

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031819\
 Data File : VF061999.D
 Acq On : 18 Mar 2019 16:03
 Operator : VA/AP
 Sample : K1933-08RE
 Misc : 5.04g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 19 01:22:53 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	4.86	168	9533	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.59	114	9956	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.77	117	4954	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	1050	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	1048	15.27	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	30.54%	
35) Dibromofluoromethane	4.11	113	2533	37.89	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	75.78%	
50) Toluene-d8	7.54	98	9795	50.12	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	100.24%	
62) 4-Bromofluorobenzene	11.40	95	1316	16.95	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	33.90%	

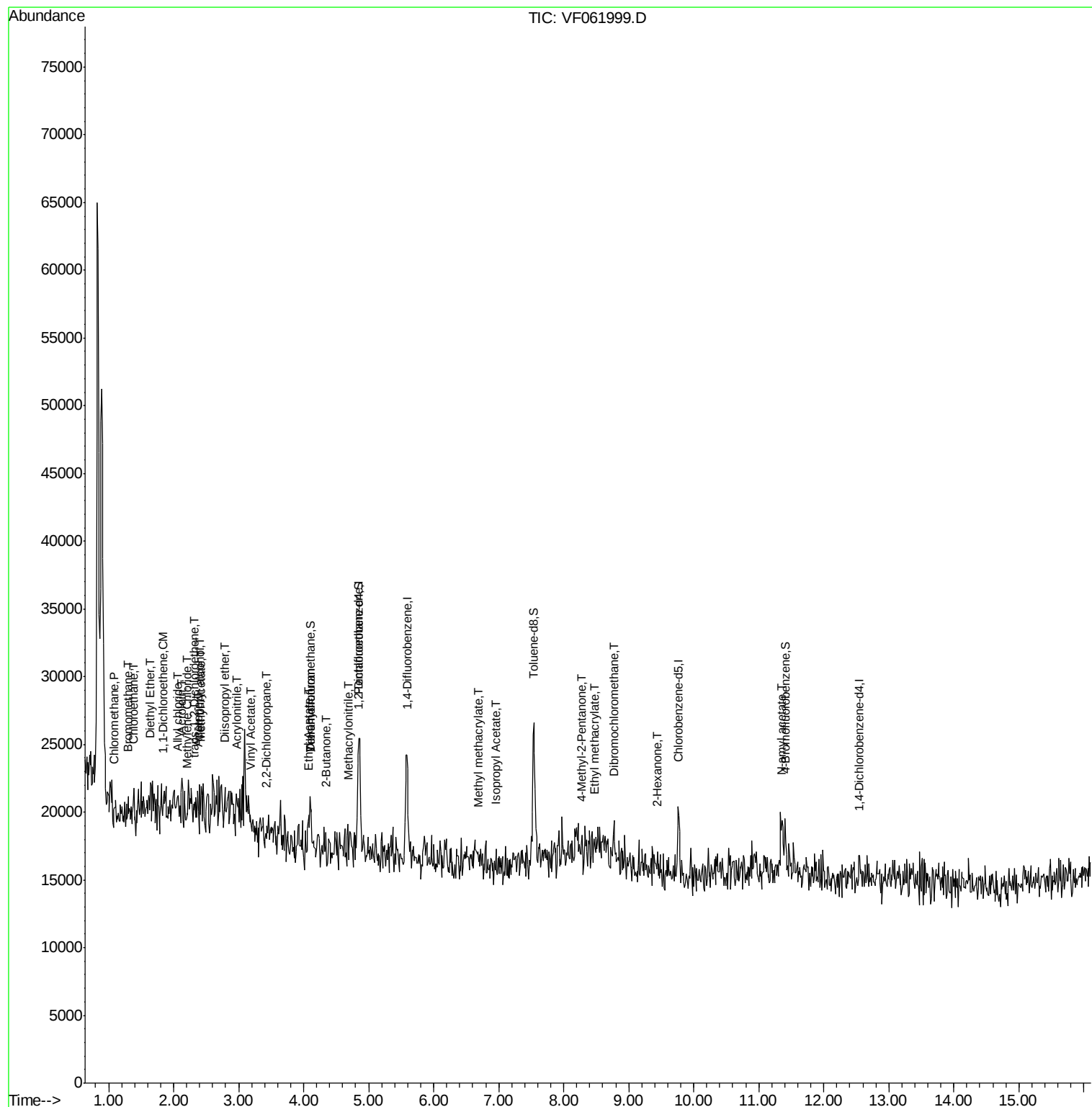
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.07	50	144	1.394	ug/l #	1
5) Bromomethane	1.29	94	409	5.829	ug/l #	3
6) Chloroethane	1.39	64	62	1.202	ug/l #	40
8) Diethyl Ether	1.65	74	59	2.006	ug/l #	1
11) Tert butyl alcohol	2.40	59	66	15.718	ug/l #	1
12) 1,1-Dichloroethene	1.83	96	82	1.019	ug/l #	1
13) Acrolein	2.13	56	288	63.534	ug/l	99
14) Allyl chloride	2.06	41	846	8.237	ug/l #	17
15) Acrylonitrile	2.96	53	313	24.512	ug/l #	18
16) Acetone	2.36	43	518	33.616	ug/l	91
18) Methyl Acetate	2.43	43	604	19.159	ug/l #	63
20) Methylene Chloride	2.20	84	208	2.622	ug/l #	22
21) trans-1,2-Dichloroethene	2.32	96	195	2.322	ug/l #	1
22) Diisopropyl ether	2.79	45	280	1.133	ug/l #	52
23) Vinyl Acetate	3.19	43	342	3.512	ug/l #	77
25) 2-Butanone	4.35	43	66	2.163	ug/l #	51
26) 2,2-Dichloropropane	3.42	77	127	1.874	ug/l #	54
29) Tetrahydrofuran	4.11	42	141	10.624	ug/l #	33
37) Ethyl Acetate	4.08	43	413	10.231	ug/l #	19
41) Methacrylonitrile	4.67	41	81	3.755	ug/l #	22
43) Isopropyl Acetate	6.96	43	411	8.605	ug/l #	38
48) Methyl methacrylate	6.69	41	63	2.041	ug/l #	20
51) 4-Methyl-2-Pentanone	8.26	43	70	2.064	ug/l #	36
56) Ethyl methacrylate	8.48	69	67	1.451	ug/l #	24
59) 2-Hexanone	9.44	43	229	9.329	ug/l #	23
60) Dibromochloromethane	8.78	129	83	1.472	ug/l #	12
74) N-amyl acetate	11.37	43	111	6.678	ug/l #	21

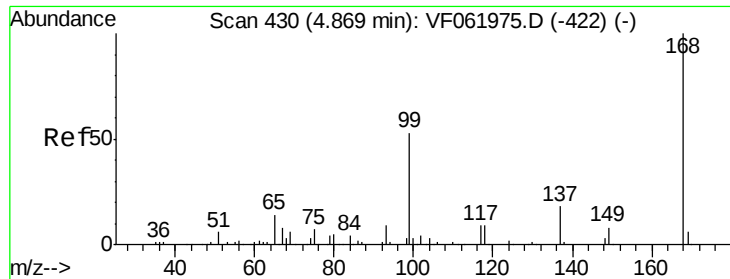
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

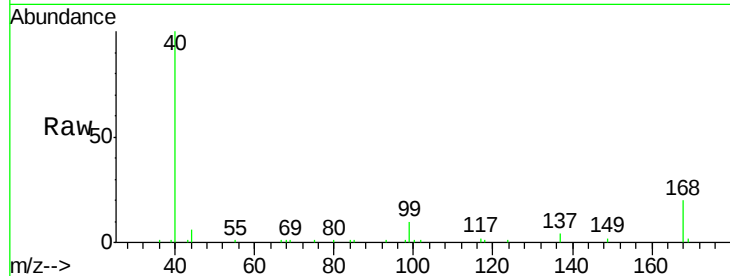
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 9533

Ion Ratio Lower Upper

168 100

99 49.2 42.4 63.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

3000

2000

1000

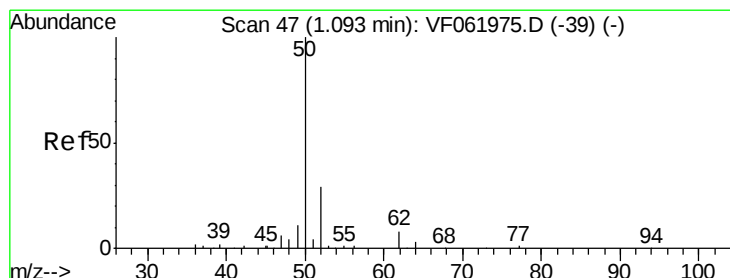
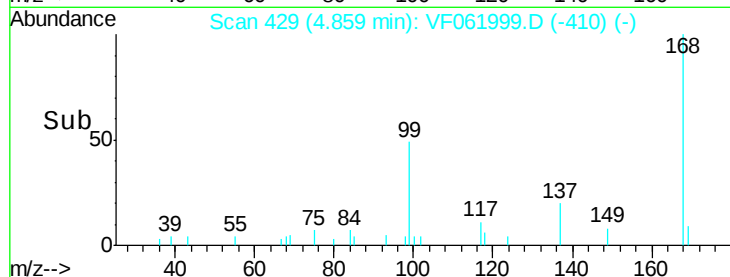
0

Time-->

4.80

4.90

5.00



#3

Chloromethane

Concen: 1.394 ug/l

RT: 1.07 min Scan# 45

Delta R.T. -0.02 min

Lab File: VF061999.D

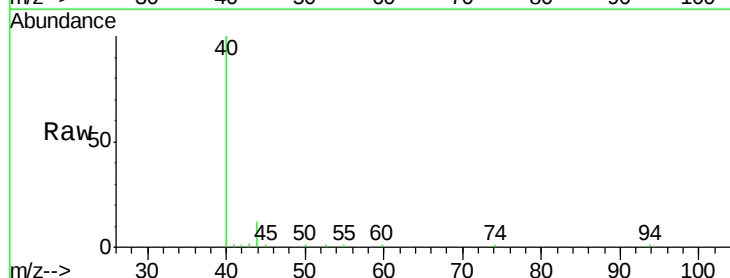
Acq: 18 Mar 2019 16:03

Tgt Ion: 50 Resp: 144

Ion Ratio Lower Upper

50 100

52 92.8 22.6 34.0#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.07

150

100

50

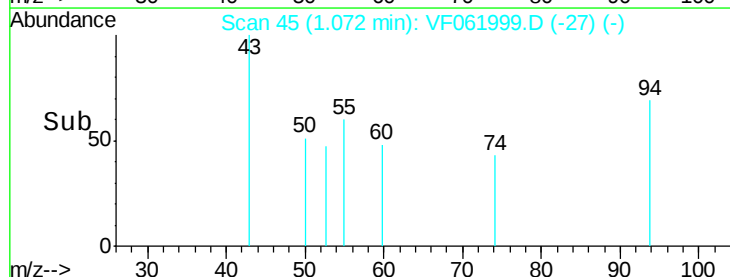
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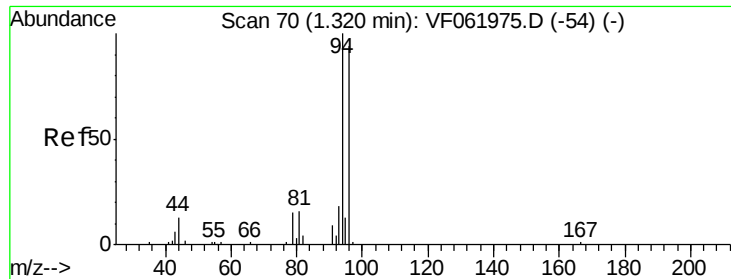
Time-->

