

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082718\
 Data File : VF060122.D
 Acq On : 27 Aug 2018 13:55
 Operator : VA/AP
 Sample : J4646-01
 Misc : 5.71g/5mL/MSVOA F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 27 14:17:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	177623	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.77	114	311908	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	298936	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	178565	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	136870	56.30	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	112.60%	
35) Dibromofluoromethane	4.29	113	120923	49.37	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	98.74%	
50) Toluene-d8	7.71	98	286405	41.17	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	82.34%	
62) 4-Bromofluorobenzene	11.51	95	158518	43.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.16%	

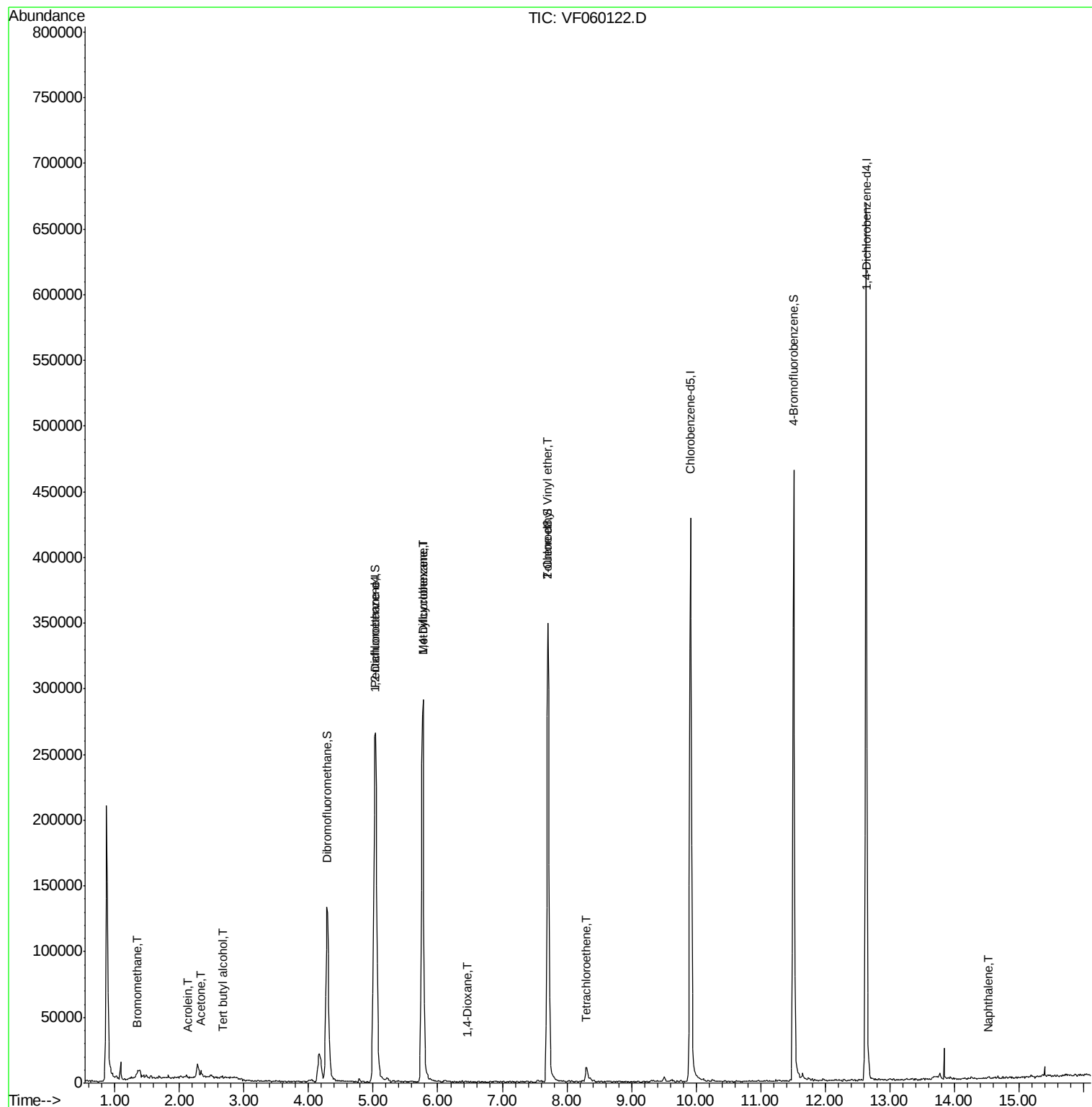
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	1182	Below Cal	#	75
5) Bromomethane	1.34	94	1338	1.213	ug/l #	46
11) Tert butyl alcohol	2.66	59	450	3.480	ug/l #	80
13) Acrolein	2.13	56	101	27.467	ug/l	94
16) Acetone	2.33	43	4710	7.372	ug/l #	86
18) Methyl Acetate	2.46	43	173	Below Cal	#	70
20) Methylene Chloride	2.27	84	4787	Below Cal	#	87
39) Methylcyclohexane	5.77	83	5012	1.824	ug/l #	34
49) 1,4-Dioxane	6.46	88	63	4.495	ug/l #	1
52) Toluene	7.78	92	88	Below Cal	#	39
58) 2-Chloroethyl Vinyl ether	7.71	63	512	3.084	ug/l	100
64) Tetrachloroethene	8.30	164	3491	1.734	ug/l	92
68) m/p-Xylenes	10.27	106	337	Below Cal		78
95) Naphthalene	14.53	128	895	2.415	ug/l #	69

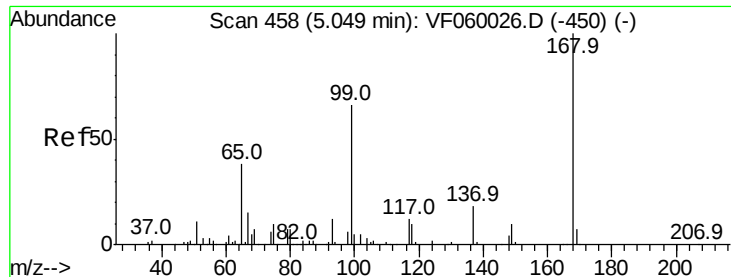
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 22 04:43:43 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF060122.D

Acq: 27 Aug 2018 13:55

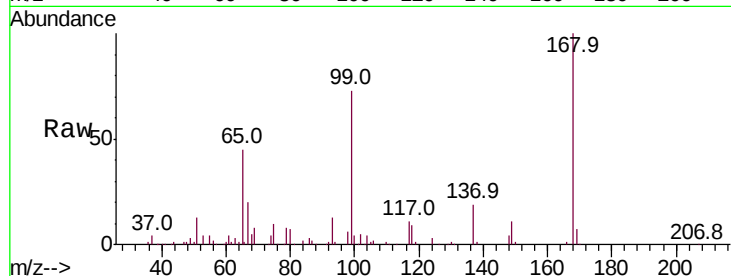
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 177623

Ion Ratio Lower Upper

168 100

99 73.2 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

60000

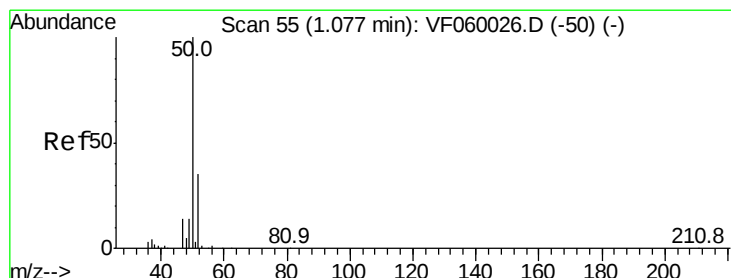
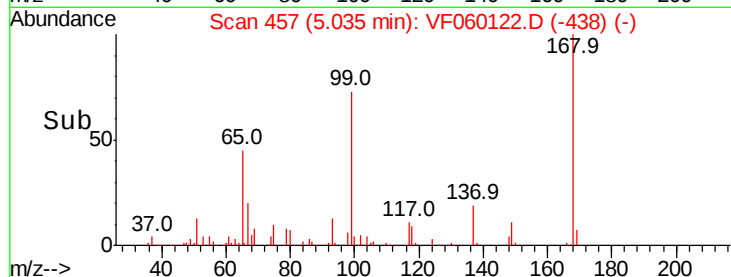
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: Below Cal

