

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062122.D
 Acq On : 23 Mar 2019 17:33
 Operator : VA/AP
 Sample : K2045-12
 Misc : 6.42g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 25 01:29:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	247939	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	380621	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.78	117	328878	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	171603	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	82000	44.46	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	88.92%	
35) Dibromofluoromethane	4.12	113	115341	44.80	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	89.60%	
50) Toluene-d8	7.55	98	290188	37.76	ug/l	-0.04
Spiked Amount				50.000		
			Recovery	=	75.52%	
62) 4-Bromofluorobenzene	11.41	95	121222	40.86	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	81.72%	

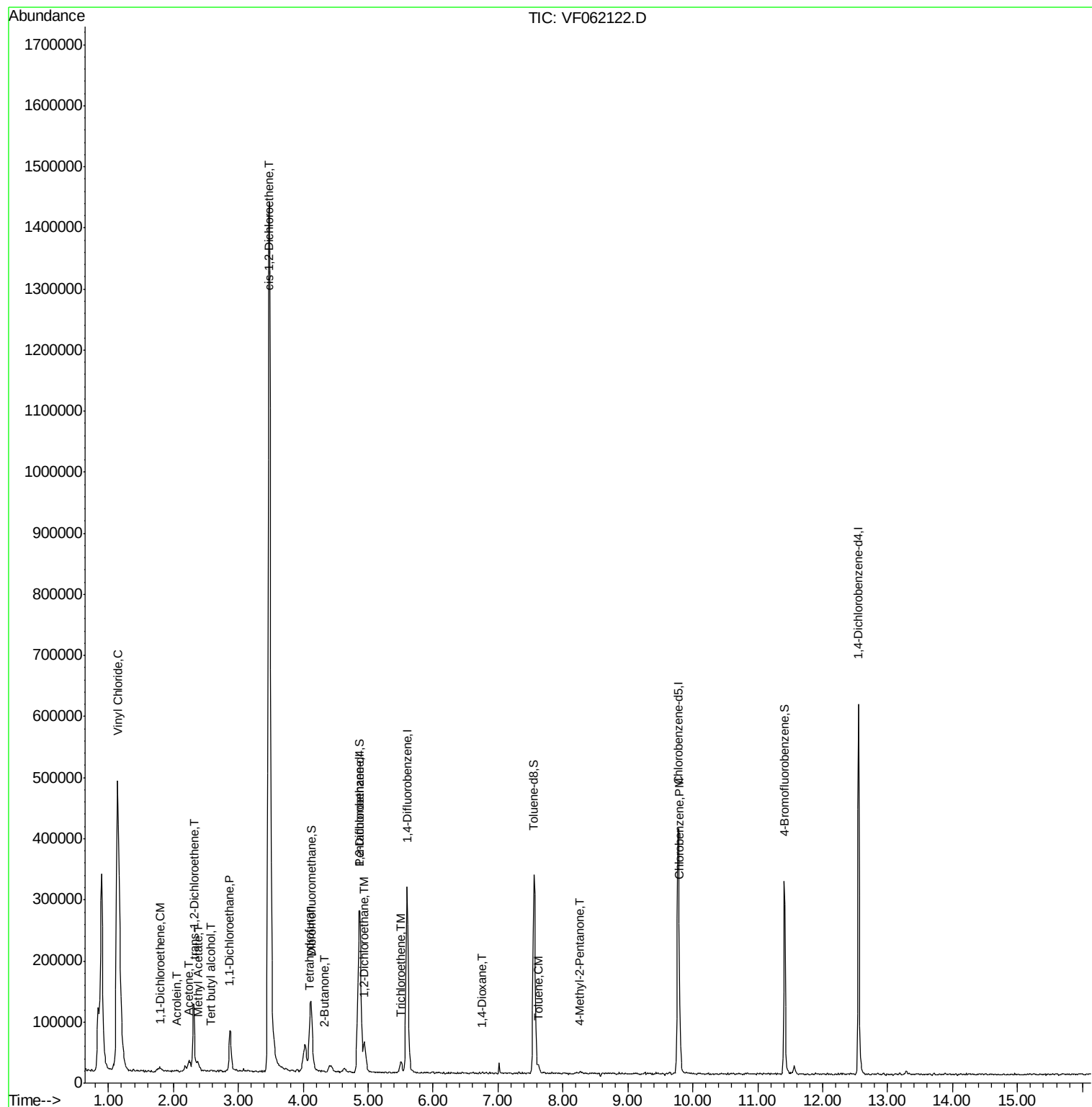
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.14	62	1064262	346.193	ug/l	99
11) Tert butyl alcohol	2.58	59	720	7.096	ug/l #	27
12) 1,1-Dichloroethene	1.80	96	3245	1.358	ug/l #	65
13) Acrolein	2.05	56	461	3.778	ug/l	99
16) Acetone	2.24	43	21088	54.331	ug/l	96
18) Methyl Acetate	2.38	43	4757	5.138	ug/l #	56
20) Methylene Chloride	2.19	84	4120	Below Cal		98
21) trans-1,2-Dichloroethene	2.32	96	55878	24.300	ug/l	98
24) 1,1-Dichloroethane	2.87	63	83747	20.875	ug/l	98
25) 2-Butanone	4.34	43	2373	2.929	ug/l #	89
27) cis-1,2-Dichloroethene	3.48	96	1026216	336.780	ug/l	97
29) Tetrahydrofuran	4.08	42	1528	4.337	ug/l #	72
42) 1,2-Dichloroethane	4.94	62	50582	22.008	ug/l	98
44) Trichloroethene	5.51	130	9971	3.356	ug/l	96
49) 1,4-Dioxane	6.74	88	67	6.989	ug/l #	25
51) 4-Methyl-2-Pentanone	8.27	43	2658	2.070	ug/l #	84
52) Toluene	7.62	92	6368	1.131	ug/l #	61
65) Chlorobenzene	9.80	112	18736	3.045	ug/l	92

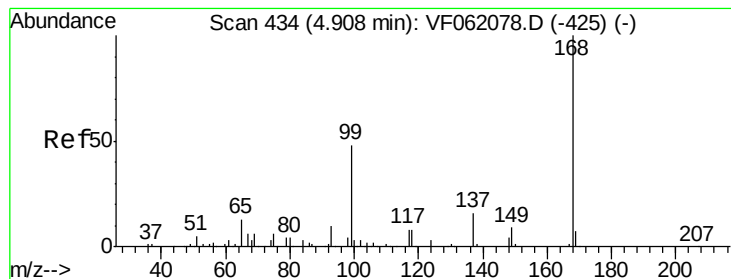
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF062122.D

Acq: 23 Mar 2019 17:33

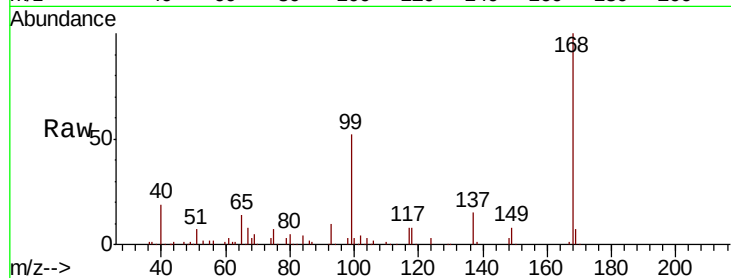
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 247939

Ion Ratio Lower Upper

168 100

99 51.7 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

60000

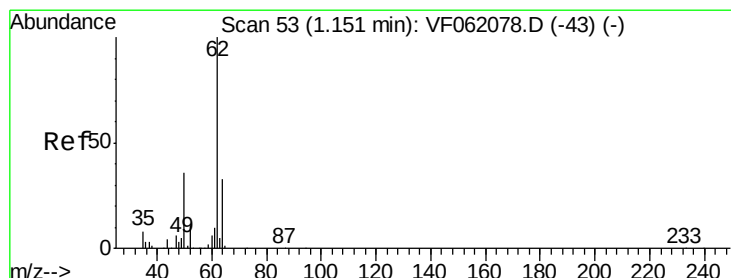
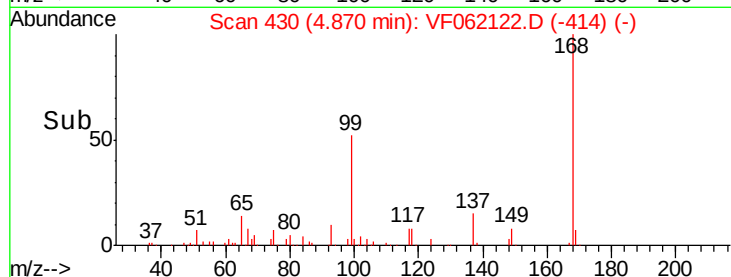
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#4