1.04

1.06

1.08





#5

Bromomethane

Concen: 5.829 ug/l

RT: 1.29 min Scan# 67

Delta R.T. -0.03 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

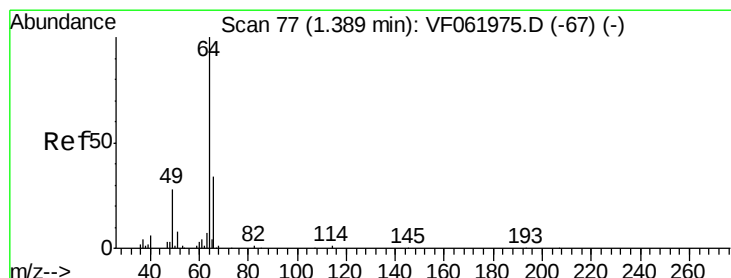
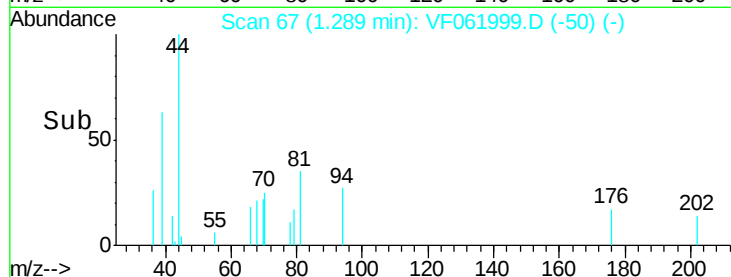
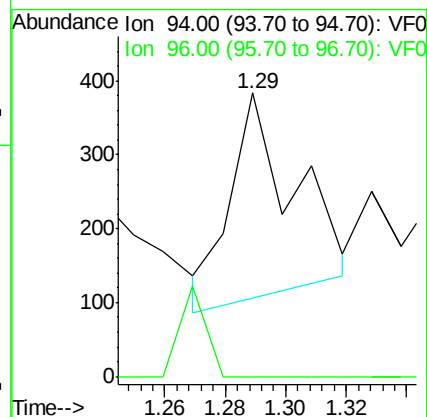
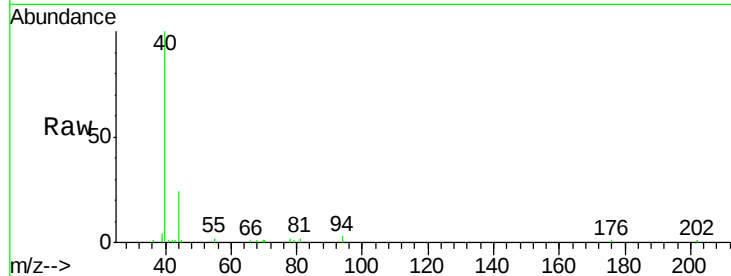
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 94 Resp: 409

Ion Ratio Lower Upper

94 100

96 0.0 75.0 112.6#



#6

Chloroethane

Concen: 1.202 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061999.D

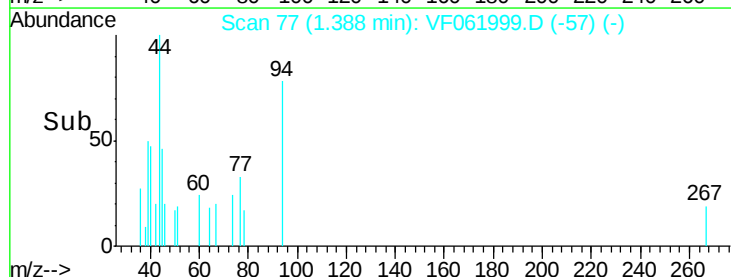
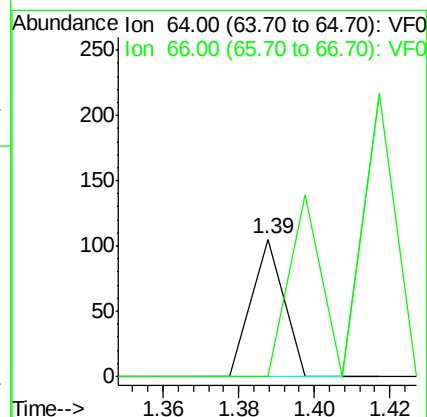
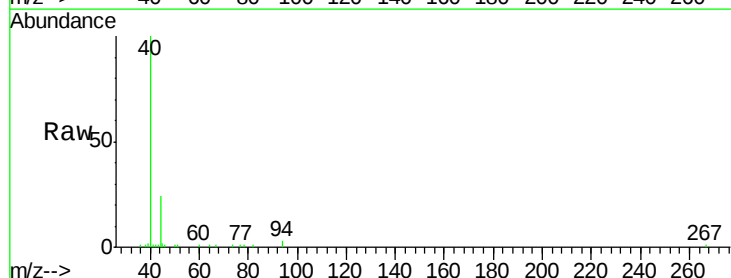
Acq: 18 Mar 2019 16:03

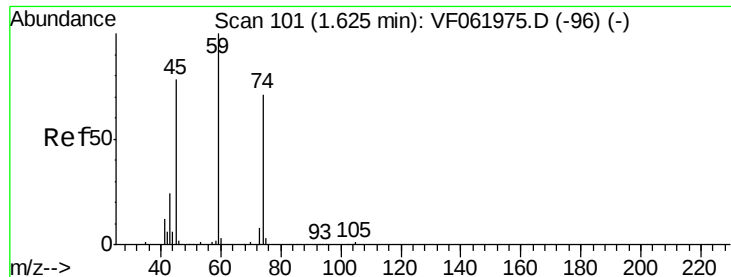
Tgt Ion: 64 Resp: 62

Ion Ratio Lower Upper

64 100

66 0.0 27.6 41.4#





#8

Diethyl Ether

Concen: 2.006 ug/l

RT: 1.65 min Scan# 104

Delta R.T. 0.03 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

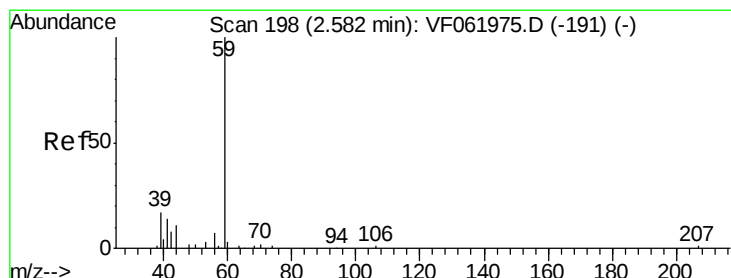
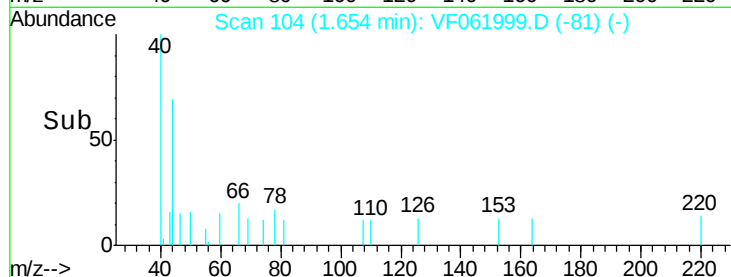
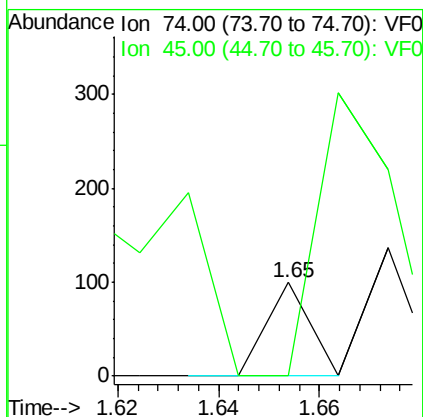
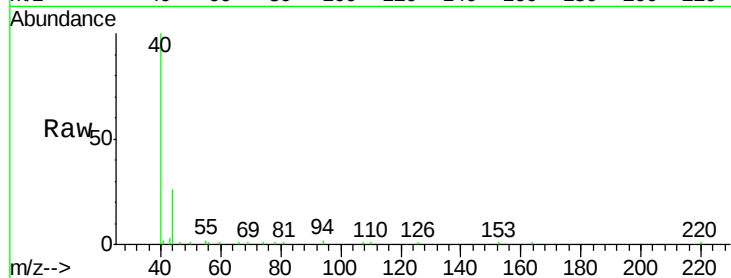
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 59

Ion Ratio Lower Upper

74 100

45 0.0 56.3 168.8#



#11

Tert butyl alcohol

Concen: 15.718 ug/l

RT: 2.40 min Scan# 180

Delta R.T. -0.18 min

Lab File: VF061999.D

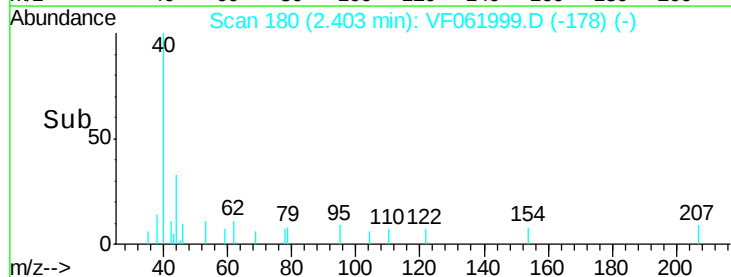
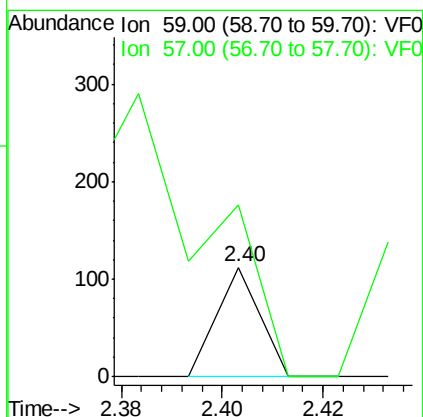
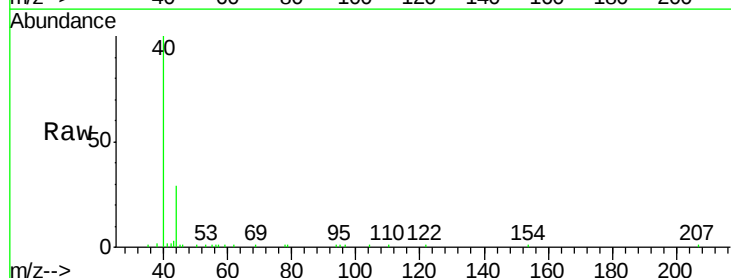
Acq: 18 Mar 2019 16:03

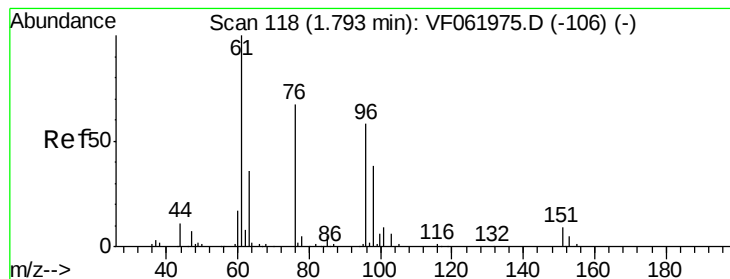
Tgt Ion: 59 Resp: 66

Ion Ratio Lower Upper

59 100

57 157.1 8.7 13.1#





#12

1,1-Dichloroethene

Concen: 1.019 ug/l

RT: 1.83 min Scan# 122

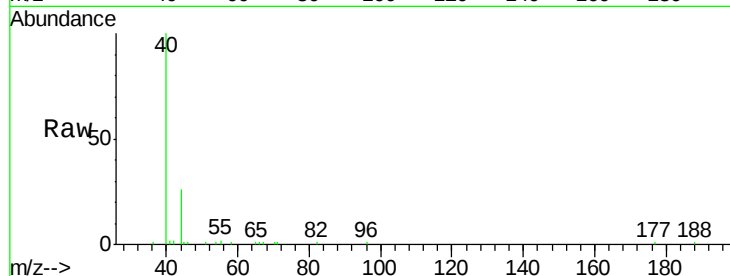
Delta R.T. 0.04 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

Instrument :
MSVOA_F
ClientSampled :

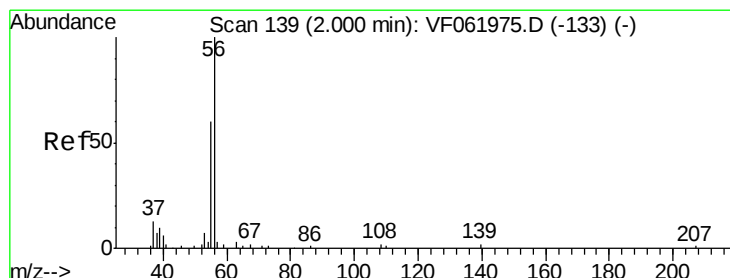
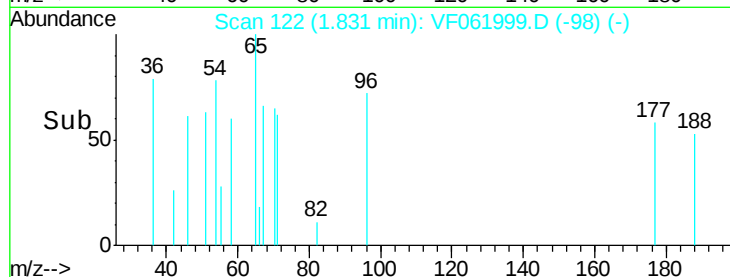
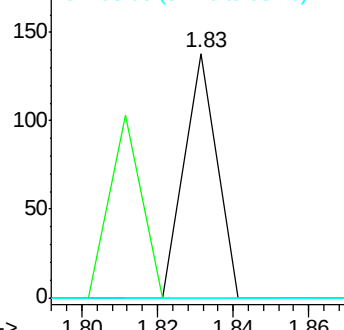
Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	138.6	208.0#
98	0.0	53.2	79.8#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#13