RT: 1.09 min Scan# 57

Delta R.T. 0.02 min

Lab File: VF060122.D

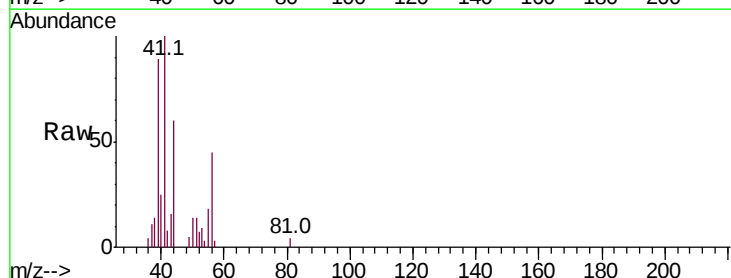
Acq: 27 Aug 2018 13:55

Tgt Ion: 50 Resp: 1182

Ion Ratio Lower Upper

50 100

52 48.9 27.6 41.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.09

600

500

400

300

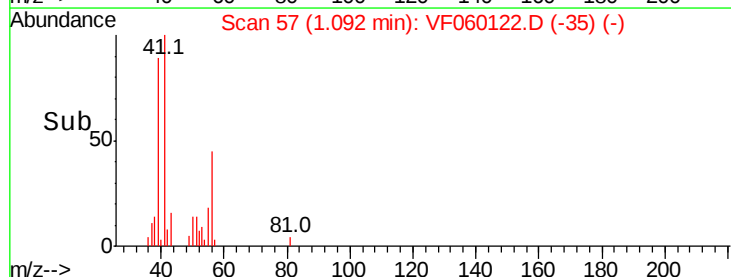
200

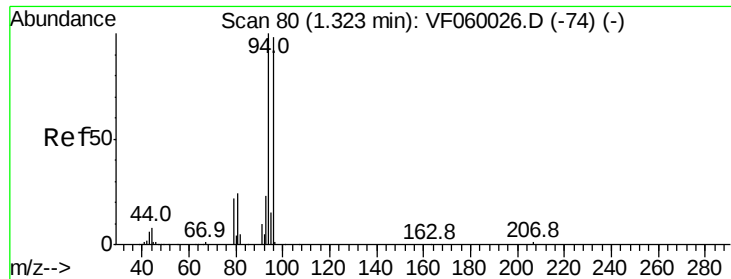
100

0

Time-->

1.05 1.10 1.15





#5

Bromomethane

Concen: 1.213 ug/l

RT: 1.34 min Scan# 82

Delta R.T. 0.02 min

Lab File: VF060122.D

Acq: 27 Aug 2018 13:55

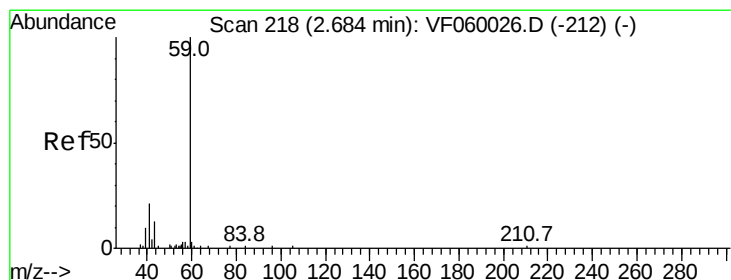
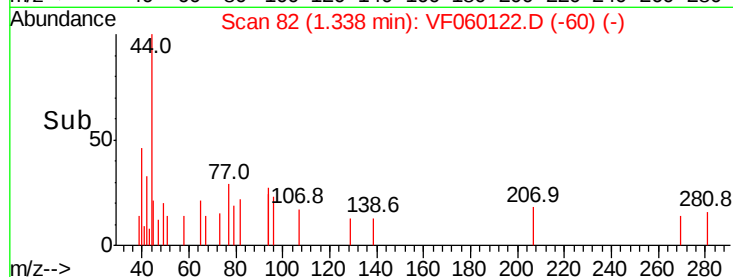
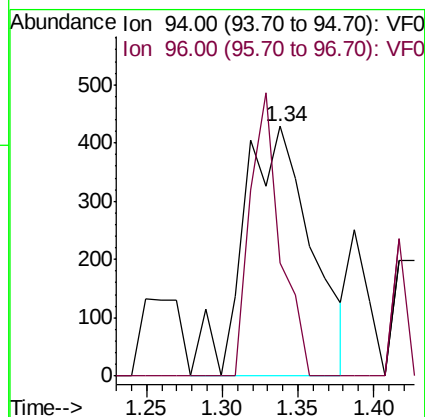
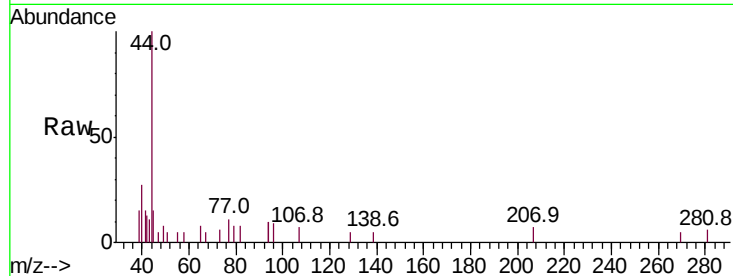
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 1338

Ion Ratio Lower Upper

94 100

96 45.0 78.6 118.0#



#11

Tert butyl alcohol

Concen: 3.480 ug/l

RT: 2.66 min Scan# 216

Delta R.T. -0.02 min

Lab File: VF060122.D

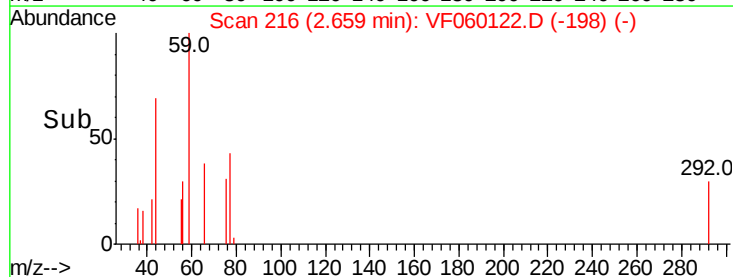
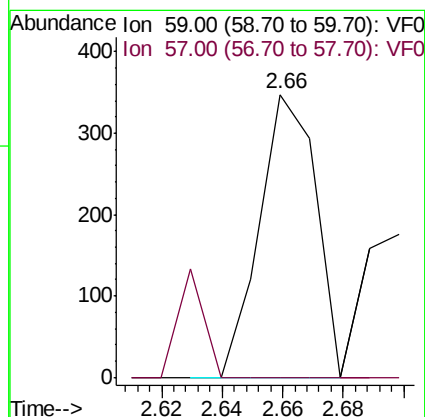
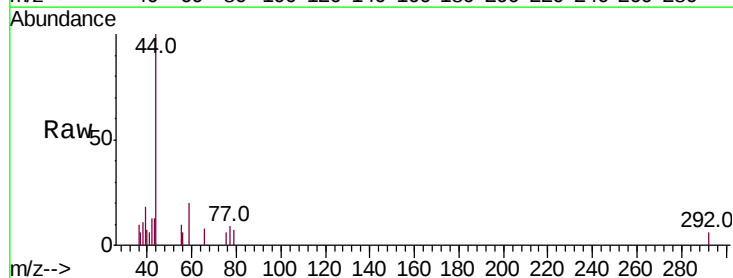
Acq: 27 Aug 2018 13:55

