

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012419\
 Data File : VF061507.D
 Acq On : 24 Jan 2019 18:33
 Operator : VA/AP
 Sample : K1223-04RE
 Misc : 5.28g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-PRE

Quant Time: Jan 25 04:10:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

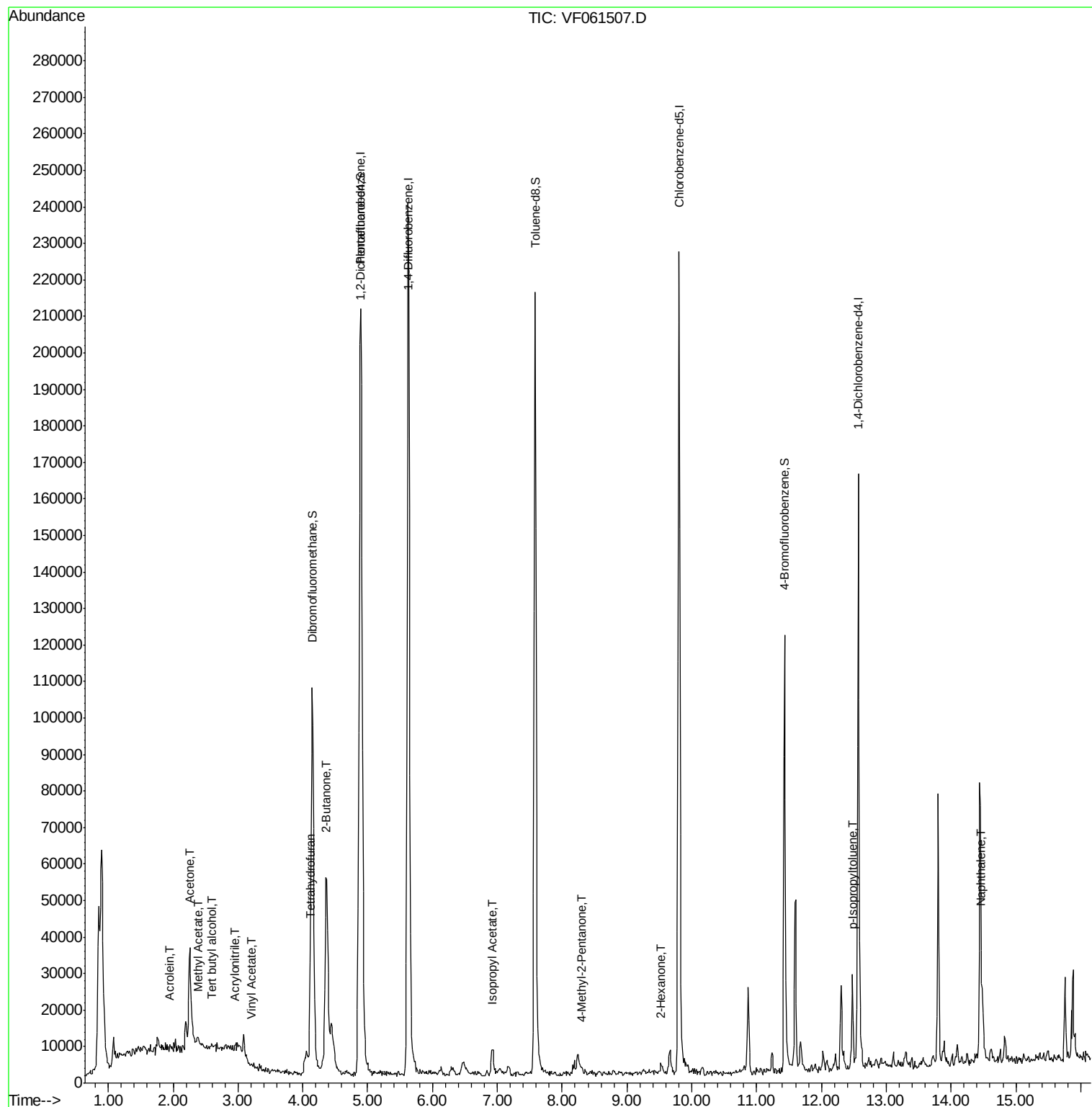
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	150713	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	5.62	114	265194	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.81	117	168167	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	12.57	152	37155	50.00	ug/l	0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.87	65	90904	48.85	ug/l	0.04
Spiked Amount 50.000			Recovery	=	97.70%	
35) Dibromofluoromethane	4.14	113	99707	47.65	ug/l	0.04
Spiked Amount 50.000			Recovery	=	95.30%	
50) Toluene-d8	7.58	98	188008	32.79	ug/l	0.03
Spiked Amount 50.000			Recovery	=	65.58%	
62) 4-Bromofluorobenzene	11.43	95	45858	17.12	ug/l	0.03
Spiked Amount 50.000			Recovery	=	34.24%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.60	59	90	1.143	ug/l #	1
13) Acrolein	1.95	56	619	19.084	ug/l	87
14) Allyl chloride	2.07	41	478	Below Cal	#	57
15) Acrylonitrile	2.94	53	526	2.607	ug/l #	14
16) Acetone	2.25	43	37178	99.596	ug/l	96
18) Methyl Acetate	2.37	43	3888	5.252	ug/l #	61
20) Methylene Chloride	2.19	84	1889	Below Cal	#	78
23) Vinyl Acetate	3.20	43	245	3.309	ug/l #	78
25) 2-Butanone	4.36	43	112765	181.656	ug/l	98
29) Tetrahydrofuran	4.10	42	778	2.911	ug/l #	38
43) Isopropyl Acetate	6.92	43	11042	7.158	ug/l #	51
51) 4-Methyl-2-Pentanone	8.31	43	2767	2.440	ug/l	93
59) 2-Hexanone	9.52	43	3143	3.974	ug/l	87
86) p-Isopropyltoluene	12.48	119	12703	4.514	ug/l	100
95) Naphthalene	14.47	128	3457	2.176	ug/l #	81

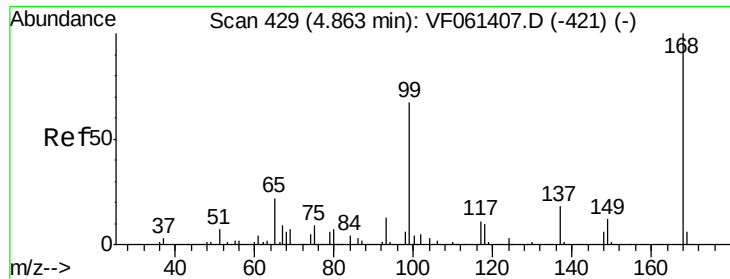
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF012419\
Data File : VF061507.D
Acq On : 24 Jan 2019 18:33
Operator : VA/AP
Sample : K1223-04RE
Misc : 5.28g/5mL/MSVOA-F/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
TS-PRE

Quant Time: Jan 25 04:10:01 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.04 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

