

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121018\
 Data File : VF060969.D
 Acq On : 10 Dec 2018 22:40
 Operator : VA/AP
 Sample : J6214-50
 Misc : 4.60µ/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 11 04:59:52 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	203701	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.59	114	342518	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	267486	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	141956	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	109233	45.52	ug/l	-0.04
Spiked Amount			Recovery	=	91.04%	
35) Dibromofluoromethane	4.11	113	120745	44.44	ug/l	-0.04
Spiked Amount			Recovery	=	88.88%	
50) Toluene-d8	7.55	98	233024	29.11	ug/l	-0.04
Spiked Amount			Recovery	=	58.22%	
62) 4-Bromofluorobenzene	11.41	95	131727	36.21	ug/l	-0.03
Spiked Amount			Recovery	=	72.42%	

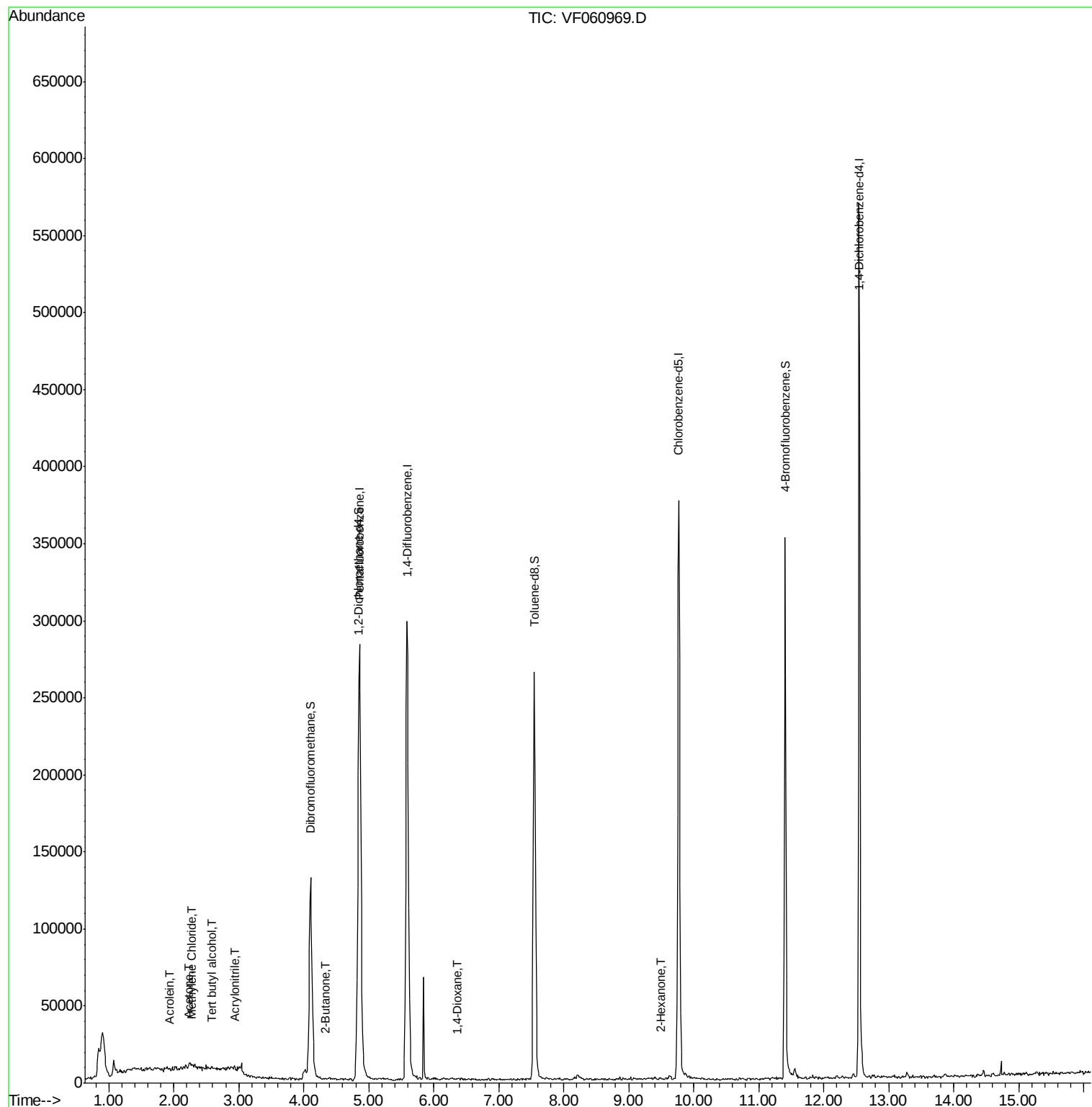
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.60	59	118	1.200	ug/l #	62
13) Acrolein	1.94	56	362	3.884	ug/l	89
15) Acrylonitrile	2.94	53	289	1.310	ug/l #	58
16) Acetone	2.24	43	833	1.882	ug/l #	65
18) Methyl Acetate	2.32	43	402	Below Cal	#	61
20) Methylene Chloride	2.27	84	2888	1.779	ug/l #	81
25) 2-Butanone	4.34	43	1025	1.339	ug/l #	57
41) Methacrylonitrile	4.70	41	96	Below Cal	#	47
43) Isopropyl Acetate	6.94	43	67	Below Cal	#	49
49) 1,4-Dioxane	6.37	88	61	5.964	ug/l #	19
59) 2-Hexanone	9.49	43	1309	1.311	ug/l	86
95) Naphthalene	14.46	128	1848	Below Cal	#	76

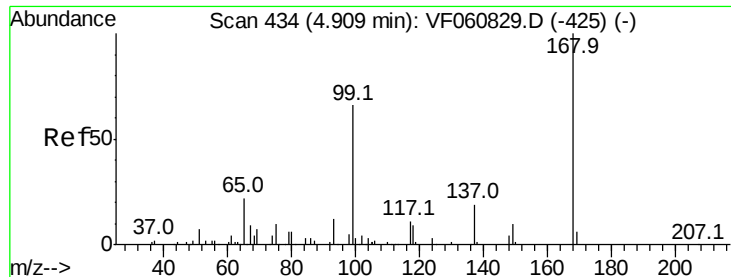
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF060969.D

Acq: 10 Dec 2018 22:40

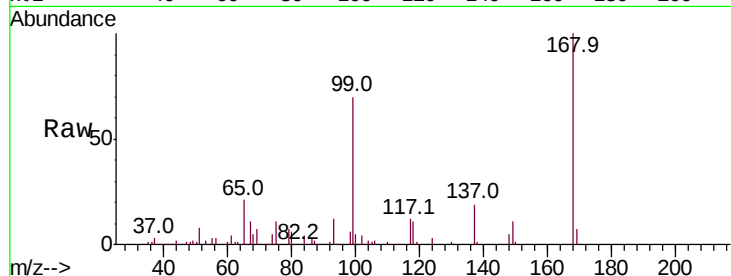
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 203701

