Bromoform

Concen: 0.031 ppbv

RT: 13.18 min Scan# 3185

Delta R.T. -0.01 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

ClientSampled :

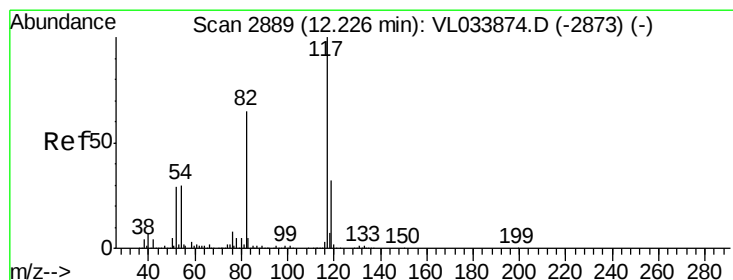
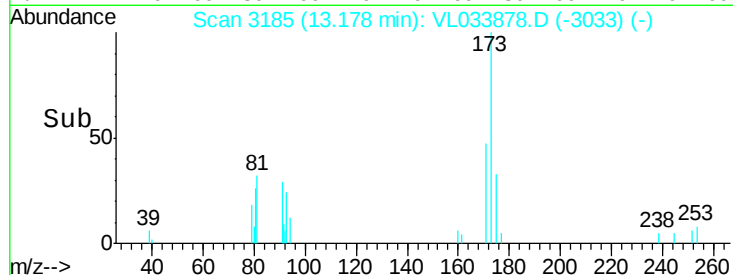
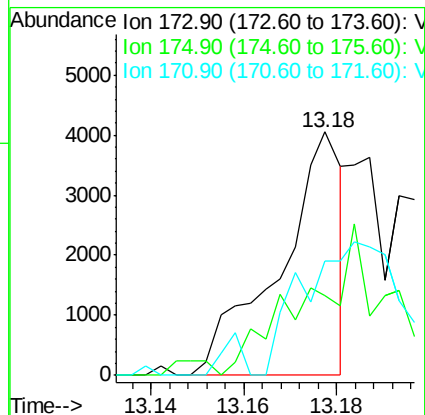
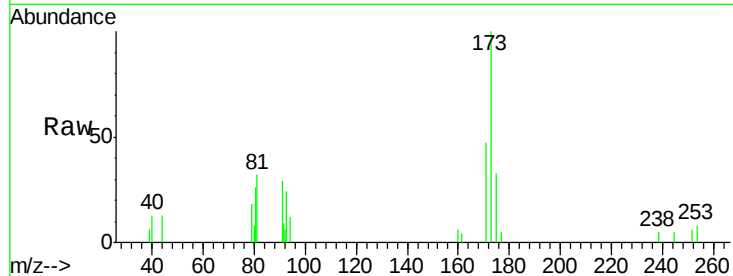
Tot Ion:173 Resp: 3825

Ion Ratio Lower Upper

173 100

175 0.0 39.6 59.4#

171 0.0 41.8 62.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

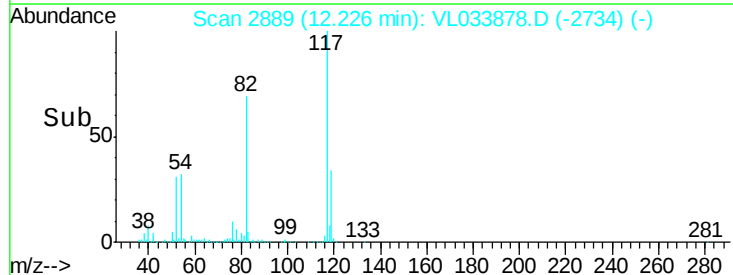
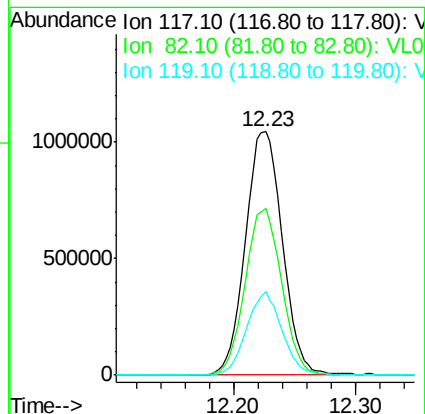
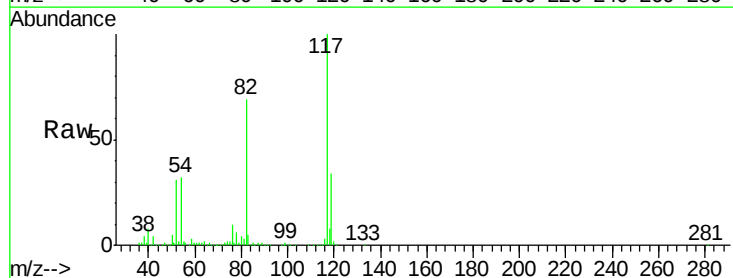
Tgt Ion:117 Resp: 2184561

