

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF012319\
 Data File : VF061484.D
 Acq On : 23 Jan 2019 15:48
 Operator : VA/AP
 Sample : K1223-02
 Misc : 5.37g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-N

Quant Time: Jan 24 02:55:21 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	4.86	168	126386	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	236317	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	161474	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	51842	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	100383	64.33	ug/l	0.00
Spiked Amount			Recovery	=	128.66%	
35) Dibromofluoromethane	4.10	113	114348	61.32	ug/l	0.00
Spiked Amount			Recovery	=	122.64%	
50) Toluene-d8	7.54	98	223889	43.82	ug/l	0.00
Spiked Amount			Recovery	=	87.64%	
62) 4-Bromofluorobenzene	11.40	95	78569	32.91	ug/l	0.00
Spiked Amount			Recovery	=	65.82%	

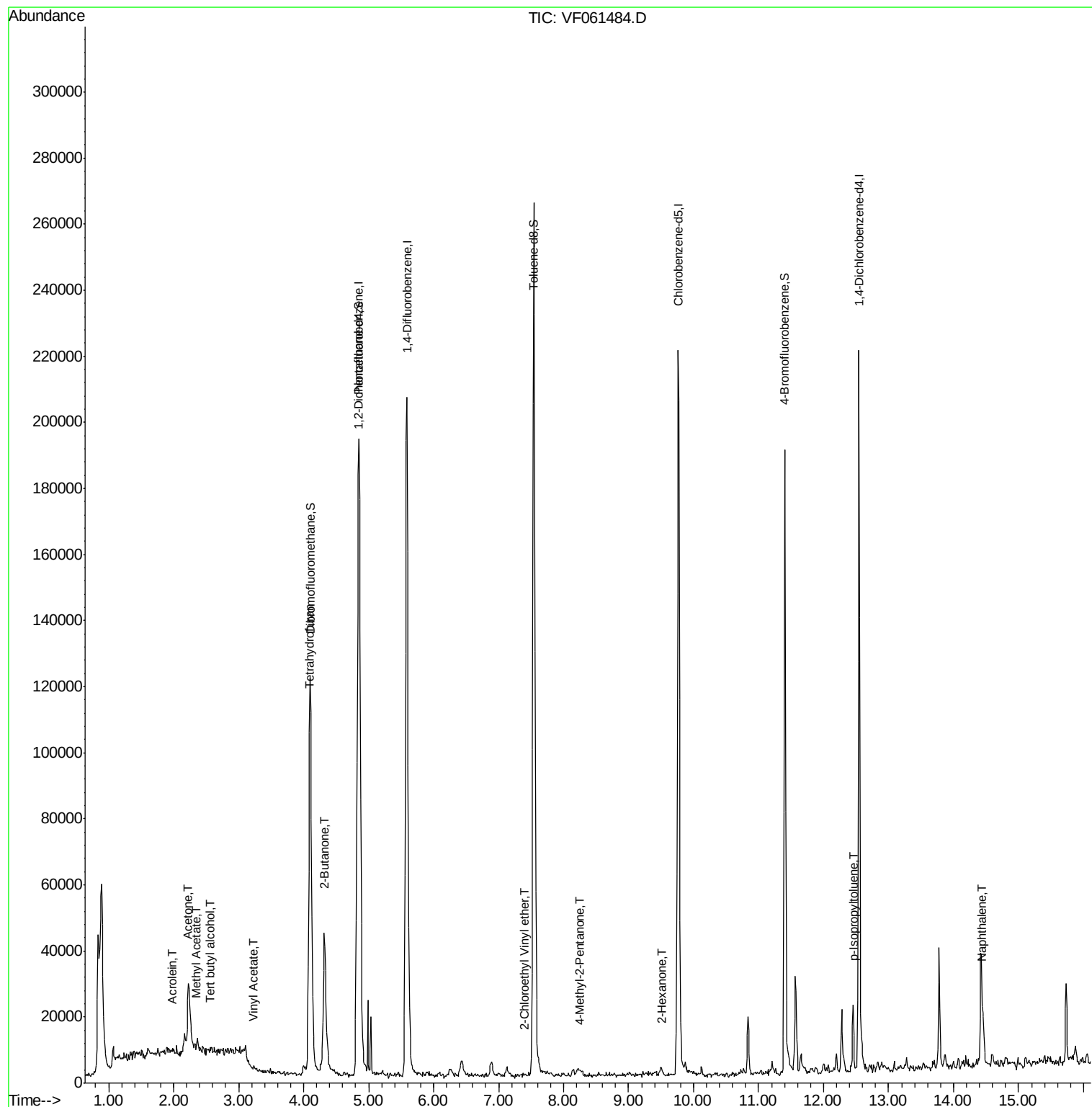
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	86	1.302	ug/l #	64
13) Acrolein	1.98	56	317	15.679	ug/l #	67
14) Allyl chloride	2.11	41	173	Below Cal	#	85
16) Acetone	2.23	43	29657	94.740	ug/l	93
18) Methyl Acetate	2.34	43	1241	1.999	ug/l #	80
23) Vinyl Acetate	3.22	43	729	3.603	ug/l #	78
25) 2-Butanone	4.32	43	87225	167.559	ug/l	100
29) Tetrahydrofuran	4.08	42	594	2.650	ug/l #	67
49) 1,4-Dioxane	6.53	88	60	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.26	43	2525	2.499	ug/l	89
58) 2-Chloroethyl Vinyl ether	7.40	63	63	27.921	ug/l #	47
59) 2-Hexanone	9.50	43	2286	3.244	ug/l	92
86) p-Isopropyltoluene	12.45	119	11187	2.849	ug/l	98
95) Naphthalene	14.45	128	3906	1.762	ug/l	97

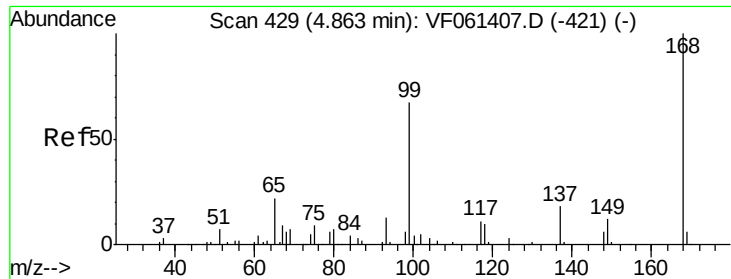
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061484.D

Acq: 23 Jan 2019 15:48

Instrument :

MSVOA_F

ClientSampleId :

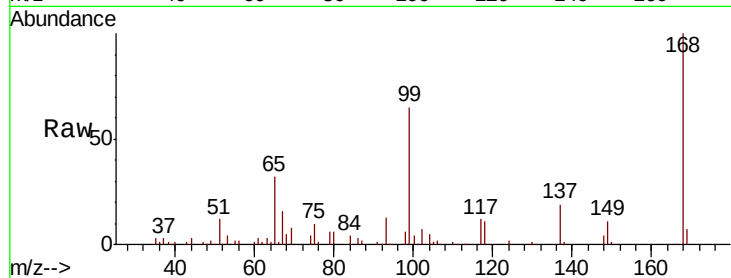
TS-N

Tgt Ion:168 Resp: 126386

Ion Ratio Lower Upper

168 100

99 65.4 53.5 80.3

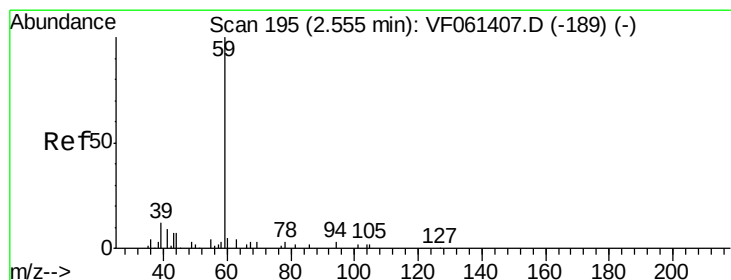
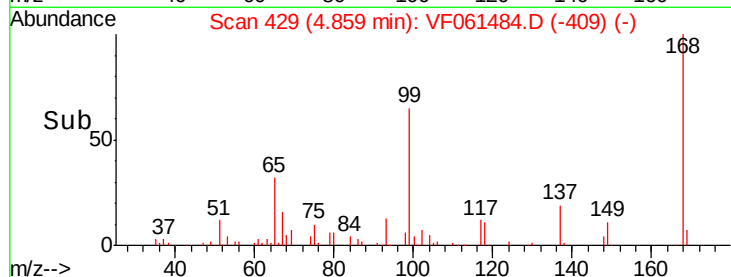


Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

Time-->



#11

Tert butyl alcohol

Concen: 1.302 ug/l

RT: 2.55 min Scan# 195

Delta R.T. -0.00 min

Lab File: VF061484.D

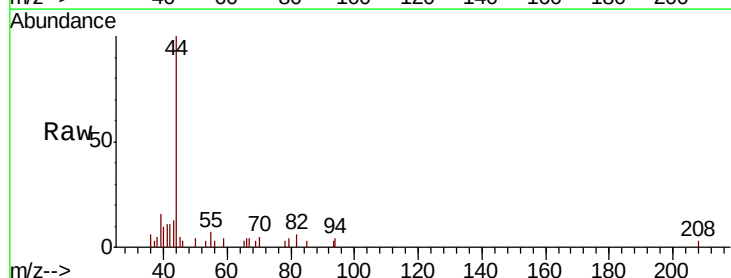
Acq: 23 Jan 2019 15:48

Tgt Ion: 59 Resp: 86

Ion Ratio Lower Upper

59 100

57 0.0 11.9 17.9#

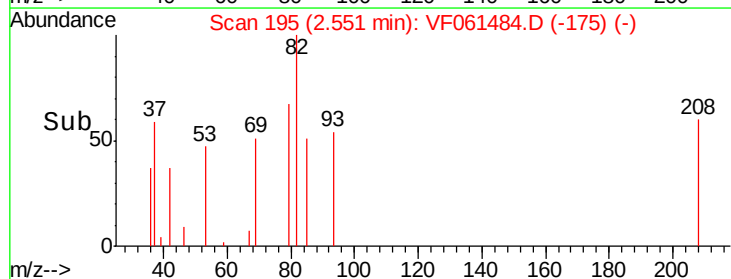


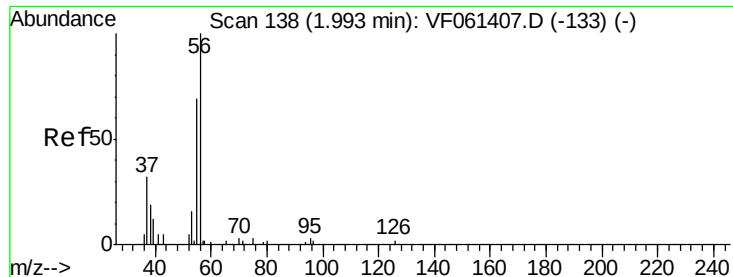
Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.55

Time-->





#13

Acrolein

Concen: 15.679 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF061484.D

Acq: 23 Jan 2019 15:48

Instrument :

MSVOA_F

ClientSampleId :

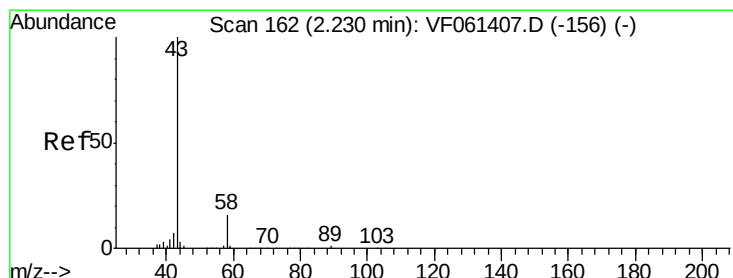
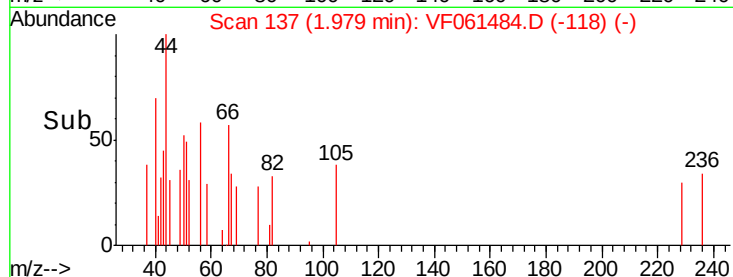
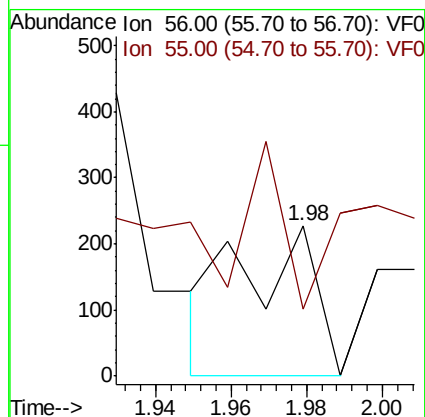
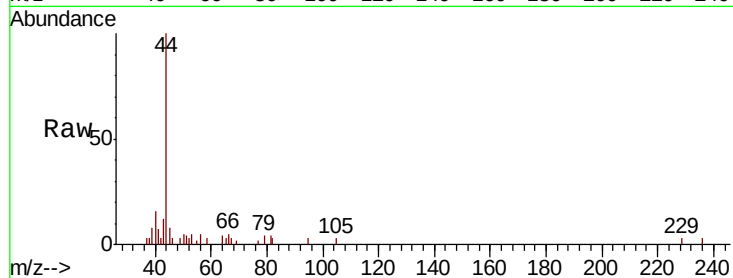
TS-N

Tgt Ion: 56 Resp: 317

Ion Ratio Lower Upper

56 100

55 44.7 57.5 86.3#



#16

Acetone

Concen: 94.740 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF061484.D

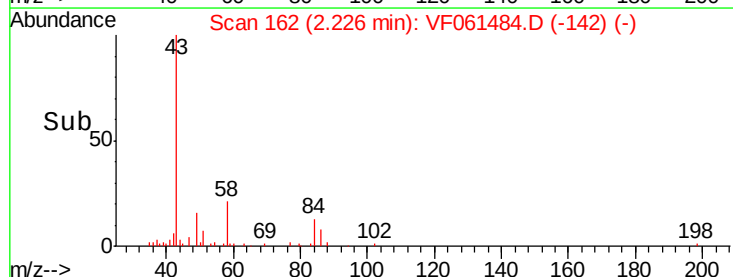
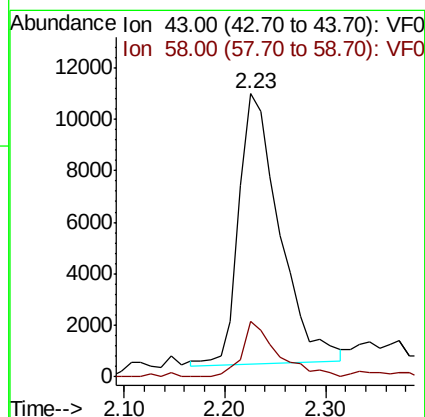
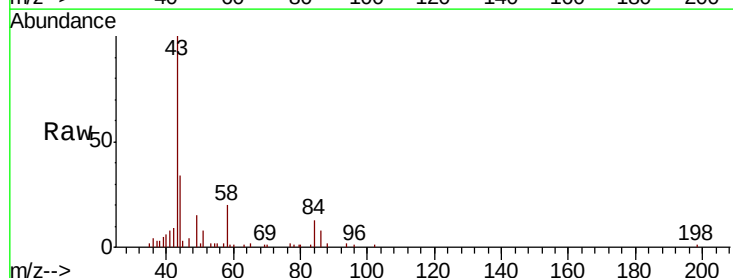
Acq: 23 Jan 2019 15:48

