

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120618\
 Data File : VF060918.D
 Acq On : 6 Dec 2018 15:40
 Operator : VA/AP
 Sample : J6248-02
 Misc : 4.35g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 06 16:23:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

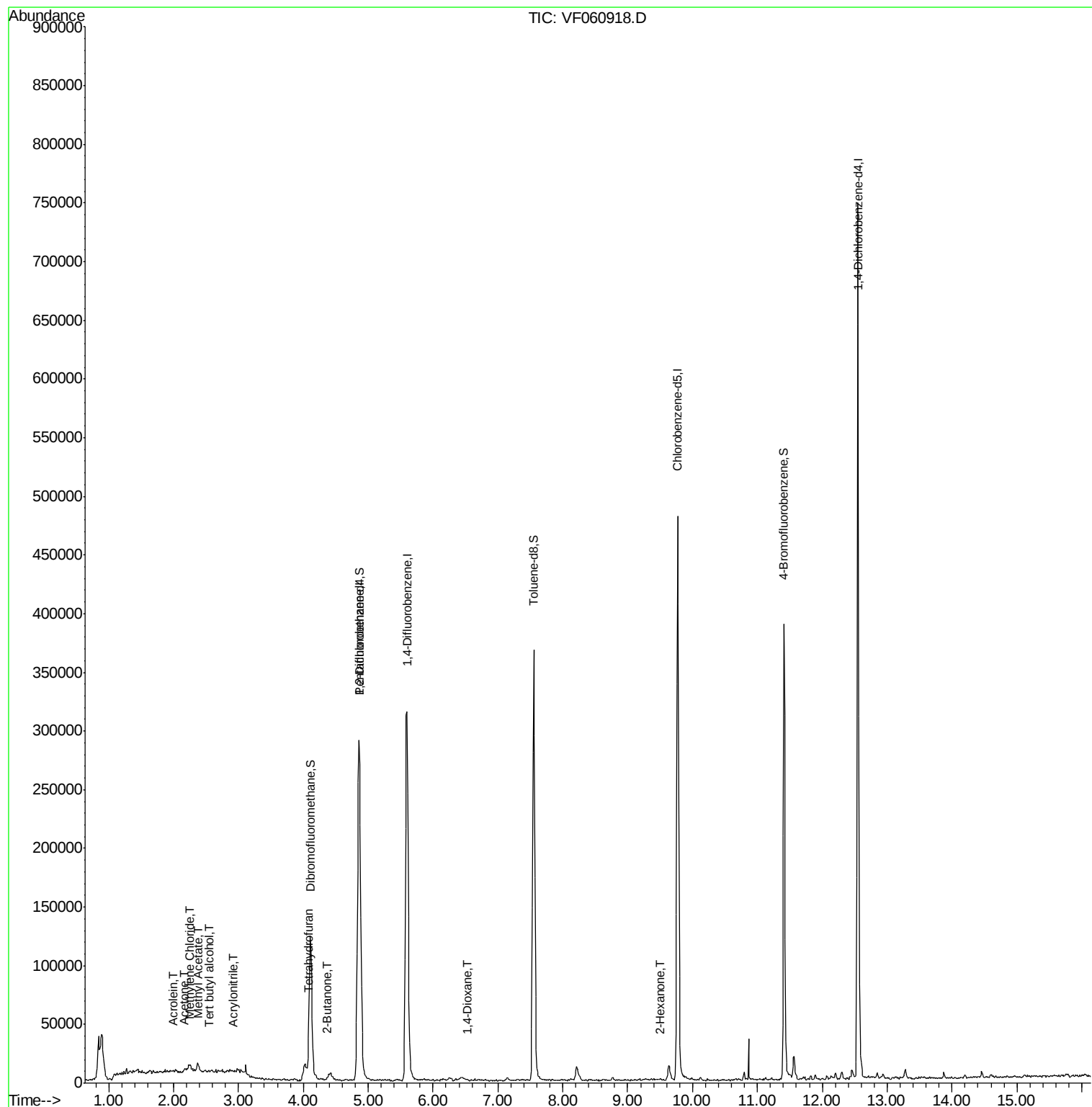
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	213292	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	359431	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	330442	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	190774	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	112605	44.82	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	89.64%	
35) Dibromofluoromethane	4.11	113	113548	39.82	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	79.64%	
50) Toluene-d8	7.55	98	298089	35.49	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	70.98%	
62) 4-Bromofluorobenzene	11.41	95	147991	38.77	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	77.54%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.56	59	107	1.039	ug/l #	62
13) Acrolein	2.00	56	844	8.649	ug/l #	73
15) Acrylonitrile	2.92	53	592	2.564	ug/l #	81
16) Acetone	2.16	43	1377	2.972	ug/l	98
18) Methyl Acetate	2.38	43	3328	2.720	ug/l #	61
20) Methylene Chloride	2.26	84	3911	2.301	ug/l #	70
25) 2-Butanone	4.35	43	1069	1.334	ug/l #	57
29) Tetrahydrofuran	4.07	42	787	2.317	ug/l #	47
41) Methacrylonitrile	4.74	41	294	Below Cal	#	46
43) Isopropyl Acetate	6.98	43	1140	Below Cal	#	49
49) 1,4-Dioxane	6.52	88	73	6.802	ug/l #	1
59) 2-Hexanone	9.49	43	1825	1.741	ug/l	86
95) Naphthalene	14.46	128	2694	Below Cal		96

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

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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
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: VF060918.D

Acq: 6 Dec 2018 15:40

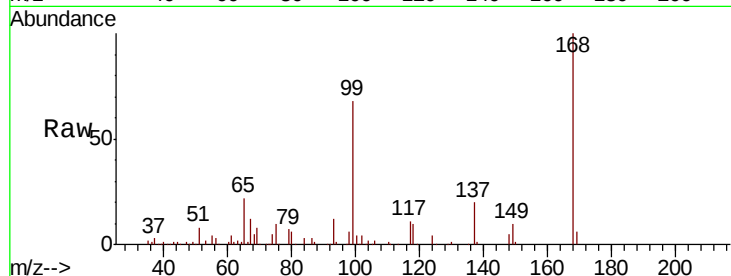
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 213292

Ion Ratio Lower Upper

168 100

99 67.9 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF060918.D (-414) (-)

Ion 99.00 (98.70 to 99.70): VF060918.D (-414) (-)

4.87

60000

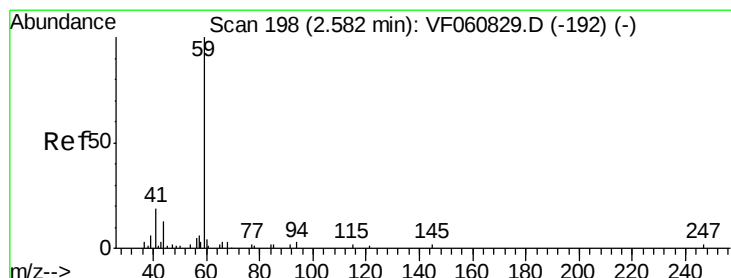
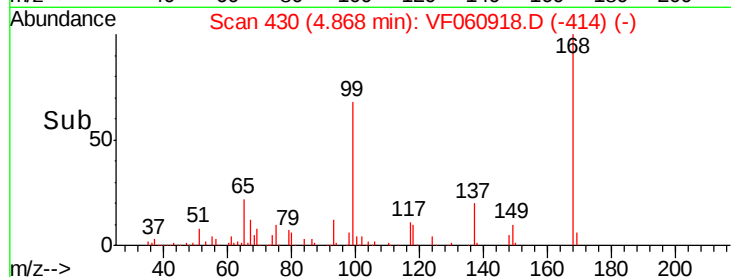
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.039 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF060918.D

