

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF012319\
 Data File : VF061490.D
 Acq On : 23 Jan 2019 18:41
 Operator : VA/AP
 Sample : K1223-08
 Misc : 5.38g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-T

Quant Time: Jan 24 02:56:34 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	142138	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	265843	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	180744	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	52409	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	93258	53.14	ug/l	0.01
Spiked Amount 50.000			Recovery	=	106.28%	
35) Dibromofluoromethane	4.11	113	107362	51.18	ug/l	0.01
Spiked Amount 50.000			Recovery	=	102.36%	
50) Toluene-d8	7.55	98	214082	37.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	74.50%	
62) 4-Bromofluorobenzene	11.40	95	70605	26.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	52.58%	

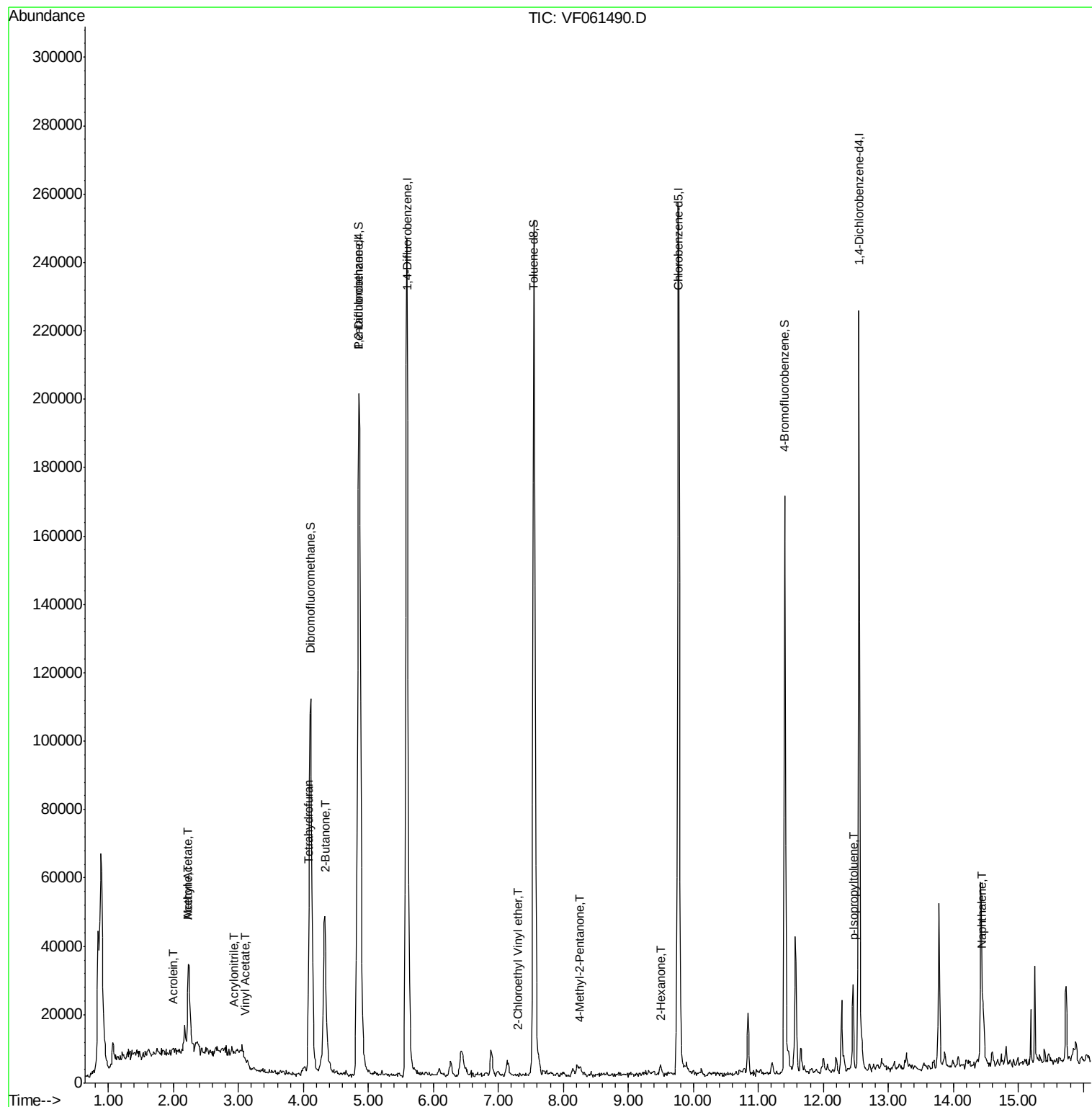
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	1.98	56	293	14.727	ug/l #	70
14) Allyl chloride	2.06	41	301	Below Cal	#	75
15) Acrylonitrile	2.94	53	199	1.046	ug/l #	40
16) Acetone	2.23	43	36197	102.818	ug/l	94
18) Methyl Acetate	2.23	43	36197	51.846	ug/l #	61
23) Vinyl Acetate	3.12	43	540	3.463	ug/l #	78
25) 2-Butanone	4.33	43	99118	169.305	ug/l	96
29) Tetrahydrofuran	4.08	42	761	3.019	ug/l #	38
49) 1,4-Dioxane	6.51	88	76	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.26	43	2824	2.484	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.30	63	204	28.678	ug/l #	47
59) 2-Hexanone	9.49	43	2845	3.589	ug/l	85
86) p-Isopropyltoluene	12.46	119	13105	3.302	ug/l	98
95) Naphthalene	14.45	128	3605	1.608	ug/l #	92

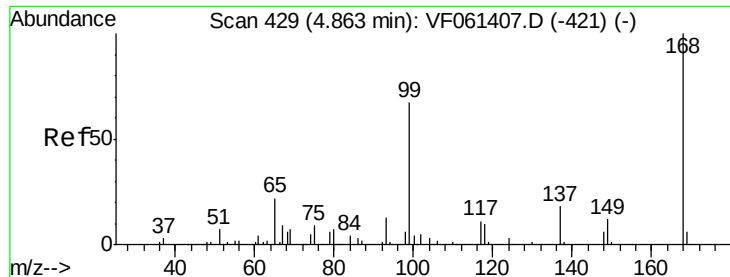
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.00 min

Lab File: VF061490.D

Acq: 23 Jan 2019 18:41

Instrument :

MSVOA_F

ClientSampleId :