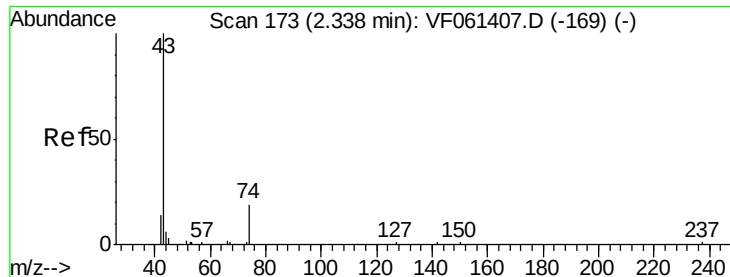
Tgt Ion: 43 Resp: 29657

Ion Ratio Lower Upper

43 100

58 19.6 13.3 19.9

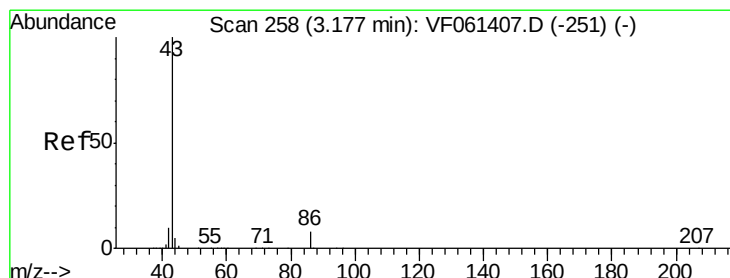
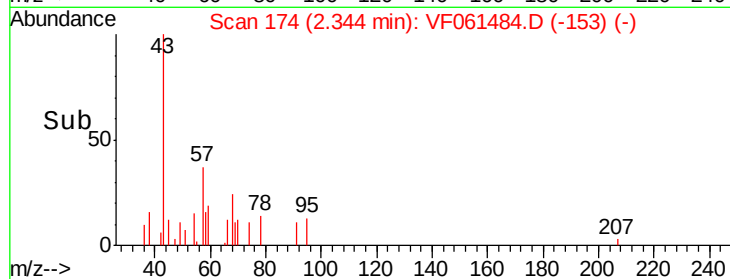
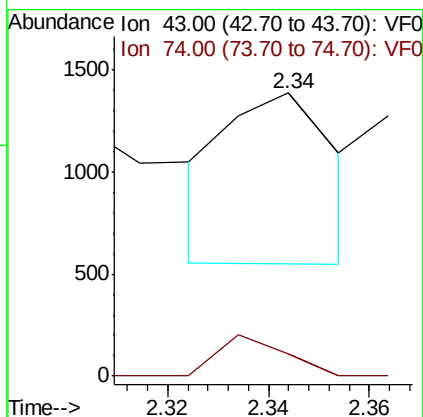
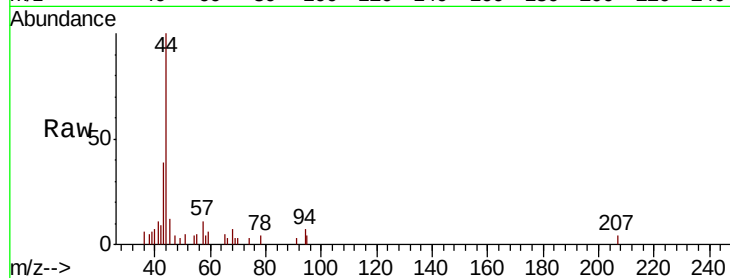




#18
Methyl Acetate
Concen: 1.999 ug/l
RT: 2.34 min Scan# 174
Delta R.T. 0.01 min
Lab File: VF061484.D
Acq: 23 Jan 2019 15:48

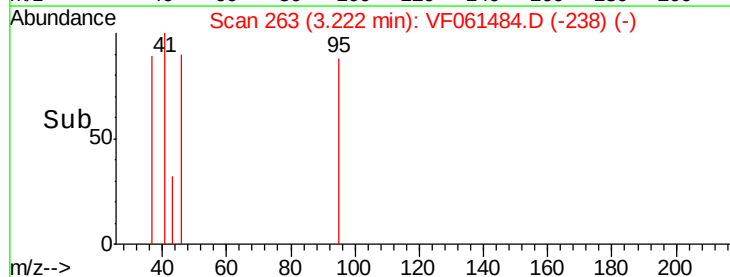
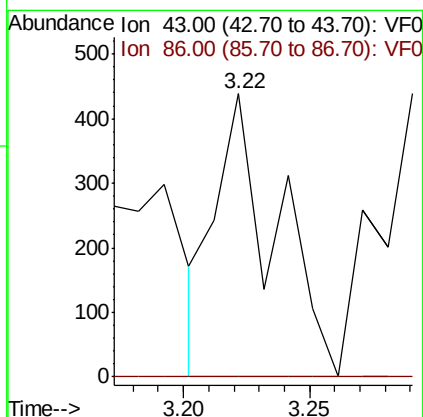
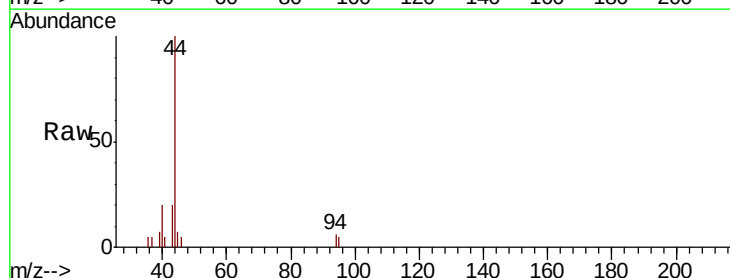
Instrument :
MSVOA_F
ClientSampleId :
TS-N

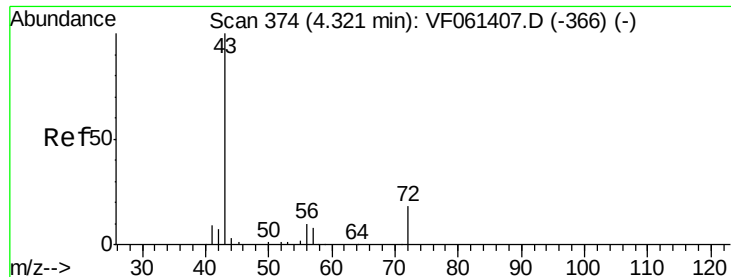
Tgt Ion: 43 Resp: 1241
Ion Ratio Lower Upper
43 100
74 8.0 13.4 20.0#



#23
Vinyl Acetate
Concen: 3.603 ug/l
RT: 3.22 min Scan# 263
Delta R.T. 0.05 min
Lab File: VF061484.D
Acq: 23 Jan 2019 15:48

Tgt Ion: 43 Resp: 729
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#





#25

2-Butanone

Concen: 167.559 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.00 min

Lab File: VF061484.D

Acq: 23 Jan 2019 15:48

Instrument :

MSVOA_F

ClientSampleId :