Acrolein

Concen: 63.534 ug/l

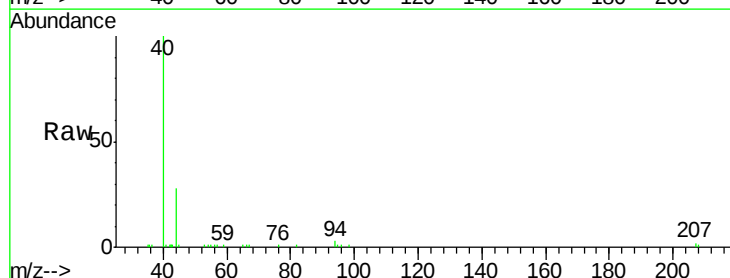
RT: 2.13 min Scan# 152

Delta R.T. 0.13 min

Lab File: VF061999.D

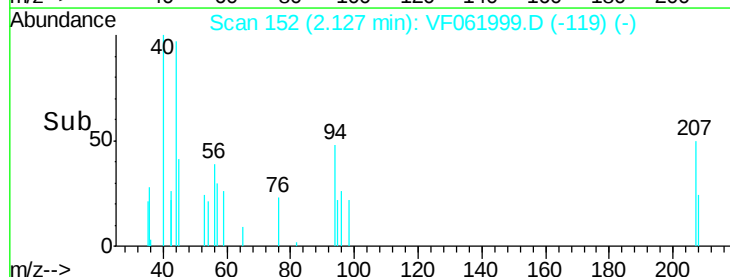
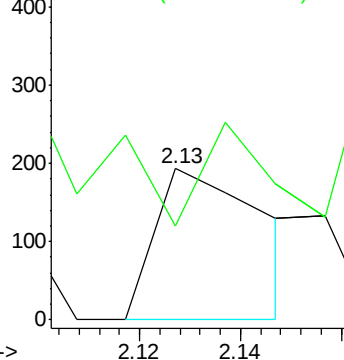
Acq: 18 Mar 2019 16:03

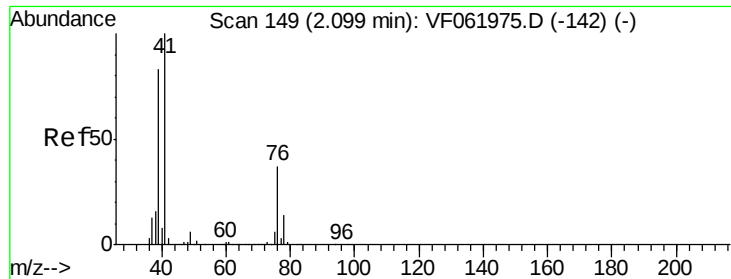
Tgt Ion	Ratio	Lower	Upper
56	100		
55	62.2	49.1	73.7



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#14

Allvl chloride

Concen: 8.237 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.04 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

Instrument :
MSVOA_F
ClientSampled :

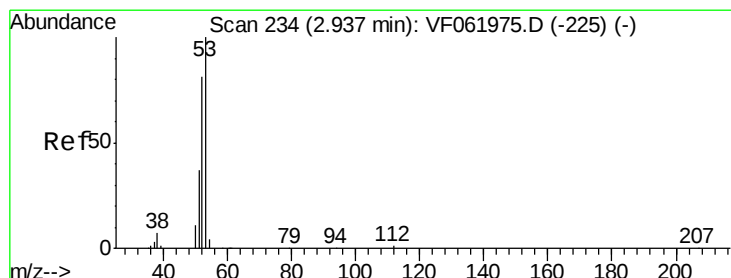
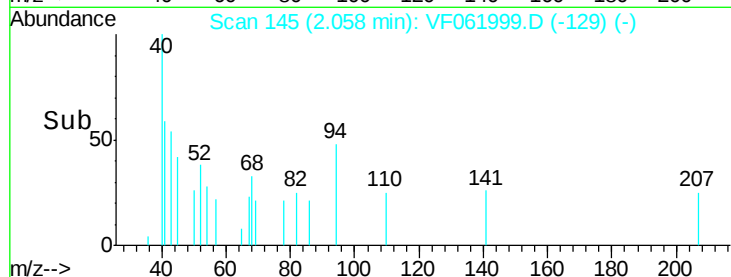
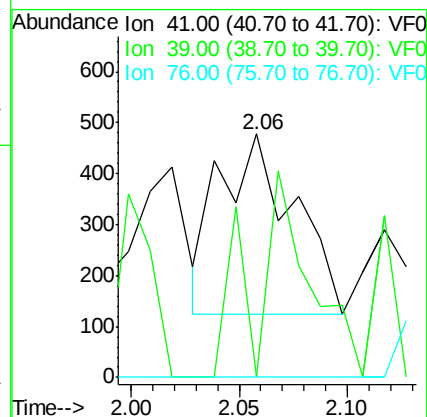
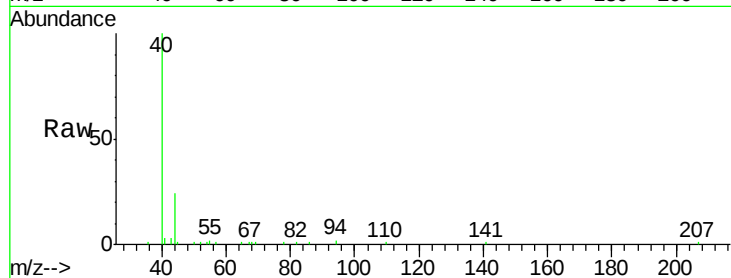
Tot Ion: 41 Resp: 846

Ion Ratio Lower Upper

41 100

39 0.0 66.8 100.2#

76 0.0 31.1 46.7#



#15

Acrylonitrile

Concen: 24.512 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.02 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

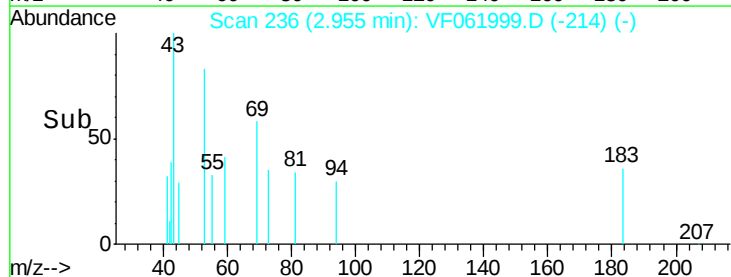
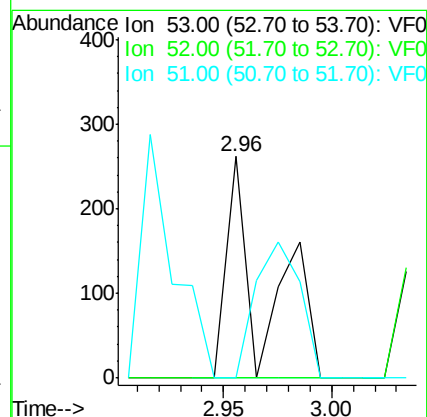
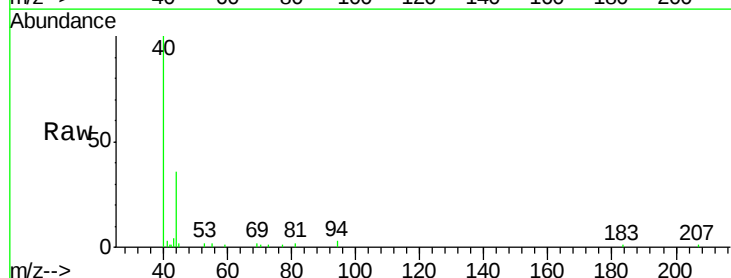
Tgt Ion: 53 Resp: 313

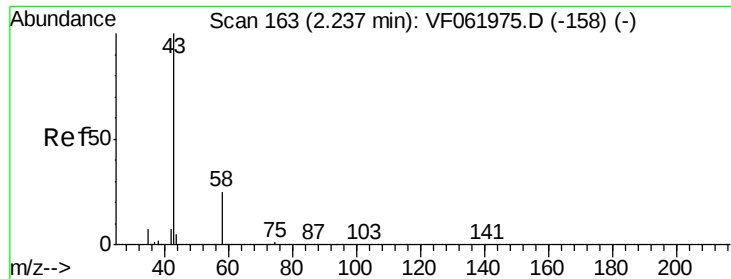
Ion Ratio Lower Upper

53 100

52 0.0 64.4 96.6#

51 0.0 30.3 45.5#





#16

Acetone

Concen: 33.616 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.13 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

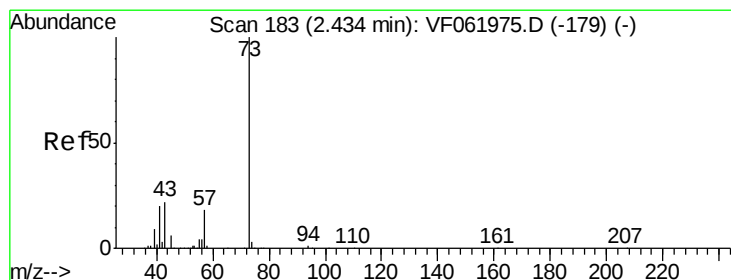
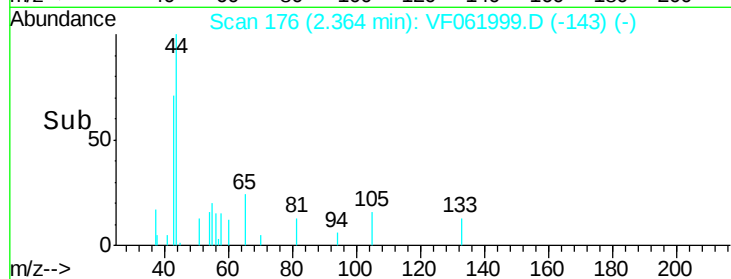
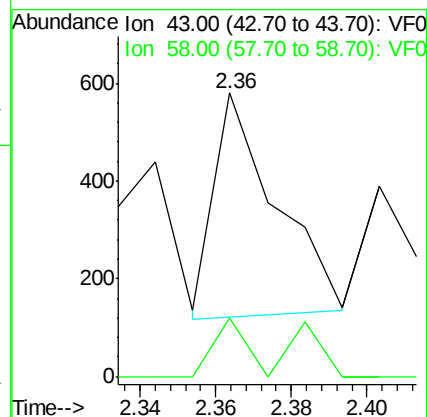
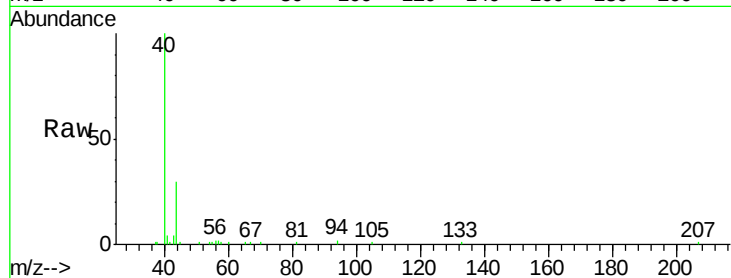
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 518

Ion Ratio Lower Upper

43 100

58 20.5 19.9 29.9



#18

Methyl Acetate

Concen: 19.159 ug/l

RT: 2.43 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF061999.D

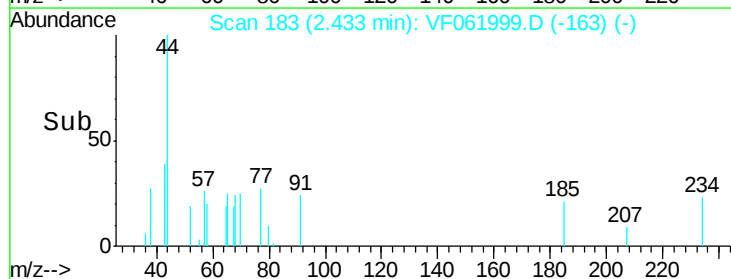
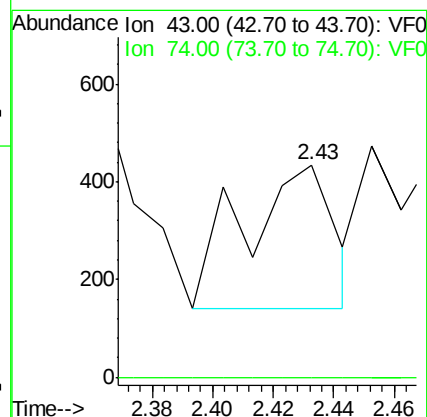
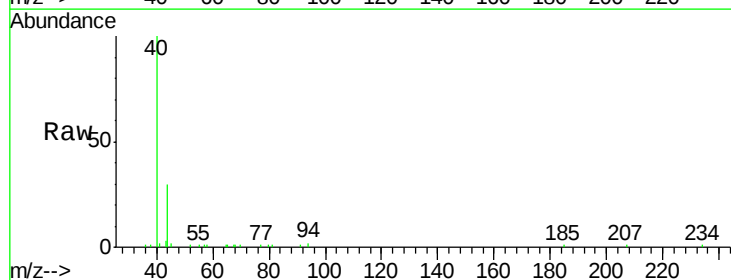
Acq: 18 Mar 2019 16:03

