

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122618\
 Data File : VF061188.D
 Acq On : 26 Dec 2018 15:08
 Operator : VA/AP
 Sample : J6447-08
 Misc : 4.71g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS025-1218-01

Quant Time: Dec 26 23:52:21 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	137722	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	233825	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	188688	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	67155	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	91331	51.56	ug/l	-0.01
Spiked Amount			Recovery	=	103.12%	
35) Dibromofluoromethane	4.09	113	99895	53.33	ug/l	-0.02
Spiked Amount			Recovery	=	106.66%	
50) Toluene-d8	7.54	98	210296	39.62	ug/l	-0.02
Spiked Amount			Recovery	=	79.24%	
62) 4-Bromofluorobenzene	11.40	95	79605	32.53	ug/l	-0.01
Spiked Amount			Recovery	=	65.06%	

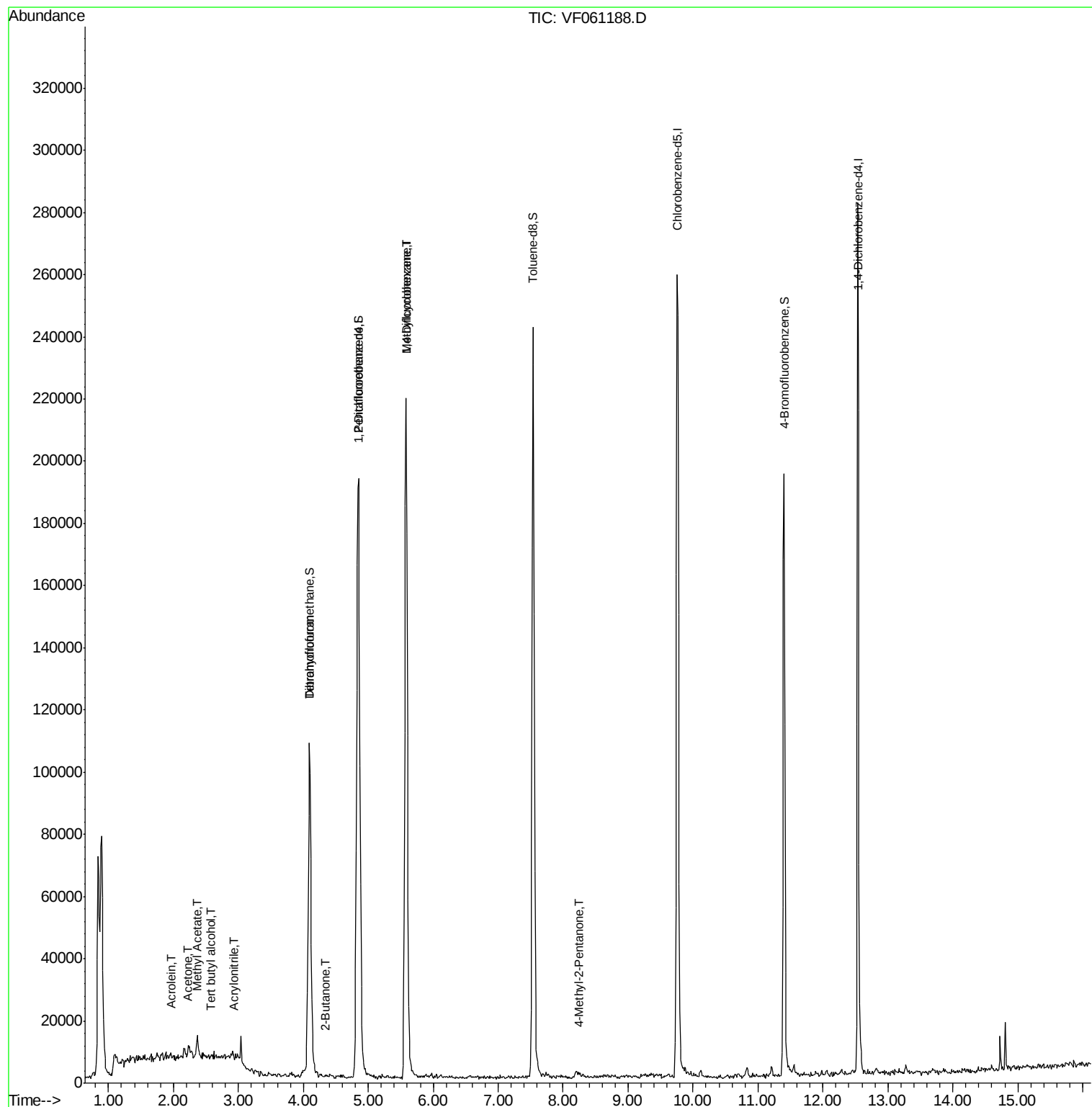
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	107	1.497	ug/l #	1
13) Acrolein	1.97	56	179	3.466	ug/l	88
15) Acrylonitrile	2.94	53	613	3.709	ug/l #	14
16) Acetone	2.24	43	1394	3.937	ug/l	99
18) Methyl Acetate	2.36	43	4037	5.510	ug/l #	90
20) Methylene Chloride	2.27	84	1890	Below Cal	#	78
25) 2-Butanone	4.34	43	802	1.396	ug/l #	57
29) Tetrahydrofuran	4.09	42	544	2.327	ug/l #	47
39) Methylcyclohexane	5.58	83	2594	1.024	ug/l #	44
51) 4-Methyl-2-Pentanone	8.25	43	1512	1.618	ug/l #	38
70) Styrene	10.77	104	160	Below Cal	#	30
78) n-propylbenzene	11.58	91	675	Below Cal	#	55
87) 1,3-Dichlorobenzene	12.47	146	60	Below Cal	#	5

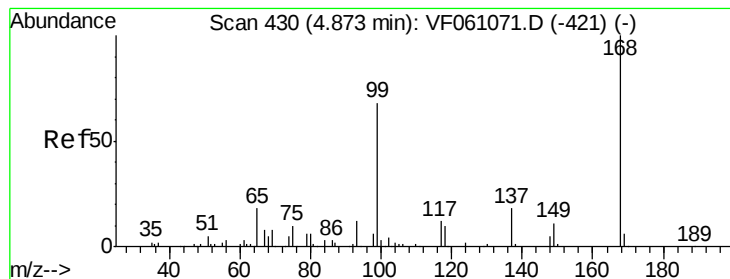
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061188.D

Acq: 26 Dec 2018 15:08

Instrument :

MSVOA_F

ClientSampleId :