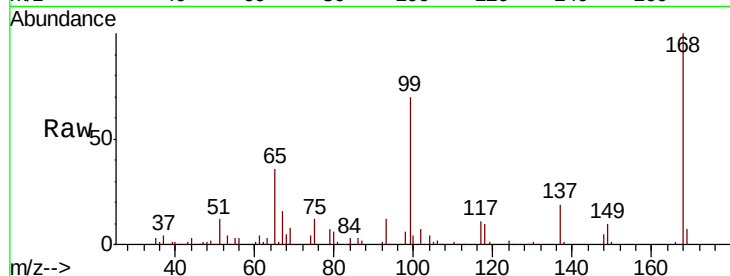
TS-T

Tgt Ion:168 Resp: 142138

Ion Ratio Lower Upper

168 100

99 69.9 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

50000

40000

30000

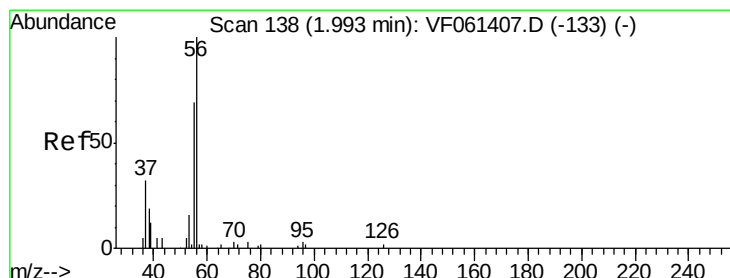
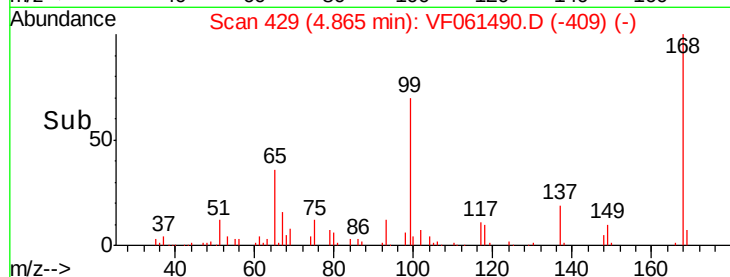
20000

10000

0

Time-->

4.70 4.80 4.90 5.00



#13

Acrolein

Concen: 14.727 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF061490.D

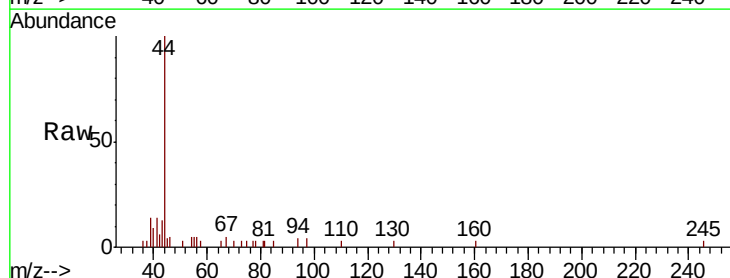
Acq: 23 Jan 2019 18:41

Tgt Ion: 56 Resp: 293

Ion Ratio Lower Upper

56 100

55 96.7 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

300

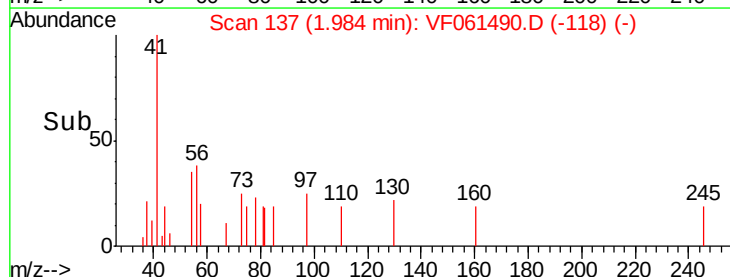
200

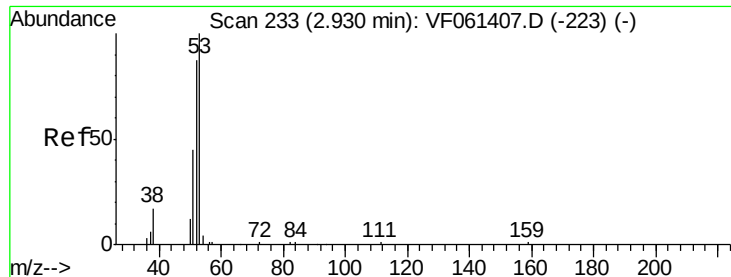
100

0

Time-->

1.95 2.00





#15

Acrylonitrile

Concen: 1.046 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061490.D

Acq: 23 Jan 2019 18:41

Instrument :

MSVOA_F

ClientSampleId :

TS-T

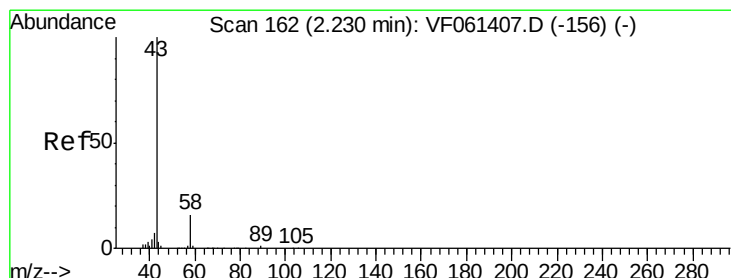
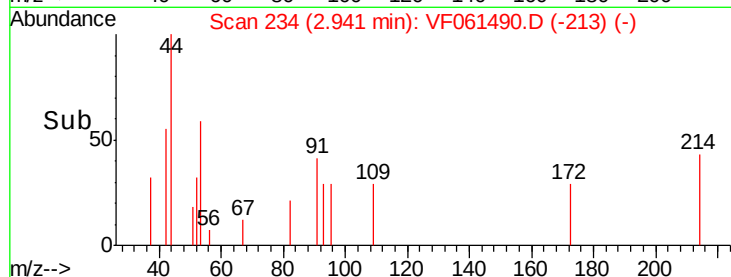
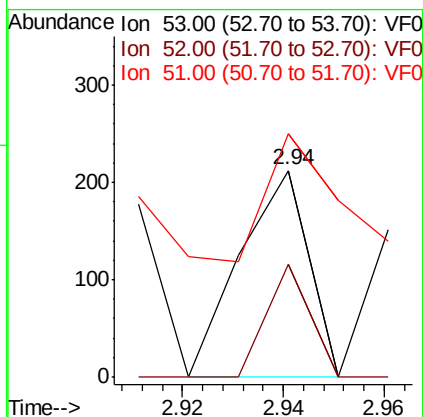
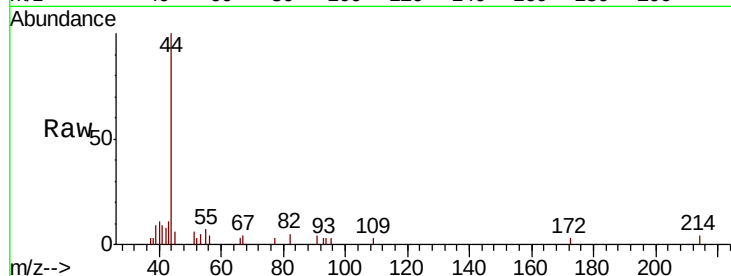
Tgt Ion: 53 Resp: 199