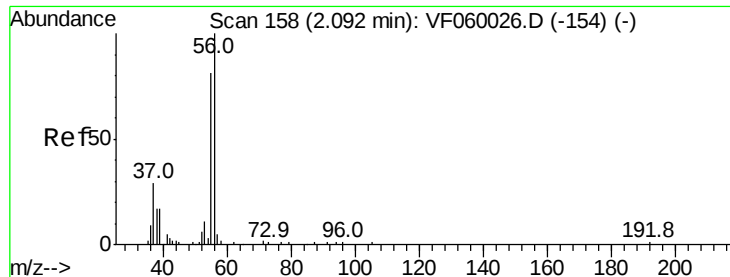
Tgt Ion: 59 Resp: 450

Ion Ratio Lower Upper

59 100

57 0.0 5.4 8.2#





#13

Acrolein

Concen: 27.467 ug/l

RT: 2.13 min Scan# 162

Delta R.T. 0.03 min

Lab File: VF060122.D

Acq: 27 Aug 2018 13:55

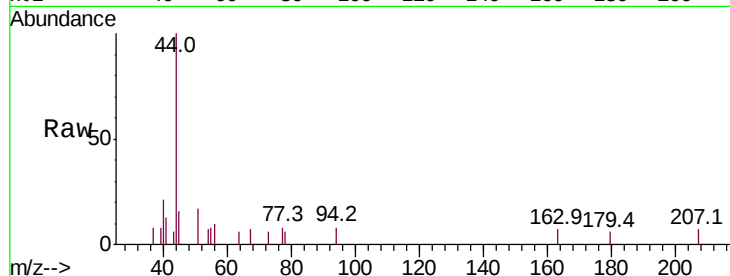
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 101

Ion Ratio Lower Upper

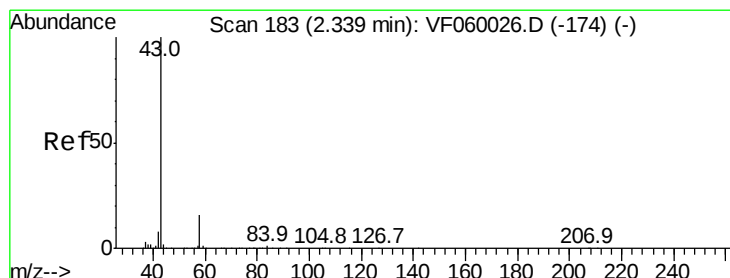
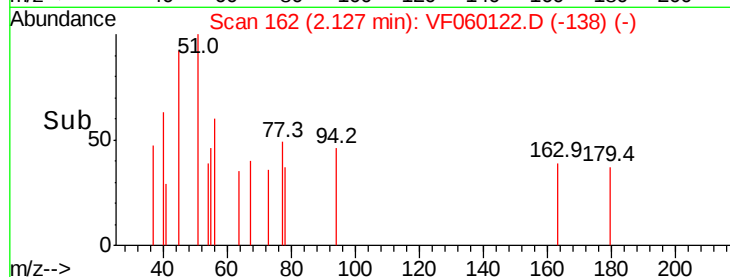
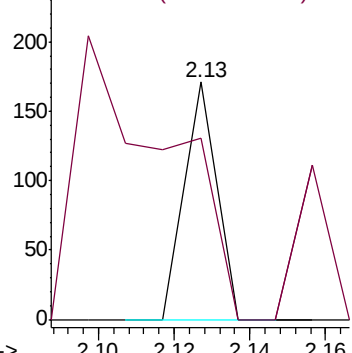
56 100

55 76.6 65.6 98.4



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#16

Acetone

Concen: 7.372 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF060122.D

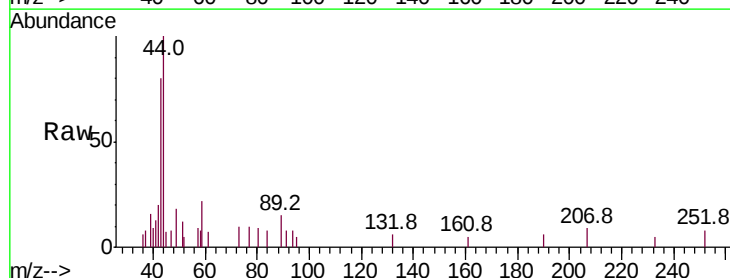
Acq: 27 Aug 2018 13:55

Tgt Ion: 43 Resp: 4710

Ion Ratio Lower Upper

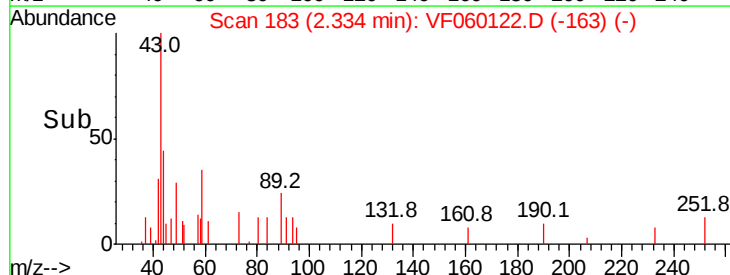
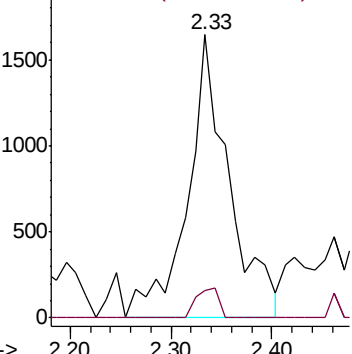
43 100

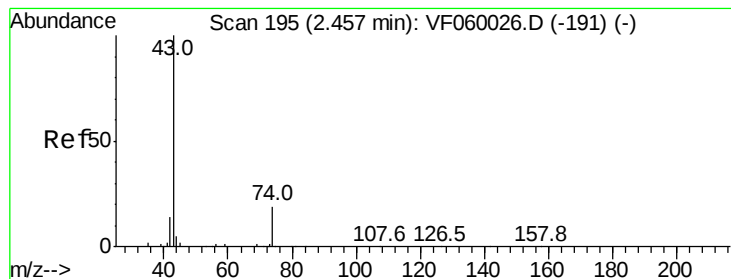
58 9.7 12.6 19.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#18

Methyl Acetate

Concen: Below Cal

RT: 2.46 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF060122.D

Acq: 27 Aug 2018 13:55

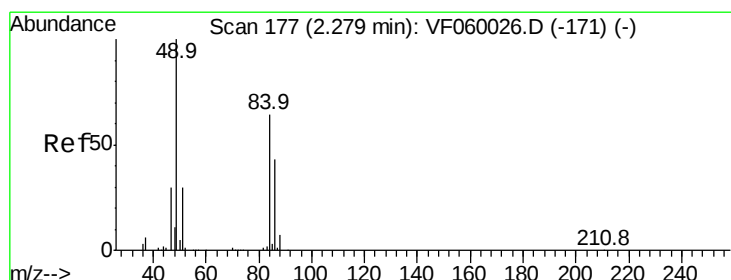
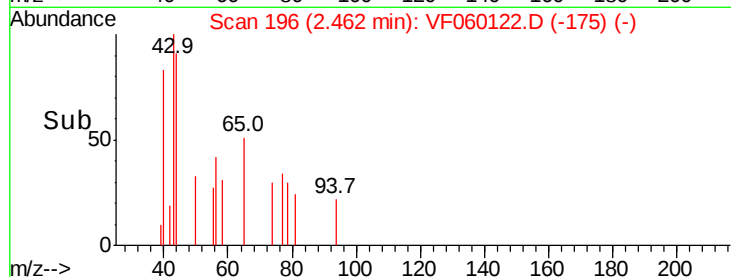
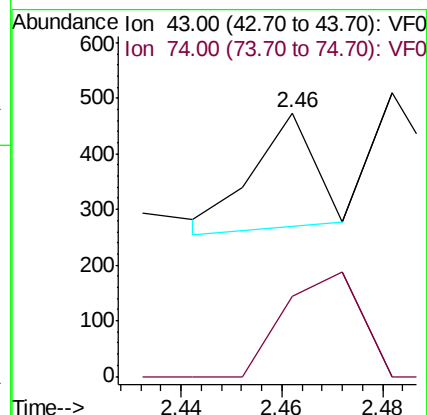
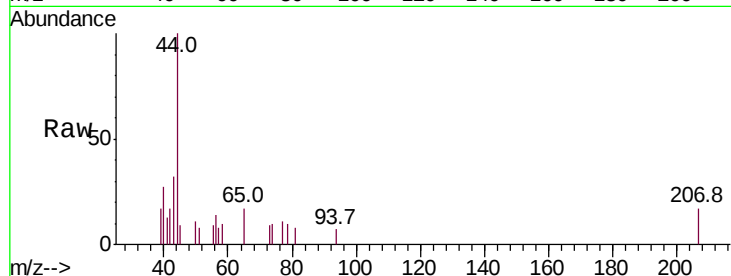
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 173