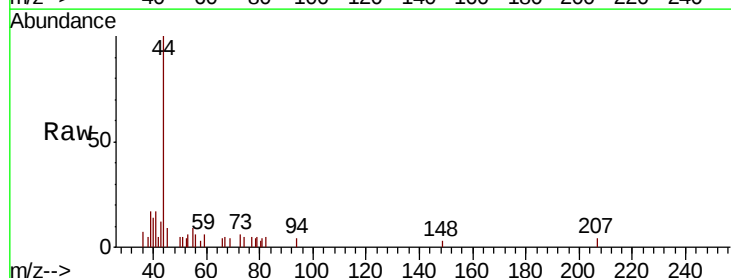
Acq: 6 Dec 2018 15:40

Tgt Ion: 59 Resp: 107

Ion Ratio Lower Upper

59 100

57 0.0 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF060918.D (-178) (-)

Ion 57.00 (56.70 to 57.70): VF060918.D (-178) (-)

2.56

300

250

200

150

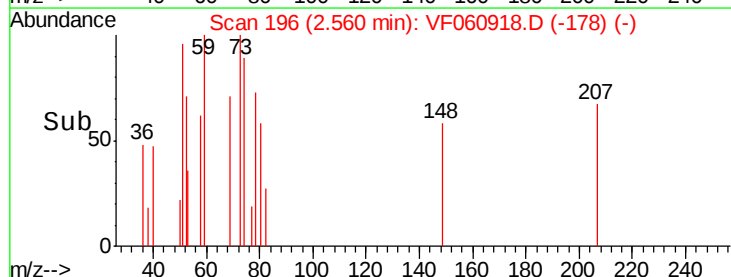
100

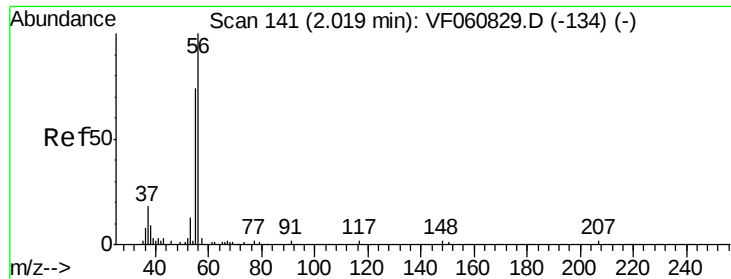
50

0

Time-->

2.54 2.56 2.58





#13

Acrolein

Concen: 8.649 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF060918.D

Acq: 6 Dec 2018 15:40

Instrument :

MSVOA_F

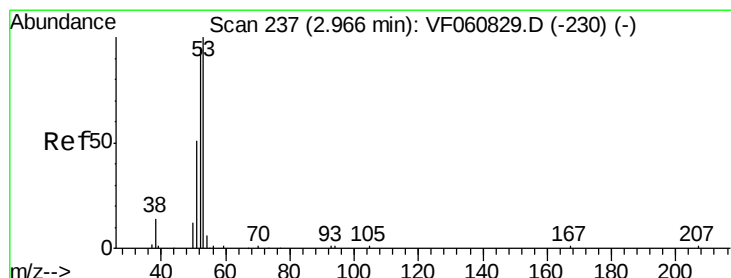
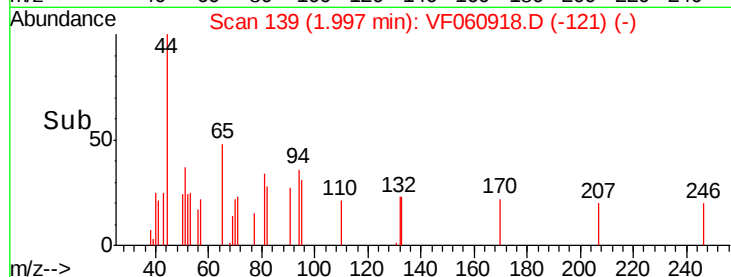
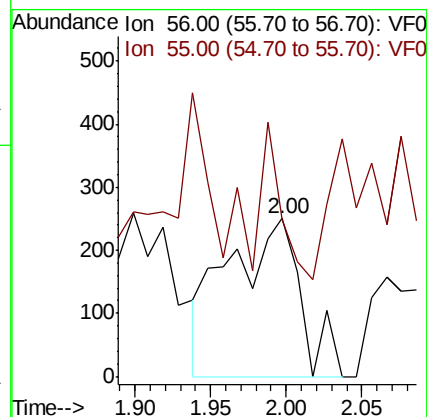
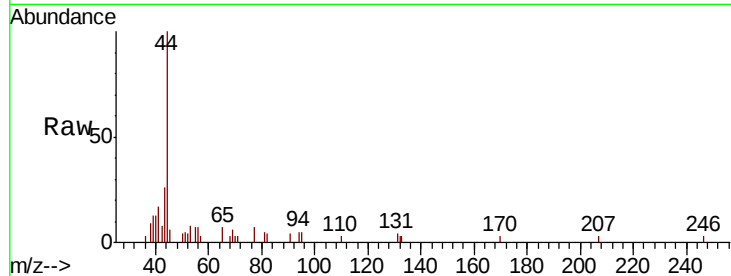
ClientSampled :

Tot Ion: 56 Resp: 844

Ion Ratio Lower Upper

56 100

55 99.6 61.2 91.8#



#15

Acrylonitrile

Concen: 2.564 ug/l

RT: 2.92 min Scan# 233

Delta R.T. -0.04 min

Lab File: VF060918.D

Acq: 6 Dec 2018 15:40

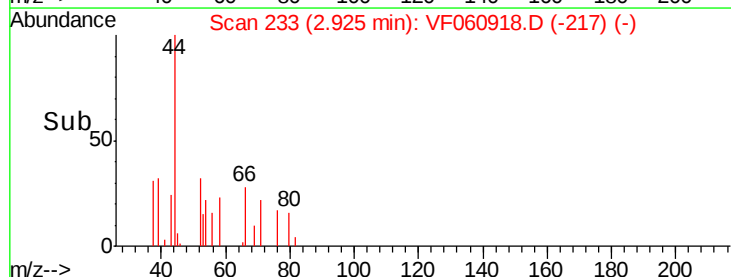
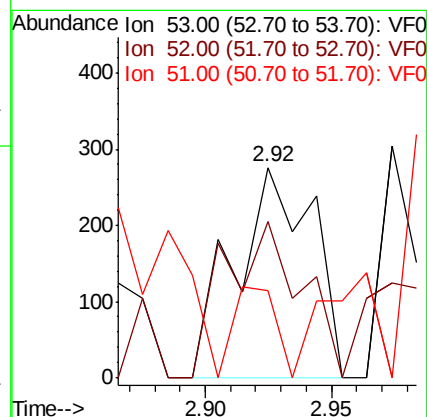
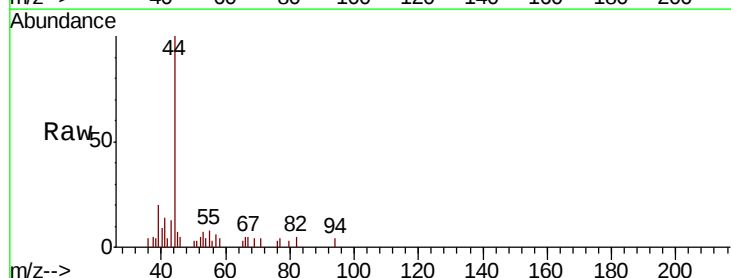
Tgt Ion: 53 Resp: 592