Ion Ratio Lower Upper

53 100

52 54.7 69.6 104.4#

51 117.9 36.8 55.2#



#16

Acetone

Concen: 102.818 ug/l

RT: 2.23 min Scan# 162

Delta R.T. 0.00 min

Lab File: VF061490.D

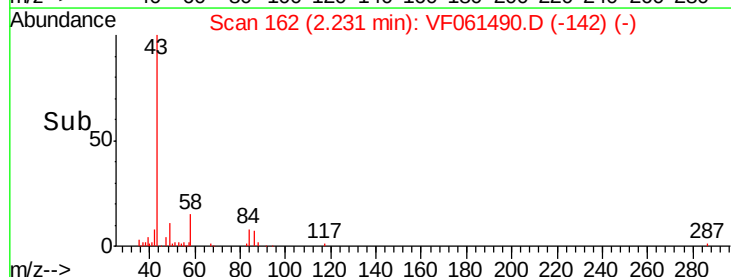
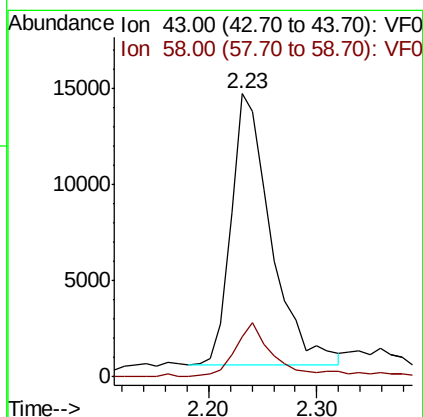
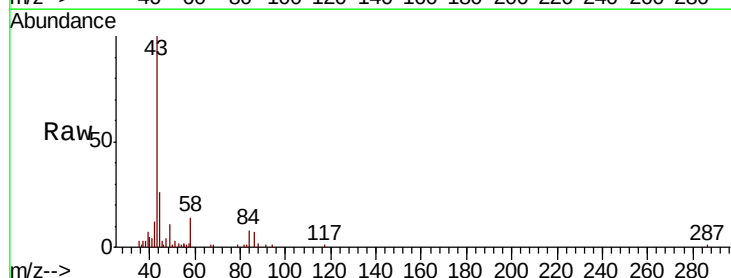
Acq: 23 Jan 2019 18:41

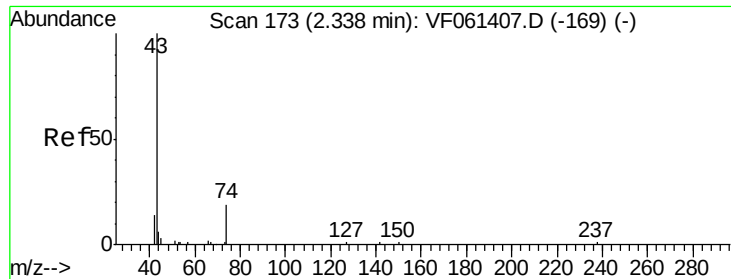
Tgt Ion: 43 Resp: 36197

Ion Ratio Lower Upper

43 100

58 14.2 13.3 19.9

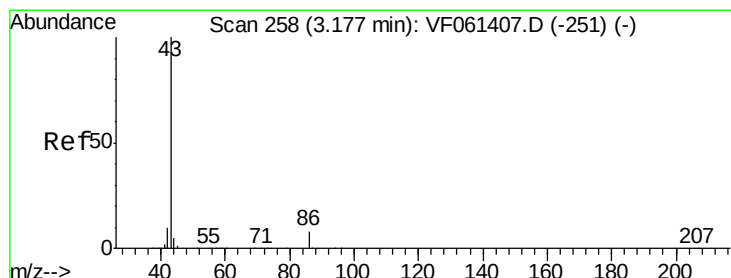
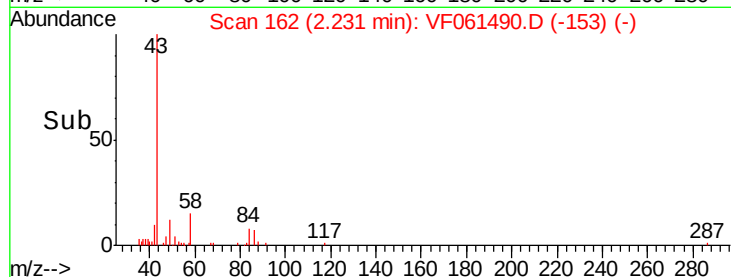
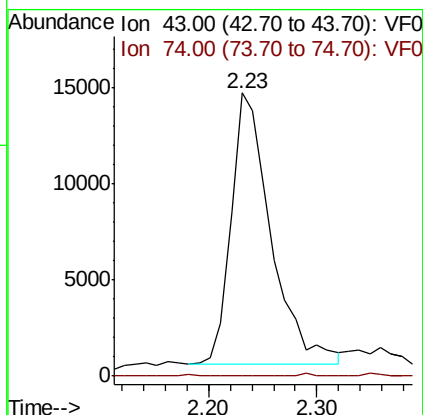
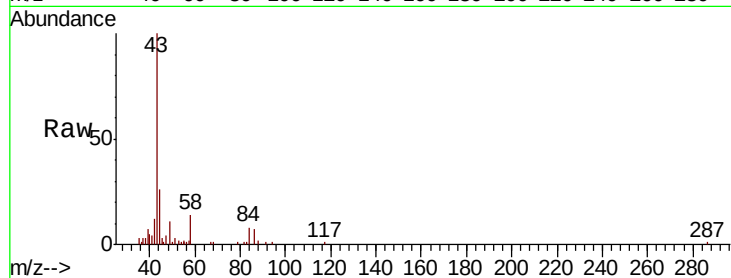




