

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121918\
 Data File : VF061092.D
 Acq On : 19 Dec 2018 18:37
 Operator : VA/AP
 Sample : J6388-11
 Misc : 3.41g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 20 02:24:37 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	4.87	168	139804	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	226993	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	122991	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	30337	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	91094	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
35) Dibromofluoromethane	4.12	113	92626	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
50) Toluene-d8	7.56	98	166602	32.33	ug/l	0.00
Spiked Amount			Recovery	=	64.66%	
62) 4-Bromofluorobenzene	11.41	95	38221	16.09	ug/l	0.00
Spiked Amount			Recovery	=	32.18%	

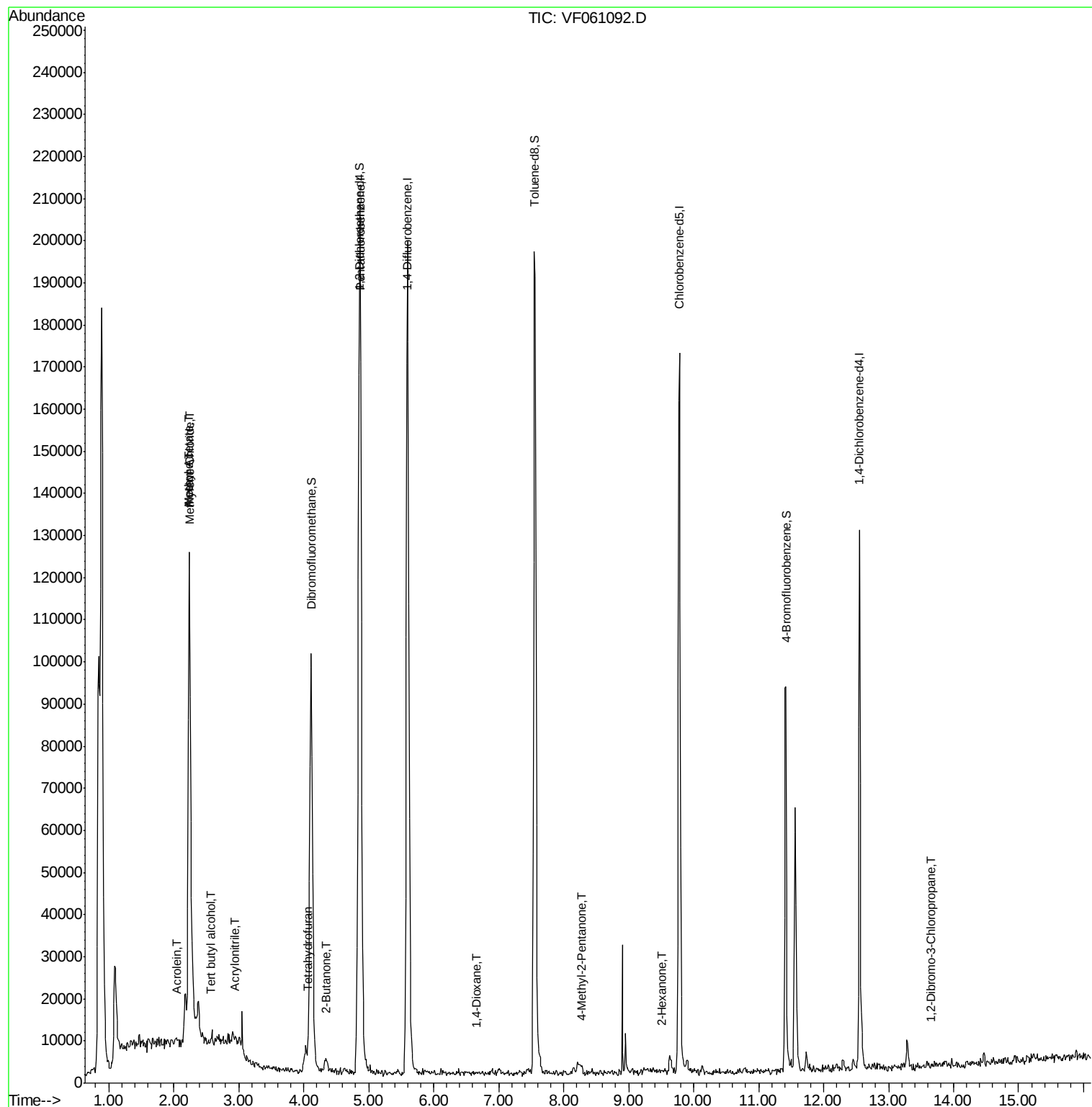
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	140	1.929	ug/l #	1
13) Acrolein	2.04	56	764	14.571	ug/l #	67
15) Acrylonitrile	2.95	53	878	5.233	ug/l #	38
16) Acetone	2.23	43	230902	642.351	ug/l	96
18) Methyl Acetate	2.23	43	222696	299.443	ug/l #	66
20) Methylene Chloride	2.25	84	9009	3.682	ug/l #	88
25) 2-Butanone	4.34	43	9389	16.105	ug/l	95
29) Tetrahydrofuran	4.06	42	305	1.285	ug/l #	37
49) 1,4-Dioxane	6.66	88	75	11.191	ug/l #	25
51) 4-Methyl-2-Pentanone	8.28	43	2016	2.222	ug/l #	38
59) 2-Hexanone	9.51	43	1148	1.750	ug/l	72
70) Styrene	10.80	104	623	Below Cal	#	64
87) 1,3-Dichlorobenzene	12.48	146	182	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	13.64	75	125	1.570	ug/l #	2

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.00 min

Lab File: VF061092.D

Acq: 19 Dec 2018 18:37

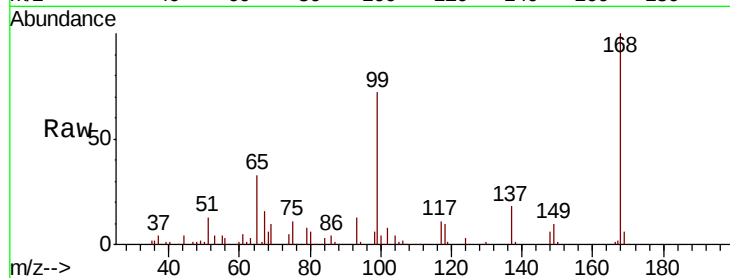
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 139804

Ion Ratio Lower Upper

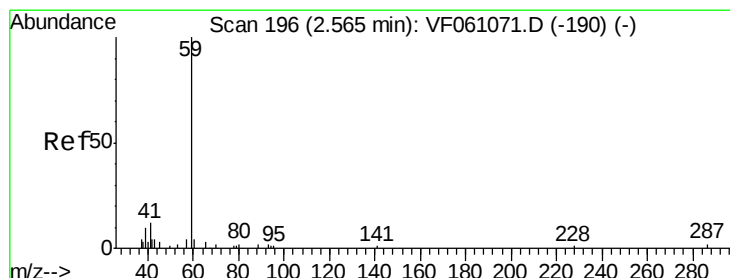
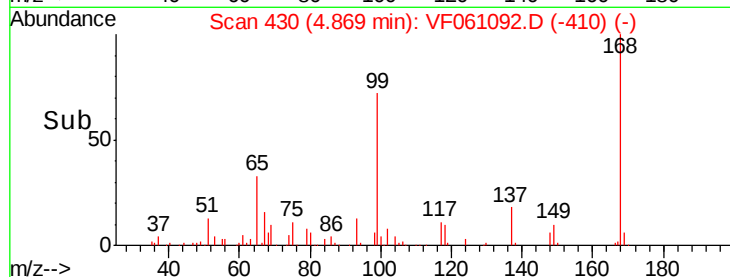
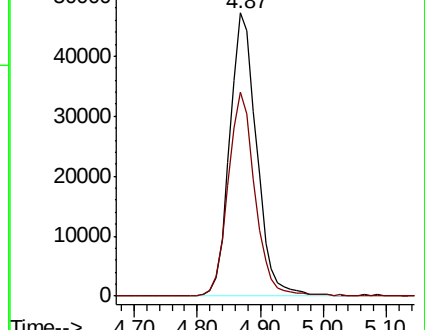
168 100