Ion Ratio Lower Upper

168 100

99 69.8 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

60000

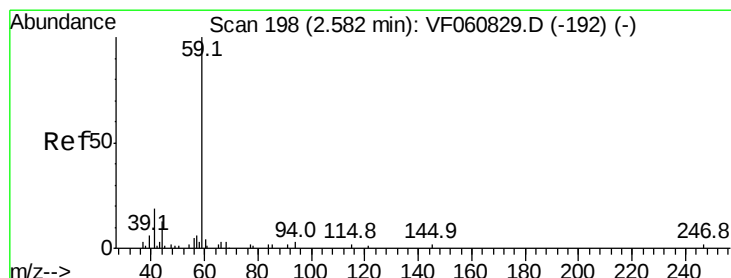
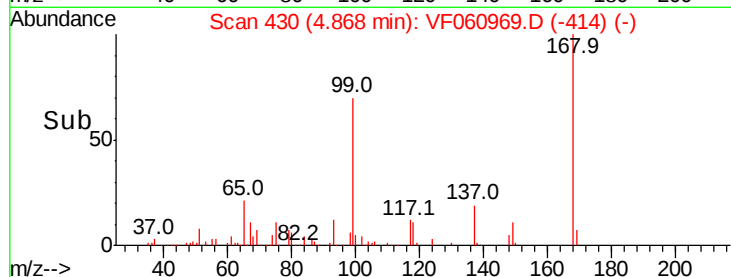
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.200 ug/l

RT: 2.60 min Scan# 200

Delta R.T. 0.02 min

Lab File: VF060969.D

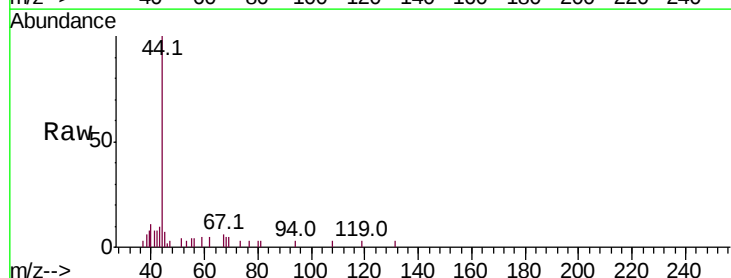
Acq: 10 Dec 2018 22:40

Tgt Ion: 59 Resp: 118

Ion Ratio Lower Upper

59 100

57 0.0 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

300

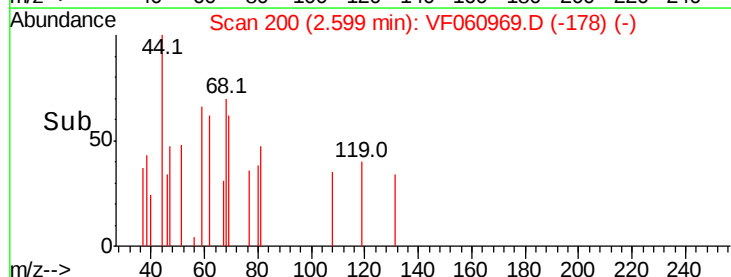
200

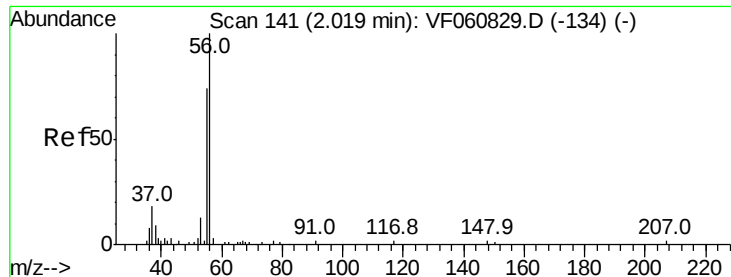
100

0

Time-->

2.58 2.60





#13

Acrolein

Concen: 3.884 ug/l

RT: 1.94 min Scan# 133

Delta R.T. -0.08 min

Lab File: VF060969.D

Acq: 10 Dec 2018 22:40

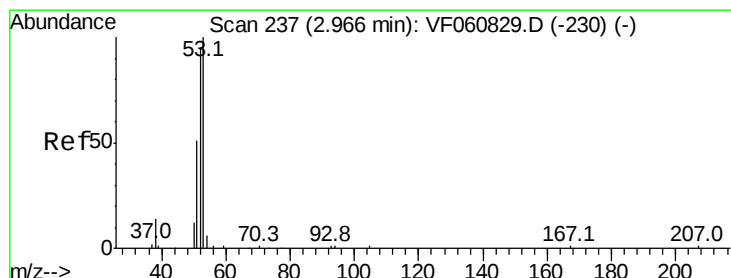
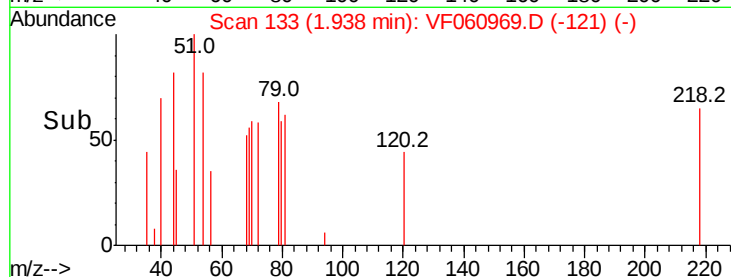
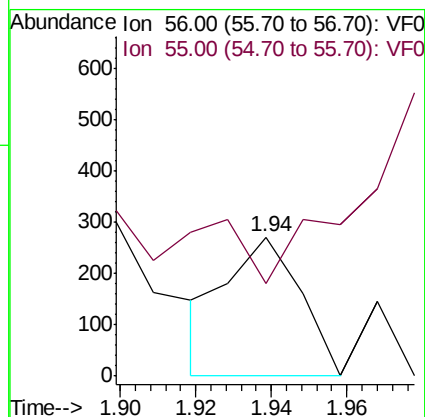
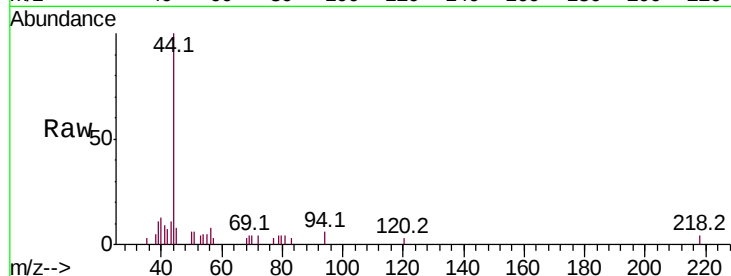
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 362

Ion Ratio Lower Upper

56 100

55 66.8 61.2 91.8



#15

Acrylonitrile

Concen: 1.310 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF060969.D

Acq: 10 Dec 2018 22:40

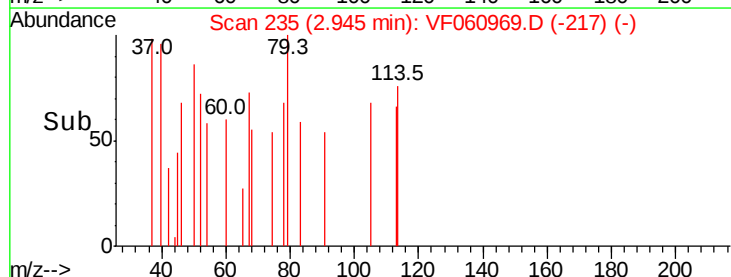
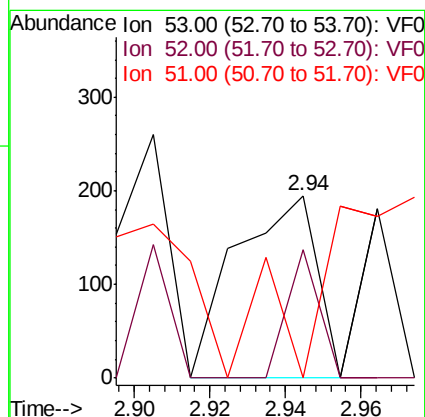
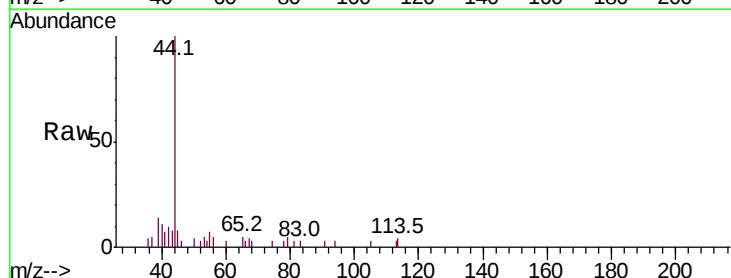
Tgt Ion: 53 Resp: 289