#18
Methyl Acetate
Concen: 51.846 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.11 min
Lab File: VF061490.D
Acq: 23 Jan 2019 18:41

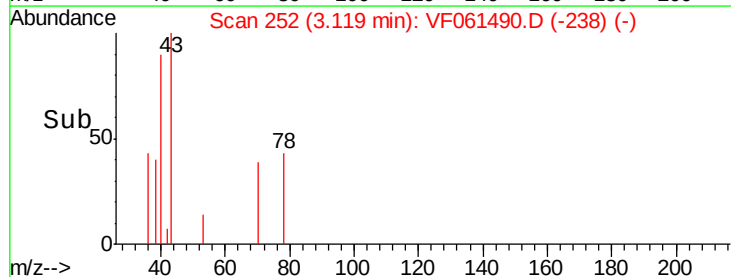
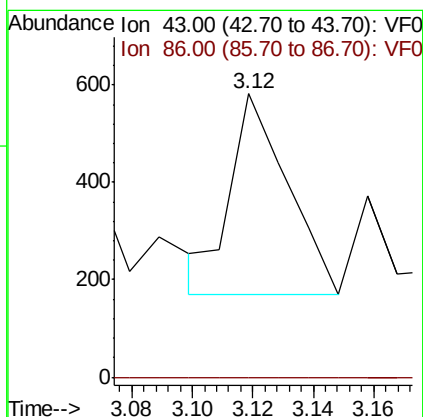
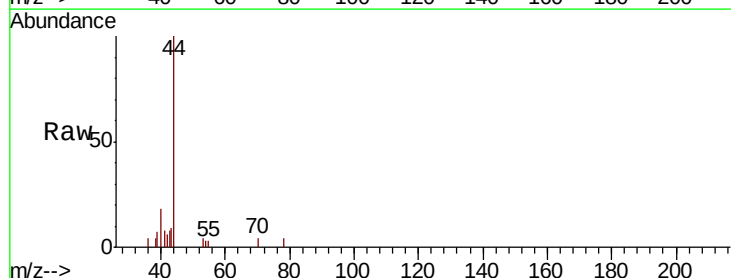
Instrument :
MSVOA_F
ClientSampleId :
TS-T

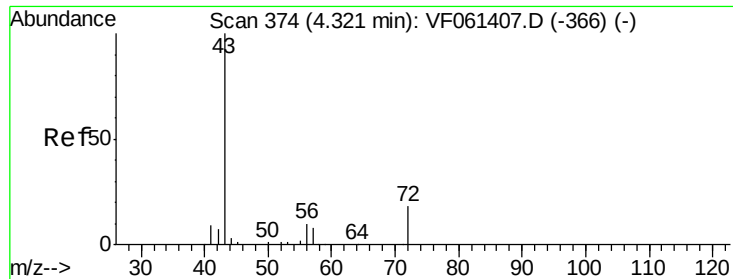
Tgt Ion: 43 Resp: 36197
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#23
Vinyl Acetate
Concen: 3.463 ug/l
RT: 3.12 min Scan# 252
Delta R.T. -0.06 min
Lab File: VF061490.D
Acq: 23 Jan 2019 18:41

Tgt Ion: 43 Resp: 540
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#





#25

2-Butanone

Concen: 169.305 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF061490.D

Acq: 23 Jan 2019 18:41

Instrument :

MSVOA_F

ClientSampleId :

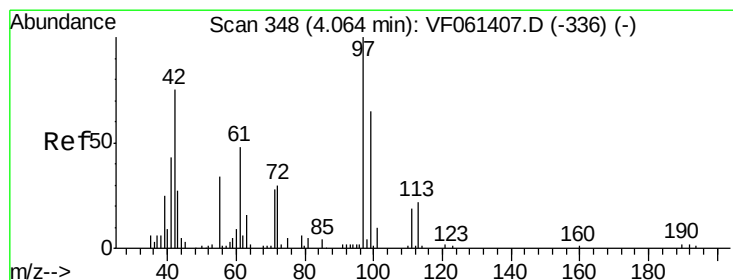
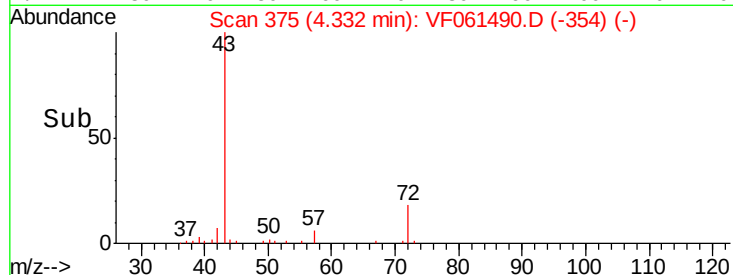
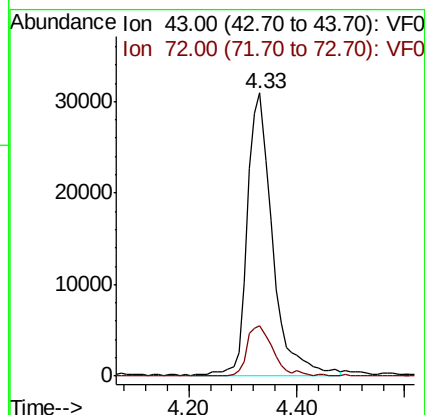
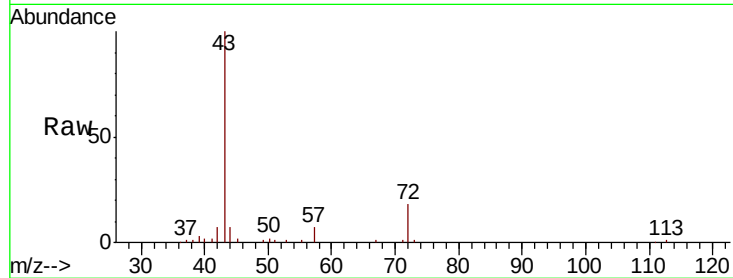
TS-T