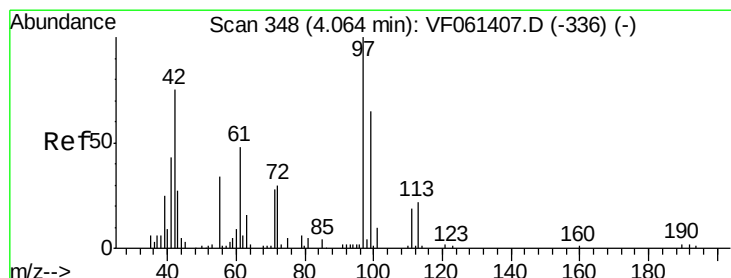
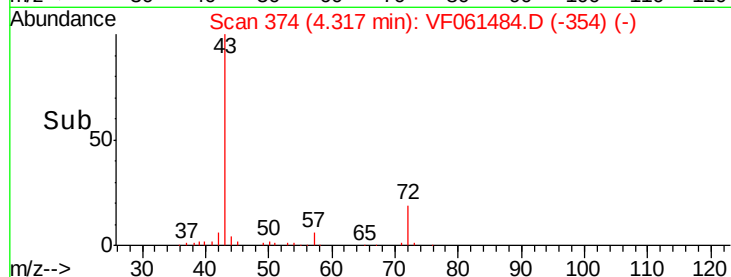
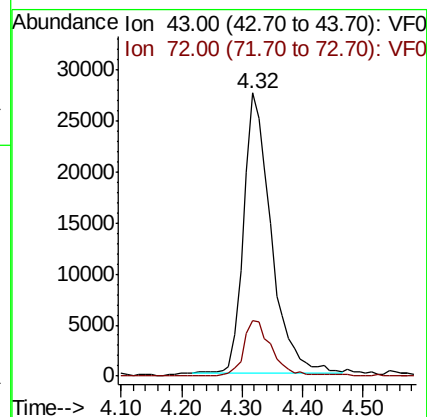
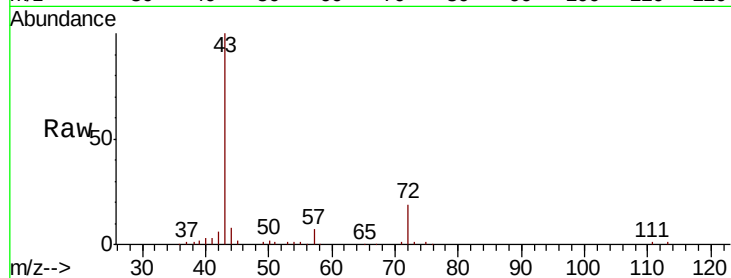
TS-N

Tgt Ion: 43 Resp: 87225

Ion Ratio Lower Upper

43 100

72 19.5 15.8 23.6



#29

Tetrahydrofuran

Concen: 2.650 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.02 min

Lab File: VF061484.D

Acq: 23 Jan 2019 15:48

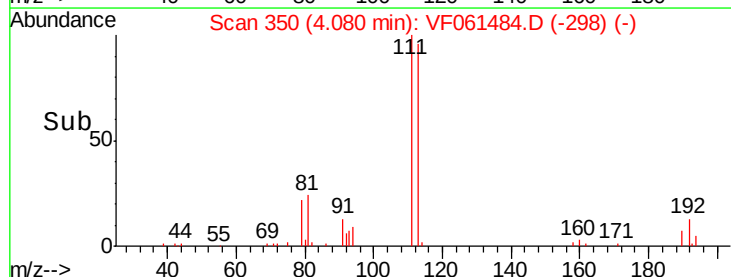
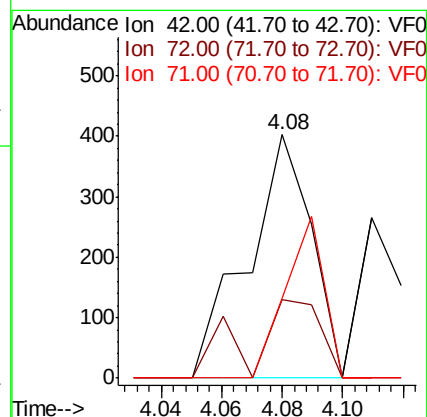
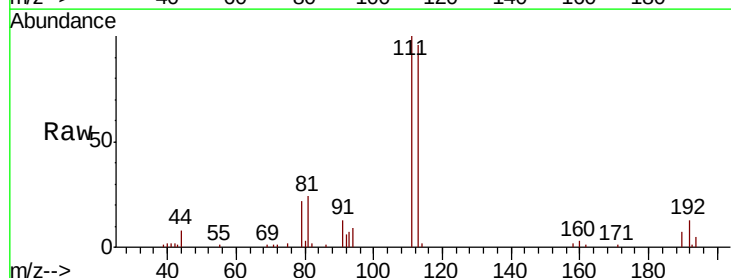
Tgt Ion: 42 Resp: 594

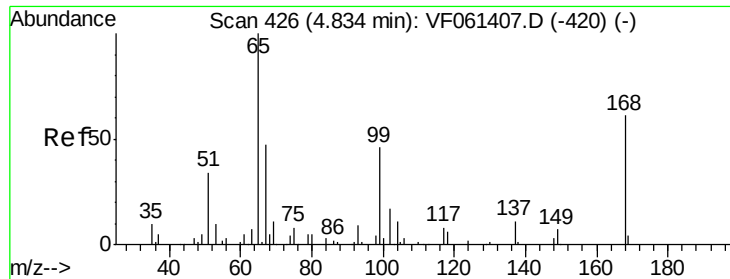
Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

71 39.9 29.6 44.4

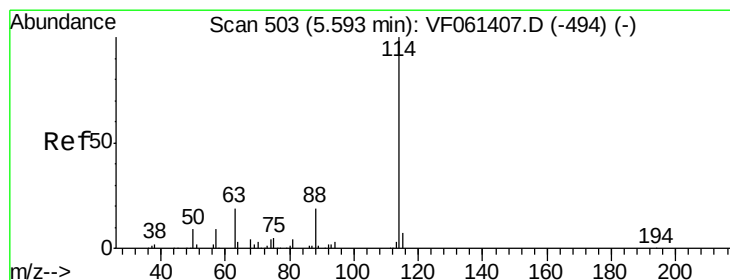
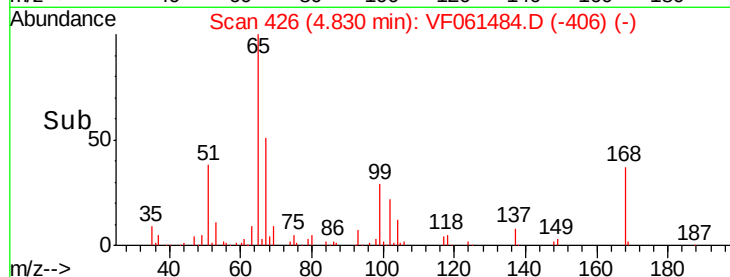
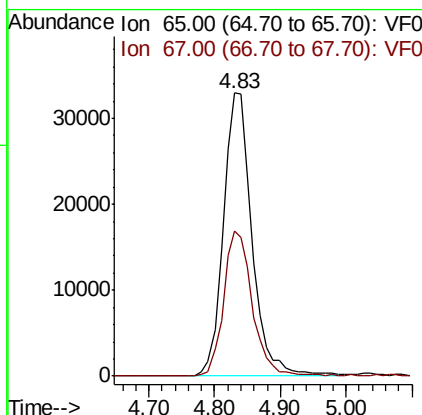
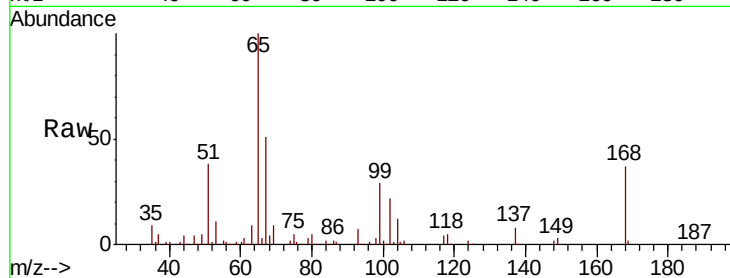




#33
 1,2-Dichloroethane-d4
 Concen: 64.332 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.00 min
 Lab File: VF061484.D
 Acq: 23 Jan 2019 15:48