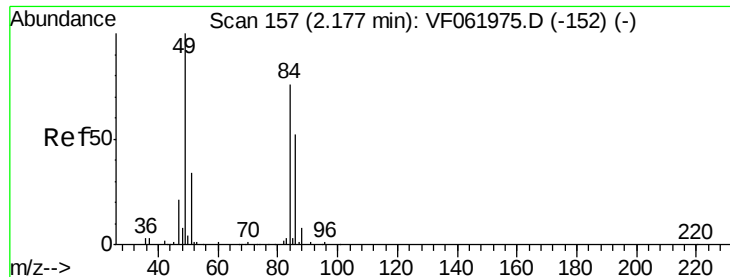
Tgt Ion: 43 Resp: 604

Ion Ratio Lower Upper

43 100

74 0.0 12.6 18.8#

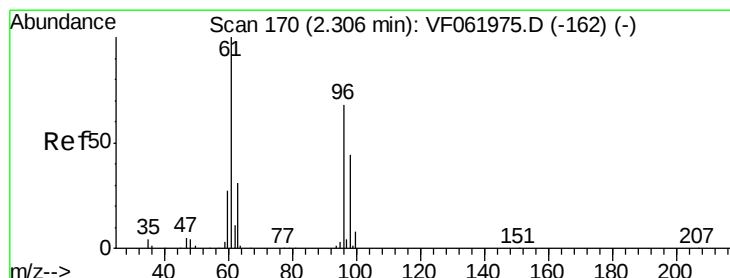
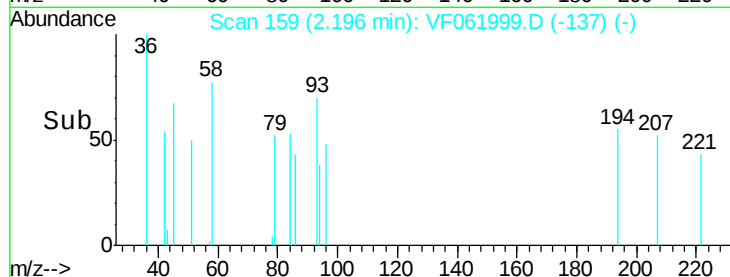
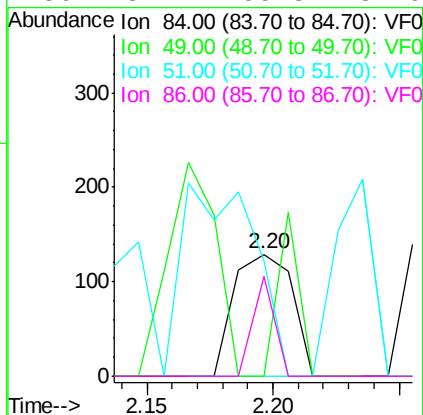
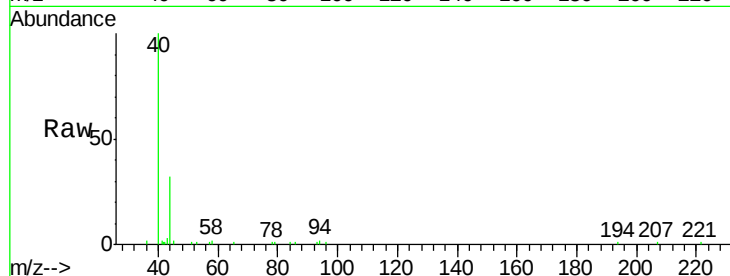




#20
Methvlene Chloride
Concen: 2.622 ug/l
RT: 2.20 min Scan# 159
Delta R.T. 0.02 min
Lab File: VF061999.D
Acq: 18 Mar 2019 16:03

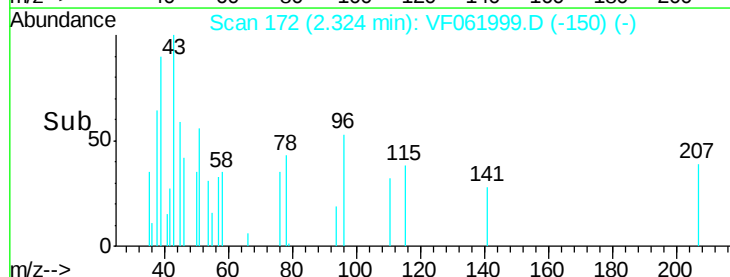
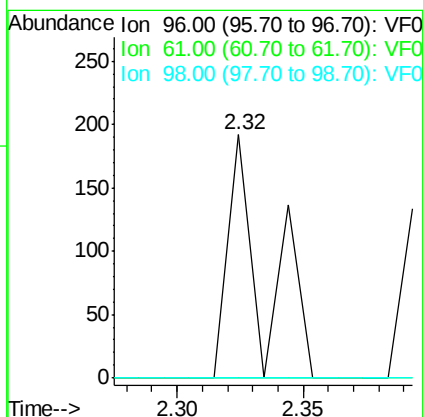
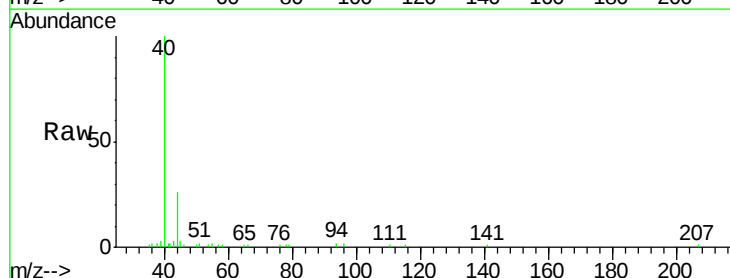
Instrument :
MSVOA_F
ClientSampled :

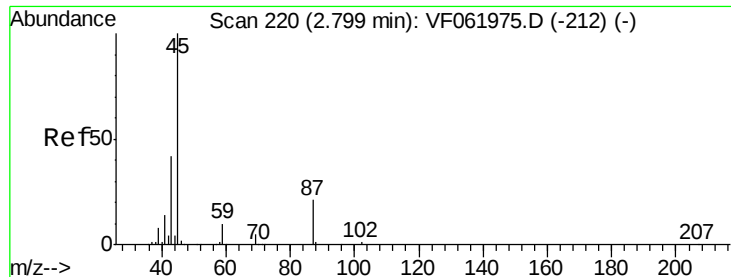
Tot Ion: 84 Resp: 208
Ion Ratio Lower Upper
84 100
49 0.0 107.0 160.6#
51 94.6 37.2 55.8#
86 81.4 55.3 82.9



#21
trans-1,2-Dichloroethene
Concen: 2.322 ug/l
RT: 2.32 min Scan# 172
Delta R.T. 0.02 min
Lab File: VF061999.D
Acq: 18 Mar 2019 16:03

Tgt Ion: 96 Resp: 195
Ion Ratio Lower Upper
96 100
61 0.0 117.4 176.2#
98 0.0 51.2 76.8#





#22

Diisopropyl ether

Concen: 1.133 ug/l

RT: 2.79 min Scan# 219

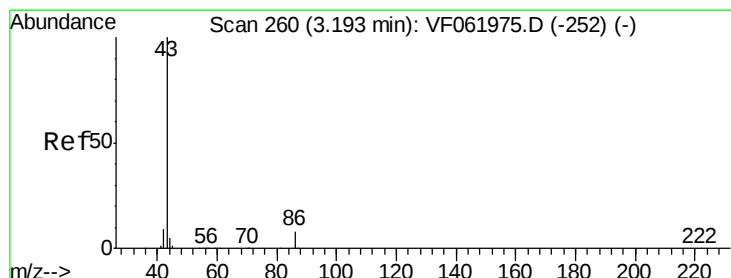
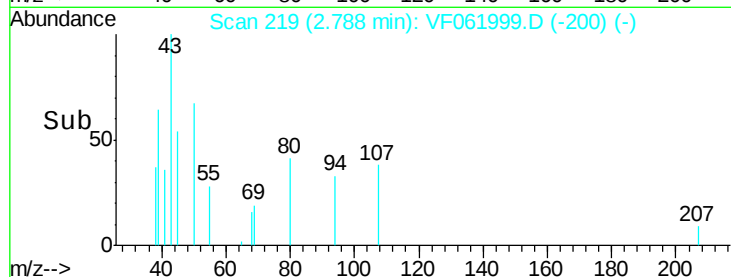
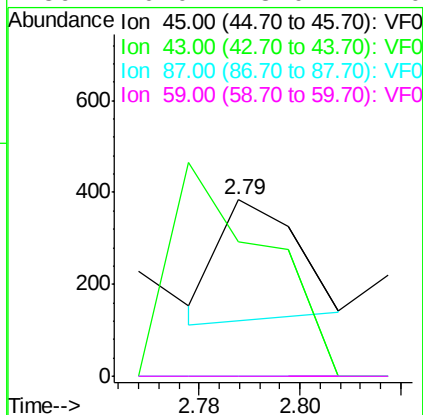
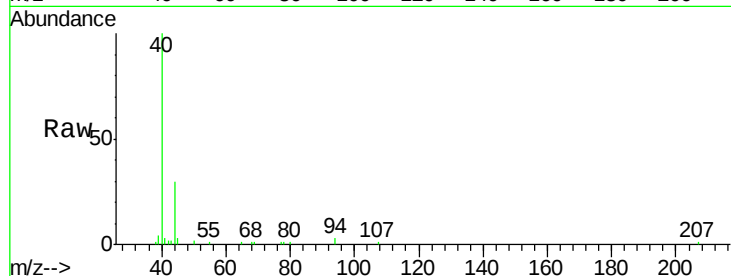
Delta R.T. -0.01 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	45	Resp:	280
Ion	Ratio	Lower	Upper
45	100		
43	76.0	33.7	50.5#
87	0.0	17.1	25.7#
59	0.0	8.0	12.0#



#23

Vinyl Acetate

Concen: 3.512 ug/l

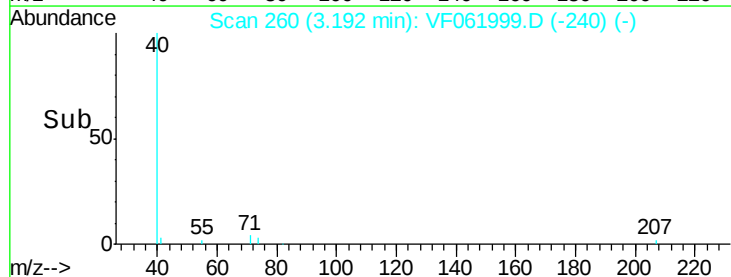
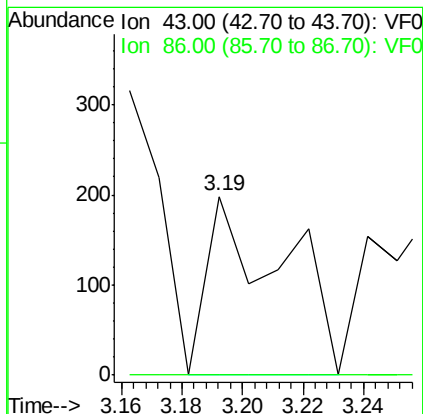
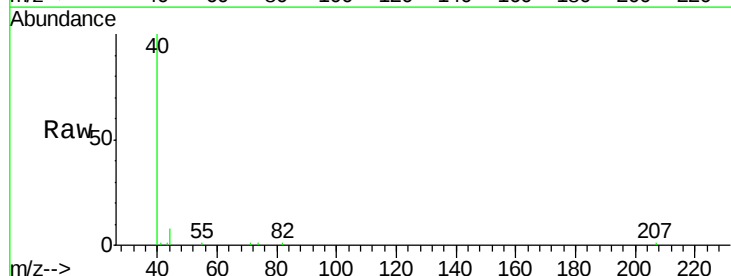
RT: 3.19 min Scan# 260

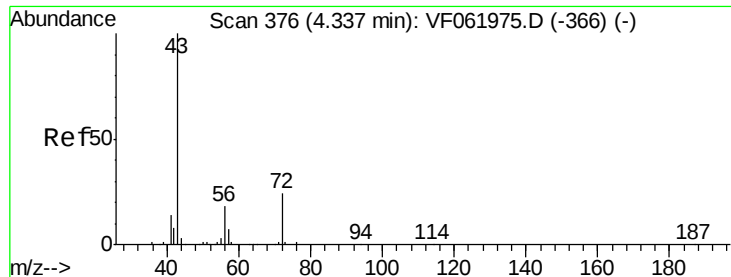
Delta R.T. -0.00 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