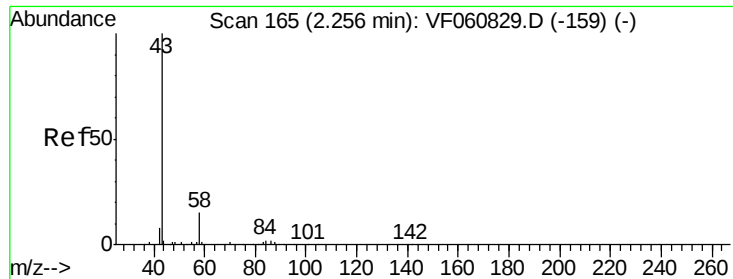
Ion Ratio Lower Upper

53 100

52 74.3 76.5 114.7#

51 41.7 40.7 61.1





#16

Acetone

Concen: 2.972 ug/l

RT: 2.16 min Scan# 155

Delta R.T. -0.10 min

Lab File: VF060918.D

Acq: 6 Dec 2018 15:40

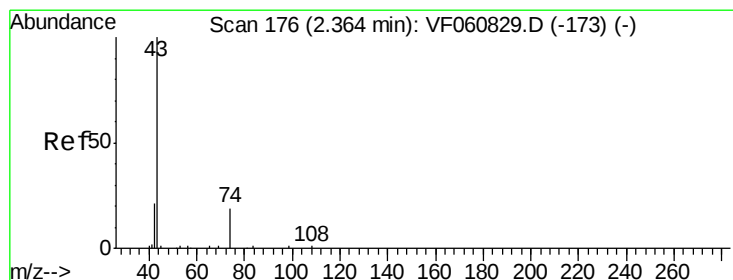
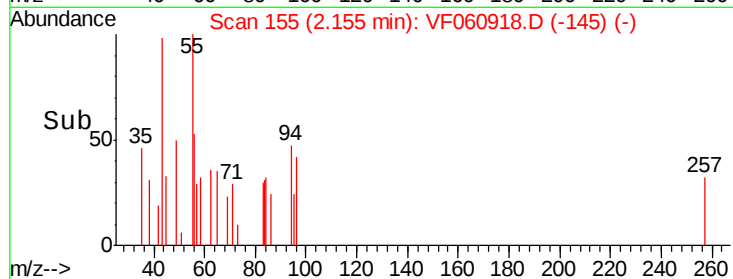
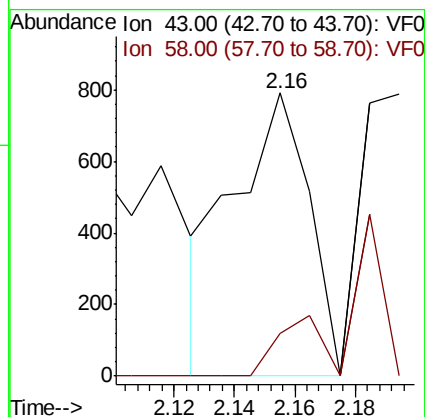
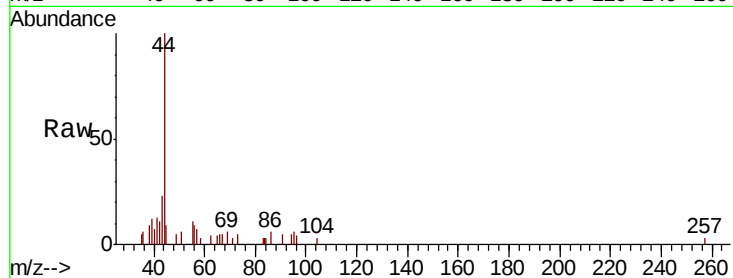
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1377

Ion Ratio Lower Upper

43 100

58 14.9 11.4 17.2



#18

Methyl Acetate

Concen: 2.720 ug/l

RT: 2.38 min Scan# 178

Delta R.T. 0.02 min

Lab File: VF060918.D

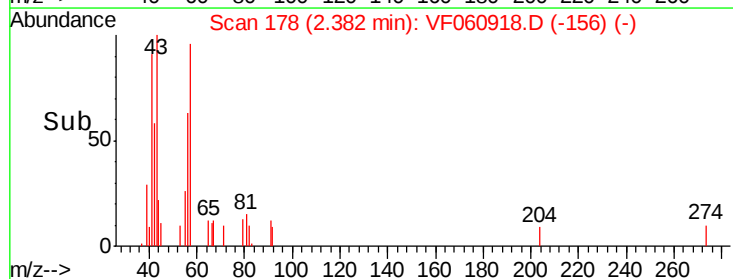
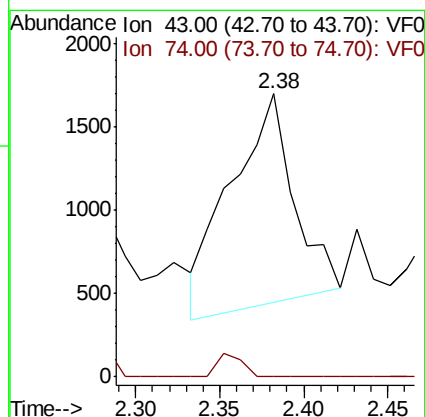
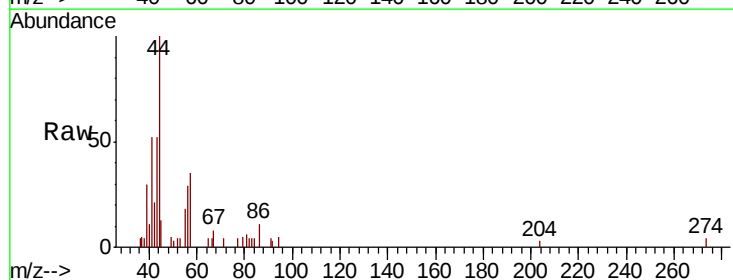
Acq: 6 Dec 2018 15:40

