

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121218\
 Data File : VF061012.D
 Acq On : 12 Dec 2018 23:03
 Operator : VA/AP
 Sample : J6322-08
 Misc : 8.16g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SUP-5A-G-3-120718

Quant Time: Dec 13 01:28:23 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	4.86	168	223648	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	380844	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	349853	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	181969	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	110828	42.07	ug/l	-0.04
Spiked Amount			Recovery	=	84.14%	
35) Dibromofluoromethane	4.11	113	129606	42.90	ug/l	-0.04
Spiked Amount			Recovery	=	85.80%	
50) Toluene-d8	7.54	98	323148	36.31	ug/l	-0.05
Spiked Amount			Recovery	=	72.62%	
62) 4-Bromofluorobenzene	11.41	95	153624	37.98	ug/l	-0.03
Spiked Amount			Recovery	=	75.96%	

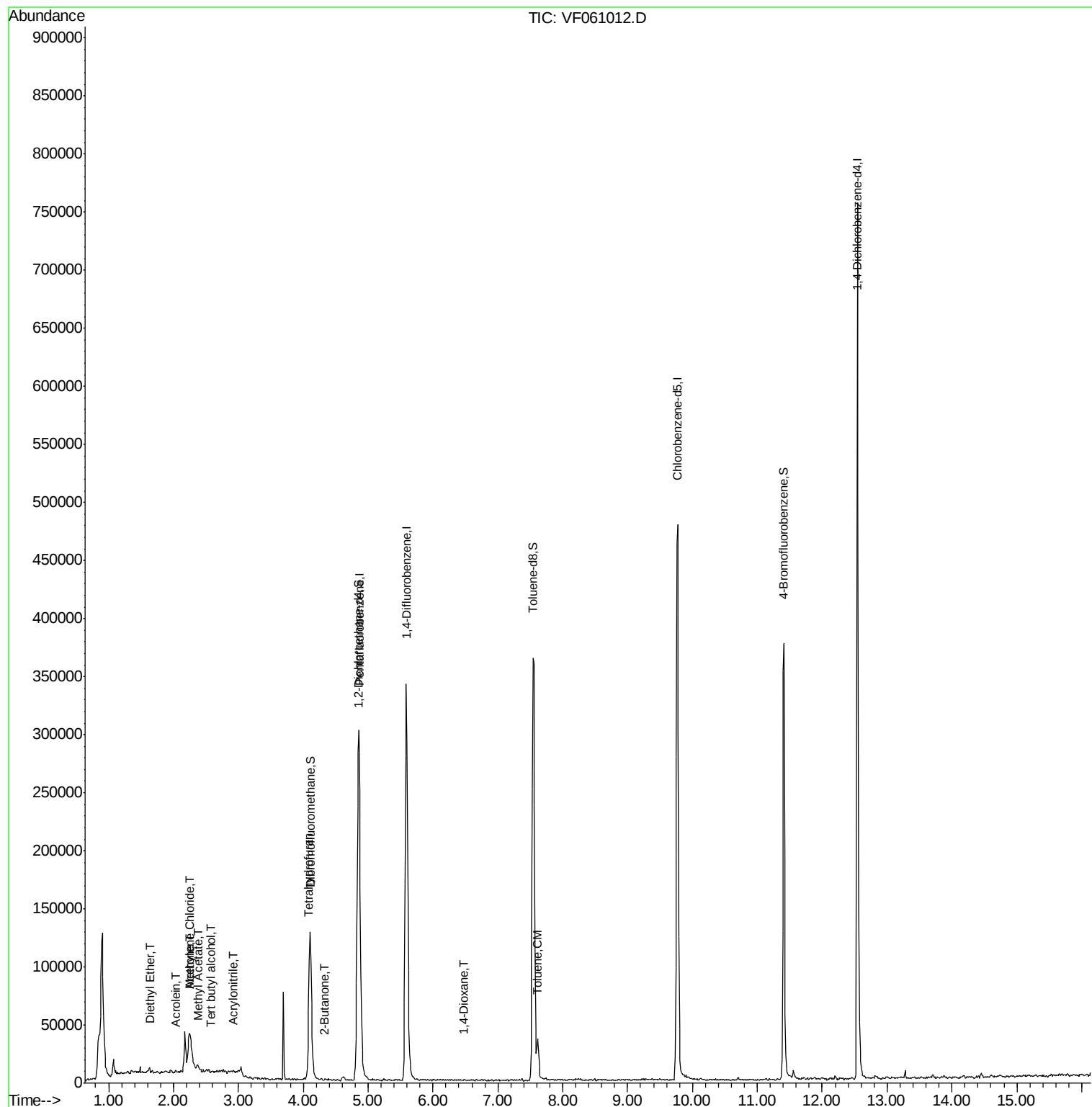
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.63	74	1268	2.025	ug/l	94
11) Tert butyl alcohol	2.58	59	346	3.204	ug/l #	62
13) Acrolein	2.05	56	657	6.421	ug/l	91
15) Acrylonitrile	2.93	53	575	2.375	ug/l #	11
16) Acetone	2.24	43	9009	18.543	ug/l #	90
18) Methyl Acetate	2.38	43	4187	3.605	ug/l #	61
20) Methylene Chloride	2.25	84	22103	12.401	ug/l	93
25) 2-Butanone	4.32	43	1107	1.317	ug/l #	74
29) Tetrahydrofuran	4.08	42	829	2.327	ug/l #	64
41) Methacrylonitrile	4.78	41	254	Below Cal	#	45
43) Isopropyl Acetate	6.95	43	162	Below Cal	#	49
49) 1,4-Dioxane	6.48	88	80	7.035	ug/l #	1
52) Toluene	7.62	92	17045	2.600	ug/l	93
95) Naphthalene	14.46	128	1420	Below Cal	#	69

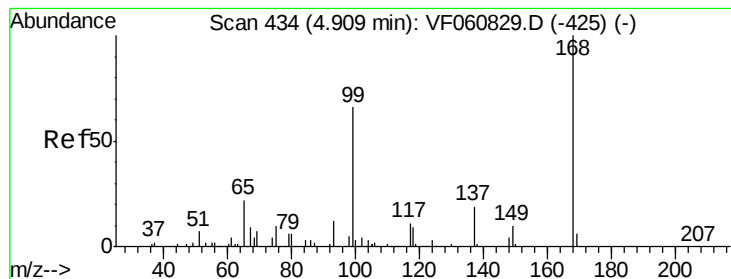
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121218\
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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: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF061012.D

Acq: 12 Dec 2018 23:03

Instrument :

MSVOA_F

ClientSampleId :

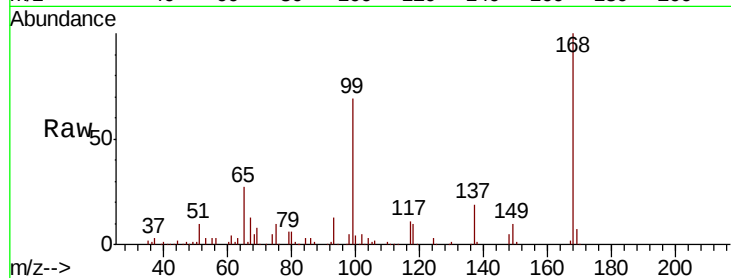
SUP-5A-G-3-120718

Tot Ion:168 Resp: 223648

Ion Ratio Lower Upper

168 100

99 69.3 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

60000

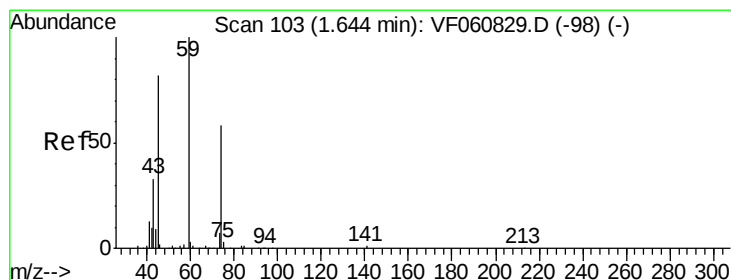
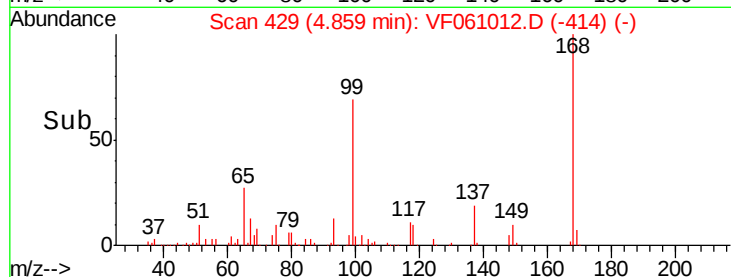
40000