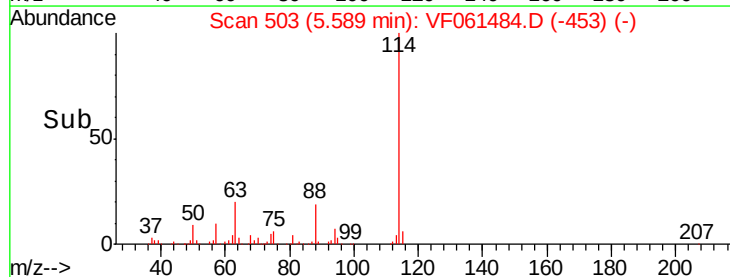
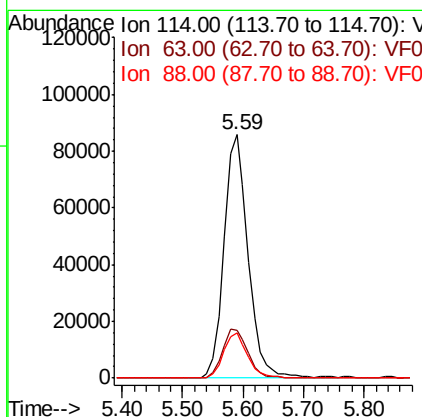
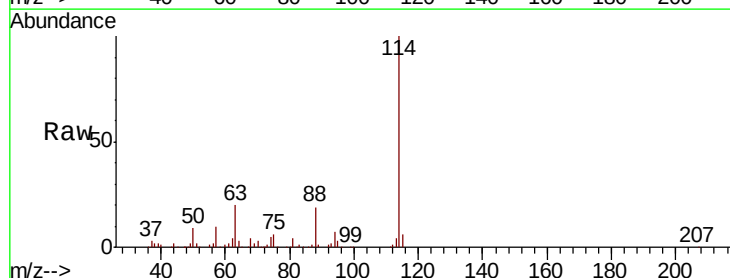
Instrument :
 MSVOA_F
 ClientSampleId :
 TS-N

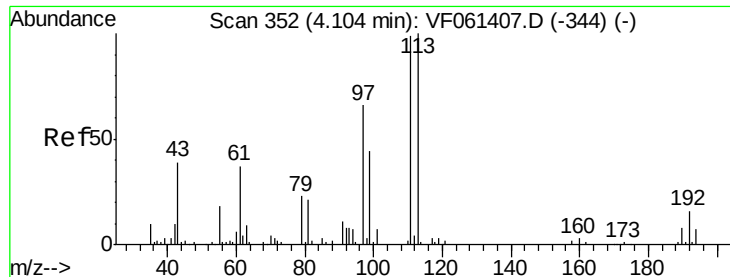
Tgt Ion: 65 Resp: 100383
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VF061484.D
 Acq: 23 Jan 2019 15:48

Tgt Ion: 114 Resp: 236317
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 18.7 0.0 37.4





#35

Dibromofluoromethane

Concen: 61.321 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061484.D

Acq: 23 Jan 2019 15:48

Instrument :

MSVOA_F

ClientSampleId :

TS-N

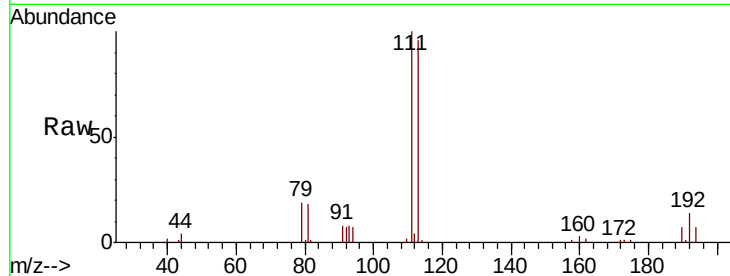
Tgt Ion:113 Resp: 114348

Ion Ratio Lower Upper

113 100

111 104.6 79.4 119.0

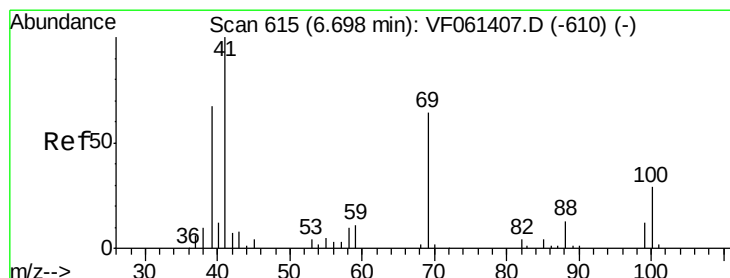
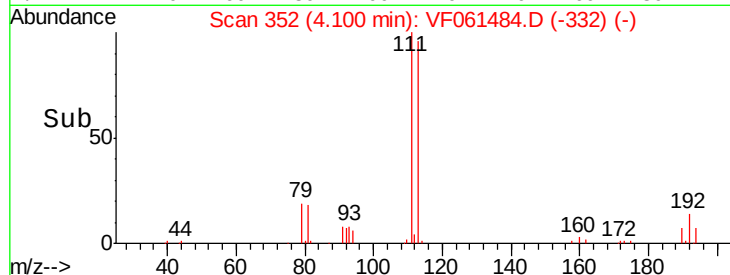
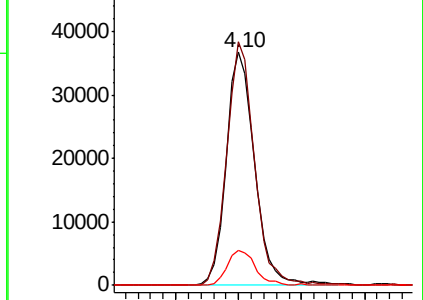
192 15.0 12.4 18.6



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.53 min Scan# 598

Delta R.T. -0.17 min

Lab File: VF061484.D

Acq: 23 Jan 2019 15:48

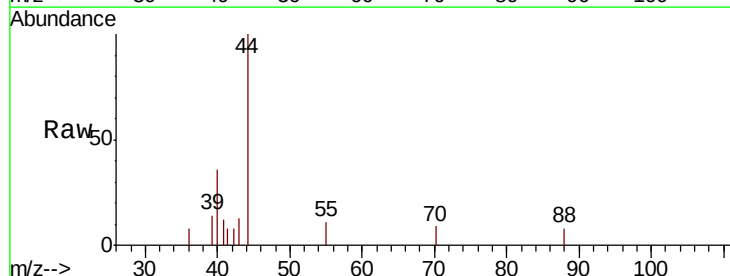
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 167.6 55.5 83.3#

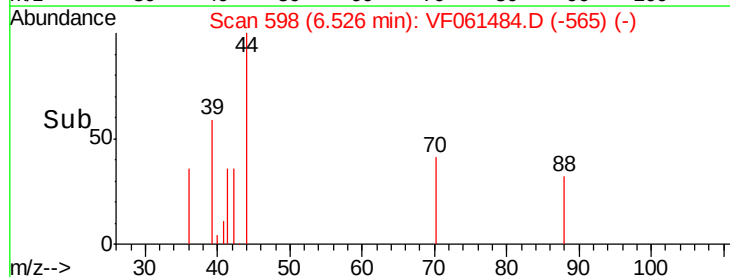
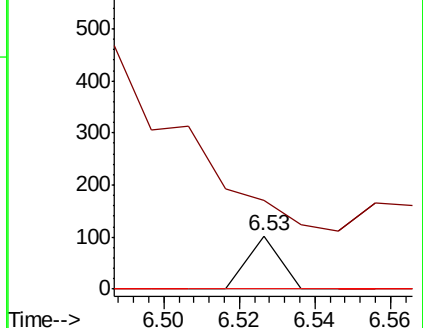
58 0.0 59.9 89.9#

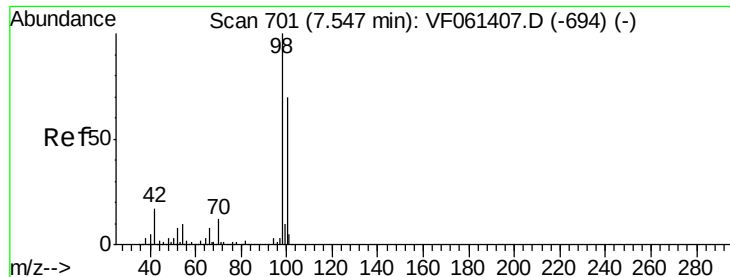


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 43.822 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF061484.D