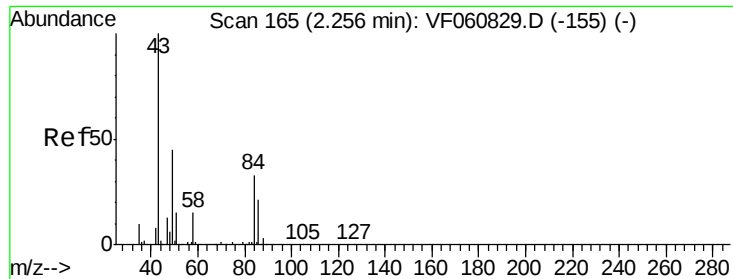
Tgt Ion: 43 Resp: 3328

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#

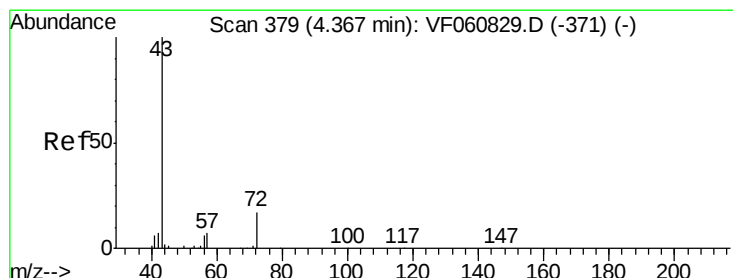
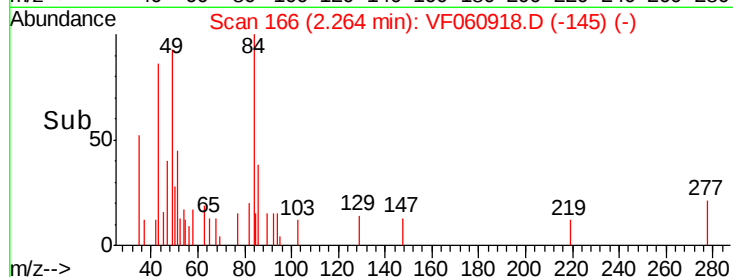
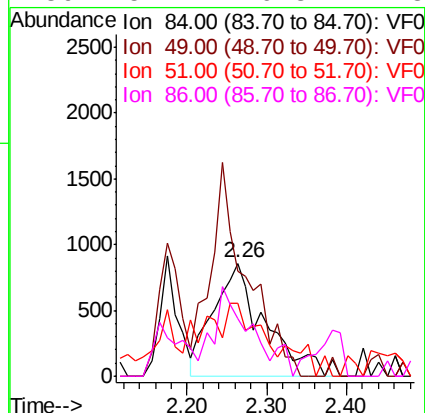
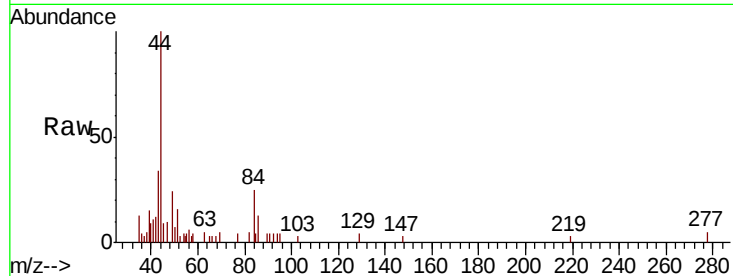




#20
Methvlene Chloride
Concen: 2.301 ug/l
RT: 2.26 min Scan# 166
Delta R.T. 0.01 min
Lab File: VF060918.D
Acq: 6 Dec 2018 15:40

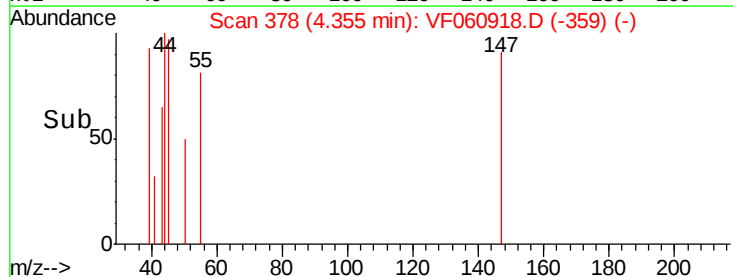
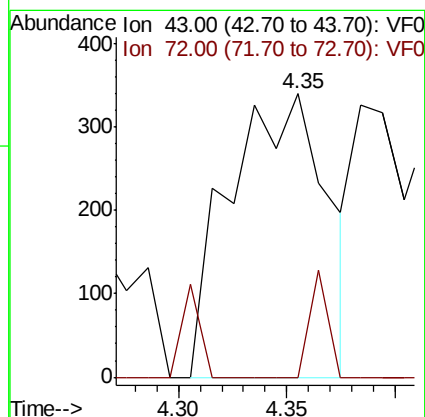
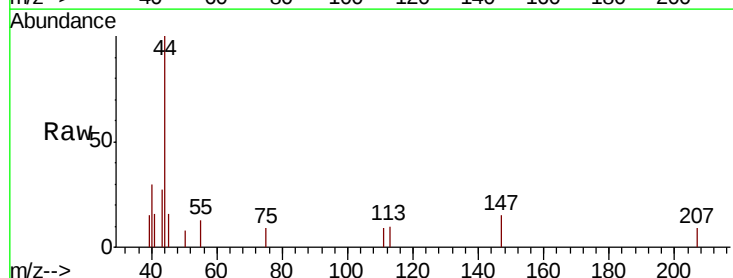
Instrument :
MSVOA_F
ClientSampled :

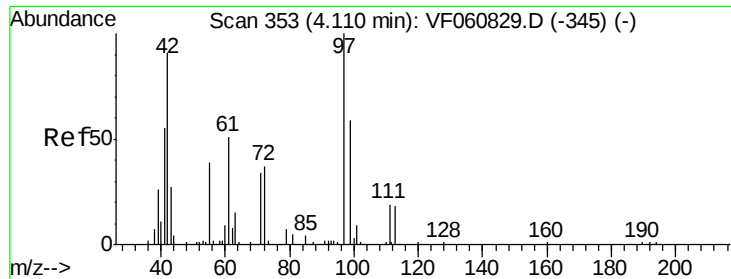
Tot Ion: 84 Resp: 3911
Ion Ratio Lower Upper
84 100
49 93.0 111.3 166.9#
51 64.5 38.0 57.0#
86 51.2 49.8 74.8



#25
2-Butanone
Concen: 1.334 ug/l
RT: 4.35 min Scan# 378
Delta R.T. -0.01 min
Lab File: VF060918.D
Acq: 6 Dec 2018 15:40

Tgt Ion: 43 Resp: 1069
Ion Ratio Lower Upper
43 100
72 0.0 15.4 23.2#

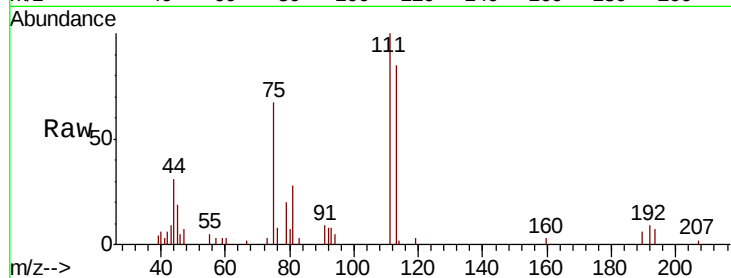




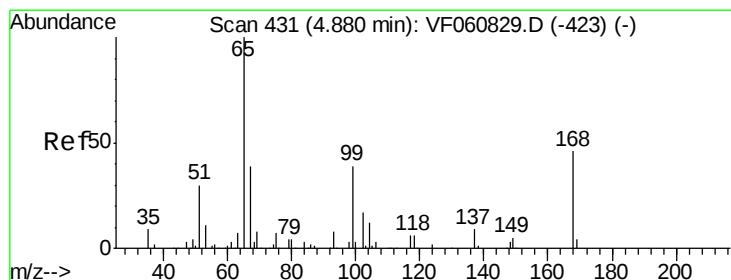
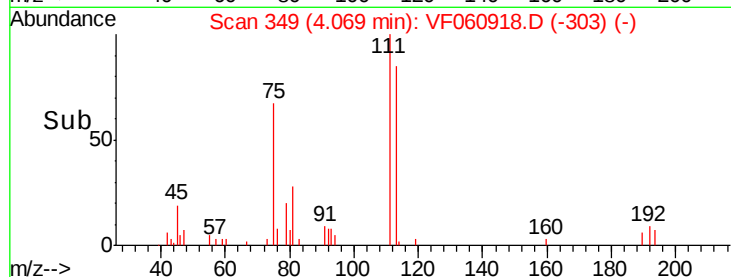
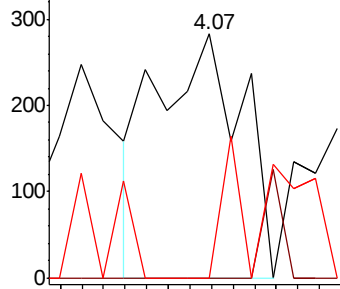
#29
Tetrahydrofuran
Concen: 2.317 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.04 min
Lab File: VF060918.D
Acq: 6 Dec 2018 15:40

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 42 Resp: 787
Ion Ratio Lower Upper
42 100
72 0.0 31.9 47.9#
71 12.3 28.7 43.1#