Vinyl Chloride

Concen: 346.193 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF062122.D

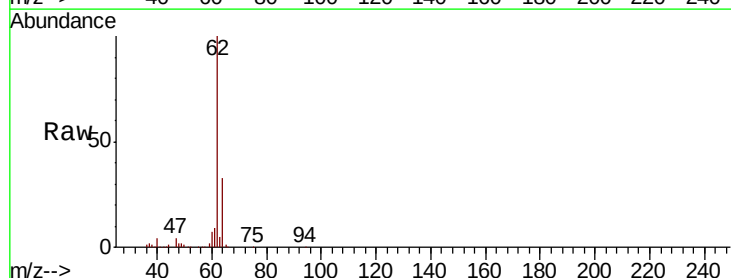
Acq: 23 Mar 2019 17:33

Tgt Ion: 62 Resp: 1064262

Ion Ratio Lower Upper

62 100

64 33.4 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.14

300000

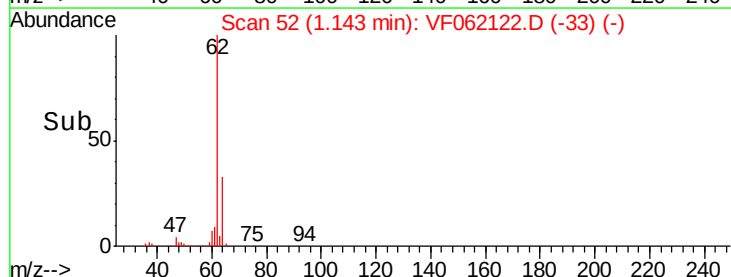
200000

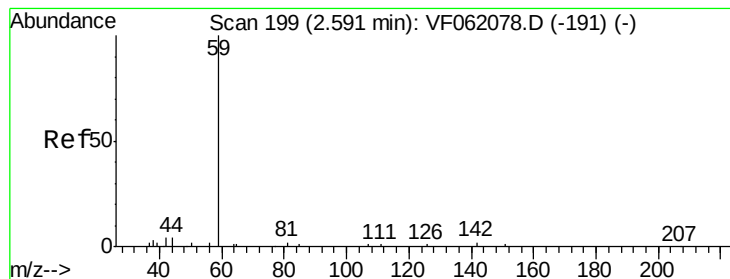
100000

0

Time-->

1.00 1.20 1.40



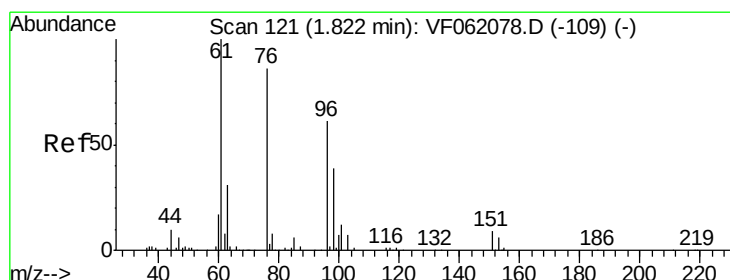
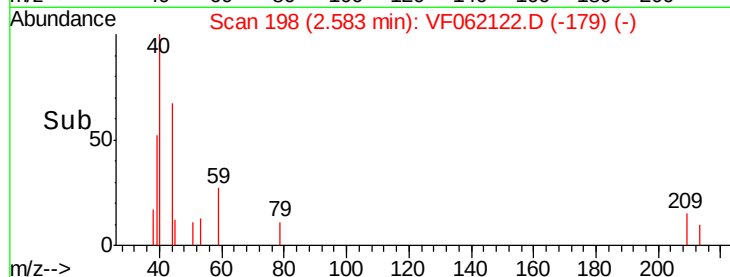
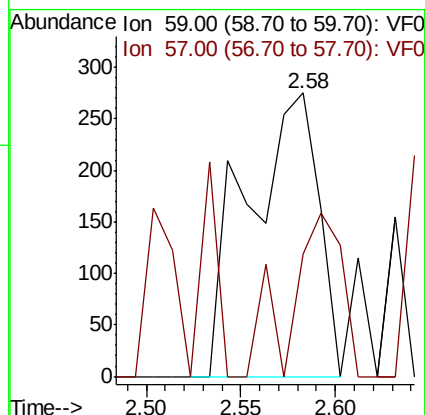
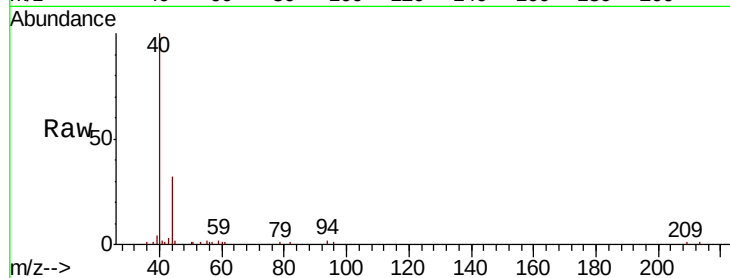


#11

Tert butyl alcohol
 Concen: 7.096 ug/l
 RT: 2.58 min Scan# 198
 Delta R.T. -0.01 min
 Lab File: VF062122.D
 Acq: 23 Mar 2019 17:33

Instrument :
 MSVOA_F
 ClientSampleId :

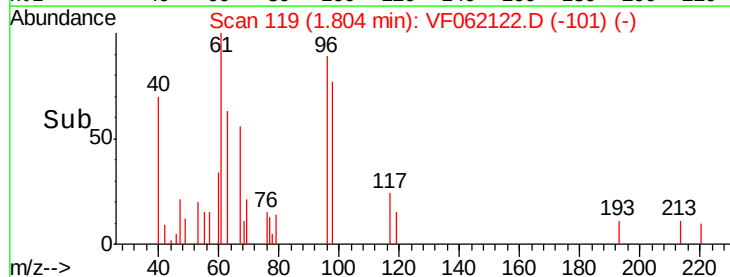
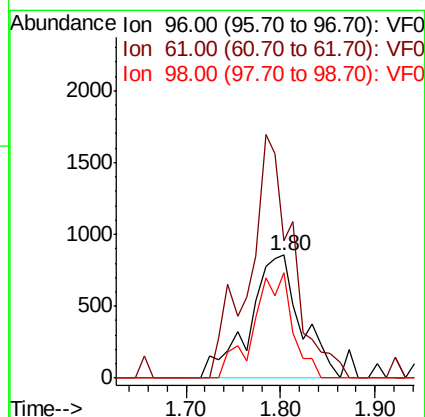
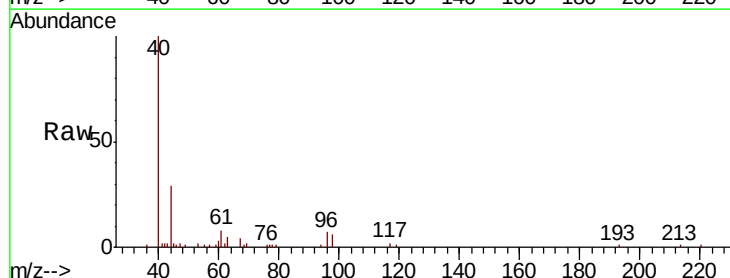
Tot Ion: 59 Resp: 720
 Ion Ratio Lower Upper
 59 100
 57 43.3 11.0 16.4#

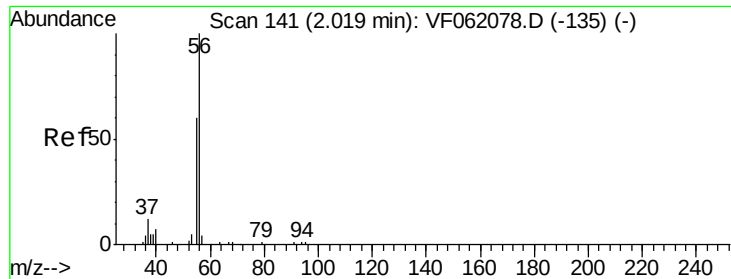


#12

1,1-Dichloroethene
 Concen: 1.358 ug/l
 RT: 1.80 min Scan# 119
 Delta R.T. -0.02 min
 Lab File: VF062122.D
 Acq: 23 Mar 2019 17:33

Tgt Ion: 96 Resp: 3245
 Ion Ratio Lower Upper
 96 100
 61 112.3 131.0 196.6#
 98 86.1 51.5 77.3#





#13

Acrolein

Concen: 3.778 ug/l

RT: 2.05 min Scan# 144

Delta R.T. 0.03 min

Lab File: VF062122.D

Acq: 23 Mar 2019 17:33

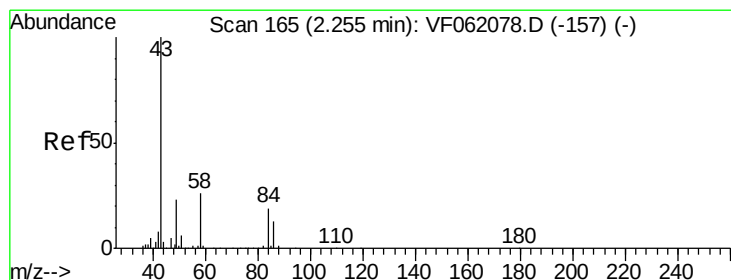
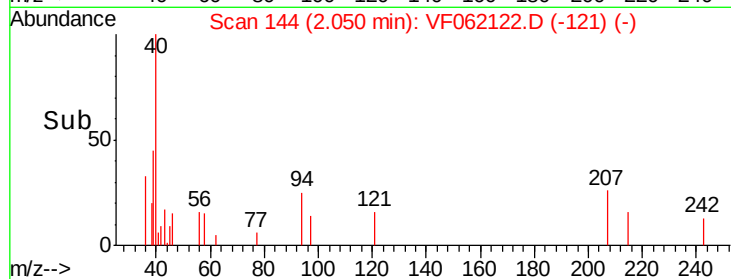
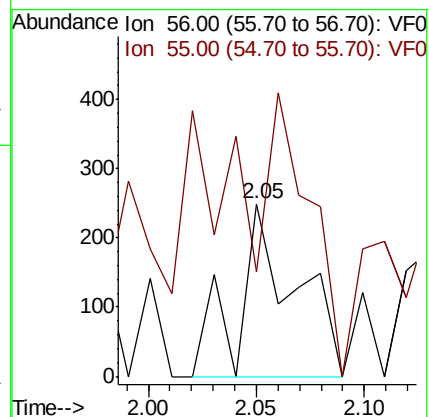
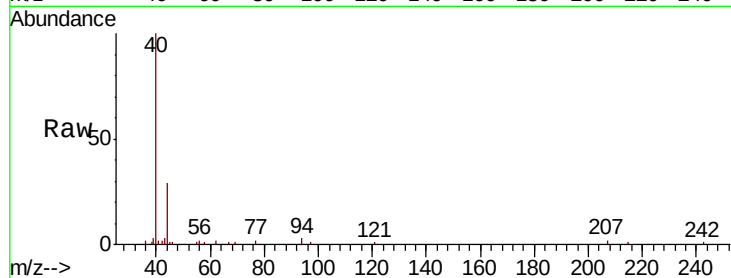
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 461