Ion Ratio Lower Upper

43 100

74 30.2 13.8 20.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.27 min Scan# 177

Delta R.T. -0.00 min

Lab File: VF060122.D

Acq: 27 Aug 2018 13:55

Tgt Ion: 84 Resp: 4787

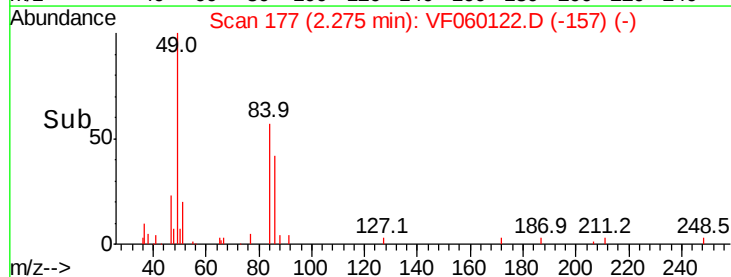
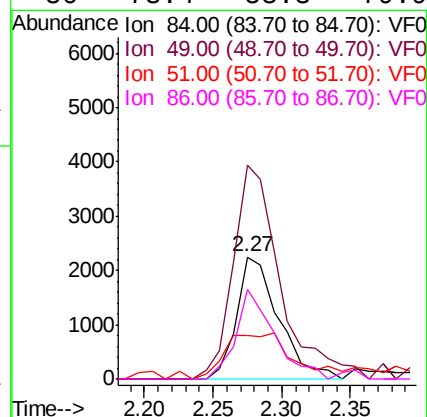
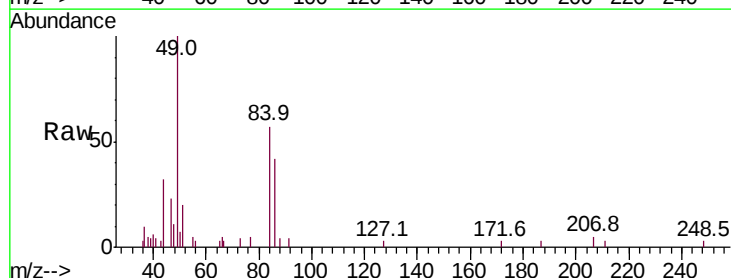
Ion Ratio Lower Upper

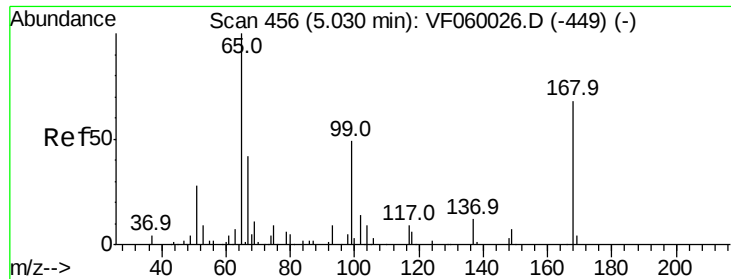
84 100

49 174.9 125.4 188.0

51 35.4 38.3 57.5#

86 73.4 53.3 79.9





#33

1,2-Dichloroethane-d4

Concen: 56.302 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF060122.D

Acq: 27 Aug 2018 13:55

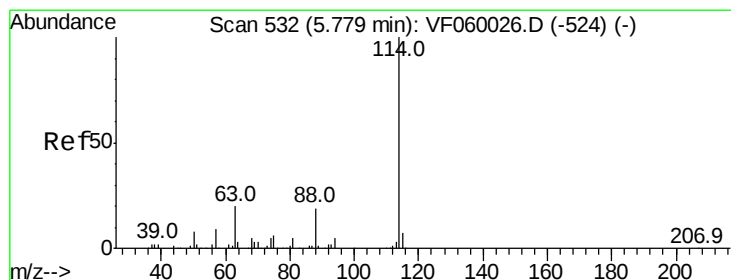
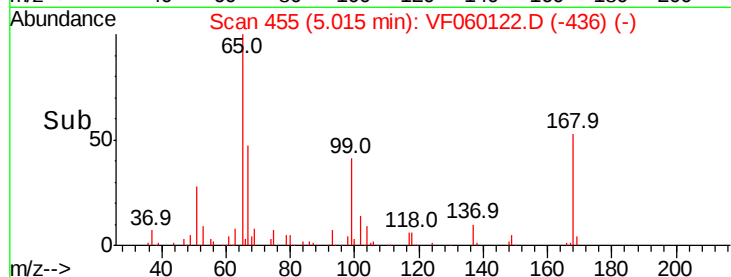
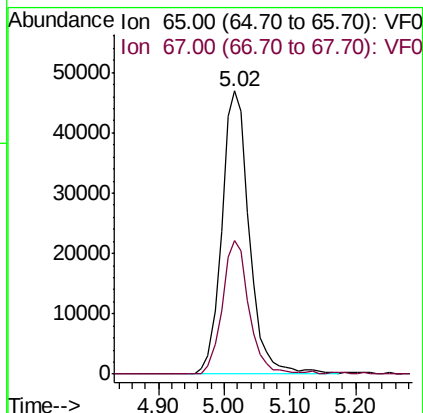
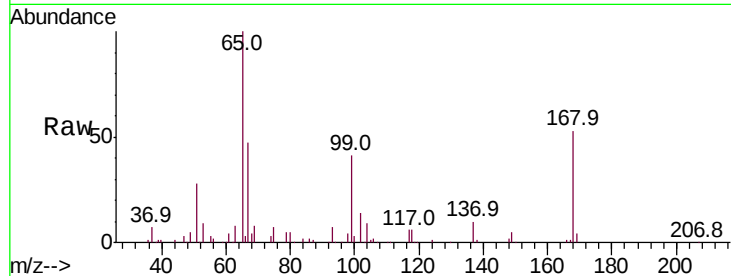
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 136870

Ion Ratio Lower Upper

65 100

67 47.2 0.0 92.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 532

Delta R.T. -0.00 min

Lab File: VF060122.D

Acq: 27 Aug 2018 13:55

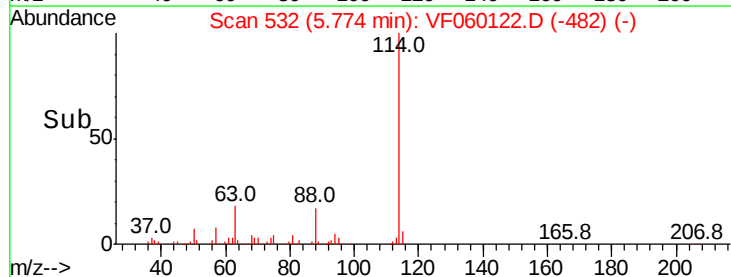
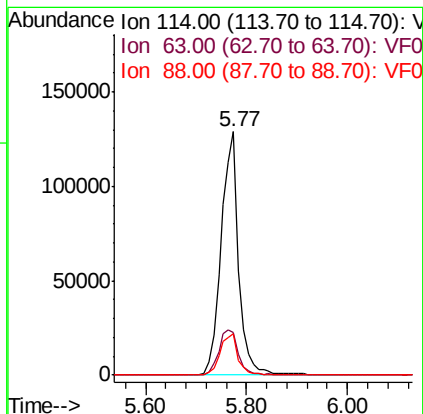
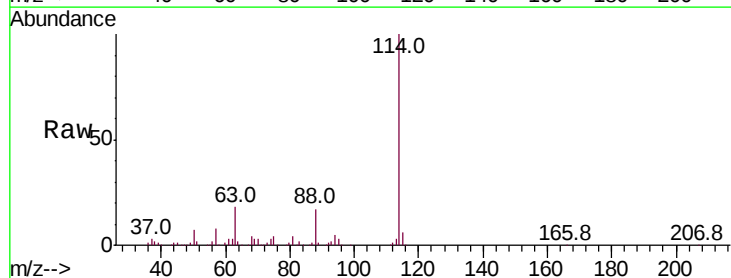
Tgt Ion:114 Resp: 311908