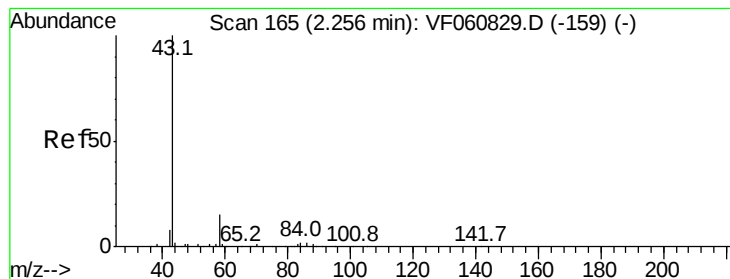
Ion Ratio Lower Upper

53 100

52 70.3 76.5 114.7#

51 0.0 40.7 61.1#





#16

Acetone

Concen: 1.882 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060969.D

Acq: 10 Dec 2018 22:40

Instrument :

MSVOA_F

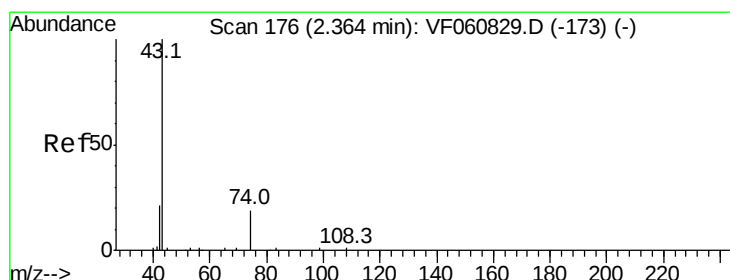
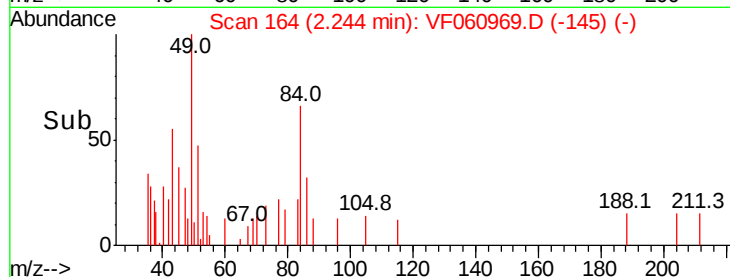
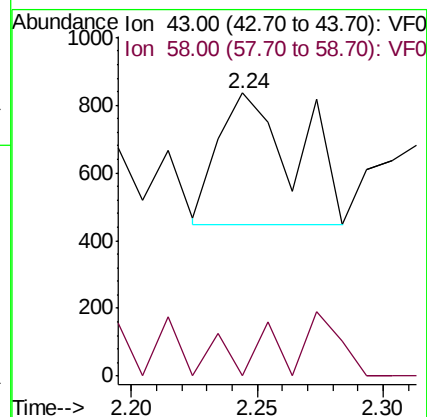
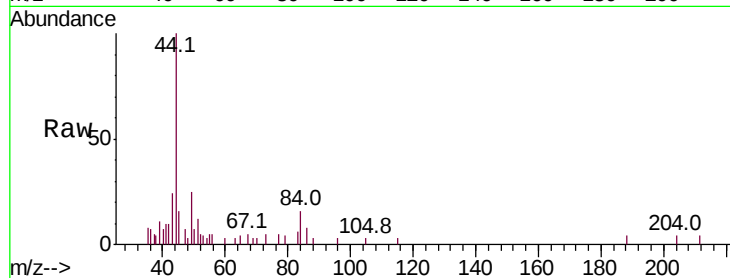
ClientSampleId :

Tot Ion: 43 Resp: 833

Ion Ratio Lower Upper

43 100

58 0.0 11.4 17.2#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.32 min Scan# 172

Delta R.T. -0.04 min

Lab File: VF060969.D

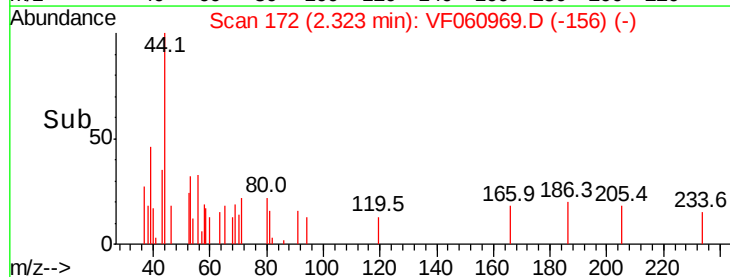
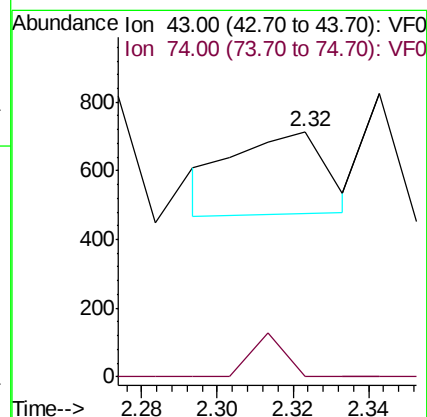
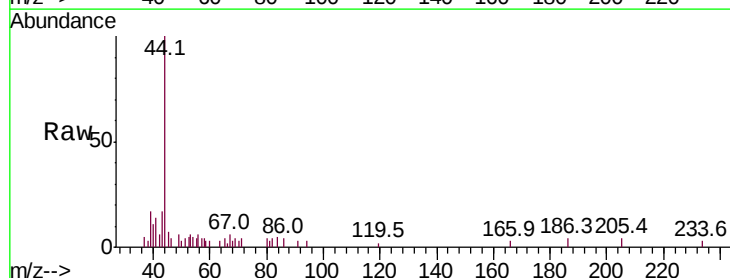
Acq: 10 Dec 2018 22:40

