

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031919\
 Data File : VF062014.D
 Acq On : 19 Mar 2019 13:19
 Operator : VA/AP
 Sample : K1692-03
 Misc : 8.71g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 20 05:20:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 18 07:28:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	17047	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.57	114	16290	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.75	117	7577	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	2108	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	1973	16.08	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	32.16%	
35) Dibromofluoromethane	4.08	113	3683	33.67	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	67.34%	
50) Toluene-d8	7.53	98	9491	29.68	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	59.36%	
62) 4-Bromofluorobenzene	11.40	95	2528	19.90	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	39.80%	

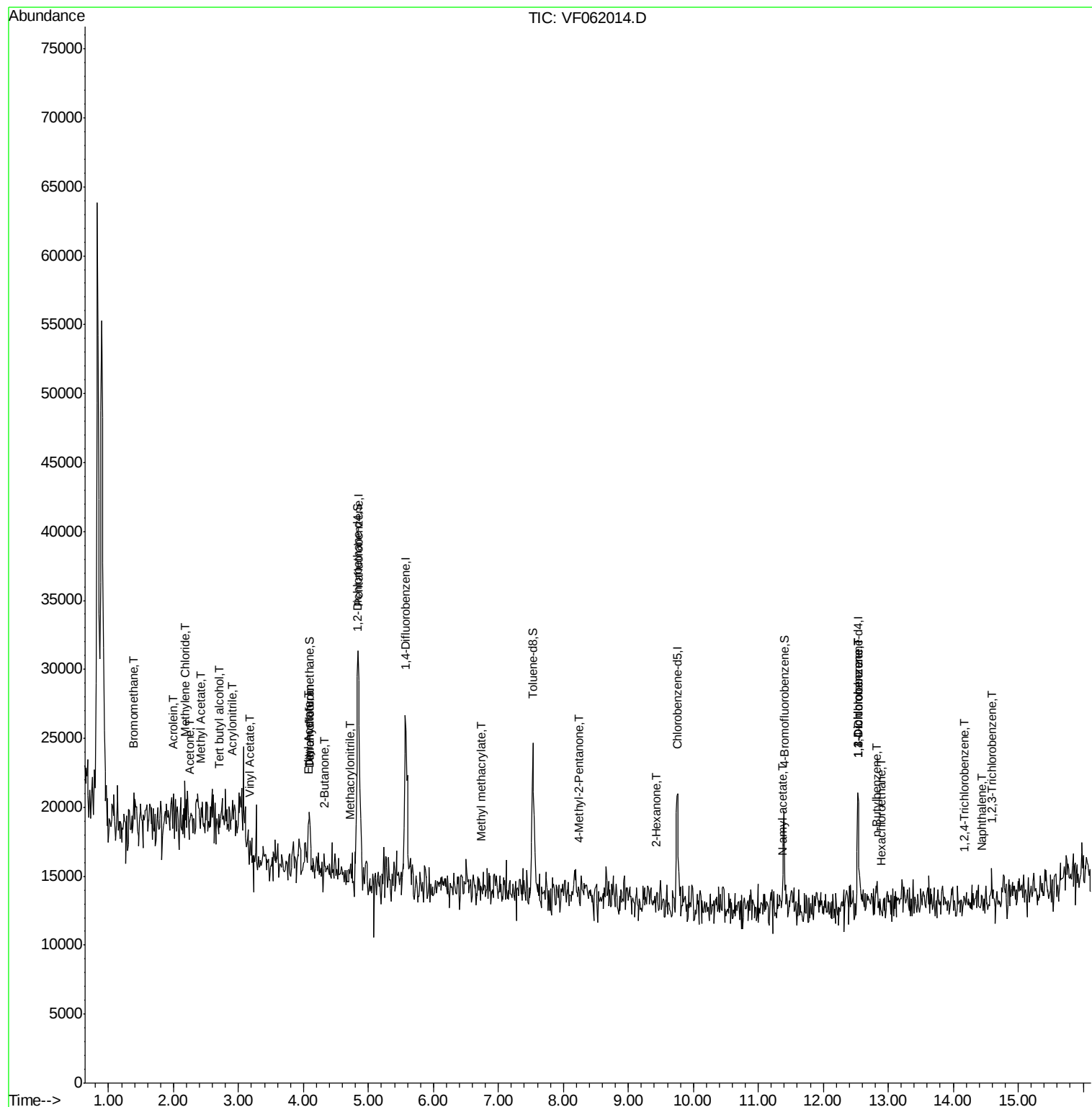
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.39	94	331	2.638	ug/l #	3
11) Tert butyl alcohol	2.70	59	95	12.652	ug/l #	71
13) Acrolein	2.00	56	269	33.185	ug/l	87
15) Acrylonitrile	2.92	53	220	9.635	ug/l #	18
16) Acetone	2.25	43	2792	101.324	ug/l #	50
18) Methyl Acetate	2.41	43	816	14.475	ug/l #	63
20) Methylene Chloride	2.18	84	346	2.439	ug/l #	46
23) Vinyl Acetate	3.16	43	501	2.877	ug/l #	77
25) 2-Butanone	4.32	43	198	3.628	ug/l #	51
29) Tetrahydrofuran	4.08	42	139	5.857	ug/l #	33
37) Ethyl Acetate	4.07	43	175	2.649	ug/l #	19
41) Methacrylonitrile	4.71	41	181	5.129	ug/l #	22
48) Methyl methacrylate	6.73	41	61	1.208	ug/l #	20
51) 4-Methyl-2-Pentanone	8.24	43	298	5.370	ug/l #	36
59) 2-Hexanone	9.43	43	102	2.540	ug/l #	23
74) N-amyl acetate	11.36	43	467	13.995	ug/l #	43
87) 1,3-Dichlorobenzene	12.55	146	160	2.414	ug/l #	26
88) 1,4-Dichlorobenzene	12.55	146	160	2.508	ug/l #	25
89) n-Butylbenzene	12.83	91	165	1.266	ug/l #	77
90) Hexachloroethane	12.90	117	60	1.896	ug/l #	18
93) 1,2,4-Trichlorobenzene	14.18	180	63	1.474	ug/l #	52
95) Naphthalene	14.44	128	1009	13.123	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.59	180	65	1.653	ug/l #	84

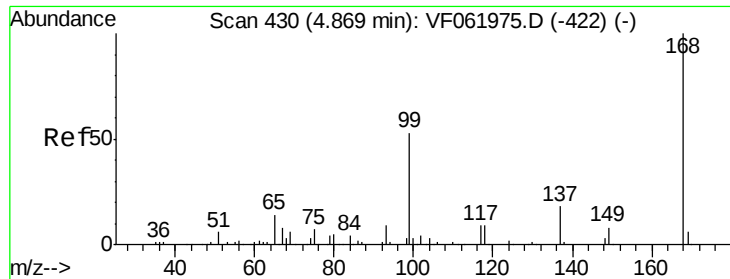
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Mar 18 07:28:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Instrument :

MSVOA_F

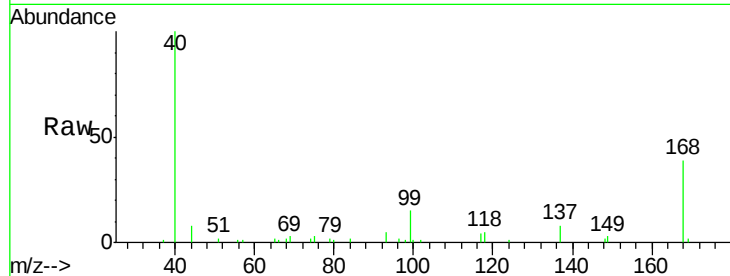
ClientSampleId :

Tot Ion:168 Resp: 17047

Ion Ratio Lower Upper

168 100

99 38.4 42.4 63.6#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

6000

5000

4000

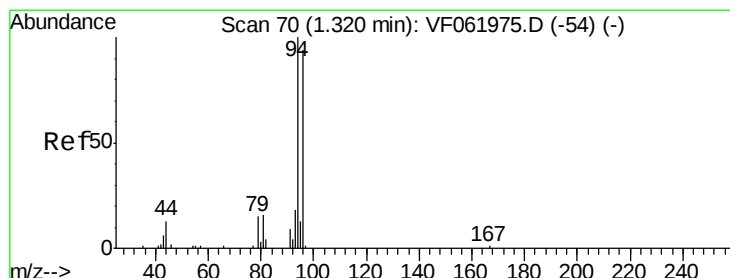
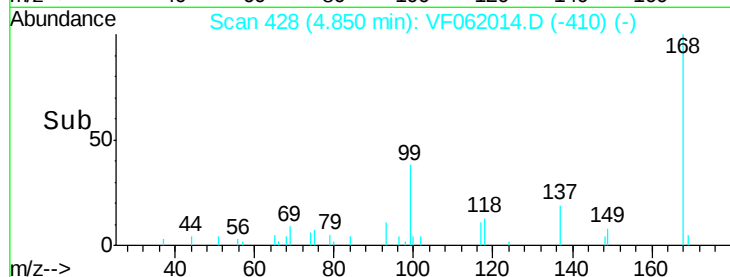
3000