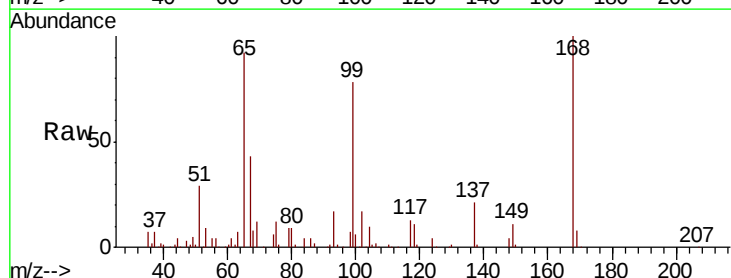


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

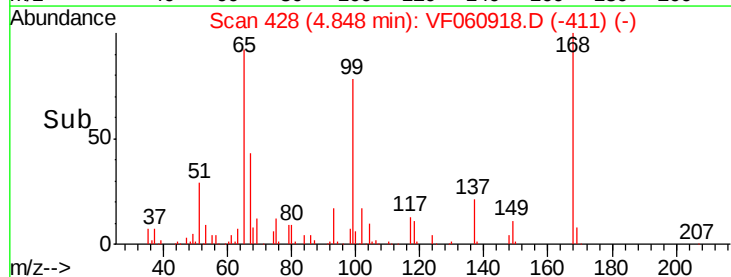
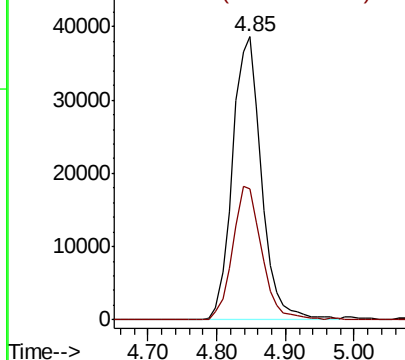


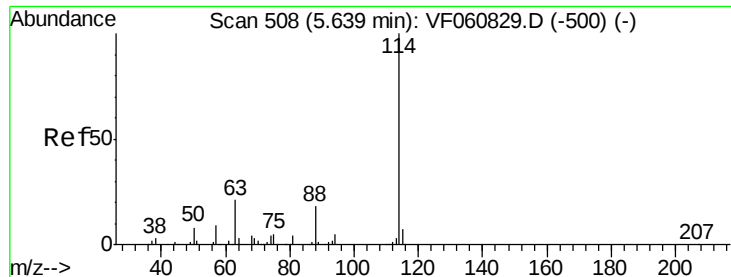
#33
1,2-Dichloroethane-d4
Concen: 44.815 ug/l
RT: 4.85 min Scan# 428
Delta R.T. -0.03 min
Lab File: VF060918.D
Acq: 6 Dec 2018 15:40

Tgt Ion: 65 Resp: 112605
Ion Ratio Lower Upper
65 100
67 46.3 0.0 96.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF060918.D

Acq: 6 Dec 2018 15:40

Instrument :

MSVOA_F

ClientSampleId :

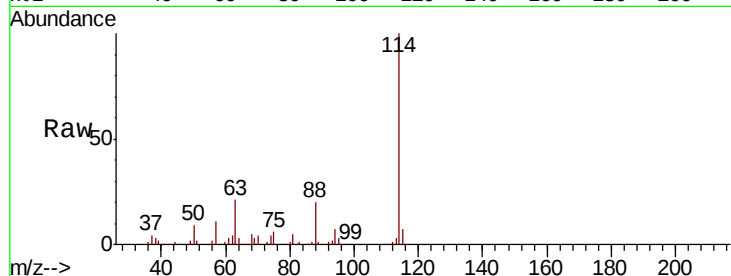
Tot Ion:114 Resp: 359431

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.6

88 20.4 0.0 36.6



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

150000

100000

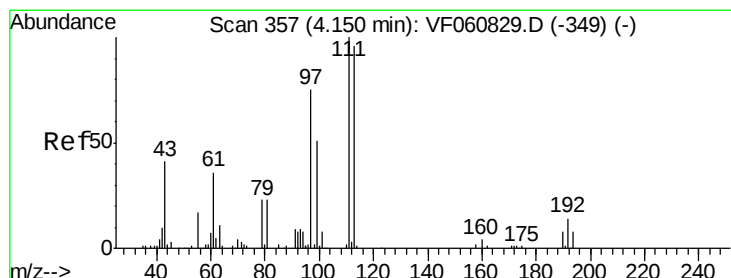
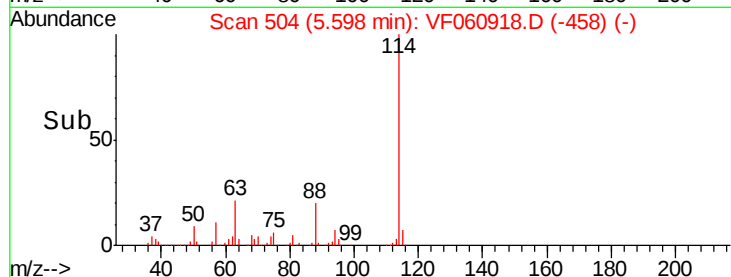
50000

