

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121018\
 Data File : VF060964.D
 Acq On : 10 Dec 2018 20:16
 Operator : VA/AP
 Sample : J6214-41
 Misc : 4.83q/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 11 04:59:01 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	128424	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	222328	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	172123	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	71135	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	73893	48.84	ug/l	-0.04
Spiked Amount			Recovery	=	97.68%	
35) Dibromofluoromethane	4.11	113	79110	44.85	ug/l	-0.04
Spiked Amount			Recovery	=	89.70%	
50) Toluene-d8	7.55	98	180742	34.79	ug/l	-0.04
Spiked Amount			Recovery	=	69.58%	
62) 4-Bromofluorobenzene	11.41	95	77030	32.62	ug/l	-0.03
Spiked Amount			Recovery	=	65.24%	

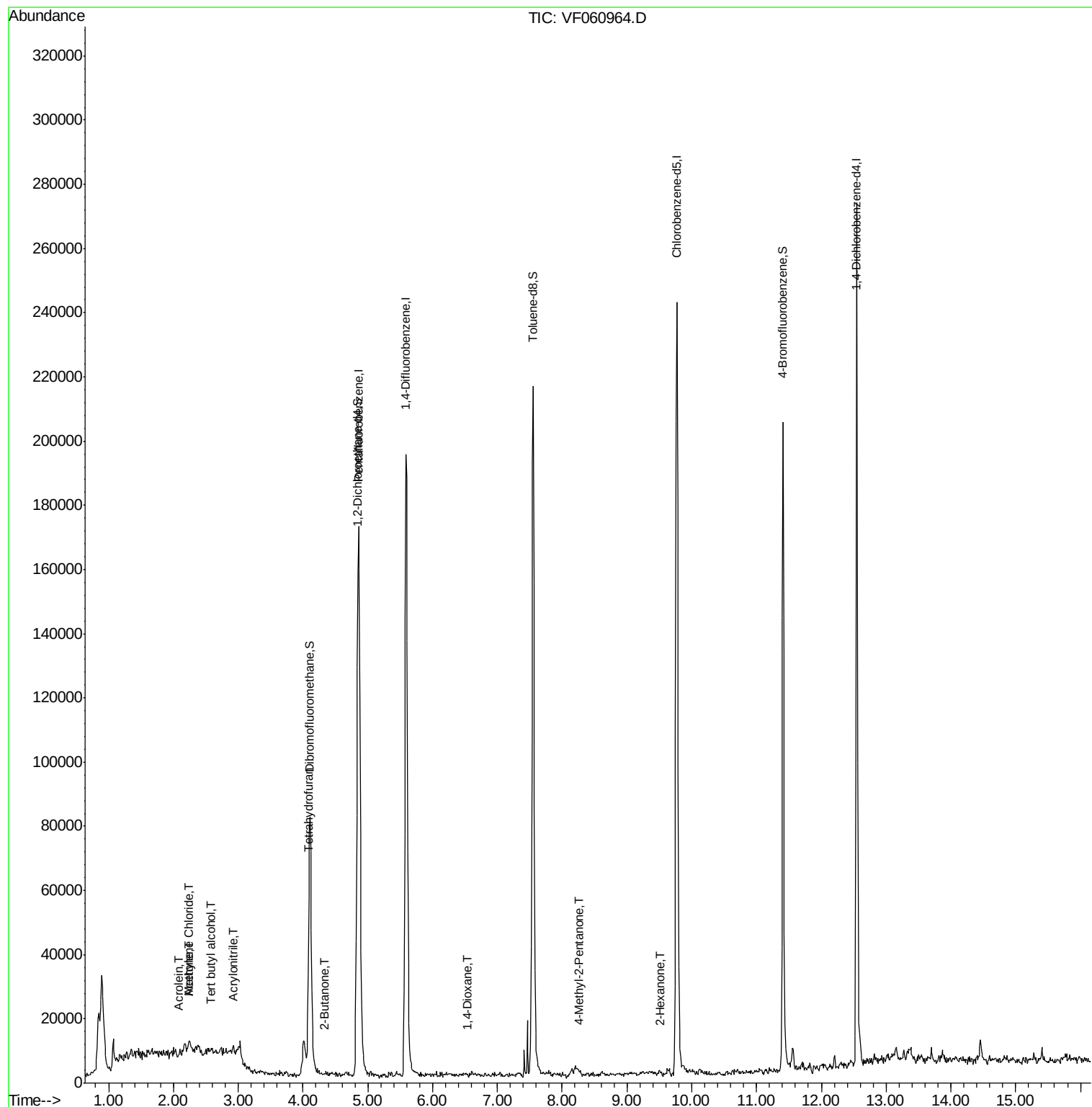
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	107	1.725	ug/l #	1
13) Acrolein	2.07	56	178	3.029	ug/l	84
15) Acrylonitrile	2.92	53	448	3.222	ug/l #	74
16) Acetone	2.24	43	1307	4.685	ug/l	93
18) Methyl Acetate	2.34	43	455	Below Cal	#	61
20) Methylene Chloride	2.24	84	2524	2.466	ug/l #	84
25) 2-Butanone	4.32	43	801	1.660	ug/l #	57
29) Tetrahydrofuran	4.08	42	380	1.858	ug/l #	50
41) Methacrylonitrile	4.73	41	776	Below Cal	#	23
43) Isopropyl Acetate	6.93	43	610	Below Cal	#	49
49) 1,4-Dioxane	6.54	88	123	18.528	ug/l #	6
51) 4-Methyl-2-Pentanone	8.25	43	1165	1.261	ug/l #	85
59) 2-Hexanone	9.49	43	1205	1.859	ug/l	84
95) Naphthalene	14.46	128	3924	Below Cal	#	95

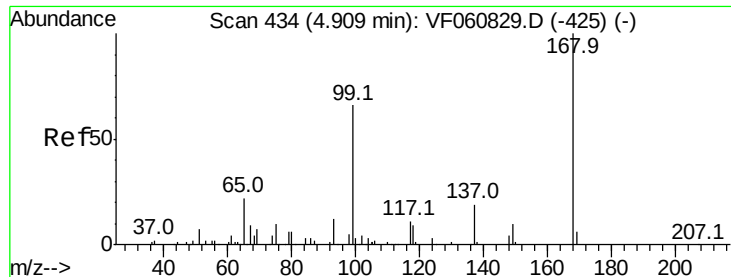
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF060964.D

Acq: 10 Dec 2018 20:16

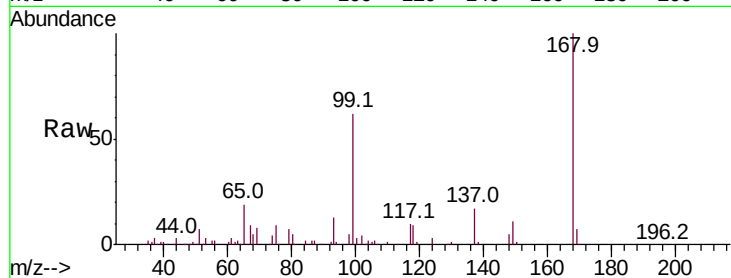
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 128424

Ion Ratio Lower Upper

168 100

99 62.3 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

50000

40000

30000

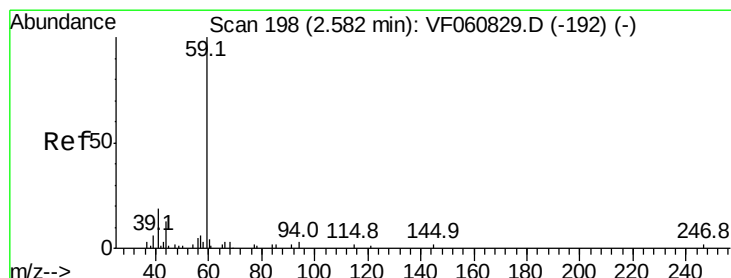
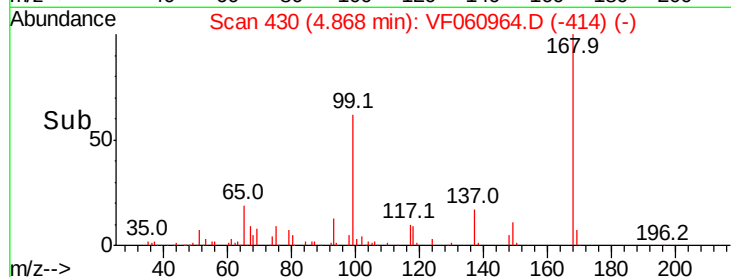
20000