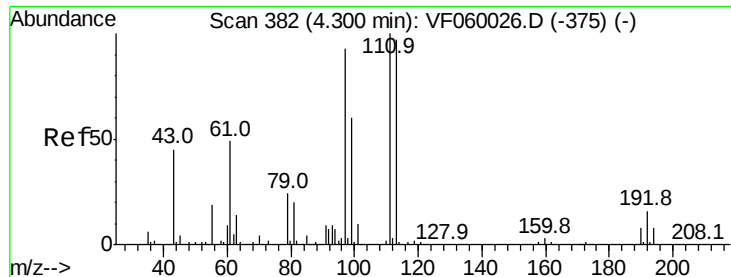
Ion Ratio Lower Upper

114 100

63 17.5 0.0 40.4

88 17.2 0.0 38.6

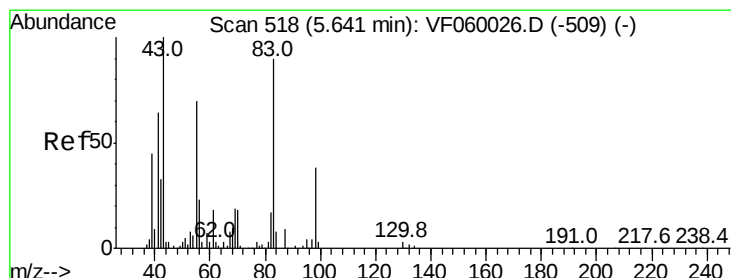
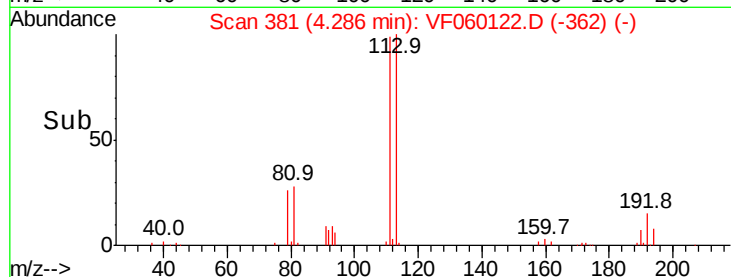
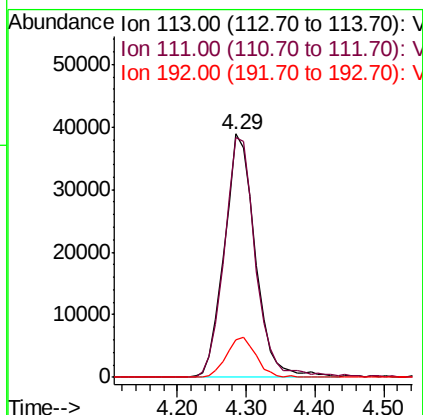
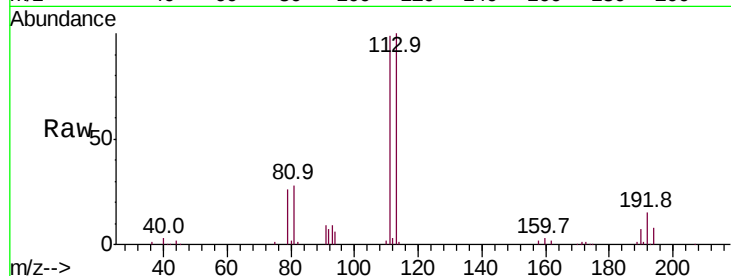




#35
 Dibromofluoromethane
 Concen: 49.371 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VF060122.D
 Acq: 27 Aug 2018 13:55

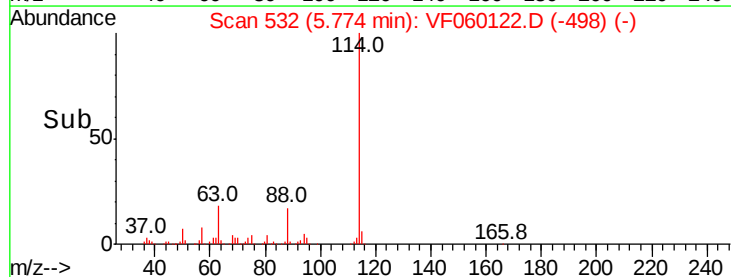
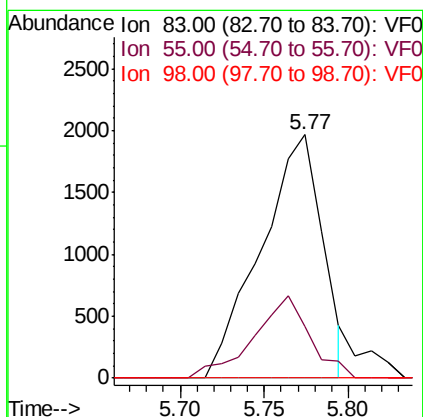
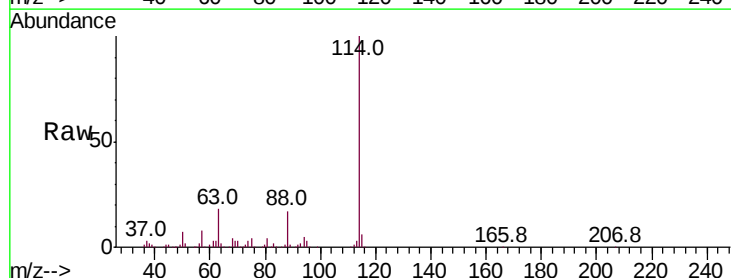
Instrument :
 MSVOA_F
 ClientSampleId :

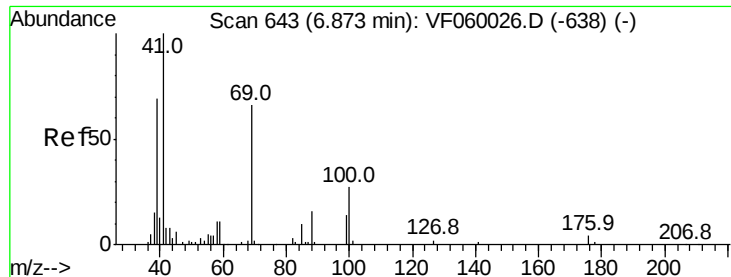
Tot Ion	Ratio	Lower	Upper
113	100		
111	98.6	82.7	124.1
192	15.2	13.0	19.4



#39
 Methylcyclohexane
 Concen: 1.824 ug/l
 RT: 5.77 min Scan# 532
 Delta R.T. 0.13 min
 Lab File: VF060122.D
 Acq: 27 Aug 2018 13:55

Tgt Ion	Ratio	Lower	Upper
83	100		
55	21.4	62.7	94.1#
98	0.0	33.8	50.8#

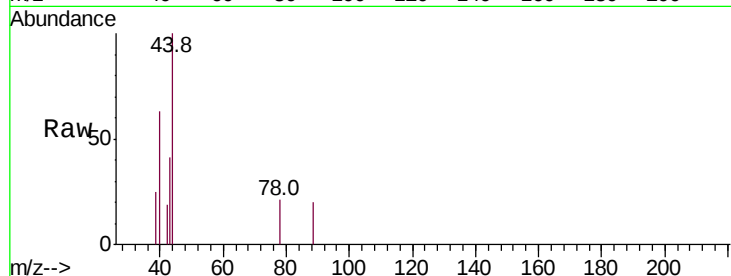




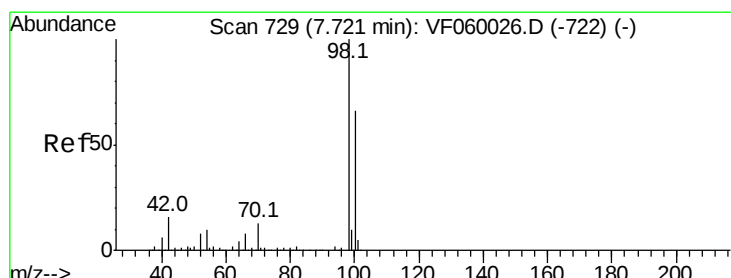
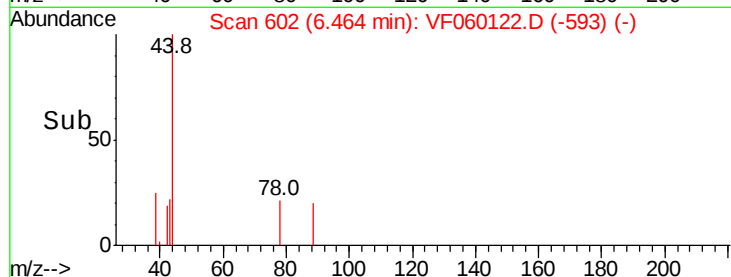
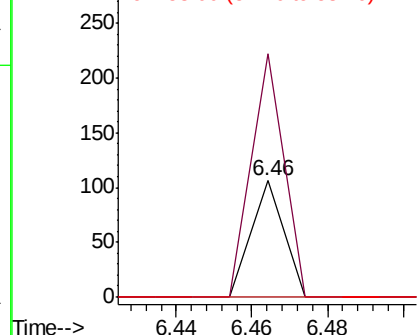
#49
1,4-Dioxane
Concen: 4.495 ug/l
RT: 6.46 min Scan# 602
Delta R.T. -0.41 min
Lab File: VF060122.D
Acq: 27 Aug 2018 13:55