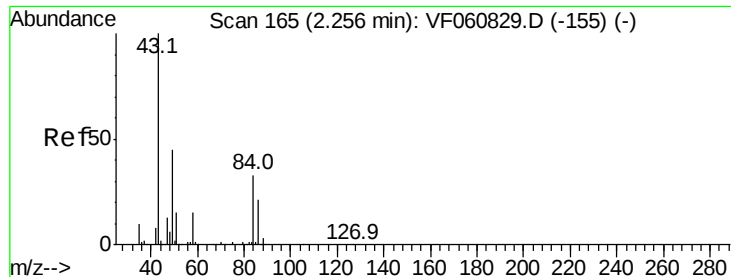
Tgt Ion: 43 Resp: 402

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#





#20

Methylene Chloride

Concen: 1.779 ug/l

RT: 2.27 min Scan# 167

Delta R.T. 0.02 min

Lab File: VF060969.D

Acq: 10 Dec 2018 22:40

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 2888

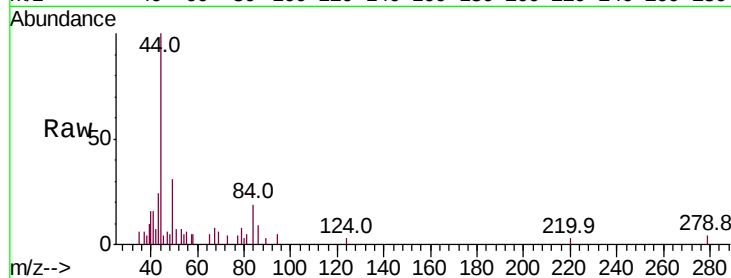
Ion Ratio Lower Upper

84 100

49 160.1 111.3 166.9

51 34.2 38.0 57.0#

86 45.3 49.8 74.8#



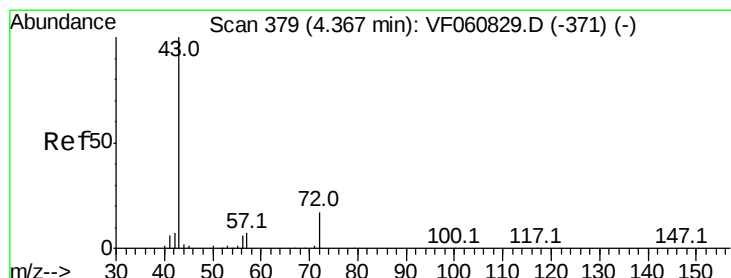
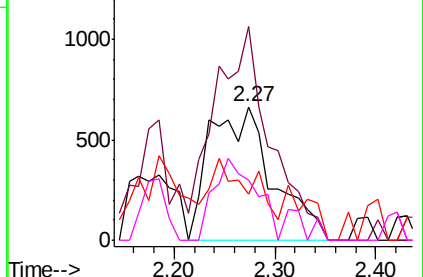
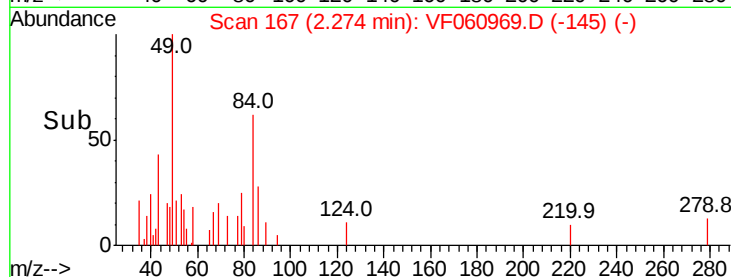
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

Time-->



#25

2-Butanone

Concen: 1.339 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF060969.D

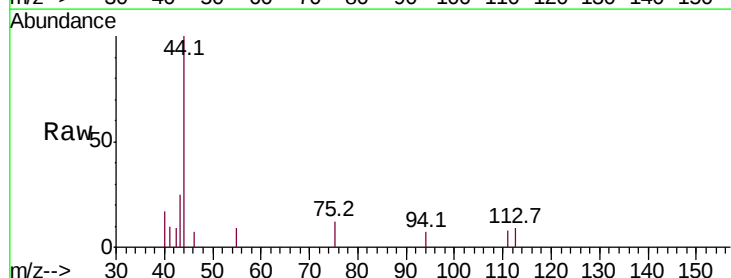
Acq: 10 Dec 2018 22:40

Tgt Ion: 43 Resp: 1025

Ion Ratio Lower Upper

43 100

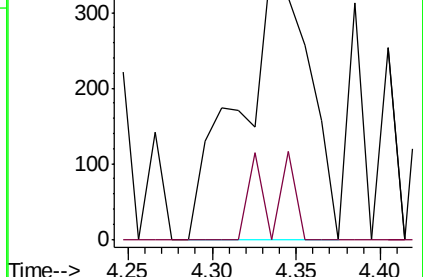
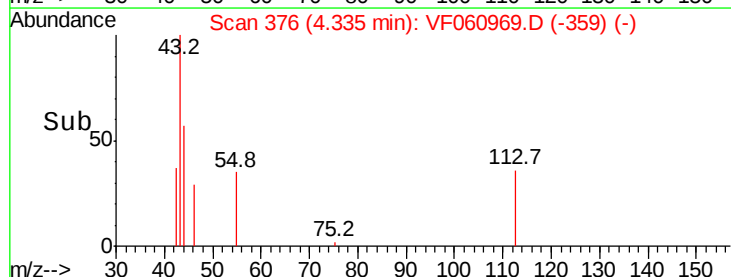
72 0.0 15.4 23.2#

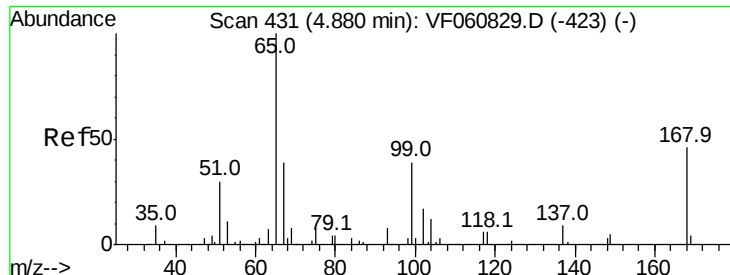


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Time-->

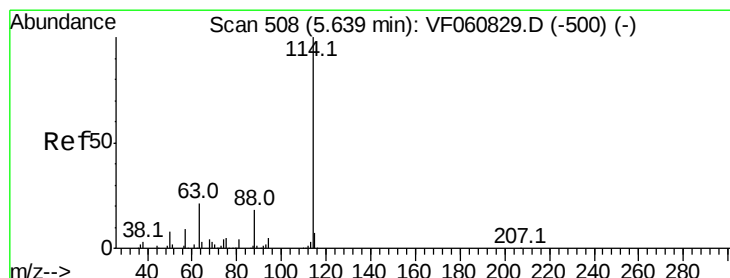
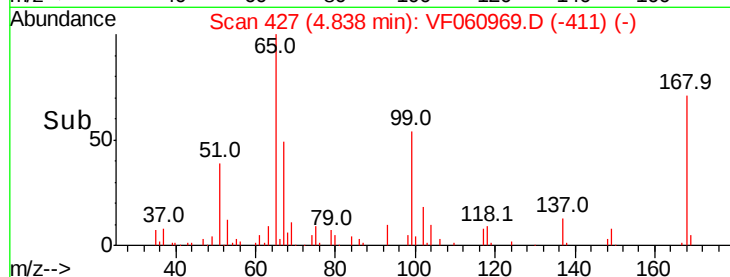
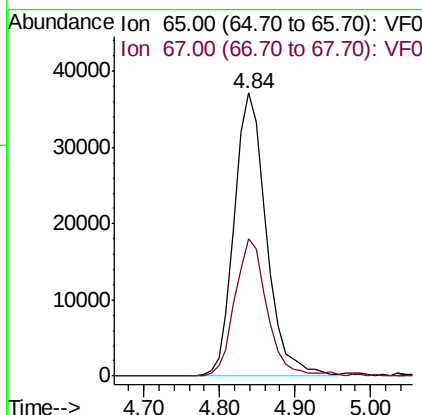
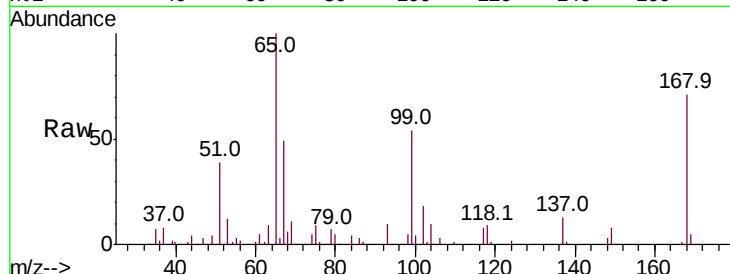