10000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.725 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF060964.D

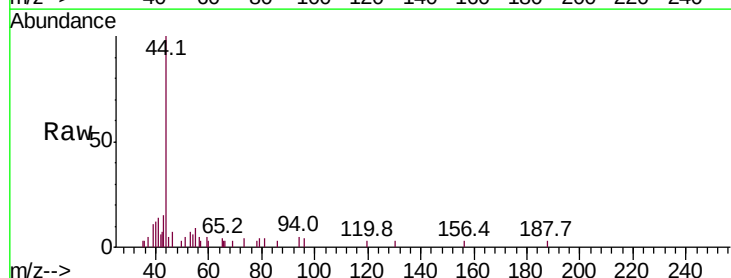
Acq: 10 Dec 2018 20:16

Tgt Ion: 59 Resp: 107

Ion Ratio Lower Upper

59 100

57 63.5 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.57

300

250

200

150

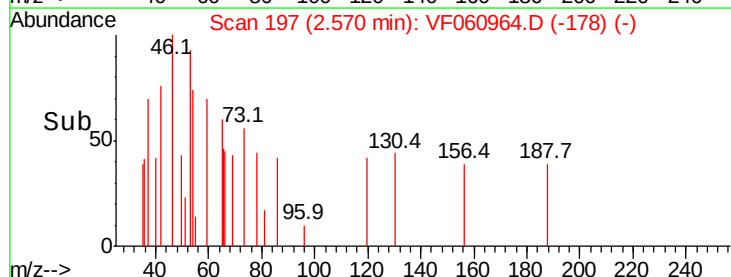
100

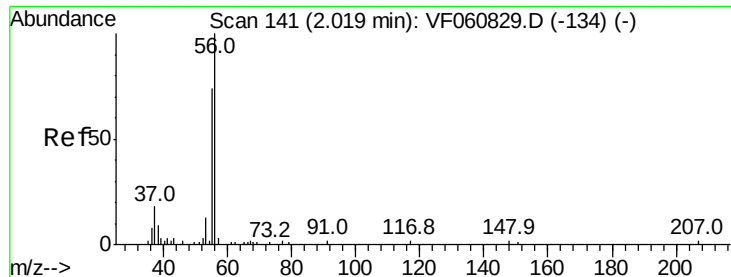
50

0

Time-->

2.54 2.56 2.58 2.60





#13

Acrolein

Concen: 3.029 ug/l

RT: 2.07 min Scan# 146

Delta R.T. 0.05 min

Lab File: VF060964.D

Acq: 10 Dec 2018 20:16

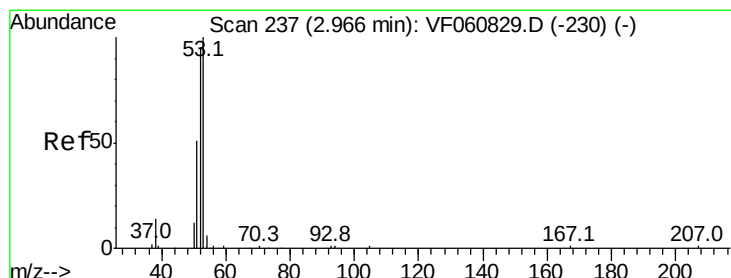
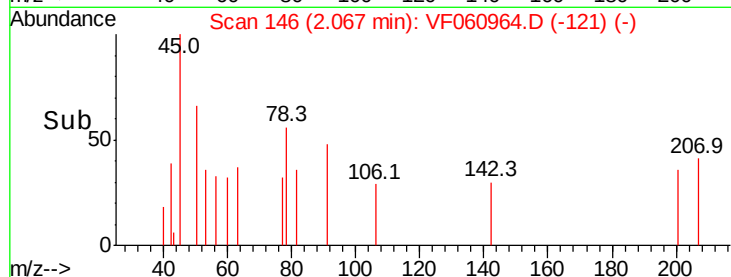
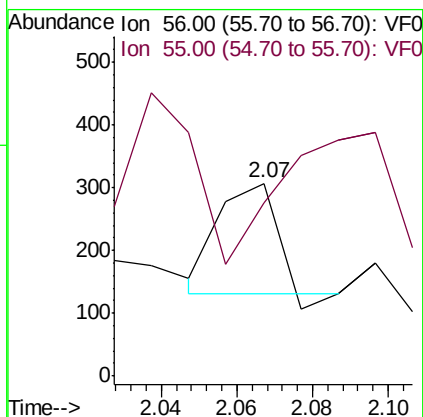
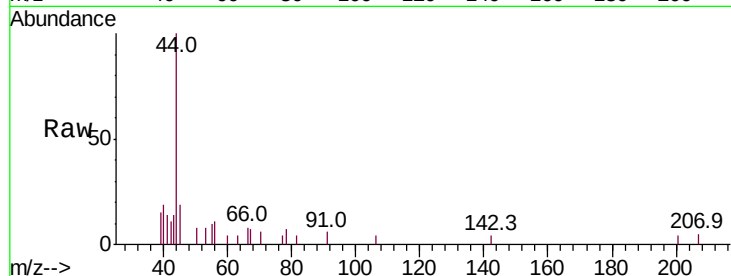
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 178

Ion Ratio Lower Upper

56 100

55 89.9 61.2 91.8



#15

Acrylonitrile

Concen: 3.222 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.05 min

Lab File: VF060964.D

Acq: 10 Dec 2018 20:16

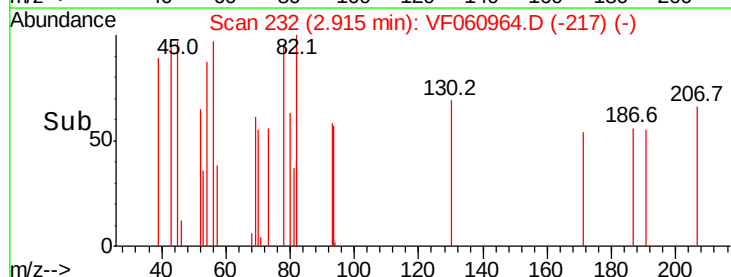
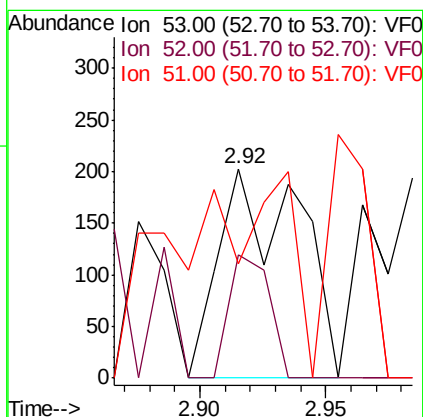
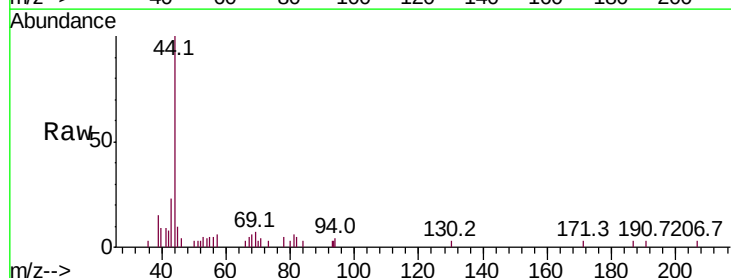
Tgt Ion: 53 Resp: 448