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 209.4 46.5 69.7#
58 0.0 54.8 82.2#

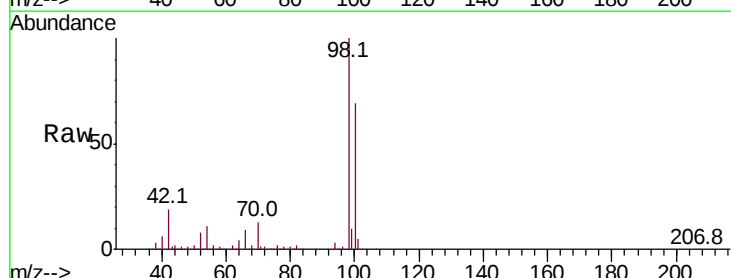


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

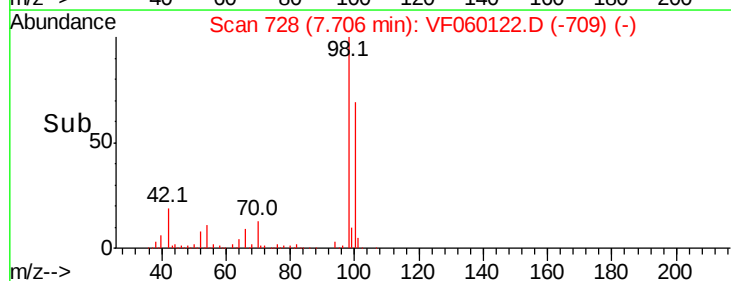
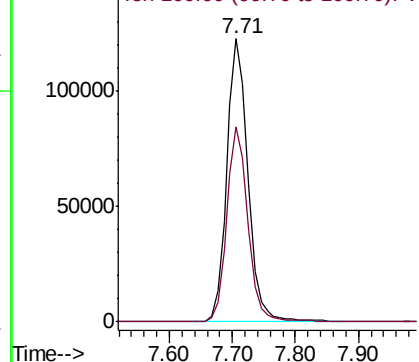


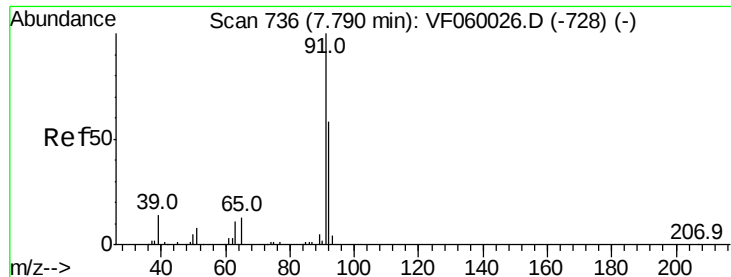
#50
Toluene-d8
Concen: 41.174 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF060122.D
Acq: 27 Aug 2018 13:55

Tgt Ion: 98 Resp: 286405
Ion Ratio Lower Upper
98 100
100 68.9 53.2 79.8



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#52

Toluene

Concen: Below Cal

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF060122.D

Acq: 27 Aug 2018 13:55

Instrument :

MSVOA_F

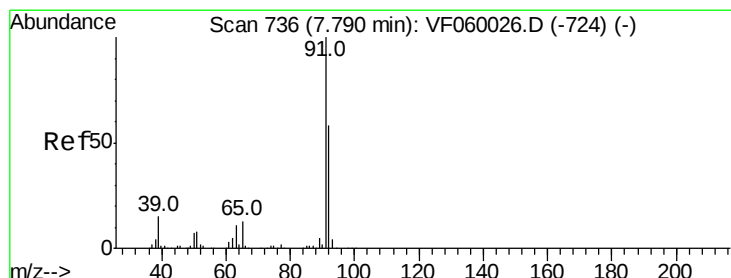
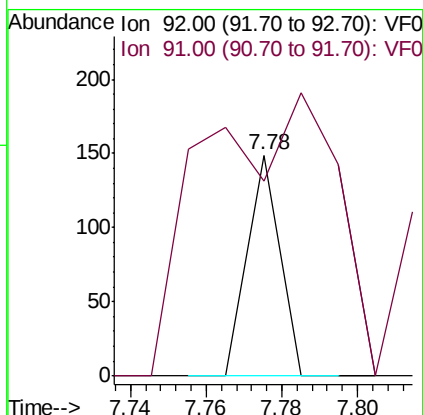
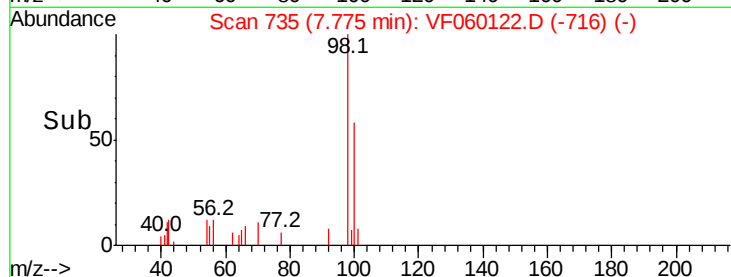
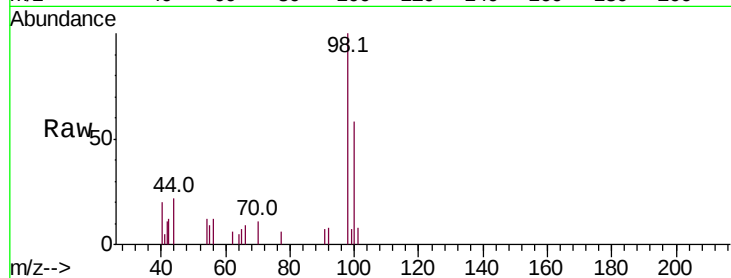
ClientSampleId :

Tot Ion: 92 Resp: 88

Ion Ratio Lower Upper

92 100

91 87.9 137.7 206.5#



#58

2-Chloroethyl Vinyl ether

Concen: 3.084 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.08 min

Lab File: VF060122.D

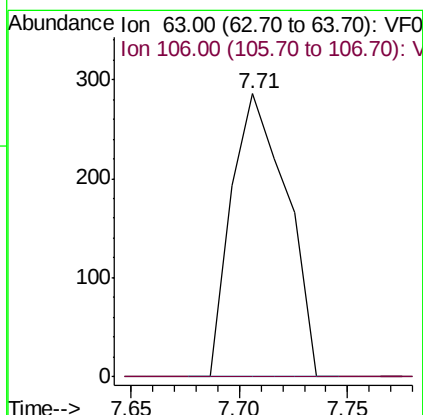
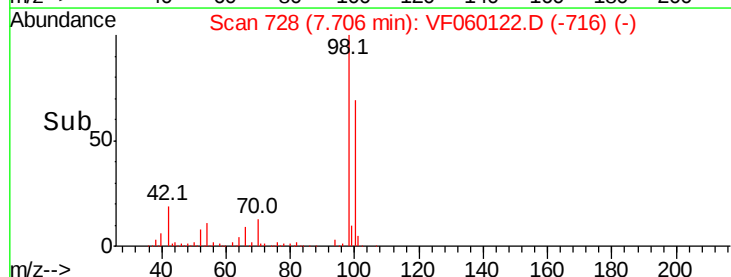
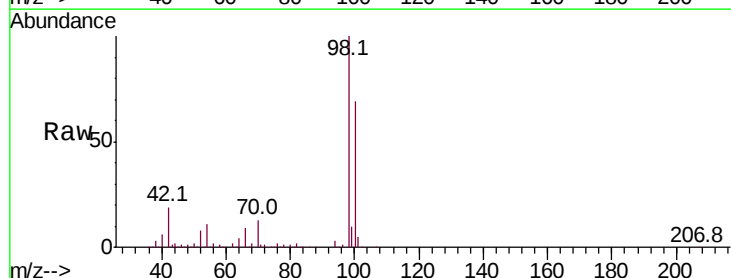
Acq: 27 Aug 2018 13:55