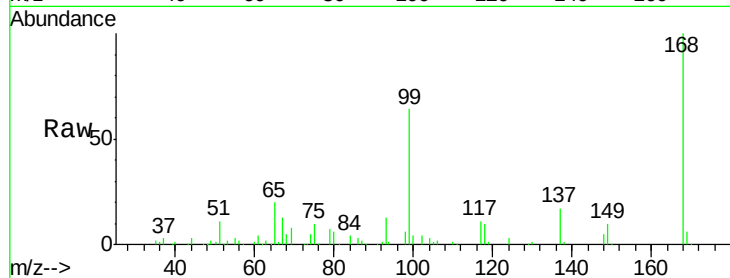
TS-PRE

Tot Ion:168 Resp: 150713

Ion Ratio Lower Upper

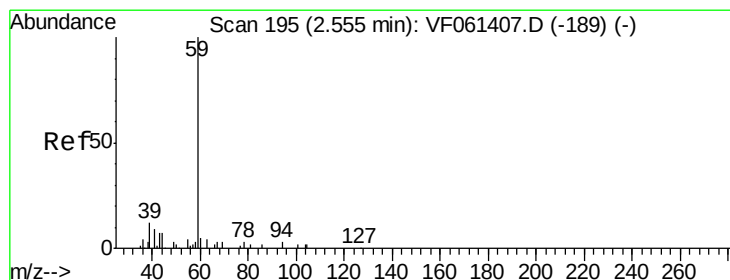
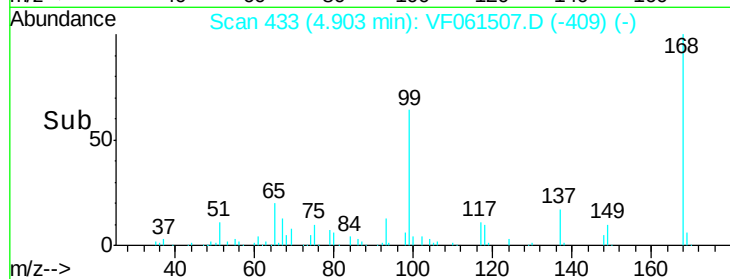
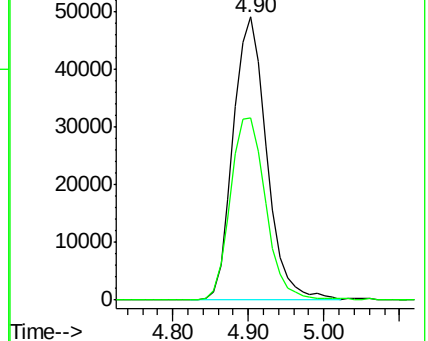
168 100

99 64.4 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 1.143 ug/l

RT: 2.60 min Scan# 200

Delta R.T. 0.05 min

Lab File: VF061507.D

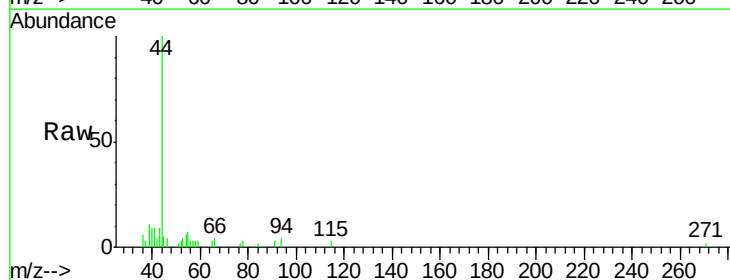
Acq: 24 Jan 2019 18:33

Tgt Ion: 59 Resp: 90

Ion Ratio Lower Upper

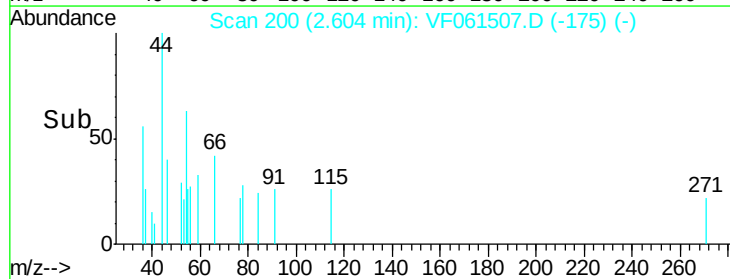
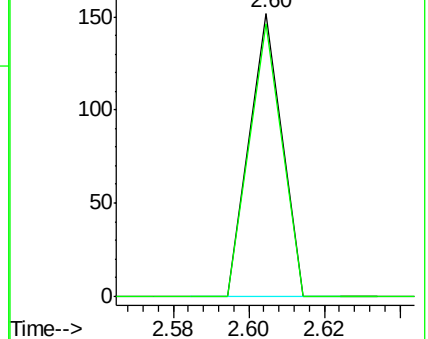
59 100

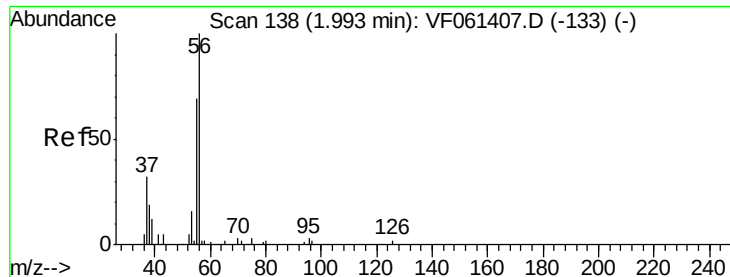
57 96.1 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 19.084 ug/l

RT: 1.95 min Scan# 134

Delta R.T. -0.04 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

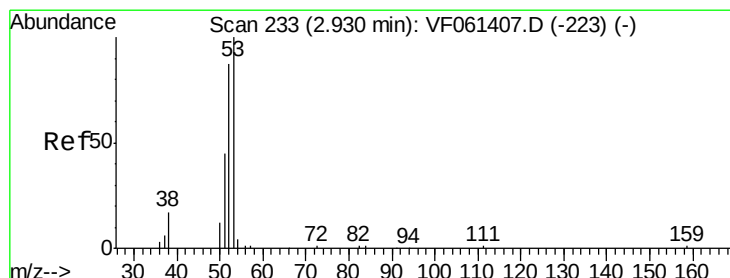
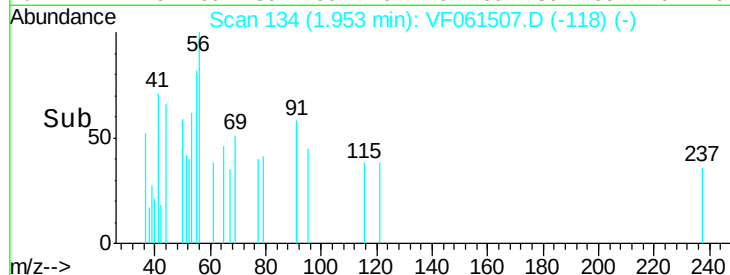
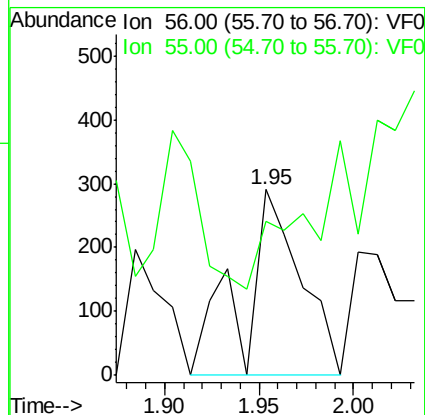
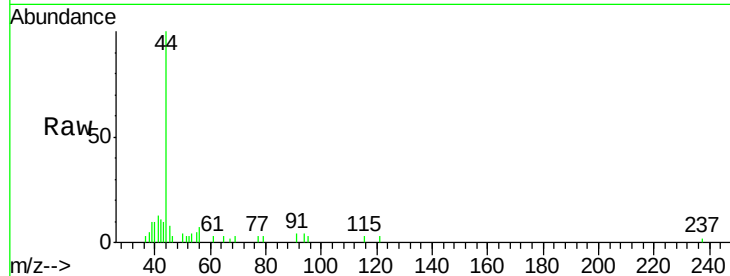
Instrument :
MSVOA_F
ClientSampleId :
TS-PRE