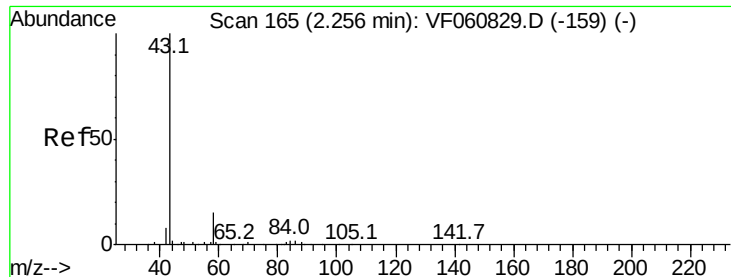
Ion Ratio Lower Upper

53 100

52 59.1 76.5 114.7#

51 54.7 40.7 61.1

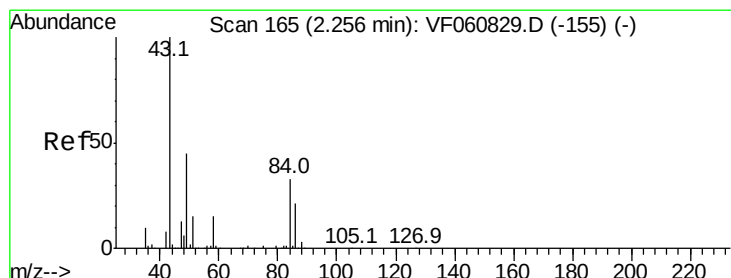
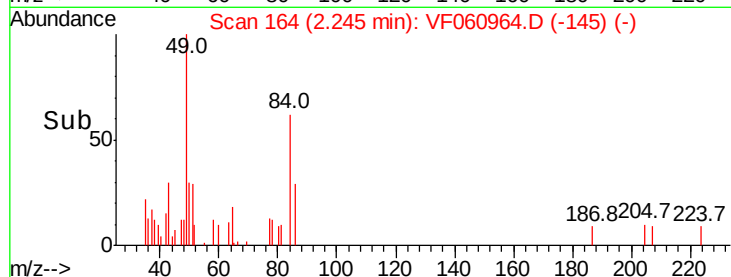
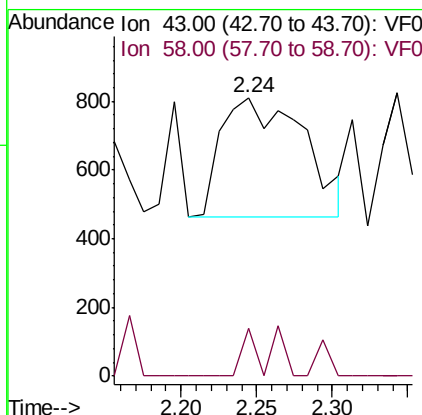
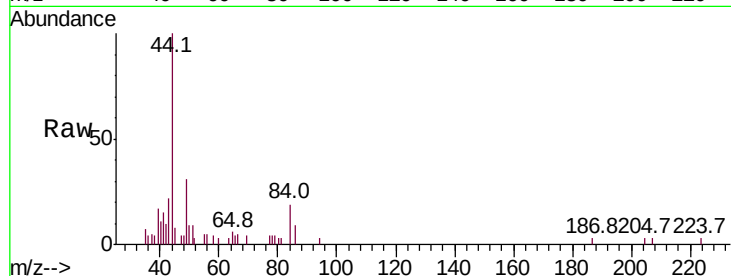




#16
Acetone
Concen: 4.685 ug/l
RT: 2.24 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060964.D
Acq: 10 Dec 2018 20:16

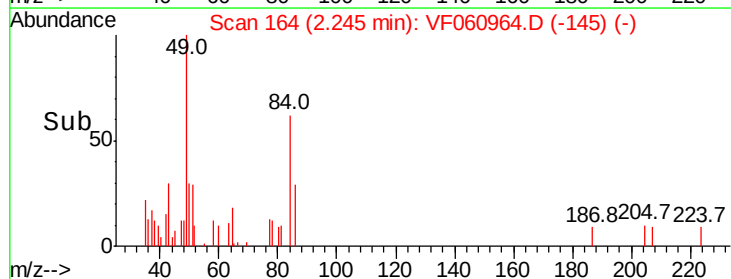
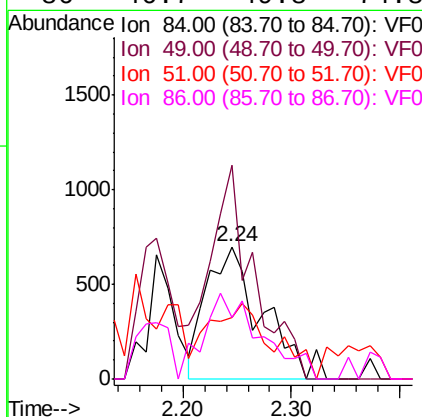
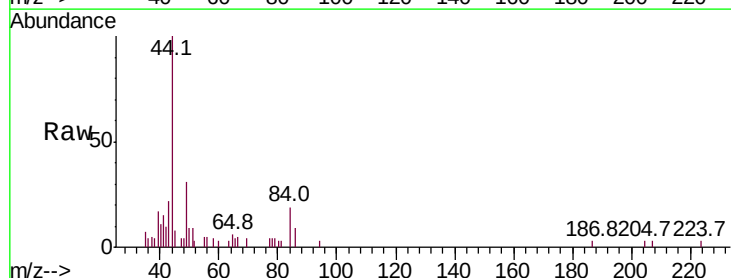
Instrument :
MSVOA_F
ClientSampleId :

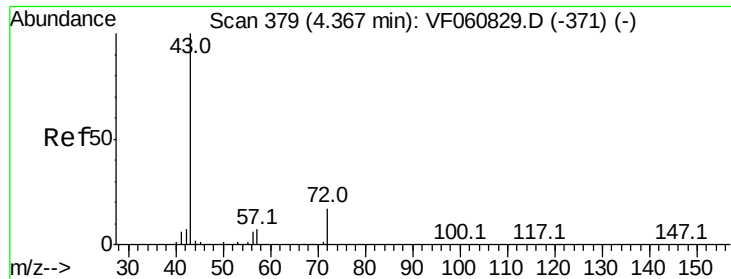
Tot Ion: 43 Resp: 1307
Ion Ratio Lower Upper
43 100
58 17.0 11.4 17.2



#20
Methylene Chloride
Concen: 2.466 ug/l
RT: 2.24 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060964.D
Acq: 10 Dec 2018 20:16

Tgt Ion: 84 Resp: 2524
Ion Ratio Lower Upper
84 100
49 161.3 111.3 166.9
51 46.3 38.0 57.0
86 46.7 49.8 74.8#

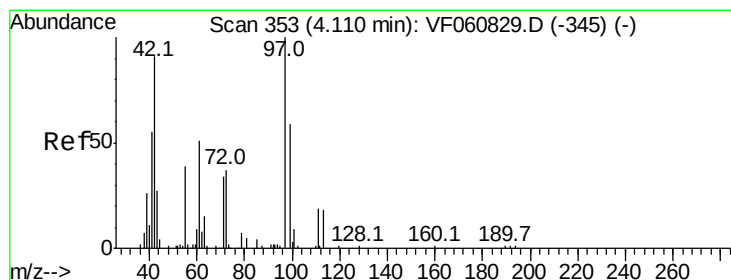
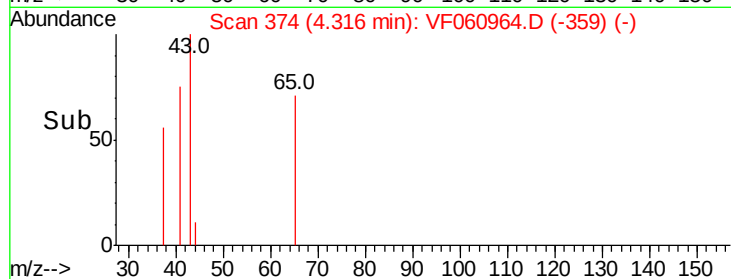
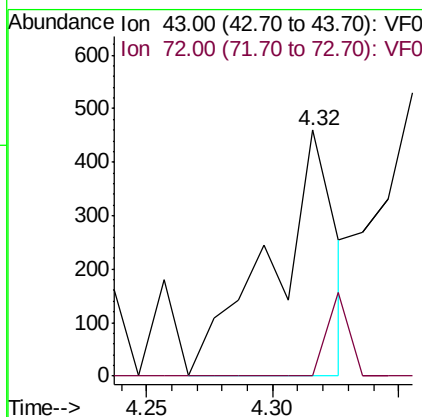
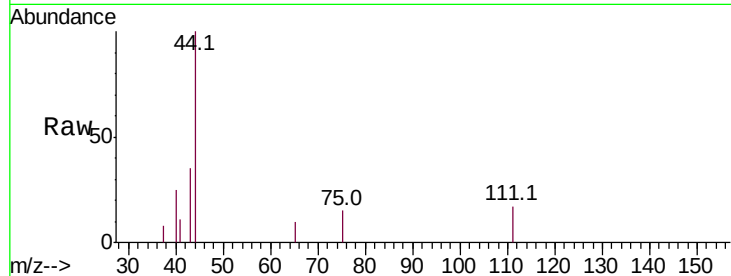