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Instrument :

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ClientSampleId :

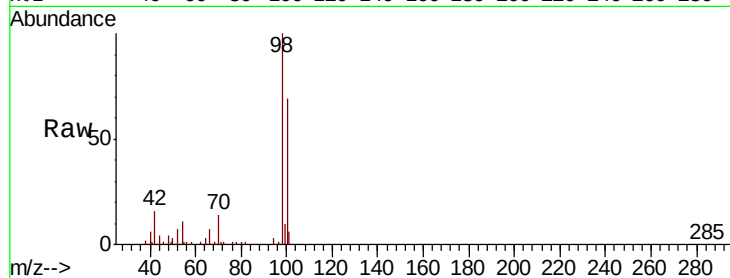
TS-N

Tgt Ion: 98 Resp: 223889

Ion Ratio Lower Upper

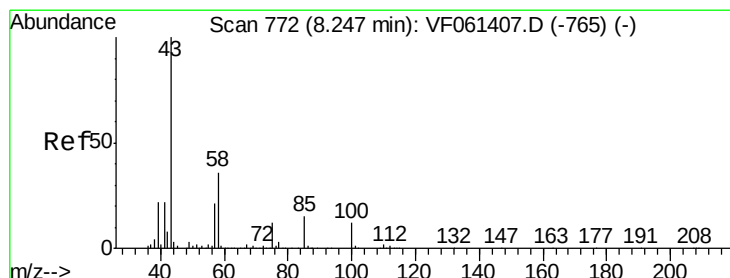
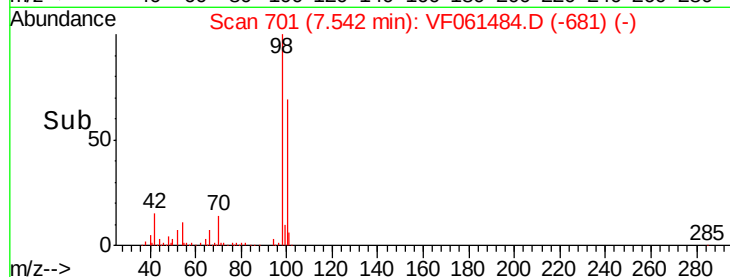
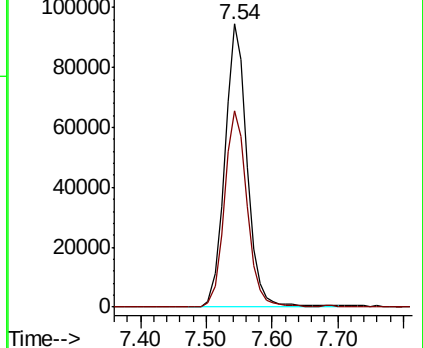
98 100

100 69.2 55.6 83.4



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: 2.499 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.02 min

Lab File: VF061484.D

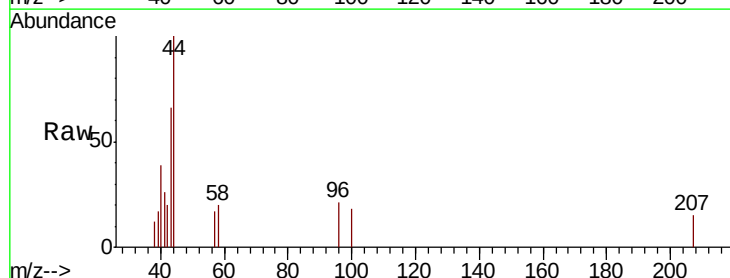
Acq: 23 Jan 2019 15:48

Tgt Ion: 43 Resp: 2525

Ion Ratio Lower Upper

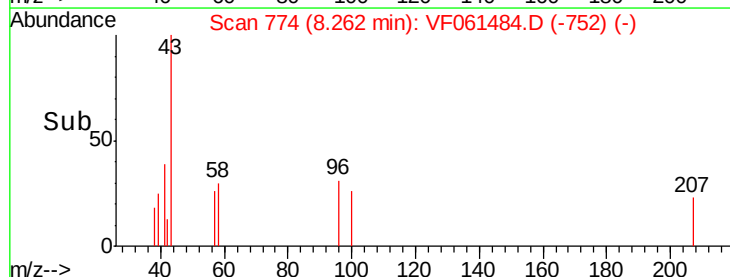
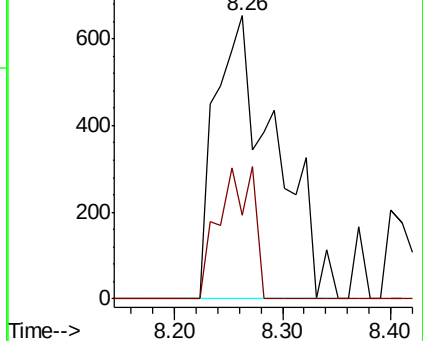
43 100

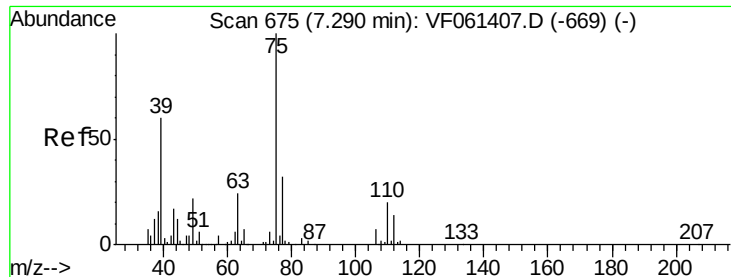
58 29.7 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 27.921 ug/l

RT: 7.40 min Scan# 687

Delta R.T. 0.11 min

Lab File: VF061484.D

Acq: 23 Jan 2019 15:48

Instrument :

MSVOA_F

ClientSampled :

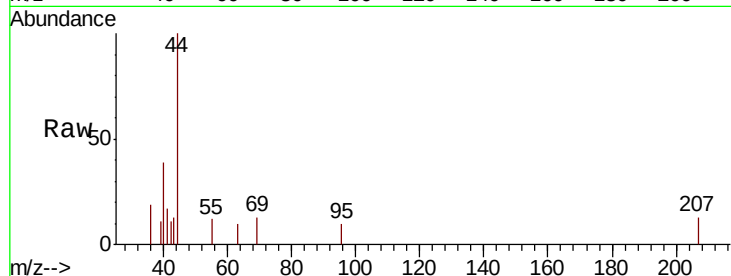
TS-N

Tgt Ion: 63 Resp: 63

Ion Ratio Lower Upper

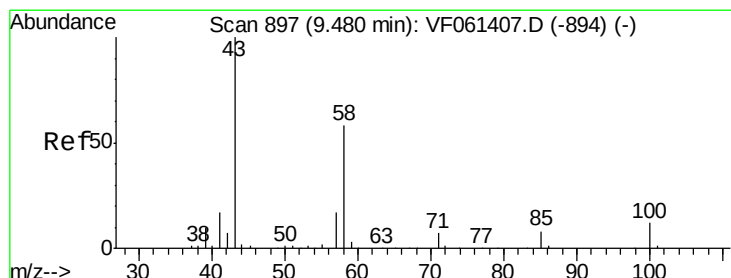
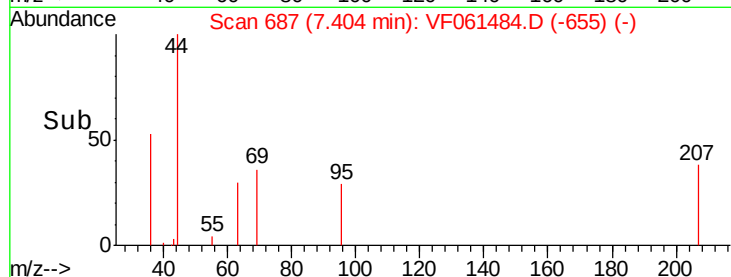
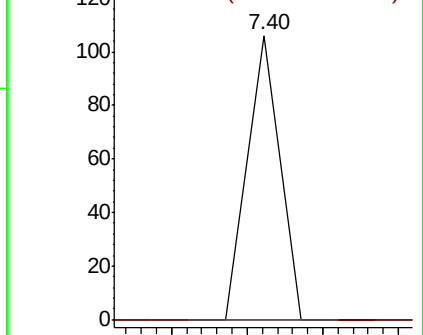
63 100