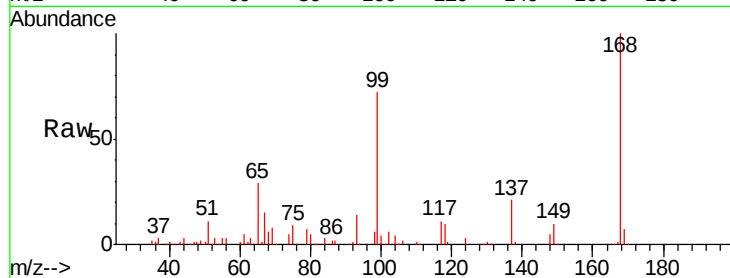
P001-SS025-1218-01

Tgt Ion: 168 Resp: 137722

Ion Ratio Lower Upper

168 100

99 72.1 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

50000

40000

30000

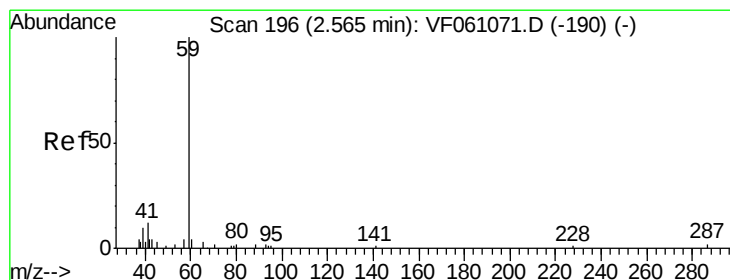
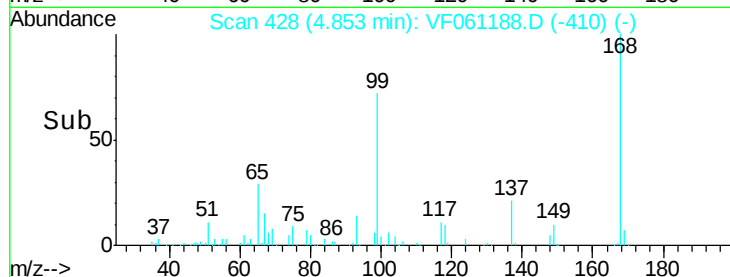
20000

10000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#11

Tert butyl alcohol

Concen: 1.497 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.02 min

Lab File: VF061188.D

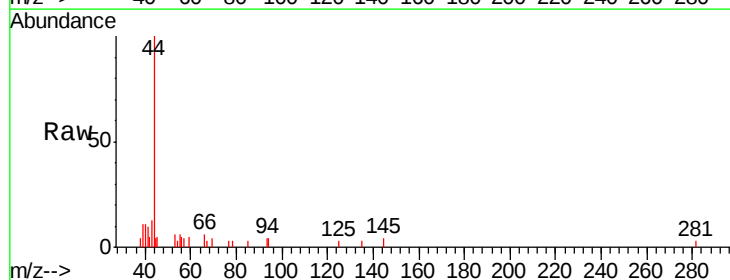
Acq: 26 Dec 2018 15:08

Tgt Ion: 59 Resp: 107

Ion Ratio Lower Upper

59 100

57 76.1 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.58

200

150

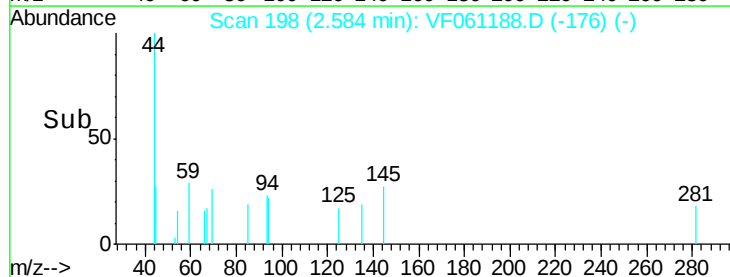
100

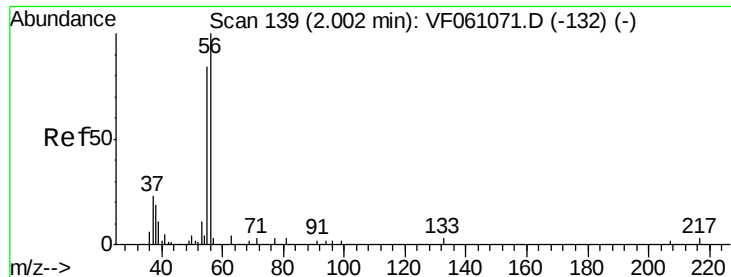
50

0

2.56 2.58 2.60

Time-->





#13

Acrolein

Concen: 3.466 ug/l

RT: 1.97 min Scan# 136

Delta R.T. -0.03 min

Lab File: VF061188.D

Acq: 26 Dec 2018 15:08

Instrument :

MSVOA_F

ClientSampleId :

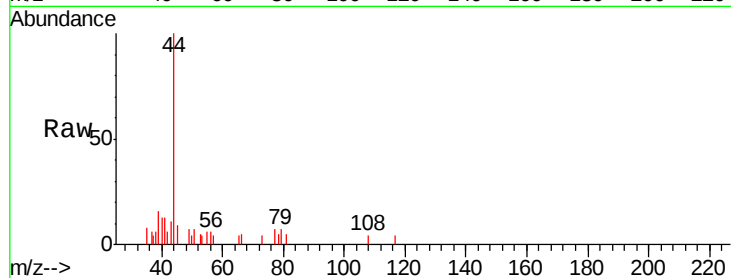
P001-SS025-1218-01

Tgt Ion: 56 Resp: 179

Ion Ratio Lower Upper

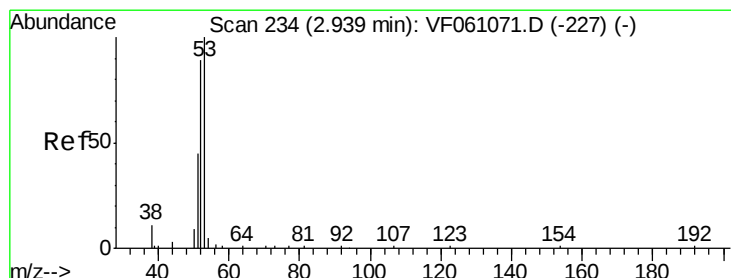
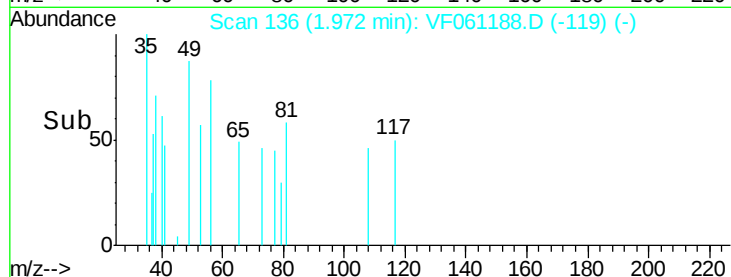
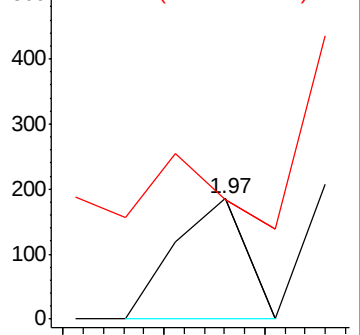
56 100

55 98.9 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: 3.709 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.00 min

Lab File: VF061188.D

Acq: 26 Dec 2018 15:08

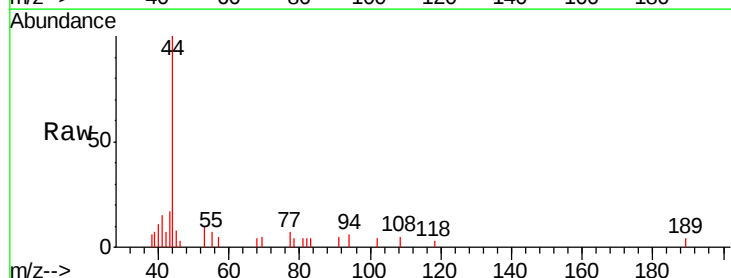
Tgt Ion: 53 Resp: 613

Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

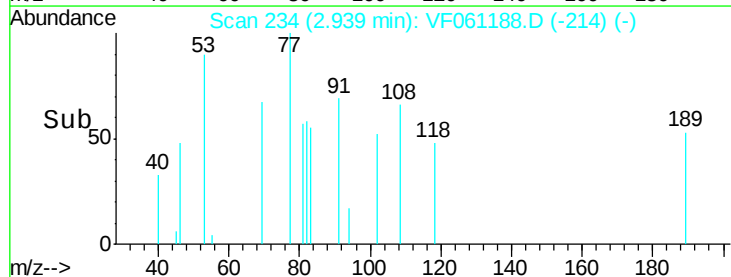
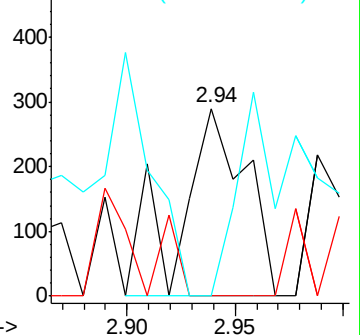
51 0.0 36.8 55.2#