Tot Ion: 56 Resp: 619

Ion Ratio Lower Upper

56 100

55 82.5 57.5 86.3



#15

Acrylonitrile

Concen: 2.607 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

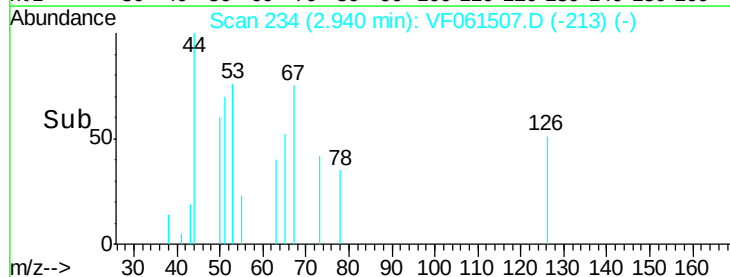
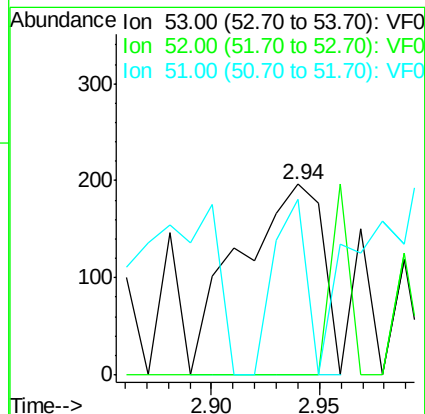
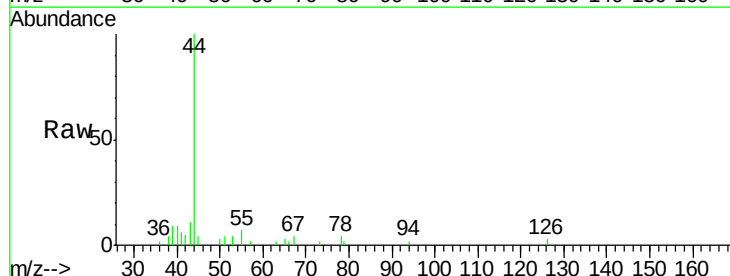
Tgt Ion: 53 Resp: 526

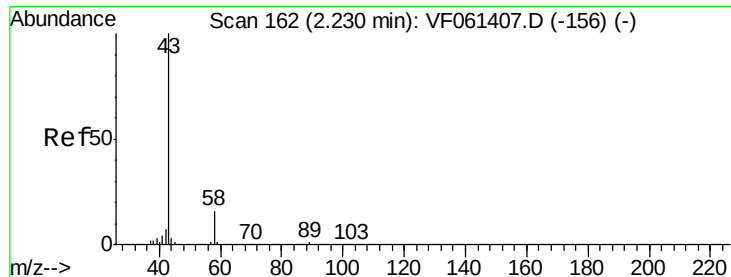
Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 92.3 36.8 55.2#





#16

Acetone

Concen: 99.596 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.02 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

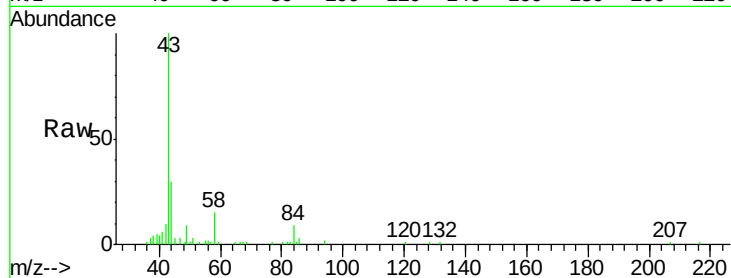
TS-PRE

Tot Ion: 43 Resp: 37178

Ion Ratio Lower Upper

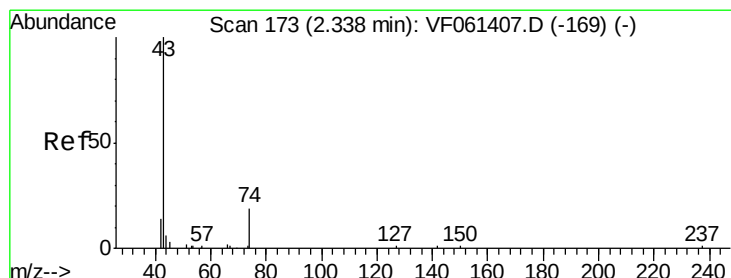
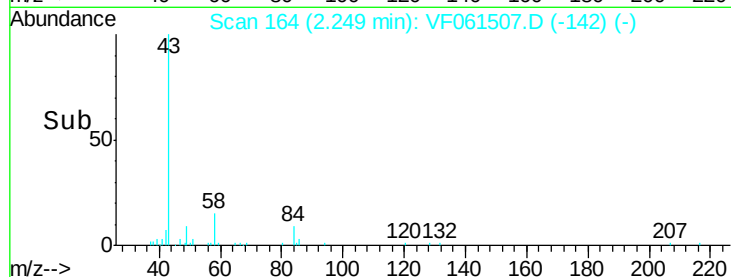
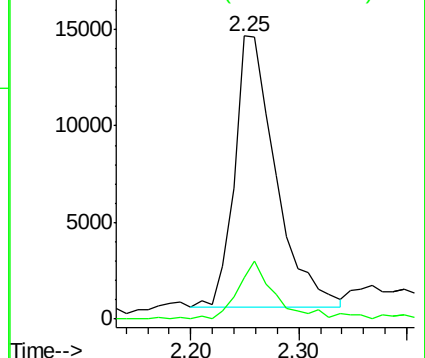
43 100

58 14.8 13.3 19.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 5.252 ug/l

RT: 2.37 min Scan# 176

Delta R.T. 0.03 min

Lab File: VF061507.D

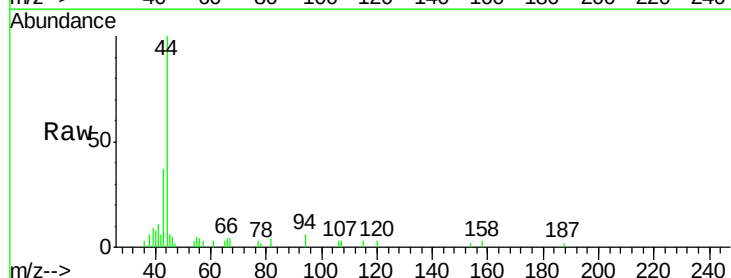
Acq: 24 Jan 2019 18:33

Tgt Ion: 43 Resp: 3888

Ion Ratio Lower Upper

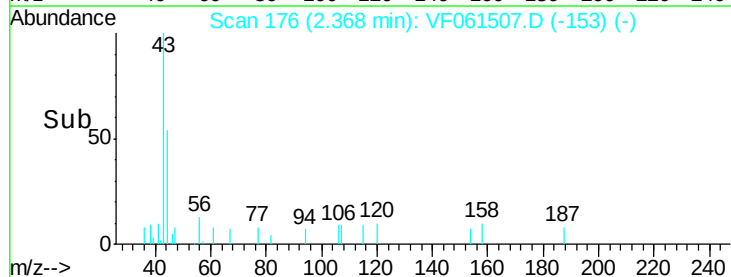
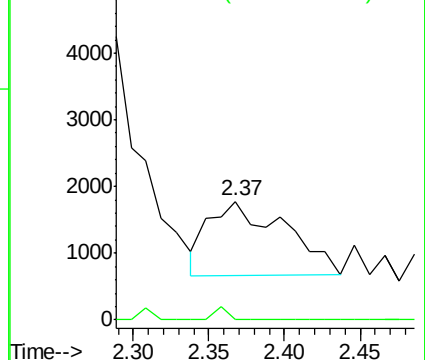
43 100

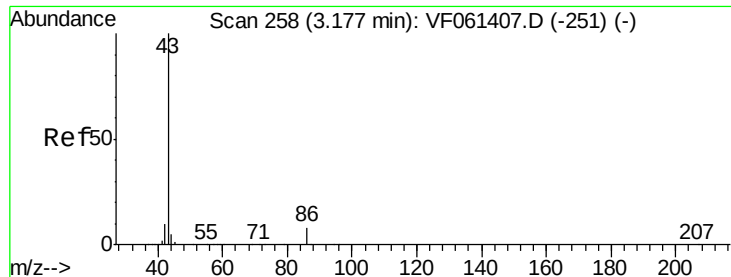
74 0.0 13.4 20.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#23