99 72.3 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF061071.D

Ion 99.00 (98.70 to 99.70): VF061071.D



#11

Tert butyl alcohol

Concen: 1.929 ug/l

RT: 2.57 min Scan# 197

Delta R.T. 0.01 min

Lab File: VF061092.D

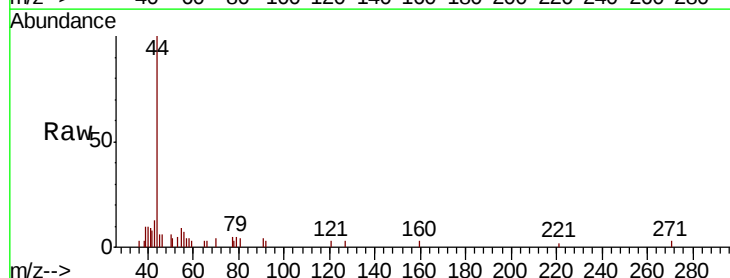
Acq: 19 Dec 2018 18:37

Tgt Ion: 59 Resp: 140

Ion Ratio Lower Upper

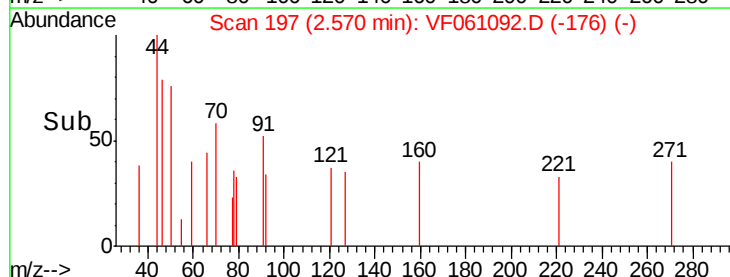
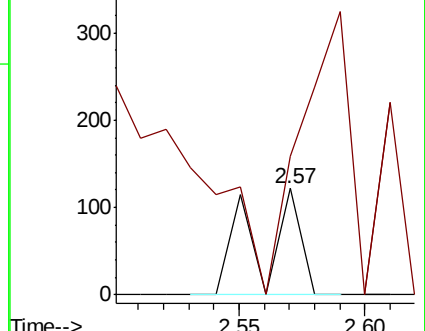
59 100

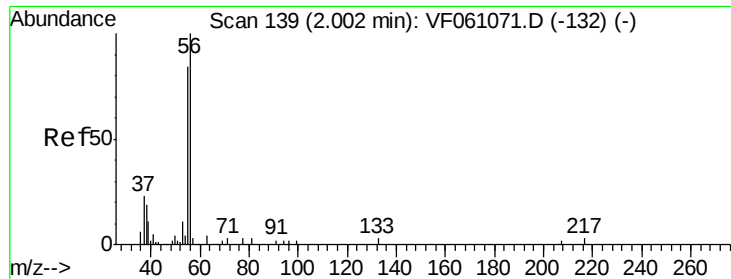
57 130.3 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF061071.D

Ion 57.00 (56.70 to 57.70): VF061071.D

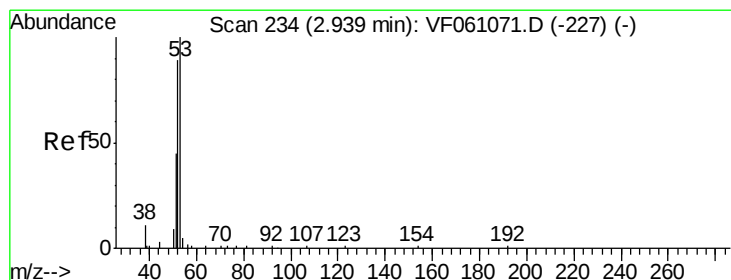
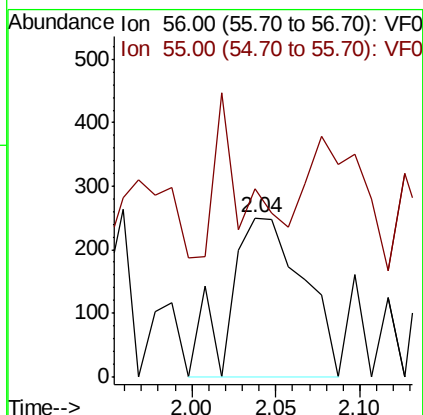
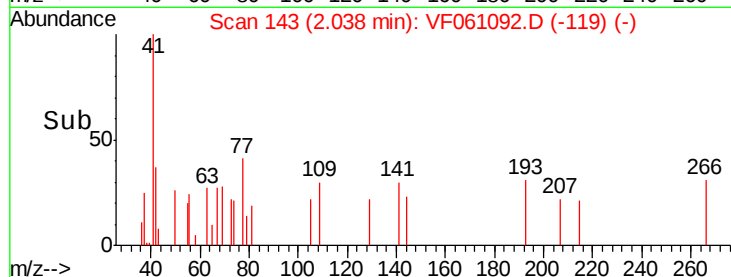
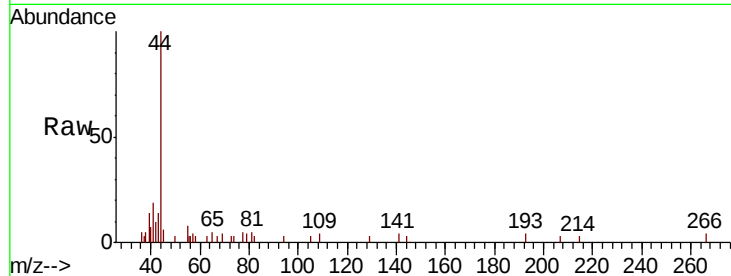




#13
Acrolein
Concen: 14.571 ug/l
RT: 2.04 min Scan# 143
Delta R.T. 0.04 min
Lab File: VF061092.D
Acq: 19 Dec 2018 18:37

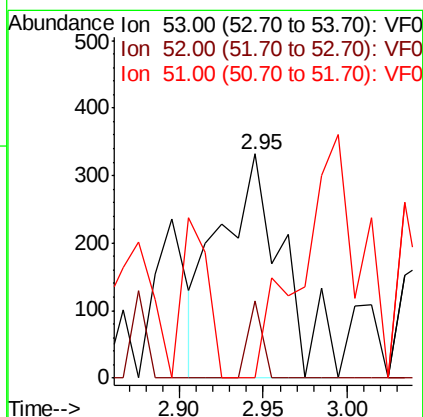
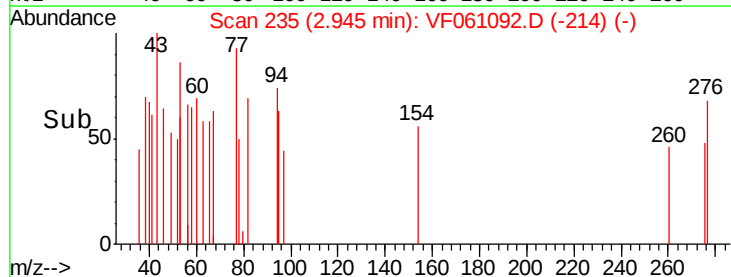
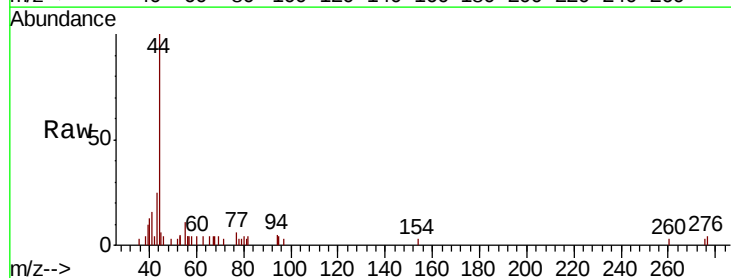
Instrument :
MSVOA_F
ClientSampleId :