2000

1000

0

Time-->



#5

Bromomethane

Concen: 2.638 ug/l

RT: 1.39 min Scan# 77

Delta R.T. 0.07 min

Lab File: VF062014.D

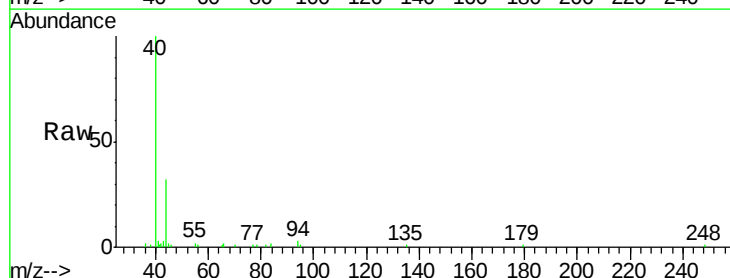
Acq: 19 Mar 2019 13:19

Tgt Ion: 94 Resp: 331

Ion Ratio Lower Upper

94 100

96 0.0 75.0 112.6#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.39

400

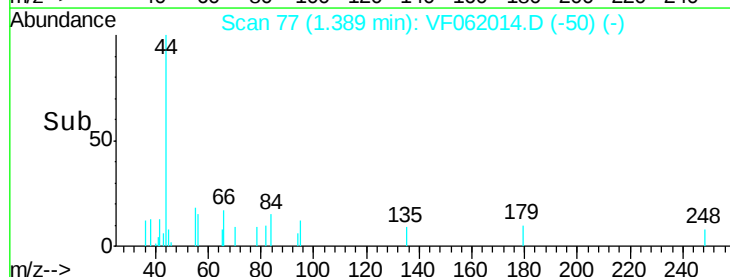
300

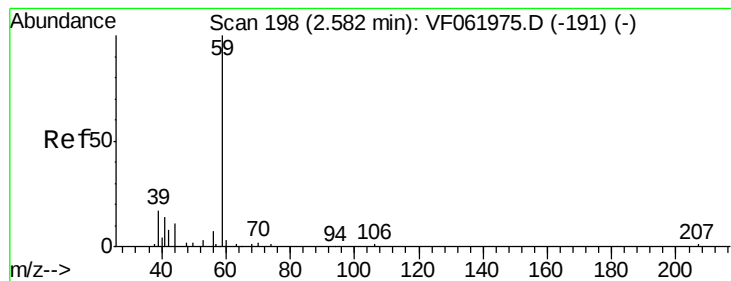
200

100

0

Time-->



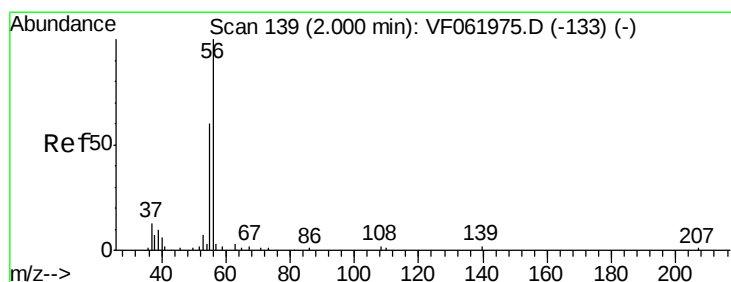
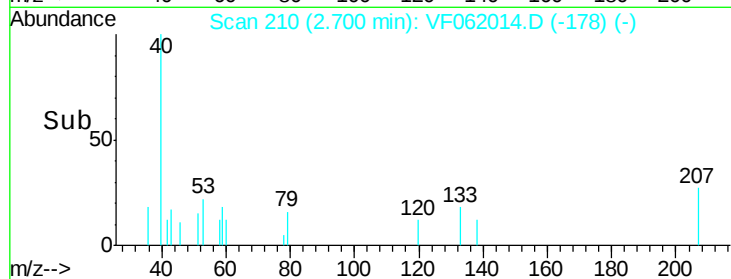
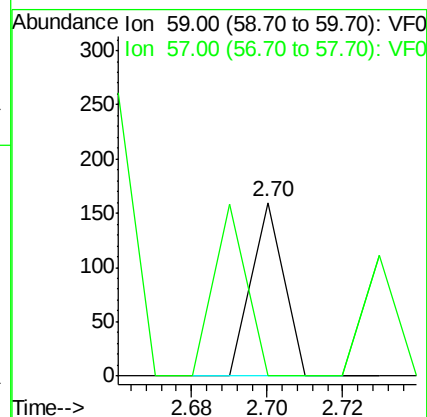
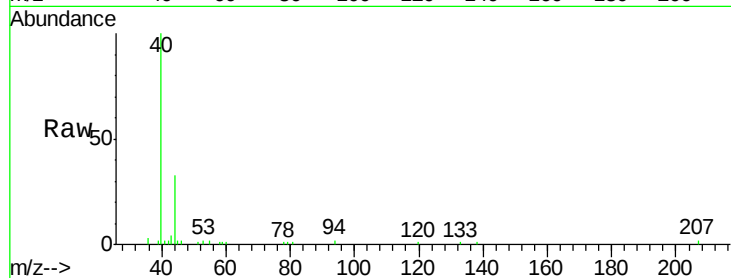


#11

Tert butyl alcohol
 Concen: 12.652 ug/l
 RT: 2.70 min Scan# 210
 Delta R.T. 0.12 min
 Lab File: VF062014.D
 Acq: 19 Mar 2019 13:19

Instrument :
 MSVOA_F
 ClientSampleId :

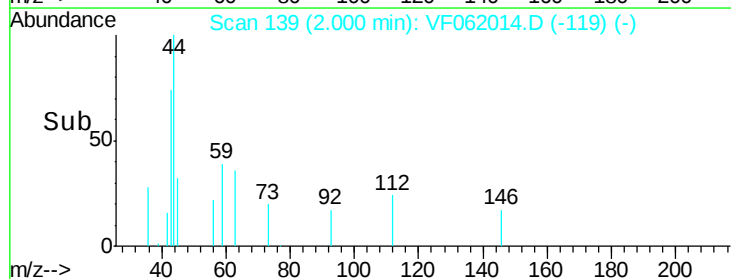
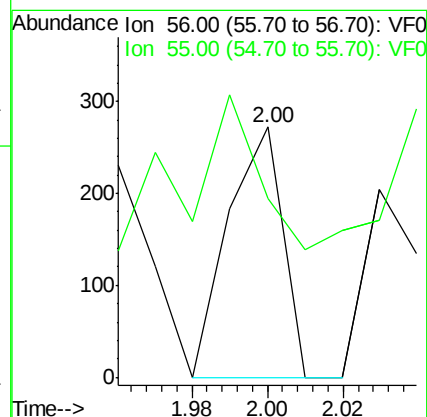
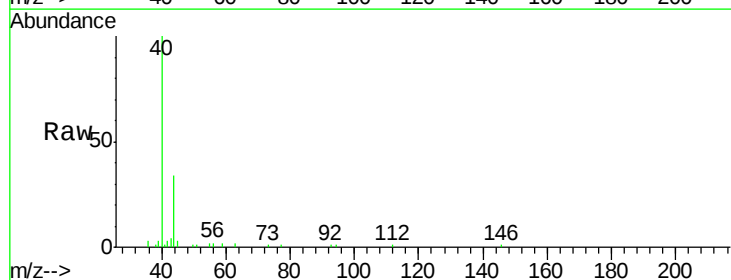
Tot Ion: 59 Resp: 95
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#

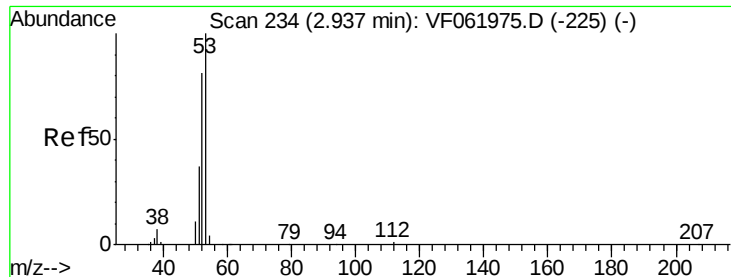


#13

Acrolein
 Concen: 33.185 ug/l
 RT: 2.00 min Scan# 139
 Delta R.T. 0.00 min
 Lab File: VF062014.D
 Acq: 19 Mar 2019 13:19

Tgt Ion: 56 Resp: 269
 Ion Ratio Lower Upper
 56 100
 55 71.7 49.1 73.7





#15

Acrylonitrile

Concen: 9.635 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.02 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampled :

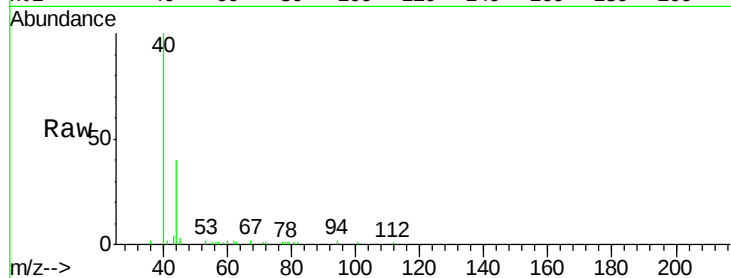
Tot Ion: 53 Resp: 220

Ion Ratio Lower Upper

53 100

52 0.0 64.4 96.6#

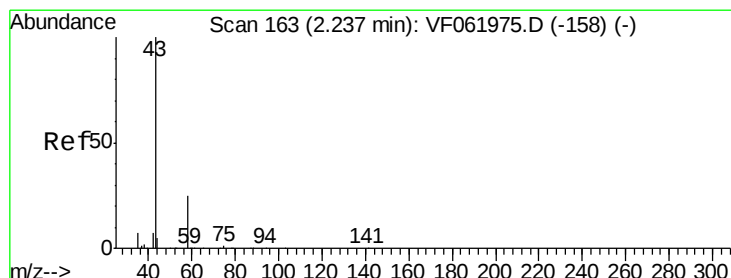
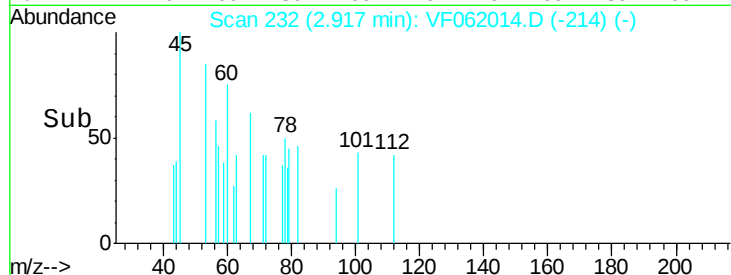
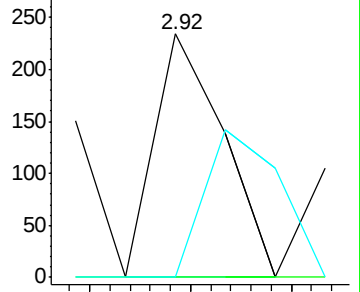
51 0.0 30.3 45.5#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 101.324 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF062014.D

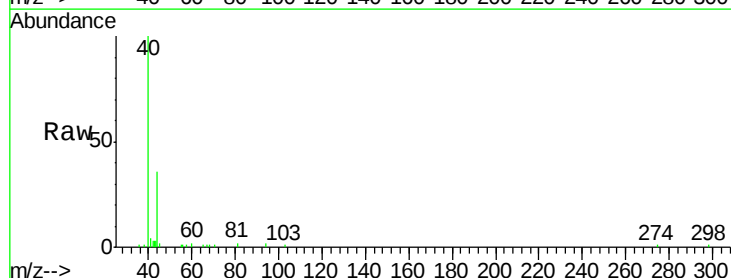
Acq: 19 Mar 2019 13:19

Tgt Ion: 43 Resp: 2792

Ion Ratio Lower Upper

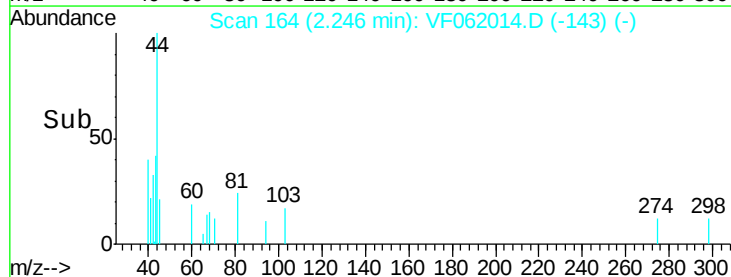
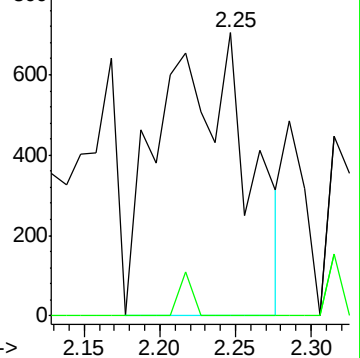
43 100