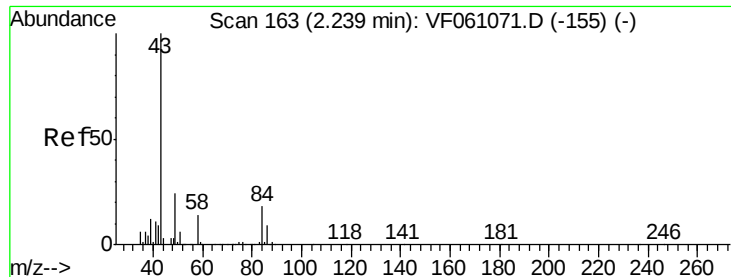


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 3.937 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061188.D

Acq: 26 Dec 2018 15:08

Instrument :

MSVOA_F

ClientSampleId :

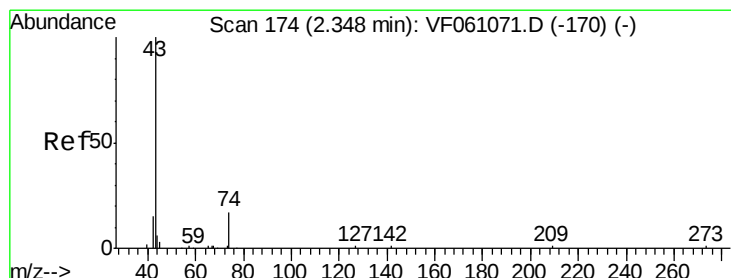
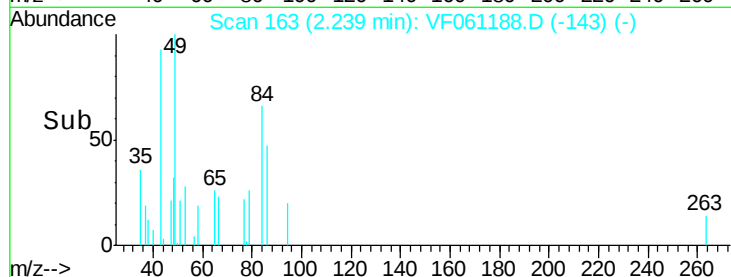
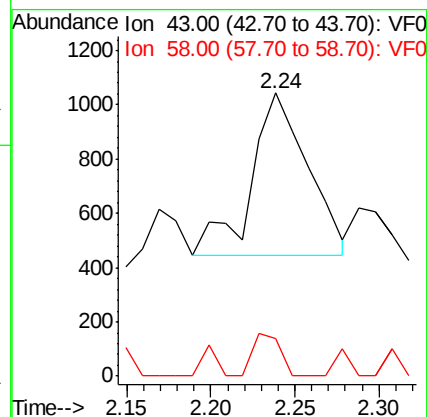
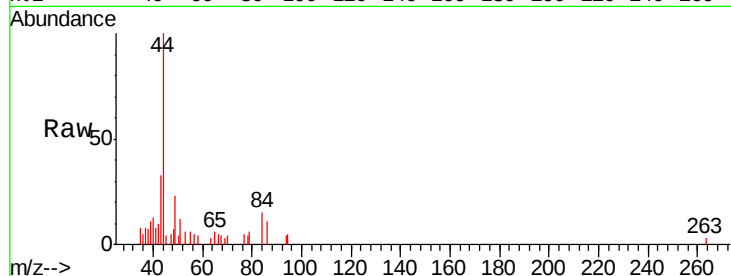
P001-SS025-1218-01

Tgt Ion: 43 Resp: 1394

Ion Ratio Lower Upper

43 100

58 13.5 11.1 16.7



#18

Methyl Acetate

Concen: 5.510 ug/l

RT: 2.36 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF061188.D

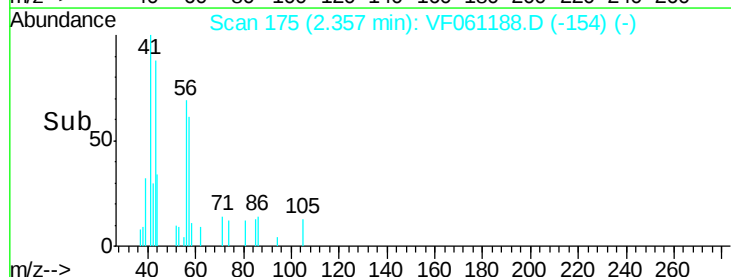
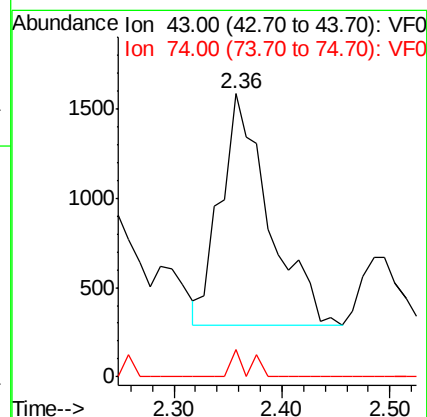
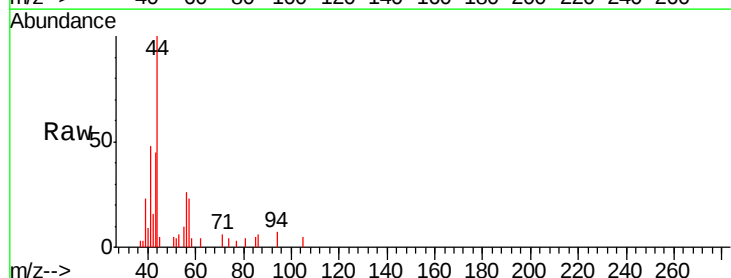
Acq: 26 Dec 2018 15:08

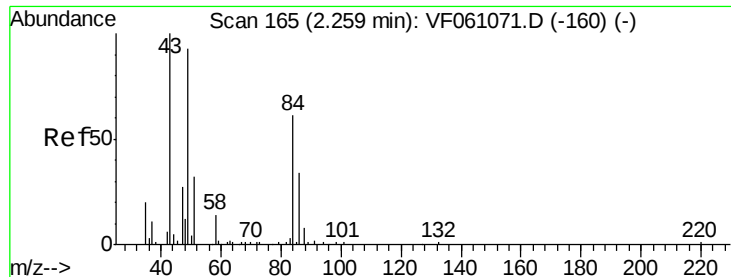
Tgt Ion: 43 Resp: 4037

Ion Ratio Lower Upper

43 100

74 9.8 11.0 16.6#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.27 min Scan# 166