Ion Ratio Lower Upper

56 100

55 60.2 49.0 73.4



#16

Acetone

Concen: 54.331 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF062122.D

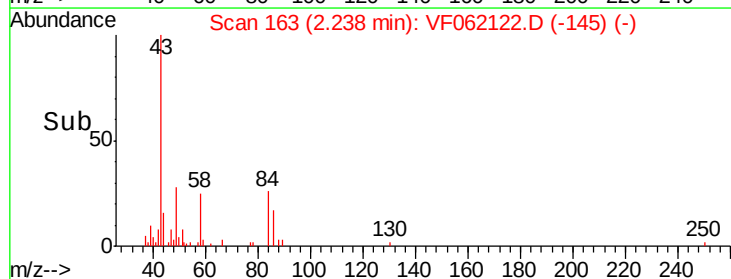
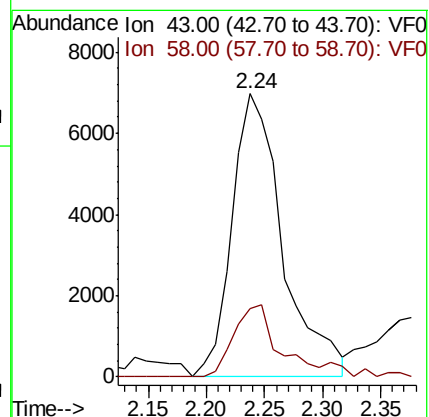
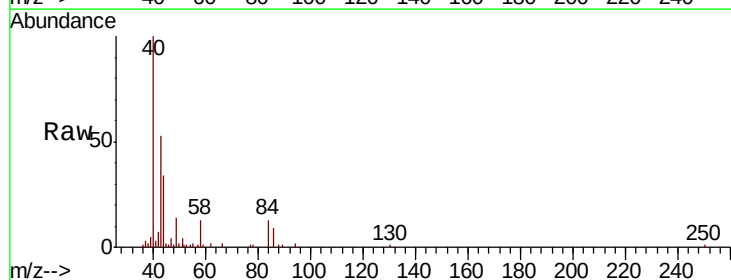
Acq: 23 Mar 2019 17:33

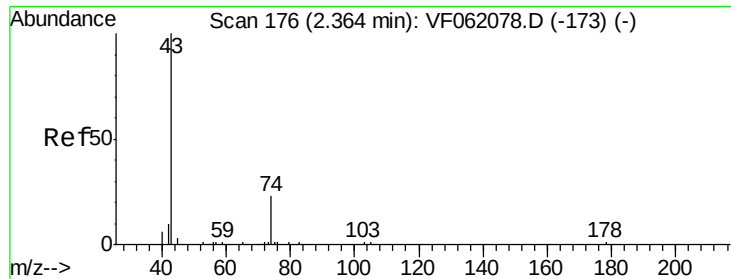
Tgt Ion: 43 Resp: 21088

Ion Ratio Lower Upper

43 100

58 24.1 20.8 31.2

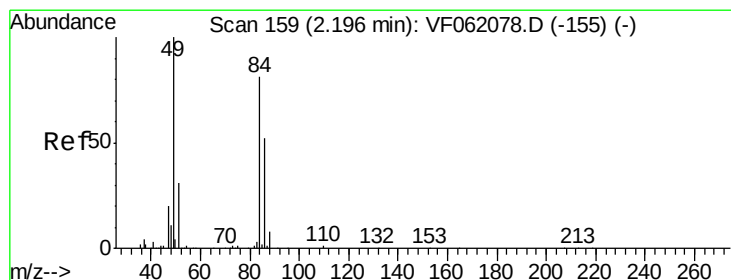
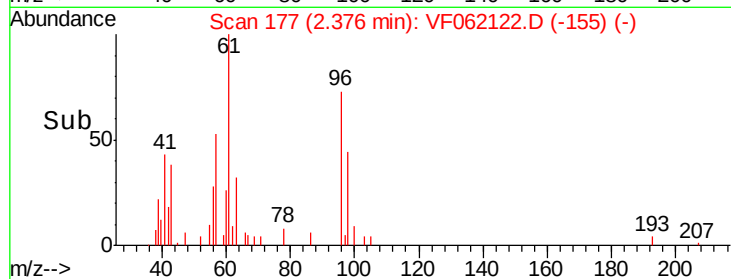
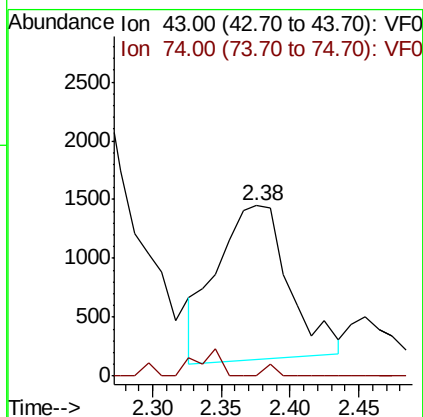
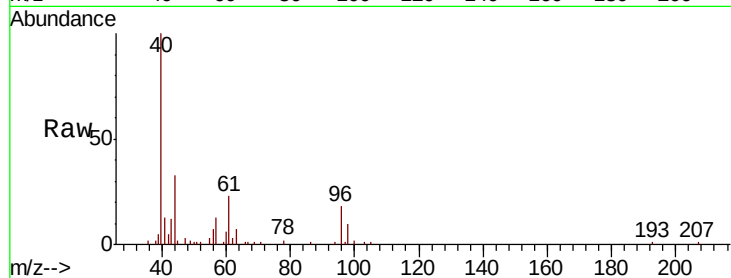




#18
Methyl Acetate
Concen: 5.138 ug/l
RT: 2.38 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF062122.D
Acq: 23 Mar 2019 17:33

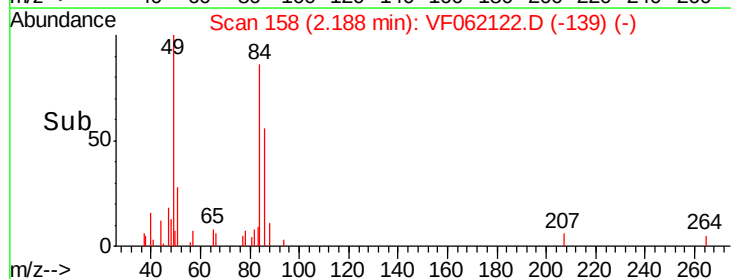
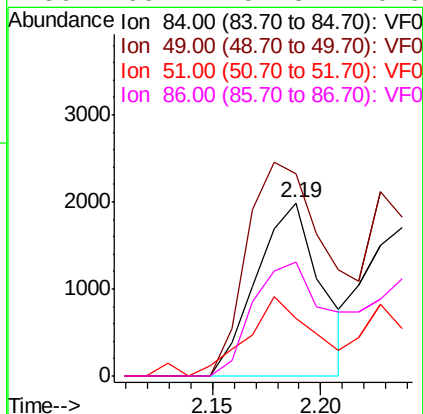
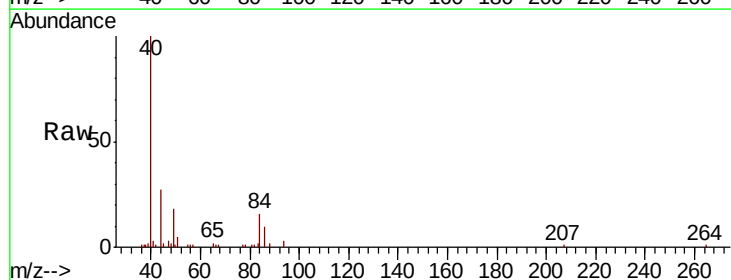
Instrument :
MSVOA_F
ClientSampled :

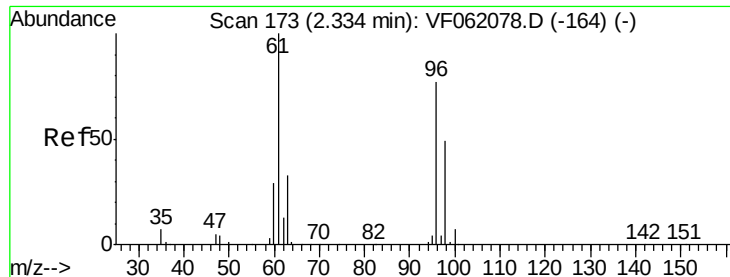
Tot Ion: 43 Resp: 4757
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.19 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF062122.D
Acq: 23 Mar 2019 17:33

Tgt Ion: 84 Resp: 4120
Ion Ratio Lower Upper
84 100
49 124.9 100.4 150.6
51 33.1 31.0 46.6
86 65.7 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 24.300 ug/l

RT: 2.32 min Scan# 171

Delta R.T. -0.02 min

Lab File: VF062122.D

Acq: 23 Mar 2019 17:33

Instrument :

MSVOA_F

ClientSampleId :