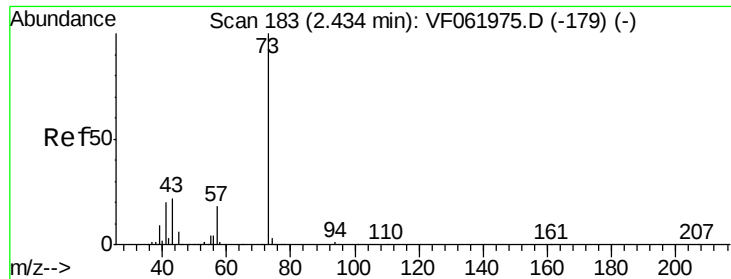
58 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

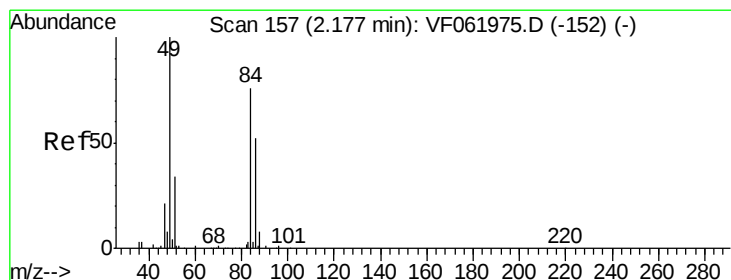
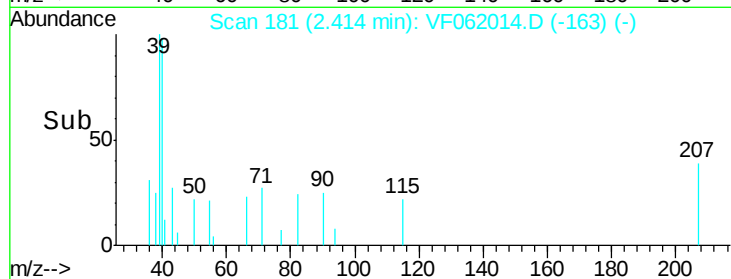
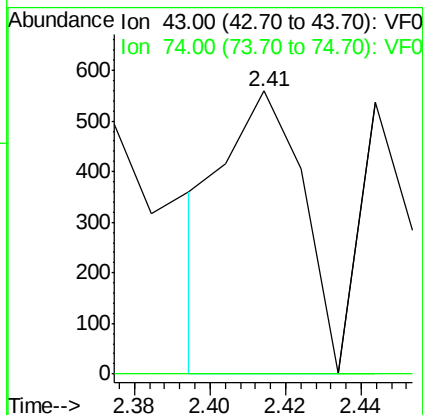
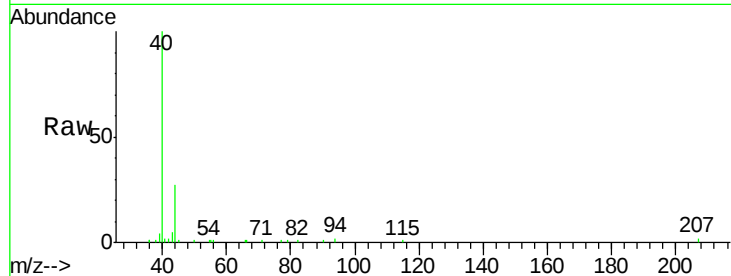




#18
Methyl Acetate
Concen: 14.475 ug/l
RT: 2.41 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF062014.D
Acq: 19 Mar 2019 13:19

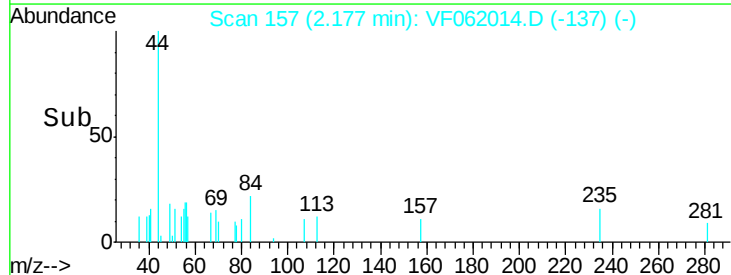
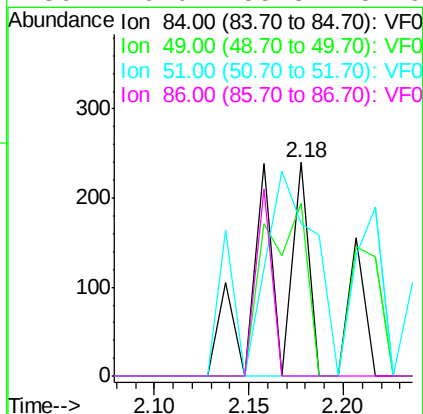
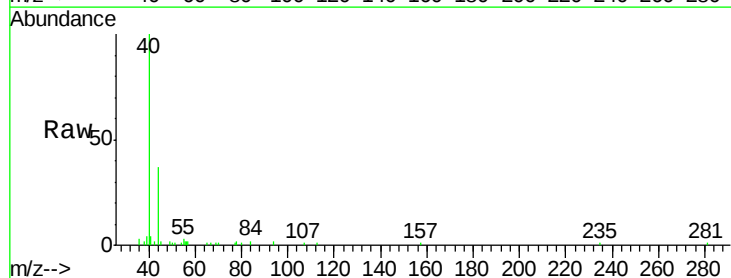
Instrument :
MSVOA_F
ClientSampled :

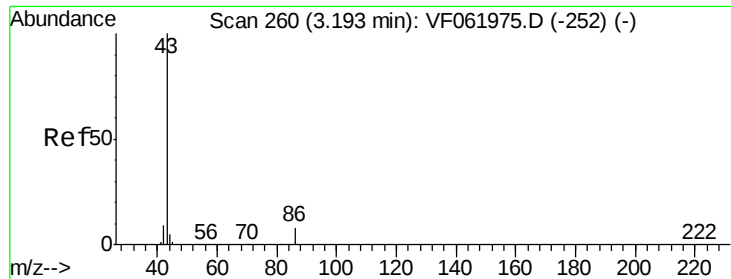
Tot Ion: 43 Resp: 816
Ion Ratio Lower Upper
43 100
74 0.0 12.6 18.8#



#20
Methylene Chloride
Concen: 2.439 ug/l
RT: 2.18 min Scan# 157
Delta R.T. 0.00 min
Lab File: VF062014.D
Acq: 19 Mar 2019 13:19

Tgt Ion: 84 Resp: 346
Ion Ratio Lower Upper
84 100
49 80.8 107.0 160.6#
51 71.3 37.2 55.8#
86 0.0 55.3 82.9#





#23

Vinyl Acetate

Concen: 2.877 ug/l

RT: 3.16 min Scan# 257

Delta R.T. -0.03 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Instrument :

MSVOA_F

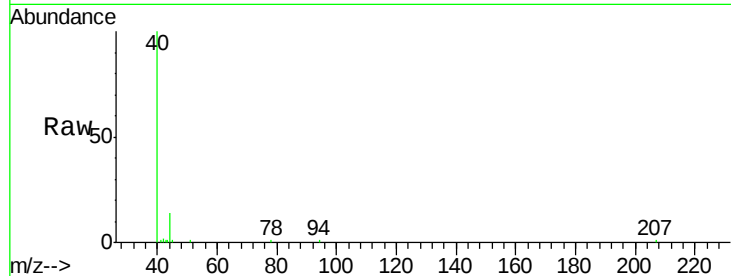
ClientSampled :

Tot Ion: 43 Resp: 501

Ion Ratio Lower Upper

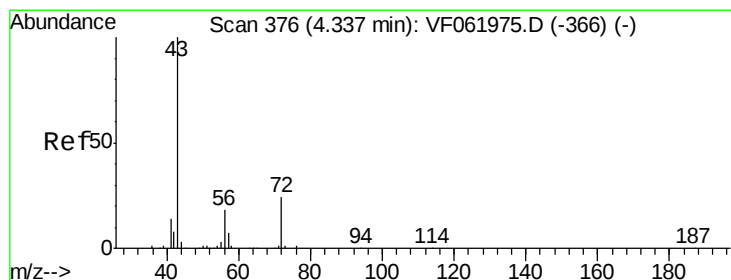
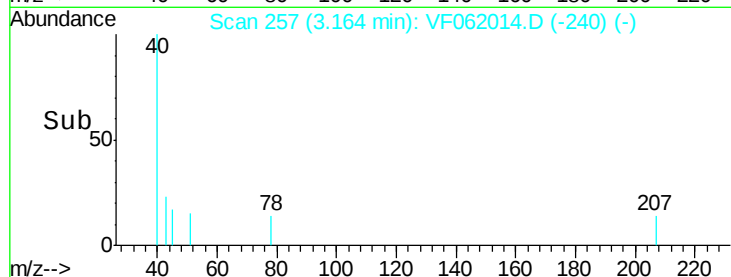
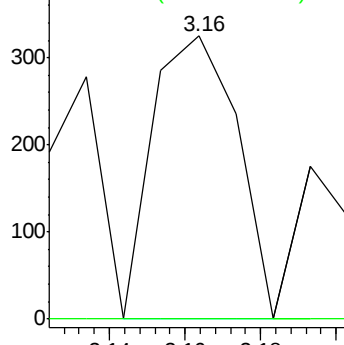
43 100

86 0.0 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 3.628 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF062014.D

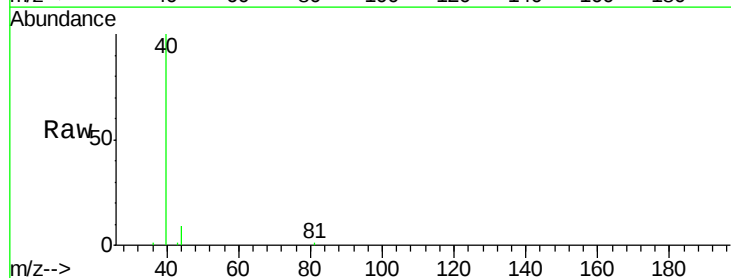
Acq: 19 Mar 2019 13:19

Tgt Ion: 43 Resp: 198

Ion Ratio Lower Upper

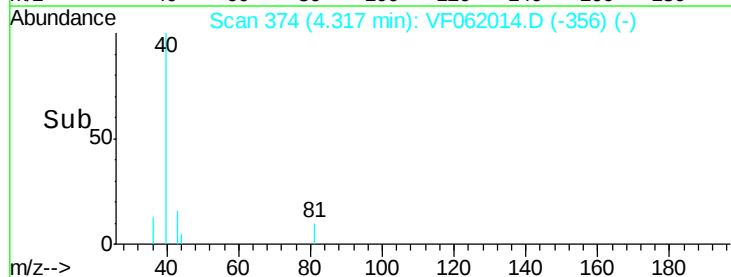
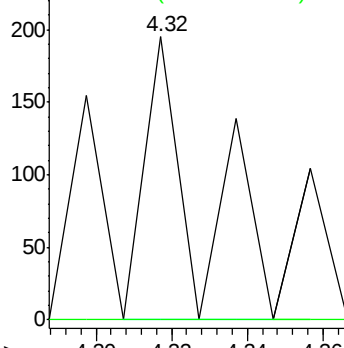
43 100