Tgt Ion:	43	Resp:	342
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#





#25

2-Butanone

Concen: 2.163 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_F

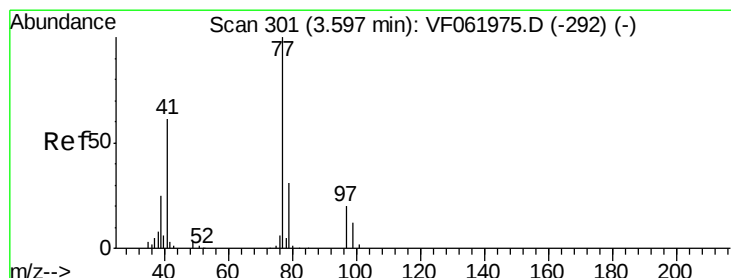
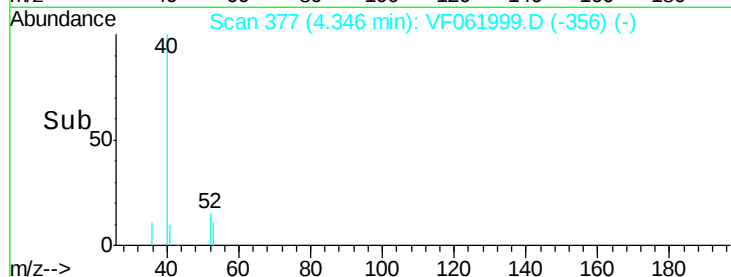
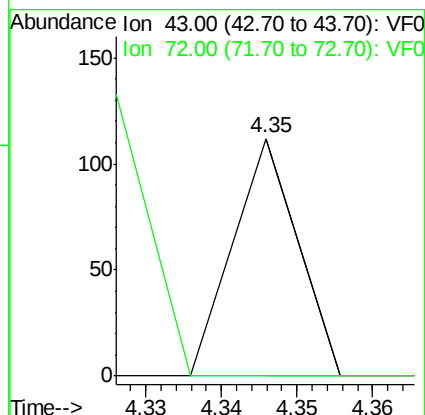
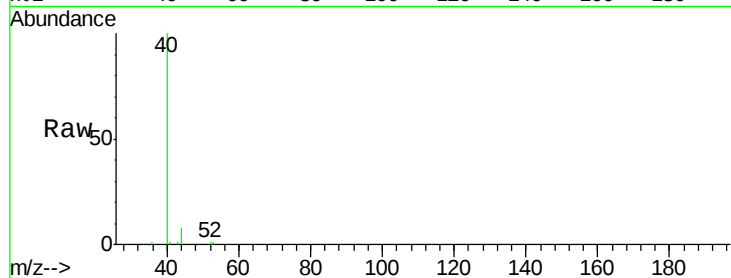
ClientSampled :

Tot Ion: 43 Resp: 66

Ion Ratio Lower Upper

43 100

72 0.0 19.8 29.6#



#26

2,2-Dichloropropane

Concen: 1.874 ug/l

RT: 3.42 min Scan# 283

Delta R.T. -0.18 min

Lab File: VF061999.D

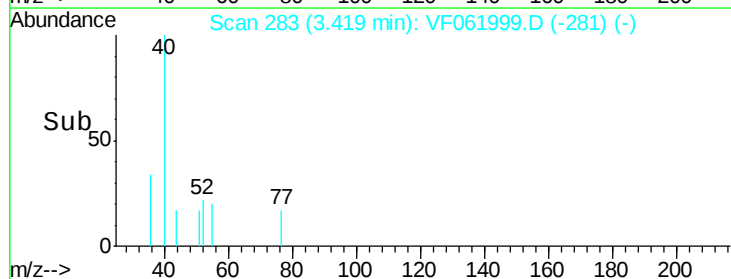
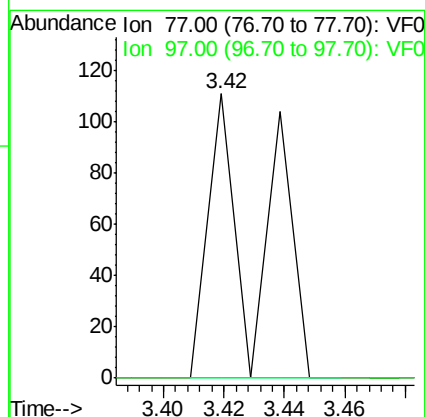
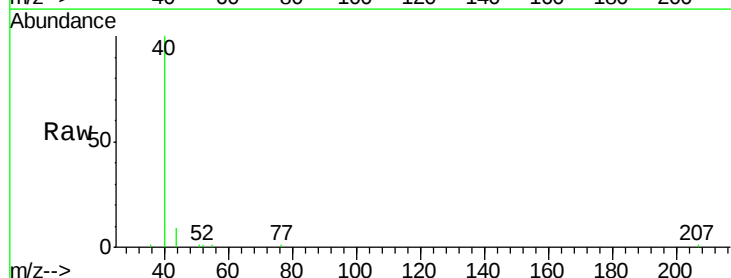
Acq: 18 Mar 2019 16:03

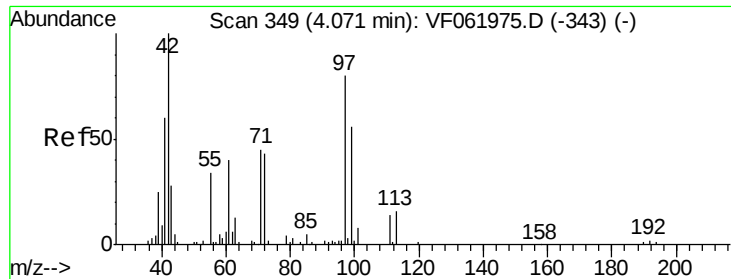
Tgt Ion: 77 Resp: 127

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#

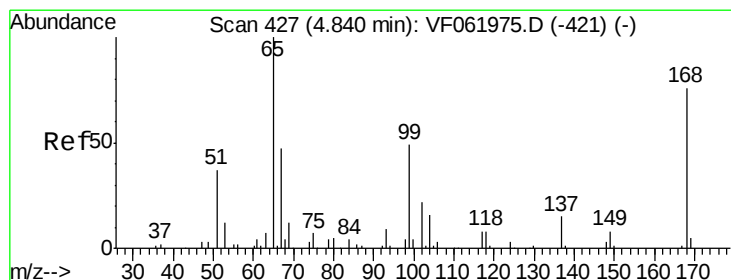
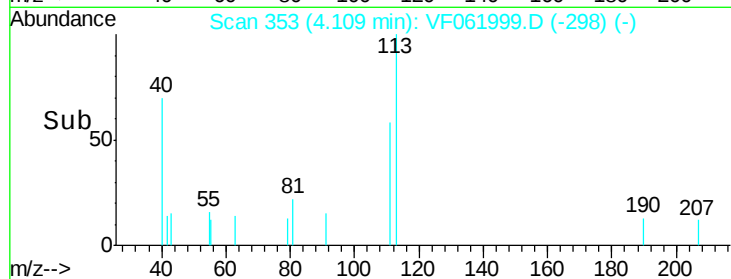
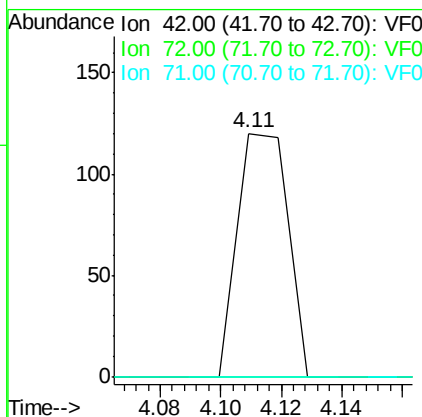
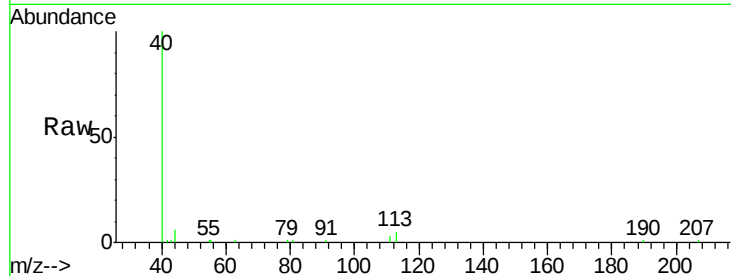




#29
Tetrahydrofuran
Concen: 10.624 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.04 min
Lab File: VF061999.D
Acq: 18 Mar 2019 16:03

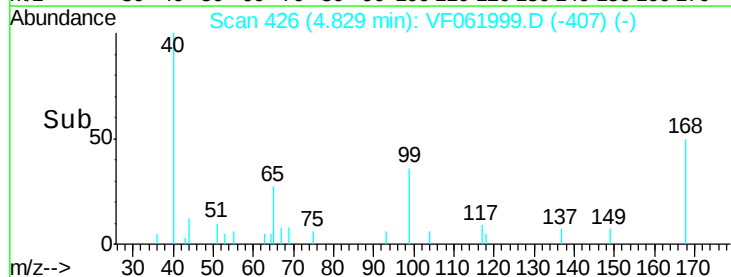
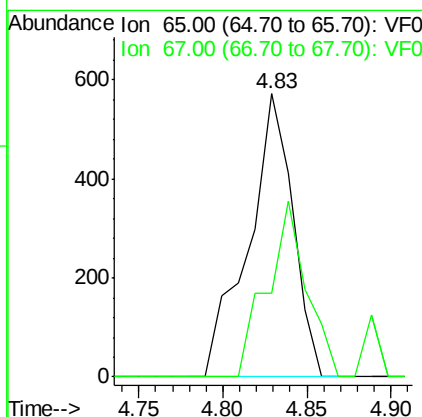
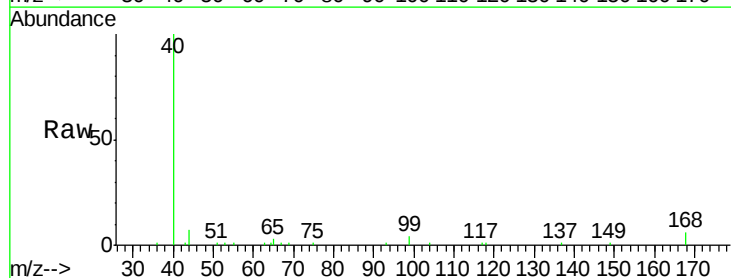
Instrument :
MSVOA_F
ClientSampleId :

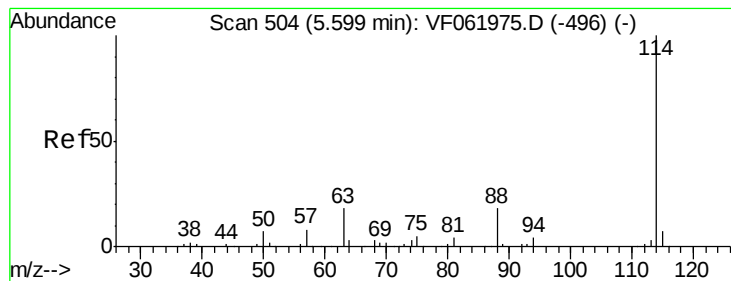
Tot Ion: 42 Resp: 141
Ion Ratio Lower Upper
42 100
72 0.0 34.0 51.0#
71 0.0 34.2 51.4#



#33
1,2-Dichloroethane-d4
Concen: 15.272 ug/l
RT: 4.83 min Scan# 426
Delta R.T. -0.01 min
Lab File: VF061999.D
Acq: 18 Mar 2019 16:03

Tgt Ion: 65 Resp: 1048
Ion Ratio Lower Upper
65 100
67 29.4 0.0 109.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

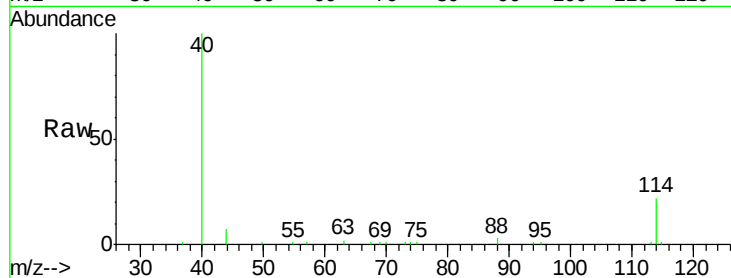
Tot Ion:114 Resp: 9956

Ion Ratio Lower Upper

114 100

63 11.2 0.0 36.4

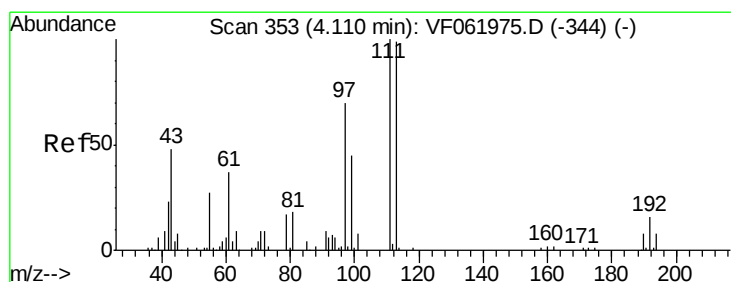
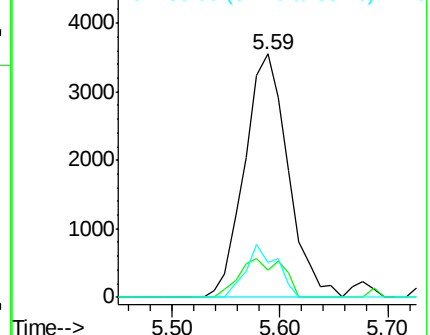
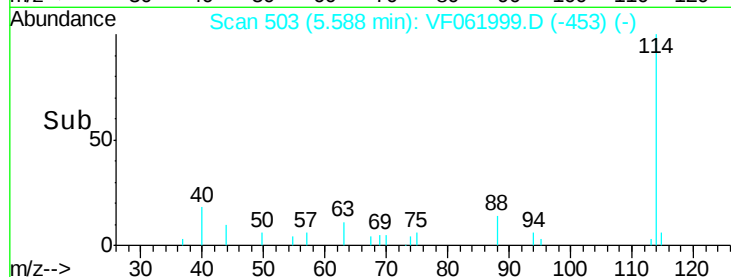
88 14.4 0.0 36.4