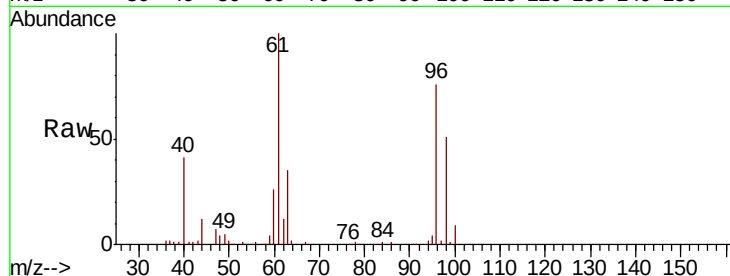
Tot Ion: 96 Resp: 55878

Ion Ratio Lower Upper

96 100

61 131.4 104.5 156.7

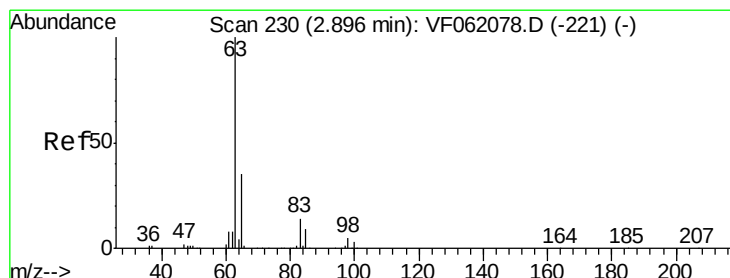
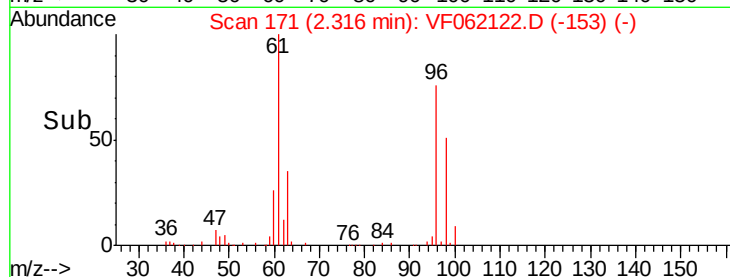
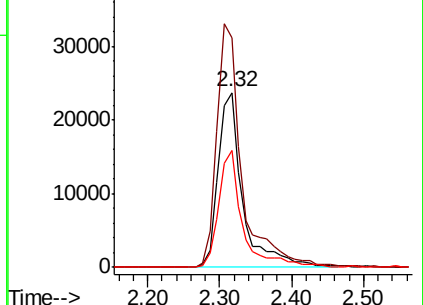
98 66.9 51.2 76.8



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



#24

1,1-Dichloroethane

Concen: 20.875 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.03 min

Lab File: VF062122.D

Acq: 23 Mar 2019 17:33

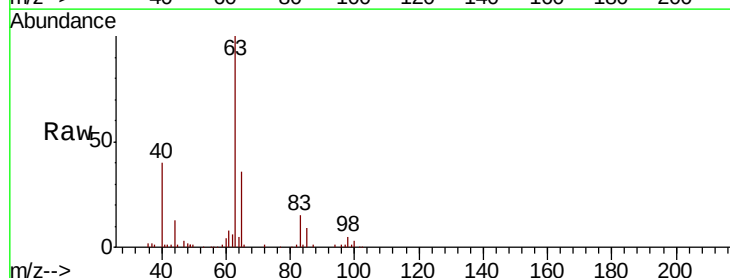
Tgt Ion: 63 Resp: 83747

Ion Ratio Lower Upper

63 100

98 4.7 2.7 8.1

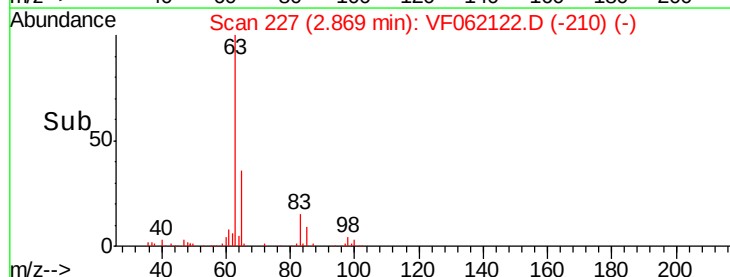
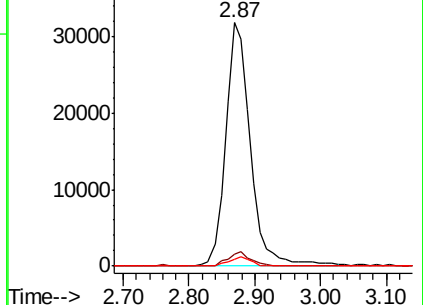
100 2.9 1.7 5.1

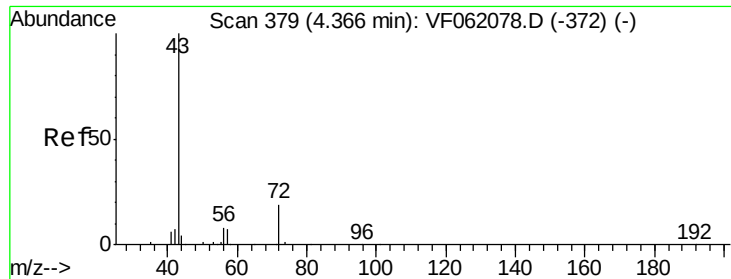


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 2.929 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF062122.D

Acq: 23 Mar 2019 17:33

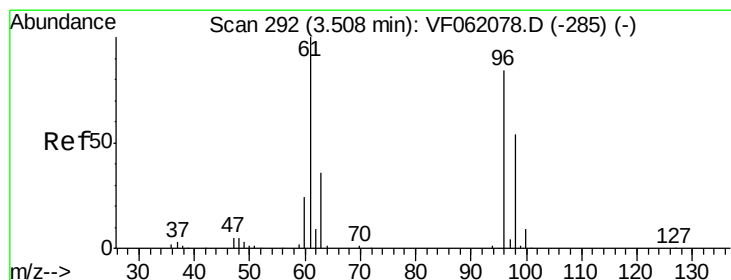
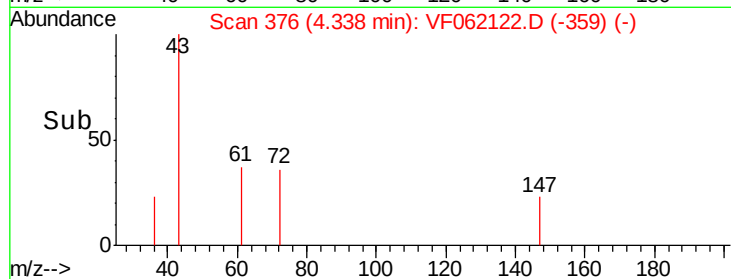
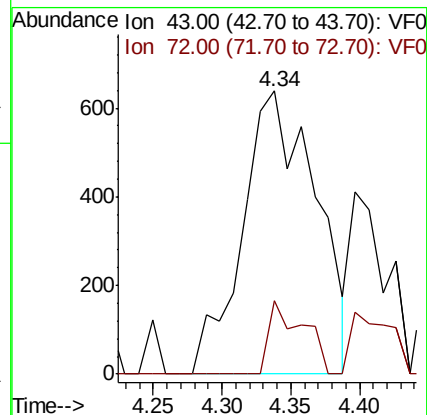
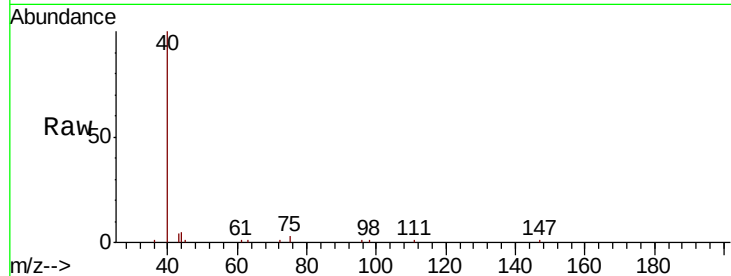
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 2373

Ion Ratio Lower Upper

43 100

72 26.2 16.7 25.1#



#27

cis-1,2-Dichloroethene

Concen: 336.780 ug/l

RT: 3.48 min Scan# 289

Delta R.T. -0.03 min

Lab File: VF062122.D

Acq: 23 Mar 2019 17:33

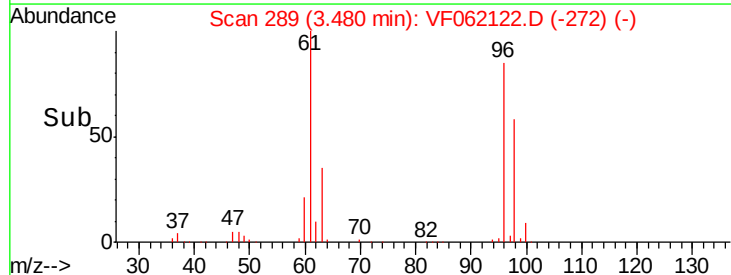
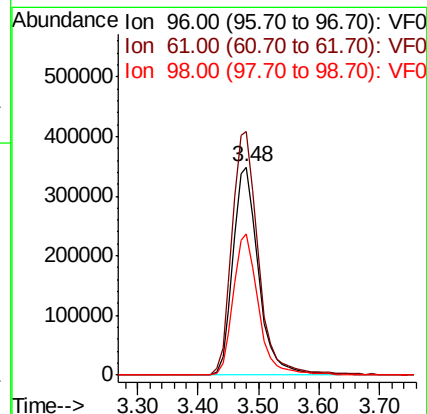
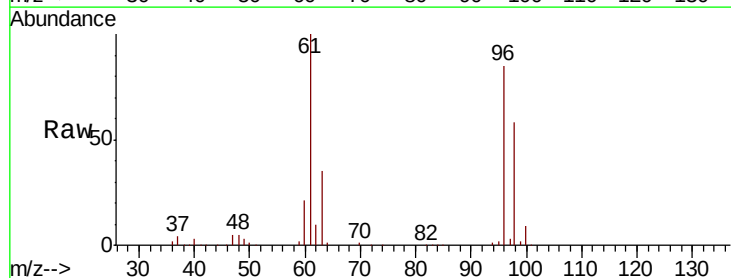
Tgt Ion: 96 Resp: 1026216