Tgt Ion: 43 Resp: 99118

Ion Ratio Lower Upper

43 100

72 17.8 15.8 23.6



#29

Tetrahydrofuran

Concen: 3.019 ug/l

RT: 4.08 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061490.D

Acq: 23 Jan 2019 18:41

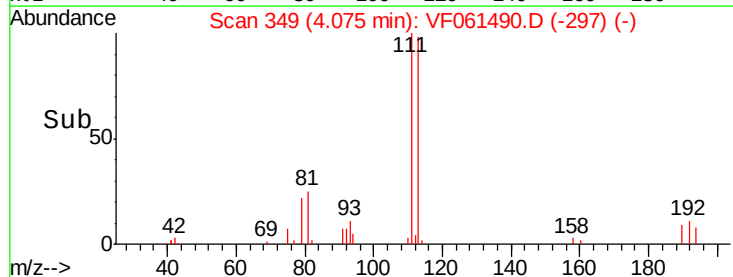
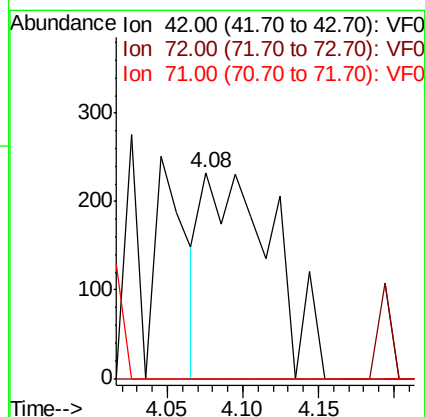
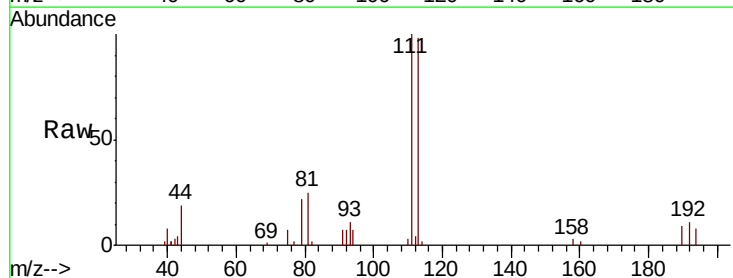
Tgt Ion: 42 Resp: 761

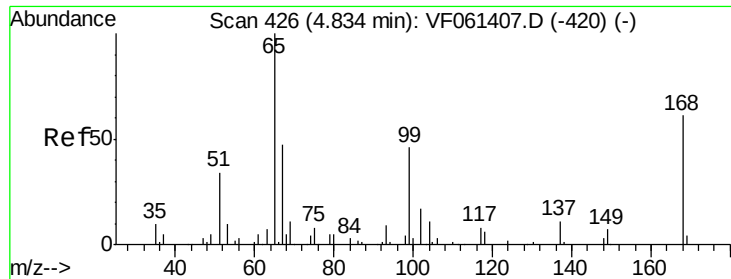
Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

71 0.0 29.6 44.4#

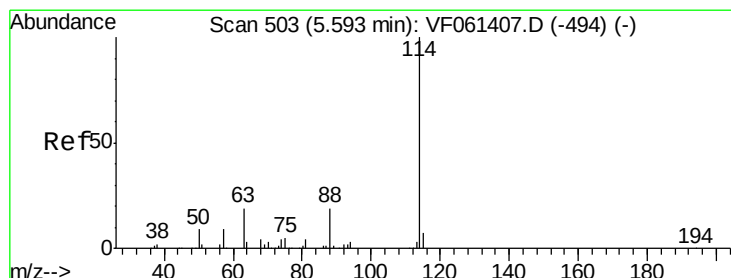
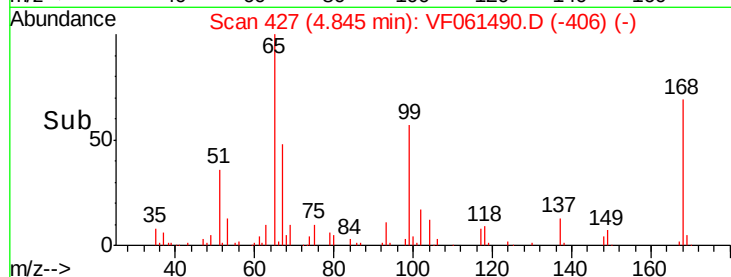
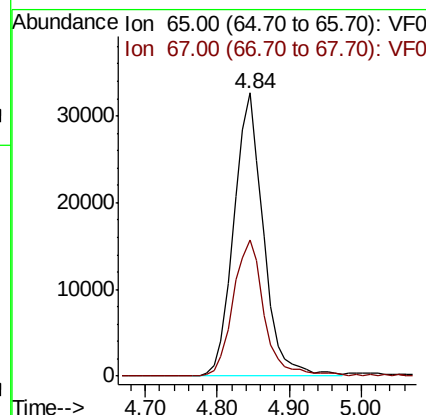
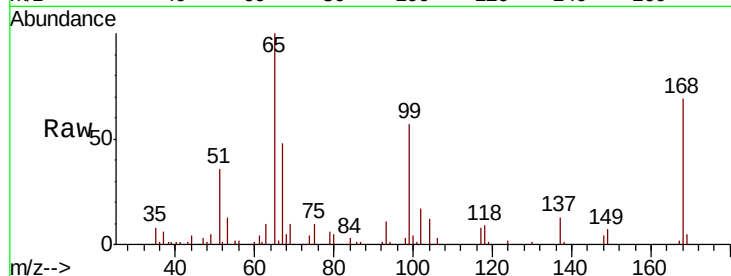




#33
 1,2-Dichloroethane-d4
 Concen: 53.142 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. 0.01 min
 Lab File: VF061490.D
 Acq: 23 Jan 2019 18:41