20000

0

Time-->

4.70 4.80 4.90 5.00



#8

Diethyl Ether

Concen: 2.025 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF061012.D

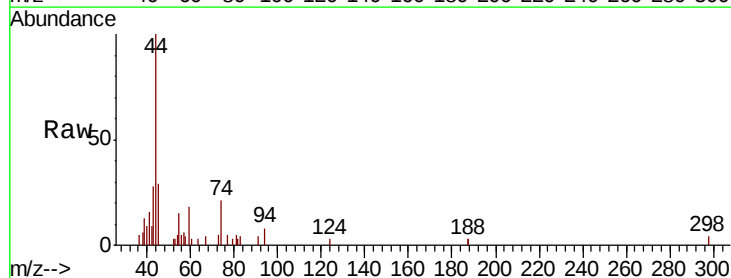
Acq: 12 Dec 2018 23:03

Tgt Ion: 74 Resp: 1268

Ion Ratio Lower Upper

74 100

45 135.1 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.63

1200

1000

800

600

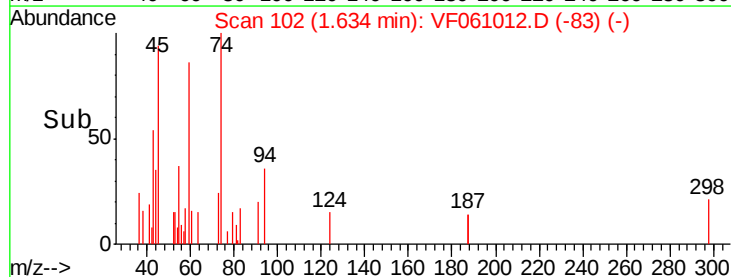
400

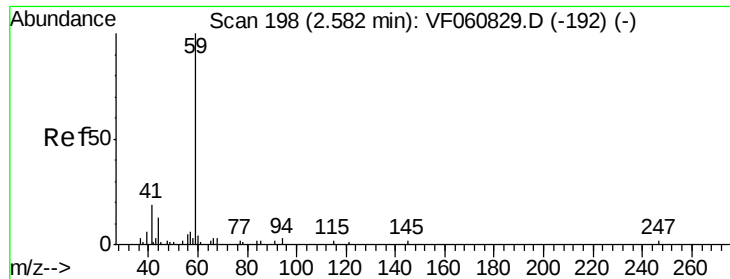
200

0

Time-->

1.60 1.65 1.70



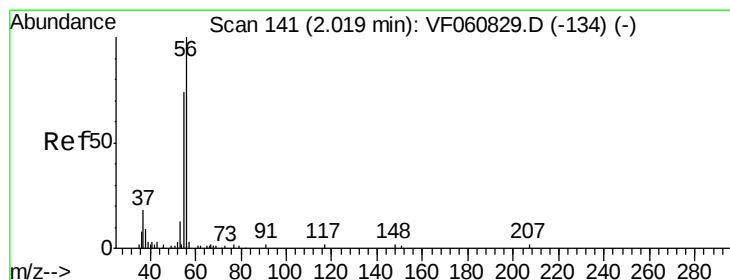
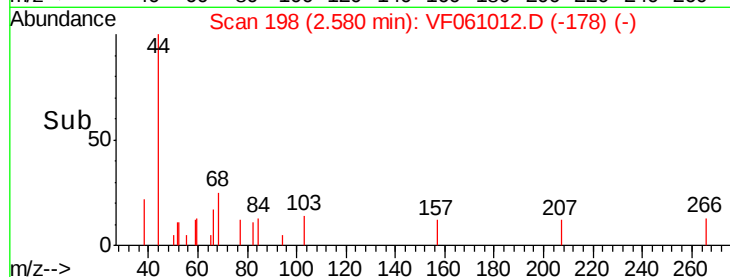
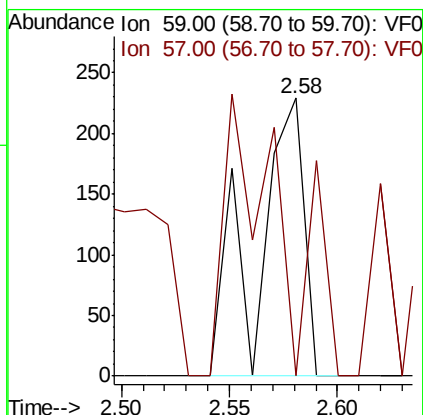
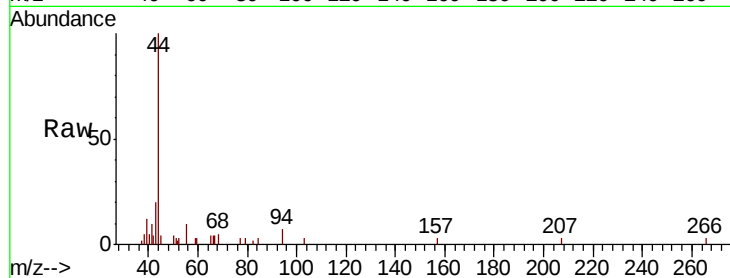


#11

Tert butyl alcohol
 Concen: 3.204 ug/l
 RT: 2.58 min Scan# 198
 Delta R.T. -0.00 min
 Lab File: VF061012.D
 Acq: 12 Dec 2018 23:03

Instrument :
 MSVOA_F
 ClientSampleId :
 SUP-5A-G-3-120718

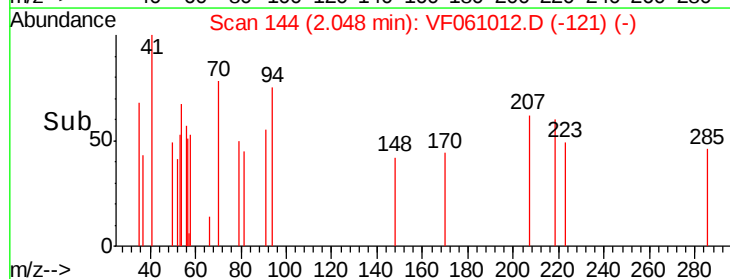
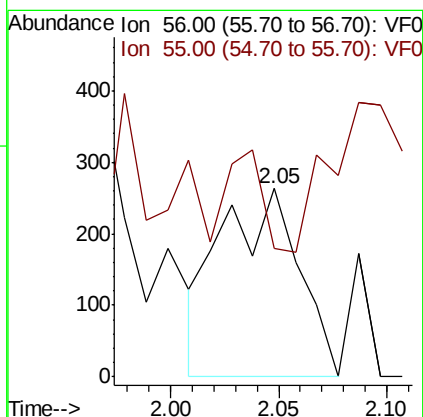
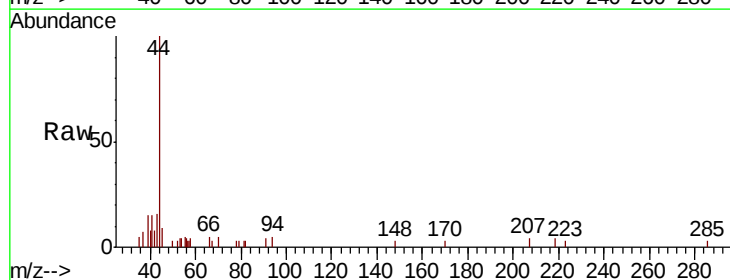
Tot Ion: 59 Resp: 346
 Ion Ratio Lower Upper
 59 100
 57 0.0 12.7 19.1#

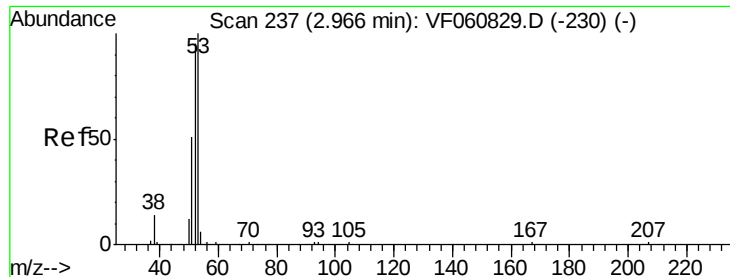


#13

Acrolein
 Concen: 6.421 ug/l
 RT: 2.05 min Scan# 144
 Delta R.T. 0.03 min
 Lab File: VF061012.D
 Acq: 12 Dec 2018 23:03