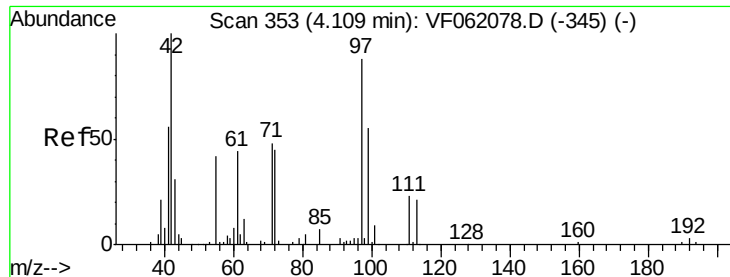
Ion Ratio Lower Upper

96 100

61 117.2 0.0 239.0

98 67.8 0.0 128.2

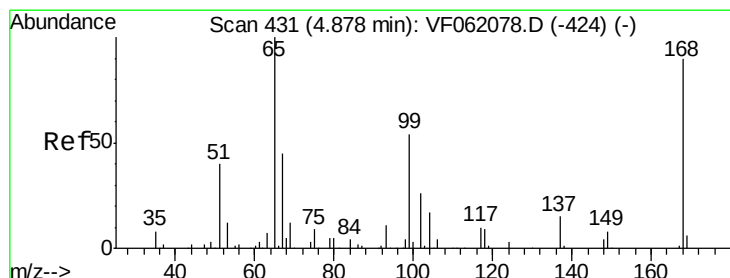
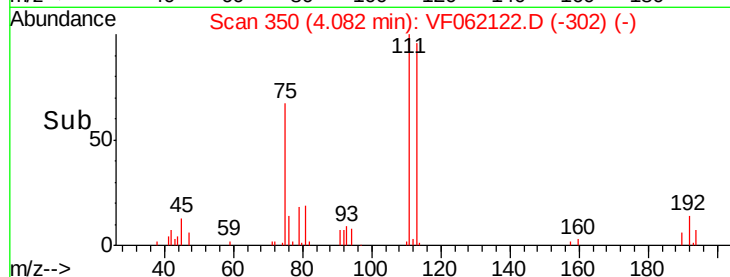
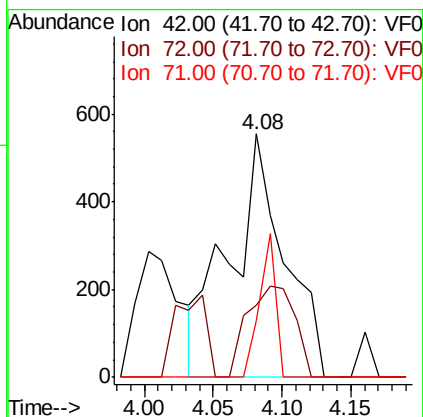
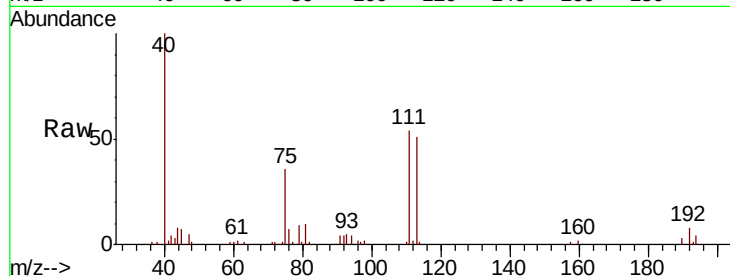




#29
Tetrahydrofuran
Concen: 4.337 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.03 min
Lab File: VF062122.D
Acq: 23 Mar 2019 17:33

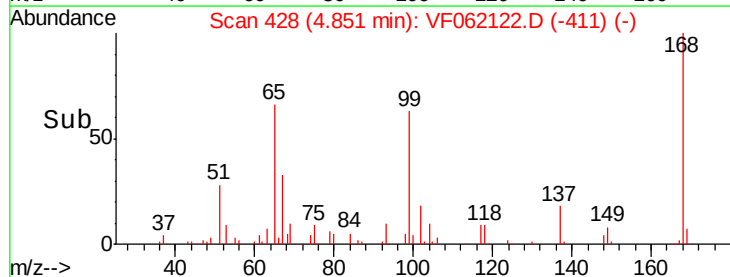
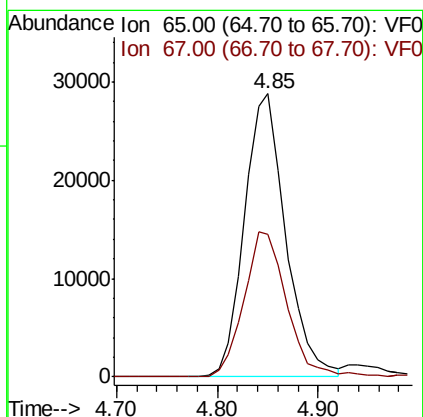
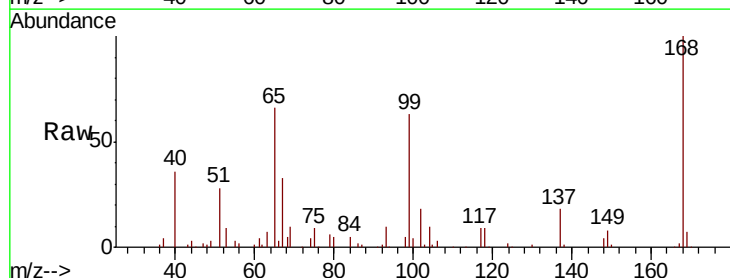
Instrument :
MSVOA_F
ClientSampleId :

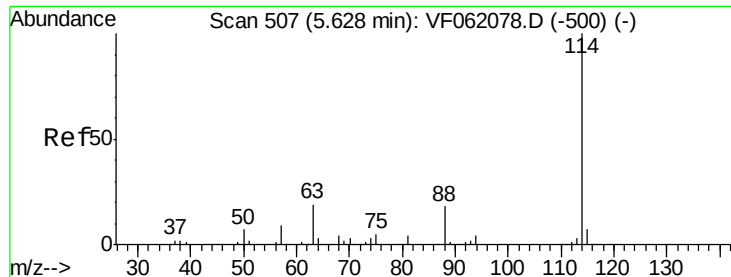
Tot Ion: 42 Resp: 1528
Ion Ratio Lower Upper
42 100
72 32.8 33.3 49.9#
71 17.7 35.0 52.4#



#33
1,2-Dichloroethane-d4
Concen: 44.464 ug/l
RT: 4.85 min Scan# 428
Delta R.T. -0.03 min
Lab File: VF062122.D
Acq: 23 Mar 2019 17:33

Tgt Ion: 65 Resp: 82000
Ion Ratio Lower Upper
65 100
67 50.4 0.0 106.2

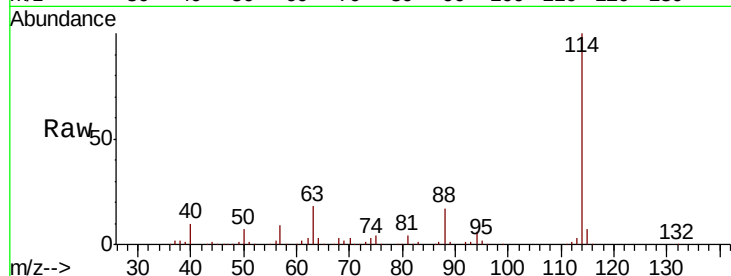




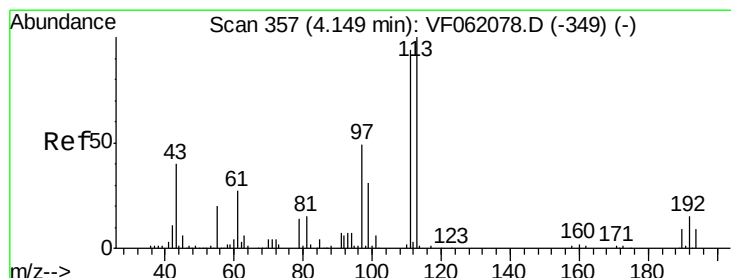
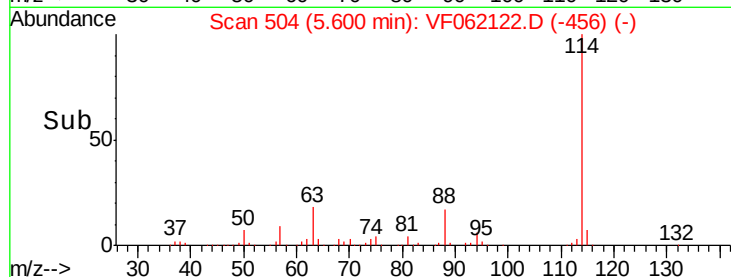
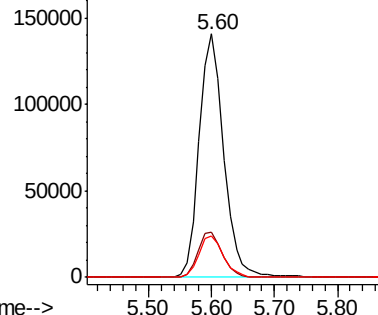
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.03 min
 Lab File: VF062122.D
 Acq: 23 Mar 2019 17:33

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:114 Resp: 380621
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 37.8
 88 17.2 0.0 36.4