#25
2-Butanone
Concen: 1.660 ug/l
RT: 4.32 min Scan# 374
Delta R.T. -0.05 min
Lab File: VF060964.D
Acq: 10 Dec 2018 20:16

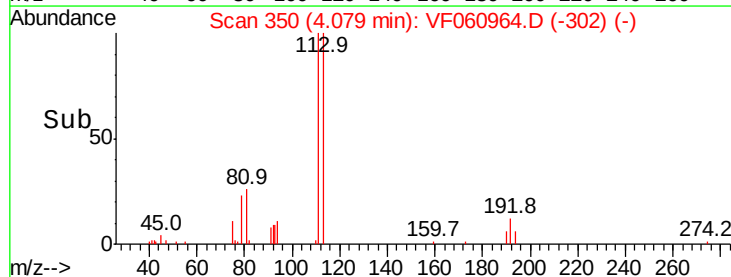
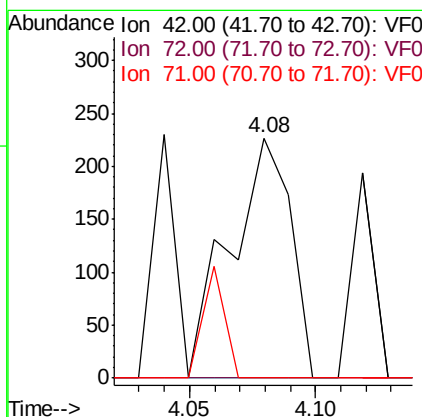
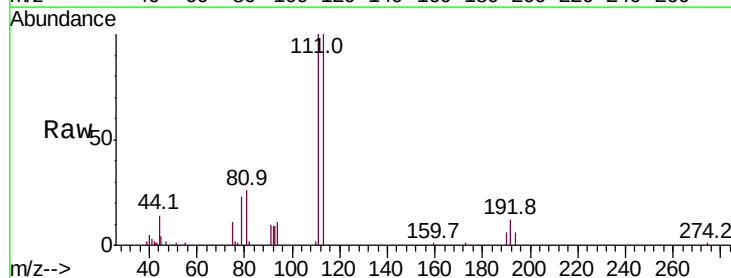
Instrument :
MSVOA_F
ClientSampled :

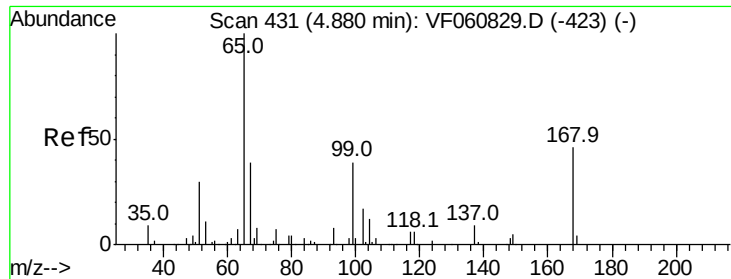
Tot Ion: 43 Resp: 801
Ion Ratio Lower Upper
43 100
72 0.0 15.4 23.2#



#29
Tetrahydrofuran
Concen: 1.858 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.03 min
Lab File: VF060964.D
Acq: 10 Dec 2018 20:16

Tgt Ion: 42 Resp: 380
Ion Ratio Lower Upper
42 100
72 0.0 31.9 47.9#
71 16.3 28.7 43.1#





#33

1,2-Dichloroethane-d4

Concen: 48.843 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

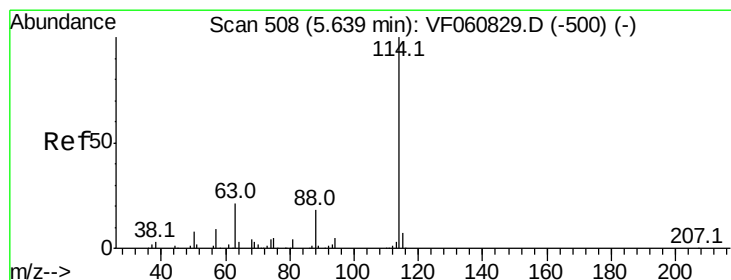
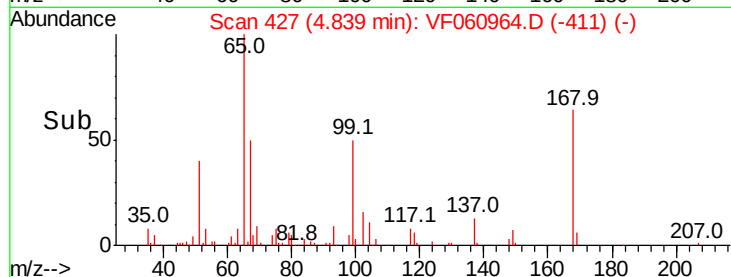
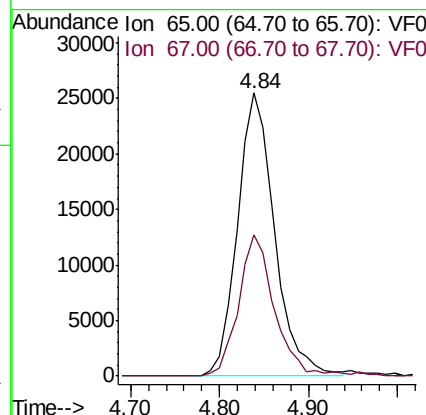
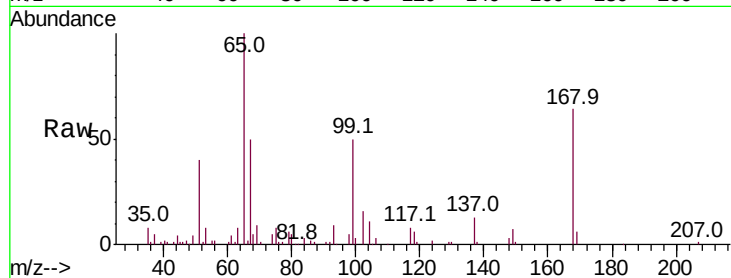
Lab File: VF060964.D

Acq: 10 Dec 2018 20:16

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 73893

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	96.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