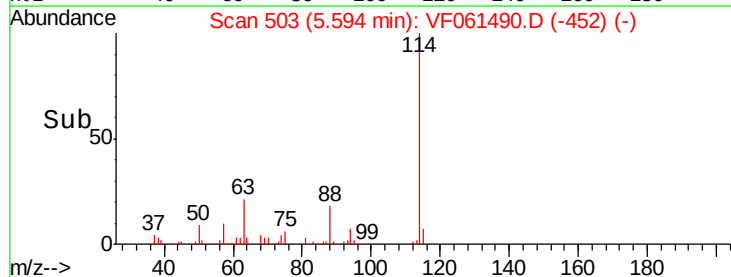
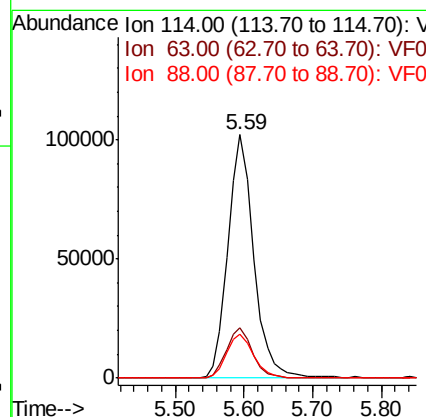
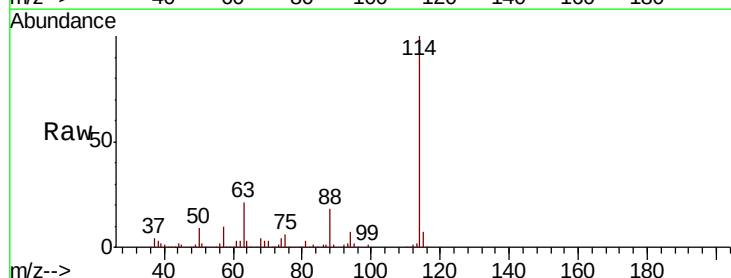
Instrument :
 MSVOA_F
 ClientSampleId :
 TS-T

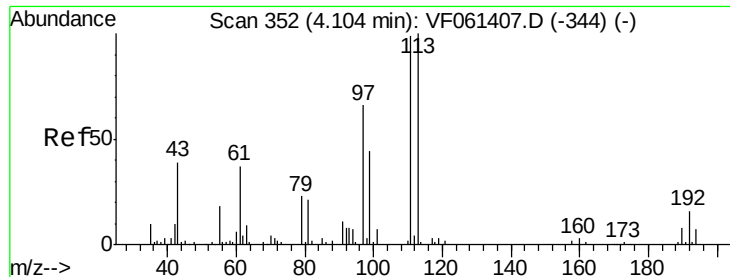
Tgt Ion: 65 Resp: 93258
 Ion Ratio Lower Upper
 65 100
 67 48.1 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VF061490.D
 Acq: 23 Jan 2019 18:41

Tgt Ion: 114 Resp: 265843
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 39.0
 88 18.3 0.0 37.4

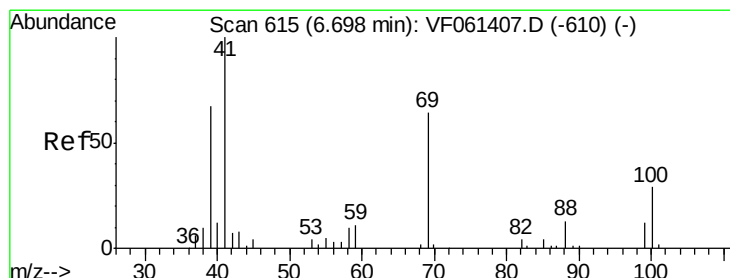
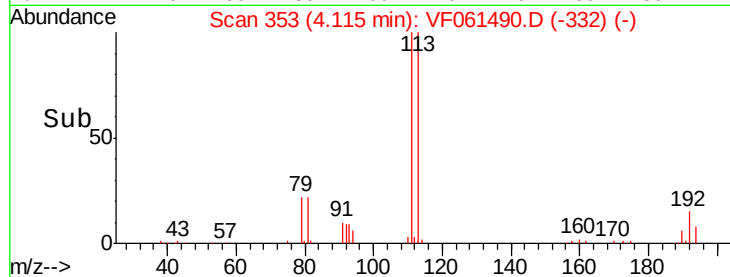
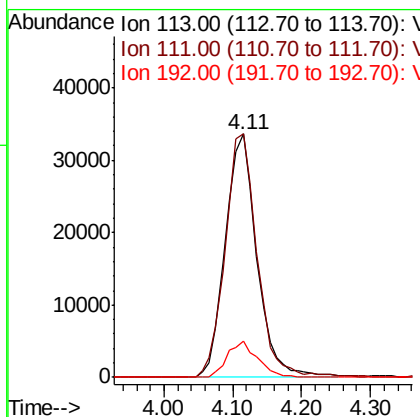
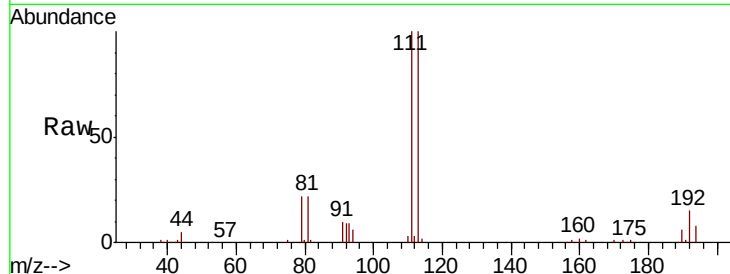




#35
Dibromofluoromethane
Concen: 51.180 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.01 min
Lab File: VF061490.D
Acq: 23 Jan 2019 18:41

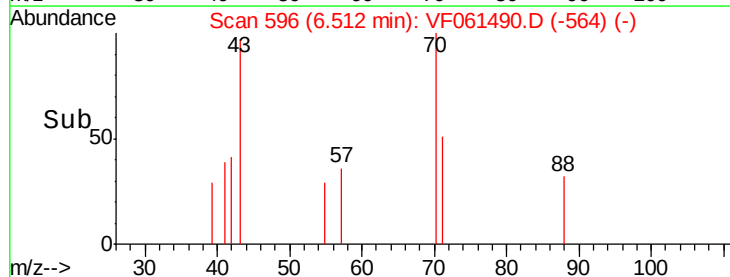
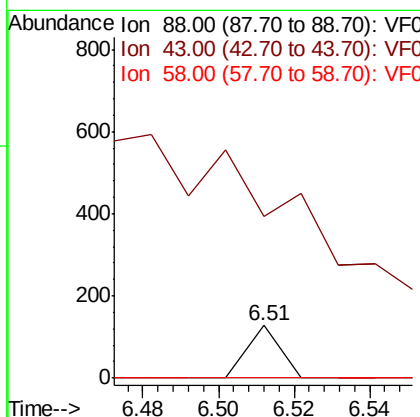
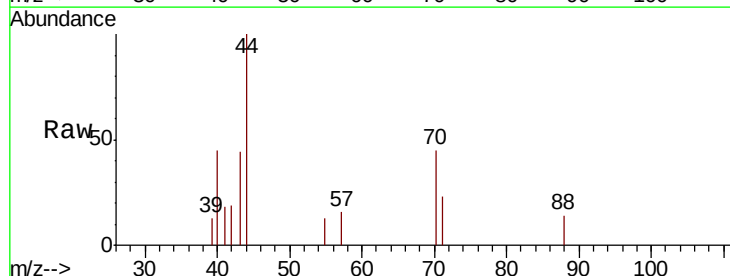
Instrument :
MSVOA_F
ClientSampleId :
TS-T