Vinyl Acetate

Concen: 3.309 ug/l

RT: 3.20 min Scan# 260

Delta R.T. 0.02 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

Instrument :

MSVOA_F

ClientSampled :

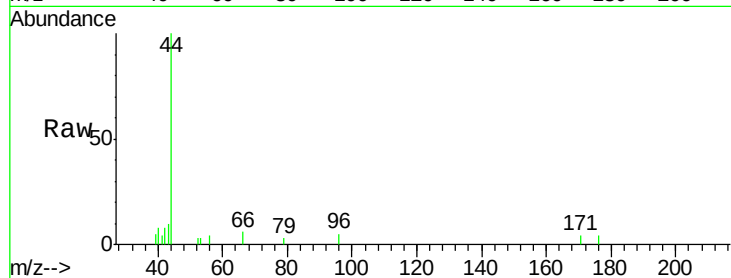
TS-PRE

Tot Ion: 43 Resp: 245

Ion Ratio Lower Upper

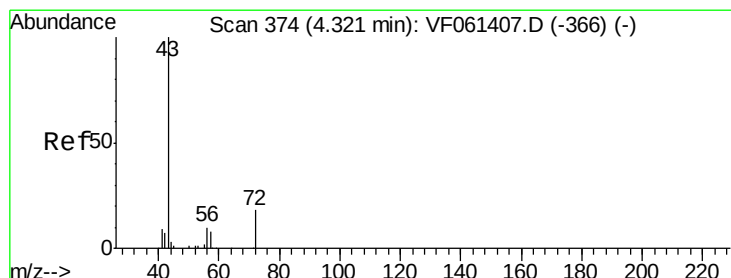
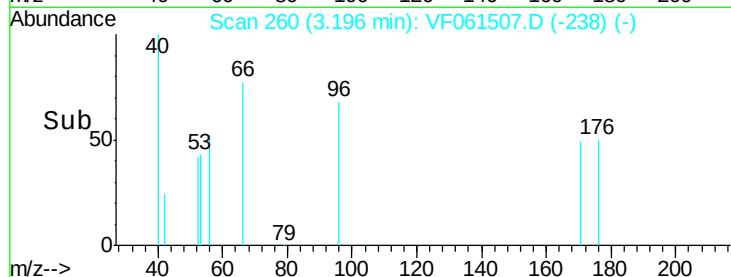
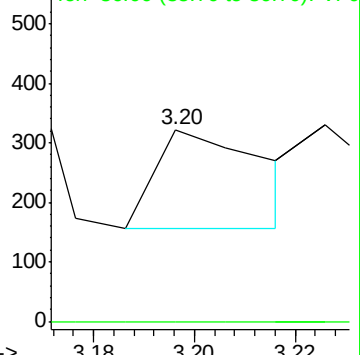
43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 181.656 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.04 min

Lab File: VF061507.D

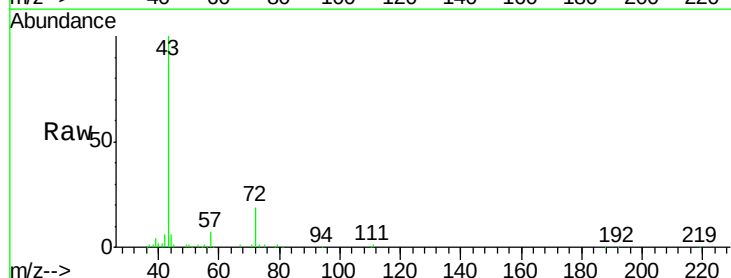
Acq: 24 Jan 2019 18:33

Tgt Ion: 43 Resp: 112765

Ion Ratio Lower Upper

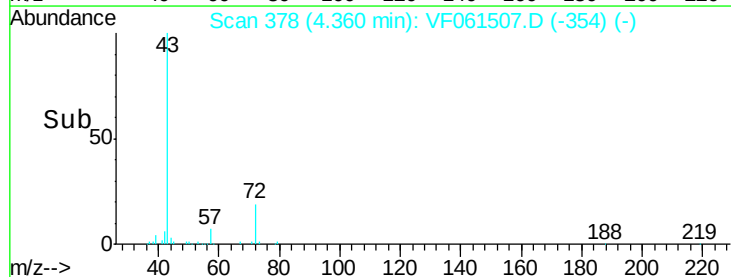
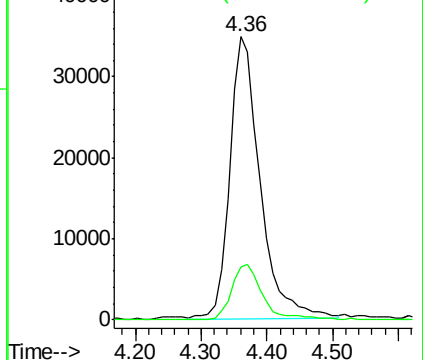
43 100

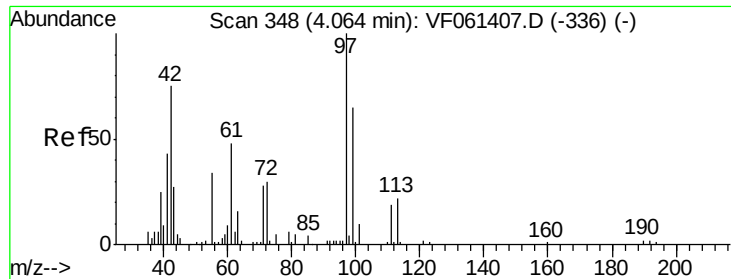
72 18.9 15.8 23.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

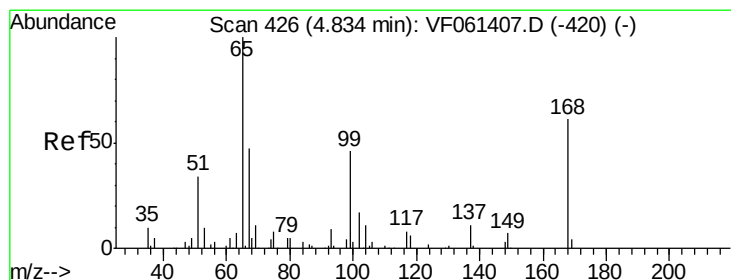
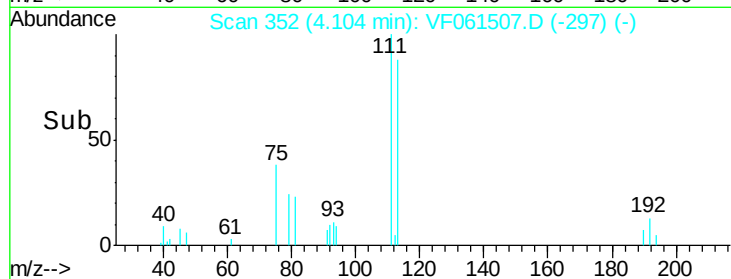
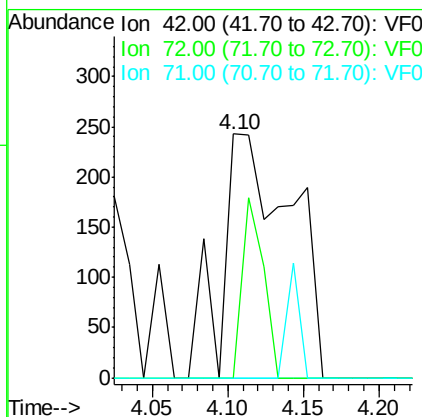
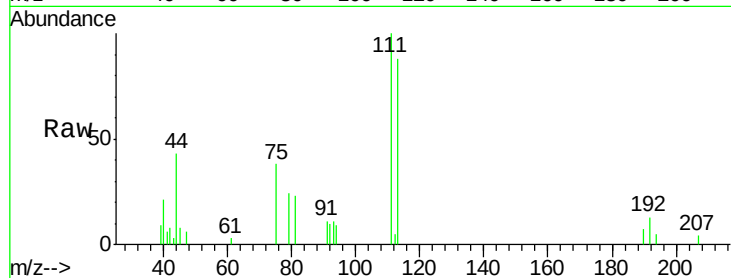