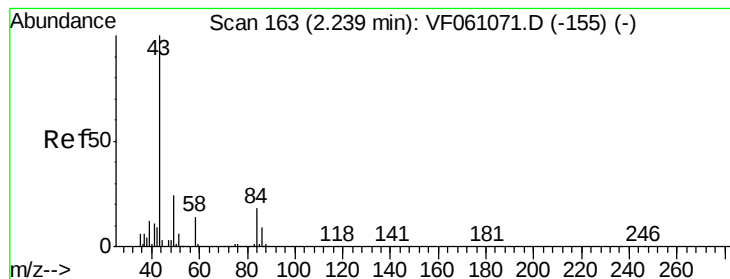
Tot Ion: 56 Resp: 764
Ion Ratio Lower Upper
56 100
55 118.4 70.2 105.2#



#15
Acrylonitrile
Concen: 5.233 ug/l
RT: 2.95 min Scan# 235
Delta R.T. 0.01 min
Lab File: VF061092.D
Acq: 19 Dec 2018 18:37

Tgt Ion: 53 Resp: 878
Ion Ratio Lower Upper
53 100
52 34.3 71.3 106.9#
51 0.0 36.8 55.2#





#16

Acetone

Concen: 642.351 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061092.D

Acq: 19 Dec 2018 18:37

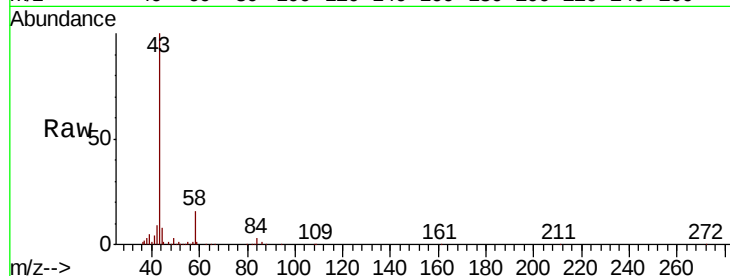
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 230902

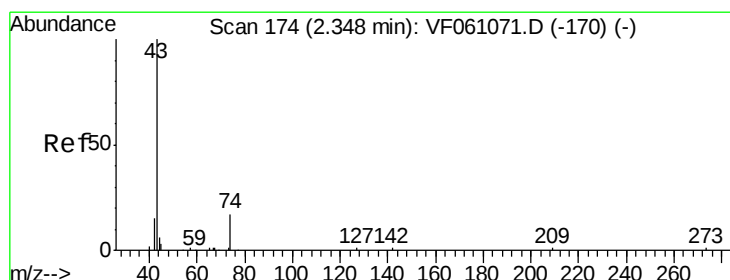
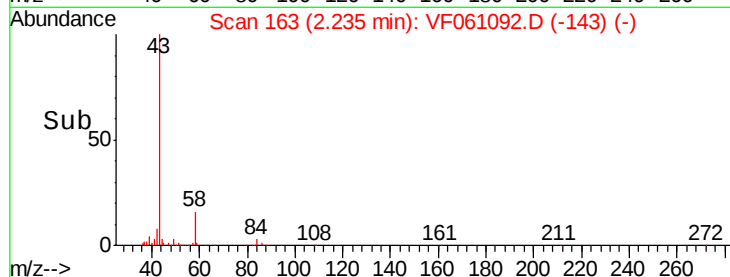
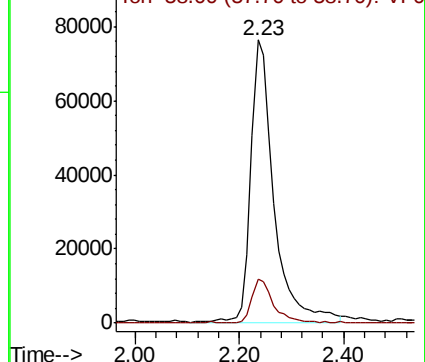
Ion Ratio Lower Upper

43 100

58 15.7 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: 299.443 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.11 min

Lab File: VF061092.D

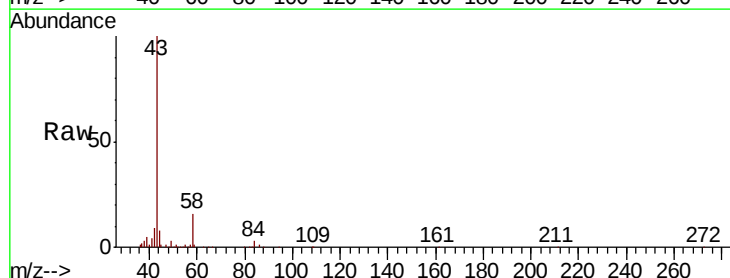
Acq: 19 Dec 2018 18:37

Tgt Ion: 43 Resp: 222696

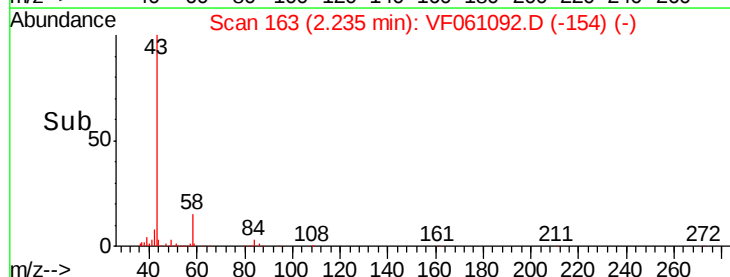
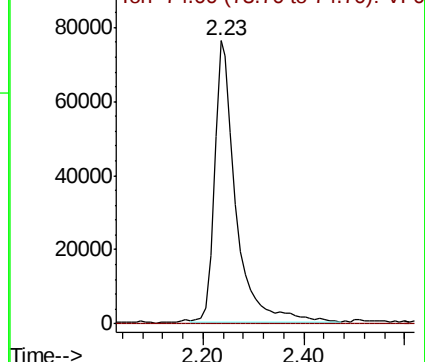
Ion Ratio Lower Upper

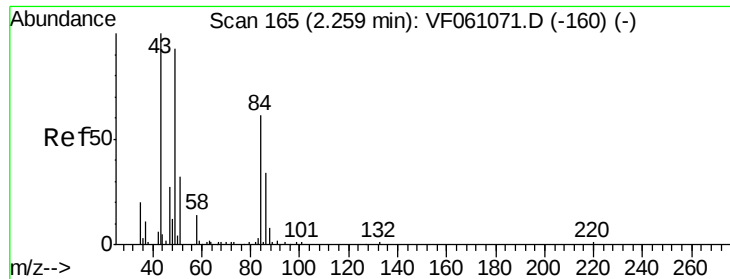
43 100

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

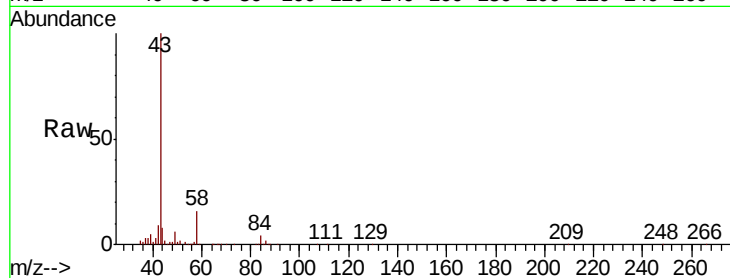




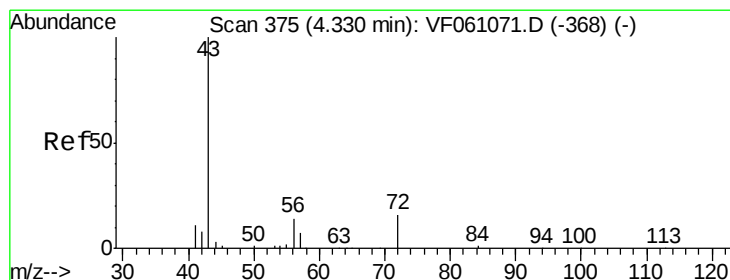
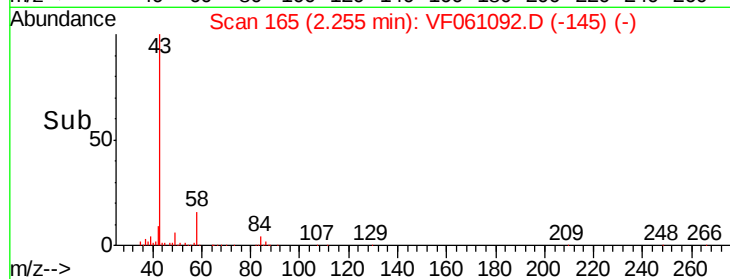
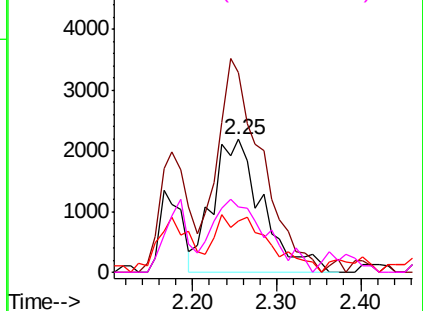
#20
Methvlene Chloride
Concen: 3.682 ug/l
RT: 2.25 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF061092.D
Acq: 19 Dec 2018 18:37