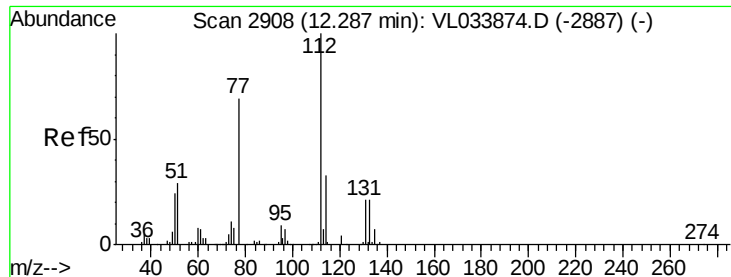
Ion Ratio Lower Upper

117 100

82 67.9 50.2 75.2

119 32.7 24.8 37.2





#57

Chlorobenzene

Concen: 0.080 ppbv

RT: 12.29 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

ClientSampleId :

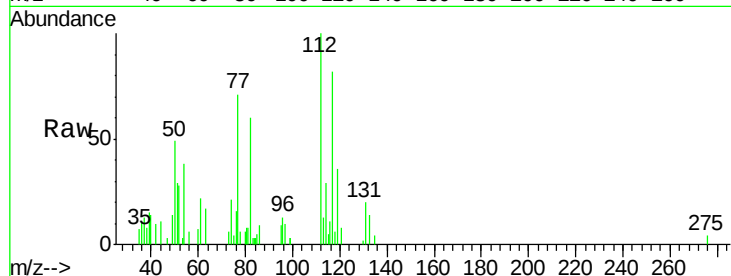
Tot Ion:112 Resp: 14315

Ion Ratio Lower Upper

112 100

77 59.1 55.8 83.6

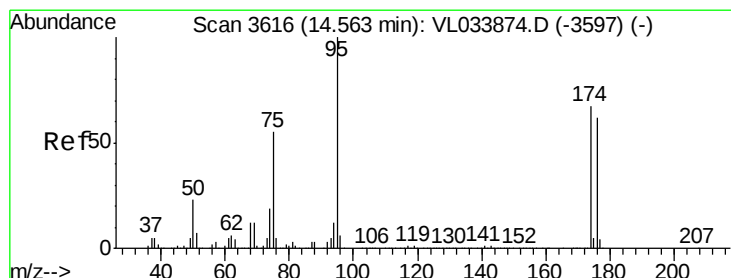
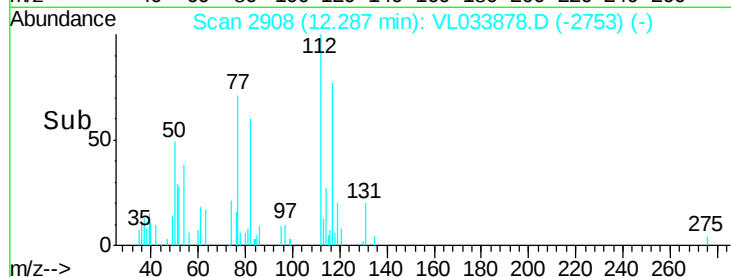
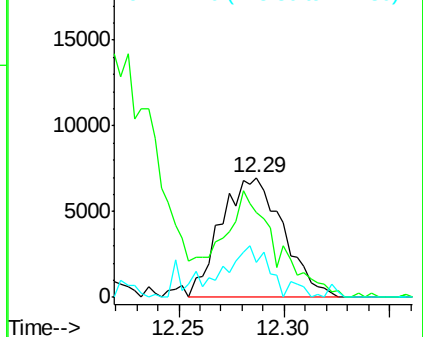
114 21.3 29.8 36.4#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.461 ppbv