Tgt Ion: 56 Resp: 657
 Ion Ratio Lower Upper
 56 100
 55 68.4 61.2 91.8





#15

Acrylonitrile

Concen: 2.375 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.04 min

Lab File: VF061012.D

Acq: 12 Dec 2018 23:03

Instrument :

MSVOA_F

ClientSampleId :

SUP-5A-G-3-120718

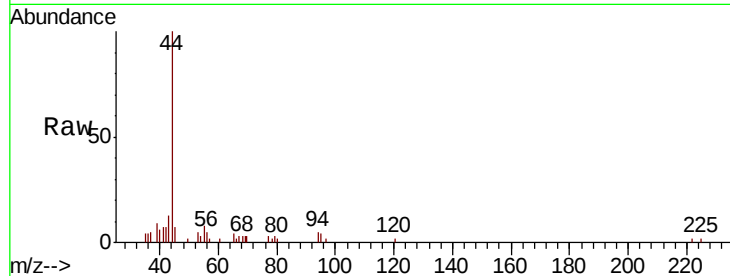
Tot Ion: 53 Resp: 575

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

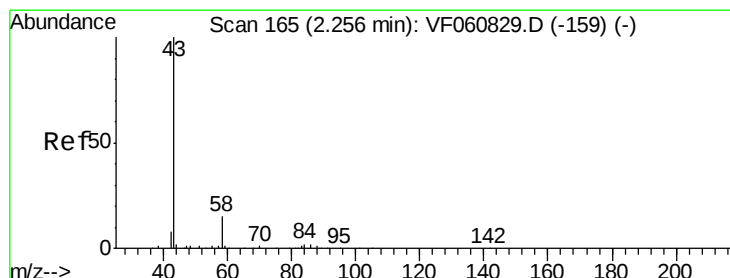
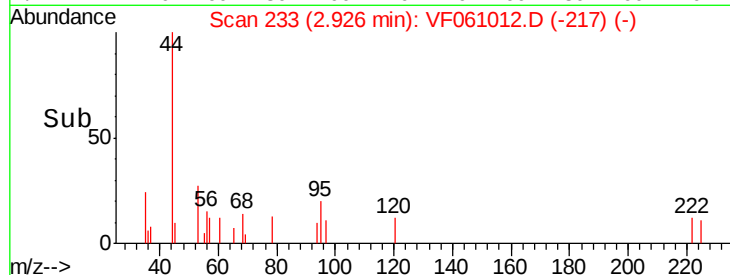
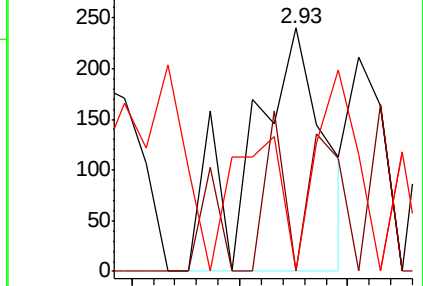
51 0.0 40.7 61.1#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 18.543 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF061012.D

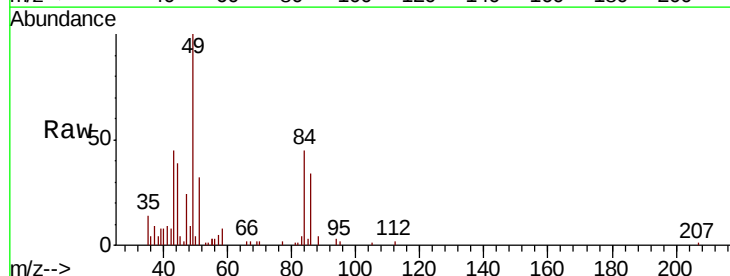
Acq: 12 Dec 2018 23:03

Tgt Ion: 43 Resp: 9009

Ion Ratio Lower Upper

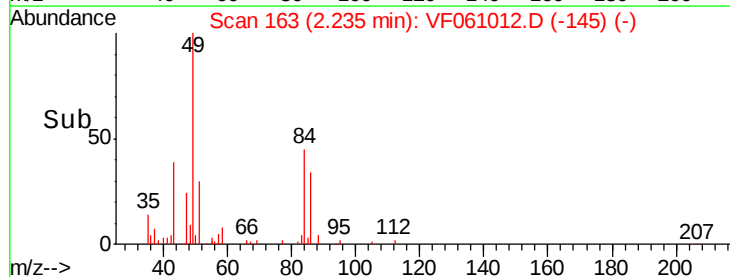
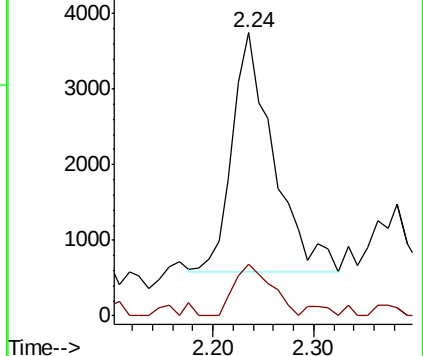
43 100

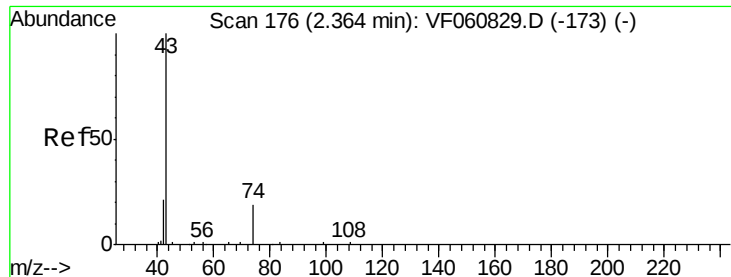
58 18.4 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

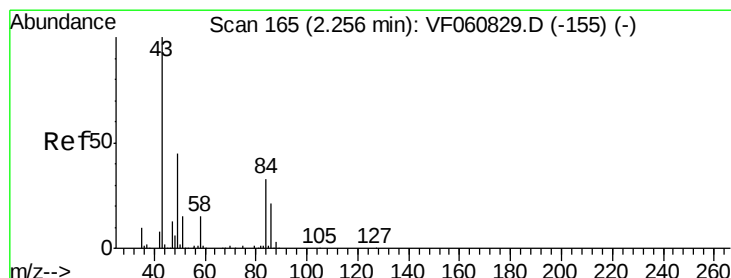
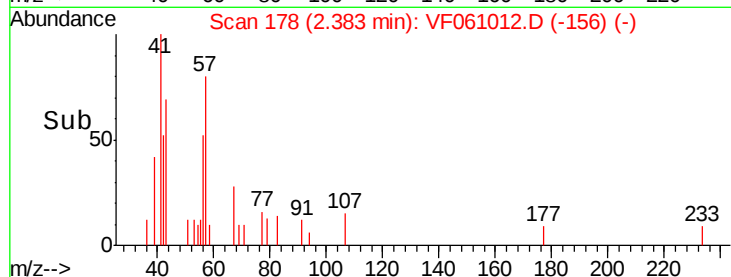
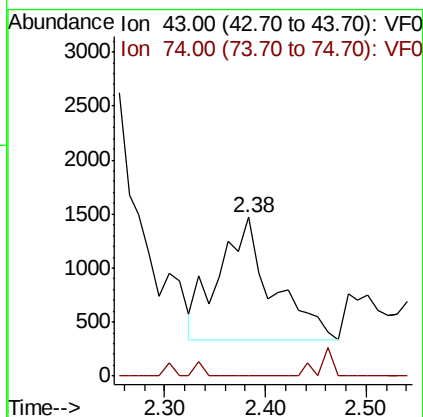
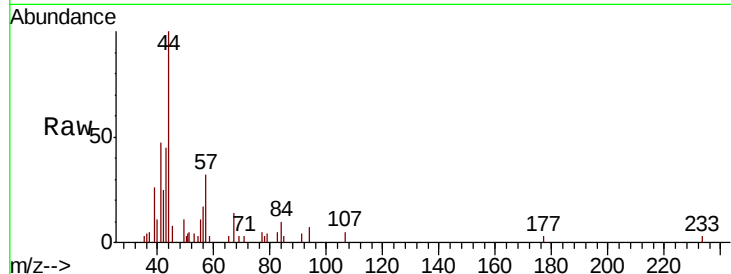