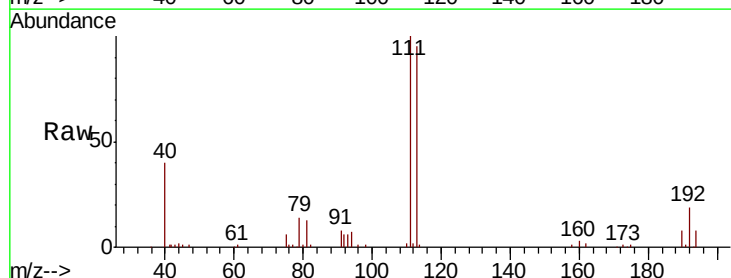


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

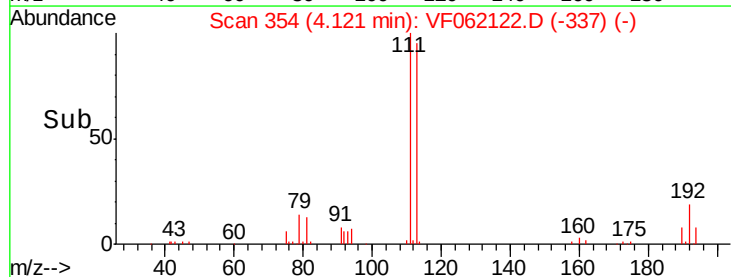
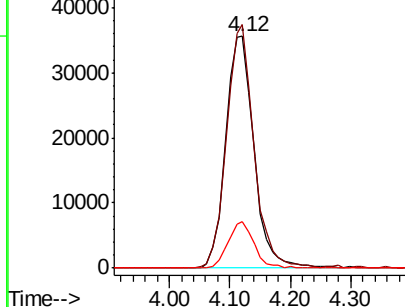


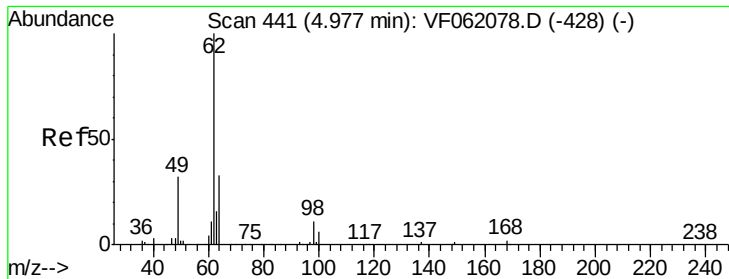
#35
 Dibromofluoromethane
 Concen: 44.797 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. -0.03 min
 Lab File: VF062122.D
 Acq: 23 Mar 2019 17:33

Tgt Ion:113 Resp: 115341
 Ion Ratio Lower Upper
 113 100
 111 105.2 75.4 113.0
 192 19.8 12.3 18.5#



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

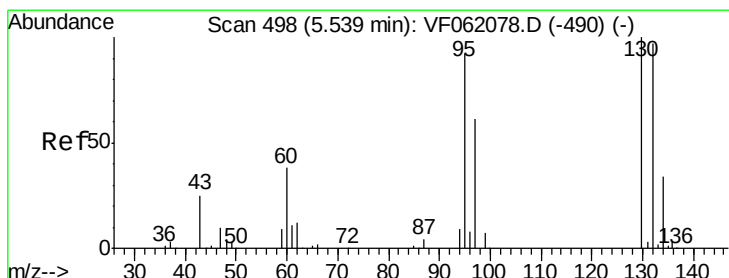
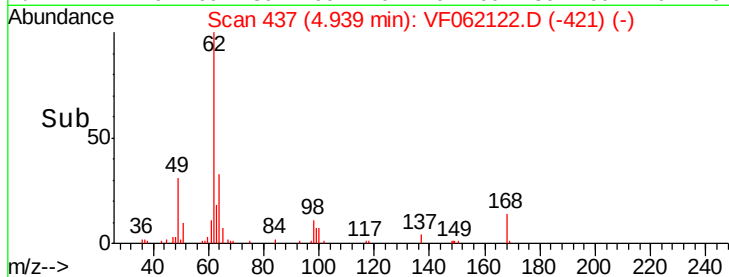
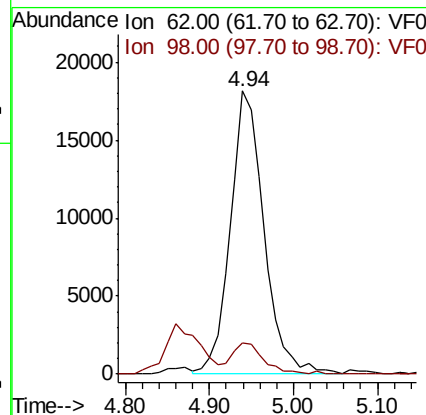
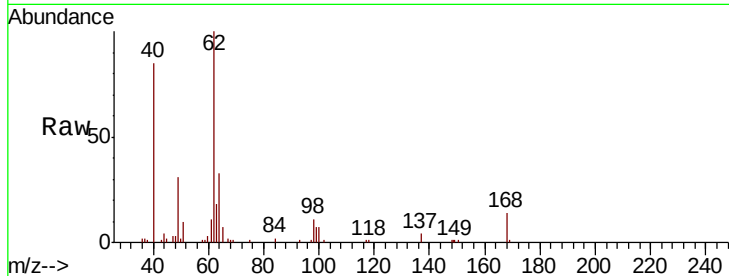




#42
1,2-Dichloroethane
Concen: 22.008 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.04 min
Lab File: VF062122.D
Acq: 23 Mar 2019 17:33

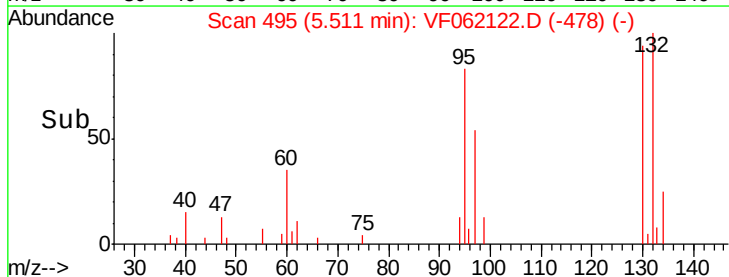
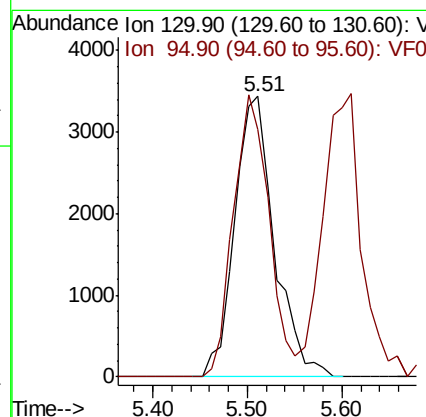
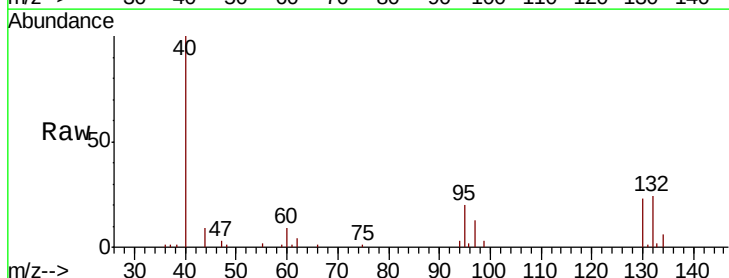
Instrument :
MSVOA_F
ClientSampleId :

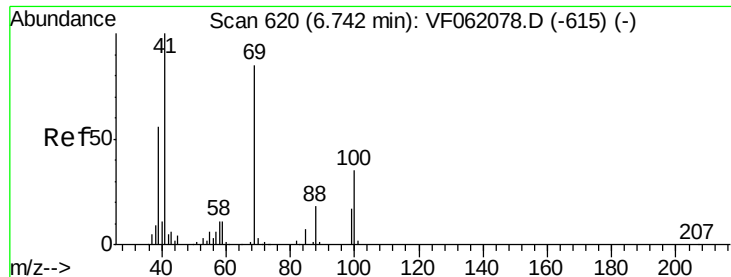
Tot Ion: 62 Resp: 50582
Ion Ratio Lower Upper
62 100
98 11.0 0.0 23.2



#44
Trichloroethene
Concen: 3.356 ug/l
RT: 5.51 min Scan# 495
Delta R.T. -0.03 min
Lab File: VF062122.D
Acq: 23 Mar 2019 17:33

Tgt Ion:130 Resp: 9971
Ion Ratio Lower Upper
130 100
95 88.2 0.0 183.4





#49

1,4-Dioxane

Concen: 6.989 ug/l

RT: 6.74 min Scan# 620

Delta R.T. 0.00 min

Lab File: VF062122.D

Acq: 23 Mar 2019 17:33

Instrument :
MSVOA_F
ClientSampled :