RT: 14.56 min Scan# 3615

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

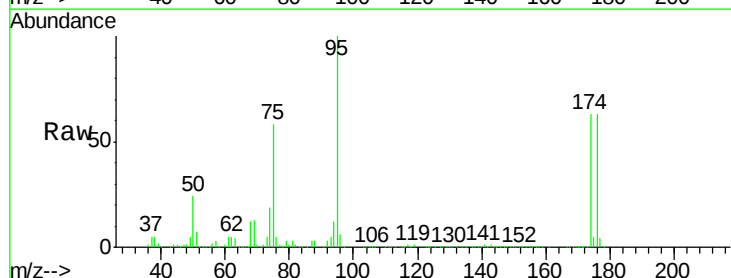
Tgt Ion: 95 Resp: 1848857

Ion Ratio Lower Upper

95 100

174 65.7 54.0 81.0

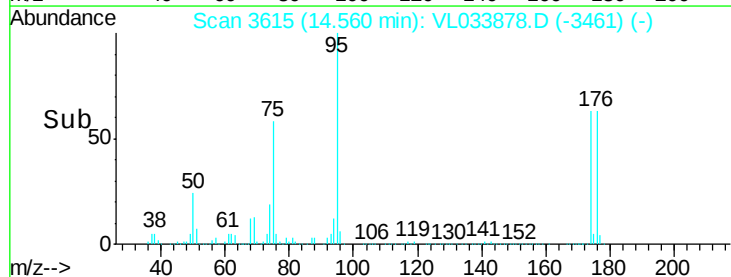
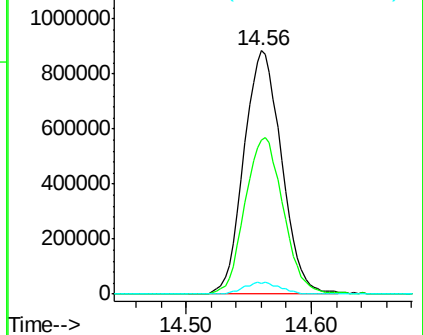
175 4.7 3.8 5.8

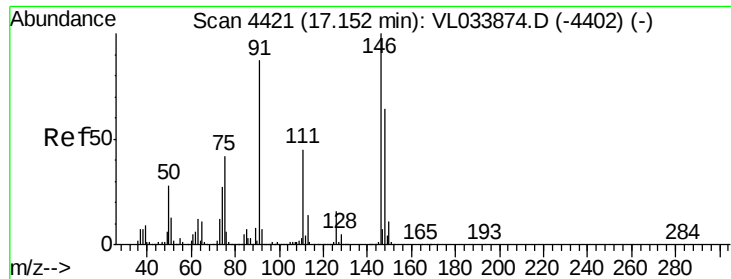


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

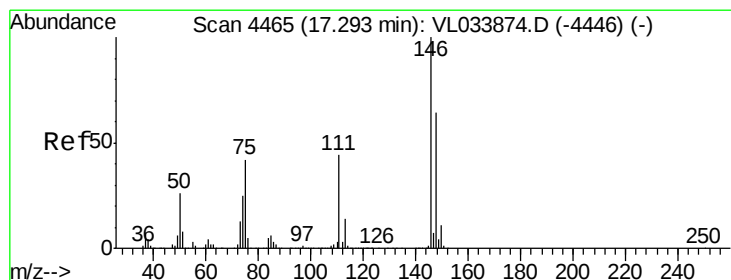
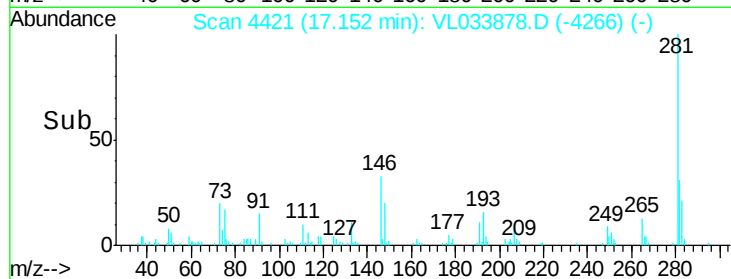
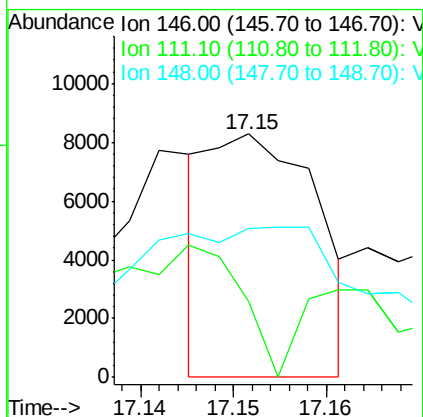
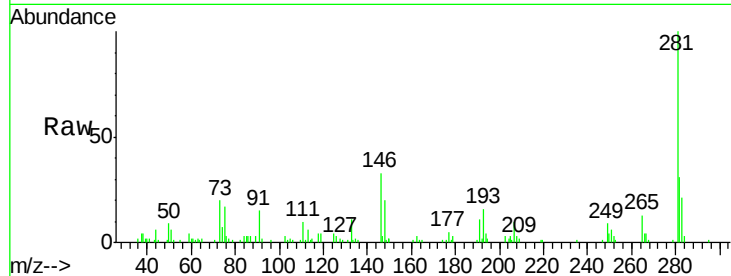




