

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122618\
 Data File : VF061187.D
 Acq On : 26 Dec 2018 14:39
 Operator : VA/AP
 Sample : J6447-07
 Misc : 4.36g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS025-0612-01

Quant Time: Dec 26 23:52:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	154967	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	247790	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	160299	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	45877	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	86439	43.37	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	86.74%	
35) Dibromofluoromethane	4.09	113	90375	45.53	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	91.06%	
50) Toluene-d8	7.53	98	172678	30.70	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	61.40%	
62) 4-Bromofluorobenzene	11.40	95	52305	20.17	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	40.34%	

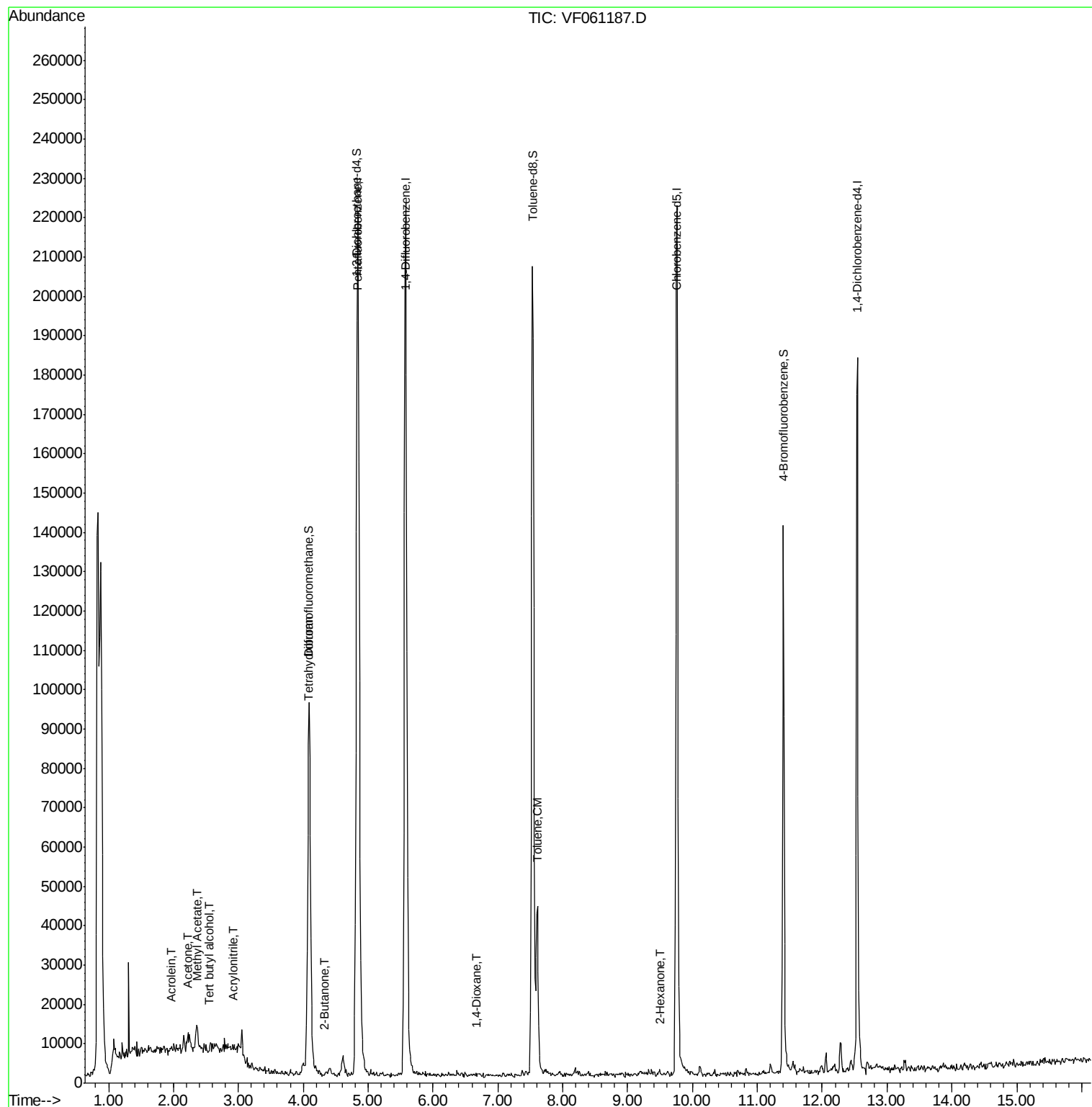
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.54	59	175	2.176	ug/l #	65
13) Acrolein	1.98	56	1068	18.376	ug/l	95
15) Acrylonitrile	2.92	53	949	5.102	ug/l #	50
16) Acetone	2.23	43	1892	4.748	ug/l #	66
18) Methyl Acetate	2.35	43	4907	5.952	ug/l #	66
20) Methylene Chloride	2.23	84	2323	Below Cal	#	62
25) 2-Butanone	4.32	43	694	1.074	ug/l #	57
29) Tetrahydrofuran	4.07	42	590	2.243	ug/l #	45
49) 1,4-Dioxane	6.67	88	120	16.403	ug/l #	1
52) Toluene	7.61	92	22481	5.280	ug/l	86
59) 2-Hexanone	9.49	43	910	1.270	ug/l	73
70) Styrene	10.78	104	86	Below Cal	#	46
78) n-propylbenzene	11.59	91	630	Below Cal	#	55
87) 1,3-Dichlorobenzene	12.46	146	243	Below Cal	#	25

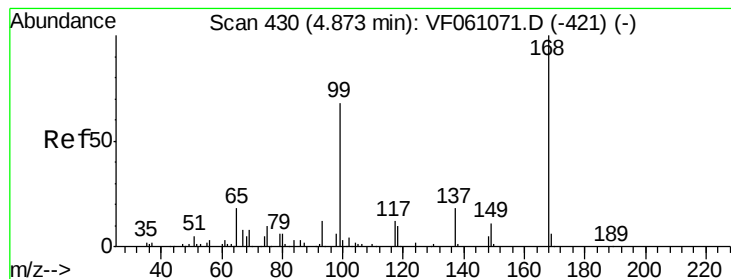
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

Instrument :

MSVOA_F

ClientSampleId :

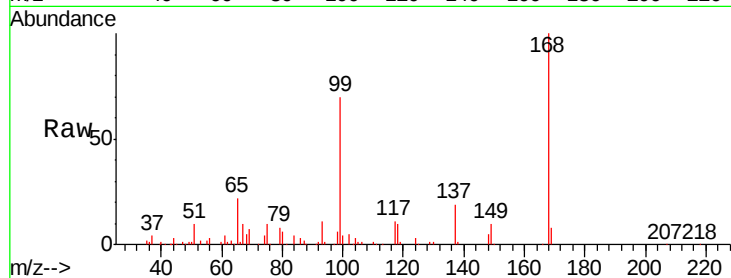
P001-SS025-0612-01

Tgt Ion:168 Resp: 154967

Ion Ratio Lower Upper

168 100

99 70.5 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

60000

50000

40000

30000

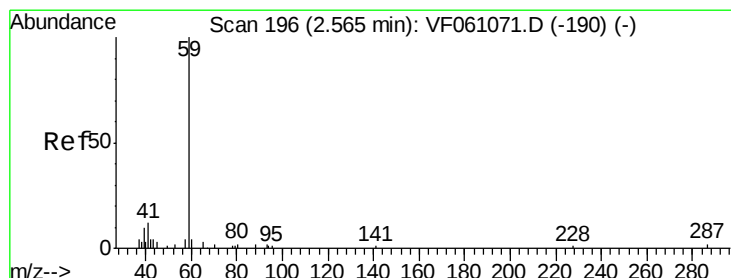
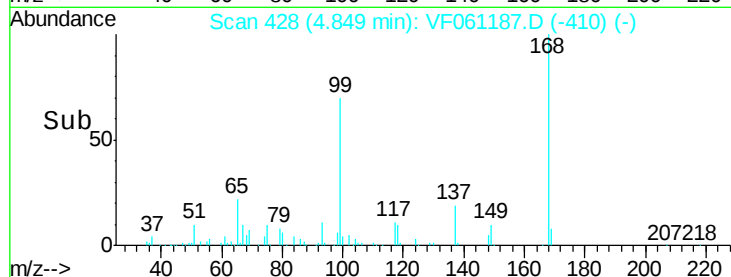
20000