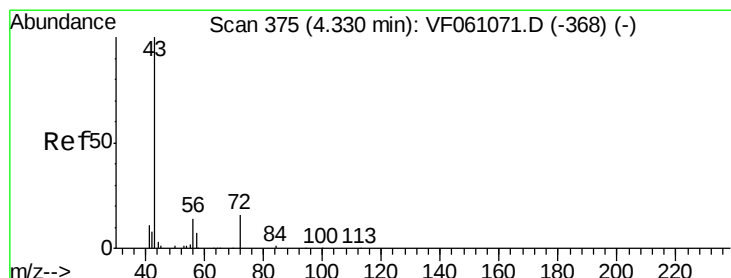
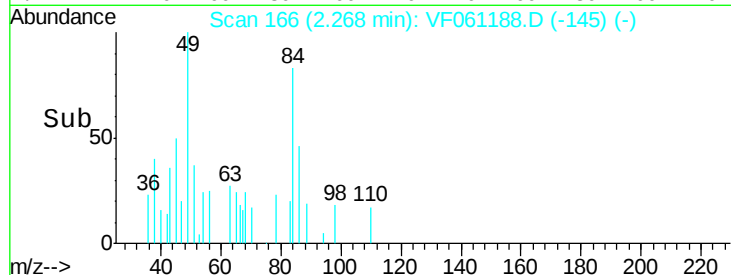
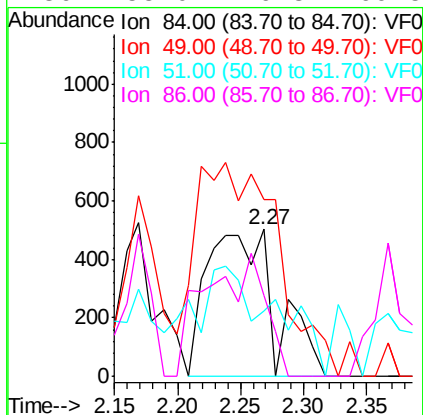
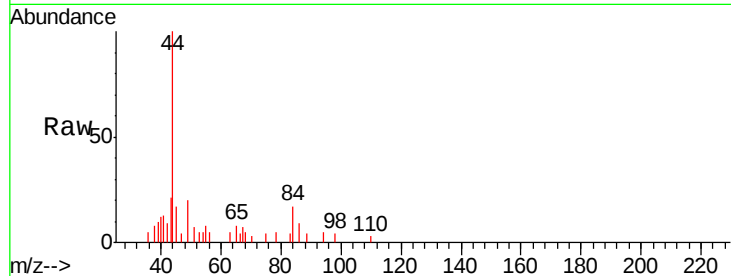
Delta R.T. 0.01 min

Lab File: VF061188.D

Acq: 26 Dec 2018 15:08

Instrument :
MSVOA_F
ClientSampleId :
P001-SS025-1218-01

Tgt Ion:	84	Resp:	1890
Ion	Ratio	Lower	Upper
84	100		
49	120.3	129.4	194.2#
51	44.8	44.0	66.0
86	55.0	46.3	69.5



#25

2-Butanone

Concen: 1.396 ug/l

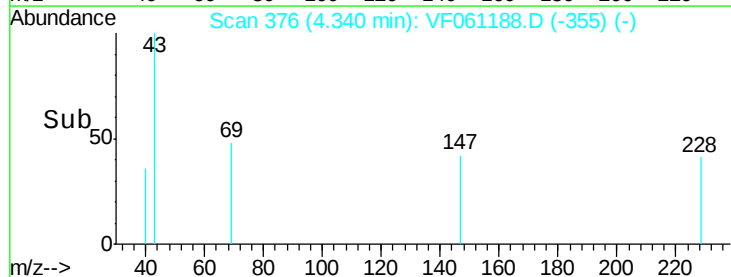
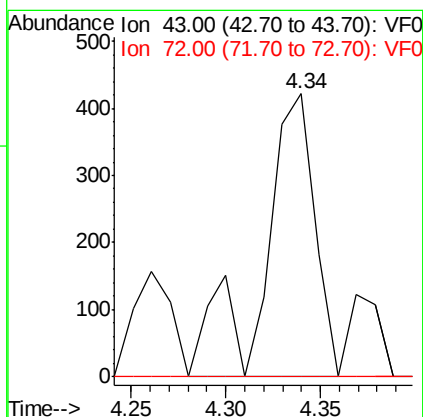
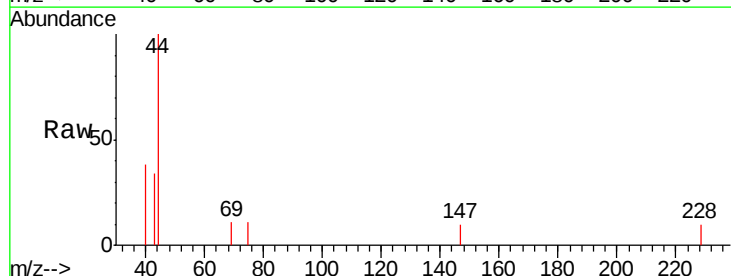
RT: 4.34 min Scan# 376

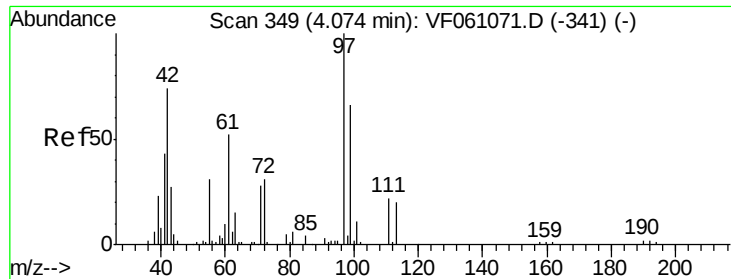
Delta R.T. 0.01 min

Lab File: VF061188.D

Acq: 26 Dec 2018 15:08

Tgt Ion:	43	Resp:	802
Ion	Ratio	Lower	Upper
43	100		
72	0.0	15.6	23.4#





#29

Tetrahydrofuran

Concen: 2.327 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF061188.D

Acq: 26 Dec 2018 15:08

Instrument :

MSVOA_F

ClientSampleId :