#33
 1,2-Dichloroethane-d4
 Concen: 45.520 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF060969.D
 Acq: 10 Dec 2018 22:40

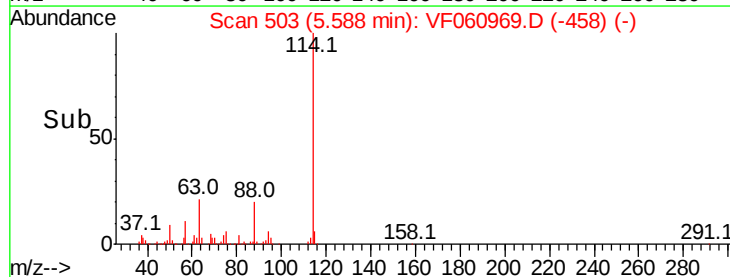
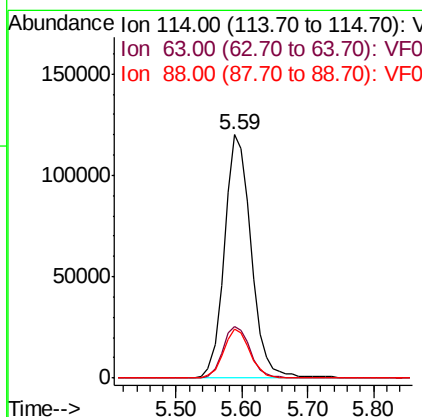
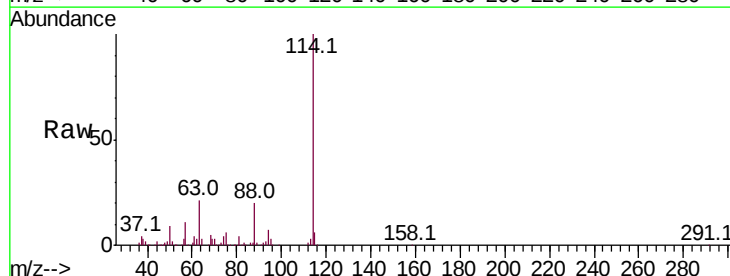
Instrument :
 MSVOA_F
 ClientSampleId :

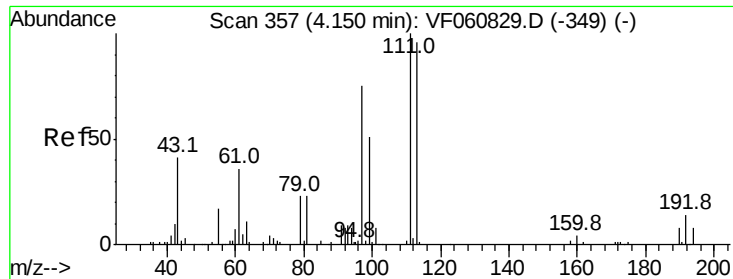
Tot Ion: 65 Resp: 109233
 Ion Ratio Lower Upper
 65 100
 67 48.5 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.05 min
 Lab File: VF060969.D
 Acq: 10 Dec 2018 22:40

Tgt Ion: 114 Resp: 342518
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 41.6
 88 20.0 0.0 36.6





#35

Dibromofluoromethane

Concen: 44.436 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060969.D

Acq: 10 Dec 2018 22:40

Instrument :
MSVOA_F
ClientSampleId :

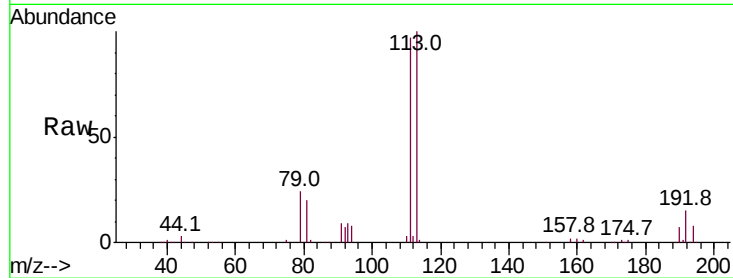
Tot Ion:113 Resp: 120745

Ion Ratio Lower Upper

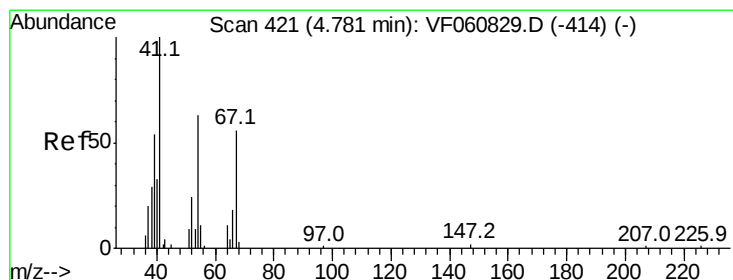
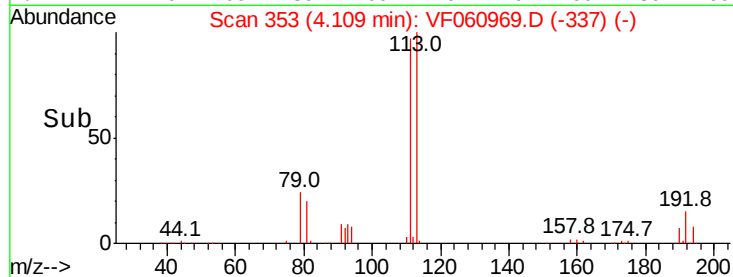
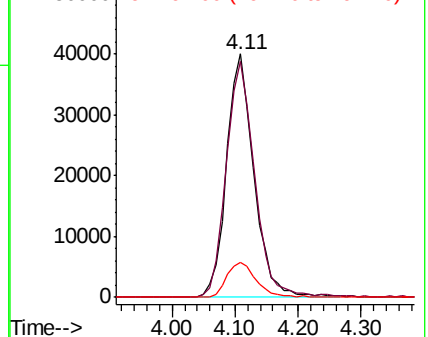
113 100

111 97.0 83.0 124.6

192 14.6 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: 4.70 min Scan# 413

Delta R.T. -0.08 min

Lab File: VF060969.D

Acq: 10 Dec 2018 22:40

Tgt Ion: 41 Resp: 96

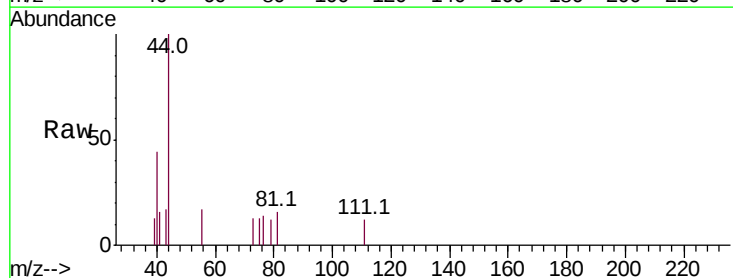
Ion Ratio Lower Upper

41 100

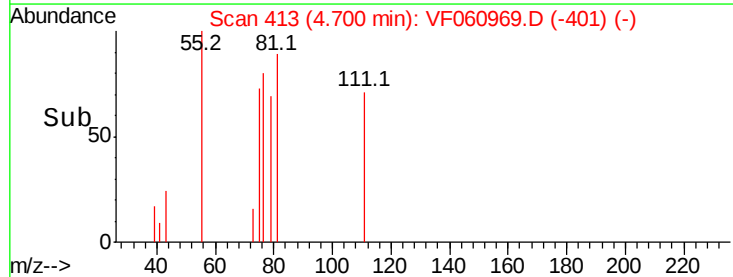
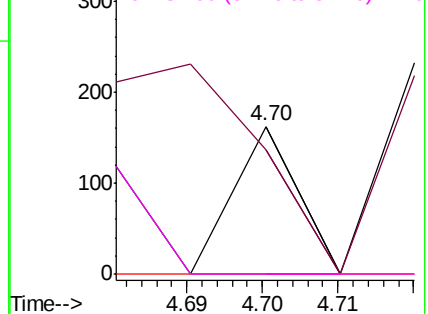
39 84.0 53.0 79.6#