10000

0

4.70 4.80 4.90 5.00

Time-->



#11

Tert butyl alcohol

Concen: 2.176 ug/l

RT: 2.54 min Scan# 194

Delta R.T. -0.02 min

Lab File: VF061187.D

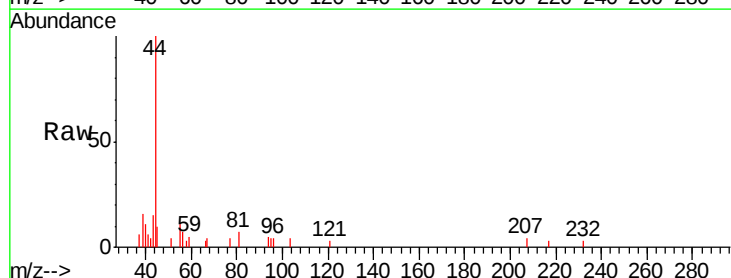
Acq: 26 Dec 2018 14:39

Tgt Ion: 59 Resp: 175

Ion Ratio Lower Upper

59 100

57 0.0 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

150

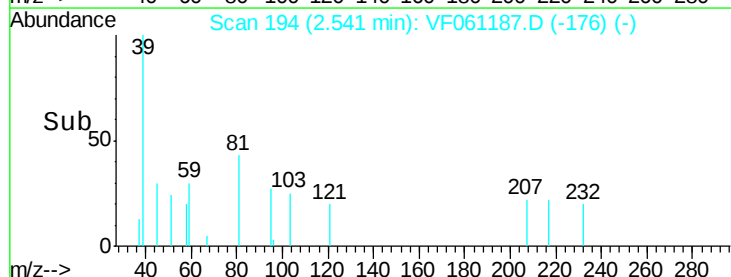
100

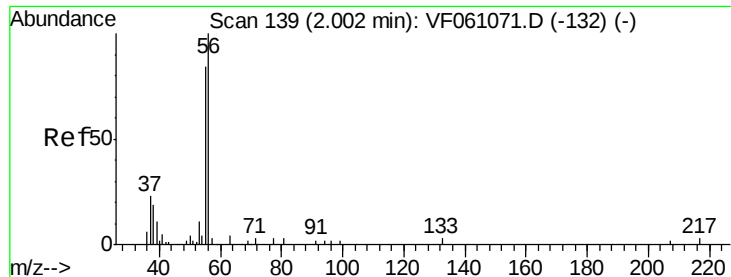
50

0

2.50 2.52 2.54 2.56

Time-->





#13

Acrolein

Concen: 18.376 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.02 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

Instrument :

MSVOA_F

ClientSampleId :

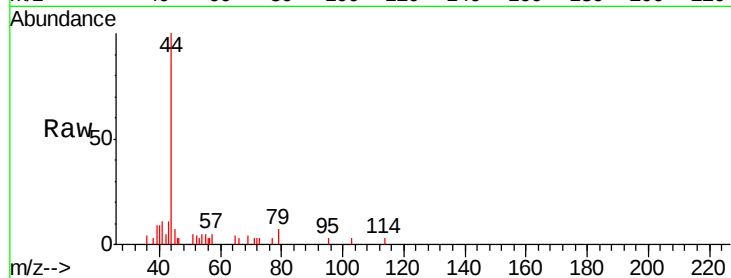
P001-SS025-0612-01

Tgt Ion: 56 Resp: 1068

Ion Ratio Lower Upper

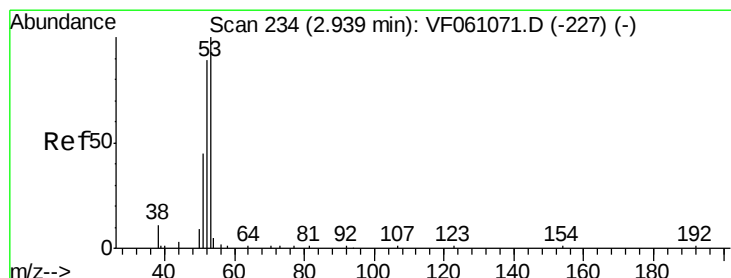
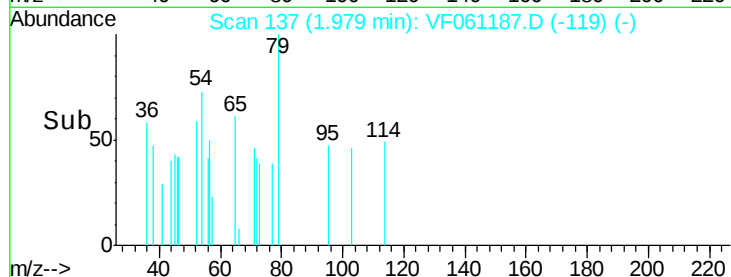
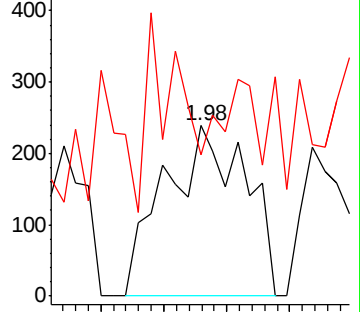
56 100

55 82.8 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 5.102 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.02 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

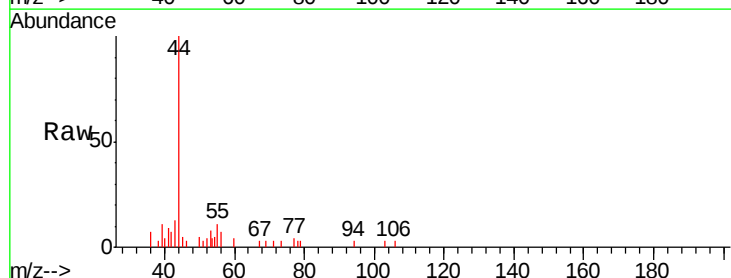
Tgt Ion: 53 Resp: 949

Ion Ratio Lower Upper

53 100

52 30.2 71.3 106.9#

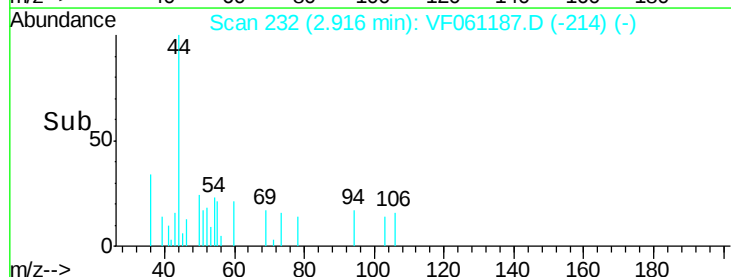
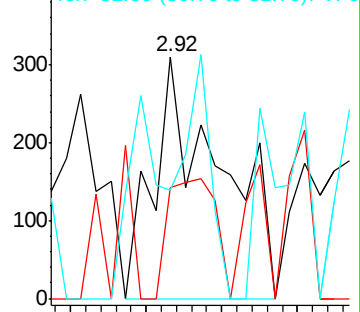
51 29.3 36.8 55.2#