P001-SS025-1218-01

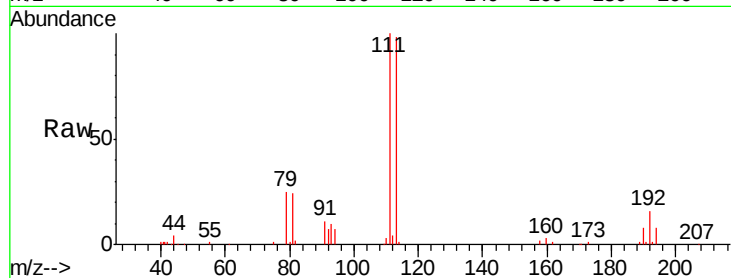
Tgt Ion: 42 Resp: 544

Ion Ratio Lower Upper

42 100

72 12.1 31.8 47.8#

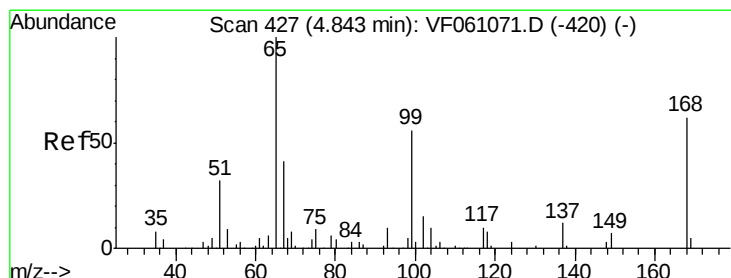
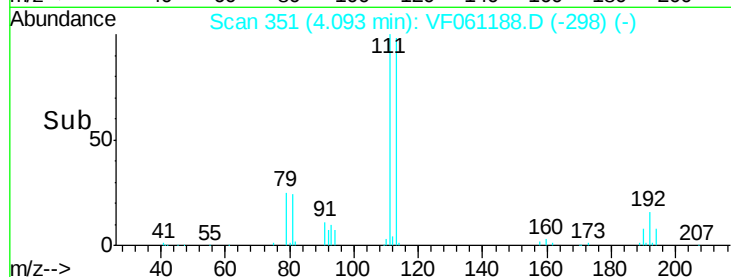
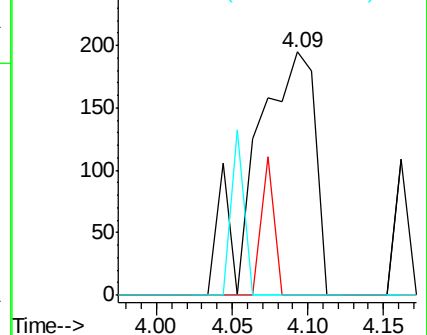
71 0.0 29.7 44.5#



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: 51.560 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF061188.D

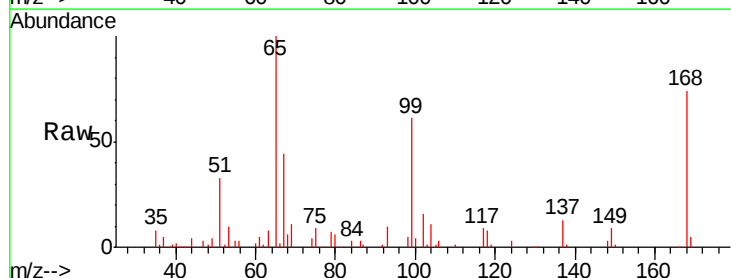
Acq: 26 Dec 2018 15:08

Tgt Ion: 65 Resp: 91331

Ion Ratio Lower Upper

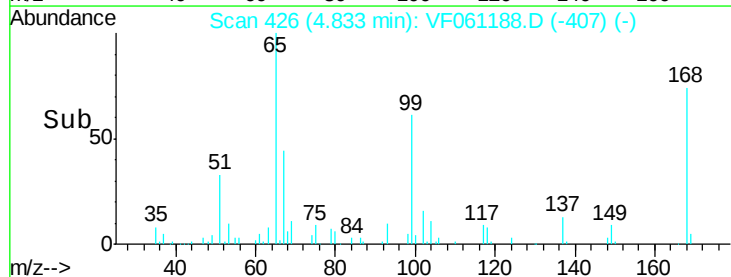
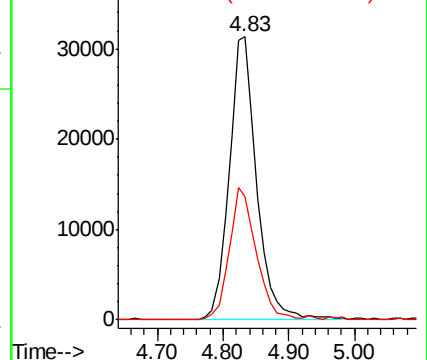
65 100

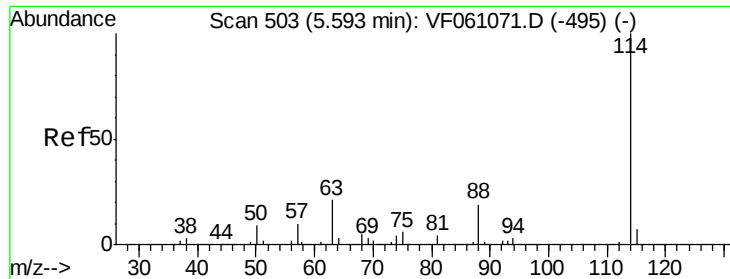
67 43.8 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

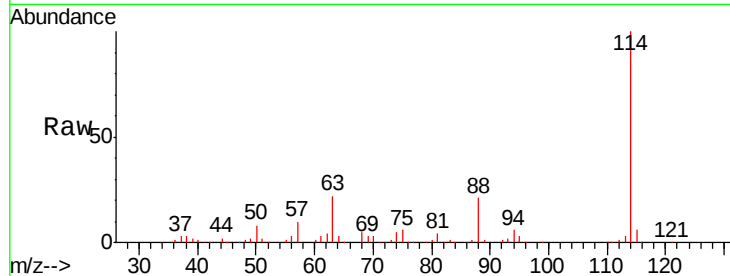




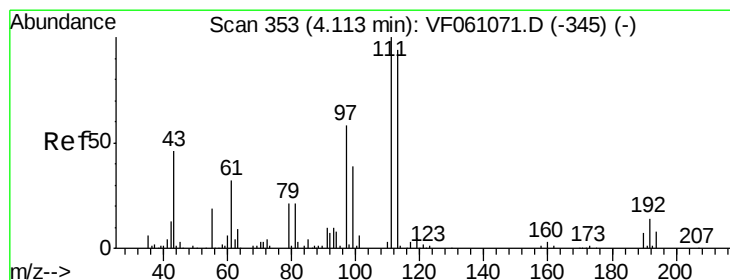
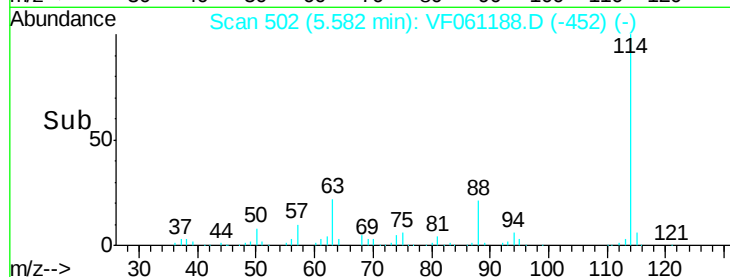
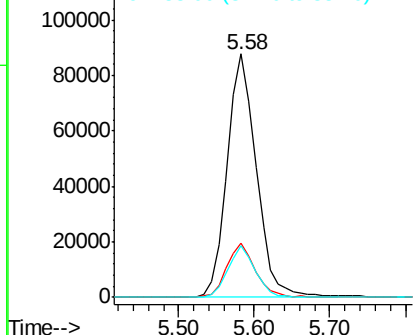
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.01 min
 Lab File: VF061188.D
 Acq: 26 Dec 2018 15:08

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS025-1218-01

Tgt Ion:114 Resp: 233825
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 41.6
 88 21.2 0.0 38.0