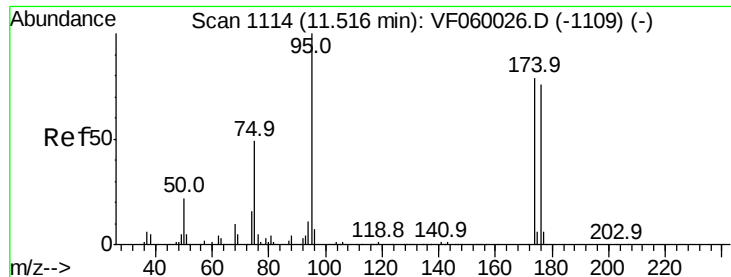
Tgt Ion: 63 Resp: 512

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





#62

4-Bromofluorobenzene

Concen: 43.079 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF060122.D

Acq: 27 Aug 2018 13:55

Instrument :

MSVOA_F

ClientSampleId :

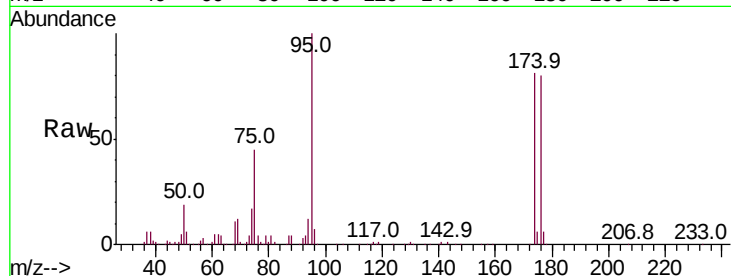
Tot Ion: 95 Resp: 158518

Ion Ratio Lower Upper

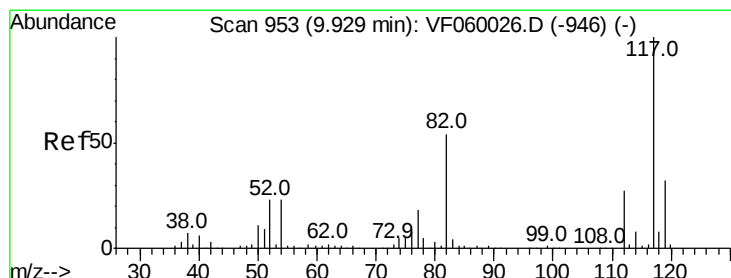
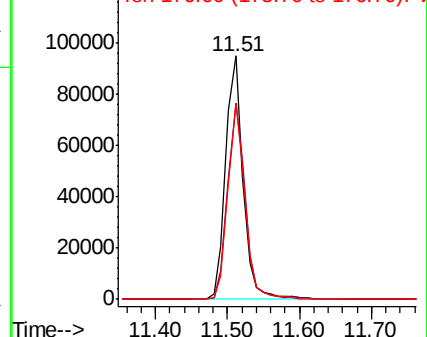
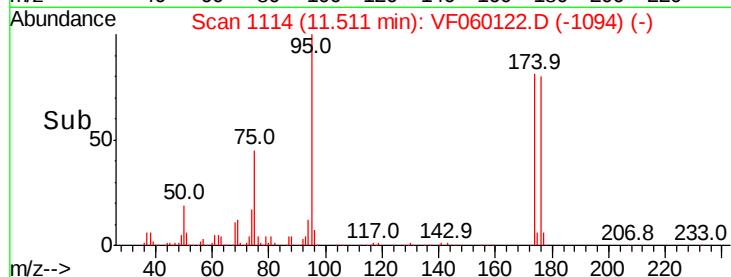
95 100

174 80.9 0.0 158.4

176 80.5 0.0 153.0



Abundance Ion 95.00 (94.70 to 95.70): VF060122.D (-1094) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. -0.01 min

Lab File: VF060122.D

Acq: 27 Aug 2018 13:55

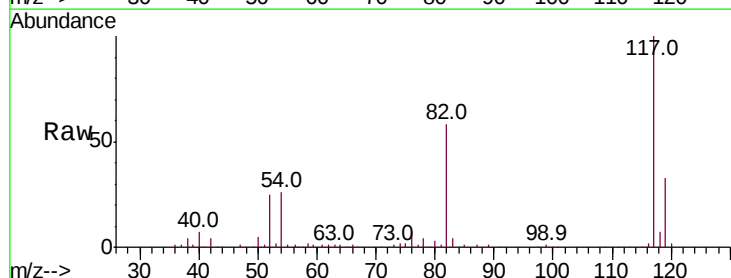
Tgt Ion: 117 Resp: 298936

Ion Ratio Lower Upper

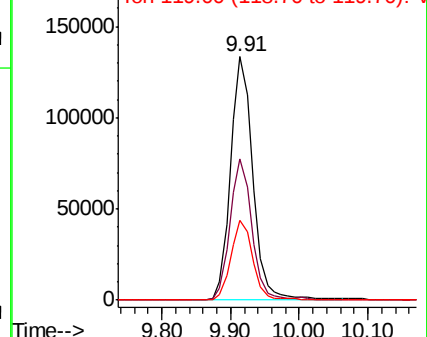
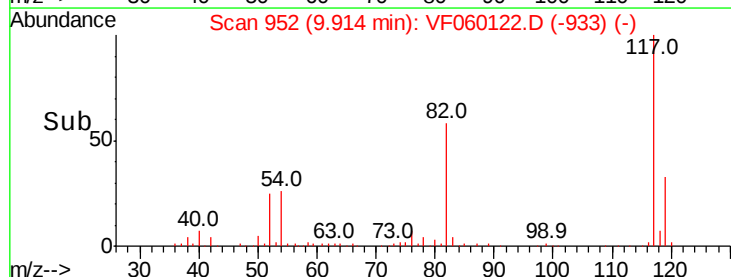
117 100

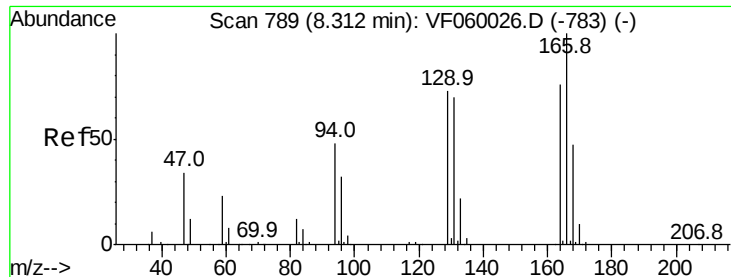
82 58.1 43.6 65.4

119 32.9 25.6 38.4



Abundance Ion 117.00 (116.70 to 117.70): VF060122.D (-933) (-)