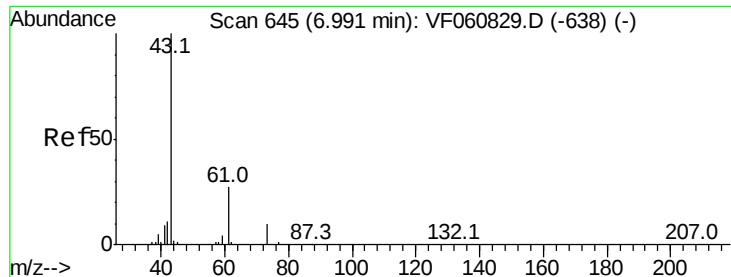
67 0.0 43.8 65.6#

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



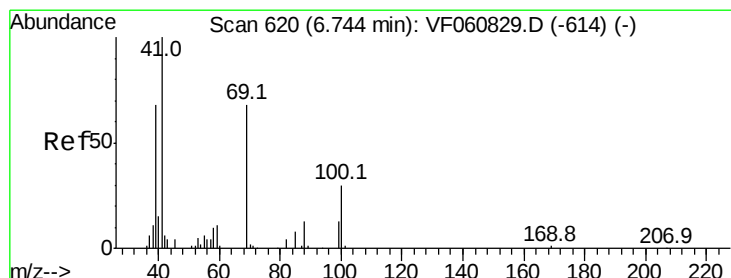
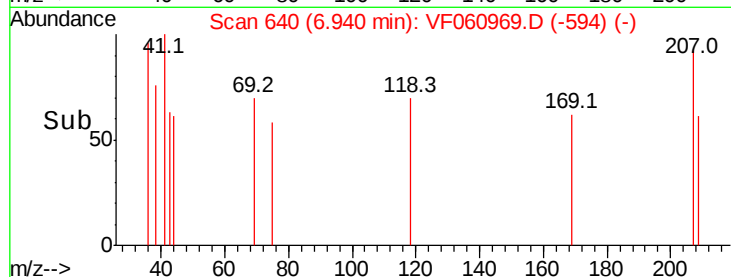
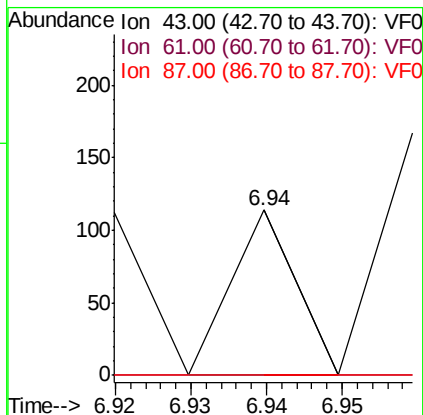
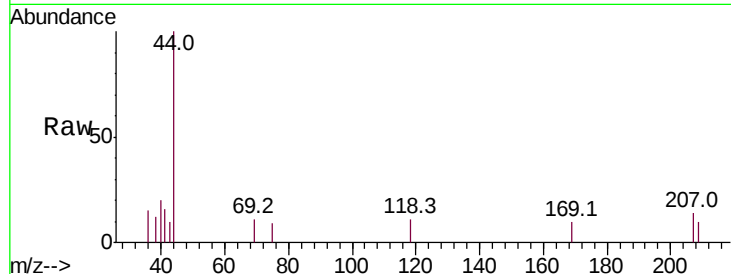


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.94 min Scan# 640
 Delta R.T. -0.05 min
 Lab File: VF060969.D
 Acq: 10 Dec 2018 22:40

Instrument :
 MSVOA_F
 ClientSampled :

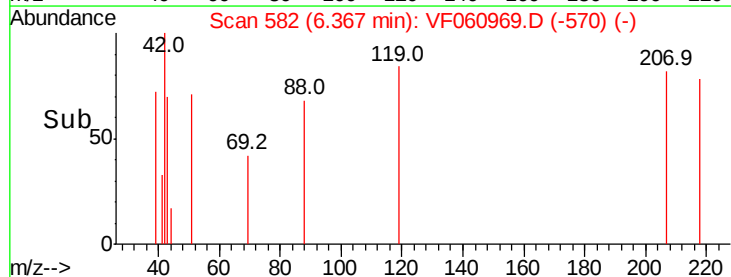
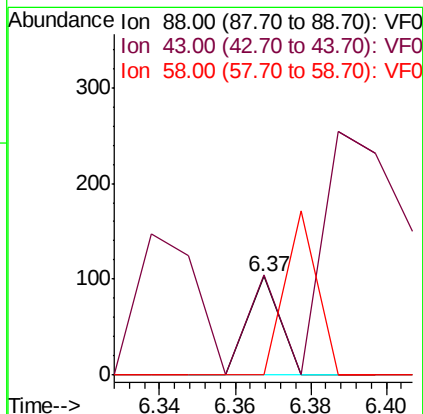
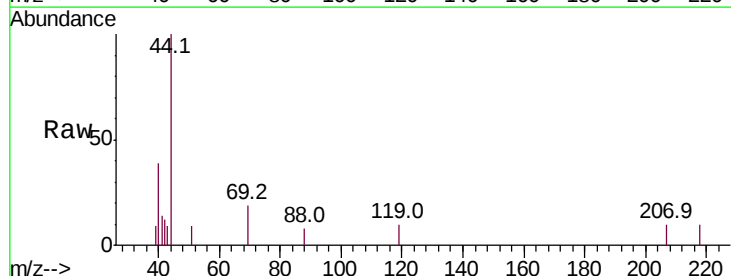
Tot Ion: 43 Resp: 67
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#

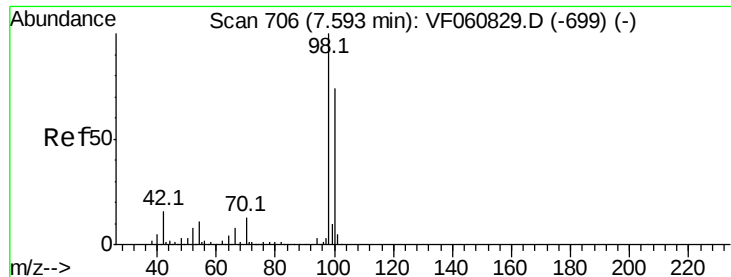


#49

1,4-Dioxane
 Concen: 5.964 ug/l
 RT: 6.37 min Scan# 582
 Delta R.T. -0.38 min
 Lab File: VF060969.D
 Acq: 10 Dec 2018 22:40

Tgt Ion: 88 Resp: 61
 Ion Ratio Lower Upper
 88 100
 43 101.9 42.0 63.0#
 58 0.0 61.8 92.8#