#29
Tetrahydrofuran
Concen: 2.911 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.04 min
Lab File: VF061507.D
Acq: 24 Jan 2019 18:33

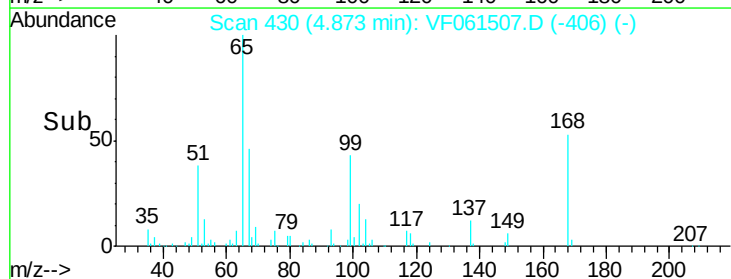
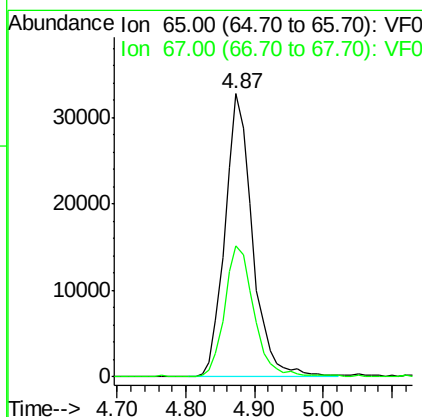
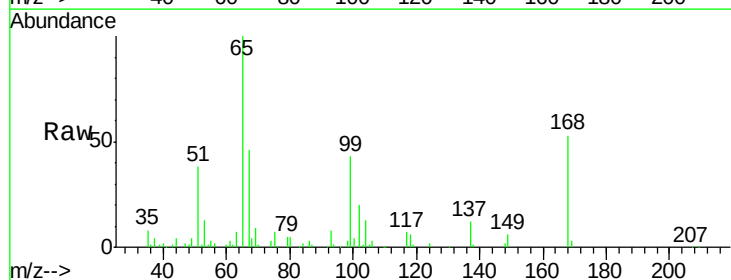
Instrument :
MSVOA_F
ClientSampled :
TS-PRE

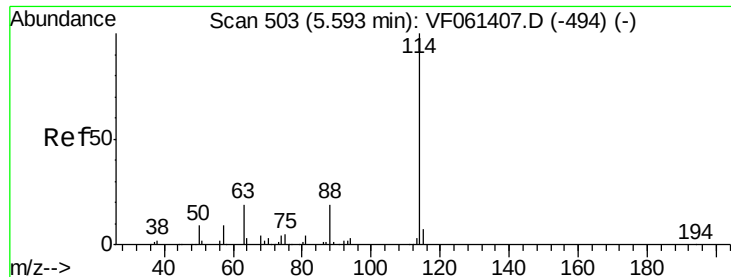
Tot Ion: 42 Resp: 778
Ion Ratio Lower Upper
42 100
72 0.0 28.9 43.3#
71 0.0 29.6 44.4#



#33
1,2-Dichloroethane-d4
Concen: 48.853 ug/l
RT: 4.87 min Scan# 430
Delta R.T. 0.04 min
Lab File: VF061507.D
Acq: 24 Jan 2019 18:33

Tgt Ion: 65 Resp: 90904
Ion Ratio Lower Upper
65 100
67 46.3 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. 0.03 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

Instrument :

MSVOA_F

ClientSampled :

TS-PRE

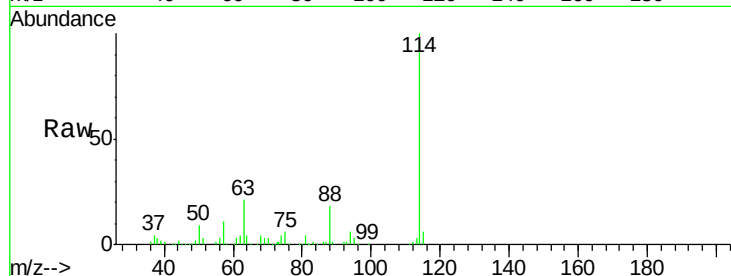
Tot Ion:114 Resp: 265194

Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.0

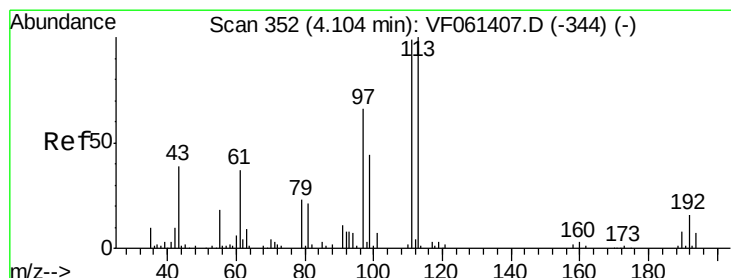
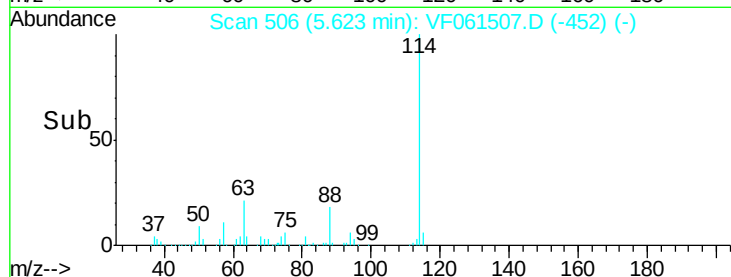
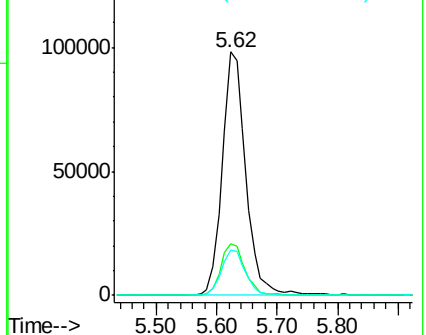
88 18.5 0.0 37.4



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: 47.647 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.04 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

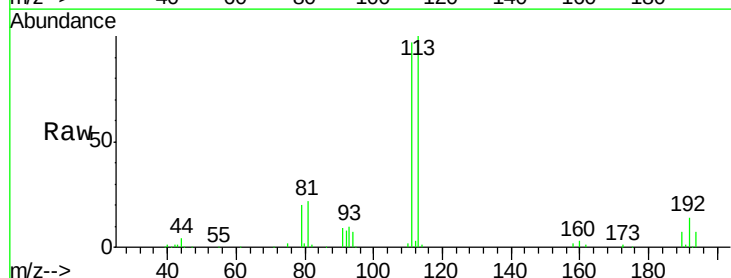
Tgt Ion:113 Resp: 99707

Ion Ratio Lower Upper

113 100

111 97.0 79.4 119.0

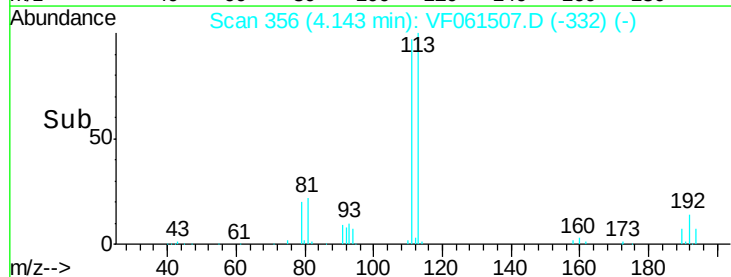
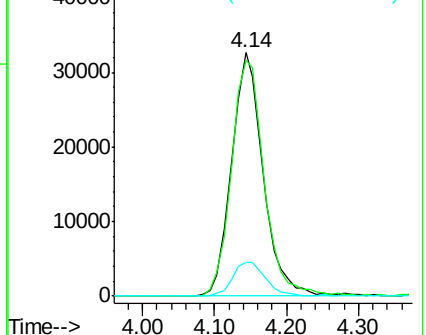
192 14.3 12.4 18.6