106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): VF0



#59

2-Hexanone

Concen: 3.244 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.02 min

Lab File: VF061484.D

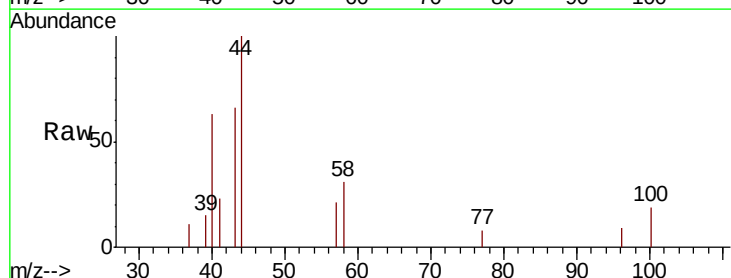
Acq: 23 Jan 2019 15:48

Tgt Ion: 43 Resp: 2286

Ion Ratio Lower Upper

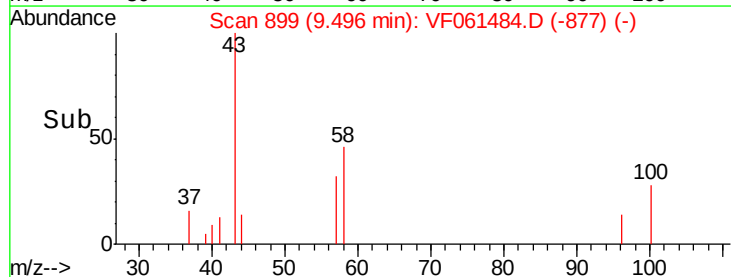
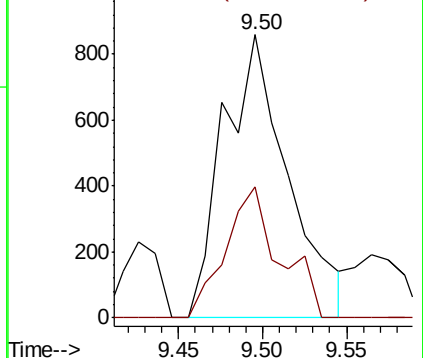
43 100

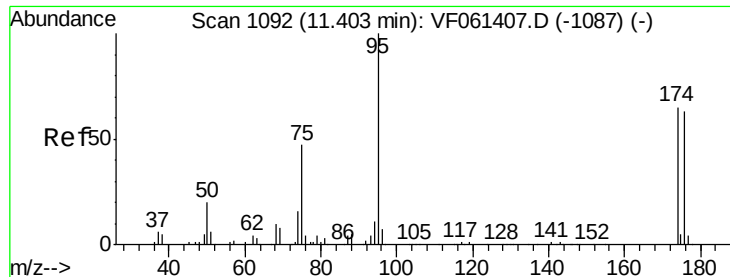
58 46.2 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 32.914 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061484.D

Acq: 23 Jan 2019 15:48

Instrument :

MSVOA_F

ClientSampled :

TS-N

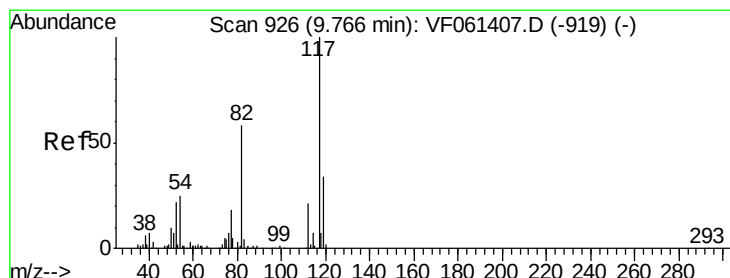
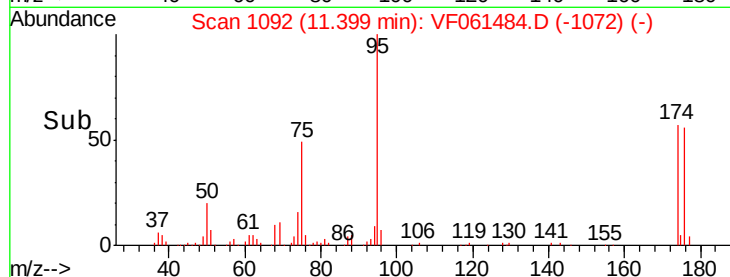
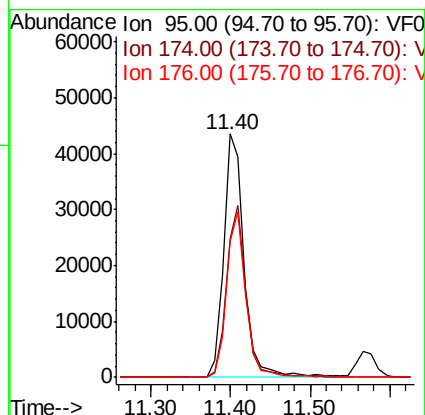
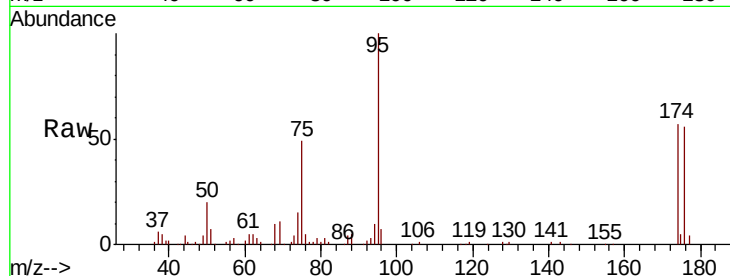
Tgt Ion: 95 Resp: 78569

Ion Ratio Lower Upper

95 100

174 56.8 0.0 130.4

176 55.6 0.0 126.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061484.D

Acq: 23 Jan 2019 15:48

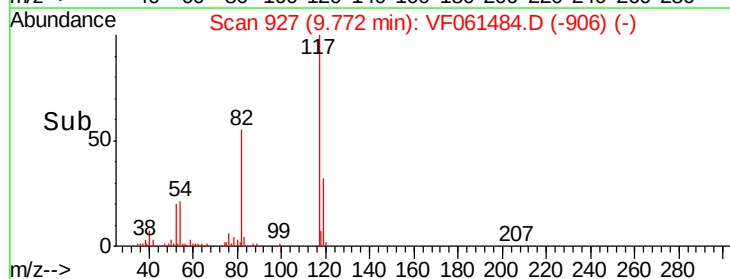
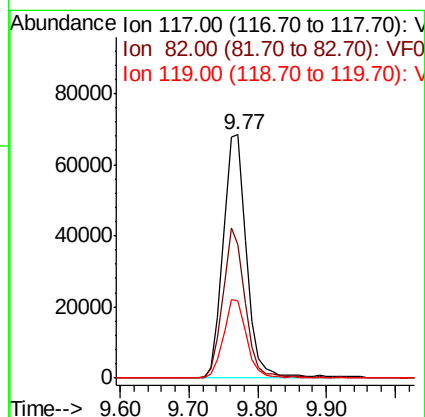
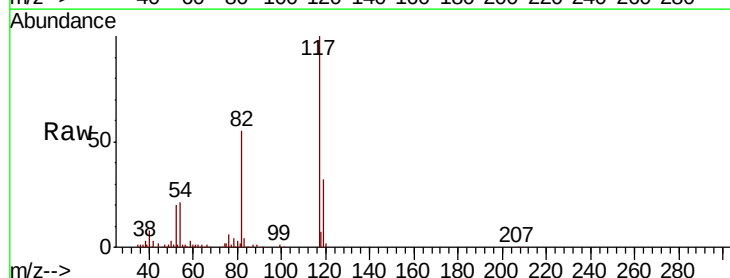
Tgt Ion: 117 Resp: 161474