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 9009
Ion Ratio Lower Upper
84 100
49 150.3 129.4 194.2
51 39.0 44.0 66.0#
86 49.5 46.3 69.5

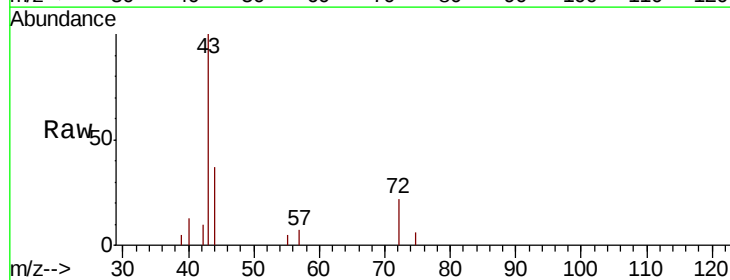


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

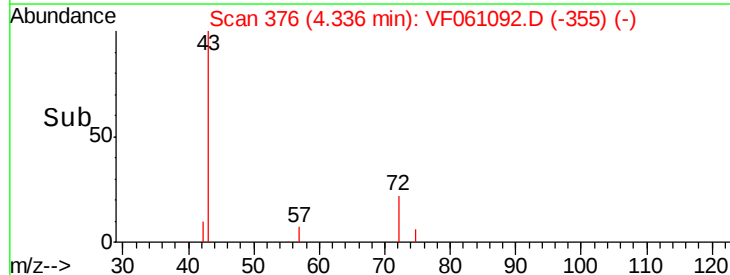
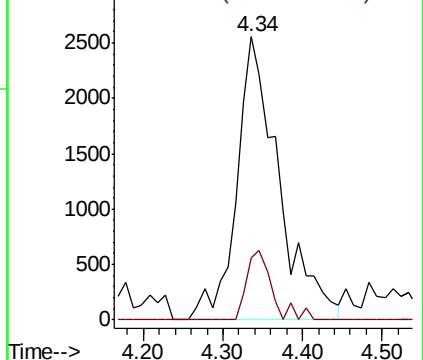


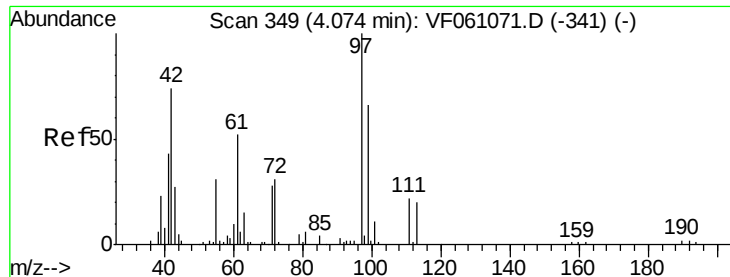
#25
2-Butanone
Concen: 16.105 ug/l
RT: 4.34 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF061092.D
Acq: 19 Dec 2018 18:37

Tgt Ion: 43 Resp: 9389
Ion Ratio Lower Upper
43 100
72 21.8 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: 1.285 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VF061092.D

Acq: 19 Dec 2018 18:37

Instrument :

MSVOA_F

ClientSampleId :

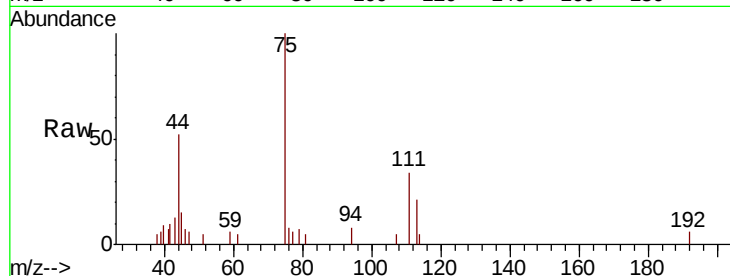
Tot Ion: 42 Resp: 305

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

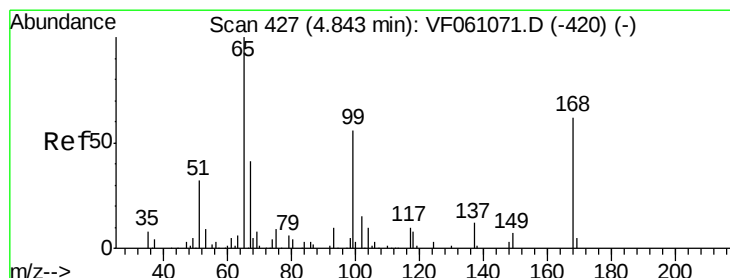
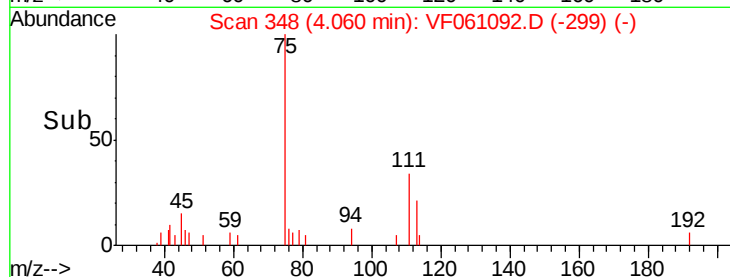
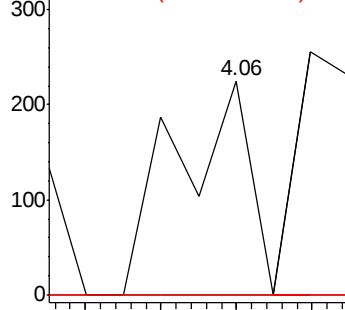
71 0.0 29.7 44.5#



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: 50.661 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061092.D

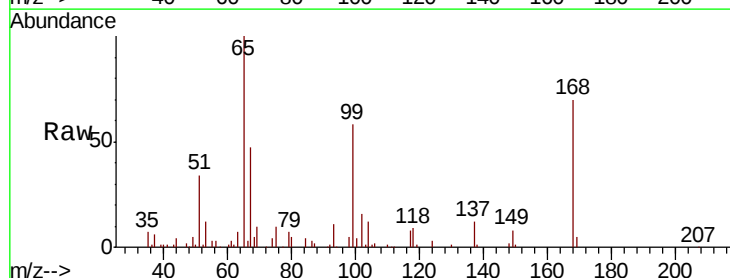
Acq: 19 Dec 2018 18:37

Tgt Ion: 65 Resp: 91094

Ion Ratio Lower Upper

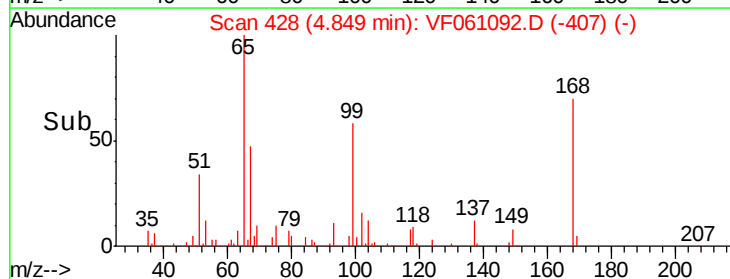
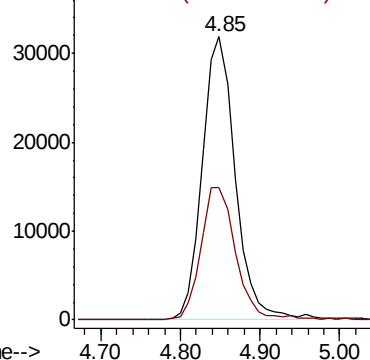
65 100