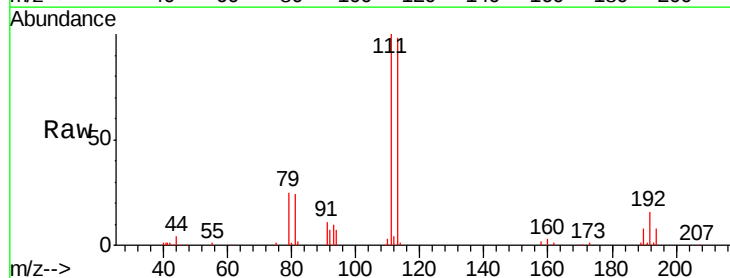


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

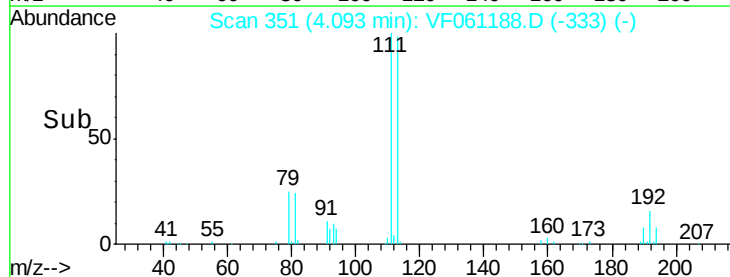
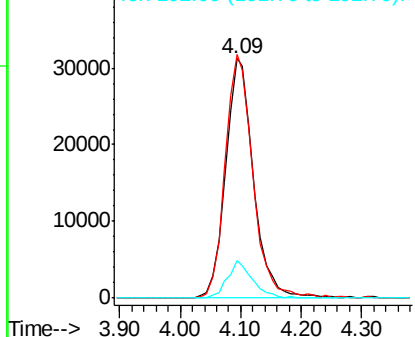


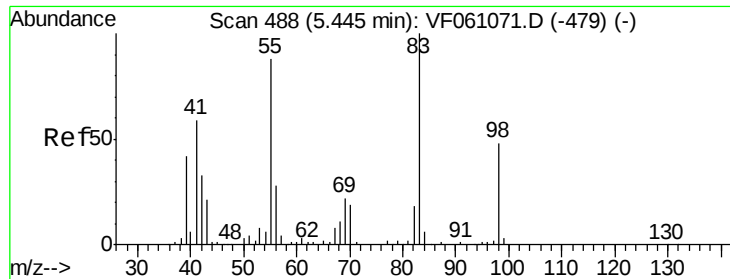
#35
 Dibromofluoromethane
 Concen: 53.332 ug/l
 RT: 4.09 min Scan# 351
 Delta R.T. -0.02 min
 Lab File: VF061188.D
 Acq: 26 Dec 2018 15:08

Tgt Ion:113 Resp: 99895
 Ion Ratio Lower Upper
 113 100
 111 101.8 85.2 127.8
 192 15.9 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

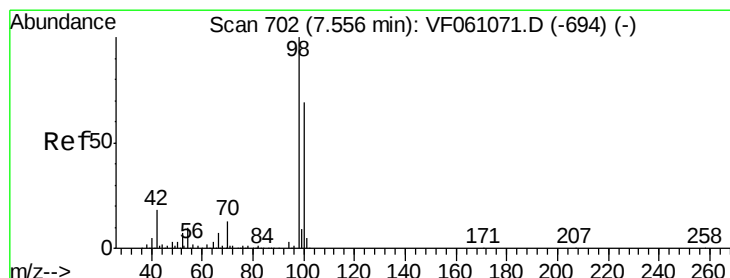
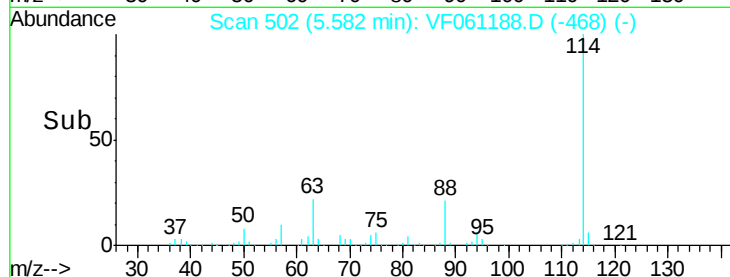
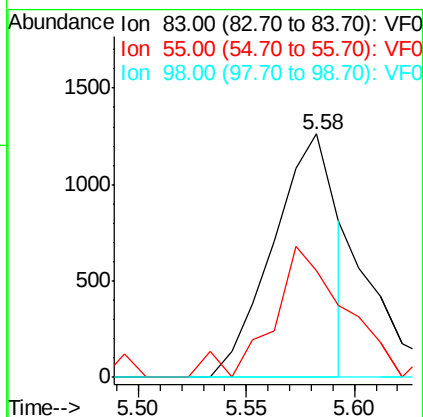
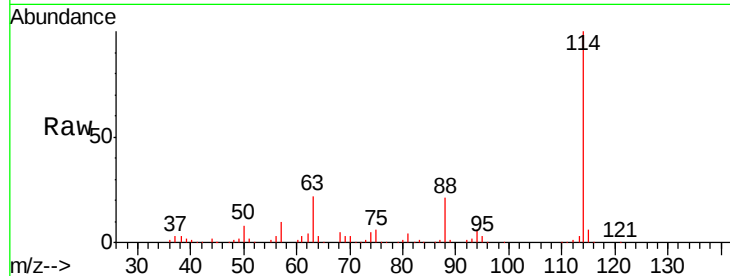




#39
Methylcyclohexane
Concen: 1.024 ug/l
RT: 5.58 min Scan# 502
Delta R.T. 0.14 min
Lab File: VF061188.D
Acq: 26 Dec 2018 15:08

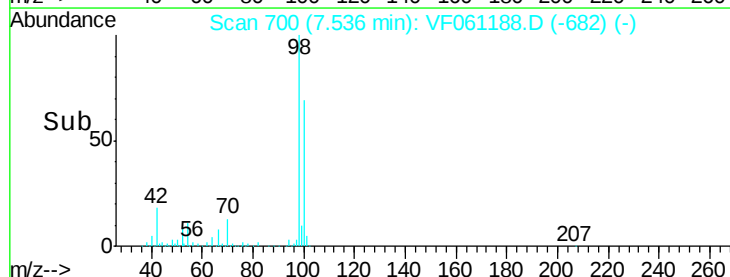
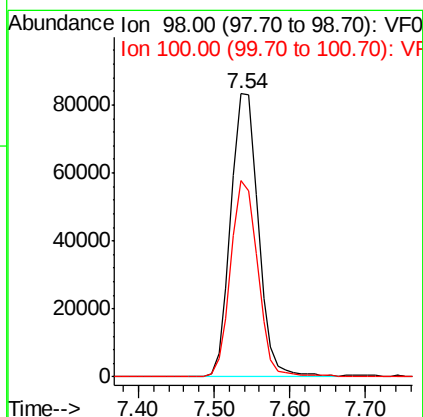
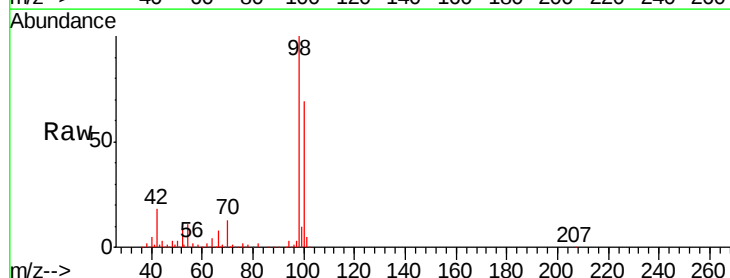
Instrument :
MSVOA_F
ClientSampleId :
P001-SS025-1218-01

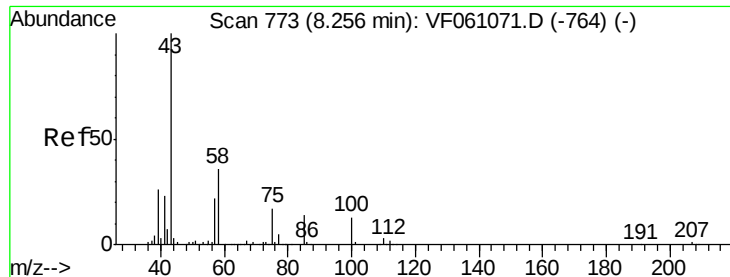
Tgt Ion: 83 Resp: 2594
Ion Ratio Lower Upper
83 100
55 43.6 70.6 105.8#
98 0.0 38.5 57.7#