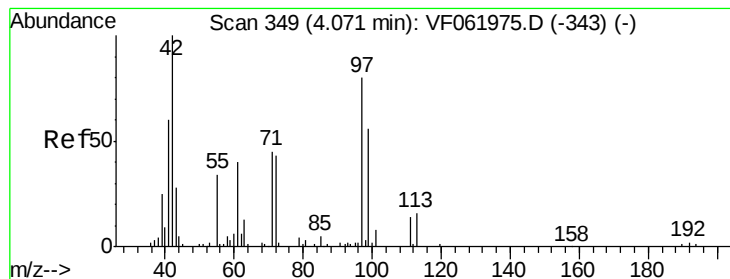
72 0.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 5.857 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampled :

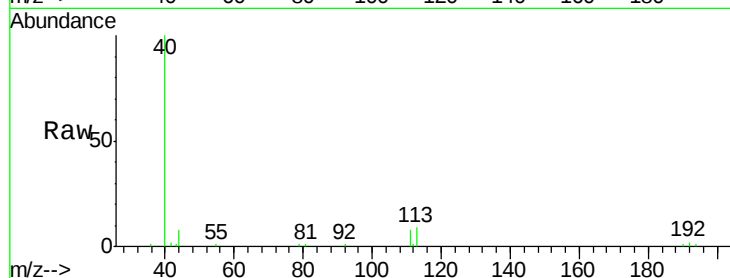
Tot Ion: 42 Resp: 139

Ion Ratio Lower Upper

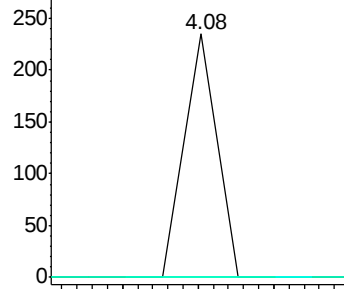
42 100

72 0.0 34.0 51.0#

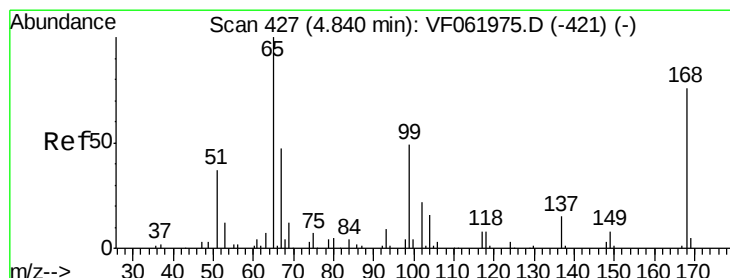
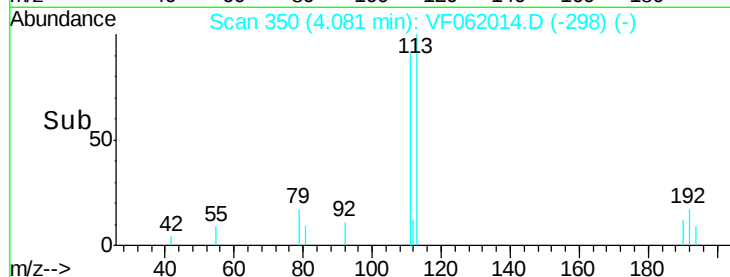
71 0.0 34.2 51.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 16.078 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.02 min

Lab File: VF062014.D

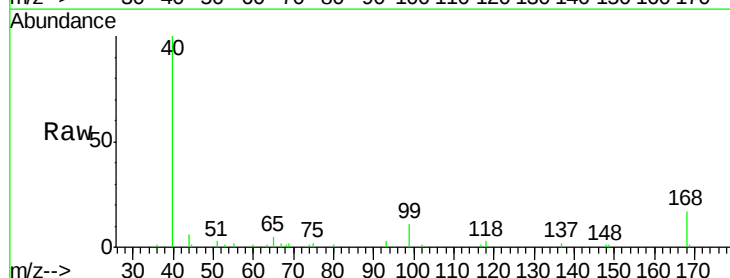
Acq: 19 Mar 2019 13:19

Tgt Ion: 65 Resp: 1973

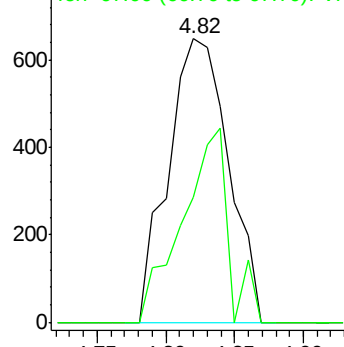
Ion Ratio Lower Upper

65 100

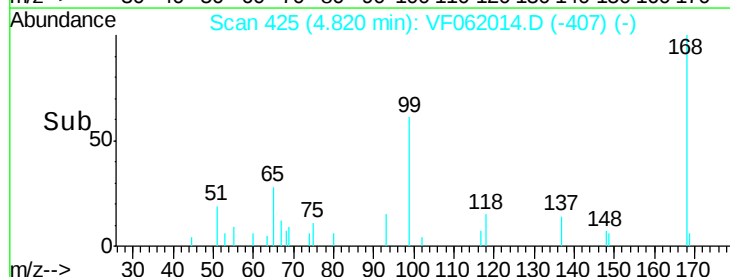
67 44.3 0.0 109.4

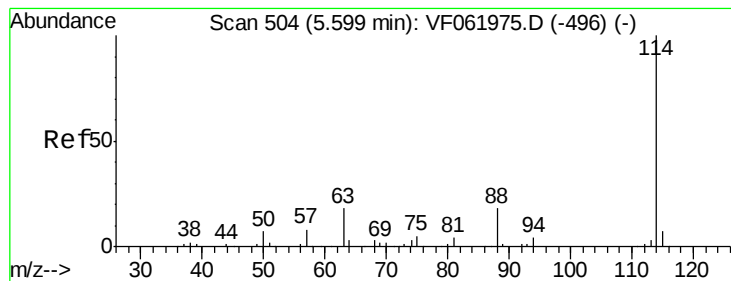


Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0



Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.57 min Scan# 501

Delta R.T. -0.03 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

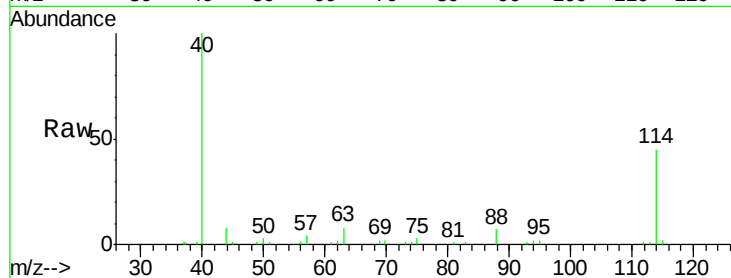
Tot Ion:114 Resp: 16290

Ion Ratio Lower Upper

114 100

63 19.0 0.0 36.4

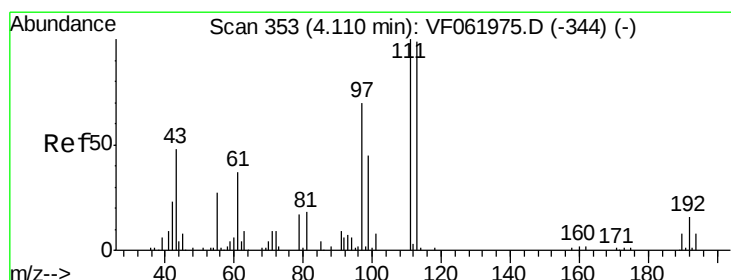
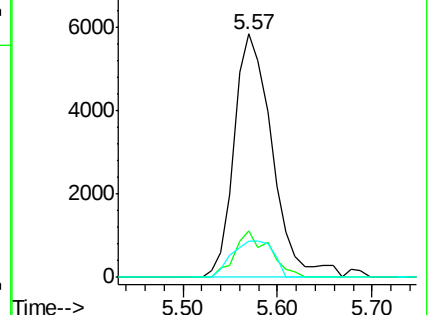
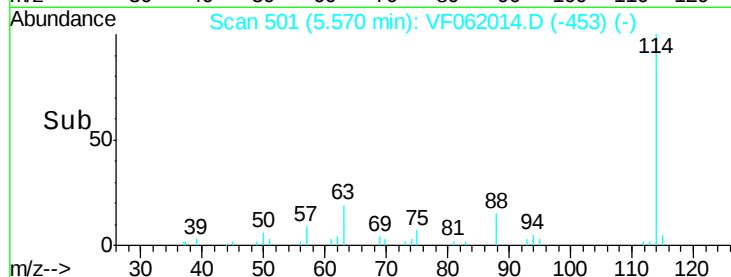
88 14.8 0.0 36.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 33.668 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

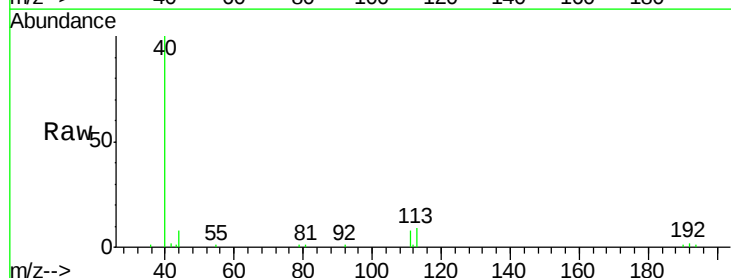
Tgt Ion:113 Resp: 3683

Ion Ratio Lower Upper

113 100

111 91.5 80.8 121.2

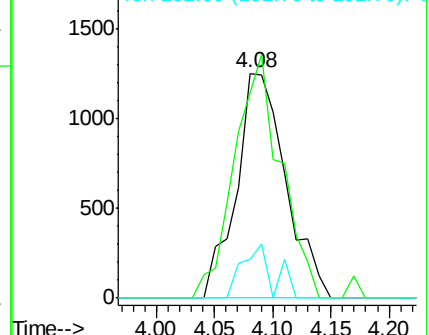
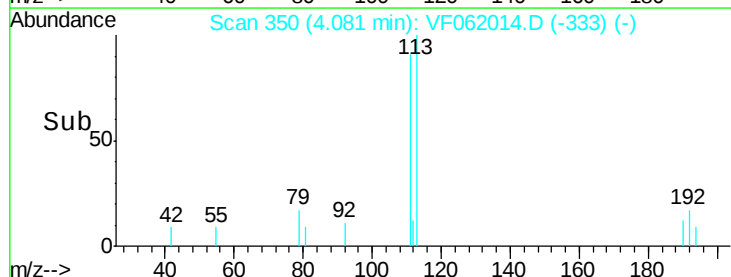
192 17.4 13.0 19.6

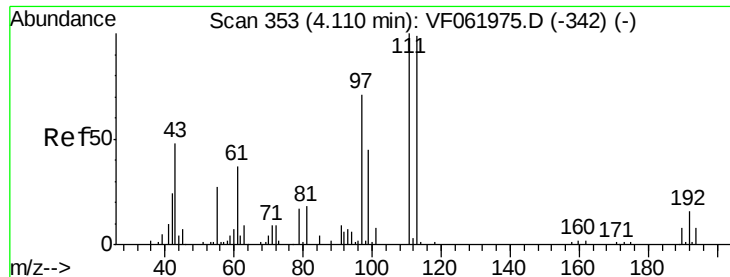


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 2.649 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.04 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :

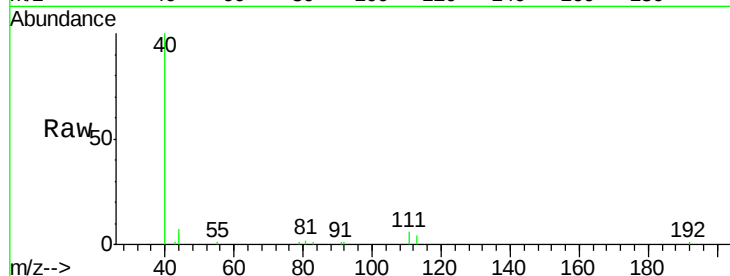
Tot Ion: 43 Resp: 175

Ion Ratio Lower Upper

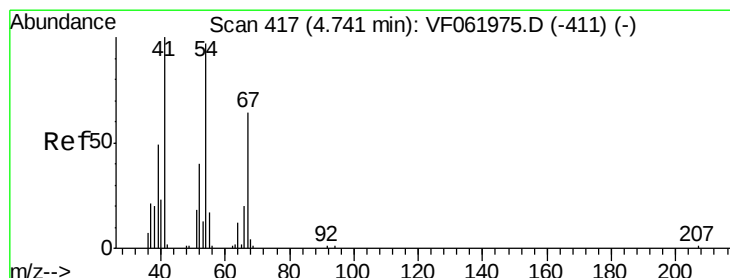
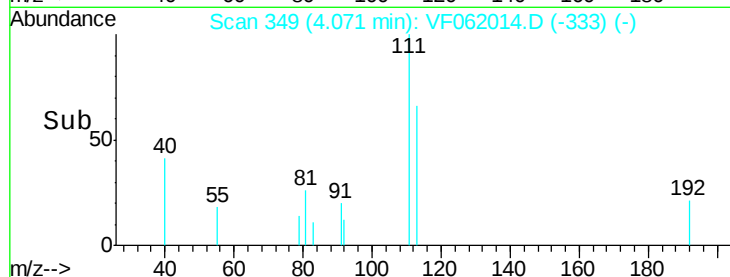
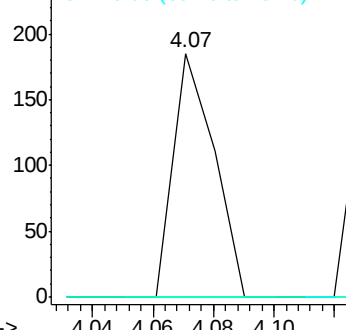
43 100

61 0.0 59.8 89.6#

70 0.0 7.8 11.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0



#41

Methacrylonitrile

Concen: 5.129 ug/l

RT: 4.71 min Scan# 414

Delta R.T. -0.03 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Tgt Ion: 41 Resp: 181

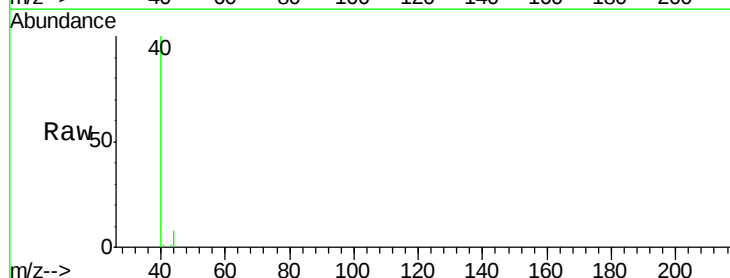
Ion Ratio Lower Upper

41 100

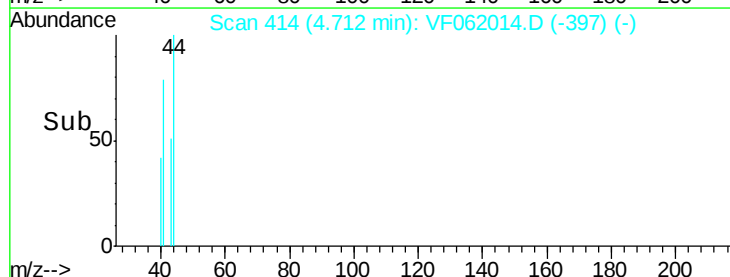
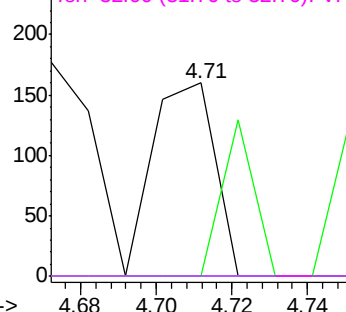
39 0.0 46.2 69.4#

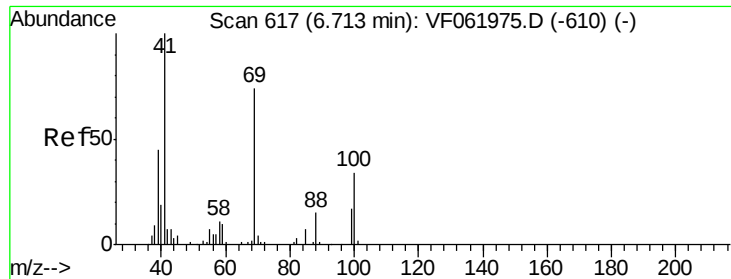
67 0.0 49.8 74.8#

52 0.0 42.7 64.1#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

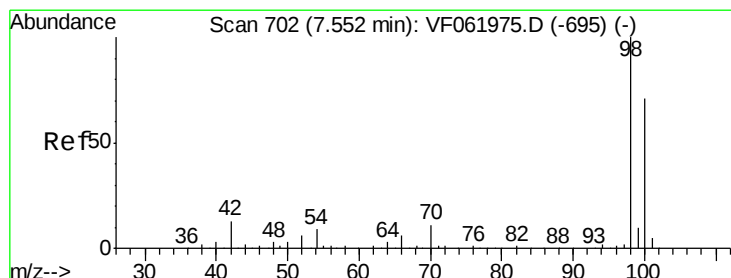
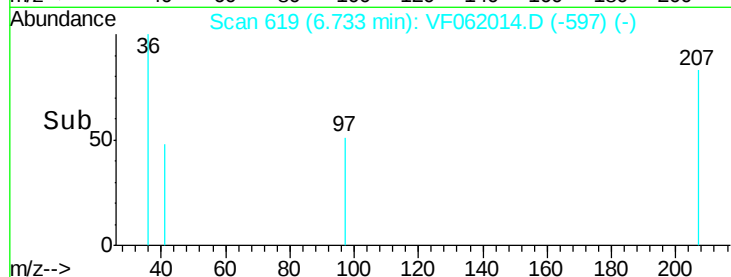
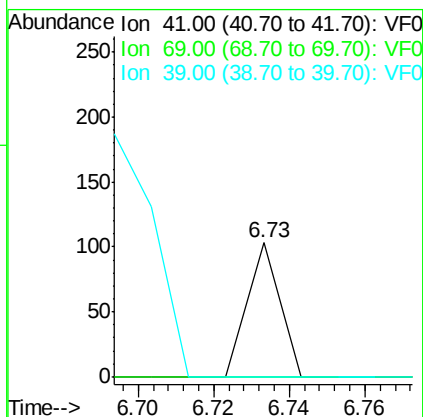
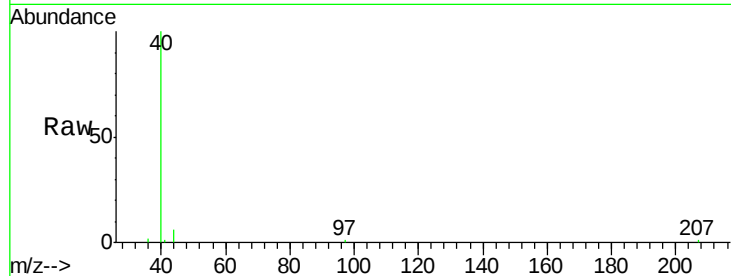




#48
Methvl methacrylate
Concen: 1.208 ug/l
RT: 6.73 min Scan# 619
Delta R.T. 0.02 min
Lab File: VF062014.D
Acq: 19 Mar 2019 13:19

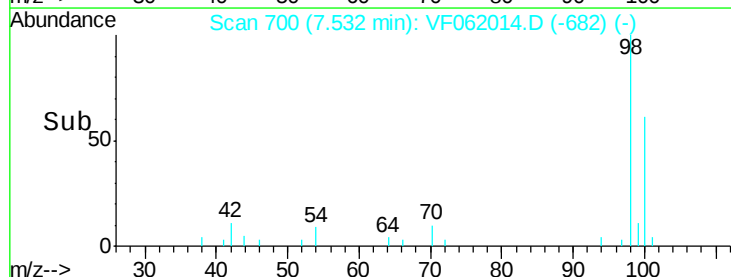
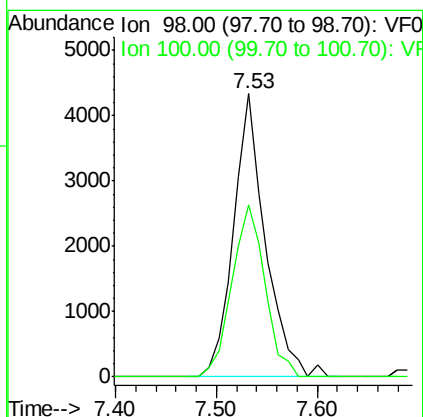
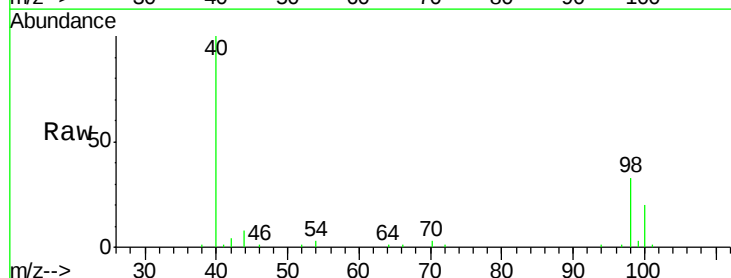
Instrument :
MSVOA_F
ClientSampleId :

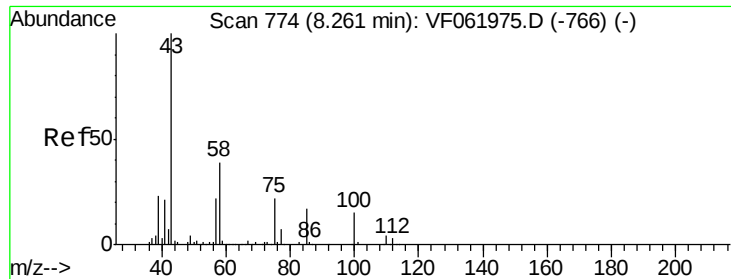
Tot Ion: 41 Resp: 61
Ion Ratio Lower Upper
41 100
69 0.0 59.0 88.6#
39 0.0 35.6 53.4#