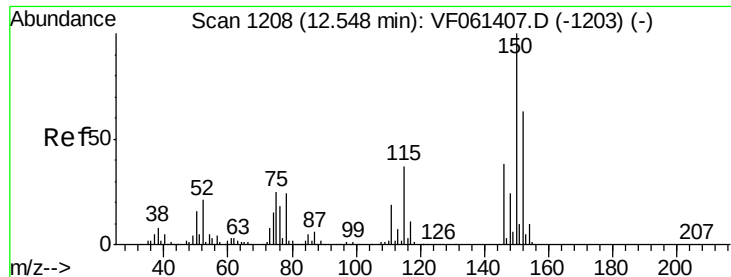
Ion Ratio Lower Upper

117 100

82 55.1 46.4 69.6

119 31.8 27.2 40.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061484.D

Acq: 23 Jan 2019 15:48

Instrument :

MSVOA_F

ClientSampleId :

TS-N

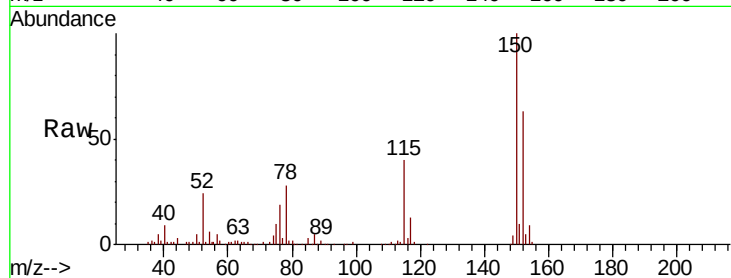
Tgt Ion:152 Resp: 51842

Ion Ratio Lower Upper

152 100

115 62.8 30.0 90.0

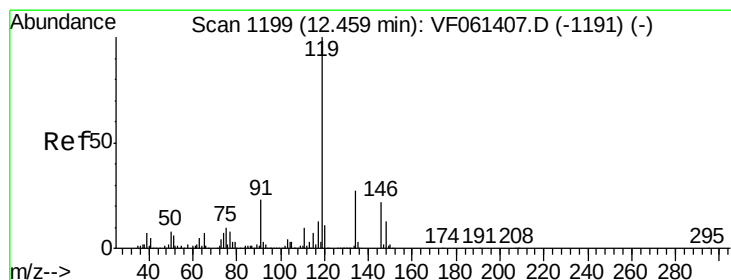
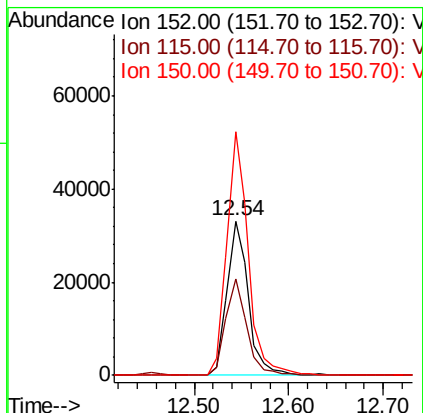
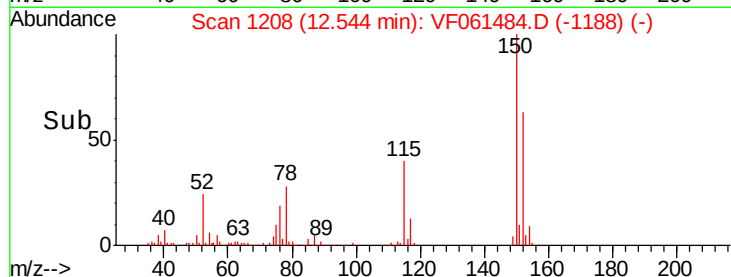
150 157.6 0.0 321.4



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: 2.849 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VF061484.D

Acq: 23 Jan 2019 15:48

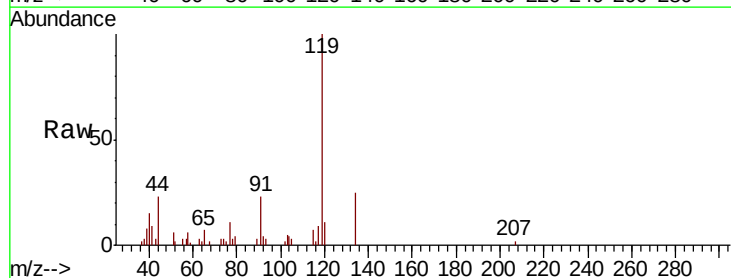
Tgt Ion:119 Resp: 11187

Ion Ratio Lower Upper

119 100

134 24.7 13.4 40.2

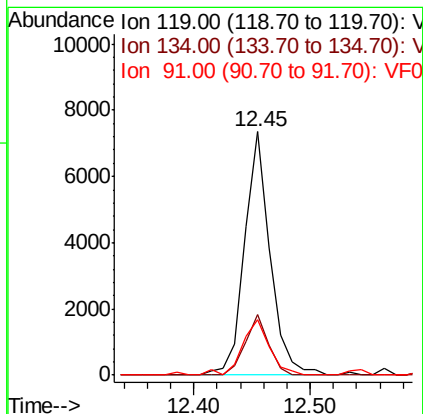
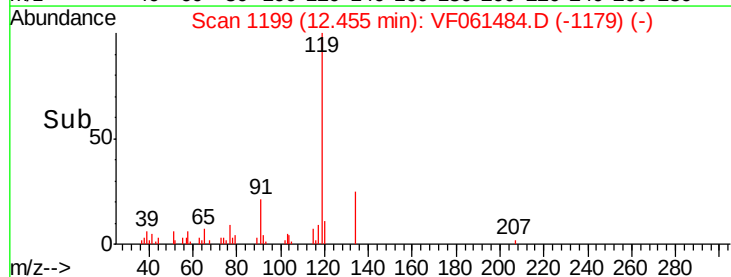
91 22.8 11.4 34.2

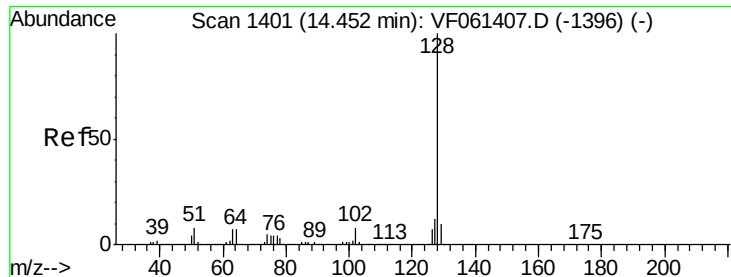


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

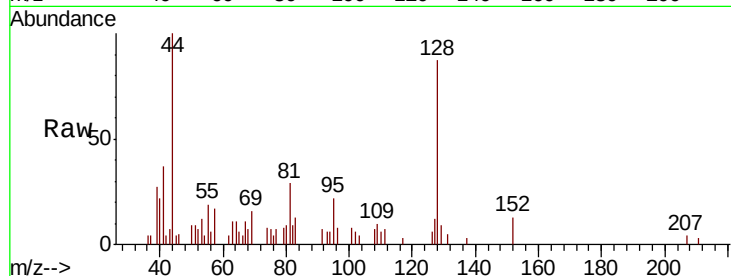




#95
Naphthalene
Concen: 1.762 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.00 min
Lab File: VF061484.D
Acq: 23 Jan 2019 15:48

Instrument :
MSVOA_F
ClientSampleId :
TS-N

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.3	9.5	14.3
129	10.0	8.4	12.6



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