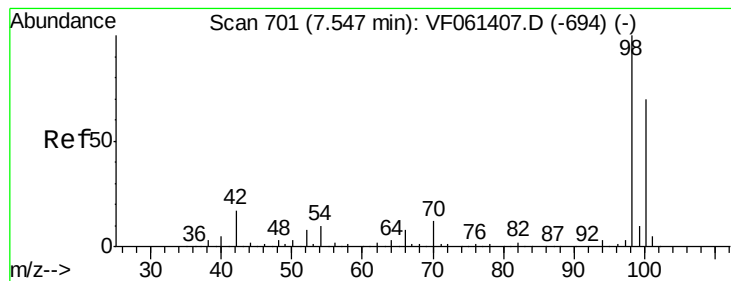
Tgt Ion: 113 Resp: 107362
Ion Ratio Lower Upper
113 100
111 100.0 79.4 119.0
192 14.9 12.4 18.6



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.51 min Scan# 596
Delta R.T. -0.19 min
Lab File: VF061490.D
Acq: 23 Jan 2019 18:41

Tgt Ion: 88 Resp: 76
Ion Ratio Lower Upper
88 100
43 307.0 55.5 83.3#
58 0.0 59.9 89.9#





#50

Toluene-d8

Concen: 37.248 ug/l

RT: 7.55 min Scan# 701

Delta R.T. 0.00 min

Lab File: VF061490.D

Acq: 23 Jan 2019 18:41

Instrument :

MSVOA_F

ClientSampleId :

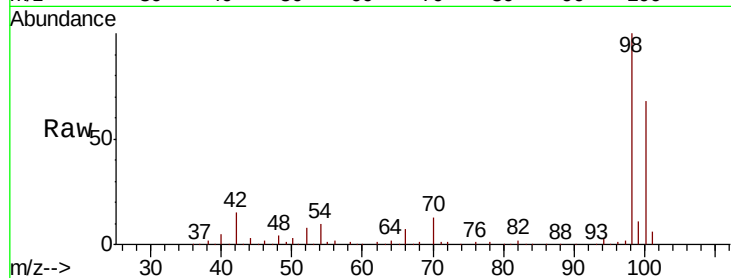
TS-T

Tgt Ion: 98 Resp: 214082

Ion Ratio Lower Upper

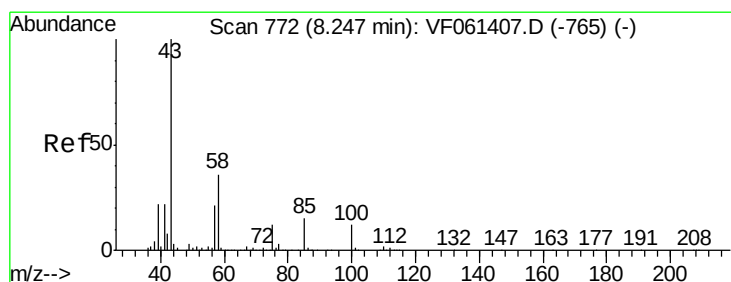
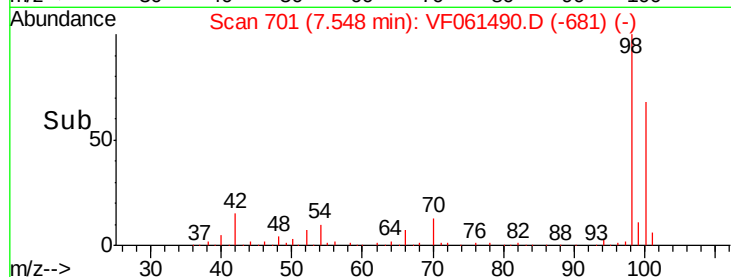
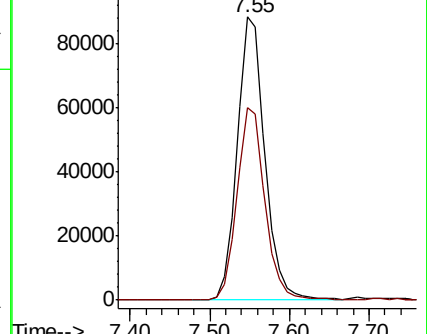
98 100

100 68.2 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#51

4-Methyl-2-Pentanone

Concen: 2.484 ug/l

RT: 8.26 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061490.D

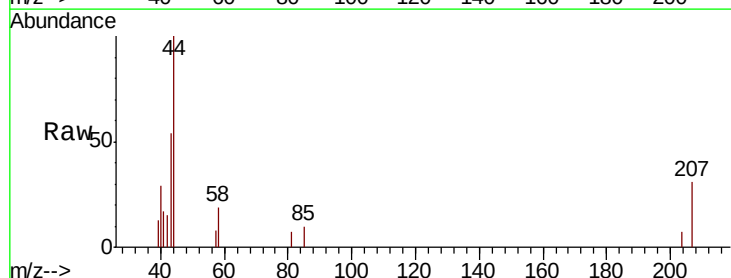
Acq: 23 Jan 2019 18:41

Tgt Ion: 43 Resp: 2824

Ion Ratio Lower Upper

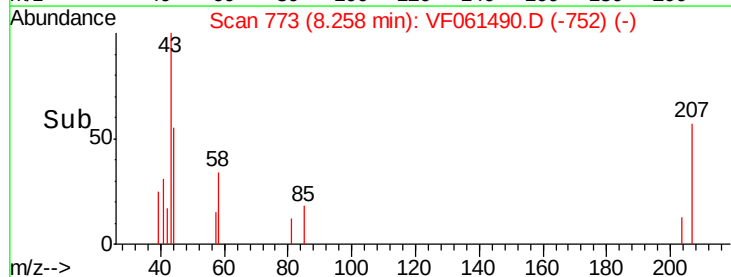
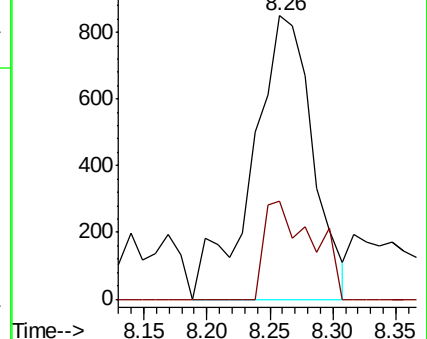
43 100