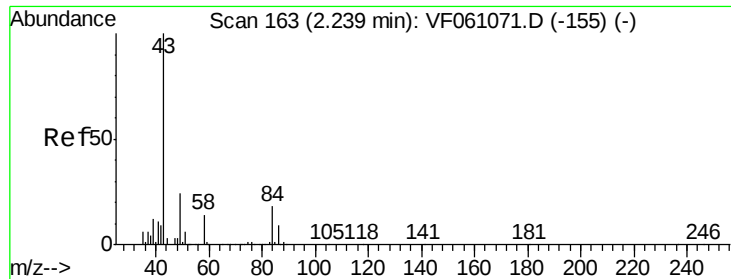


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 4.748 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

Instrument :

MSVOA_F

ClientSampleId :

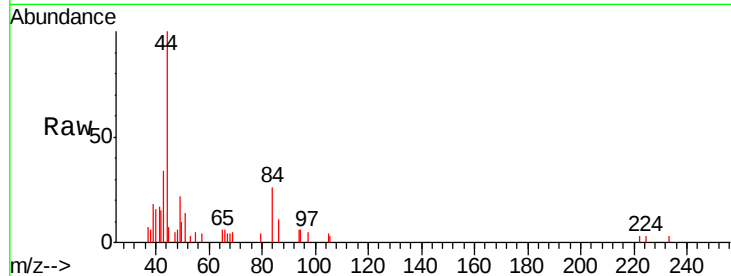
P001-SS025-0612-01

Tgt Ion: 43 Resp: 1892

Ion Ratio Lower Upper

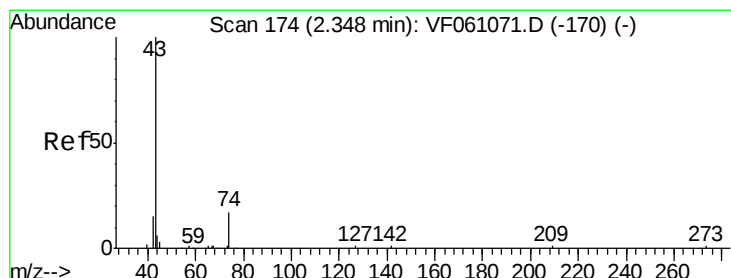
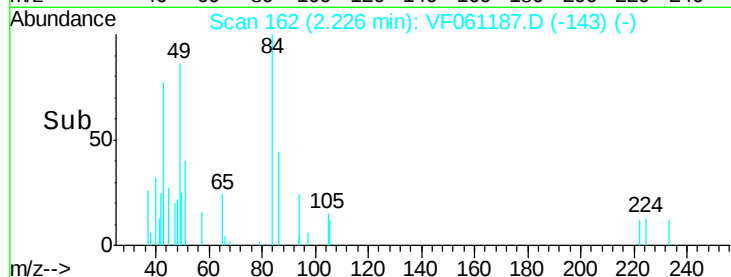
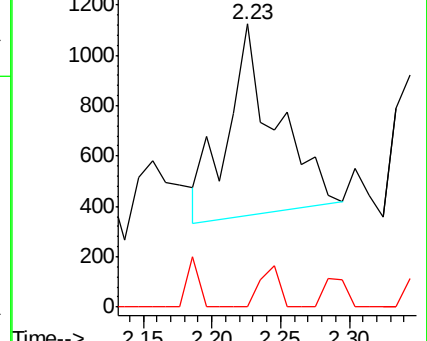
43 100

58 0.0 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 5.952 ug/l

RT: 2.35 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF061187.D

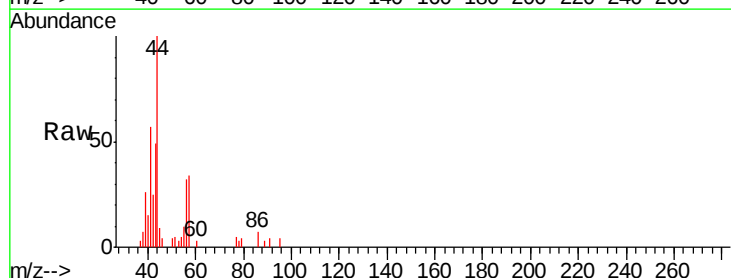
Acq: 26 Dec 2018 14:39

Tgt Ion: 43 Resp: 4907

Ion Ratio Lower Upper

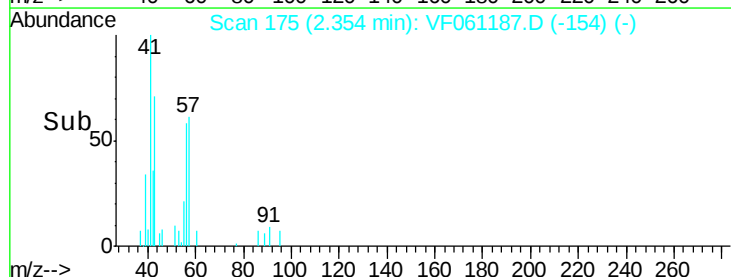
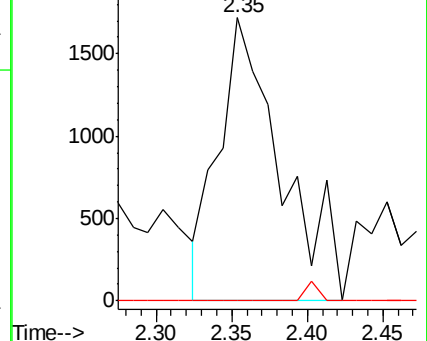
43 100

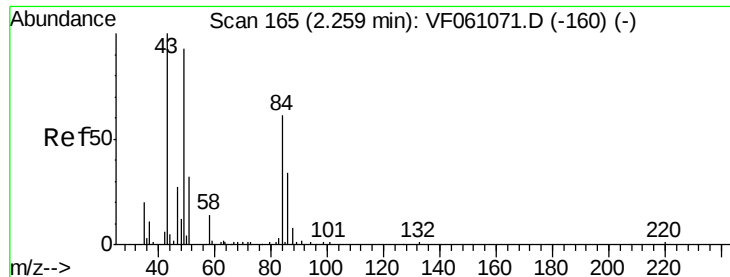
74 0.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.23 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

Instrument :

MSVOA_F

ClientSampleId :