#50
Toluene-d8
Concen: 29.680 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF062014.D
Acq: 19 Mar 2019 13:19

Tgt Ion: 98 Resp: 9491
Ion Ratio Lower Upper
98 100
100 60.7 56.8 85.2





#51

4-Methyl-2-Pentanone

Concen: 5.370 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Instrument :

MSVOA_F

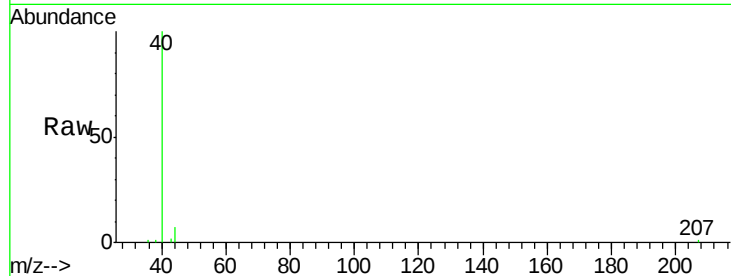
ClientSampleId :

Tot Ion: 43 Resp: 298

Ion Ratio Lower Upper

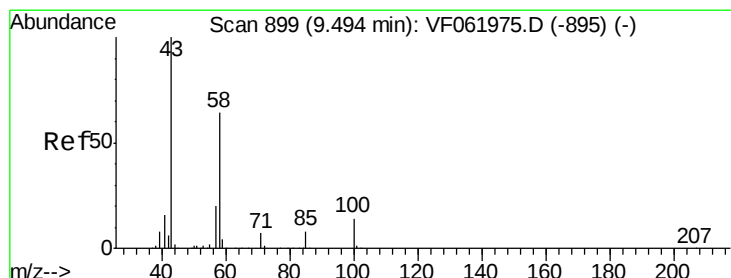
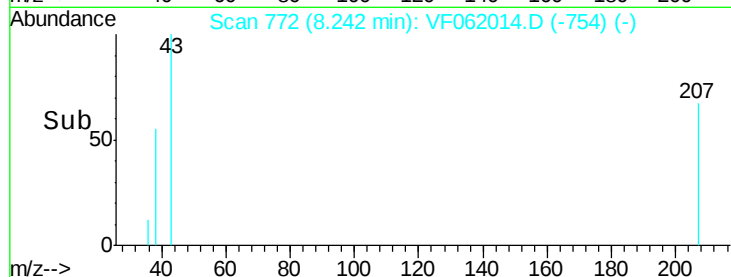
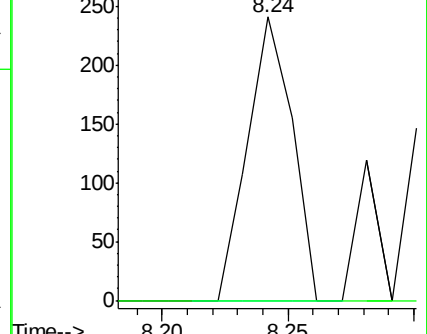
43 100

58 0.0 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 2.540 ug/l

RT: 9.43 min Scan# 892

Delta R.T. -0.07 min

Lab File: VF062014.D

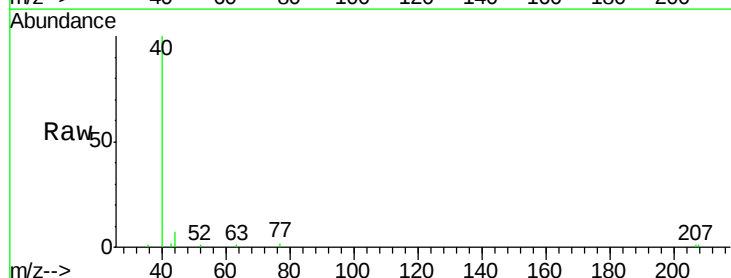
Acq: 19 Mar 2019 13:19

Tgt Ion: 43 Resp: 102

Ion Ratio Lower Upper

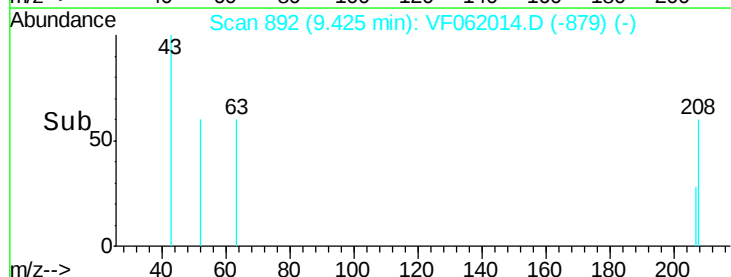
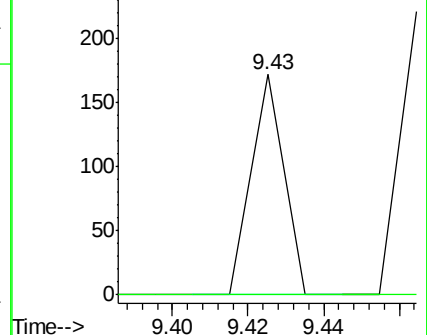
43 100

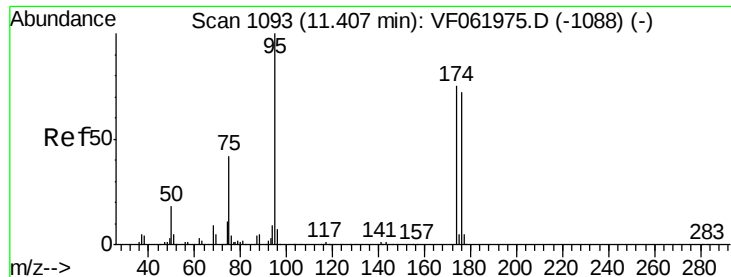
58 0.0 28.4 85.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 19.900 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

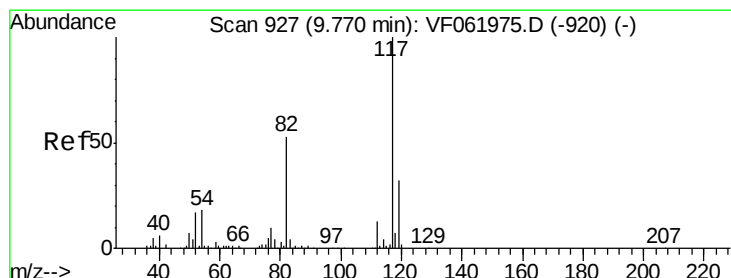
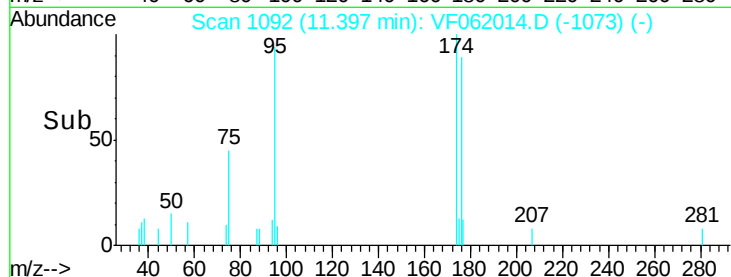
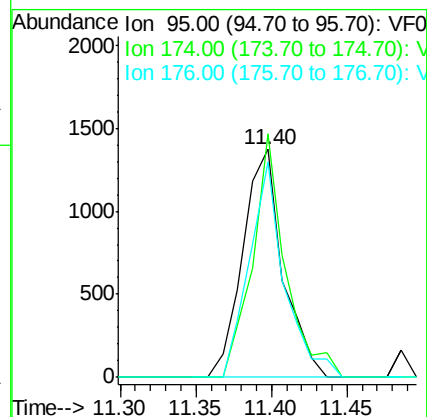
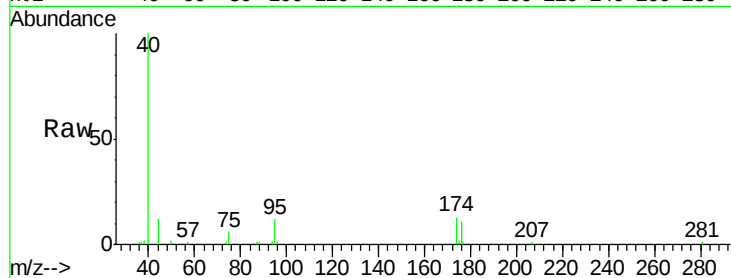
Tot Ion: 95 Resp: 2528

Ion Ratio Lower Upper

95 100

174 106.8 0.0 149.4

176 94.7 0.0 143.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.75 min Scan# 925

Delta R.T. -0.02 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

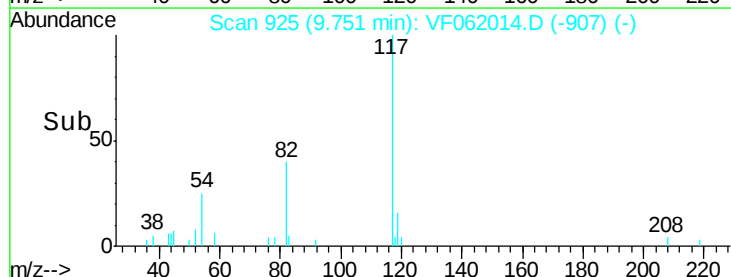
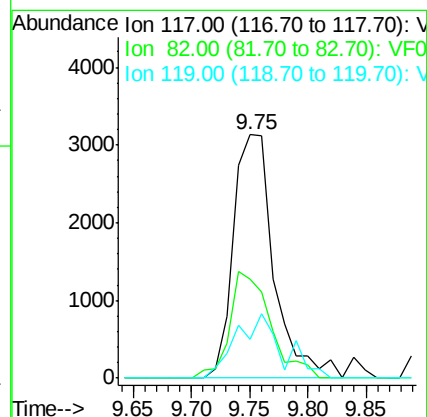
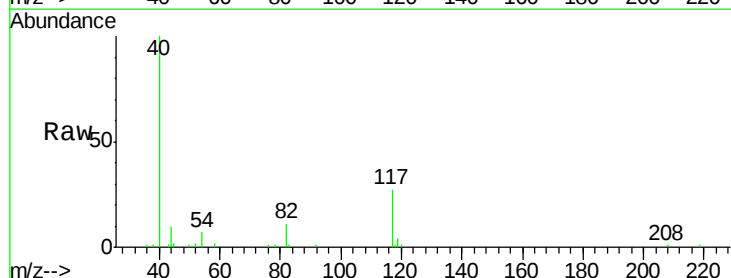
Tgt Ion: 117 Resp: 7577