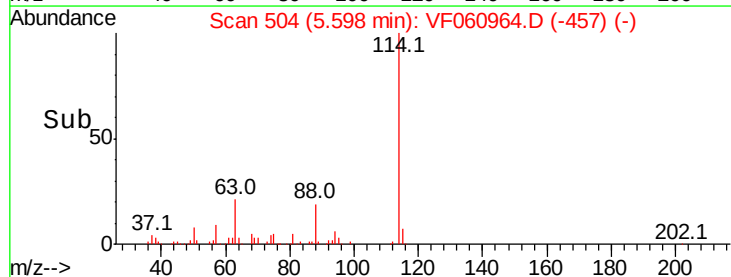
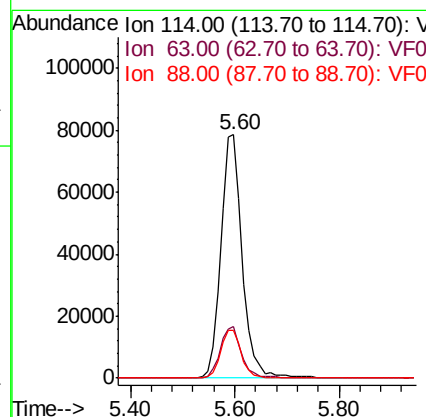
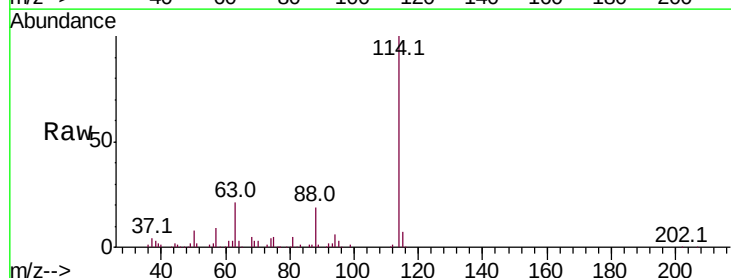
Delta R.T. -0.04 min

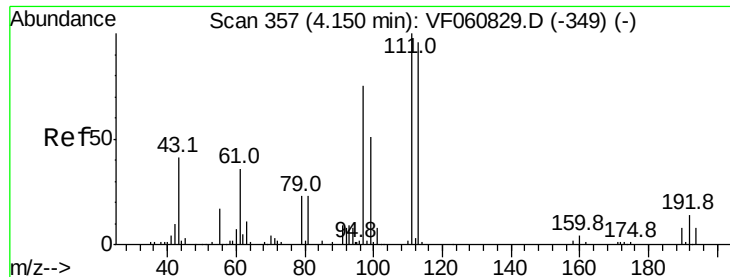
Lab File: VF060964.D

Acq: 10 Dec 2018 20:16

Tgt Ion: 114 Resp: 222328

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	41.6
88	19.4	0.0	36.6





#35

Dibromofluoromethane

Concen: 44.852 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060964.D

Acq: 10 Dec 2018 20:16

Instrument :
MSVOA_F
ClientSampleId :

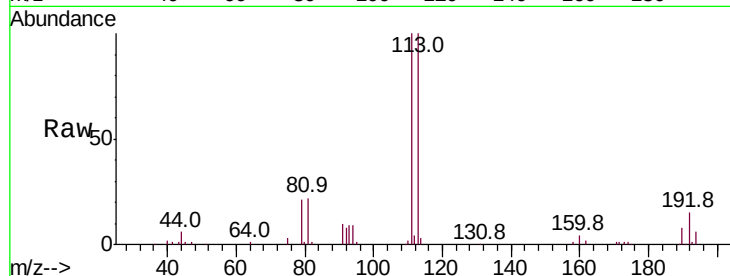
Tot Ion:113 Resp: 79110

Ion	Ratio	Lower	Upper
113	100		
111	100.1	83.0	124.6
192	15.1	12.3	18.5

113 100

111 100.1 83.0 124.6

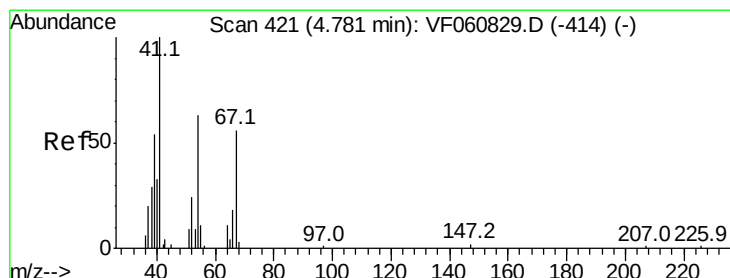
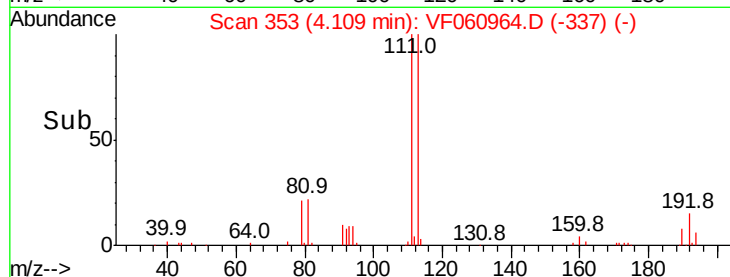
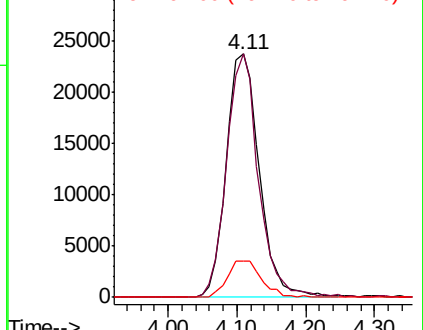
192 15.1 12.3 18.5



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.73 min Scan# 416

Delta R.T. -0.05 min

Lab File: VF060964.D

Acq: 10 Dec 2018 20:16

Tgt Ion: 41 Resp: 776

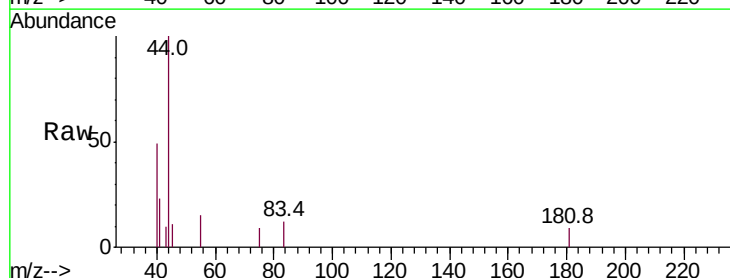
Ion	Ratio	Lower	Upper
41	100		
39	0.0	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#

41 100

39 0.0 53.0 79.6#

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#

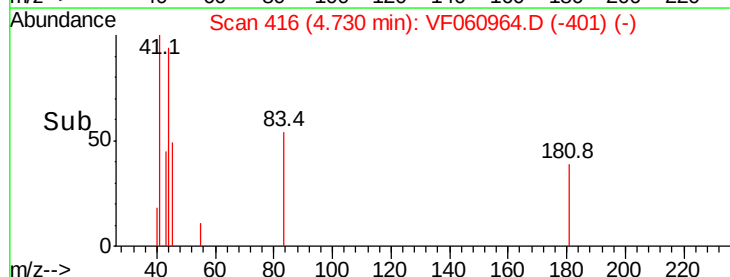
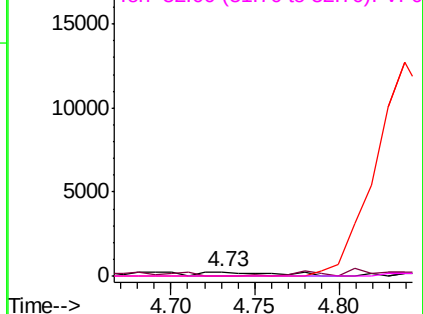


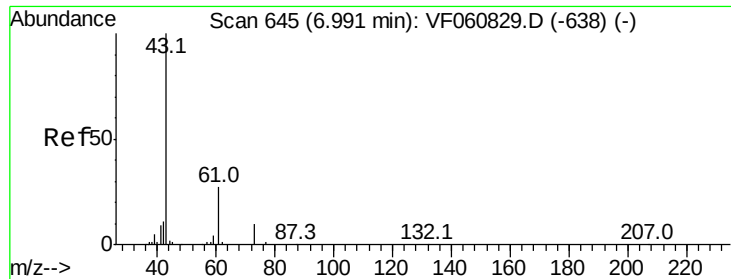
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