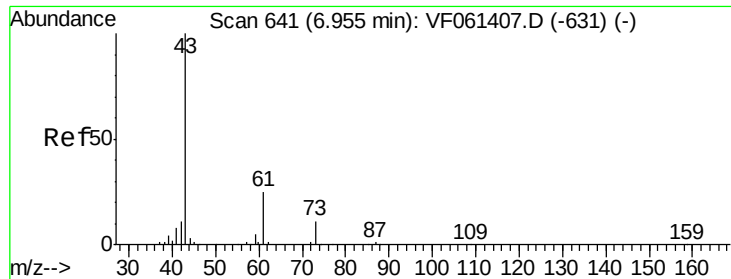


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#43

Isopropyl Acetate

Concen: 7.158 ug/l

RT: 6.92 min Scan# 638

Delta R.T. -0.03 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

TS-PRE

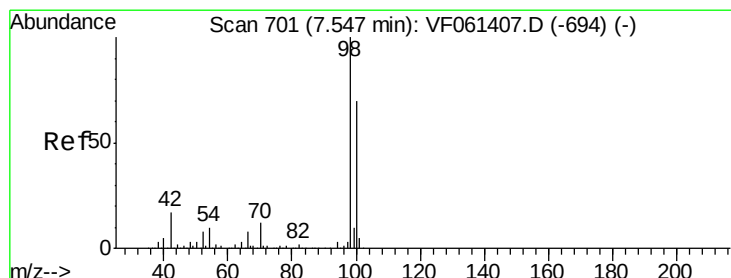
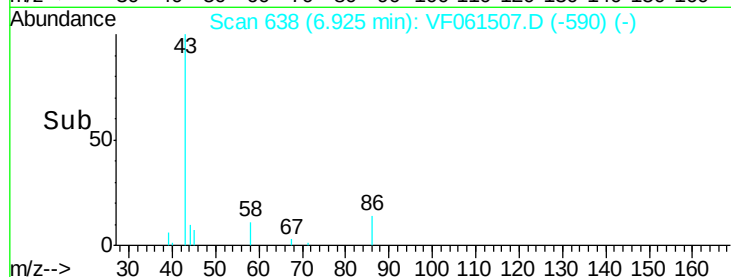
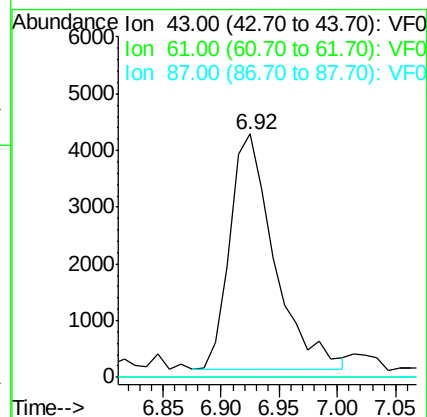
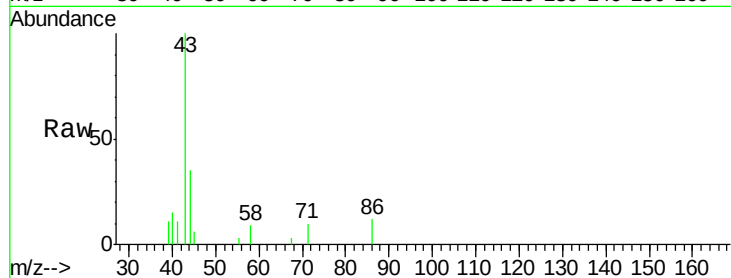
Tot Ion: 43 Resp: 11042

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

87 0.0 0.5 0.7#



#50

Toluene-d8

Concen: 32.792 ug/l

RT: 7.58 min Scan# 704

Delta R.T. 0.03 min

Lab File: VF061507.D

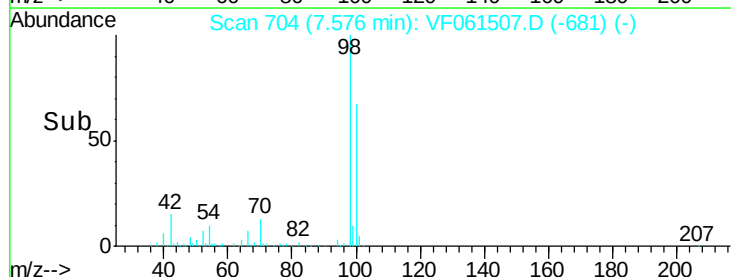
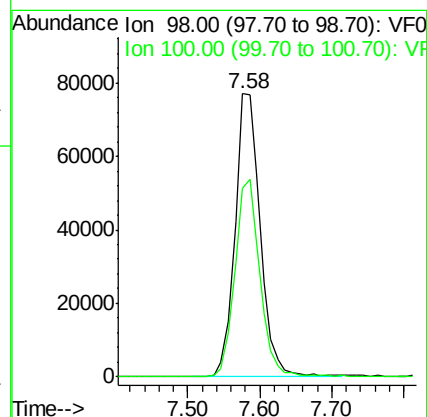
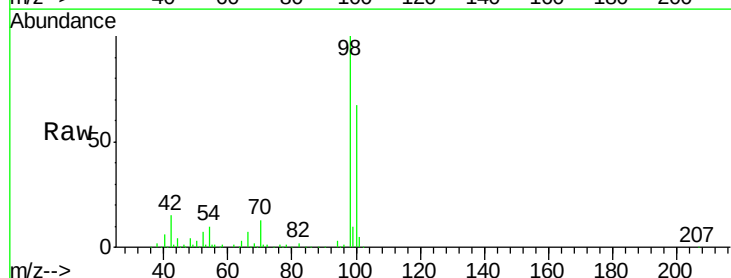
Acq: 24 Jan 2019 18:33