#75
 1,3-Dichlorobenzene
 Concen: 0.035 ppbv
 RT: 17.15 min Scan# 4421
 Delta R.T. -0.00 min
 Lab File: VL033878.D
 Acq: 7 Jun 2019 4:36

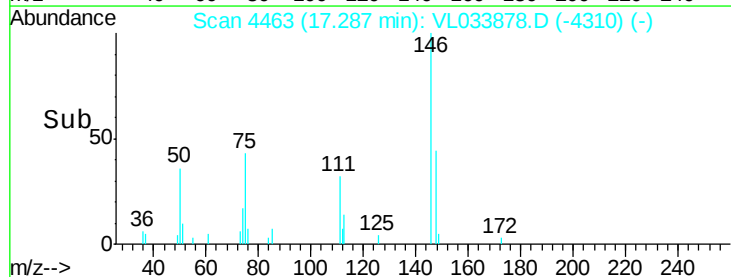
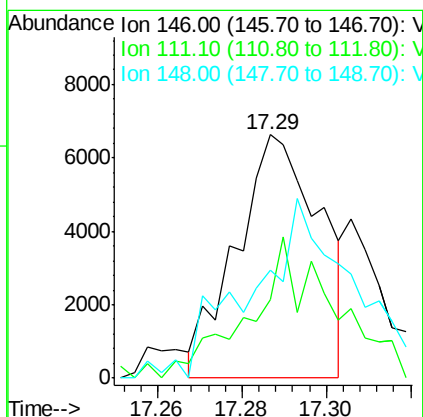
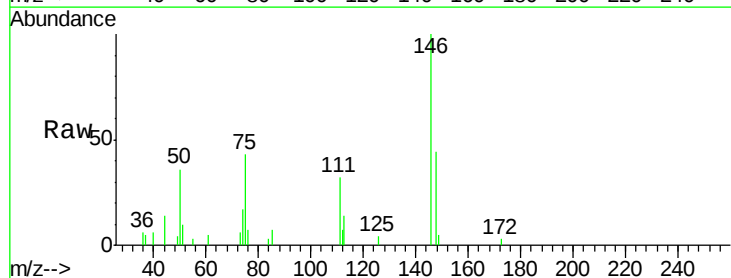
Instrument :
 MSVOA_L
 ClientSampleId :

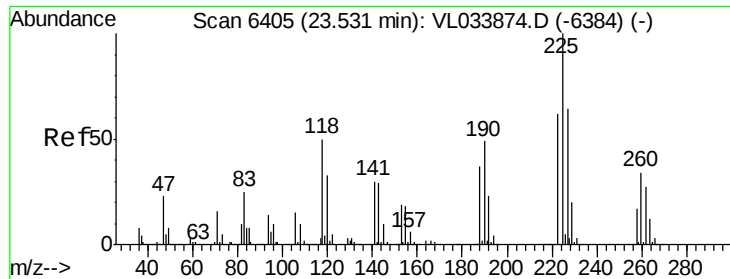
Tot Ion:146 Resp: 6665
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.8 68.3#
 148 215.2 32.2 96.6#