0

5.60

5.50 5.60 5.70 5.80

Time-->



#35

Dibromofluoromethane

Concen: 39.821 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060918.D

Acq: 6 Dec 2018 15:40

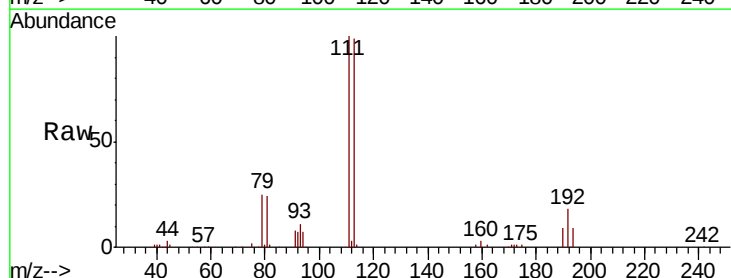
Tgt Ion:113 Resp: 113548

Ion Ratio Lower Upper

113 100

111 101.1 83.0 124.6

192 18.8 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

50000

40000

30000

20000

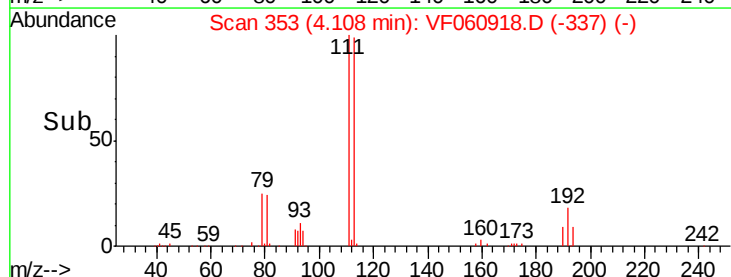
10000

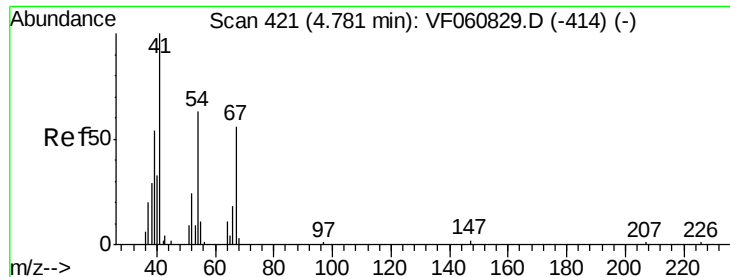
0

4.11

4.00 4.10 4.20 4.30

Time-->

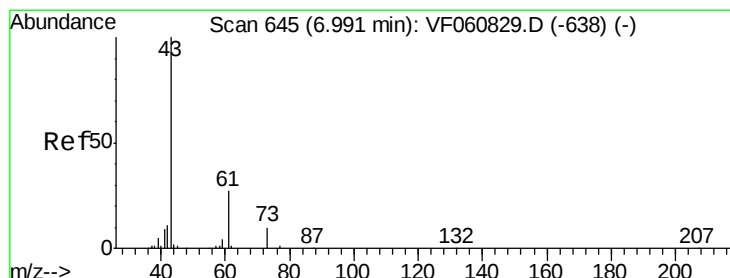
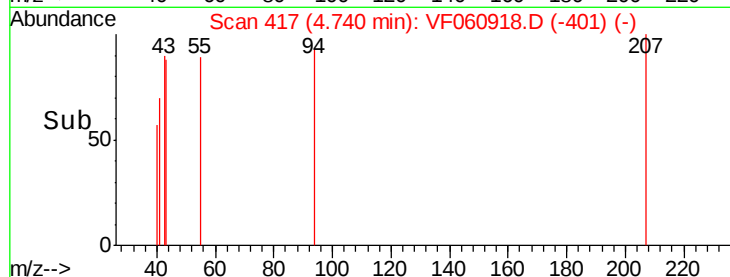
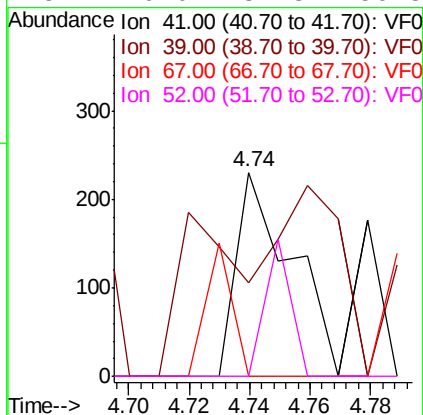
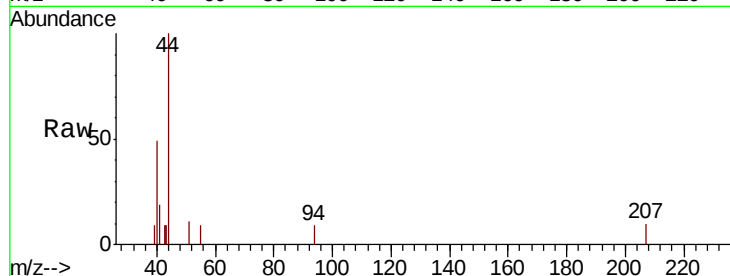




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF060918.D
Acq: 6 Dec 2018 15:40

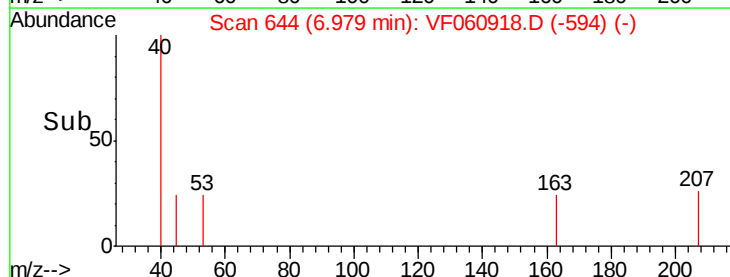
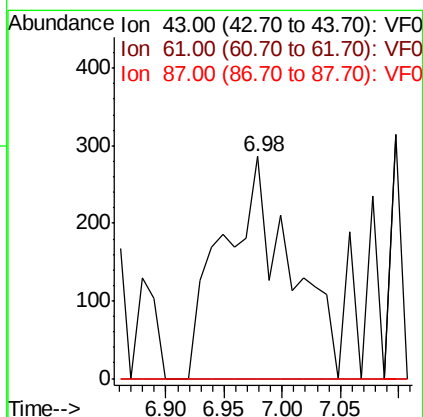
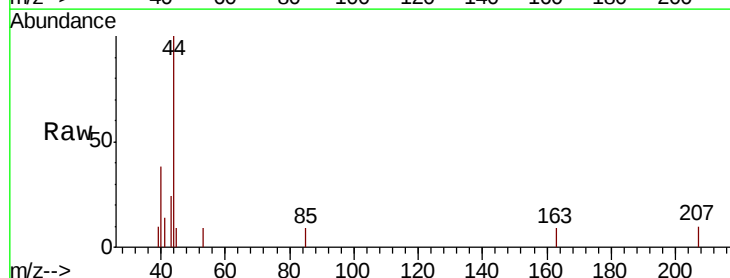
Instrument :
MSVOA_F
ClientSampleId :

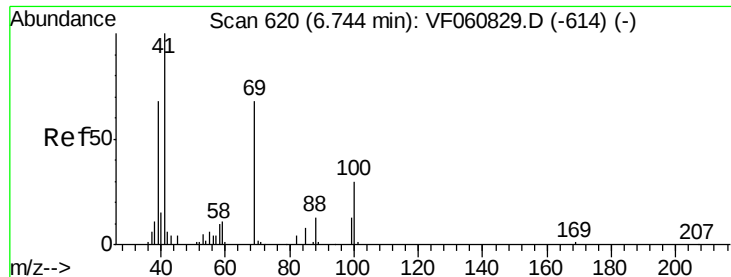
Tot Ion: 41 Resp: 294
Ion Ratio Lower Upper
41 100
39 46.1 53.0 79.6#
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.98 min Scan# 644
Delta R.T. -0.01 min
Lab File: VF060918.D
Acq: 6 Dec 2018 15:40

Tgt Ion: 43 Resp: 1140
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.0#
87 0.0 0.2 0.4#





#49

1,4-Dioxane

Concen: 6.802 ug/l

RT: 6.52 min Scan# 597

Delta R.T. -0.23 min

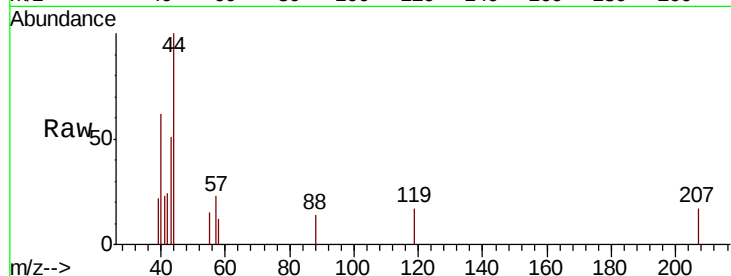
Lab File: VF060918.D

Acq: 6 Dec 2018 15:40

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 88 Resp: 73

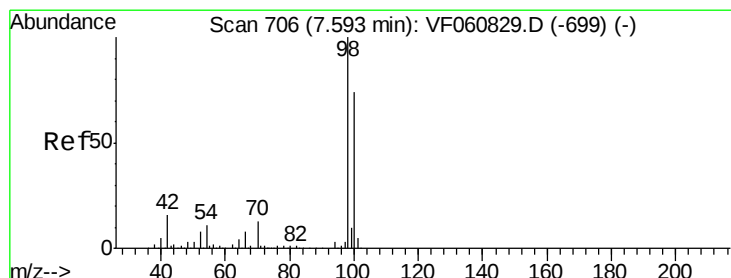
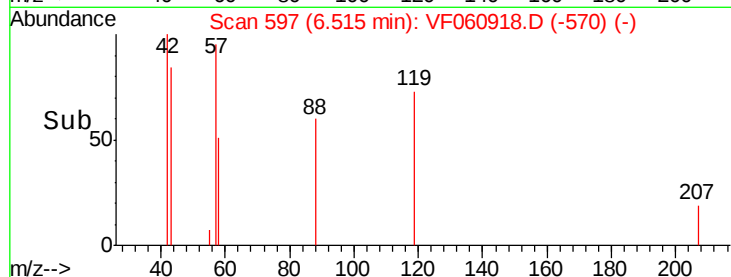
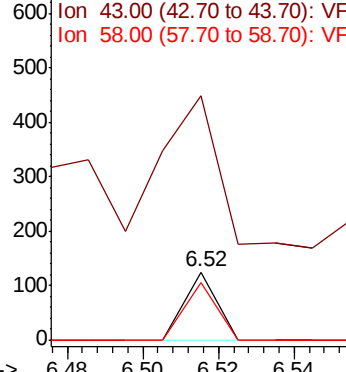
Ion	Ratio	Lower	Upper
88	100		
43	361.3	42.0	63.0#
58	84.7	61.8	92.8