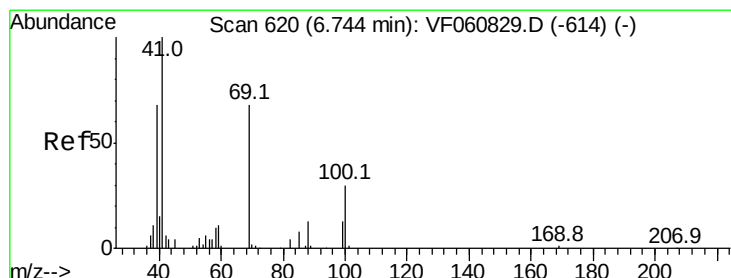
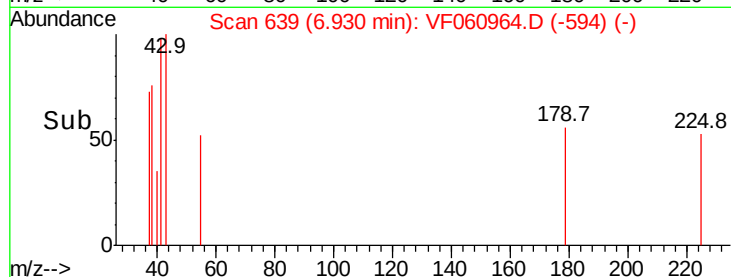
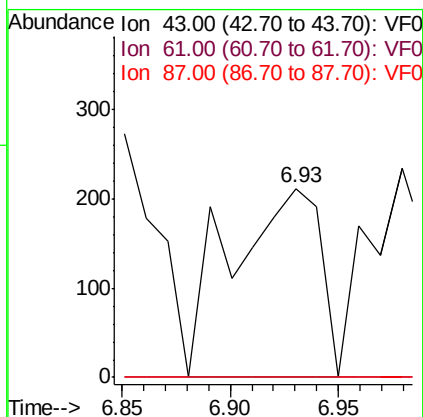
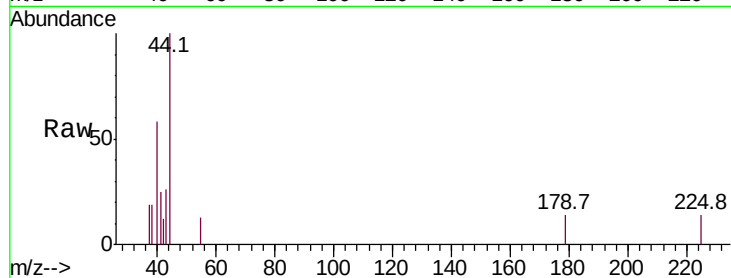


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.93 min Scan# 639
 Delta R.T. -0.06 min
 Lab File: VF060964.D
 Acq: 10 Dec 2018 20:16

Instrument :
 MSVOA_F
 ClientSampleId :

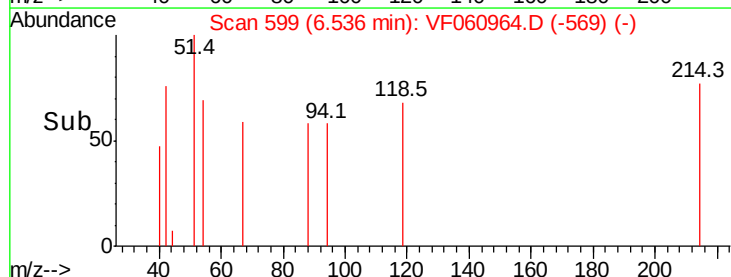
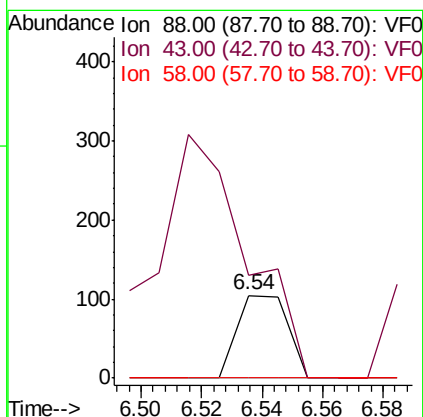
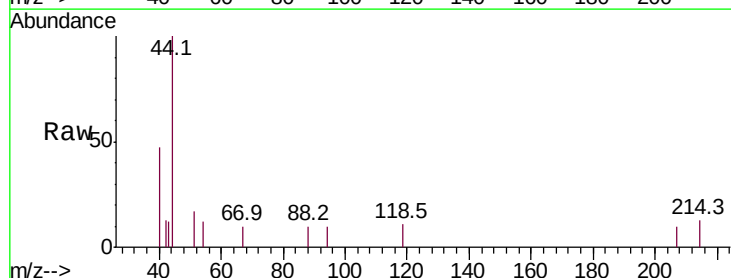
Tot Ion: 43 Resp: 610
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#

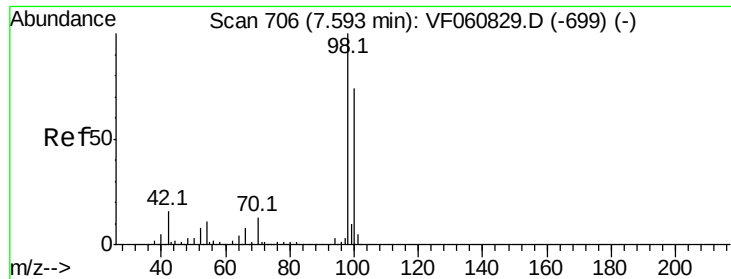


#49

1,4-Dioxane
 Concen: 18.528 ug/l
 RT: 6.54 min Scan# 599
 Delta R.T. -0.21 min
 Lab File: VF060964.D
 Acq: 10 Dec 2018 20:16

Tgt Ion: 88 Resp: 123
 Ion Ratio Lower Upper
 88 100
 43 123.8 42.0 63.0#
 58 0.0 61.8 92.8#

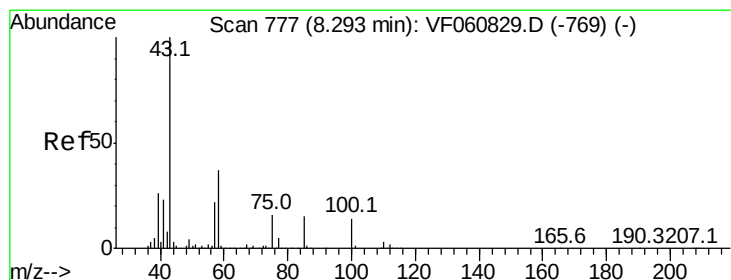
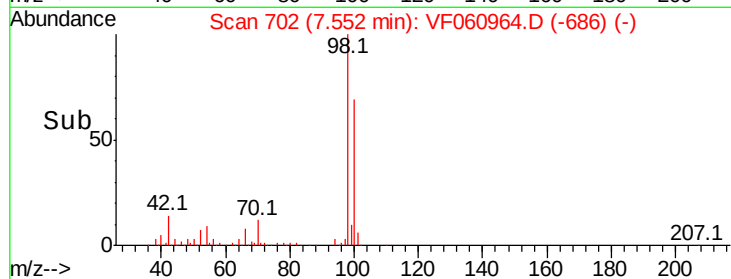
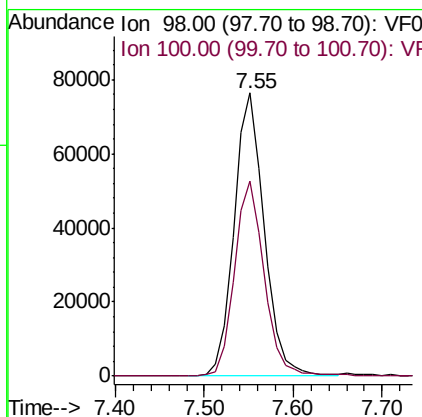
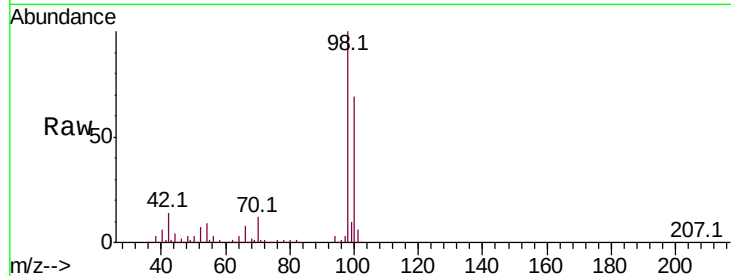