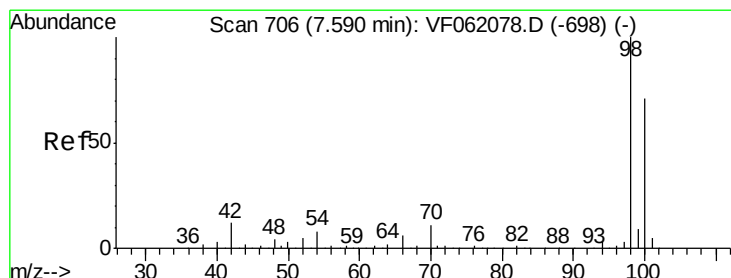
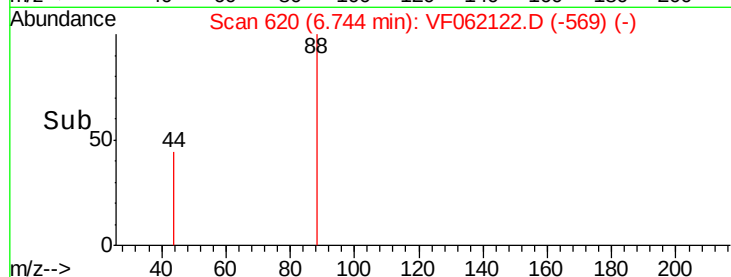
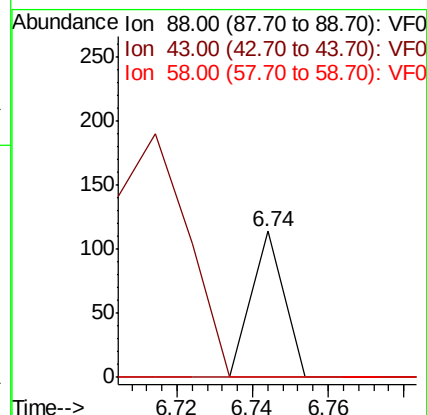
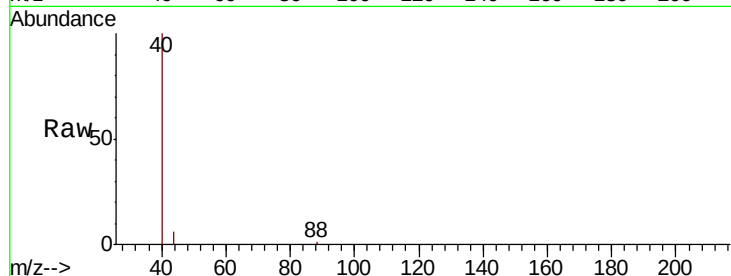
Tot Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 0.0 35.0 52.4#

58 0.0 49.9 74.9#



#50

Toluene-d8

Concen: 37.757 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF062122.D

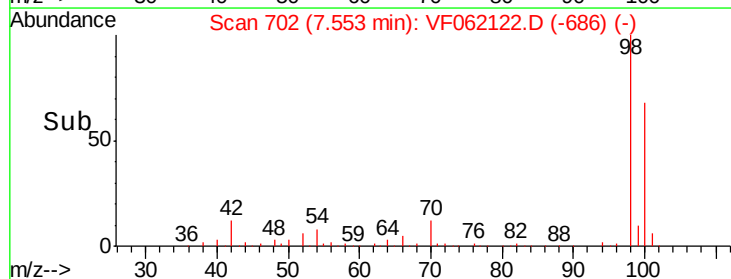
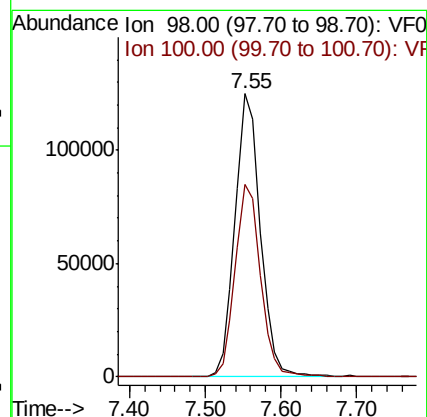
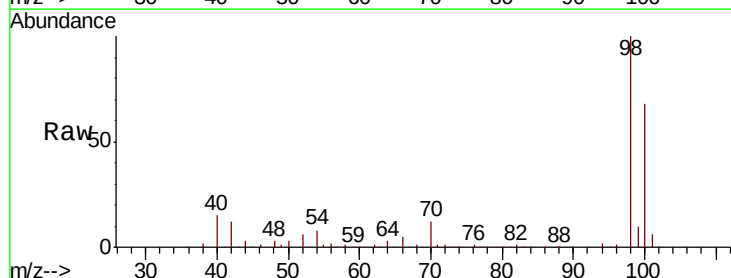
Acq: 23 Mar 2019 17:33

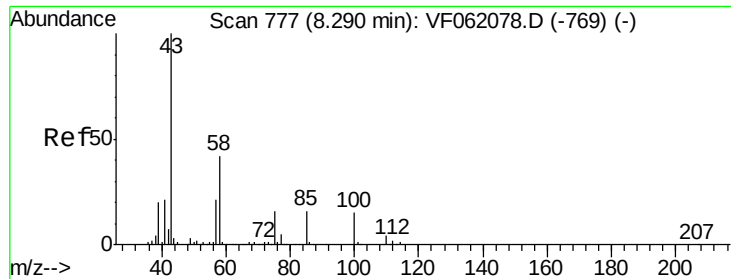
Tgt Ion: 98 Resp: 290188

Ion Ratio Lower Upper

98 100

100 68.0 57.0 85.6





#51

4-Methyl-2-Pentanone

Concen: 2.070 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF062122.D

Acq: 23 Mar 2019 17:33

Instrument :

MSVOA_F

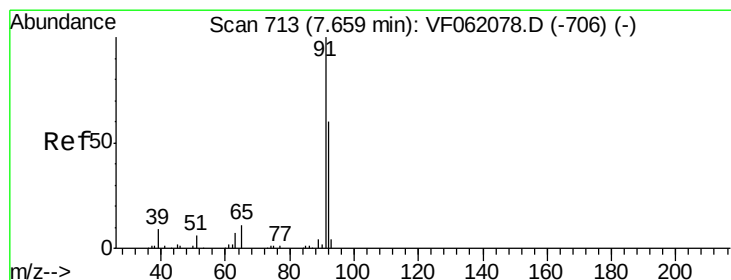
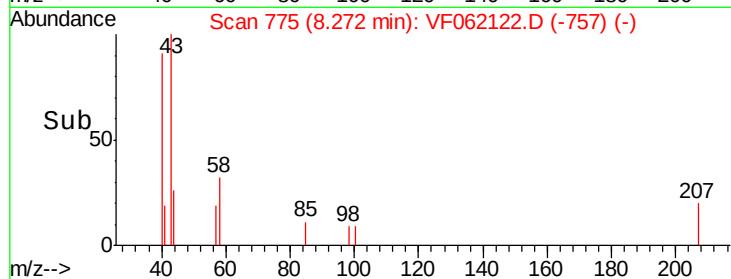
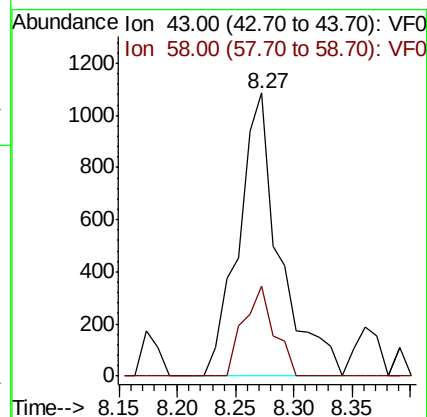
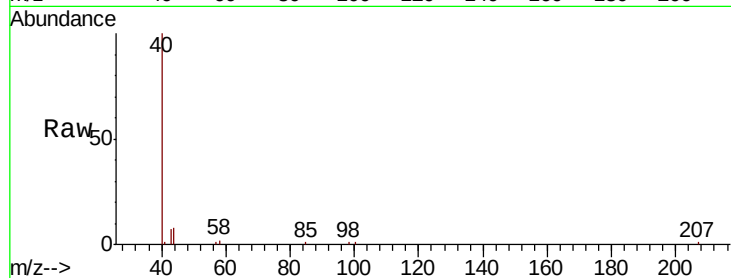
ClientSampled :

Tot Ion: 43 Resp: 2658

Ion Ratio Lower Upper

43 100

58 32.0 33.8 50.8#



#52

Toluene

Concen: 1.131 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF062122.D

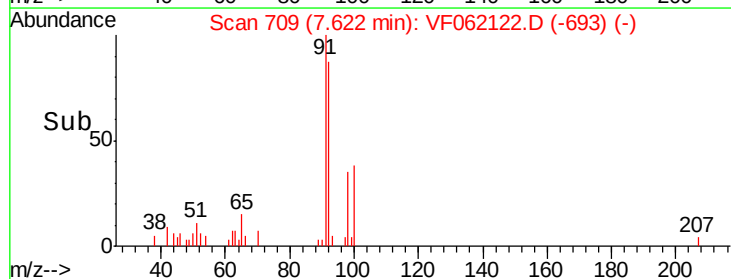
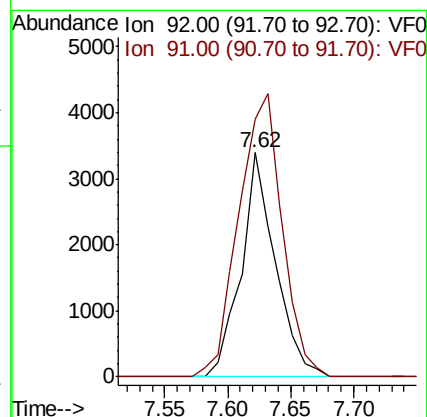
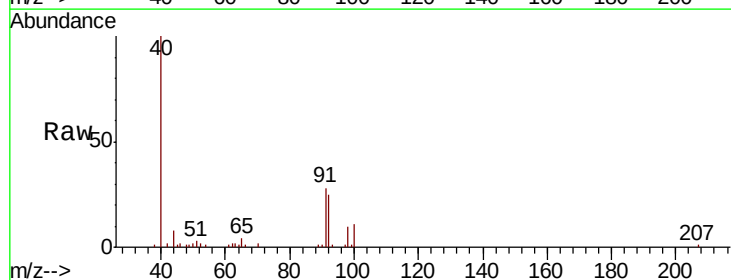
Acq: 23 Mar 2019 17:33