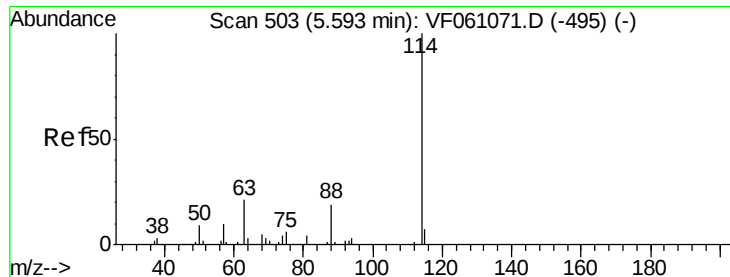
67 46.7 0.0 94.6



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: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061092.D

Acq: 19 Dec 2018 18:37

Instrument :
MSVOA_F
ClientSampleId :

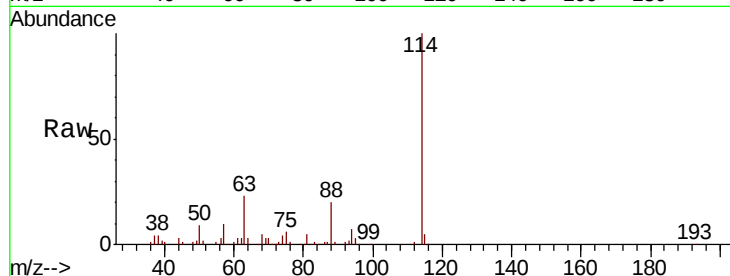
Tot Ion:114 Resp: 226993

Ion Ratio Lower Upper

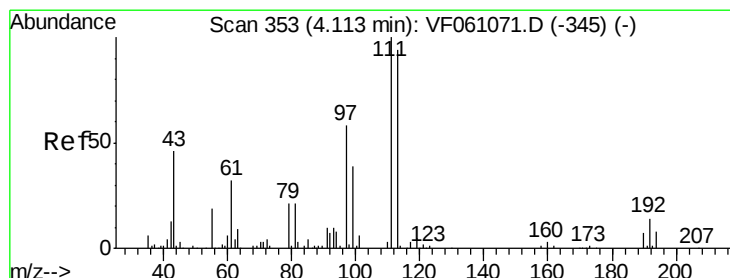
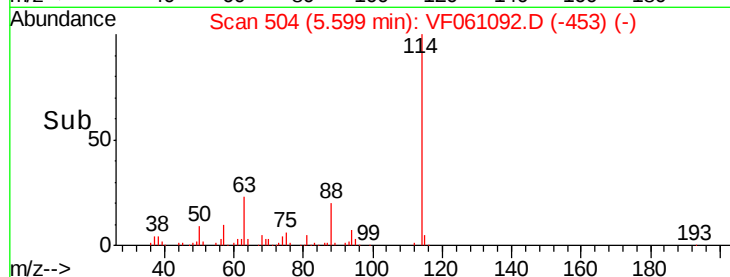
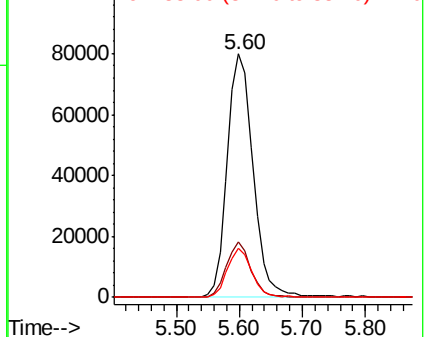
114 100

63 23.0 0.0 41.6

88 20.1 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: 50.940 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061092.D

Acq: 19 Dec 2018 18:37

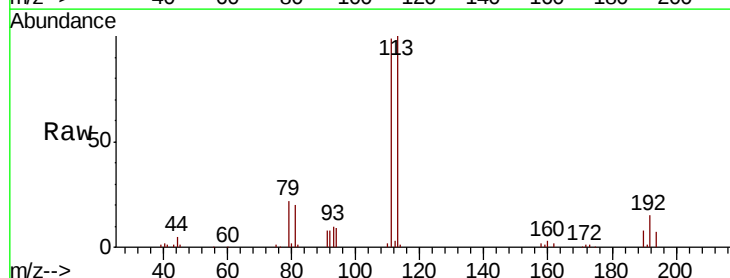
Tgt Ion:113 Resp: 92626

Ion Ratio Lower Upper

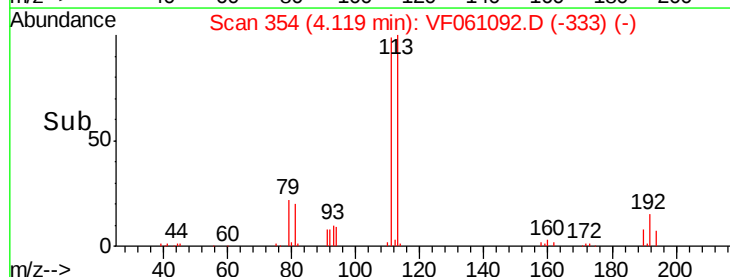
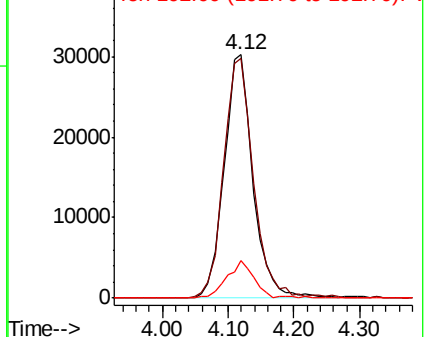
113 100

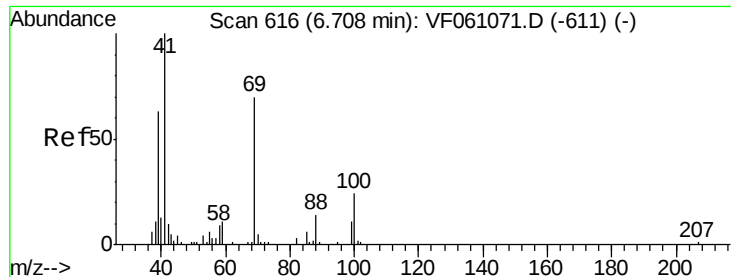
111 98.5 85.2 127.8

192 15.2 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: 11.191 ug/l

RT: 6.66 min Scan# 612

Delta R.T. -0.04 min

Lab File: VF061092.D

Acq: 19 Dec 2018 18:37

Instrument :
MSVOA_F
ClientSampled :

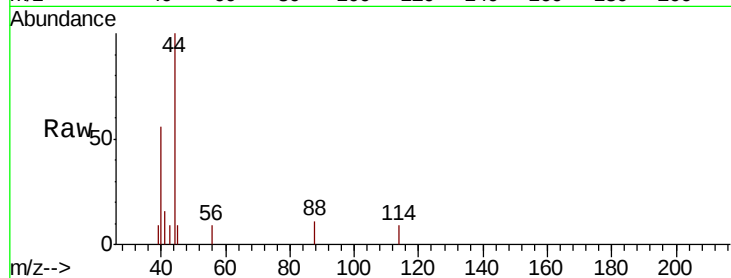
Tot Ion: 88 Resp: 75

Ion Ratio Lower Upper

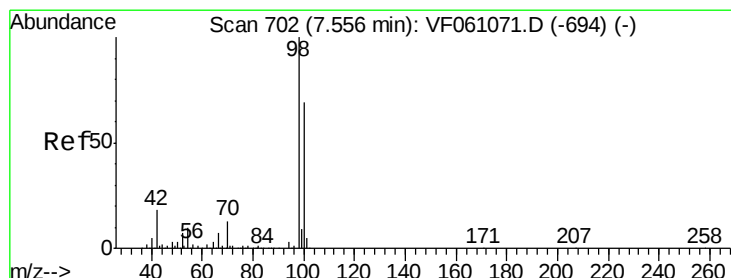
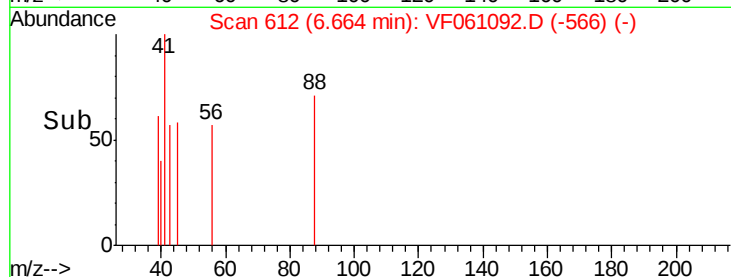
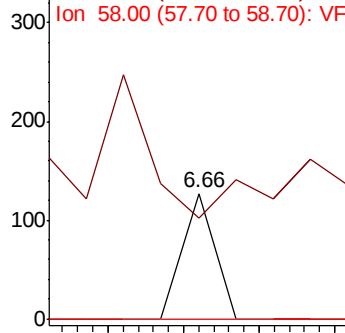
88 100