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: 35.489 ug/l

RT: 7.55 min Scan# 702

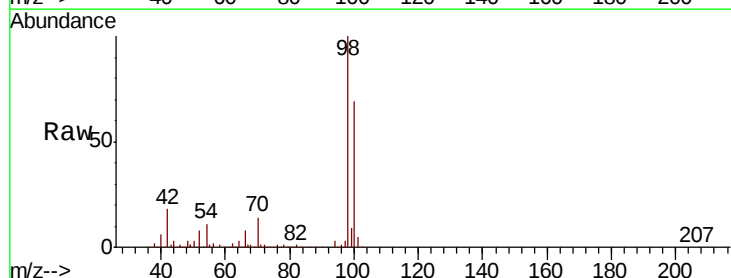
Delta R.T. -0.04 min

Lab File: VF060918.D

Acq: 6 Dec 2018 15:40

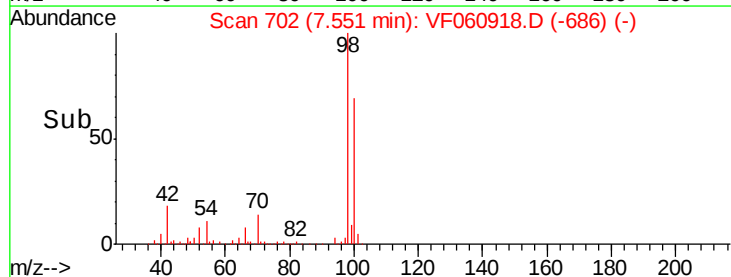
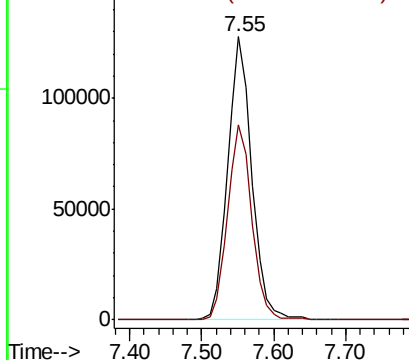
Tgt Ion: 98 Resp: 298089

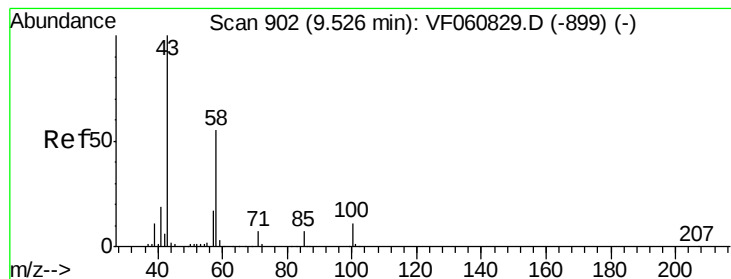
Ion	Ratio	Lower	Upper
98	100		
100	69.0	59.3	88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#59

2-Hexanone

Concen: 1.741 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.03 min

Lab File: VF060918.D

Acq: 6 Dec 2018 15:40

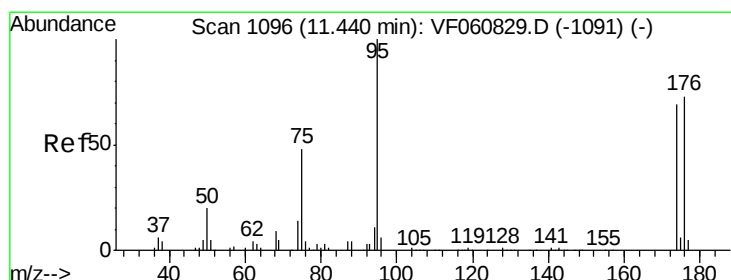
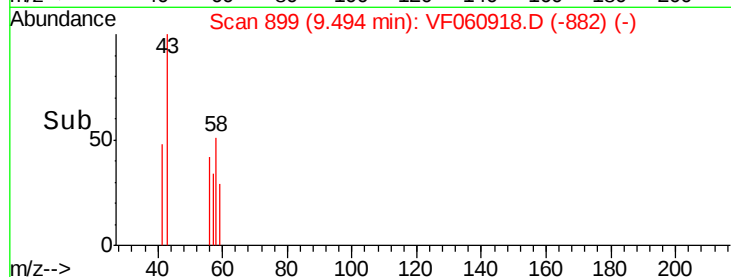
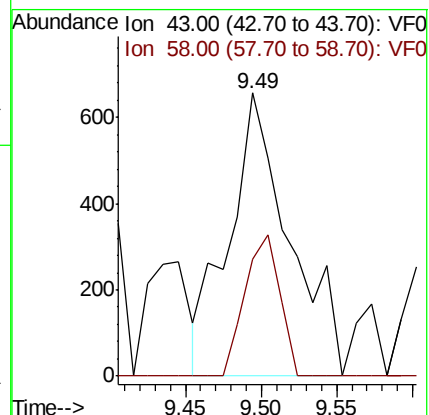
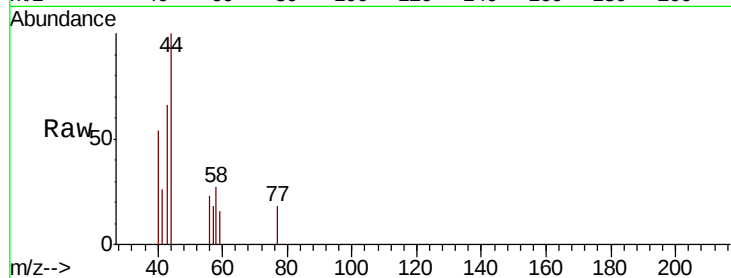
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1825

Ion Ratio Lower Upper

43 100

58 41.4 25.6 76.6



#62

4-Bromofluorobenzene

Concen: 38.767 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060918.D

Acq: 6 Dec 2018 15:40

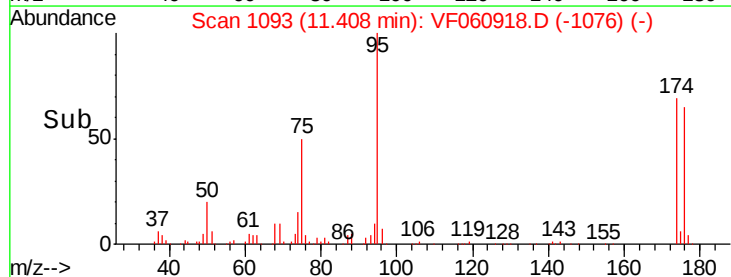
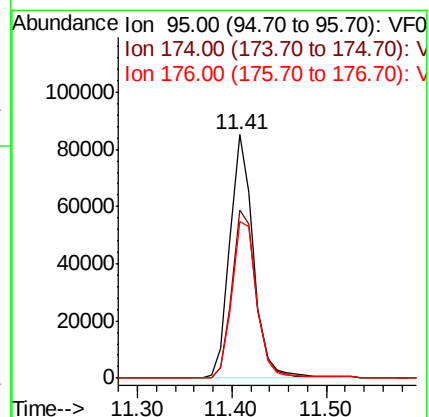
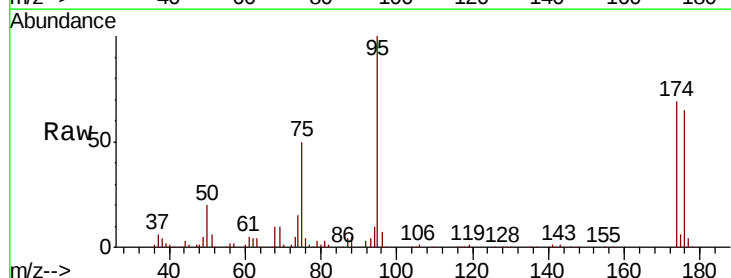
Tgt Ion: 95 Resp: 147991