#50
Toluene-d8
Concen: 39.618 ug/l
RT: 7.54 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF061188.D
Acq: 26 Dec 2018 15:08

Tgt Ion: 98 Resp: 210296
Ion Ratio Lower Upper
98 100
100 69.4 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 1.618 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.01 min

Lab File: VF061188.D

Acq: 26 Dec 2018 15:08

Instrument :

MSVOA_F

ClientSampleId :

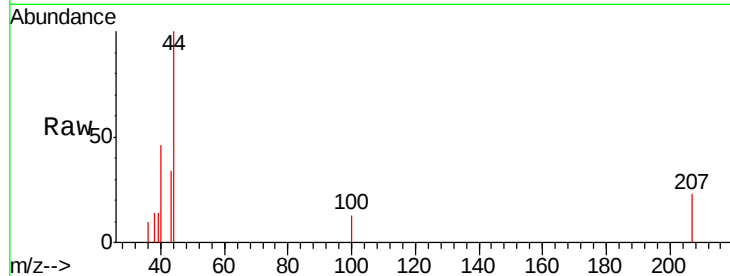
P001-SS025-1218-01

Tgt Ion: 43 Resp: 1512

Ion Ratio Lower Upper

43 100

58 0.0 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.25

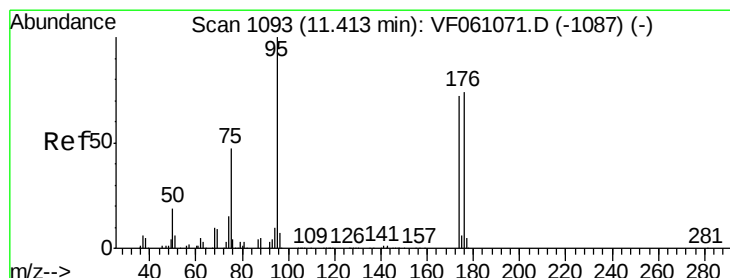
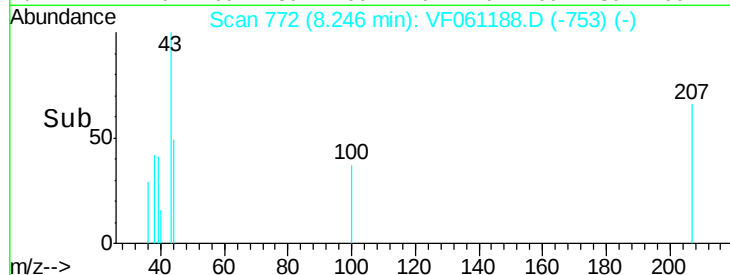
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: 32.531 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061188.D

Acq: 26 Dec 2018 15:08

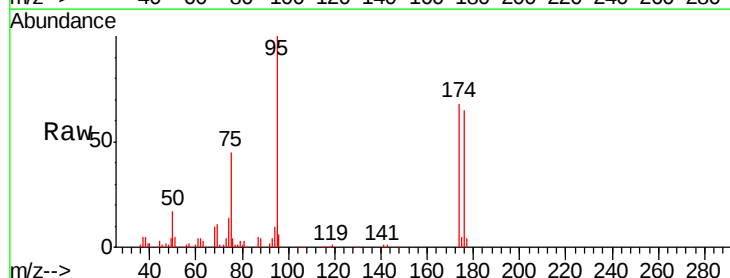
Tgt Ion: 95 Resp: 79605

Ion Ratio Lower Upper

95 100

174 68.0 0.0 143.8

176 64.7 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

60000

50000

40000

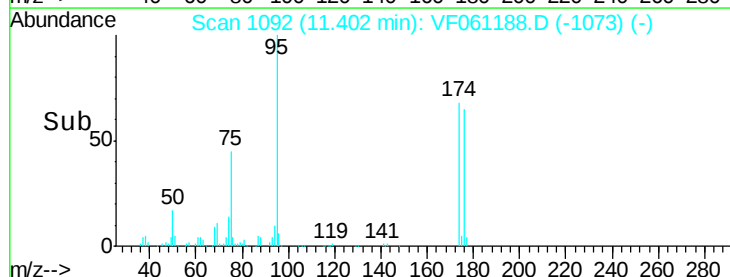
30000

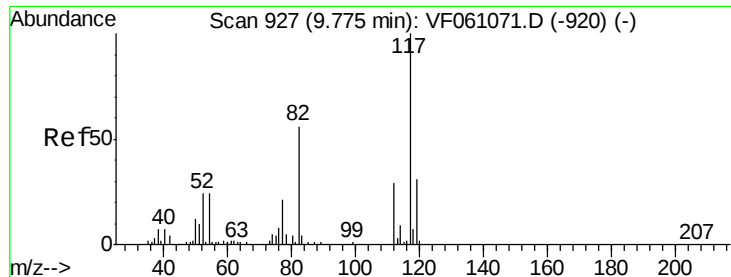
20000

10000

0

Time-->

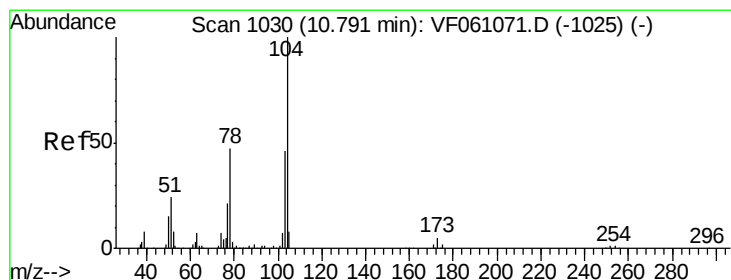
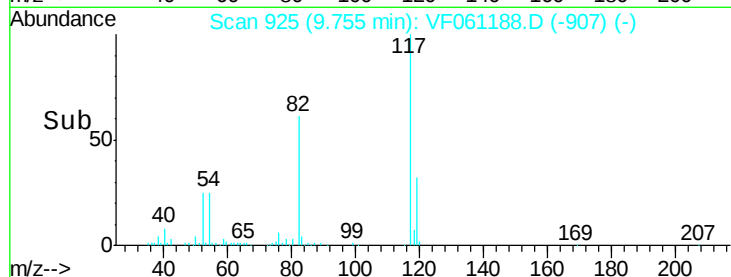
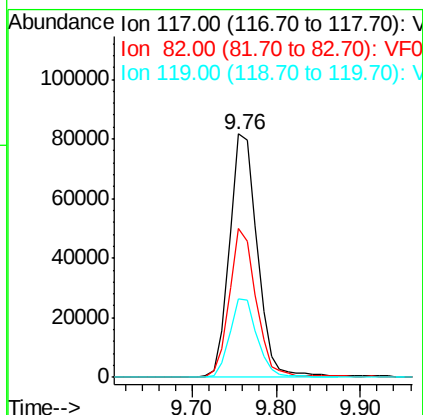
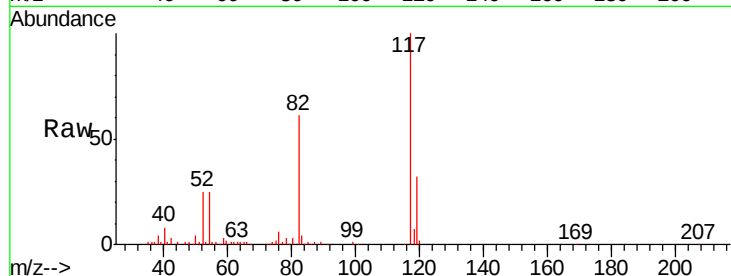