43 80.3 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: 32.331 ug/l

RT: 7.56 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF061092.D

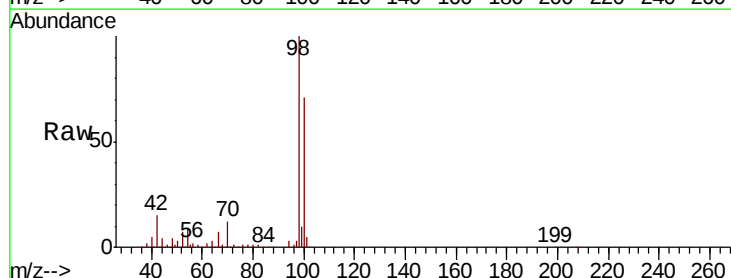
Acq: 19 Dec 2018 18:37

Tgt Ion: 98 Resp: 166602

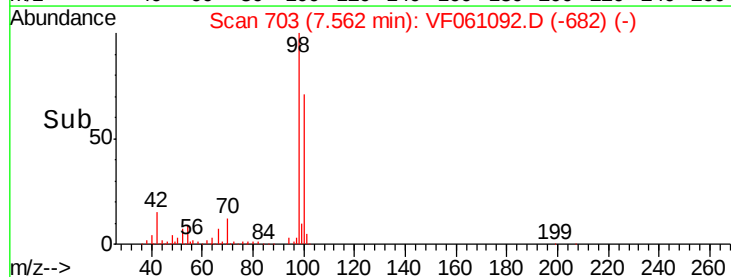
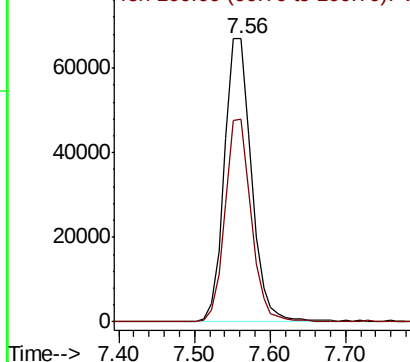
Ion Ratio Lower Upper

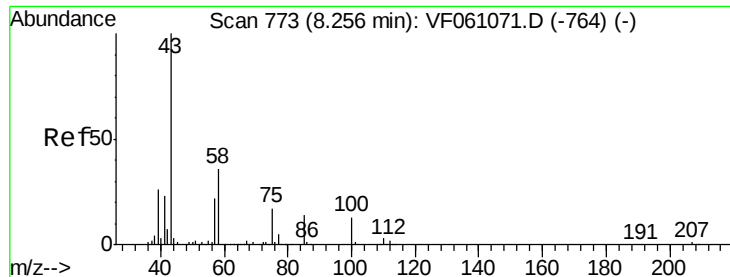
98 100

100 71.5 55.3 82.9



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





#51

4-Methyl-2-Pentanone

Concen: 2.222 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.03 min

Lab File: VF061092.D

Acq: 19 Dec 2018 18:37

Instrument :

MSVOA_F

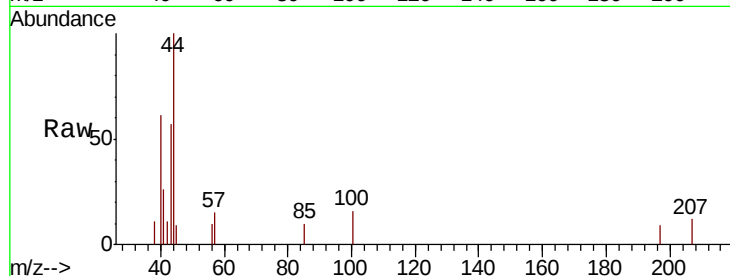
ClientSampleId :

Tot Ion: 43 Resp: 2016

Ion Ratio Lower Upper

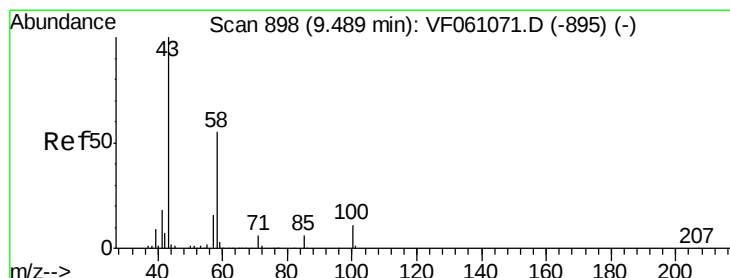
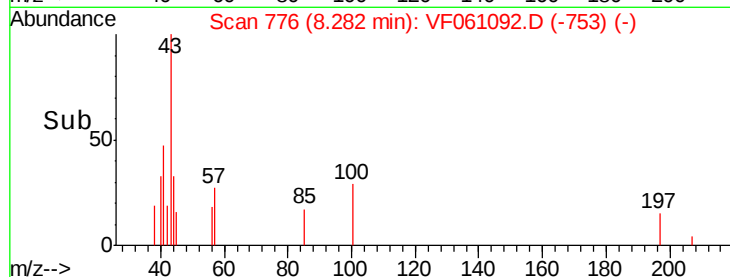
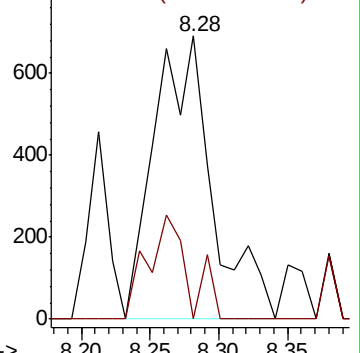
43 100

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



#59

2-Hexanone

Concen: 1.750 ug/l

RT: 9.51 min Scan# 901

Delta R.T. 0.03 min

Lab File: VF061092.D

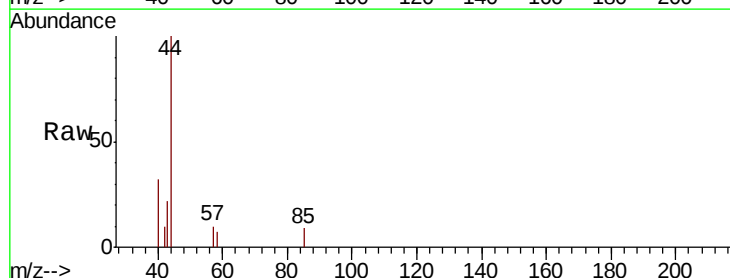
Acq: 19 Dec 2018 18:37

Tgt Ion: 43 Resp: 1148

Ion Ratio Lower Upper

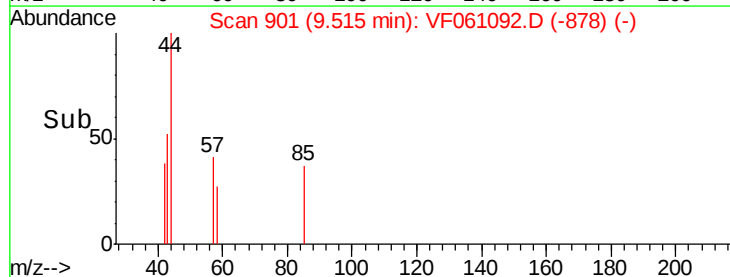
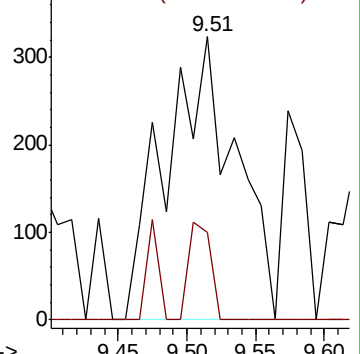
43 100