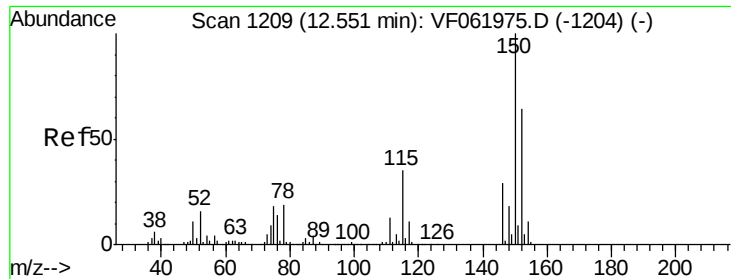
Ion Ratio Lower Upper

117 100

82 40.4 42.5 63.7#

119 16.0 25.4 38.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

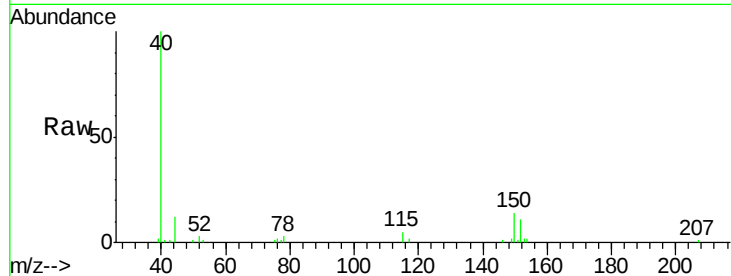
Tot Ion:152 Resp: 2108

Ion Ratio Lower Upper

152 100

115 48.2 27.3 81.9

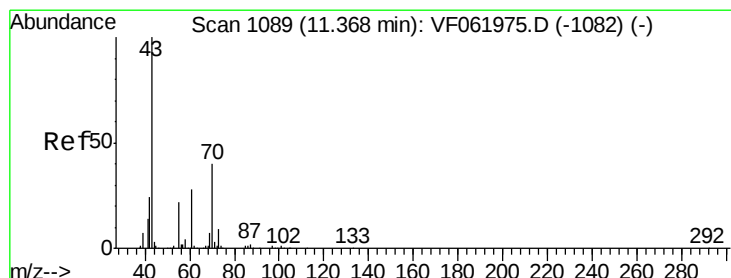
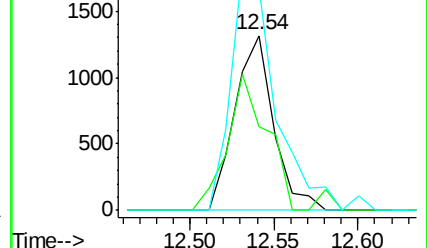
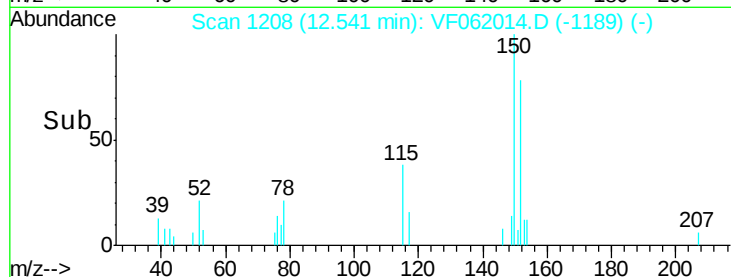
150 128.0 0.0 316.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 13.995 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Tgt Ion: 43 Resp: 467

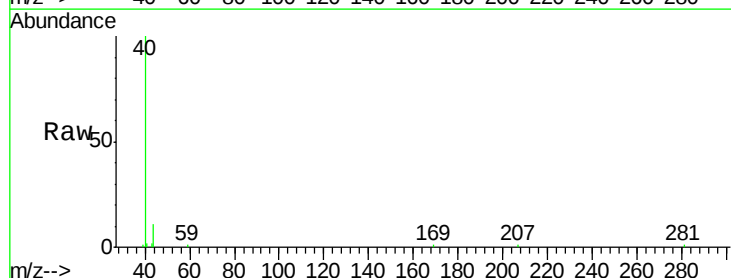
Ion Ratio Lower Upper

43 100

70 0.0 31.9 47.9#

55 0.0 17.9 26.9#

61 0.0 22.2 33.2#

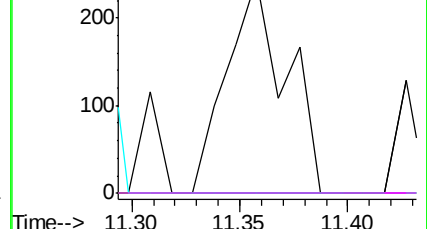
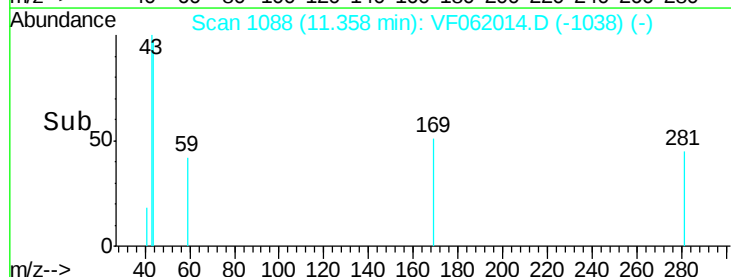


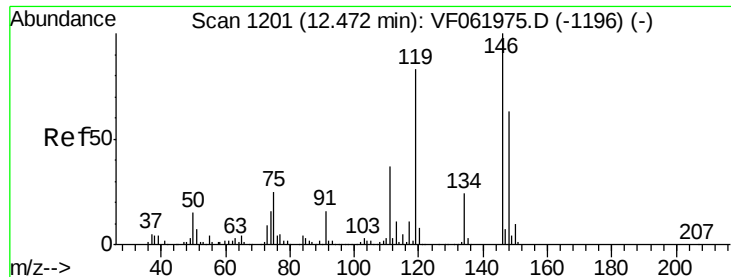
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#87

1,3-Dichlorobenzene

Concen: 2.414 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.08 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

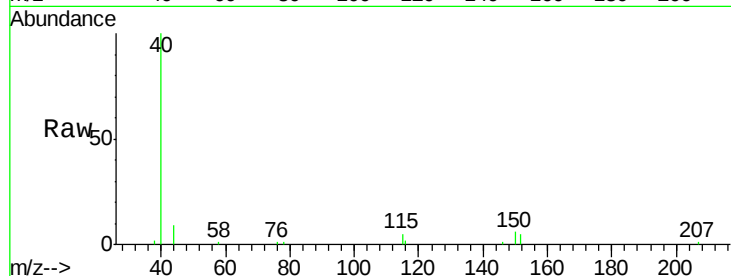
Tot Ion:146 Resp: 160

Ion Ratio Lower Upper

146 100

111 0.0 18.6 55.8#

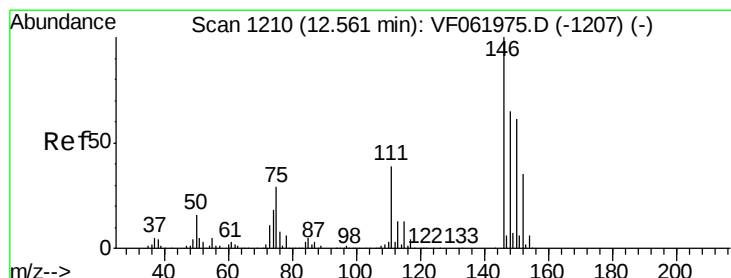
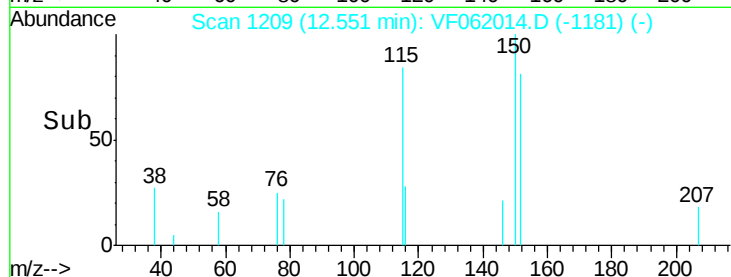
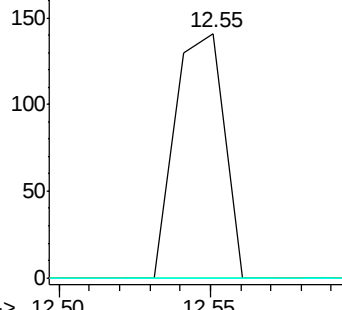
148 0.0 31.3 93.9#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 2.508 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

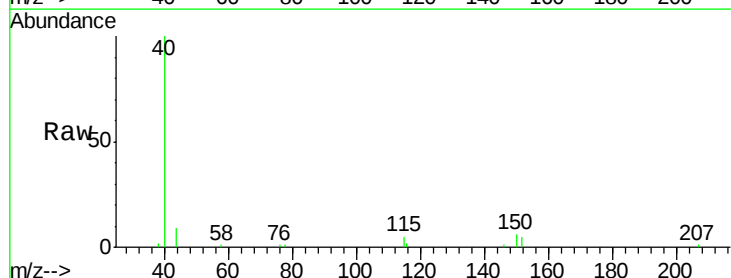
Tgt Ion:146 Resp: 160

Ion Ratio Lower Upper

146 100

111 0.0 19.4 58.1#

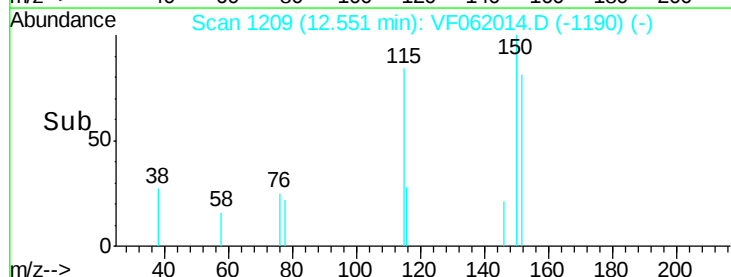
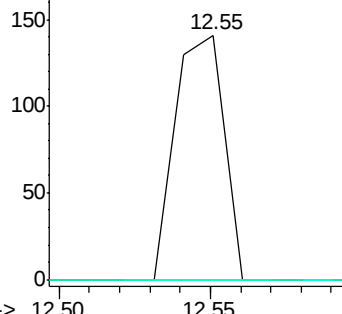
148 0.0 32.4 97.0#