#50
Toluene-d8
Concen: 34.788 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.04 min
Lab File: VF060964.D
Acq: 10 Dec 2018 20:16

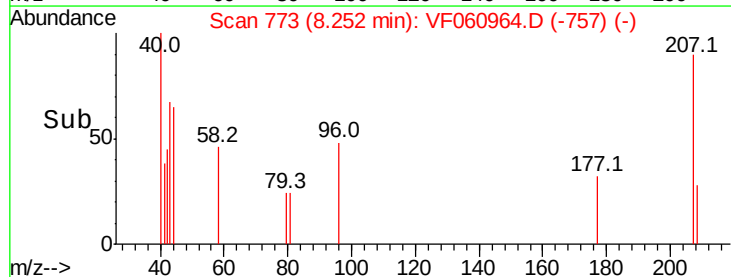
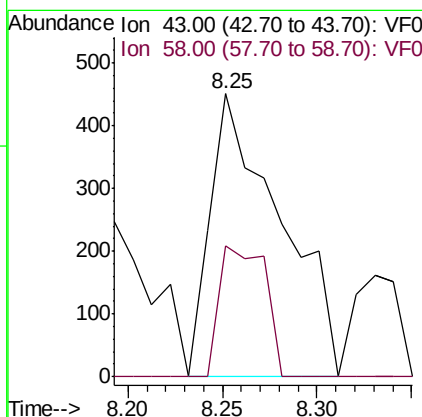
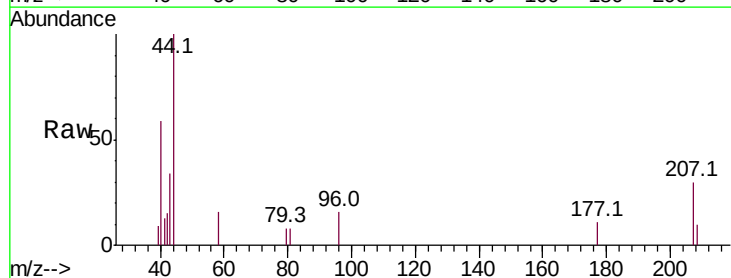
Instrument :
MSVOA_F
ClientSampleId :

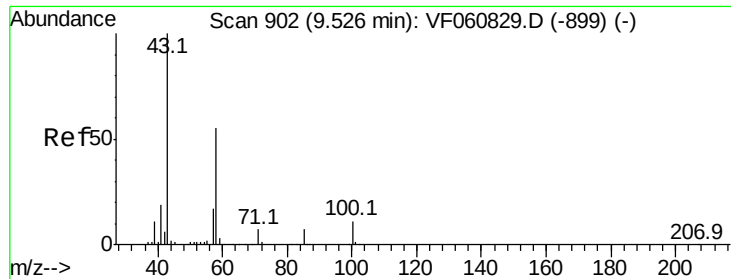
Tot Ion: 98 Resp: 180742
Ion Ratio Lower Upper
98 100
100 68.9 59.3 88.9



#51
4-Methyl-2-Pentanone
Concen: 1.261 ug/l
RT: 8.25 min Scan# 773
Delta R.T. -0.04 min
Lab File: VF060964.D
Acq: 10 Dec 2018 20:16

Tgt Ion: 43 Resp: 1165
Ion Ratio Lower Upper
43 100
58 46.1 29.7 44.5#

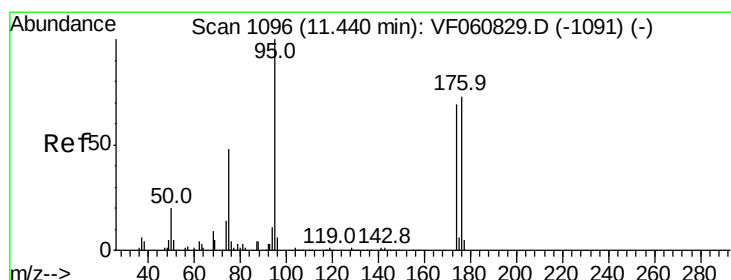
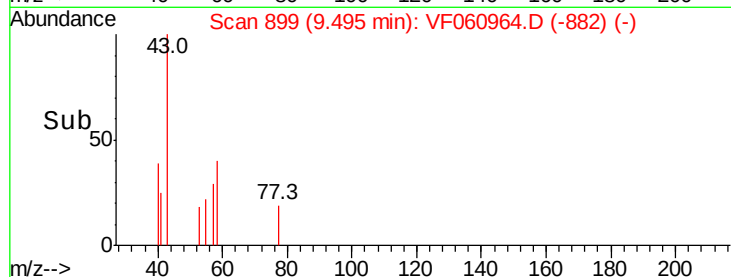
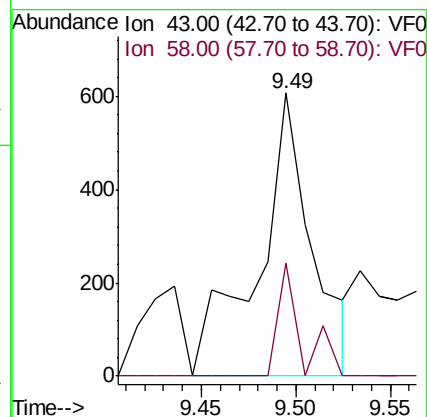
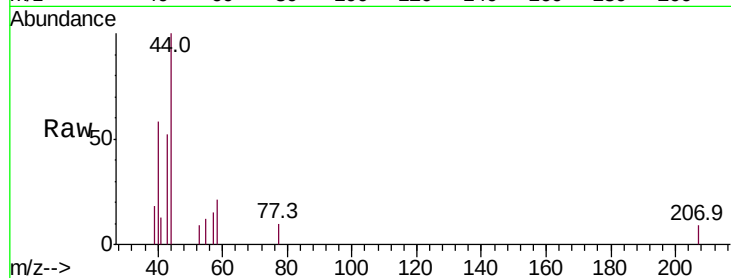




#59
2-Hexanone
Concen: 1.859 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF060964.D
Acq: 10 Dec 2018 20:16

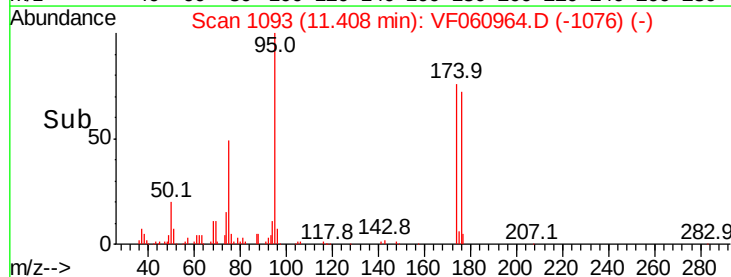
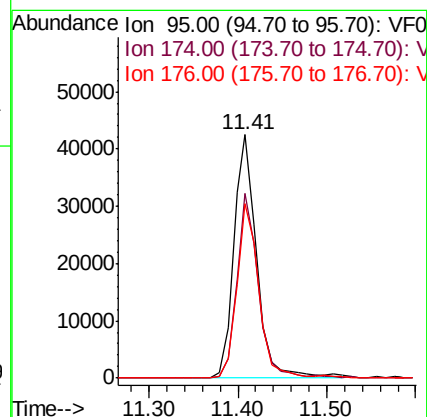
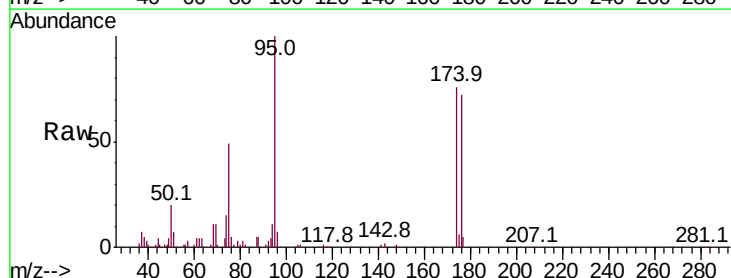
Instrument :
MSVOA_F
ClientSampleId :