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: 37.887 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

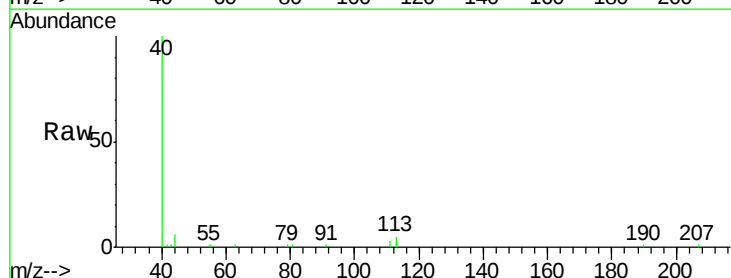
Tgt Ion:113 Resp: 2533

Ion Ratio Lower Upper

113 100

111 58.3 80.8 121.2#

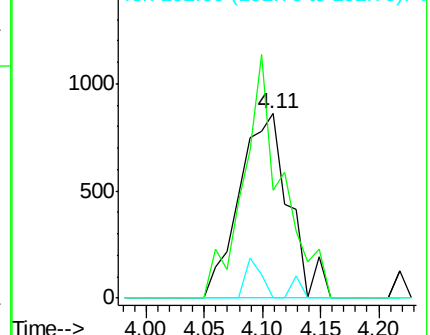
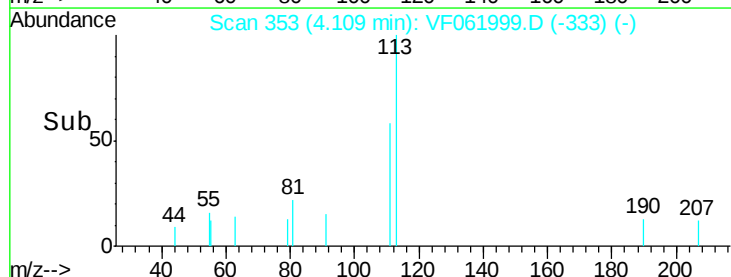
192 0.0 13.0 19.6#

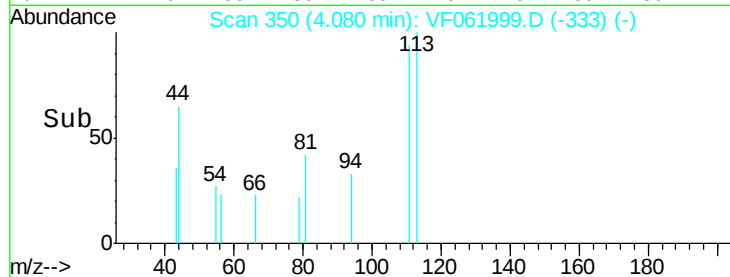
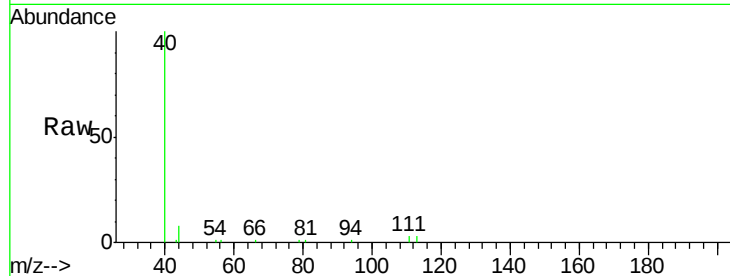
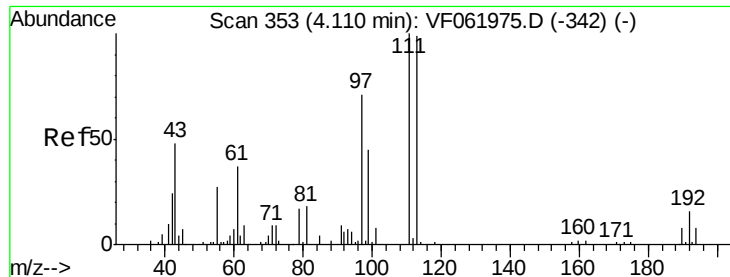


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

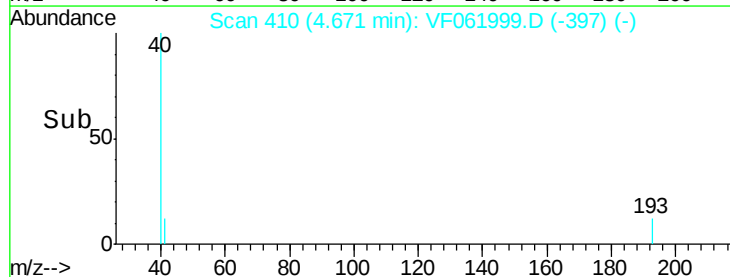
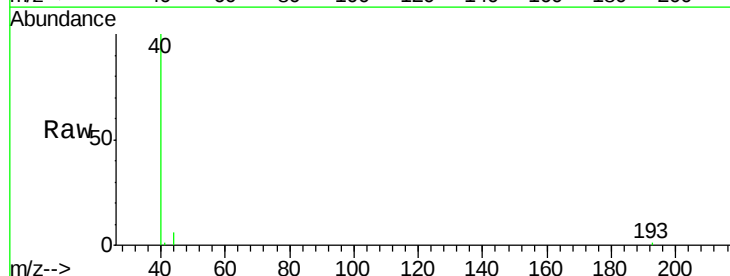
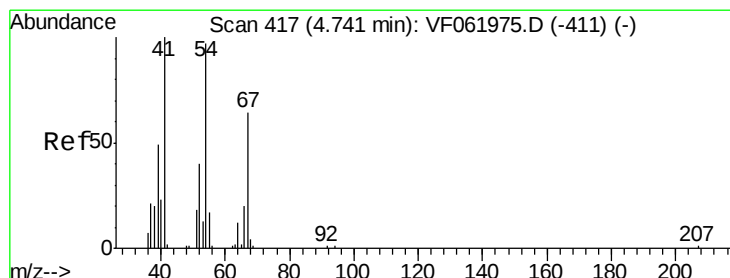
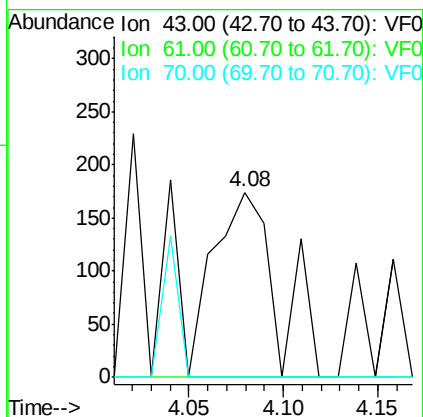




#37
Ethyl Acetate
Concen: 10.231 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.03 min
Lab File: VF061999.D
Acq: 18 Mar 2019 16:03

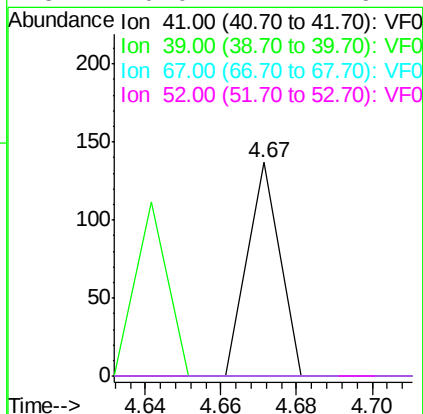
Instrument :
MSVOA_F
ClientSampleId :

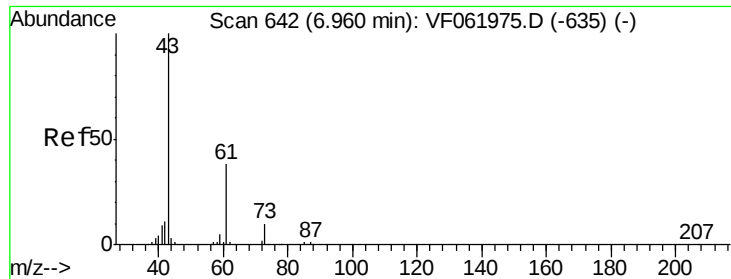
Tot Ion: 43 Resp: 413
Ion Ratio Lower Upper
43 100
61 0.0 59.8 89.6#
70 0.0 7.8 11.8#



#41
Methacrylonitrile
Concen: 3.755 ug/l
RT: 4.67 min Scan# 410
Delta R.T. -0.07 min
Lab File: VF061999.D
Acq: 18 Mar 2019 16:03

Tgt Ion: 41 Resp: 81
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#





#43

Isopropyl Acetate

Concen: 8.605 ug/l

RT: 6.96 min Scan# 642

Delta R.T. -0.00 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

Instrument :

MSVOA_F

ClientSampled :

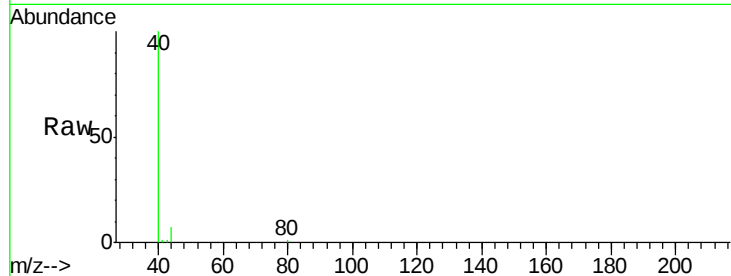
Tot Ion: 43 Resp: 411

Ion Ratio Lower Upper

43 100

61 0.0 30.1 45.1#

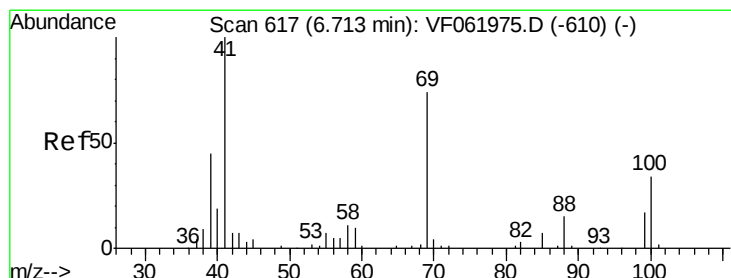
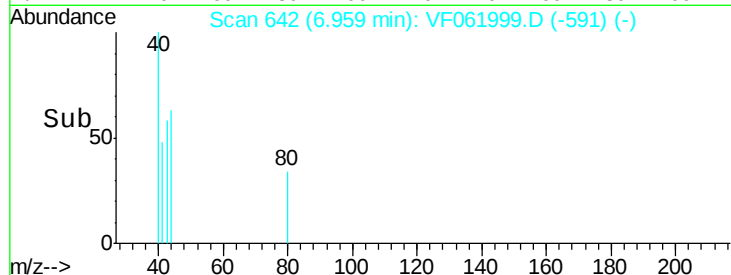
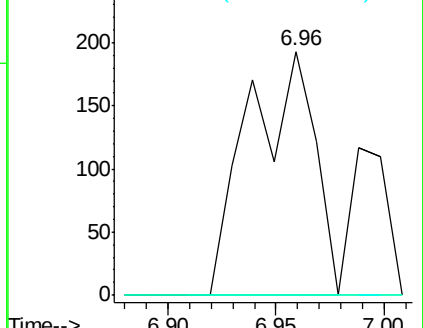
87 0.0 0.4 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#48

Methyl methacrylate

Concen: 2.041 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.02 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