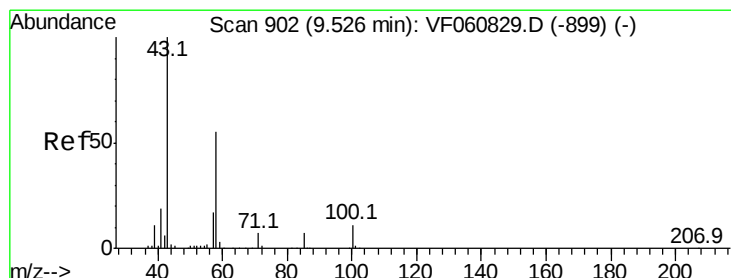
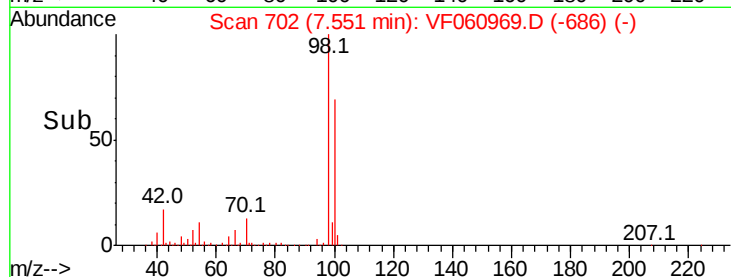
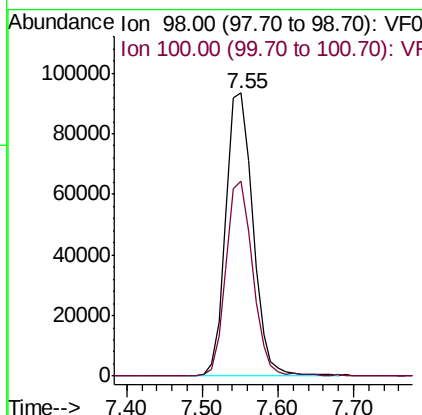
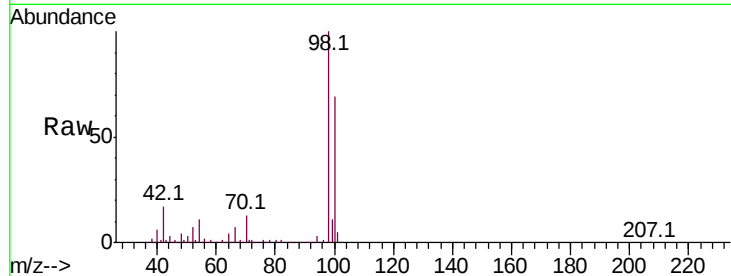




#50
Toluene-d8
Concen: 29.112 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.04 min
Lab File: VF060969.D
Acq: 10 Dec 2018 22:40

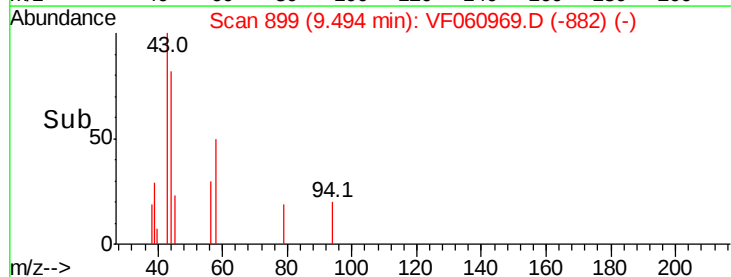
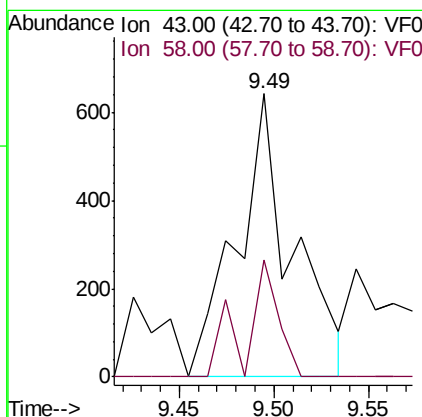
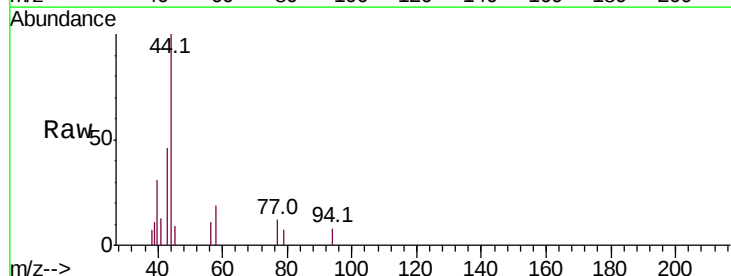
Instrument :
MSVOA_F
ClientSampled :

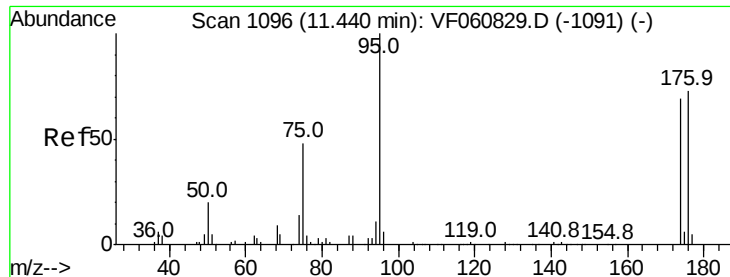
Tot Ion: 98 Resp: 233024
Ion Ratio Lower Upper
98 100
100 68.8 59.3 88.9



#59
2-Hexanone
Concen: 1.311 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF060969.D
Acq: 10 Dec 2018 22:40

Tgt Ion: 43 Resp: 1309
Ion Ratio Lower Upper
43 100
58 41.3 25.6 76.6





#62

4-Bromofluorobenzene

Concen: 36.210 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060969.D

Acq: 10 Dec 2018 22:40

Instrument :

MSVOA_F

ClientSampleId :

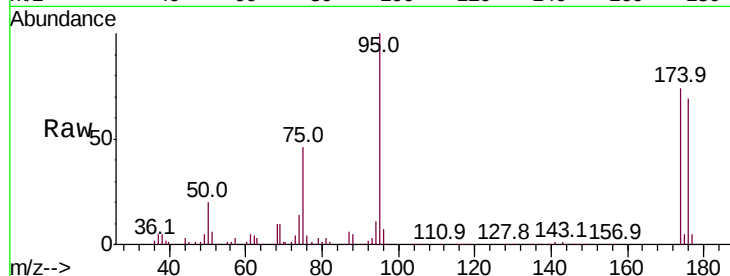
Tot Ion: 95 Resp: 131727

Ion Ratio Lower Upper

95 100

174 74.1 0.0 138.2

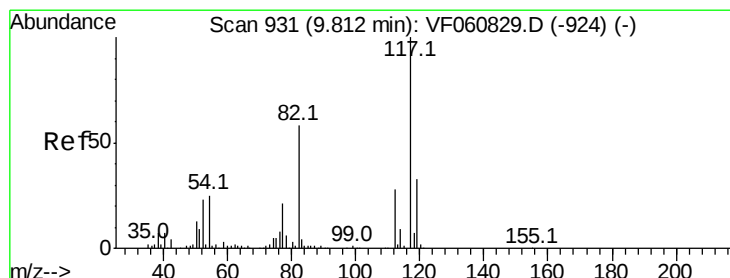
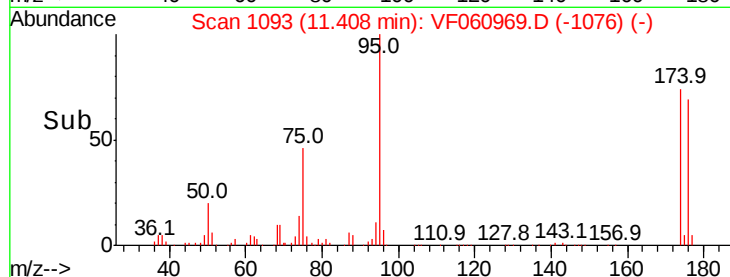
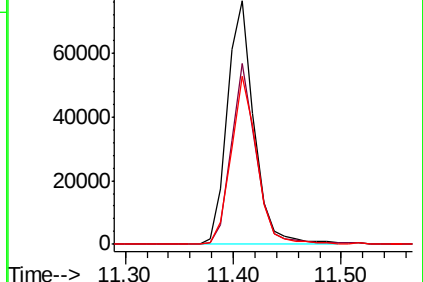
176 69.1 0.0 146.2