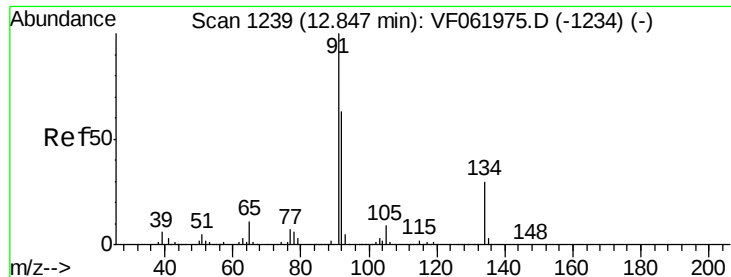


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 1.266 ug/l

RT: 12.83 min Scan# 1237

Delta R.T. -0.02 min

Lab File: VF062014.D

Acq: 19 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

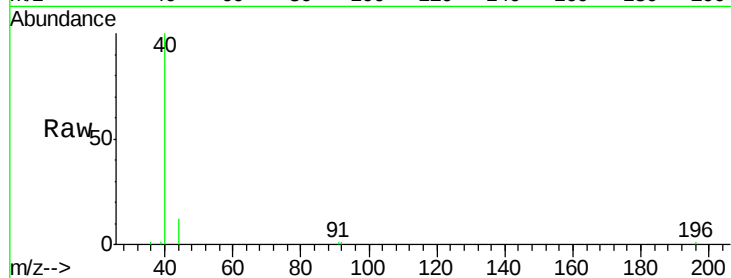
Tot Ion: 91 Resp: 165

Ion Ratio Lower Upper

91 100

92 57.1 31.7 95.1

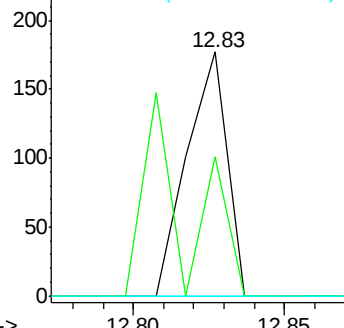
134 0.0 15.1 45.3#



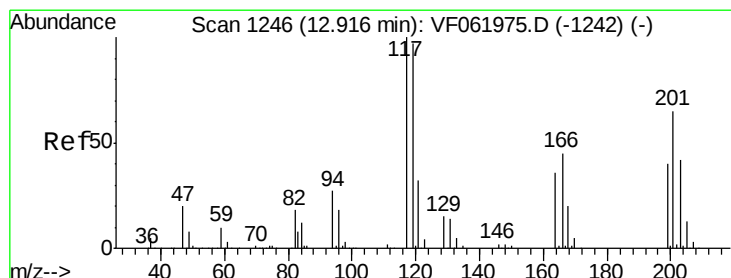
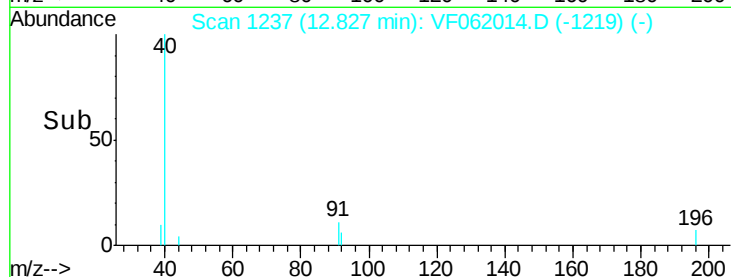
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



Time-->



#90

Hexachloroethane

Concen: 1.896 ug/l

RT: 12.90 min Scan# 1244

Delta R.T. -0.02 min

Lab File: VF062014.D

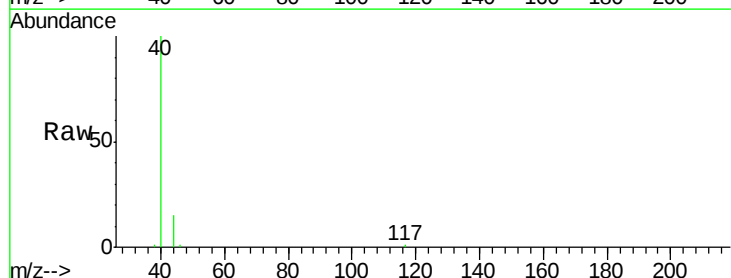
Acq: 19 Mar 2019 13:19

Tgt Ion: 117 Resp: 60

Ion Ratio Lower Upper

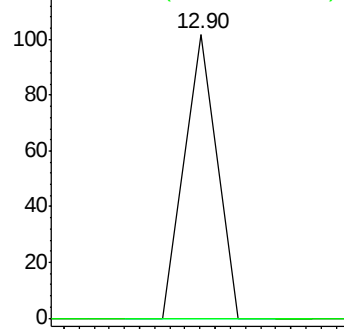
117 100

201 0.0 32.5 97.5#

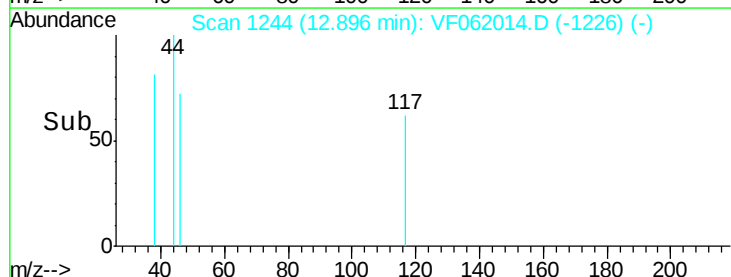


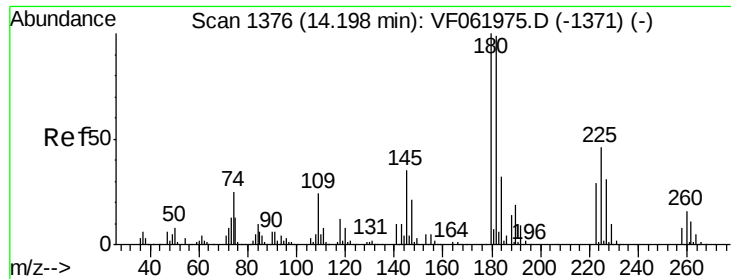
Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



Time-->

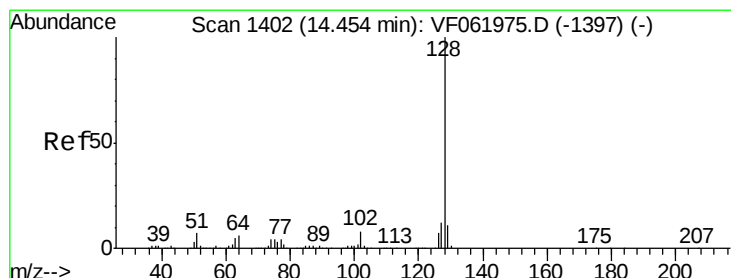
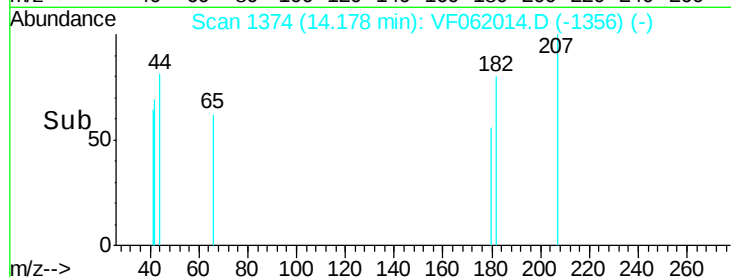
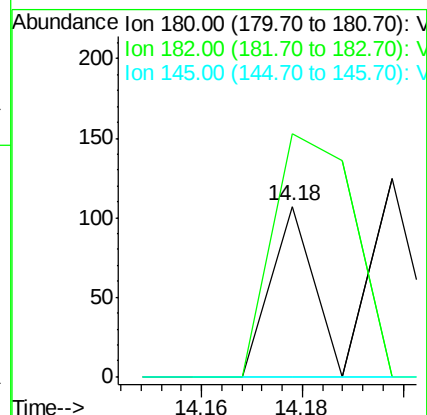
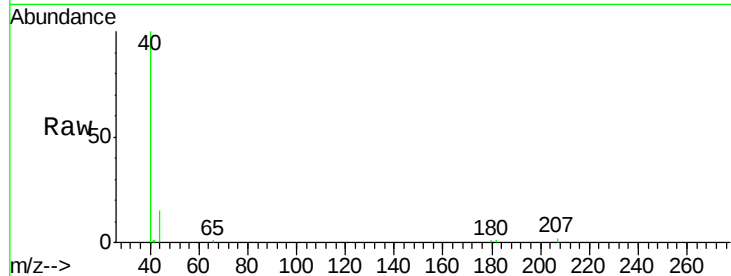




#93
 1,2,4-Trichlorobenzene
 Concen: 1.474 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF062014.D
 Acq: 19 Mar 2019 13:19

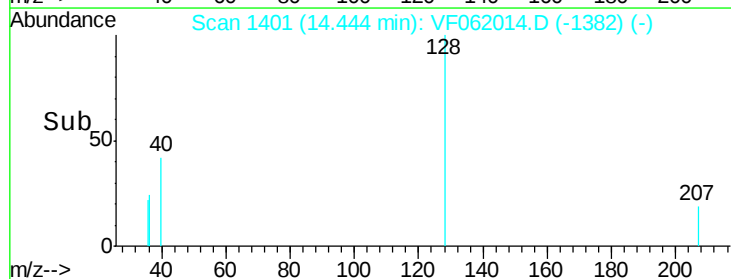
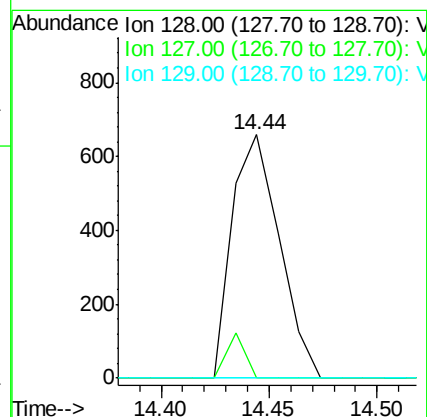
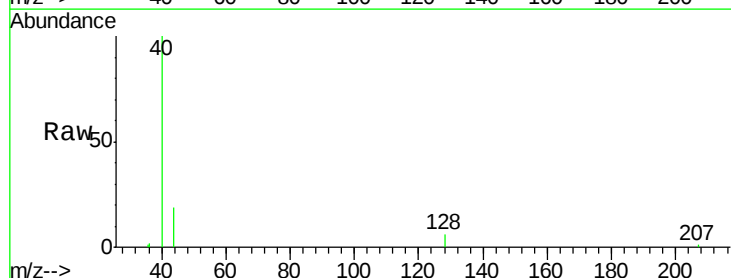
Instrument :
 MSVOA_F
 ClientSampleId :

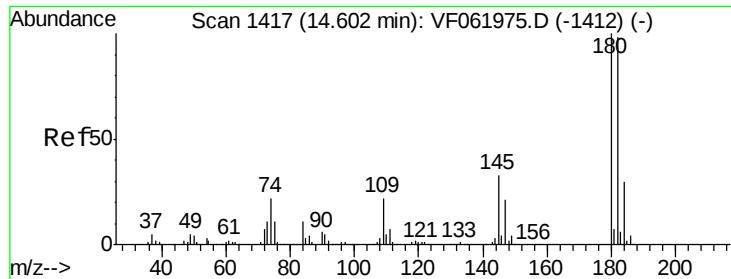
Tot Ion:180 Resp: 63
 Ion Ratio Lower Upper
 180 100
 182 143.0 49.6 149.0
 145 0.0 17.5 52.5#



#95
 Naphthalene
 Concen: 13.123 ug/l
 RT: 14.44 min Scan# 1401
 Delta R.T. -0.01 min
 Lab File: VF062014.D
 Acq: 19 Mar 2019 13:19

Tgt Ion:128 Resp: 1009
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.3 13.9#
 129 0.0 9.1 13.7#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.653 ug/l
 RT: 14.59 min Scan# 1416
 Delta R.T. -0.01 min
 Lab File: VF062014.D
 Acq: 19 Mar 2019 13:19

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	48.9	146.8
145	0.0	16.7	50.1