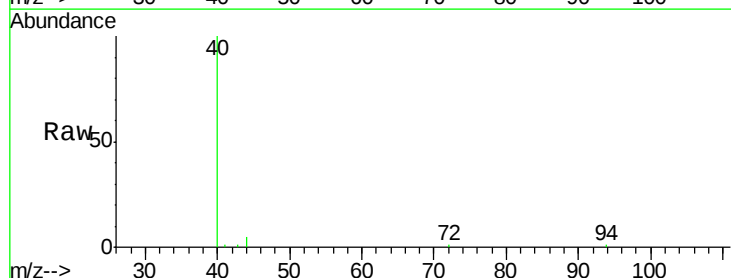
Tgt Ion: 41 Resp: 63

Ion Ratio Lower Upper

41 100

69 0.0 59.0 88.6#

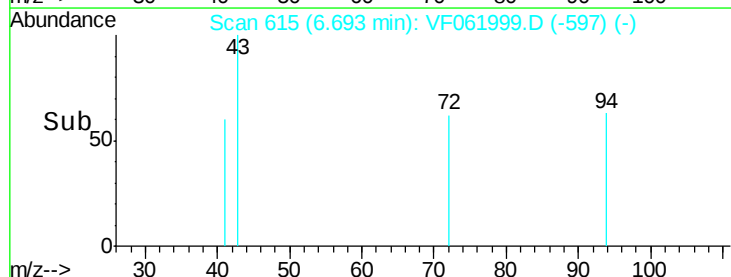
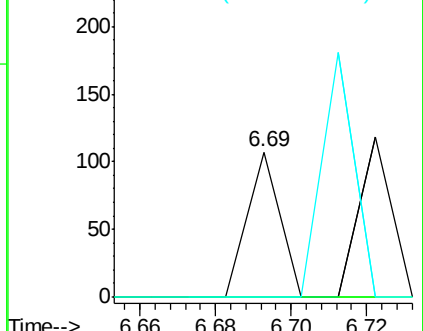
39 0.0 35.6 53.4#

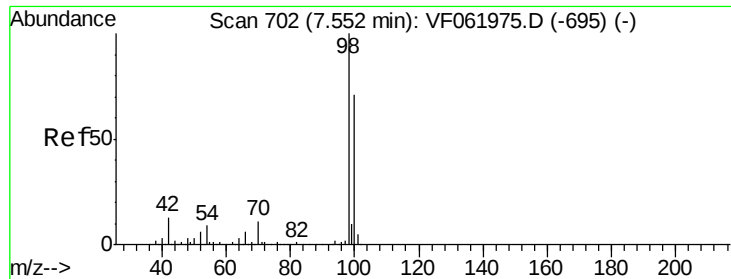


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

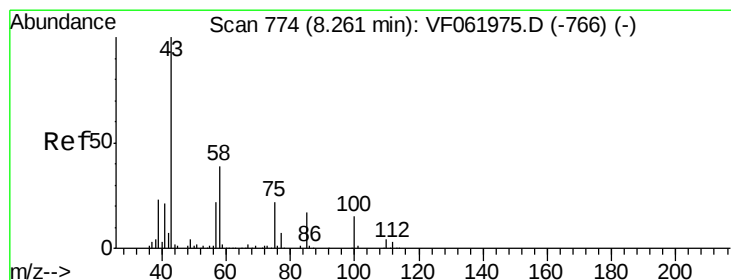
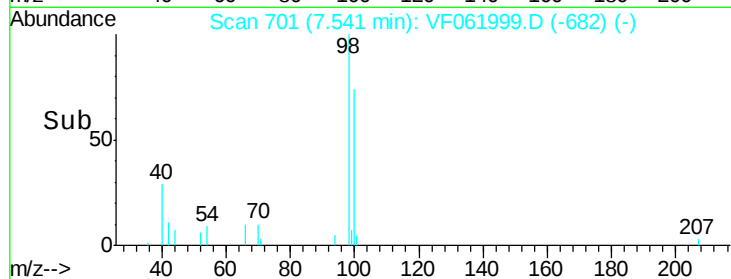
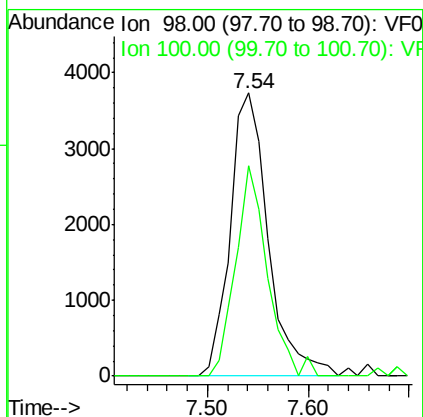
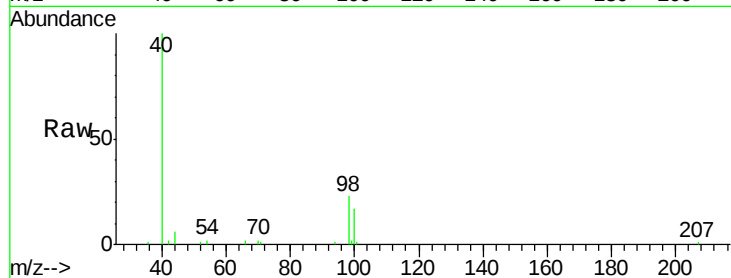




#50
Toluene-d8
Concen: 50.117 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.01 min
Lab File: VF061999.D
Acq: 18 Mar 2019 16:03

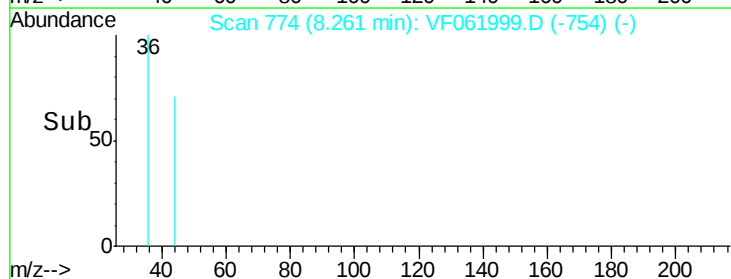
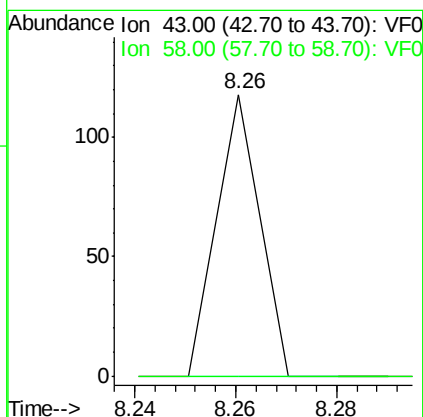
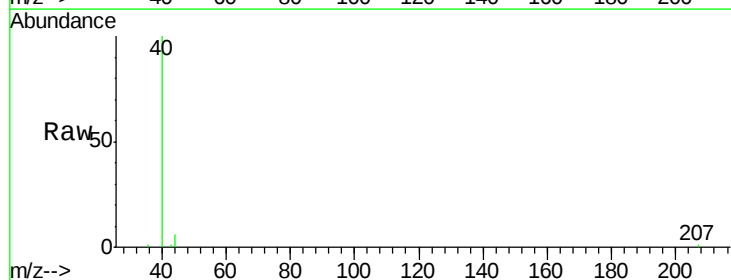
Instrument :
MSVOA_F
ClientSampleId :

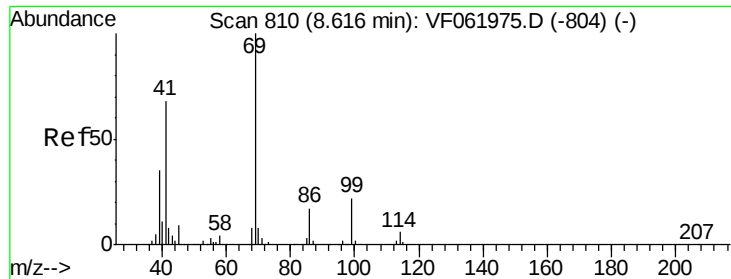
Tot Ion: 98 Resp: 9795
Ion Ratio Lower Upper
98 100
100 74.4 56.8 85.2



#51
4-Methyl-2-Pentanone
Concen: 2.064 ug/l
RT: 8.26 min Scan# 774
Delta R.T. -0.00 min
Lab File: VF061999.D
Acq: 18 Mar 2019 16:03

Tgt Ion: 43 Resp: 70
Ion Ratio Lower Upper
43 100
58 0.0 31.1 46.7#





#56

Ethyl methacrylate

Concen: 1.451 ug/l

RT: 8.48 min Scan# 796

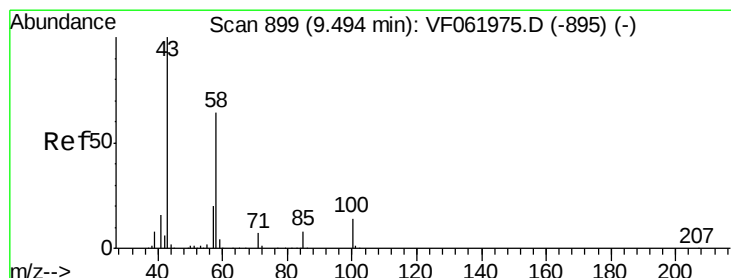
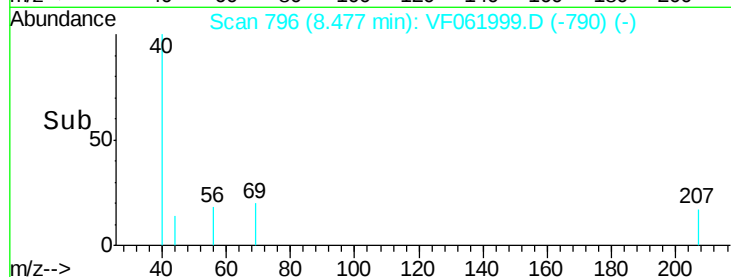
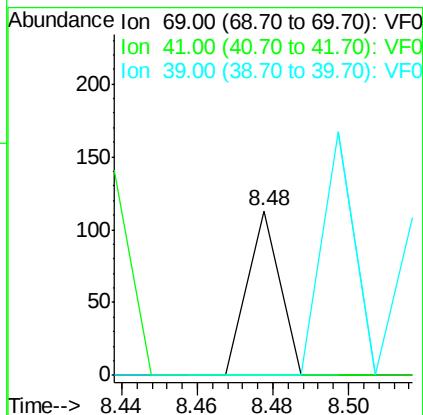
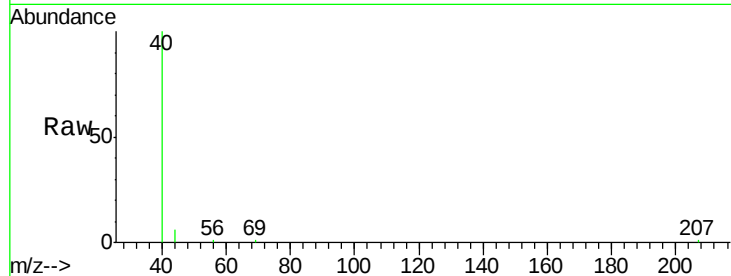
Delta R.T. -0.14 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	54.7	82.1#
39	0.0	27.9	41.9#



#59

2-Hexanone

Concen: 9.329 ug/l

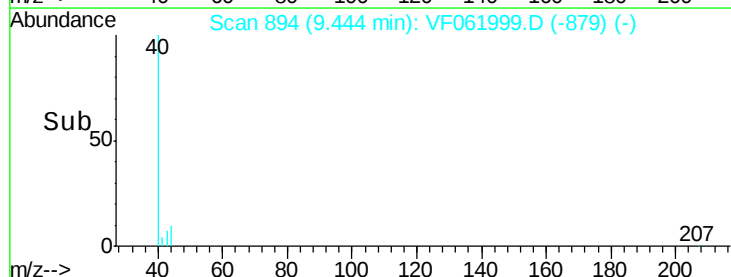
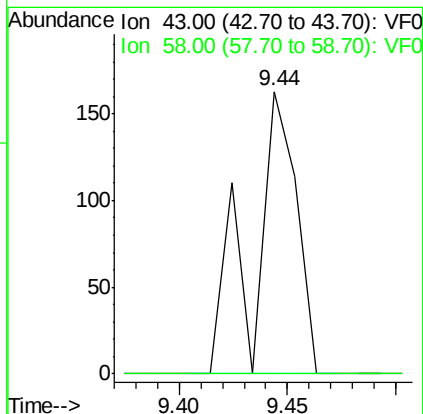
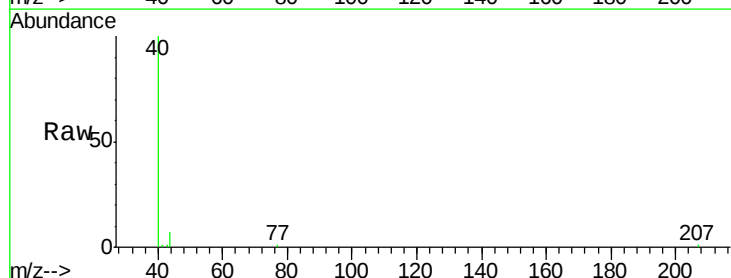
RT: 9.44 min Scan# 894