P001-SS025-0612-01

Tgt Ion: 84 Resp: 2323

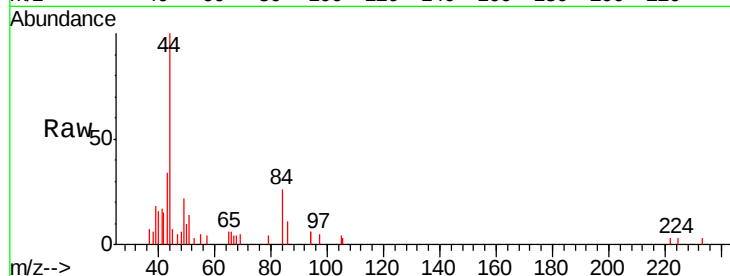
Ion Ratio Lower Upper

84 100

49 85.6 129.4 194.2#

51 54.3 44.0 66.0

86 43.9 46.3 69.5#

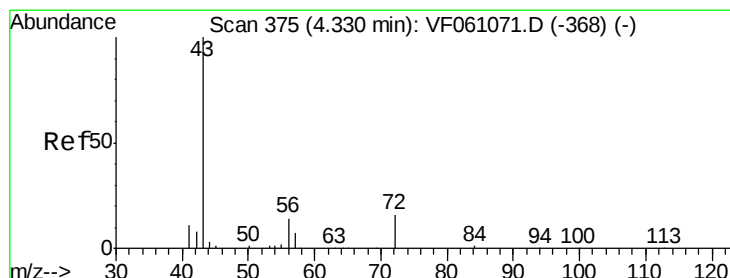
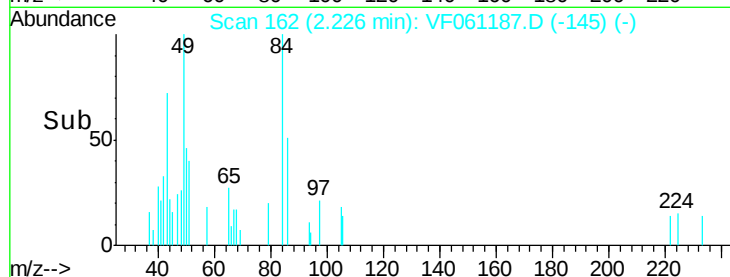
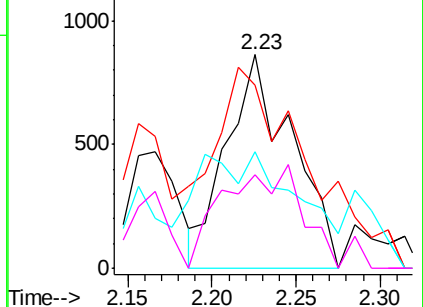


Abundance Ion 84.00 (83.70 to 84.70): VF0

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



#25

2-Butanone

Concen: 1.074 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.01 min

Lab File: VF061187.D

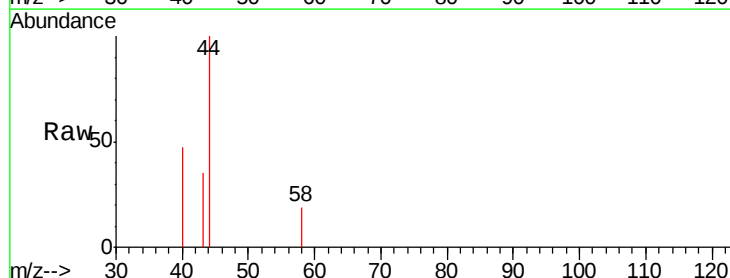
Acq: 26 Dec 2018 14:39

Tgt Ion: 43 Resp: 694

Ion Ratio Lower Upper

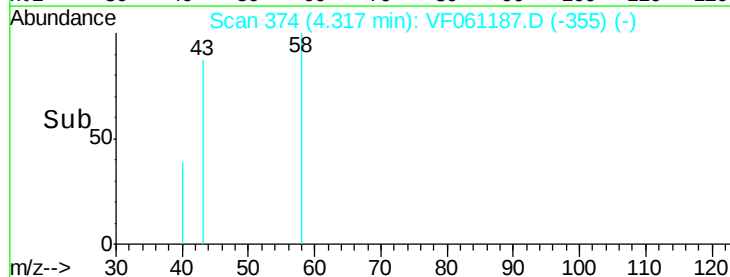
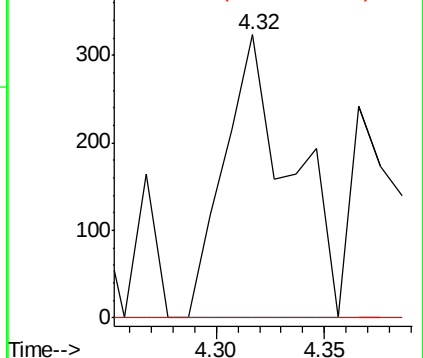
43 100

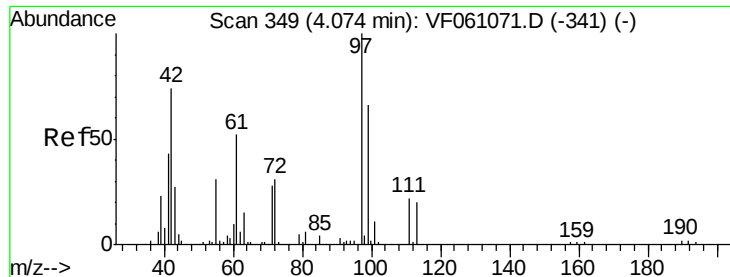
72 0.0 15.6 23.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.243 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.00 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

Instrument :

MSVOA_F

ClientSampleId :

P001-SS025-0612-01

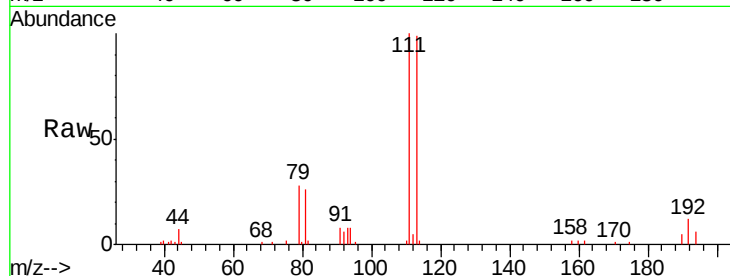
Tgt Ion: 42 Resp: 590

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

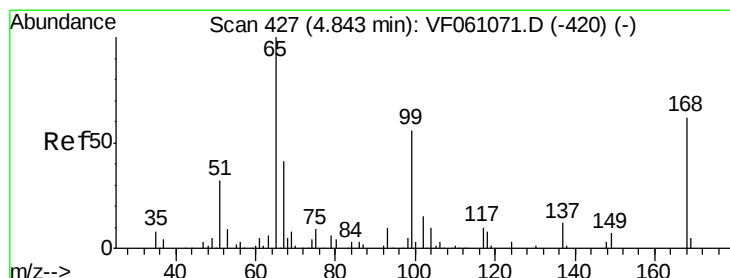
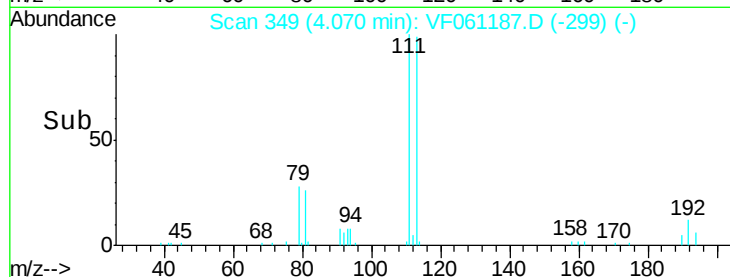
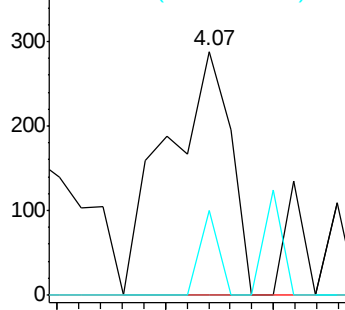
71 10.0 29.7 44.5#



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: 43.368 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.02 min