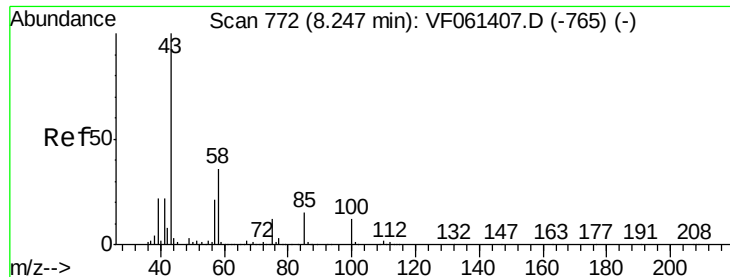
Tgt Ion: 98 Resp: 188008

Ion Ratio Lower Upper

98 100

100 66.8 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 2.440 ug/l

RT: 8.31 min Scan# 778

Delta R.T. 0.06 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

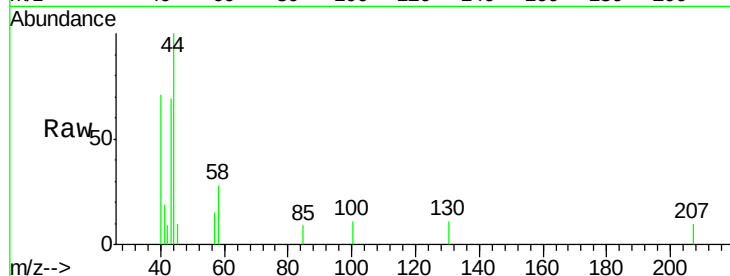
TS-PRE

Tot Ion: 43 Resp: 2767

Ion Ratio Lower Upper

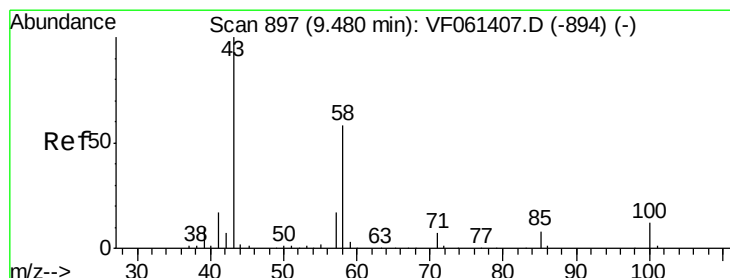
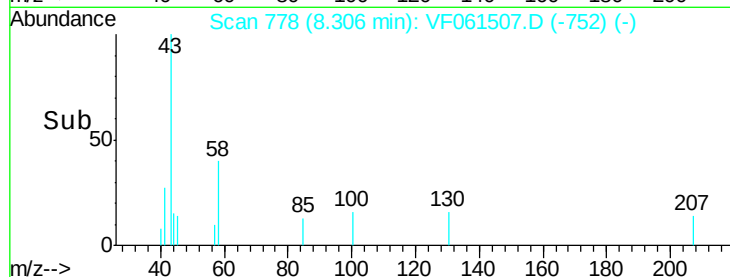
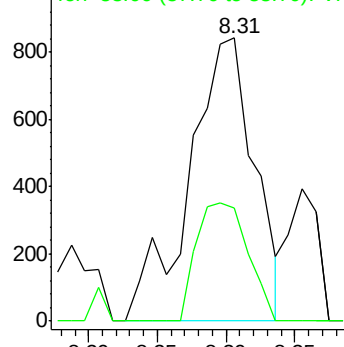
43 100

58 40.1 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 3.974 ug/l

RT: 9.52 min Scan# 901

Delta R.T. 0.04 min

Lab File: VF061507.D

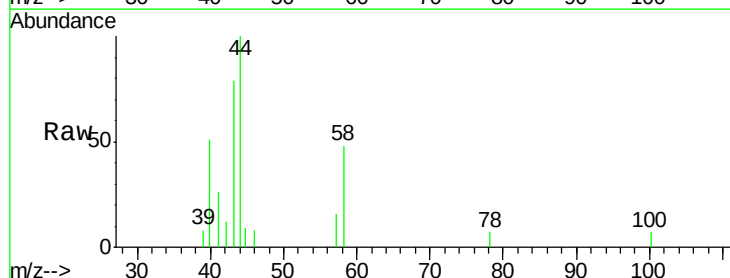
Acq: 24 Jan 2019 18:33

Tgt Ion: 43 Resp: 3143

Ion Ratio Lower Upper

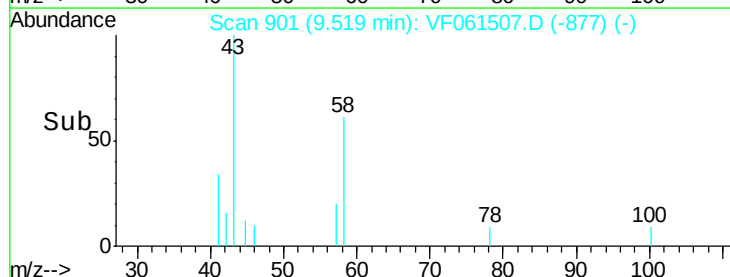
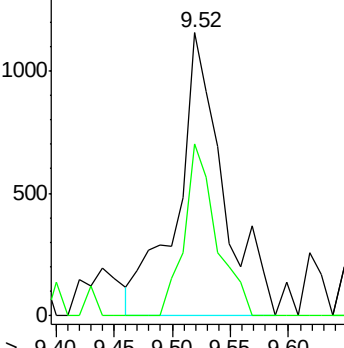
43 100

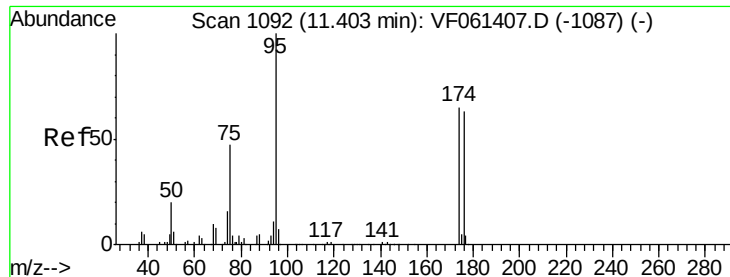
58 60.7 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 17.119 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.03 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

TS-PRE

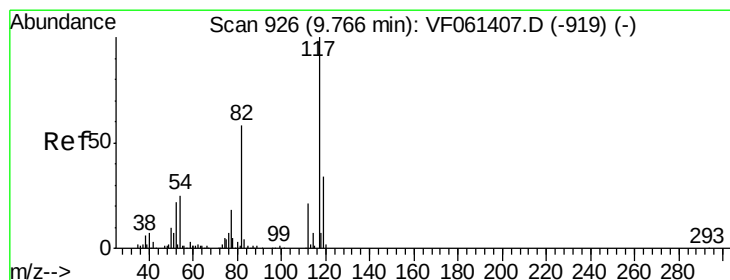
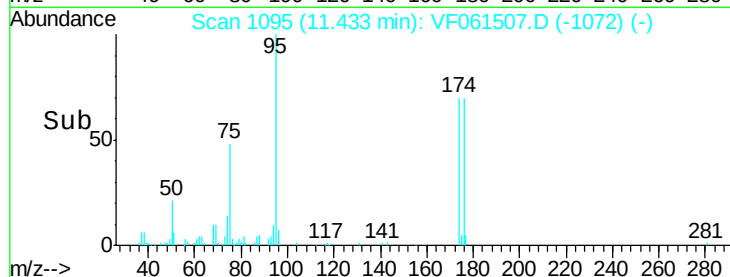
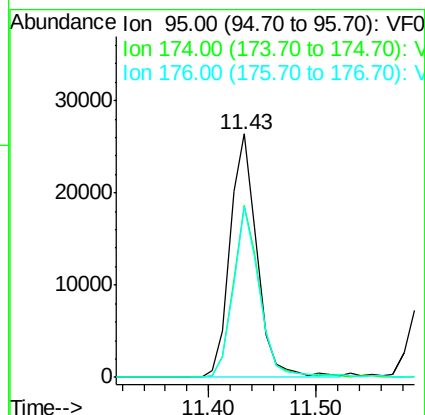
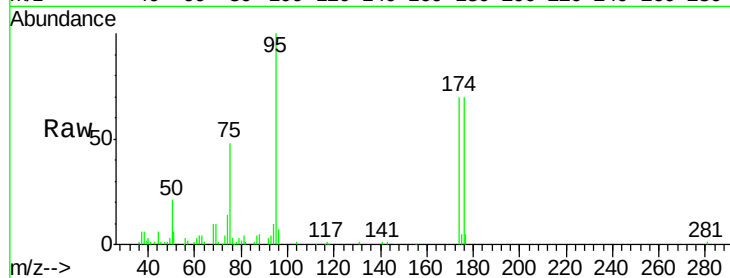
Tot Ion: 95 Resp: 45858

Ion Ratio Lower Upper

95 100

174 70.4 0.0 130.4

176 69.9 0.0 126.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.81 min Scan# 930