#18
Methyl Acetate
Concen: 3.605 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.02 min
Lab File: VF061012.D
Acq: 12 Dec 2018 23:03

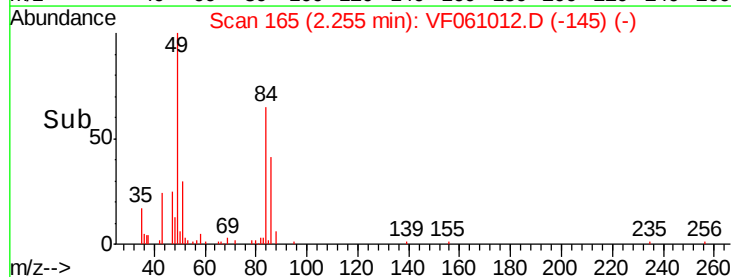
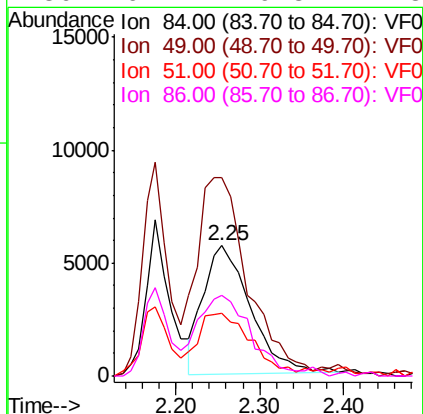
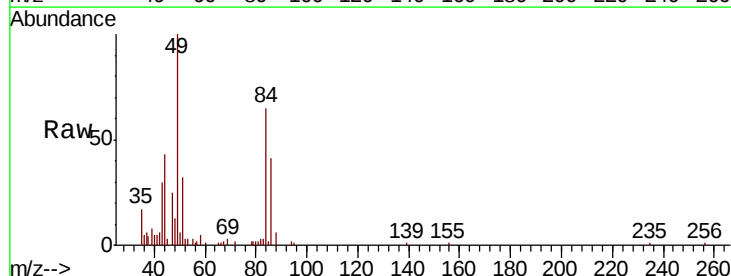
Instrument :
MSVOA_F
ClientSampleId :
SUP-5A-G-3-120718

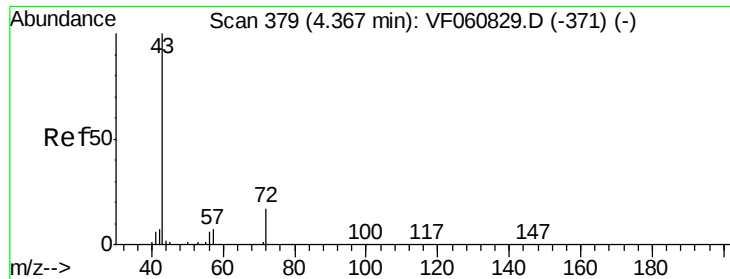
Tot Ion: 43 Resp: 4187
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#20
Methylene Chloride
Concen: 12.401 ug/l
RT: 2.25 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF061012.D
Acq: 12 Dec 2018 23:03

Tgt Ion: 84 Resp: 22103
Ion Ratio Lower Upper
84 100
49 152.7 111.3 166.9
51 48.2 38.0 57.0
86 62.4 49.8 74.8





#25

2-Butanone

Concen: 1.317 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.05 min

Lab File: VF061012.D

Acq: 12 Dec 2018 23:03

Instrument :

MSVOA_F

ClientSampleId :

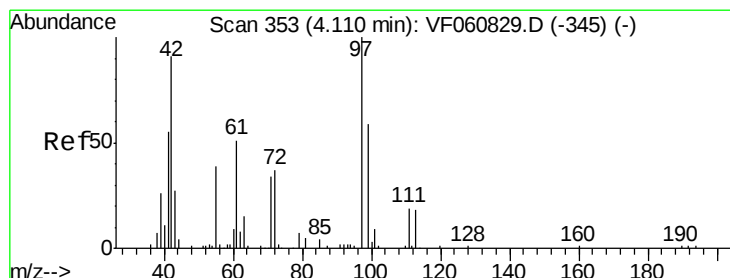
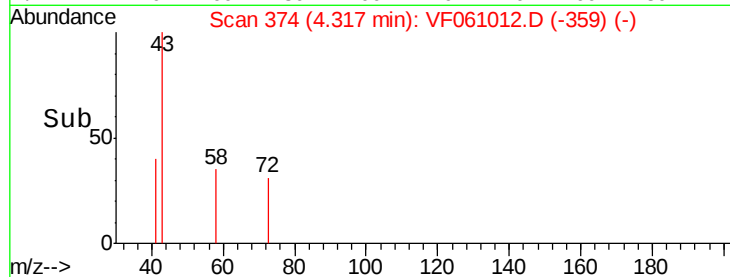
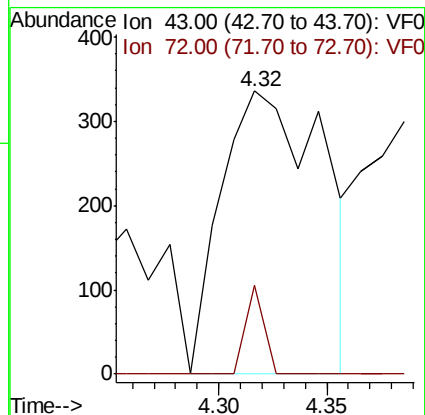
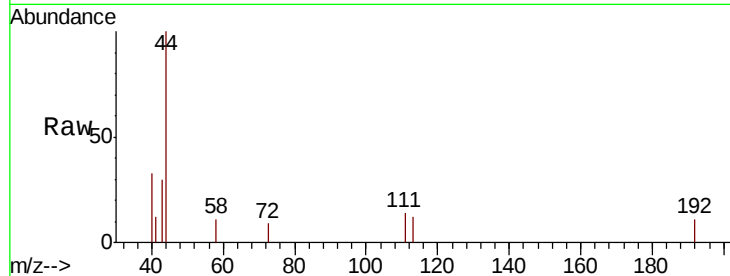
SUP-5A-G-3-120718

Tot Ion: 43 Resp: 1107

Ion Ratio Lower Upper

43 100

72 31.3 15.4 23.2#



#29

Tetrahydrofuran

Concen: 2.327 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF061012.D

Acq: 12 Dec 2018 23:03

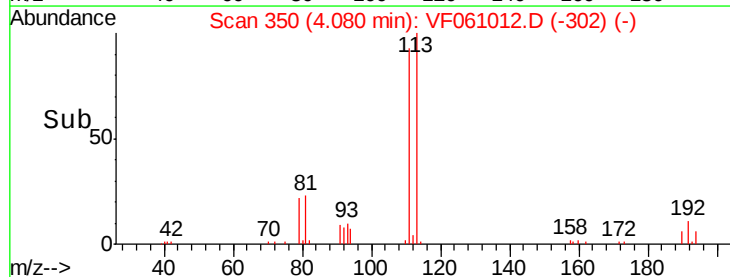
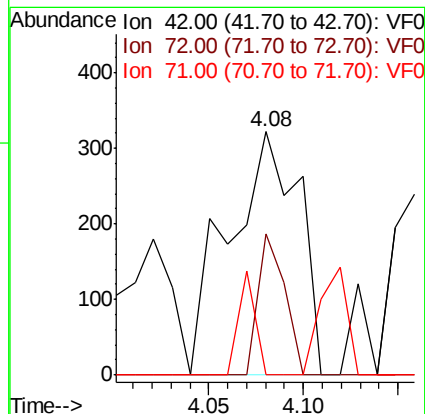
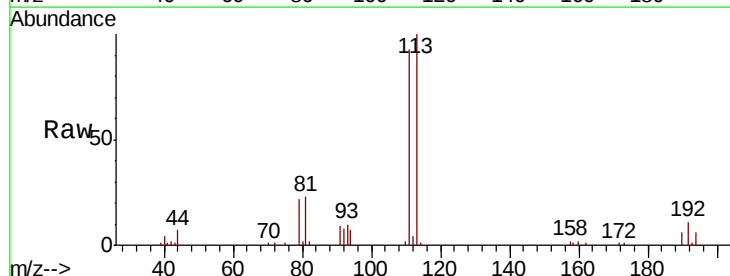
Tgt Ion: 42 Resp: 829