Lab File: VF061187.D

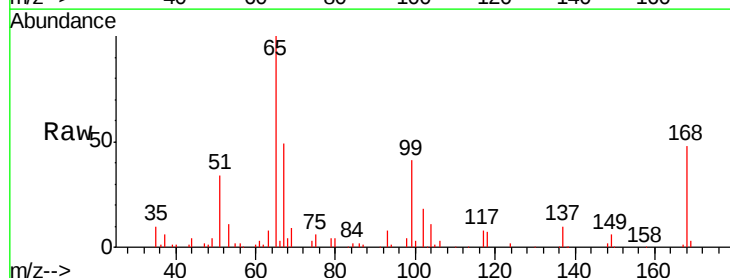
Acq: 26 Dec 2018 14:39

Tgt Ion: 65 Resp: 86439

Ion Ratio Lower Upper

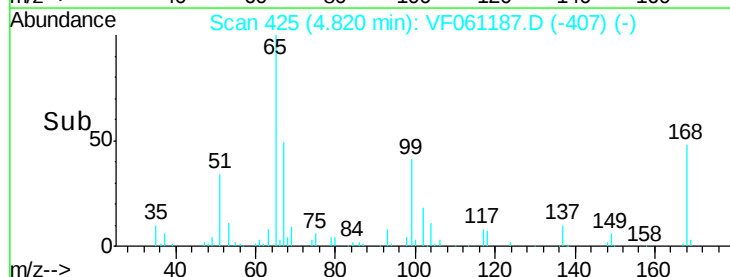
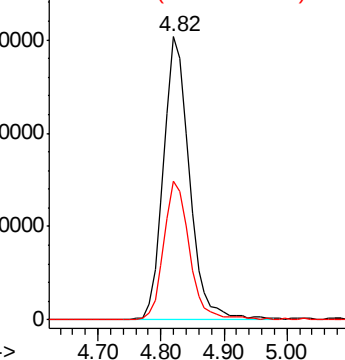
65 100

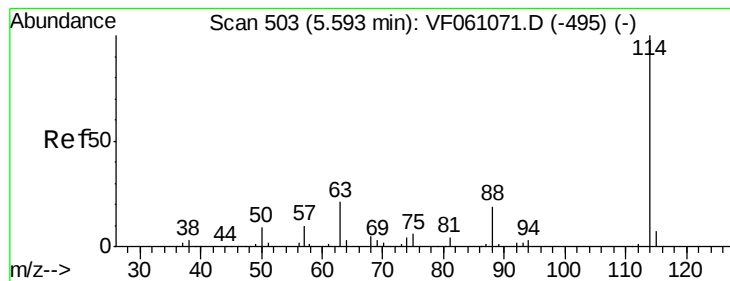
67 49.2 0.0 94.6



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: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

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ClientSampleId :

P001-SS025-0612-01

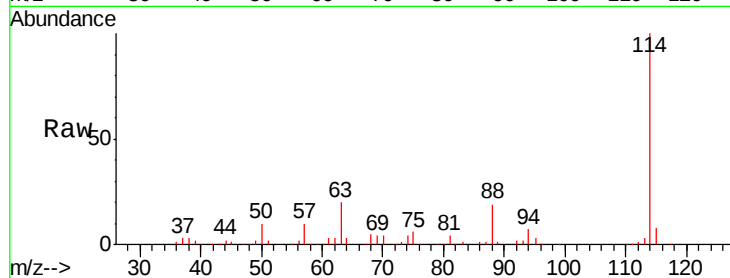
Tgt Ion:114 Resp: 247790

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.6

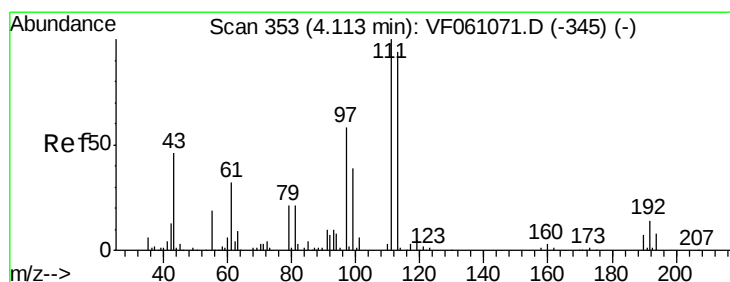
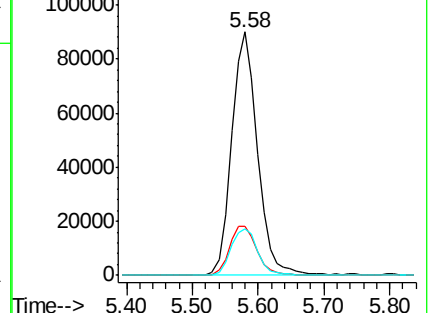
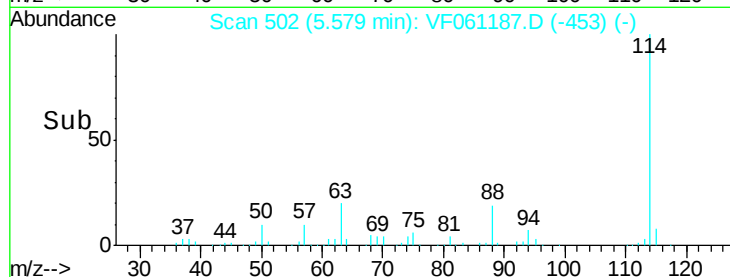
88 19.2 0.0 38.0



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: 45.530 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

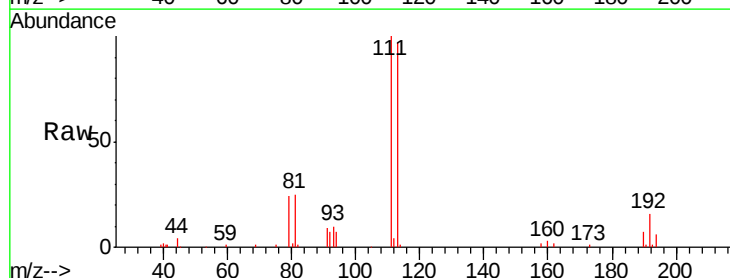
Tgt Ion:113 Resp: 90375

Ion Ratio Lower Upper

113 100

111 102.7 85.2 127.8

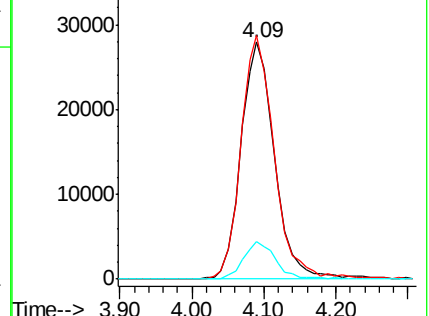
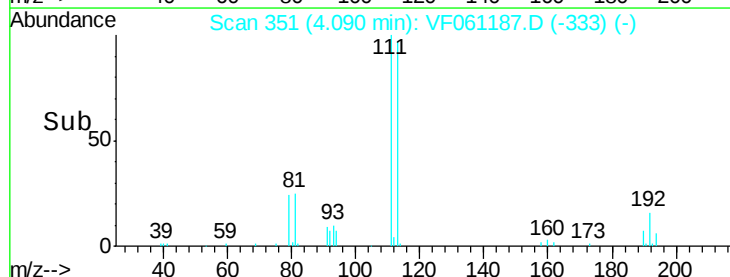
192 16.8 12.8 19.2