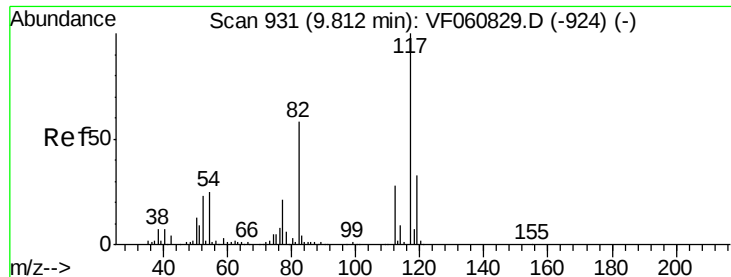
Ion Ratio Lower Upper

95 100

174 68.9 0.0 138.2

176 64.5 0.0 146.2

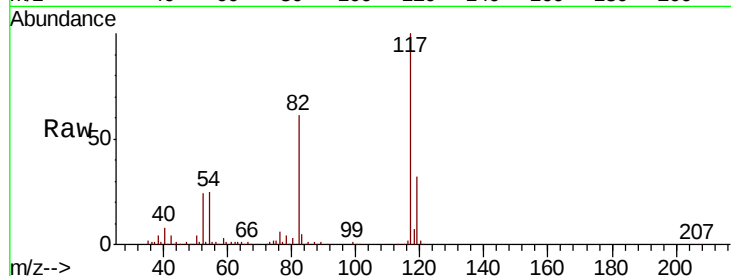




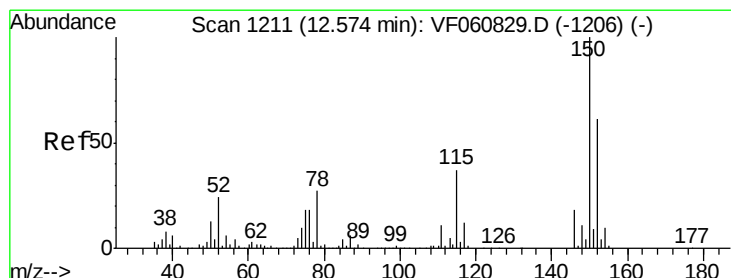
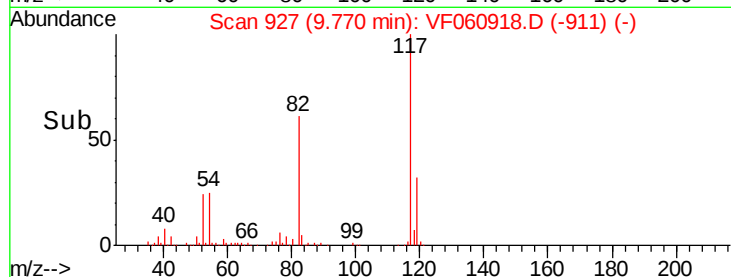
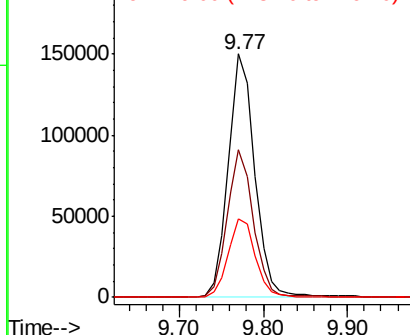
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060918.D
Acq: 6 Dec 2018 15:40

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 330442
Ion Ratio Lower Upper
117 100
82 60.8 46.6 69.8
119 32.1 26.4 39.6

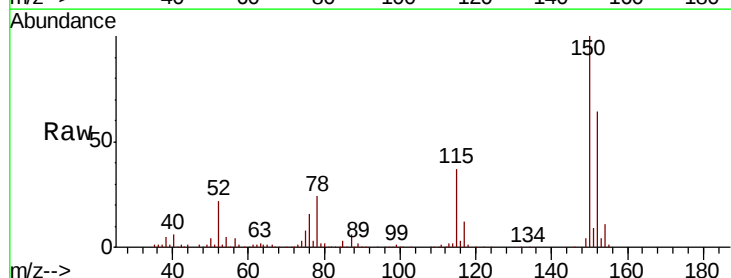


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

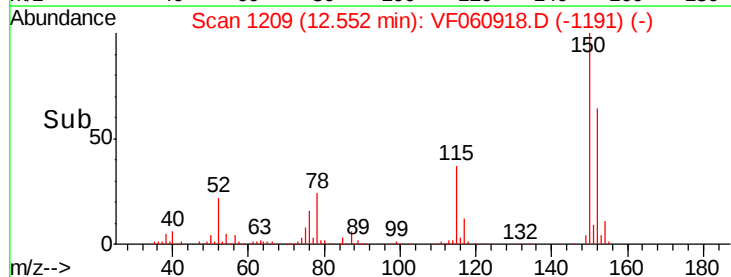
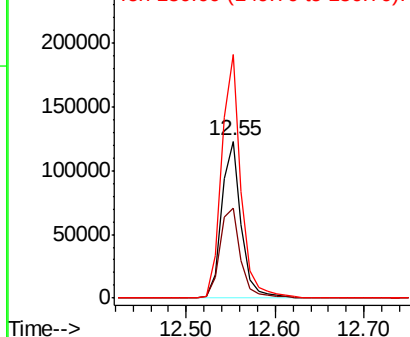


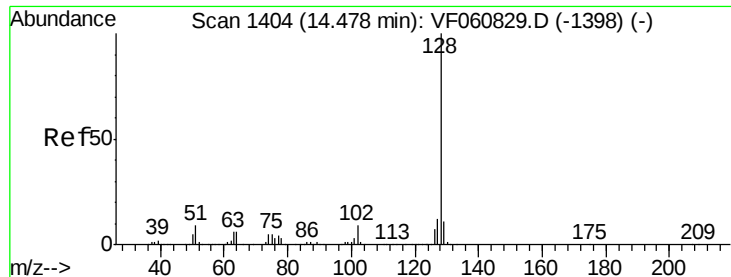
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF060918.D
Acq: 6 Dec 2018 15:40

Tgt Ion:152 Resp: 190774
Ion Ratio Lower Upper
152 100
115 57.6 30.1 90.5
150 155.3 0.0 327.6



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

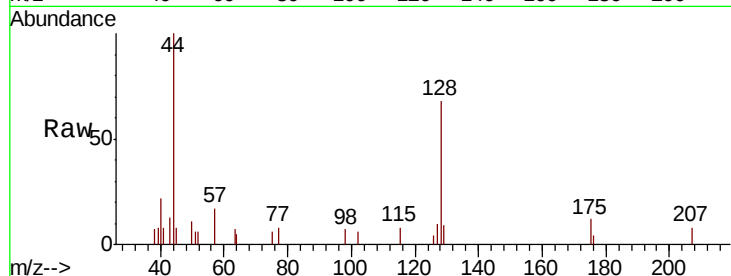




#95
Naphthalene
Concen: Below Cal
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF060918.D
Acq: 6 Dec 2018 15:40

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.3	9.9	14.9
129	12.8	9.1	13.7



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