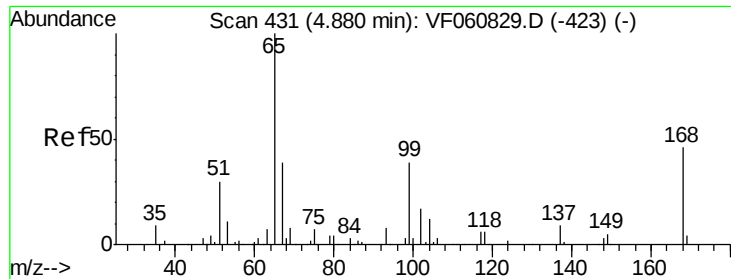
Ion Ratio Lower Upper

42 100

72 22.0 31.9 47.9#

71 9.8 28.7 43.1#





#33

1,2-Dichloroethane-d4

Concen: 42.066 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF061012.D

Acq: 12 Dec 2018 23:03

Instrument :

MSVOA_F

ClientSampleId :

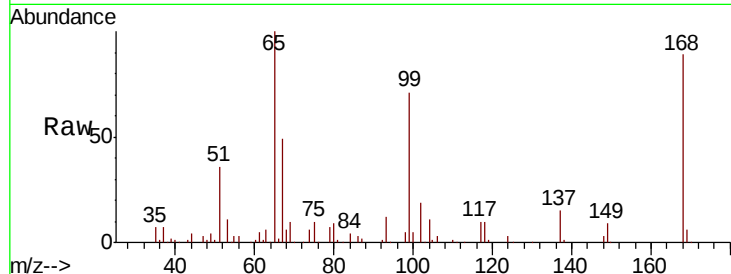
SUP-5A-G-3-120718

Tot Ion: 65 Resp: 110828

Ion Ratio Lower Upper

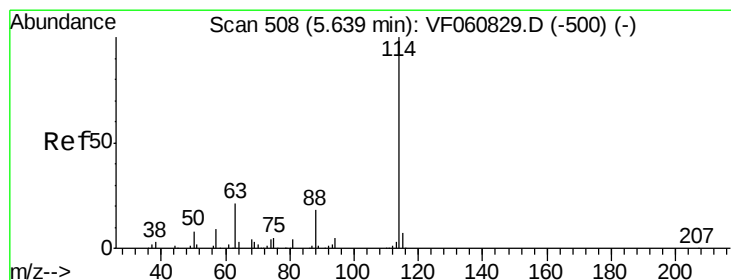
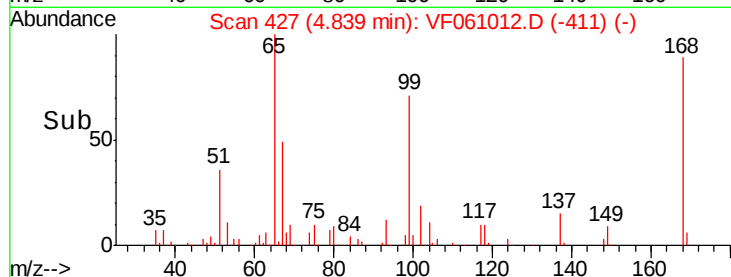
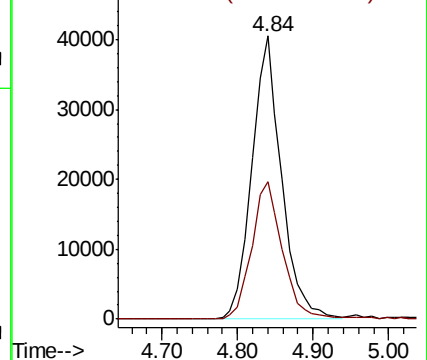
65 100

67 48.6 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: 5.59 min Scan# 503

Delta R.T. -0.05 min

Lab File: VF061012.D

Acq: 12 Dec 2018 23:03

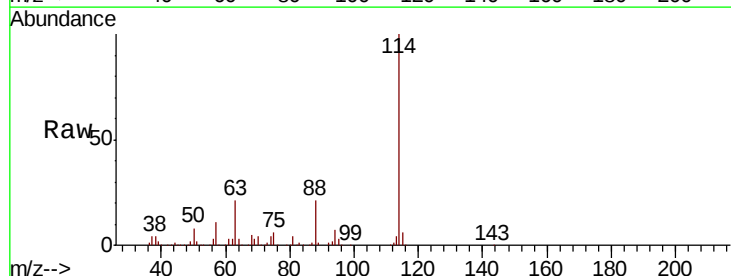
Tgt Ion: 114 Resp: 380844

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.6

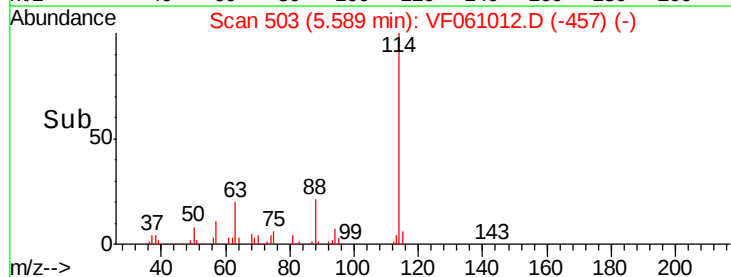
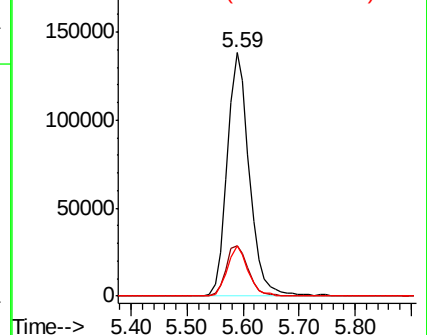
88 20.6 0.0 36.6

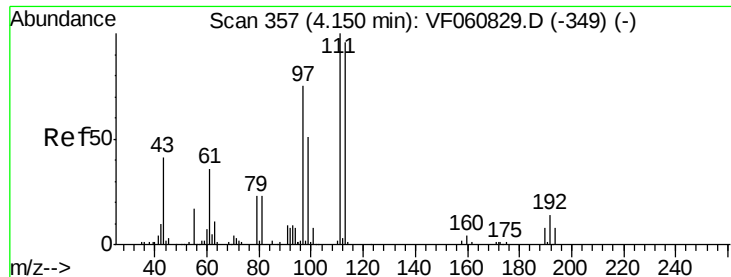


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

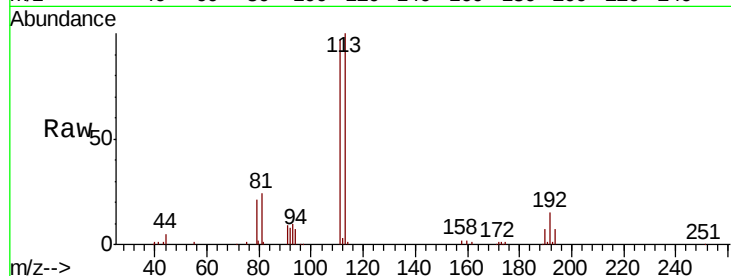




#35
Dibromofluoromethane
Concen: 42.897 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF061012.D
Acq: 12 Dec 2018 23:03

Instrument :
MSVOA_F
ClientSampleId :
SUP-5A-G-3-120718

Tot Ion	Ratio	Lower	Upper
113	100		
111	96.8	83.0	124.6
192	15.1	12.3	18.5

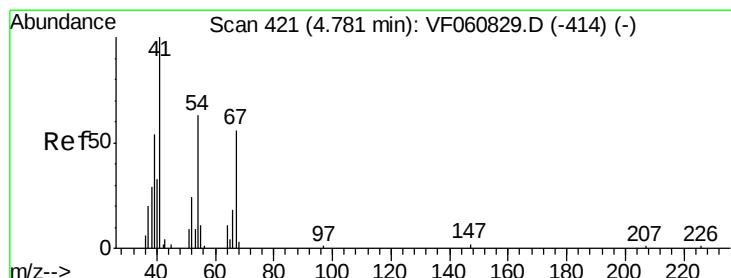
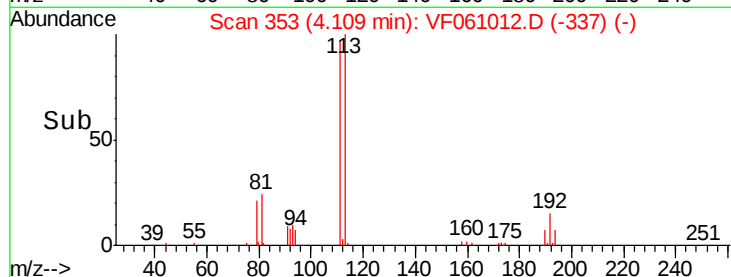
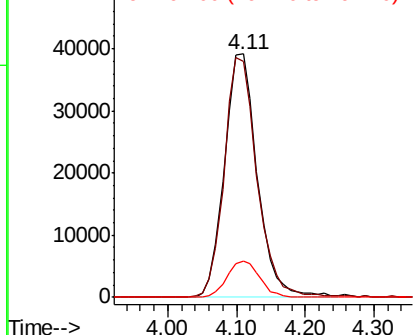