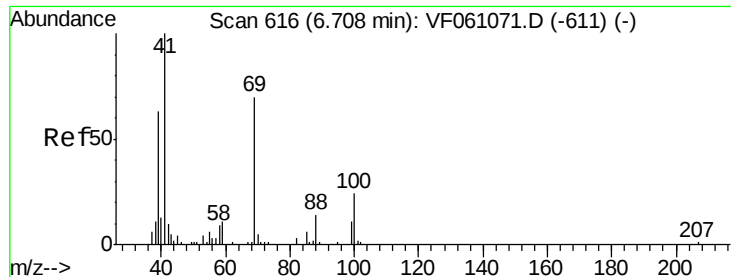


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

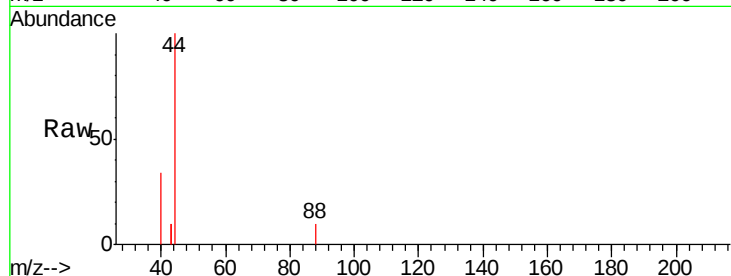




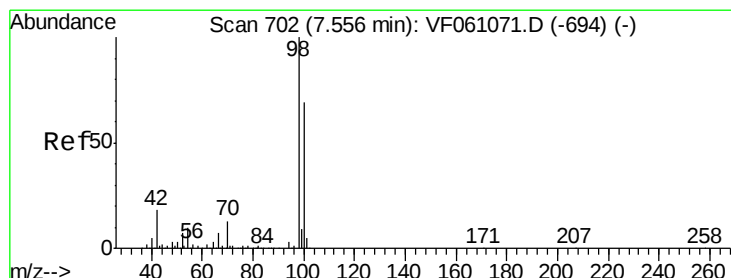
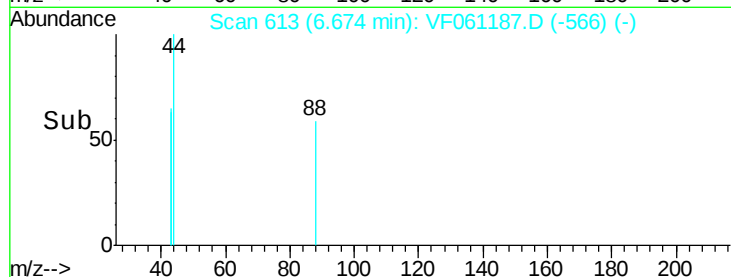
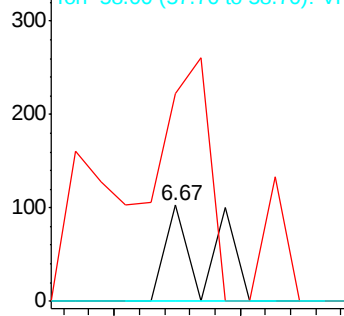
#49
1,4-Dioxane
Concen: 16.403 ug/l
RT: 6.67 min Scan# 613
Delta R.T. -0.03 min
Lab File: VF061187.D
Acq: 26 Dec 2018 14:39

Instrument :
MSVOA_F
ClientSampleId :
P001-SS025-0612-01

Tgt Ion: 88 Resp: 120
Ion Ratio Lower Upper
88 100
43 216.5 33.3 49.9#
58 0.0 53.2 79.8#

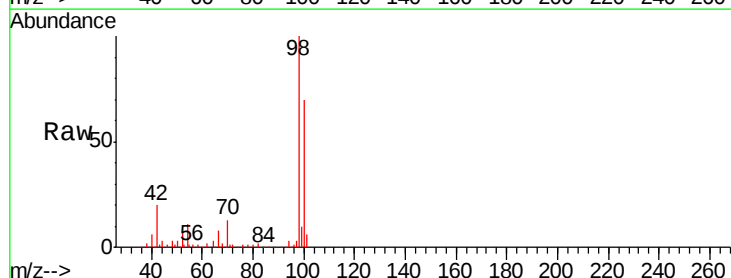


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

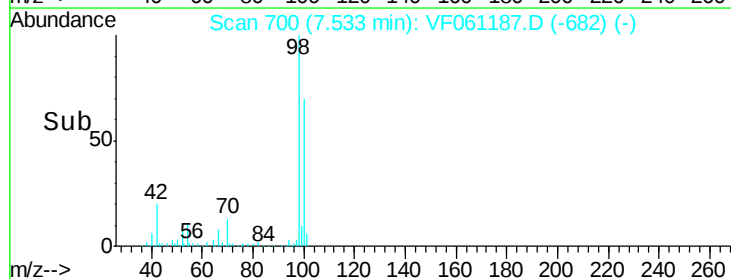
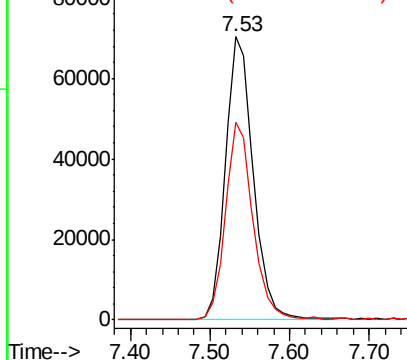


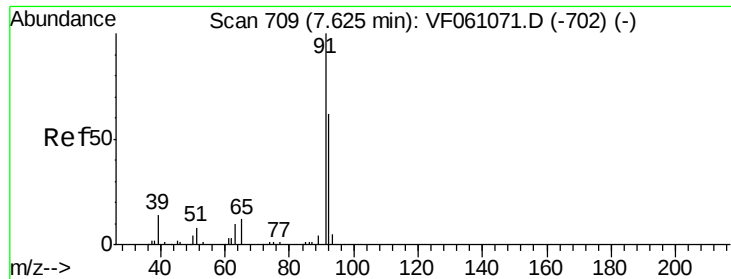
#50
Toluene-d8
Concen: 30.698 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF061187.D
Acq: 26 Dec 2018 14:39

Tgt Ion: 98 Resp: 172678
Ion Ratio Lower Upper
98 100
100 69.9 55.3 82.9



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





#52

Toluene

Concen: 5.280 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.01 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

Instrument :

MSVOA_F

ClientSampleId :