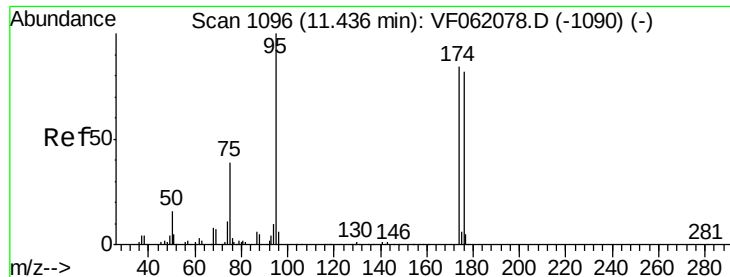
Tgt Ion: 92 Resp: 6368

Ion Ratio Lower Upper

92 100

91 115.2 134.1 201.1#

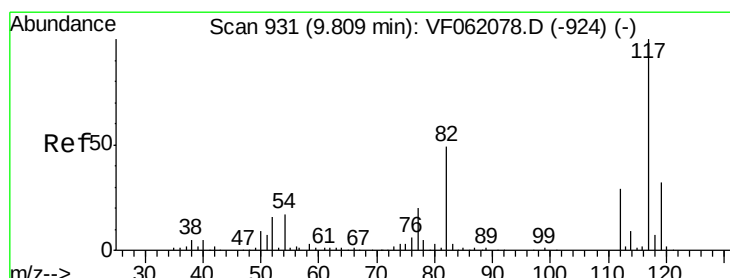
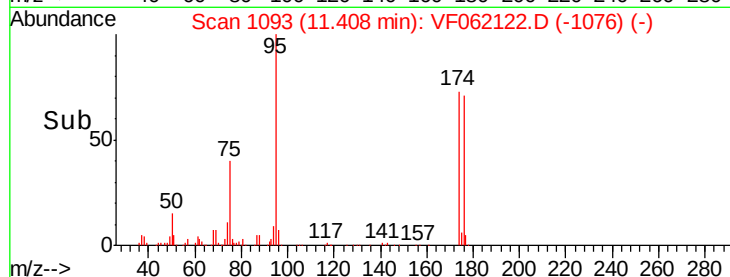
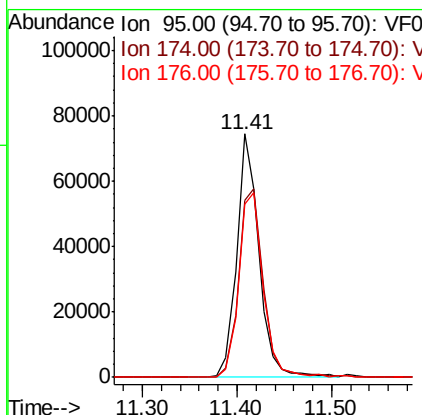
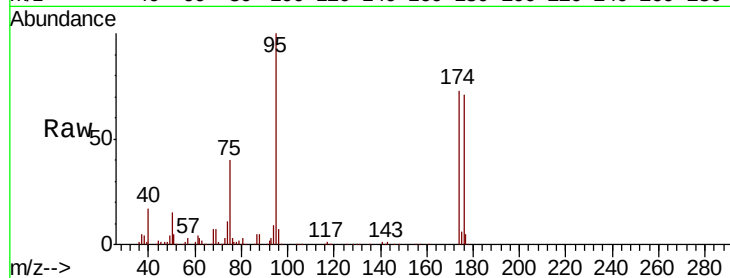




#62
4-Bromofluorobenzene
Concen: 40.855 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF062122.D
Acq: 23 Mar 2019 17:33

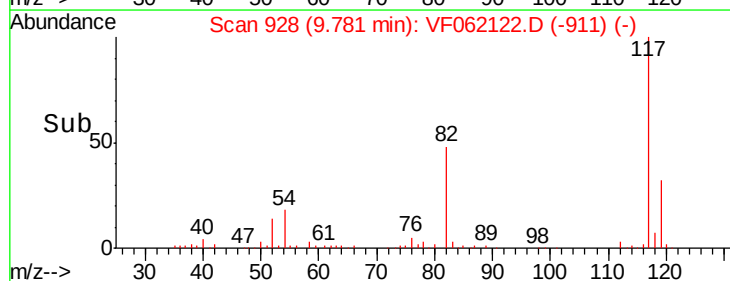
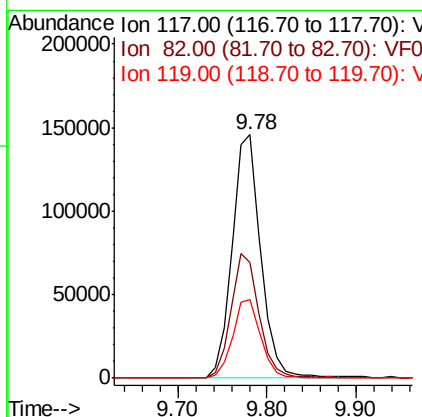
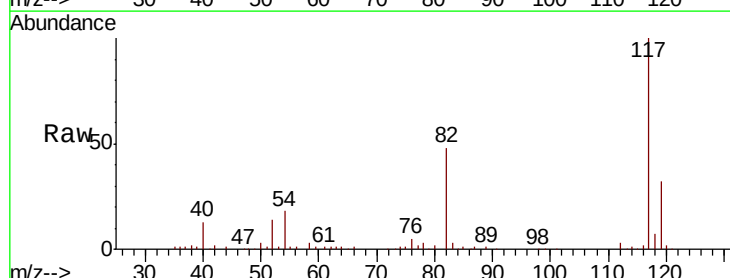
Instrument :
MSVOA_F
ClientSampleId :

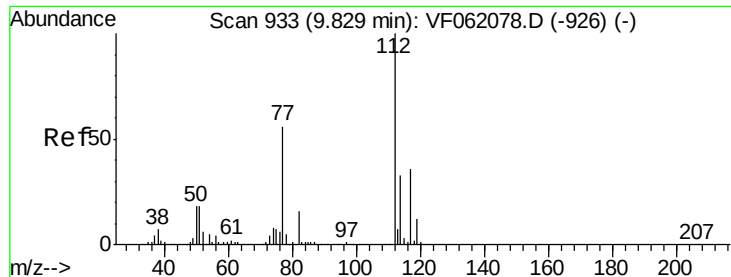
Tot Ion: 95 Resp: 121222
Ion Ratio Lower Upper
95 100
174 72.5 0.0 168.2
176 71.3 0.0 164.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF062122.D
Acq: 23 Mar 2019 17:33

Tgt Ion: 117 Resp: 328878
Ion Ratio Lower Upper
117 100
82 47.6 39.2 58.8
119 32.5 25.4 38.2

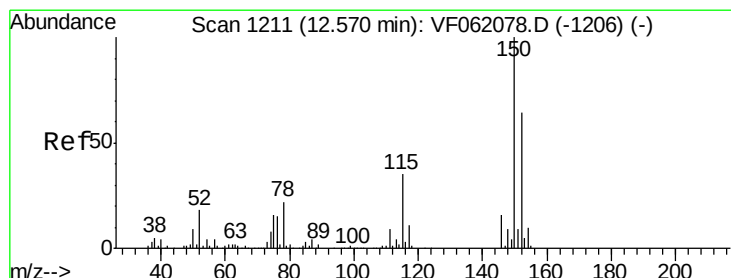
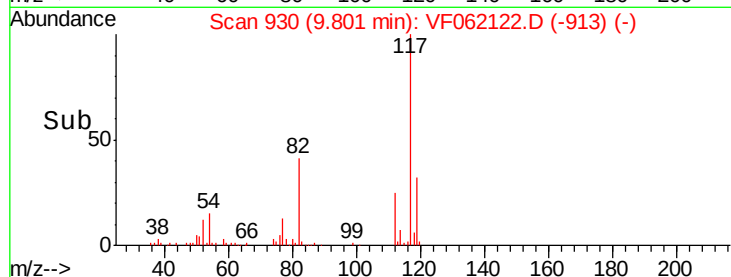
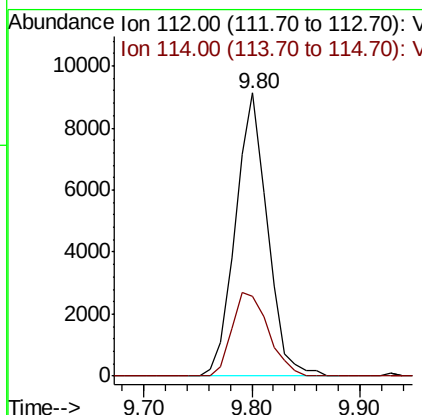
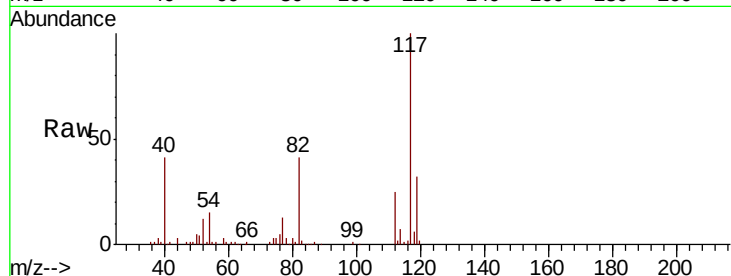




#65
Chlorobenzene
Concen: 3.045 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.03 min
Lab File: VF062122.D
Acq: 23 Mar 2019 17:33

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:112 Resp: 18736
Ion Ratio Lower Upper
112 100
114 28.1 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF062122.D
Acq: 23 Mar 2019 17:33

Tgt Ion:152 Resp: 171603
Ion Ratio Lower Upper
152 100
115 49.1 27.7 83.1
150 146.1 0.0 313.2