#64

Tetrachloroethene

Concen: 1.734 ug/l

RT: 8.30 min Scan# 788

Delta R.T. -0.01 min

Lab File: VF060122.D

Acq: 27 Aug 2018 13:55

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:164 Resp: 3491

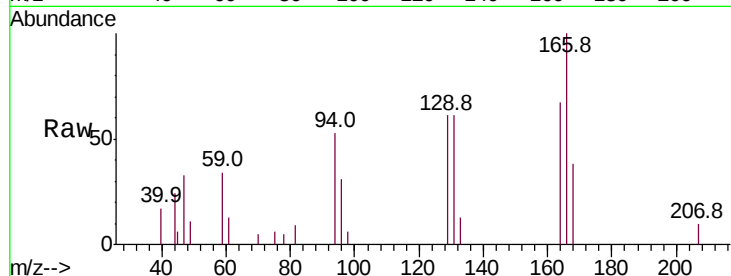
Ion Ratio Lower Upper

164 100

166 148.3 104.7 157.1

129 90.2 77.0 115.4

131 90.1 72.9 109.3



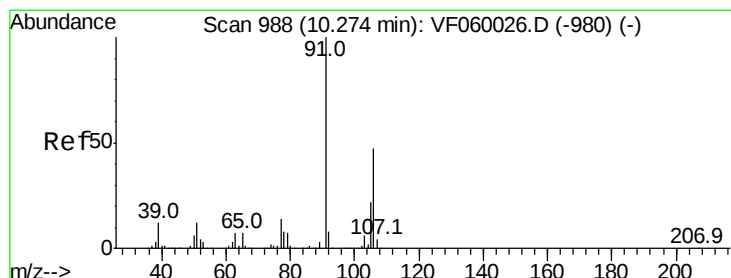
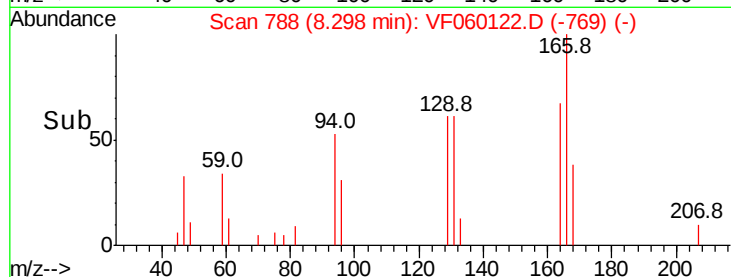
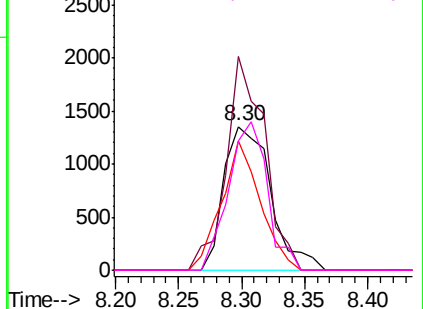
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#68

m/p-Xylenes

Concen: Below Cal

RT: 10.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VF060122.D

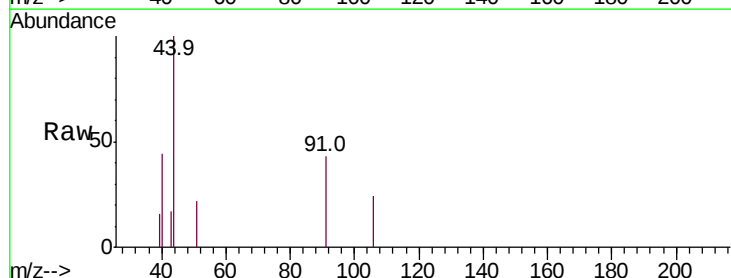
Acq: 27 Aug 2018 13:55

Tgt Ion:106 Resp: 337

Ion Ratio Lower Upper

106 100

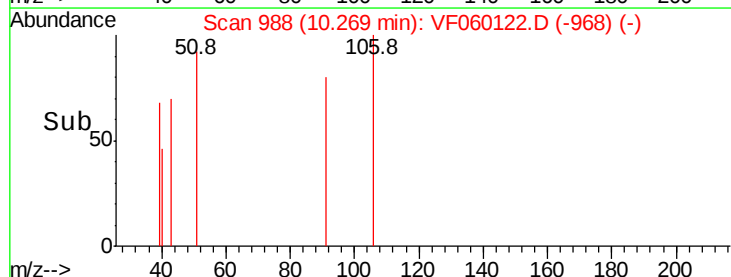
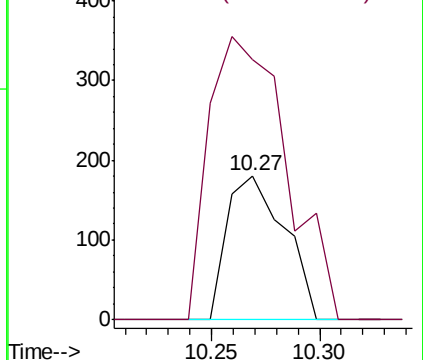
91 180.7 171.8 257.8

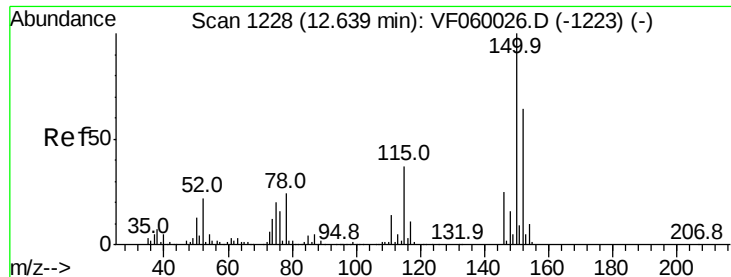


Abundance

Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



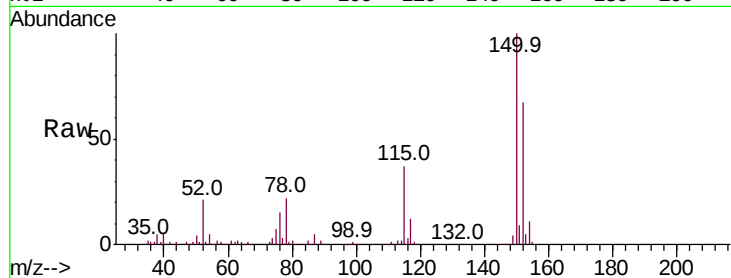


#72

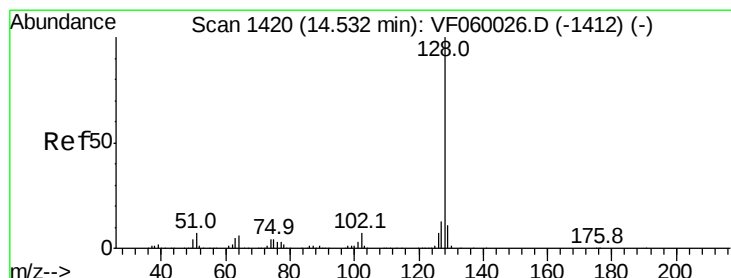
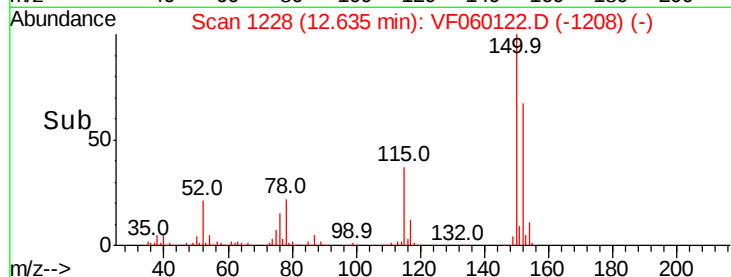
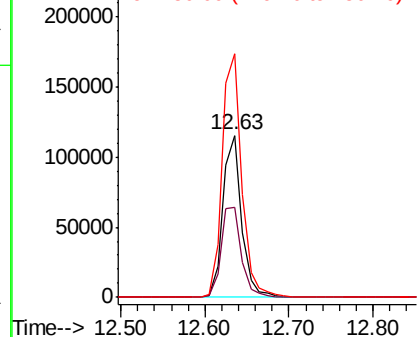
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VF060122.D
Acq: 27 Aug 2018 13:55

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.3	28.6	85.9
150	150.3	0.0	312.0



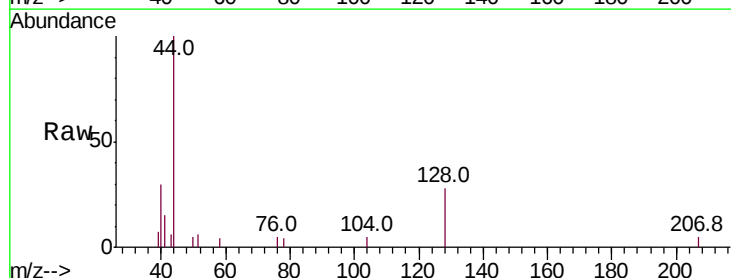
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



#95

Naphthalene
Concen: 2.415 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.00 min
Lab File: VF060122.D
Acq: 27 Aug 2018 13:55

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.5	12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