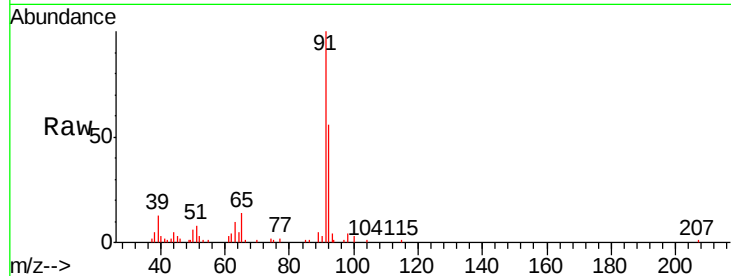
P001-SS025-0612-01

Tgt Ion: 92 Resp: 22481

Ion Ratio Lower Upper

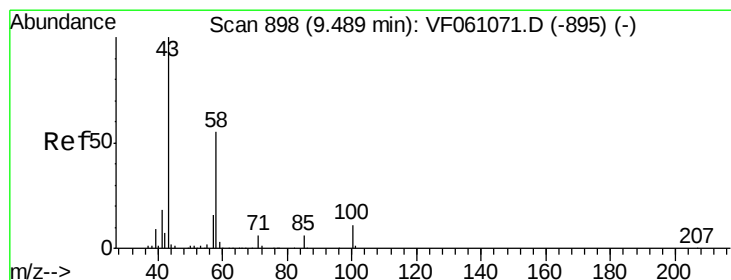
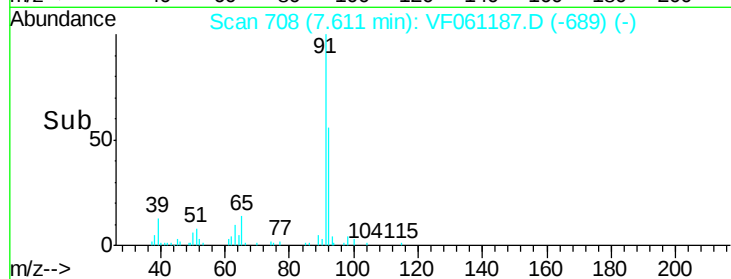
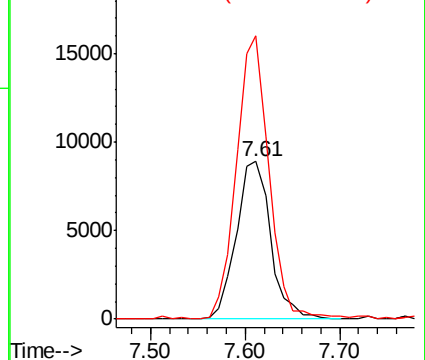
92 100

91 179.4 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 1.270 ug/l

RT: 9.49 min Scan# 898

Delta R.T. -0.00 min

Lab File: VF061187.D

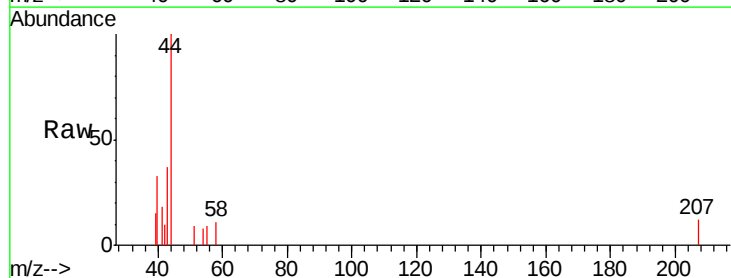
Acq: 26 Dec 2018 14:39

Tgt Ion: 43 Resp: 910

Ion Ratio Lower Upper

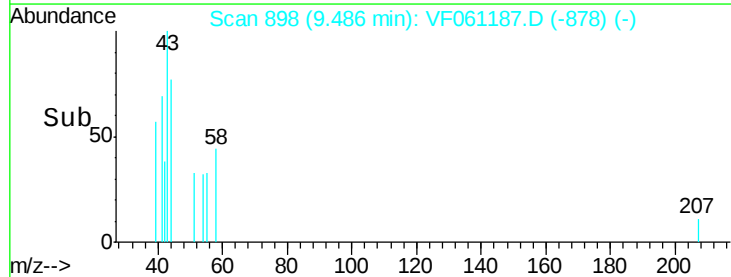
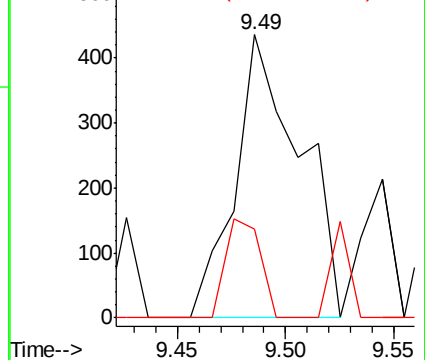
43 100

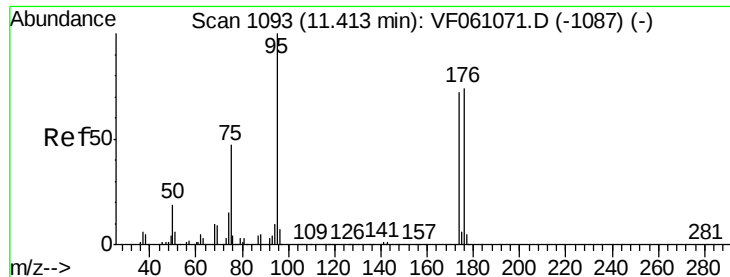
58 31.2 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 20.170 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

Instrument :

MSVOA_F

ClientSampleId :

P001-SS025-0612-01

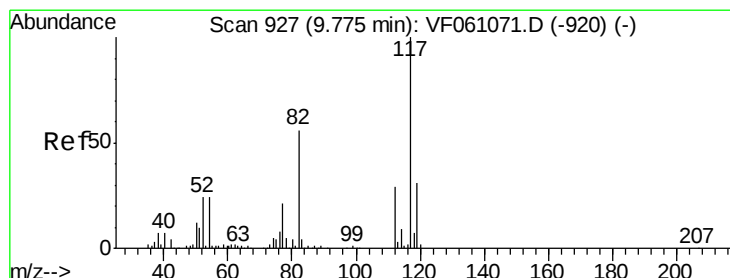
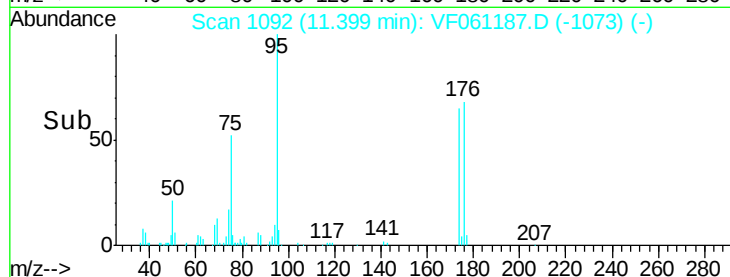
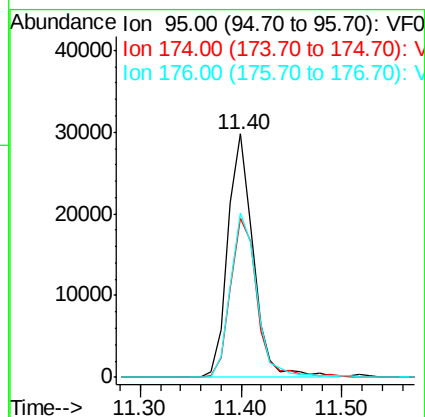
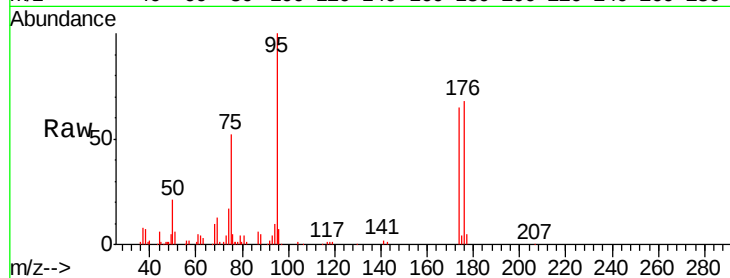
Tgt Ion: 95 Resp: 52305

Ion Ratio Lower Upper

95 100

174 65.2 0.0 143.8

176 67.5 0.0 147.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.01 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