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 925
Delta R.T. -0.02 min
Lab File: VF061188.D
Acq: 26 Dec 2018 15:08

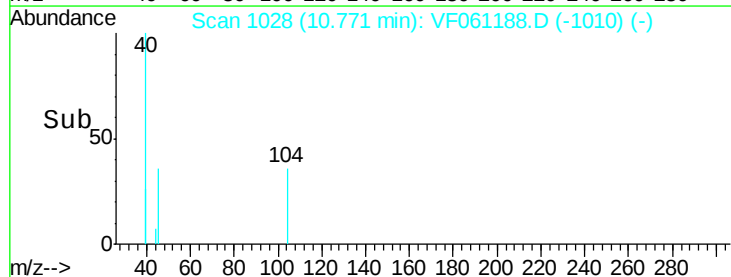
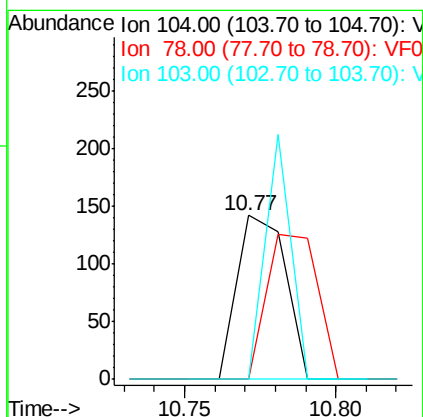
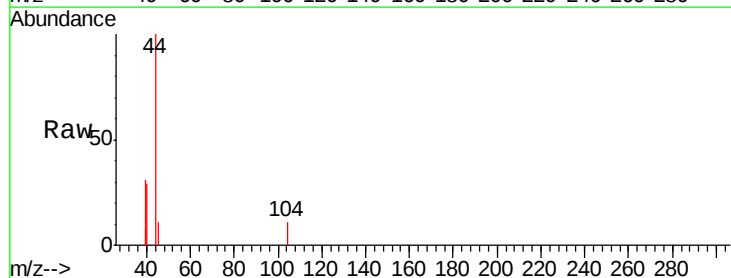
Instrument :
MSVOA_F
ClientSampleId :
P001-SS025-1218-01

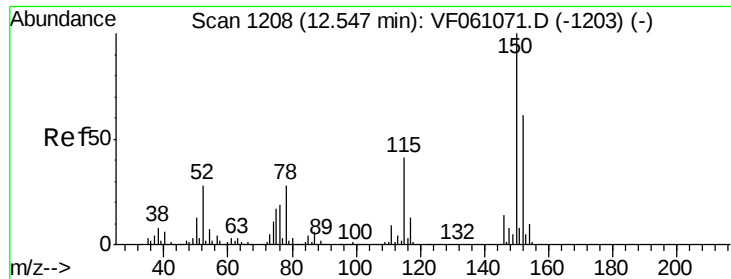
Tgt Ion:117 Resp: 188688
Ion Ratio Lower Upper
117 100
82 61.0 45.0 67.4
119 32.0 24.8 37.2



#70
Styrene
Concen: Below Cal
RT: 10.77 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VF061188.D
Acq: 26 Dec 2018 15:08

Tgt Ion:104 Resp: 160
Ion Ratio Lower Upper
104 100
78 0.0 38.4 57.6#
103 0.0 37.0 55.6#



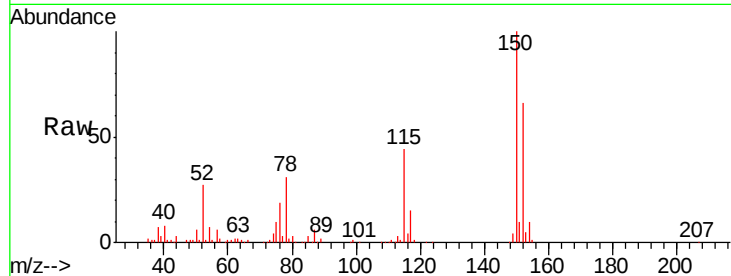


#72

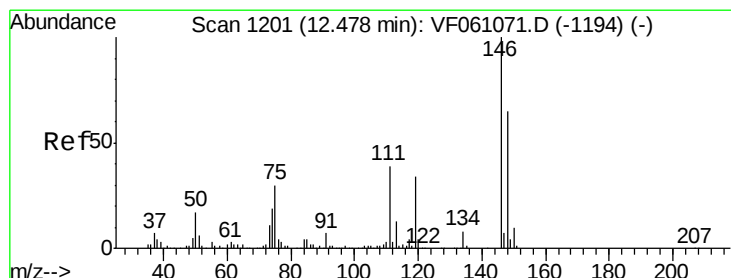
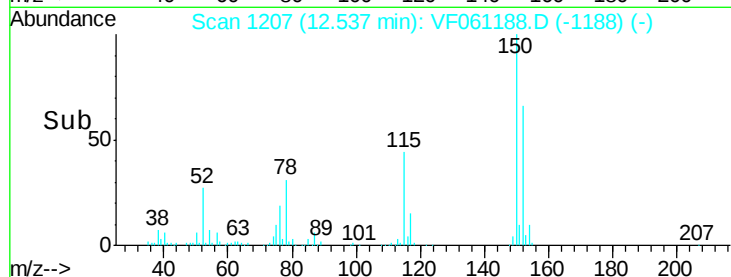
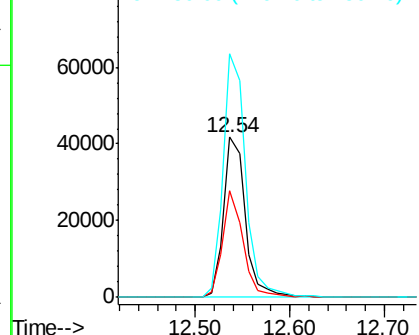
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.01 min
Lab File: VF061188.D
Acq: 26 Dec 2018 15:08

Instrument :
MSVOA_F
ClientSampleId :
P001-SS025-1218-01

Tgt Ion:152 Resp: 67155
Ion Ratio Lower Upper
152 100
115 66.9 33.3 99.9
150 152.3 0.0 328.2



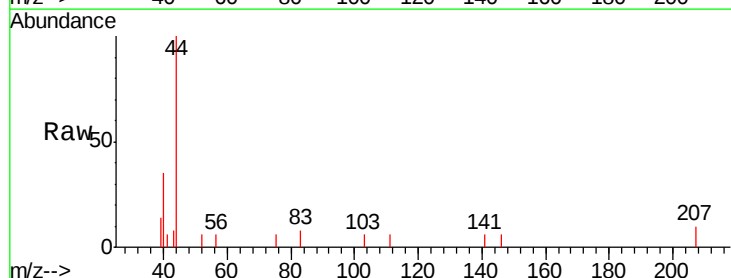
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



#87

1,3-Dichlorobenzene
Concen: Below Cal
RT: 12.47 min Scan# 1200
Delta R.T. -0.01 min
Lab File: VF061188.D
Acq: 26 Dec 2018 15:08

Tgt Ion:146 Resp: 60
Ion Ratio Lower Upper
146 100
111 109.9 19.3 57.9#
148 0.0 32.4 97.2#



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