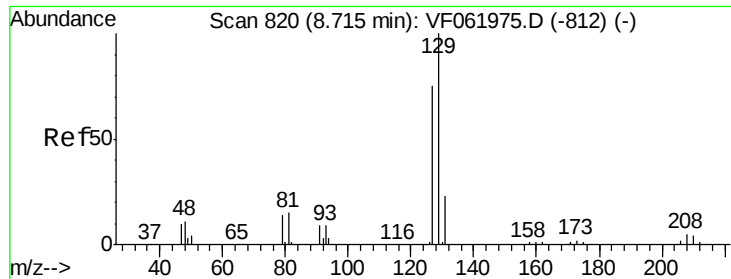
Delta R.T. -0.05 min

Lab File: VF061999.D

Acq: 18 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	85.2#

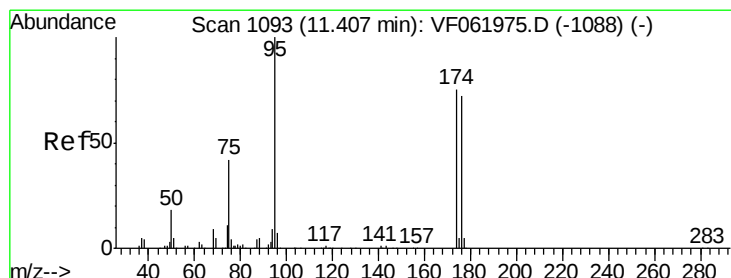
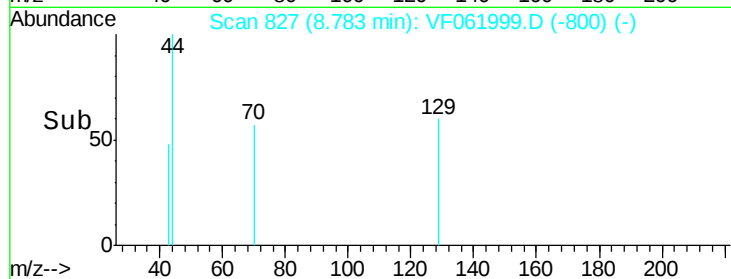
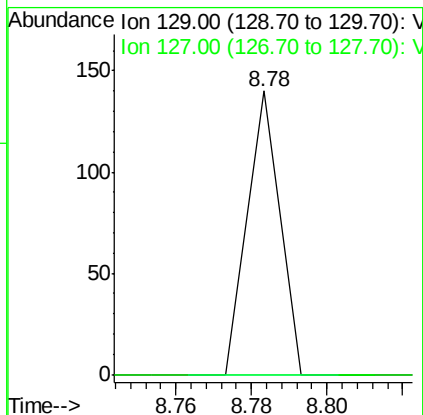
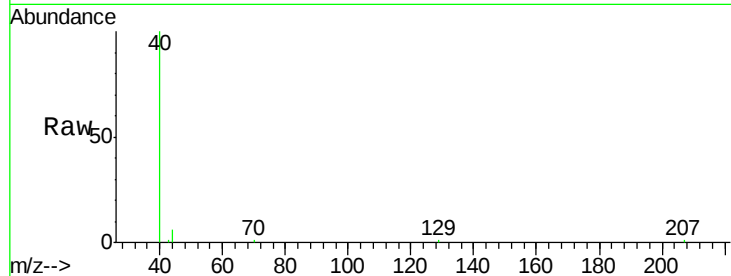




#60
 Dibromochloromethane
 Concen: 1.472 ug/l
 RT: 8.78 min Scan# 827
 Delta R.T. 0.07 min
 Lab File: VF061999.D
 Acq: 18 Mar 2019 16:03

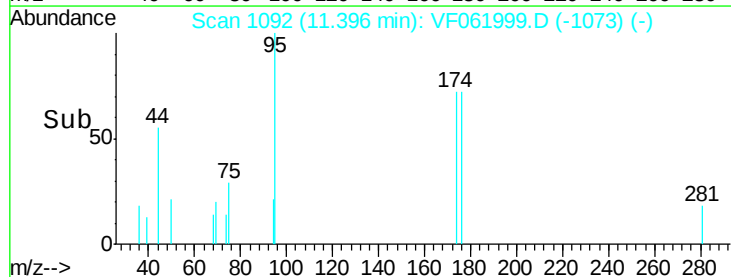
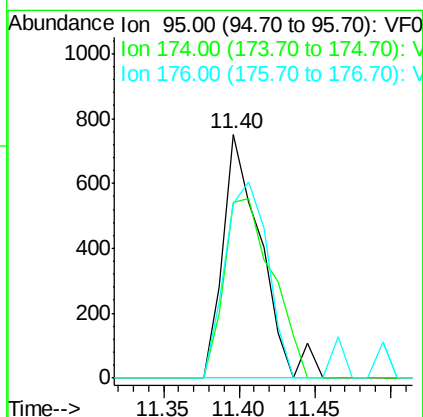
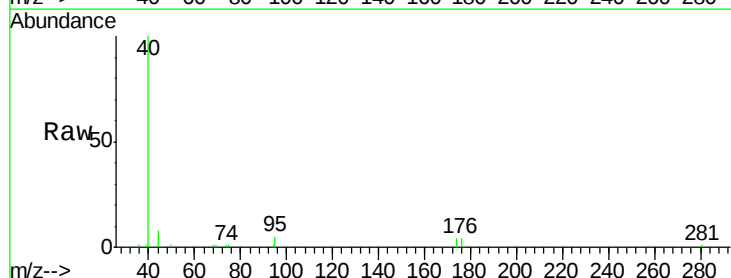
Instrument :
 MSVOA_F
 ClientSampleId :

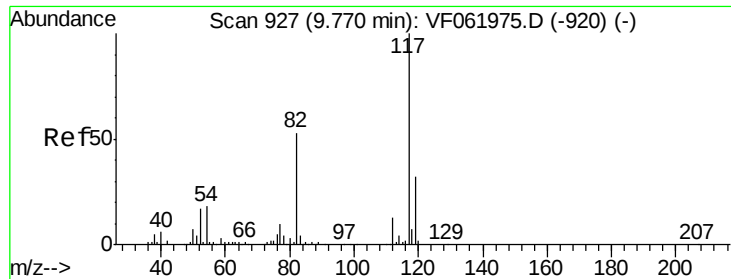
Tot Ion:129 Resp: 83
 Ion Ratio Lower Upper
 129 100
 127 0.0 37.3 111.8#



#62
 4-Bromofluorobenzene
 Concen: 16.950 ug/l
 RT: 11.40 min Scan# 1092
 Delta R.T. -0.01 min
 Lab File: VF061999.D
 Acq: 18 Mar 2019 16:03

Tgt Ion: 95 Resp: 1316
 Ion Ratio Lower Upper
 95 100
 174 72.0 0.0 149.4
 176 71.8 0.0 143.4

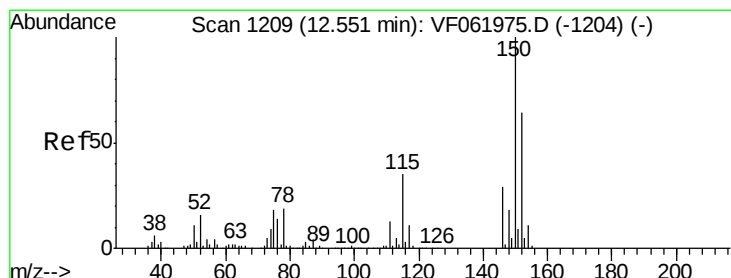
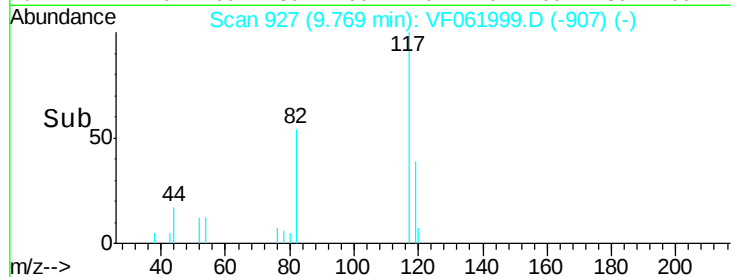
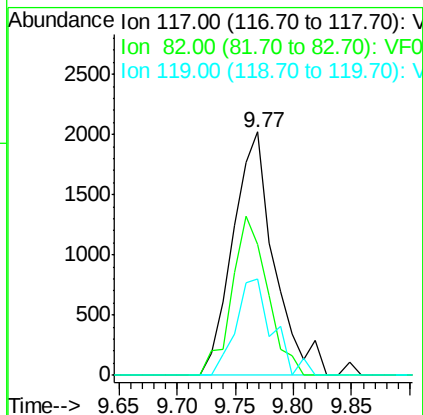
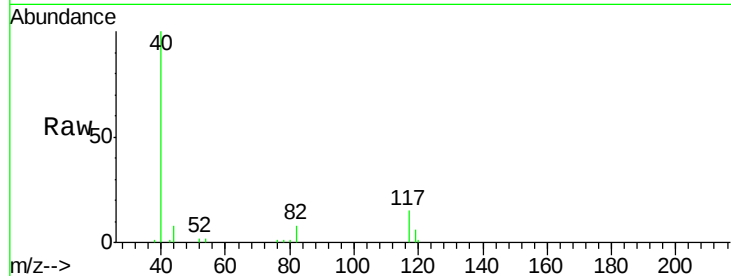




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.00 min
Lab File: VF061999.D
Acq: 18 Mar 2019 16:03

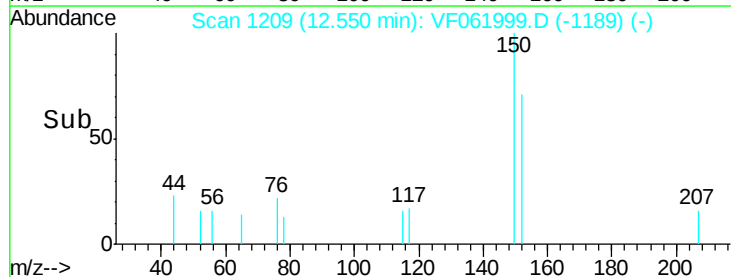
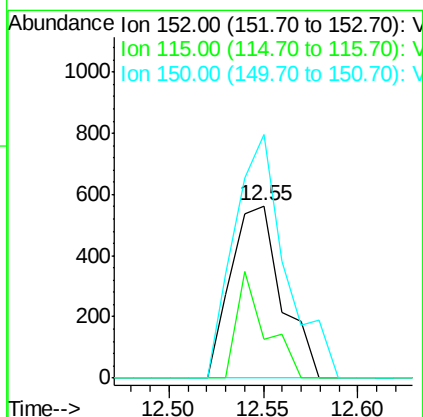
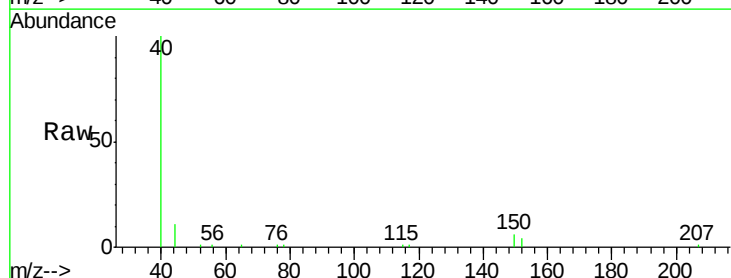
Instrument :
MSVOA_F
ClientSampled :

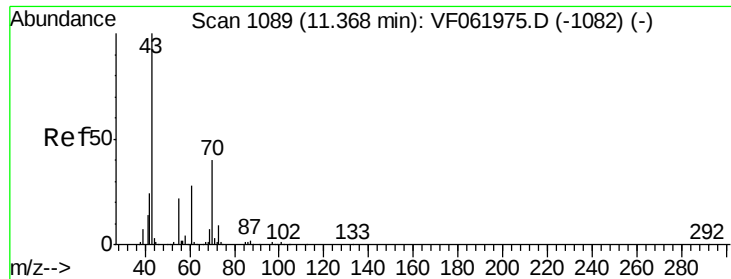
Tot Ion:117 Resp: 4954
Ion Ratio Lower Upper
117 100
82 53.6 42.5 63.7
119 39.4 25.4 38.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.00 min
Lab File: VF061999.D
Acq: 18 Mar 2019 16:03

Tgt Ion:152 Resp: 1050
Ion Ratio Lower Upper
152 100
115 22.8 27.3 81.9#
150 141.6 0.0 316.2





#74
 N-amvl acetate
 Concen: 6.678 ug/l
 RT: 11.37 min Scan# 1089
 Delta R.T. -0.00 min
 Lab File: VF061999.D
 Acq: 18 Mar 2019 16:03

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.9	47.9#
55	87.8	17.9	26.9#
61	0.0	22.2	33.2#