#76
 1,4-Dichlorobenzene
 Concen: 0.051 ppbv
 RT: 17.29 min Scan# 4463
 Delta R.T. -0.01 min
 Lab File: VL033878.D
 Acq: 7 Jun 2019 4:36

Tgt Ion:146 Resp: 9107
 Ion Ratio Lower Upper
 146 100
 111 63.9 22.1 66.5
 148 91.9 32.4 97.0





#78

Hexachloro-1,3-Butadiene

Concen: 0.081 ppbv

RT: 23.53 min Scan# 6406

Delta R.T. 0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

ClientSampleId :

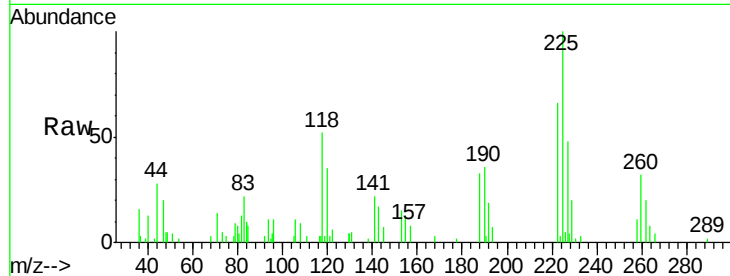
Tot Ion:225 Resp: 10802

Ion Ratio Lower Upper

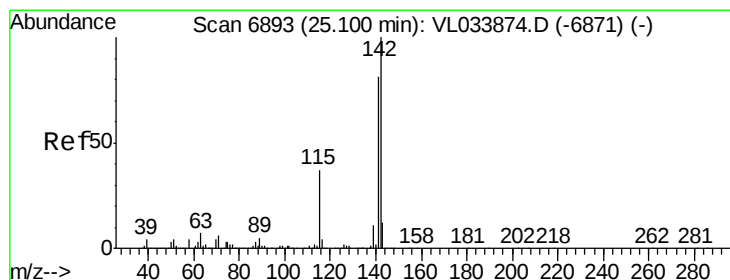
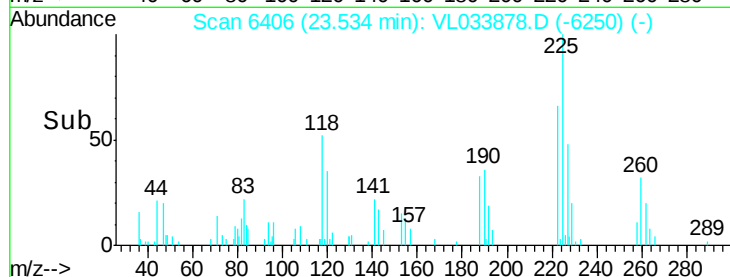
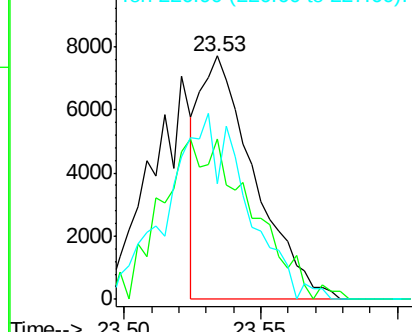
225 100

223 0.0 50.8 76.2#

227 109.0 51.8 77.6#



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V



#80

Naphthalene, 2-methyl-

Concen: 0.084 ppbv

RT: 25.12 min Scan# 6899

Delta R.T. 0.02 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

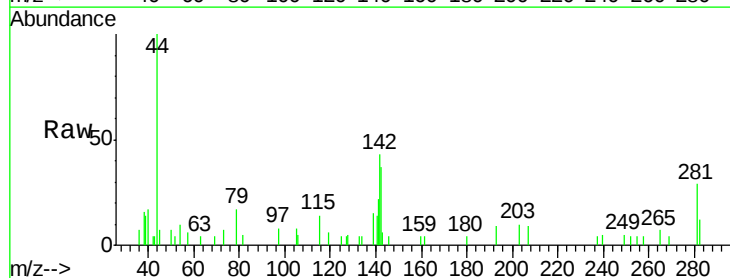
Tgt Ion:142 Resp: 8400

Ion Ratio Lower Upper

142 100

141 74.9 65.7 98.5

115 36.3 28.9 43.3



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