Abundance

Ion 113.00 (112.70 to 113.70): V

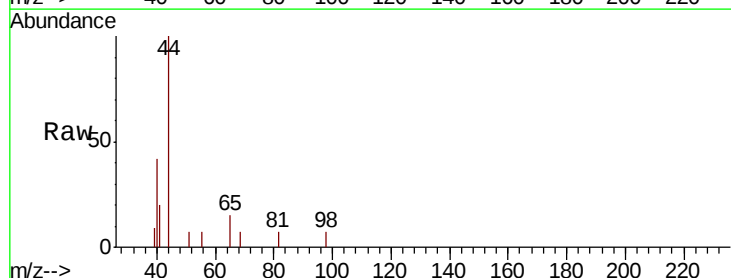
Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#41
Methacrylonitrile
Concen: Below Cal
RT: 4.78 min Scan# 421
Delta R.T. -0.00 min
Lab File: VF061012.D
Acq: 12 Dec 2018 23:03

Tgt Ion	Ratio	Lower	Upper
41	100		
39	45.3	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



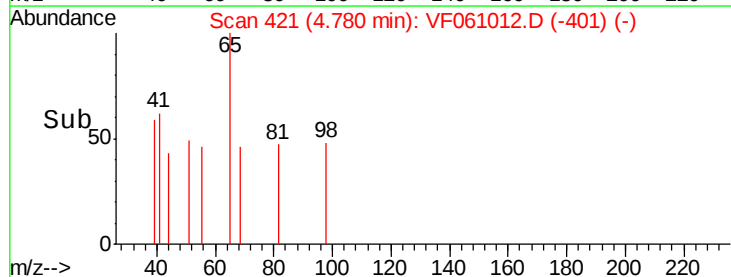
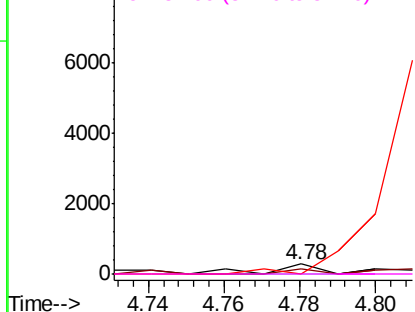
Abundance

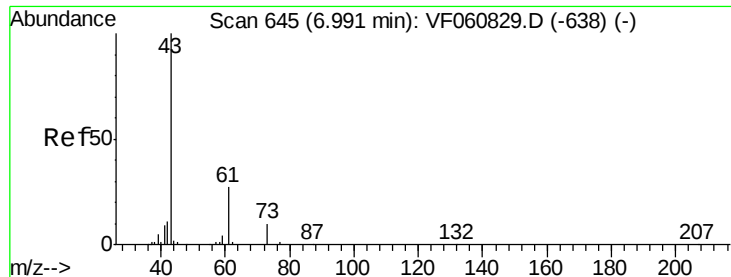
Ion 41.00 (40.70 to 41.70): VF0

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



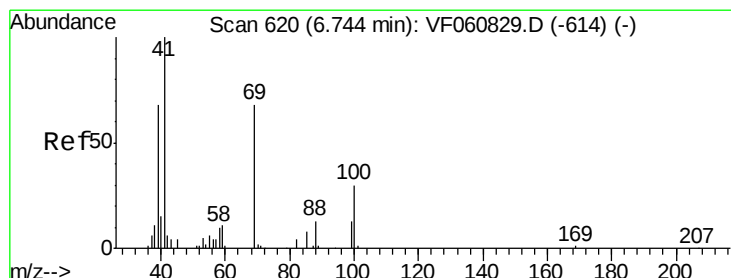
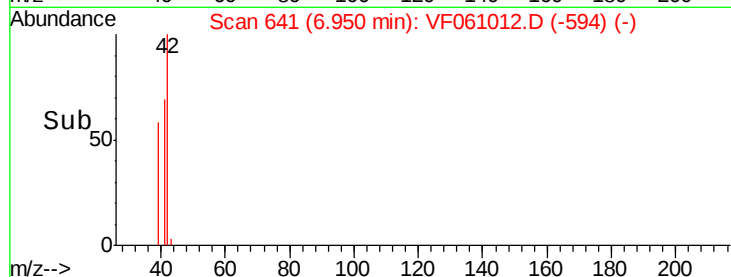
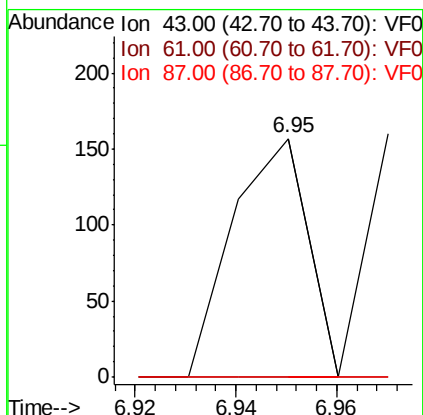
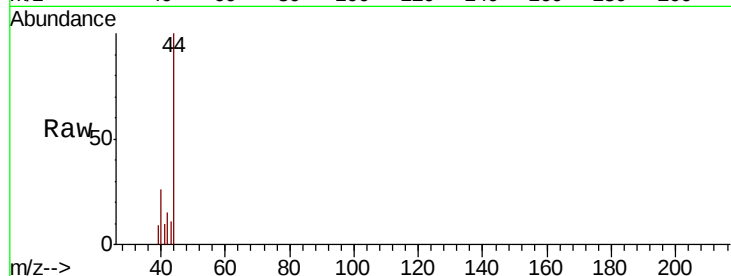


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.95 min Scan# 641
 Delta R.T. -0.04 min
 Lab File: VF061012.D
 Acq: 12 Dec 2018 23:03

Instrument :
 MSVOA_F
 ClientSampleId :
 SUP-5A-G-3-120718

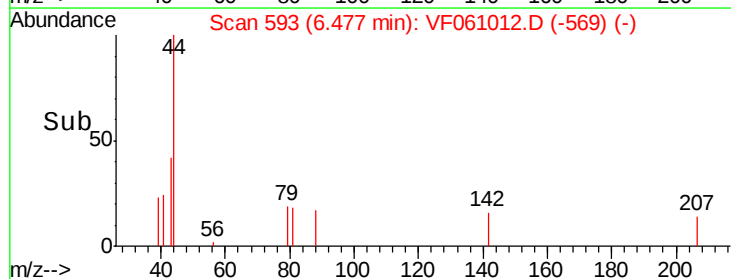
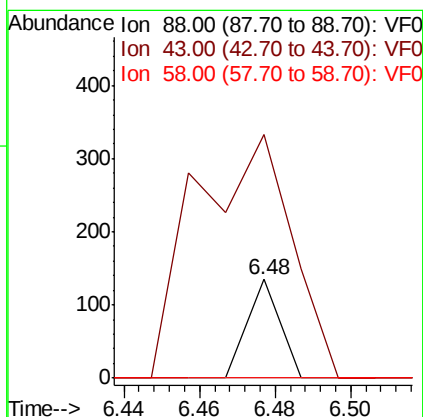
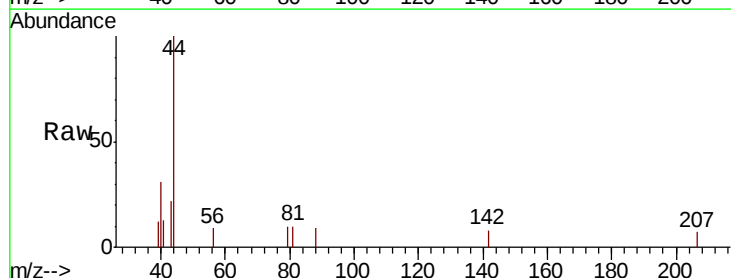
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#