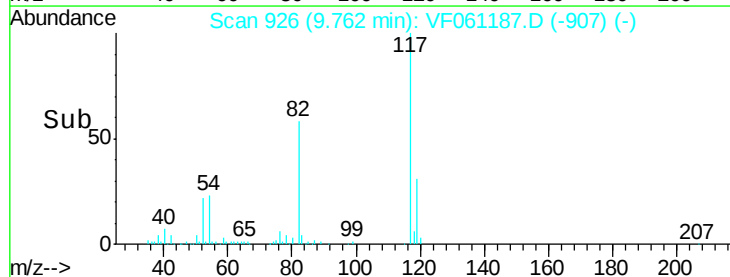
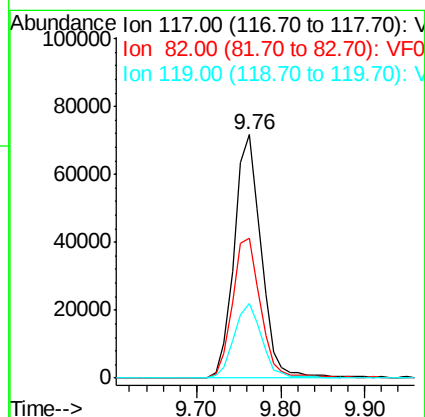
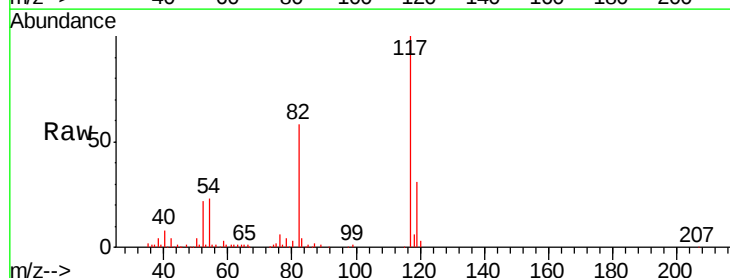
Tgt Ion: 117 Resp: 160299

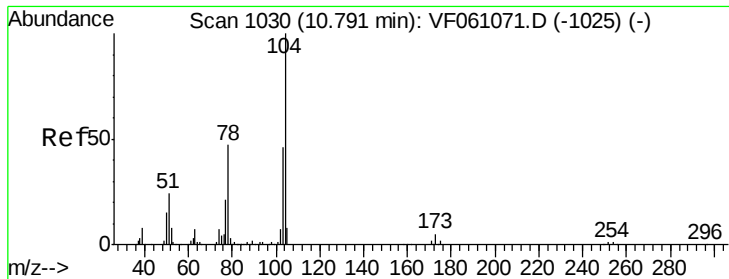
Ion Ratio Lower Upper

117 100

82 57.6 45.0 67.4

119 30.7 24.8 37.2





#70

Styrene

Concen: Below Cal

RT: 10.78 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

Instrument :

MSVOA_F

ClientSampleId :

P001-SS025-0612-01

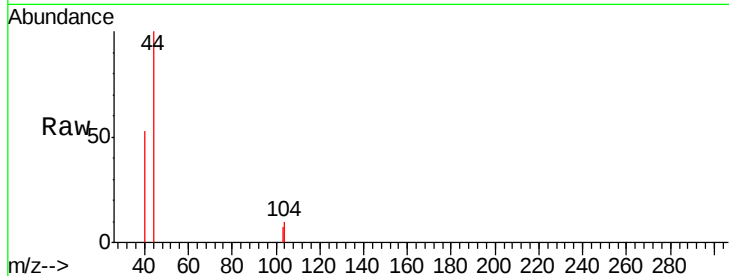
Tgt Ion:104 Resp: 86

Ion Ratio Lower Upper

104 100

78 0.0 38.4 57.6#

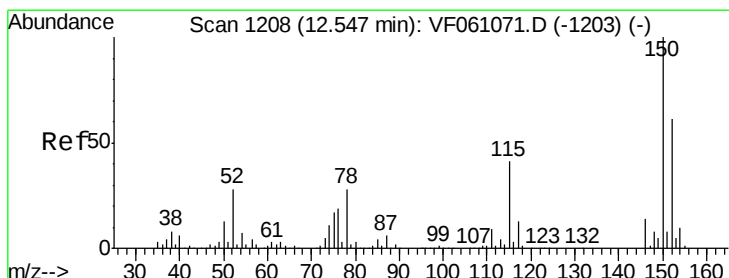
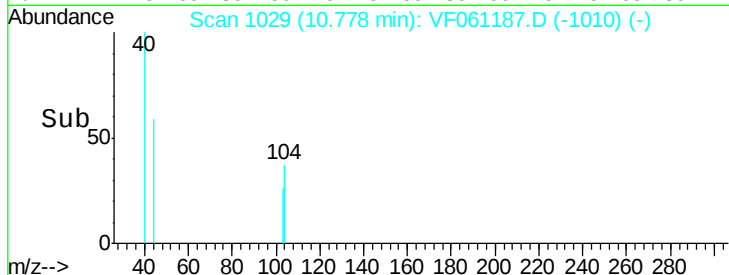
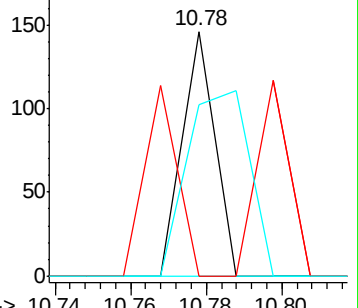
103 69.9 37.0 55.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061187.D

Acq: 26 Dec 2018 14:39

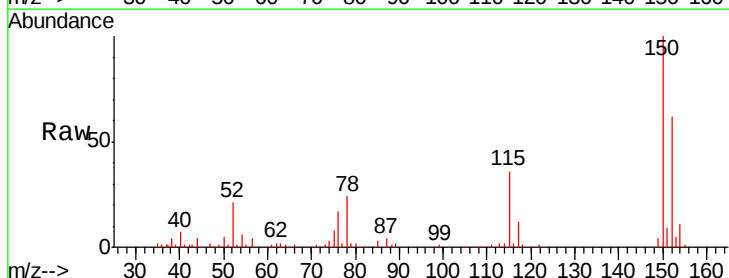
Tgt Ion:152 Resp: 45877

Ion Ratio Lower Upper

152 100

115 58.3 33.3 99.9

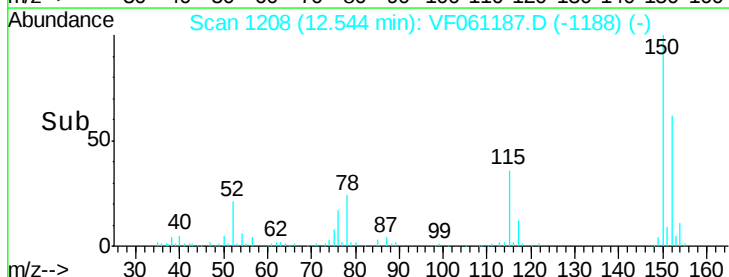
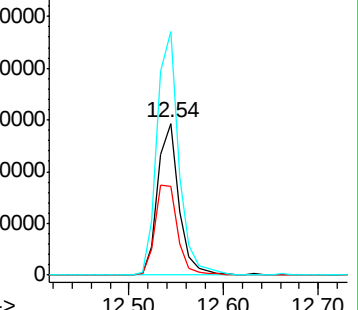
150 160.5 0.0 328.2

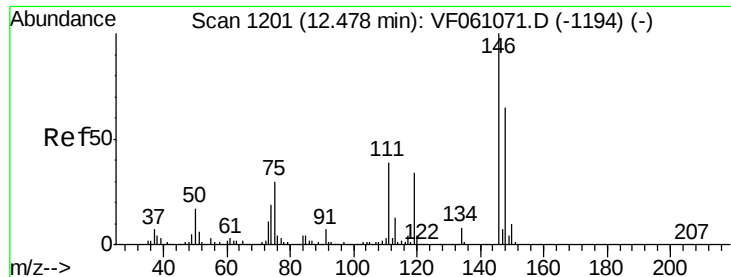


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF061187.D
 Acq: 26 Dec 2018 14:39

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS025-0612-01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.3	57.9#
148	0.0	32.4	97.2#