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: VF060969.D

Acq: 10 Dec 2018 22:40

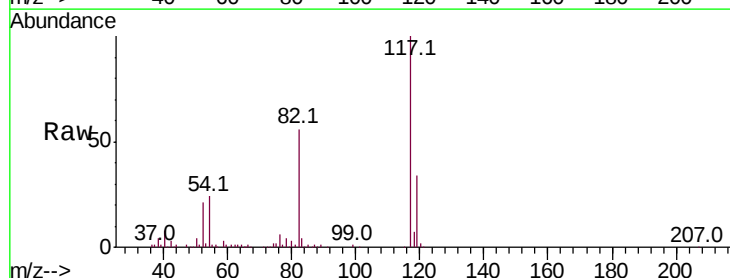
Tgt Ion: 117 Resp: 267486

Ion Ratio Lower Upper

117 100

82 56.2 46.6 69.8

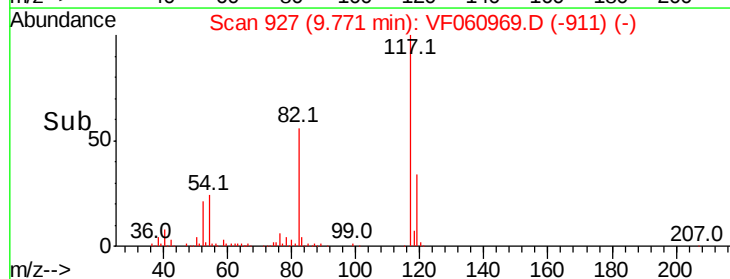
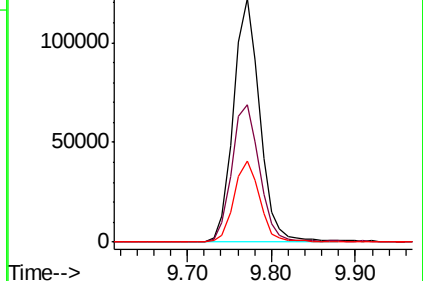
119 33.5 26.4 39.6

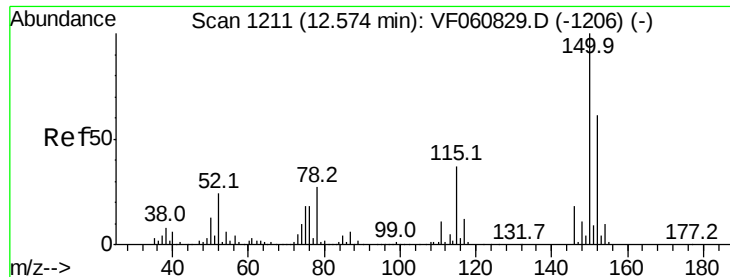


Abundance Ion 117.00 (116.70 to 117.70): VF060829.D (-924) (-)

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

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



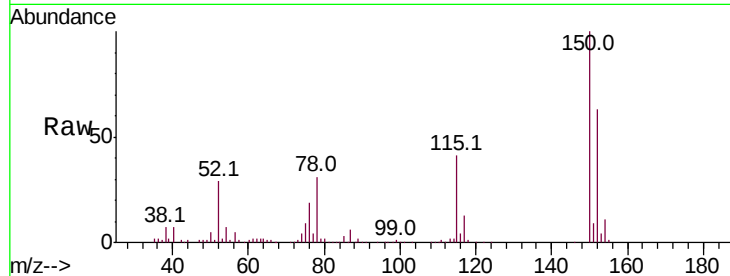


#72

1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.54 min Scan# 1208
 Delta R.T. -0.03 min
 Lab File: VF060969.D
 Acq: 10 Dec 2018 22:40

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	64.9	30.1	90.5
150	158.2	0.0	327.6

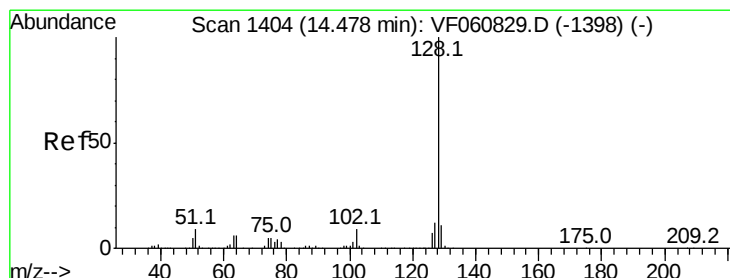
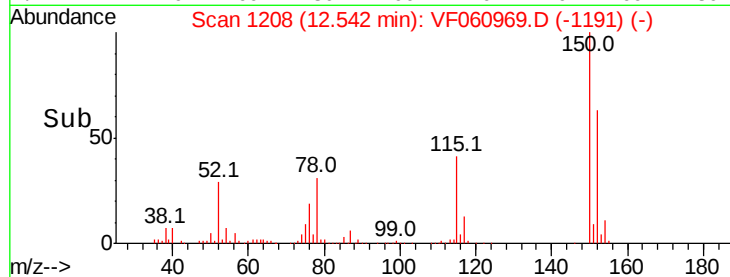
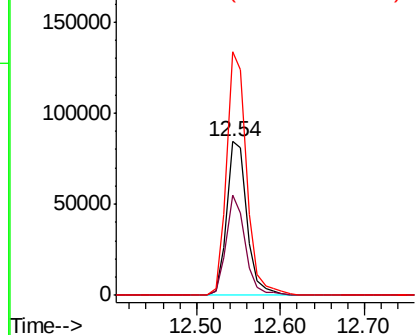


Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

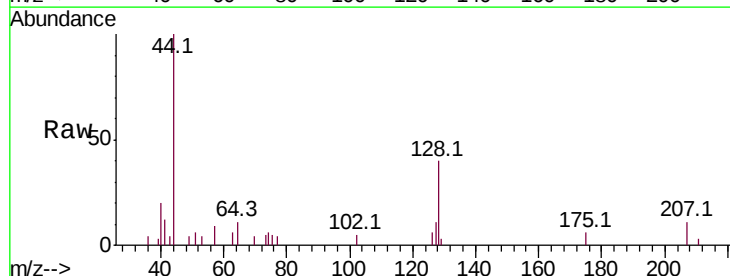
Ion 150.00 (149.70 to 150.70): V



#95

Naphthalene
 Concen: Below Cal
 RT: 14.46 min Scan# 1402
 Delta R.T. -0.02 min
 Lab File: VF060969.D
 Acq: 10 Dec 2018 22:40

Tgt Ion	Ratio	Lower	Upper
128	100		
127	27.6	9.9	14.9#
129	8.7	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