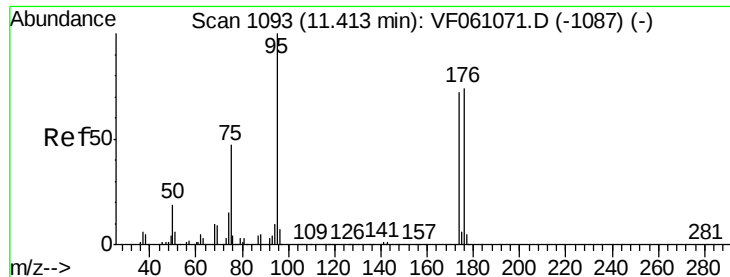
58 31.0 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 16.089 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF061092.D

Acq: 19 Dec 2018 18:37

Instrument :

MSVOA_F

ClientSampled :

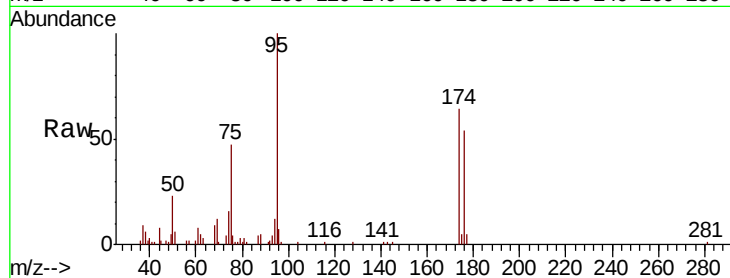
Tot Ion: 95 Resp: 38221

Ion Ratio Lower Upper

95 100

174 64.0 0.0 143.8

176 54.4 0.0 147.6

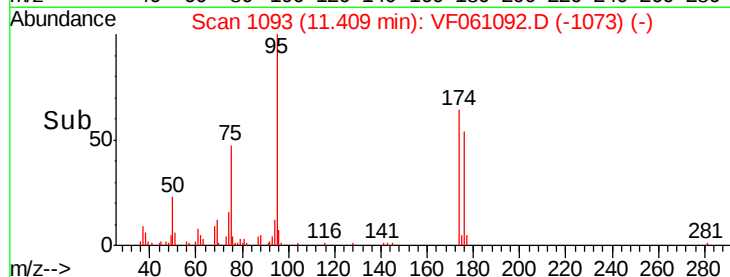


Abundance Ion 95.00 (94.70 to 95.70): VF061092.D (-1073) (-)

Ion 174.00 (173.70 to 174.70): VF061092.D (-1073) (-)

Ion 176.00 (175.70 to 176.70): VF061092.D (-1073) (-)

Time-->

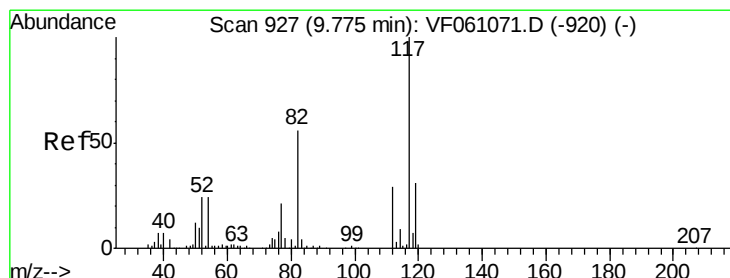


Abundance Ion 95.00 (94.70 to 95.70): VF061092.D (-1073) (-)

Ion 174.00 (173.70 to 174.70): VF061092.D (-1073) (-)

Ion 176.00 (175.70 to 176.70): VF061092.D (-1073) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. 0.01 min

Lab File: VF061092.D

Acq: 19 Dec 2018 18:37

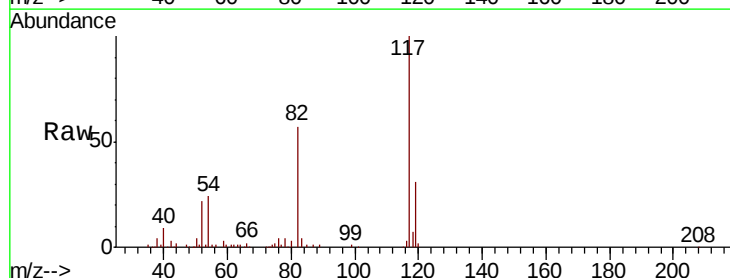
Tgt Ion: 117 Resp: 122991

Ion Ratio Lower Upper

117 100

82 57.4 45.0 67.4

119 31.4 24.8 37.2

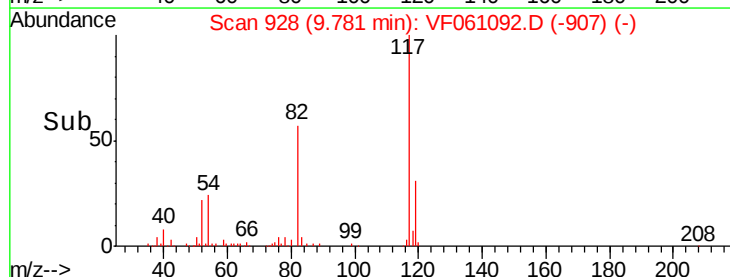


Abundance Ion 117.00 (116.70 to 117.70): VF061092.D (-907) (-)

Ion 82.00 (81.70 to 82.70): VF061092.D (-907) (-)

Ion 119.00 (118.70 to 119.70): VF061092.D (-907) (-)

Time-->

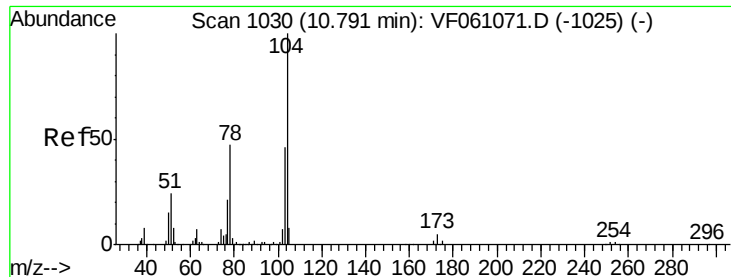


Abundance Ion 117.00 (116.70 to 117.70): VF061092.D (-907) (-)

Ion 82.00 (81.70 to 82.70): VF061092.D (-907) (-)

Ion 119.00 (118.70 to 119.70): VF061092.D (-907) (-)