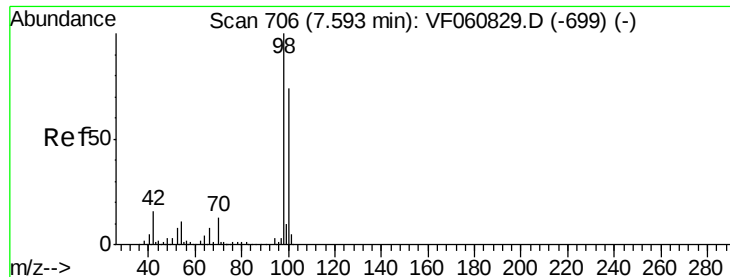


#49

1,4-Dioxane
 Concen: 7.035 ug/l
 RT: 6.48 min Scan# 593
 Delta R.T. -0.27 min
 Lab File: VF061012.D
 Acq: 12 Dec 2018 23:03

Tgt Ion	Ratio	Lower	Upper
88	100		
43	246.7	42.0	63.0#
58	0.0	61.8	92.8#





#50

Toluene-d8

Concen: 36.309 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.05 min

Lab File: VF061012.D

Acq: 12 Dec 2018 23:03

Instrument :

MSVOA_F

ClientSampleId :

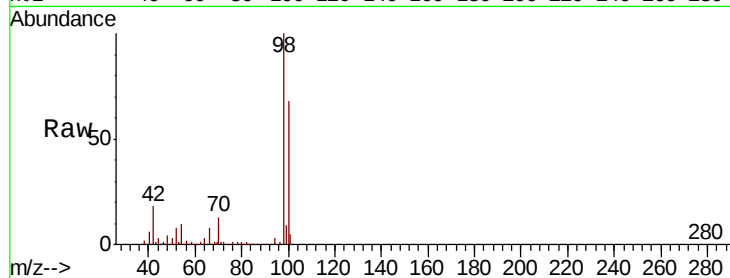
SUP-5A-G-3-120718

Tot Ion: 98 Resp: 323148

Ion Ratio Lower Upper

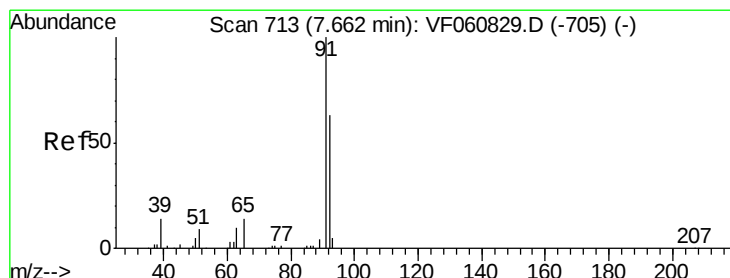
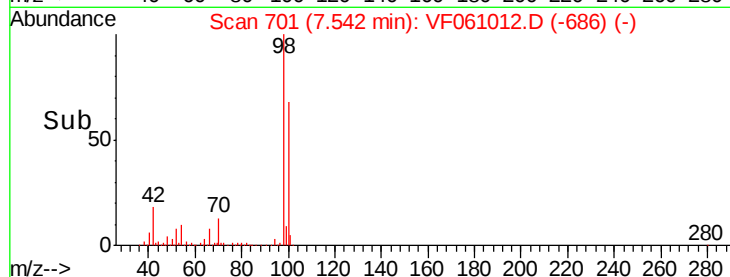
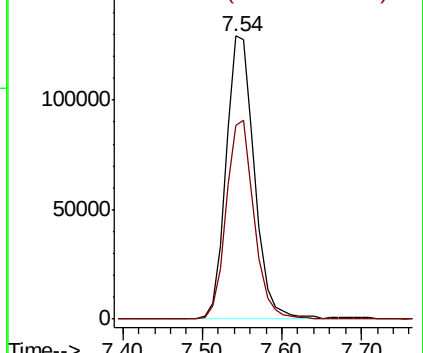
98 100

100 68.4 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#52

Toluene

Concen: 2.600 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF061012.D

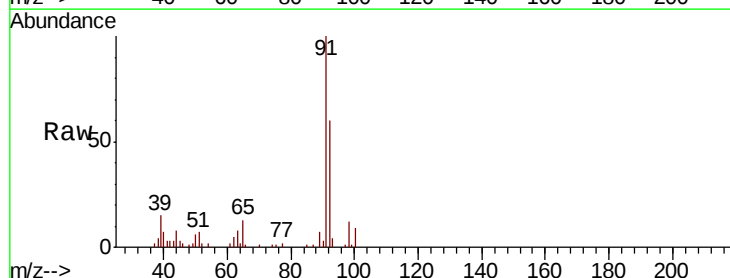
Acq: 12 Dec 2018 23:03

Tgt Ion: 92 Resp: 17045

Ion Ratio Lower Upper

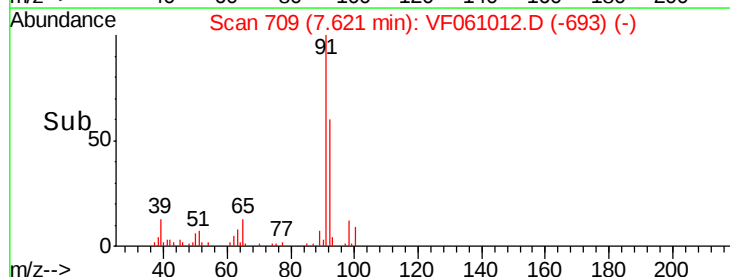
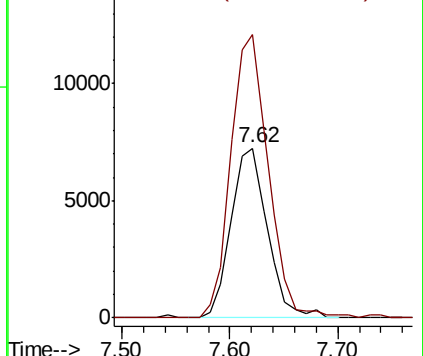
92 100

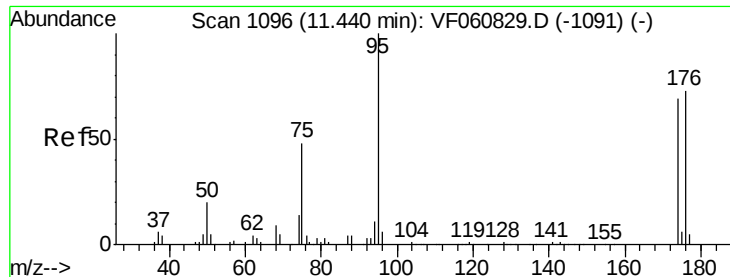
91 166.6 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#62

4-Bromofluorobenzene

Concen: 37.980 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF061012.D

Acq: 12 Dec 2018 23:03

Instrument :

MSVOA_F

ClientSampleId :