Delta R.T. 0.04 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

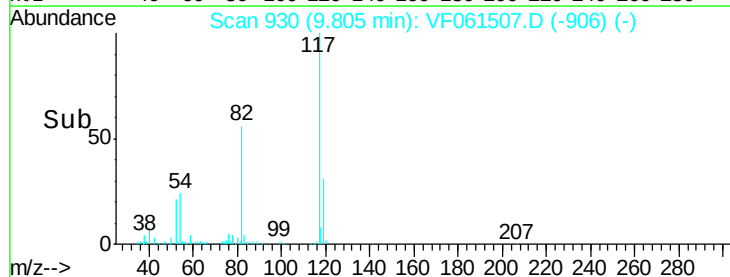
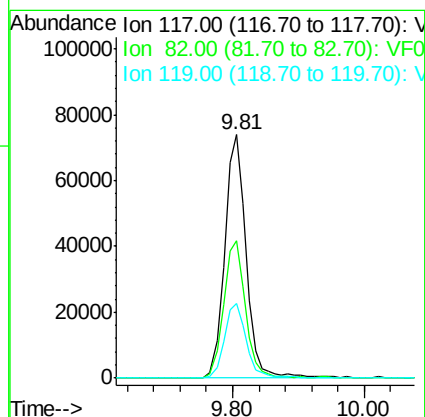
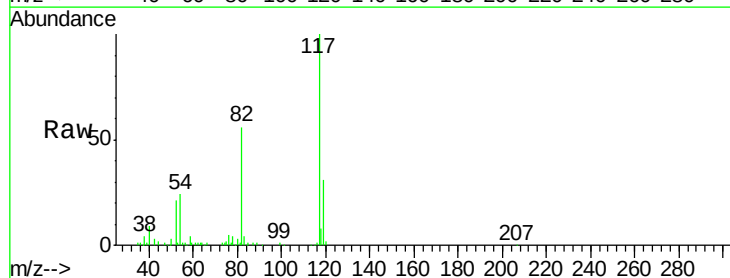
Tgt Ion: 117 Resp: 168167

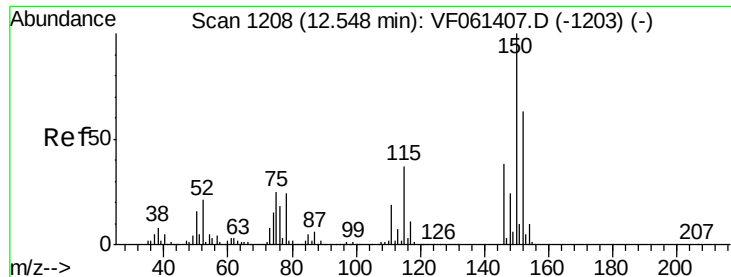
Ion Ratio Lower Upper

117 100

82 56.2 46.4 69.6

119 30.9 27.2 40.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. 0.02 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

TS-PRE

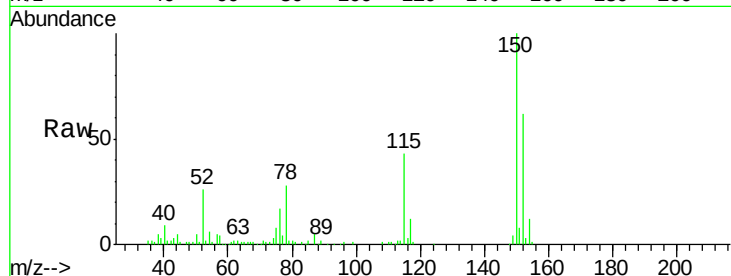
Tot Ion:152 Resp: 37155

Ion Ratio Lower Upper

152 100

115 68.6 30.0 90.0

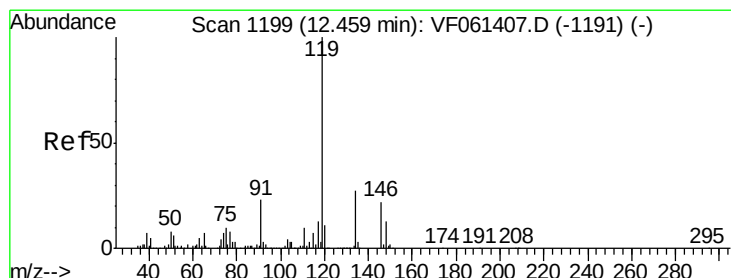
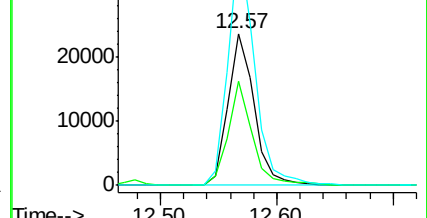
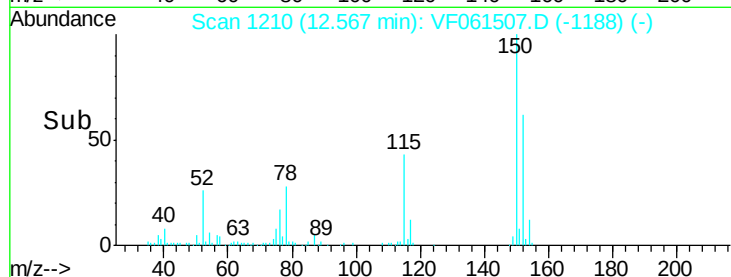
150 160.3 0.0 321.4



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



#86

p-Isopropyltoluene

Concen: 4.514 ug/l

RT: 12.48 min Scan# 1201

Delta R.T. 0.02 min

Lab File: VF061507.D

Acq: 24 Jan 2019 18:33

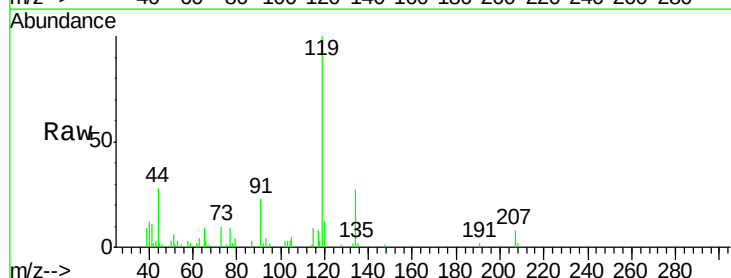
Tgt Ion:119 Resp: 12703

Ion Ratio Lower Upper

119 100

134 26.6 13.4 40.2

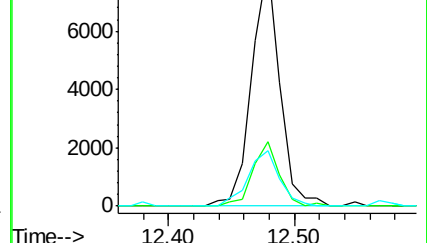
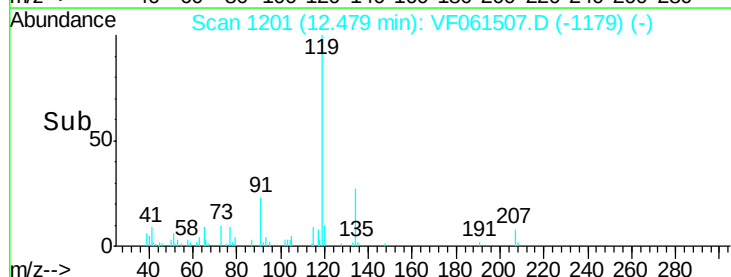
91 22.6 11.4 34.2

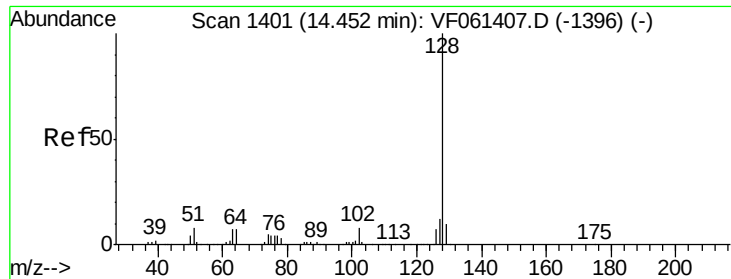


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#95
Naphthalene
Concen: 2.176 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. 0.02 min
Lab File: VF061507.D
Acq: 24 Jan 2019 18:33

Instrument :
MSVOA_F
ClientSampleId :
TS-PRE

Tot Ion	Ratio	Lower	Upper
128	100		
127	22.6	9.5	14.3#
129	13.6	8.4	12.6#