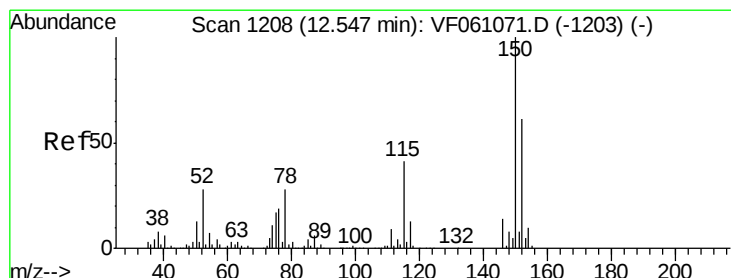
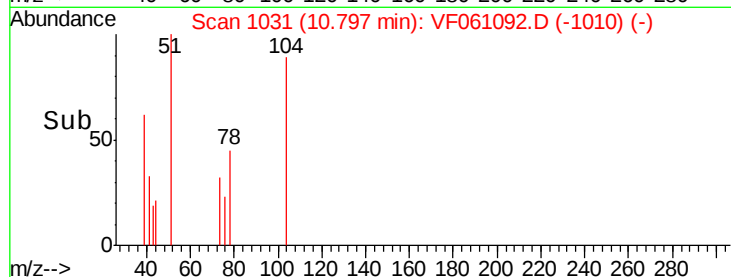
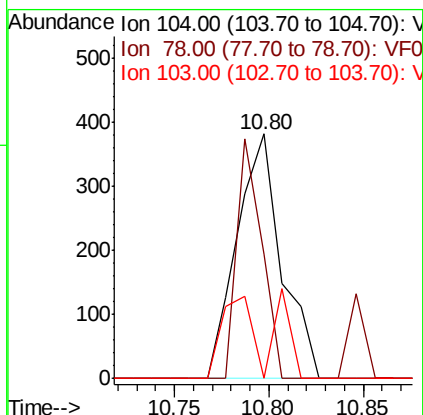
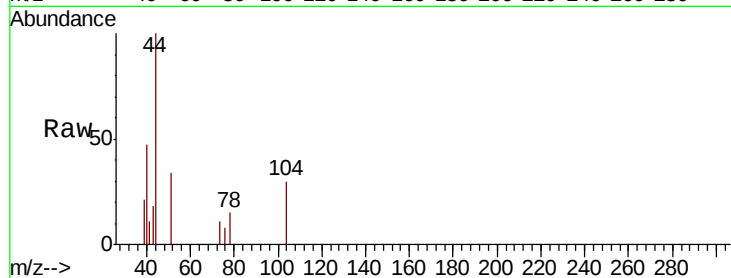
Time-->



#70
Stvrene
Concen: Below Cal
RT: 10.80 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VF061092.D
Acq: 19 Dec 2018 18:37

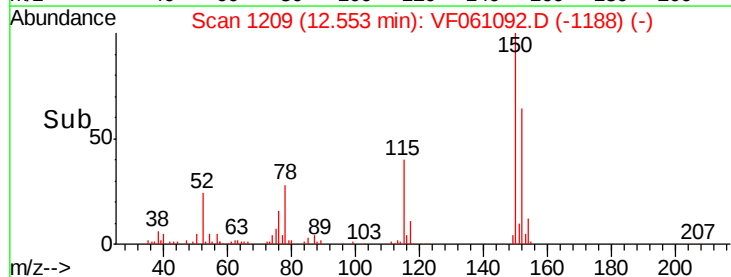
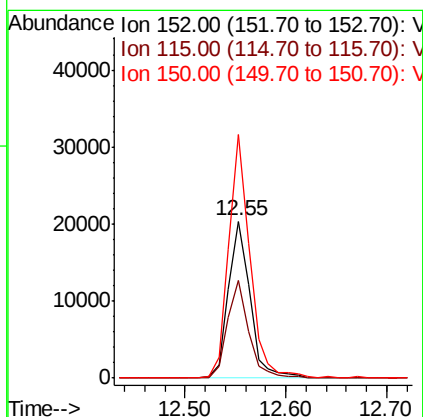
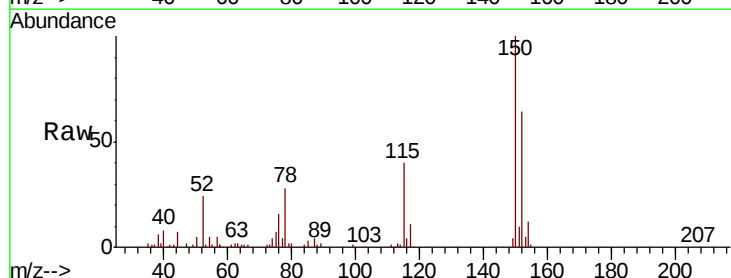
Instrument :
MSVOA_F
ClientSampleId :

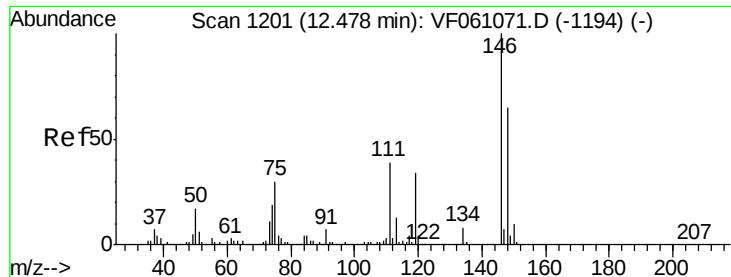
Tot Ion:104 Resp: 623
Ion Ratio Lower Upper
104 100
78 50.9 38.4 57.6
103 0.0 37.0 55.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061092.D
Acq: 19 Dec 2018 18:37

Tgt Ion:152 Resp: 30337
Ion Ratio Lower Upper
152 100
115 62.1 33.3 99.9
150 155.3 0.0 328.2





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.48 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VF061092.D

Acq: 19 Dec 2018 18:37

Instrument :

MSVOA_F

ClientSampleId :

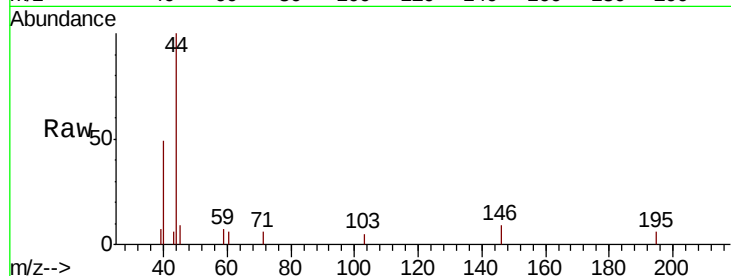
Tot Ion:146 Resp: 182

Ion Ratio Lower Upper

146 100

111 0.0 19.3 57.9#

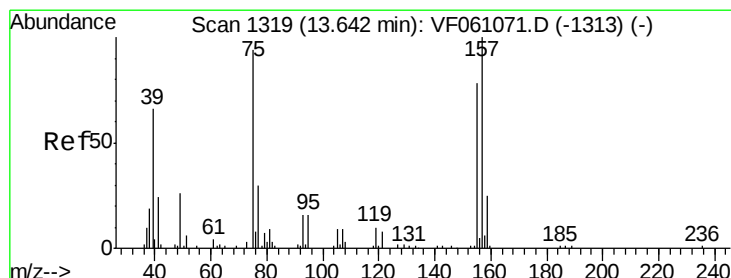
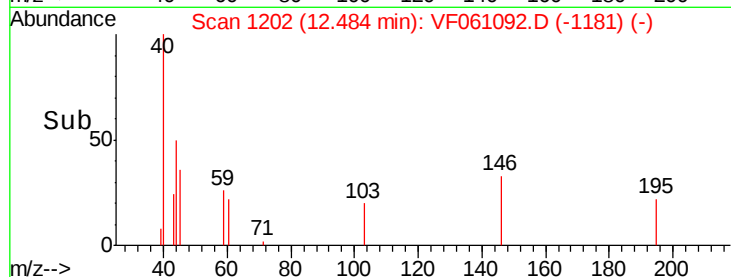
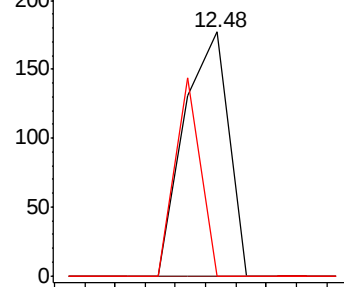
148 0.0 32.4 97.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.570 ug/l

RT: 13.64 min Scan# 1319

Delta R.T. -0.00 min

Lab File: VF061092.D

Acq: 19 Dec 2018 18:37

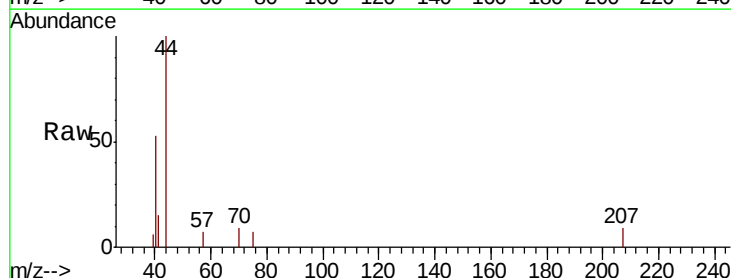
Tgt Ion: 75 Resp: 125

Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.5#

157 0.0 53.2 159.6#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