SUP-5A-G-3-120718

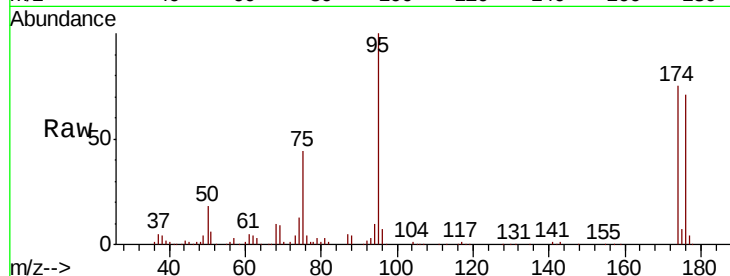
Tot Ion: 95 Resp: 153624

Ion Ratio Lower Upper

95 100

174 74.9 0.0 138.2

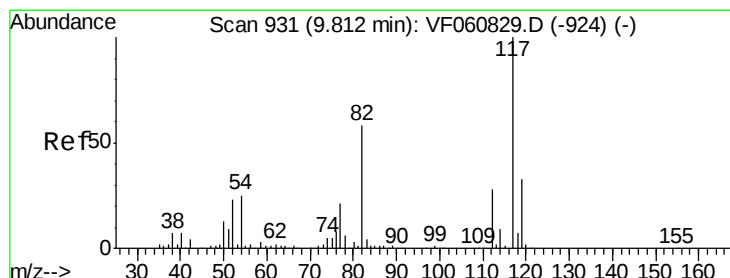
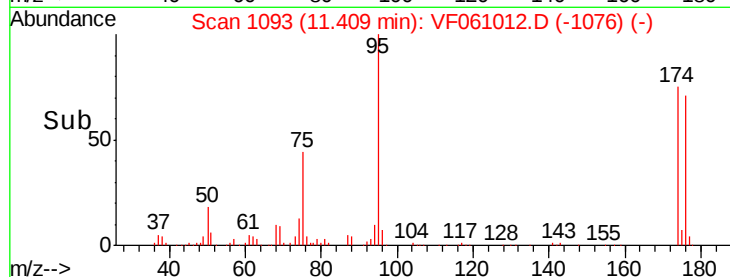
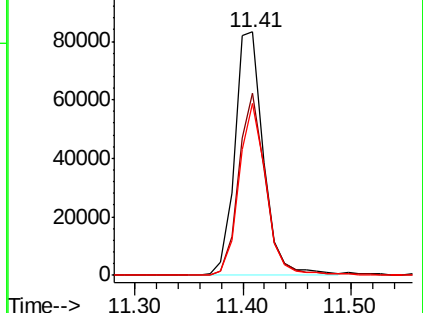
176 70.7 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF060829.D (-1091) (-)

Ion 174.00 (173.70 to 174.70): VF060829.D (-1091) (-)

Ion 176.00 (175.70 to 176.70): VF060829.D (-1091) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.04 min

Lab File: VF061012.D

Acq: 12 Dec 2018 23:03

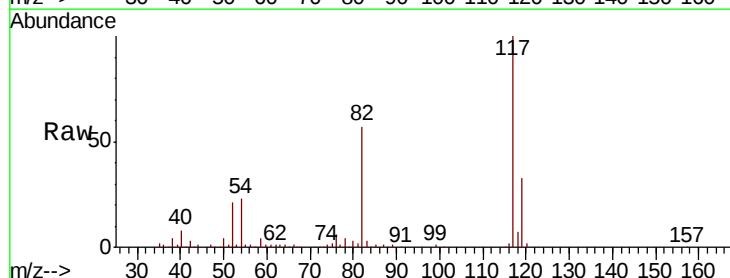
Tgt Ion: 117 Resp: 349853

Ion Ratio Lower Upper

117 100

82 56.8 46.6 69.8

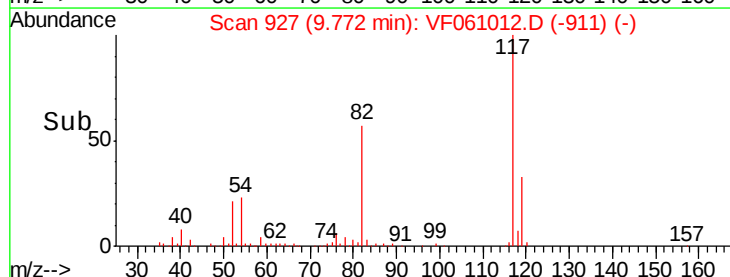
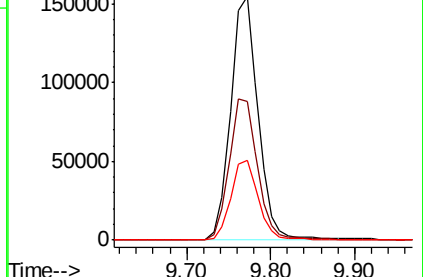
119 32.7 26.4 39.6

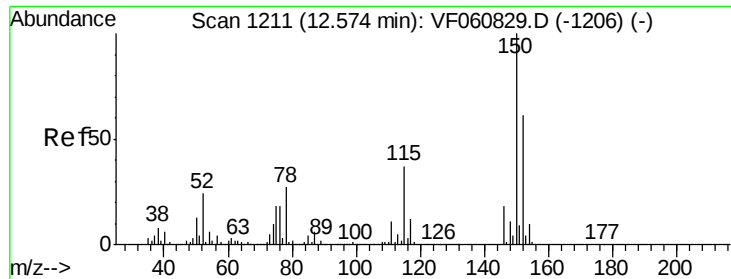


Abundance Ion 117.00 (116.70 to 117.70): VF060829.D (-924) (-)

Ion 82.00 (81.70 to 82.70): VF060829.D (-924) (-)

Ion 119.00 (118.70 to 119.70): VF060829.D (-924) (-)



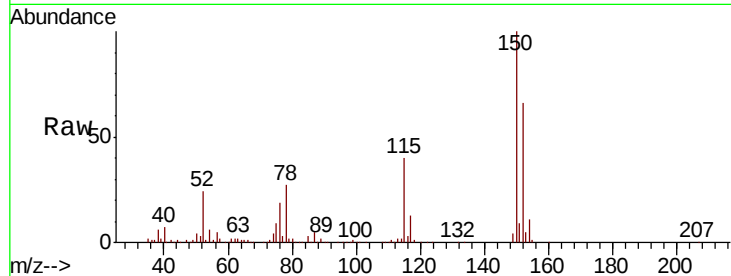


#72

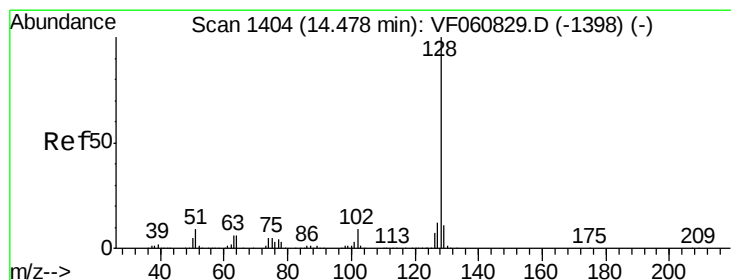
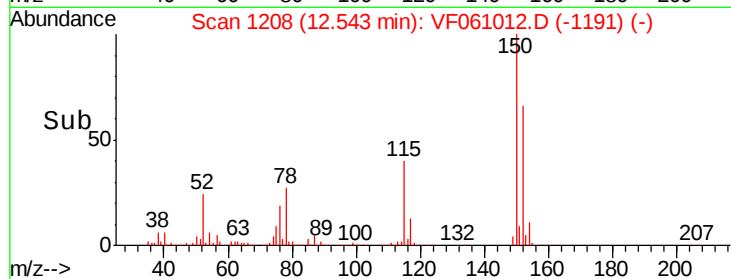
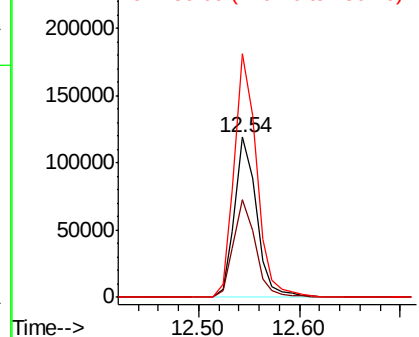
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF061012.D
Acq: 12 Dec 2018 23:03

Instrument :
MSVOA_F
ClientSampleId :
SUP-5A-G-3-120718

Tot Ion:152 Resp: 181969
Ion Ratio Lower Upper
152 100
115 61.1 30.1 90.5
150 152.0 0.0 327.6



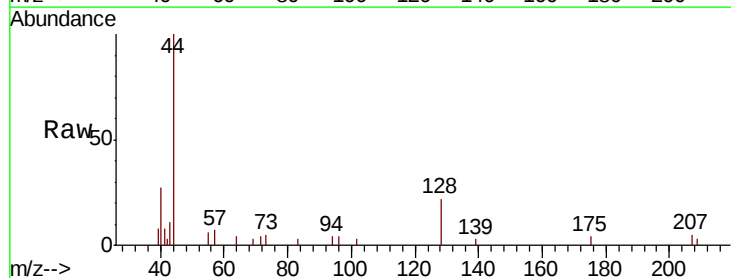
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



#95

Naphthalene
Concen: Below Cal
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF061012.D
Acq: 12 Dec 2018 23:03

Tgt Ion:128 Resp: 1420
Ion Ratio Lower Upper
128 100
127 0.0 9.9 14.9#
129 0.0 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