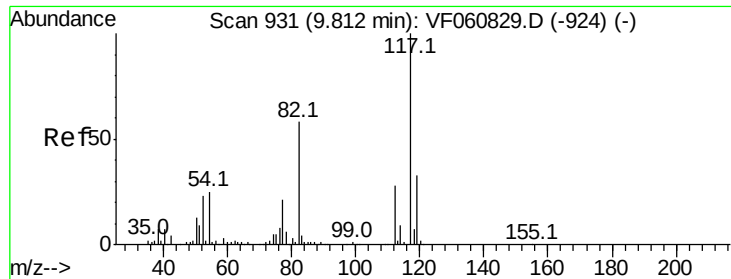
Tot Ion: 43 Resp: 1205
Ion Ratio Lower Upper
43 100
58 40.2 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 32.622 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF060964.D
Acq: 10 Dec 2018 20:16

Tgt Ion: 95 Resp: 77030
Ion Ratio Lower Upper
95 100
174 76.0 0.0 138.2
176 71.9 0.0 146.2

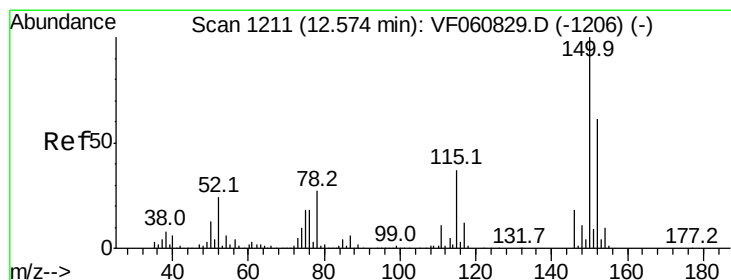
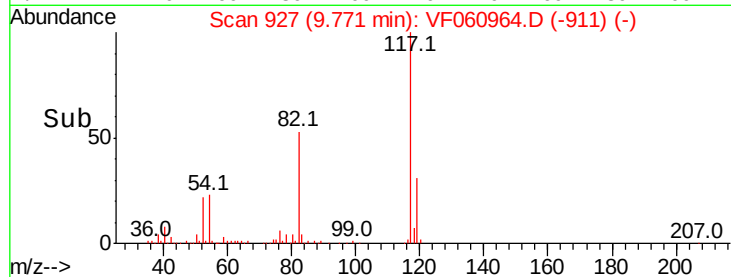
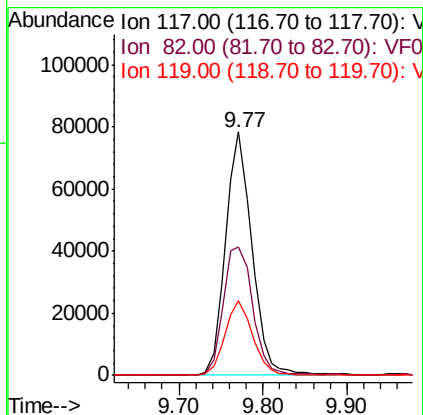
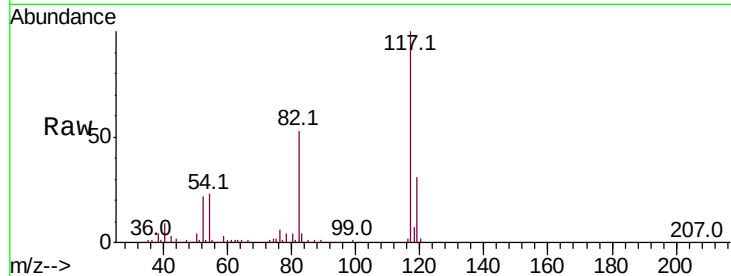




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060964.D
Acq: 10 Dec 2018 20:16

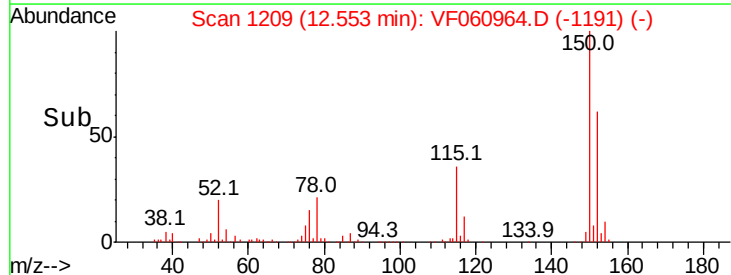
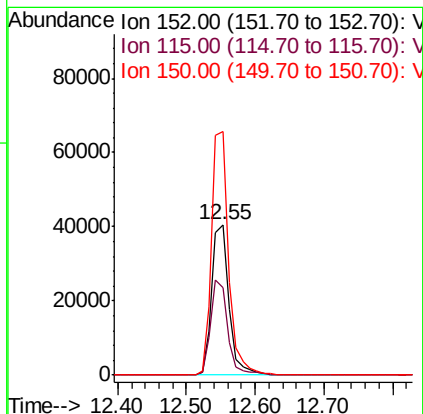
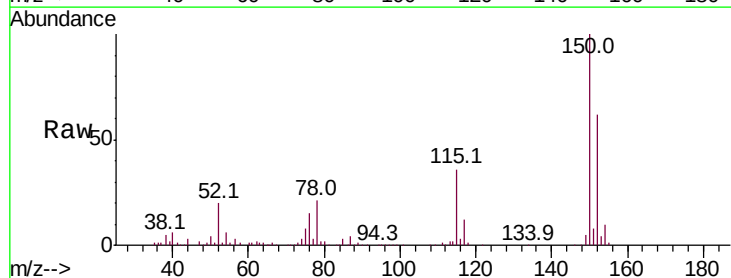
Instrument :
MSVOA_F
ClientSampled :

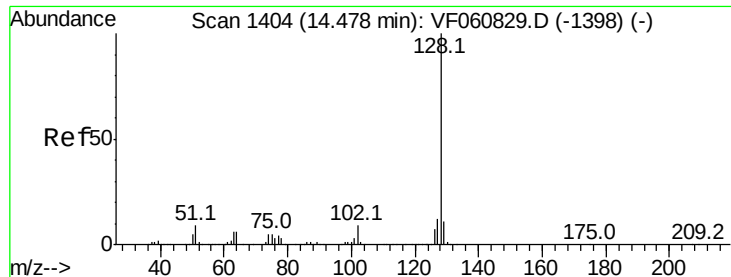
Tot Ion:117 Resp: 172123
Ion Ratio Lower Upper
117 100
82 52.9 46.6 69.8
119 30.5 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF060964.D
Acq: 10 Dec 2018 20:16

Tgt Ion:152 Resp: 71135
Ion Ratio Lower Upper
152 100
115 57.9 30.1 90.5
150 162.1 0.0 327.6

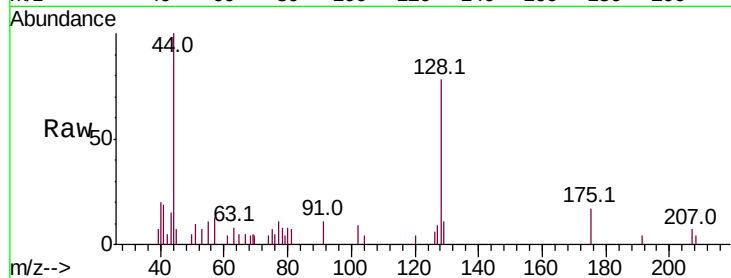




#95
Naphthalene
Concen: Below Cal
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF060964.D
Acq: 10 Dec 2018 20:16

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 3924
Ion Ratio Lower Upper
128 100
127 11.7 9.9 14.9
129 14.3 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