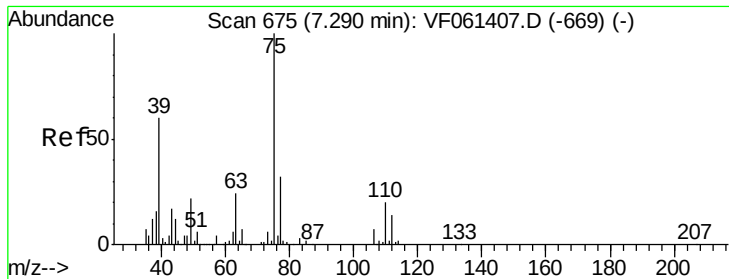
58 34.4 28.8 43.2



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: 28.678 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061490.D

Acq: 23 Jan 2019 18:41

Instrument :

MSVOA_F

ClientSampleId :

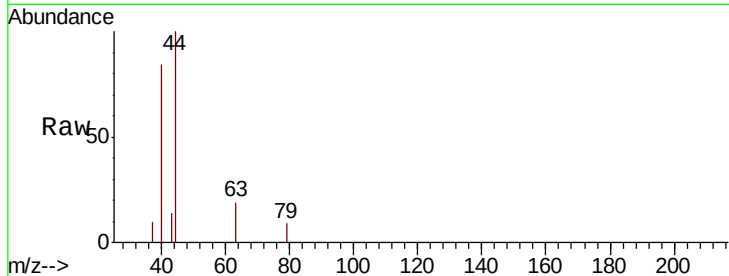
TS-T

Tgt Ion: 63 Resp: 204

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): V

250

200

150

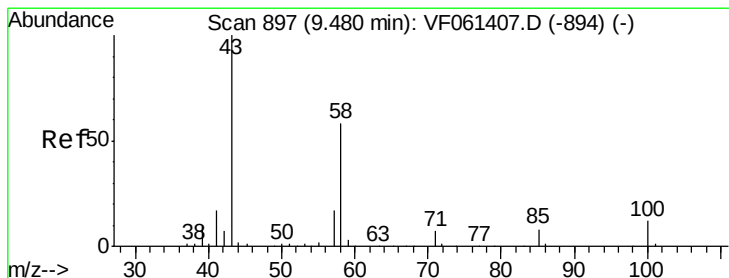
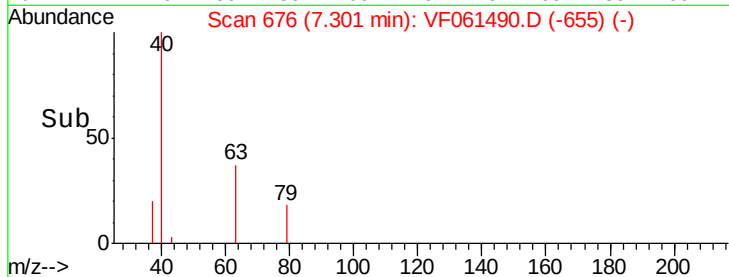
100

50

0

7.26 7.28 7.30 7.32 7.34

Time-->



#59

2-Hexanone

Concen: 3.589 ug/l

RT: 9.49 min Scan# 898

Delta R.T. 0.01 min

Lab File: VF061490.D

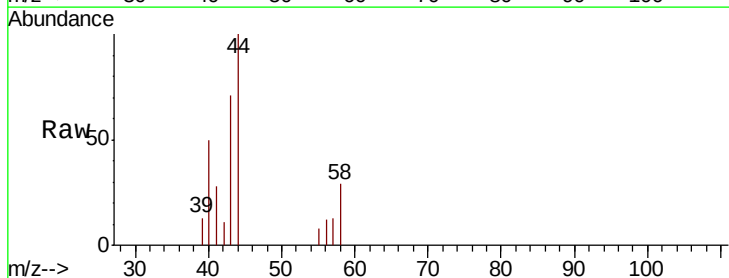
Acq: 23 Jan 2019 18:41

Tgt Ion: 43 Resp: 2845

Ion Ratio Lower Upper

43 100

58 41.4 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1200

1000

800

600

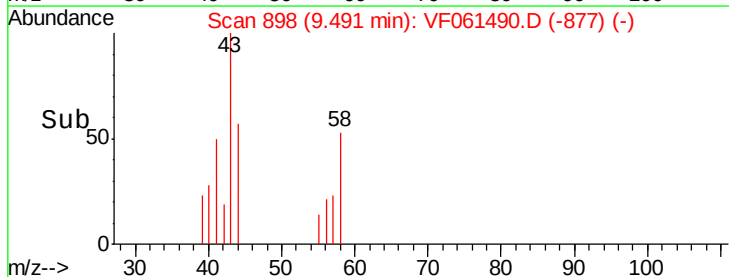
400

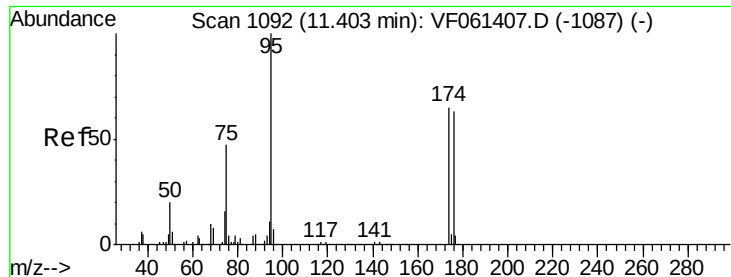
200

0

9.40 9.45 9.50 9.55

Time-->





#62

4-Bromofluorobenzene

Concen: 26.293 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VF061490.D

Acq: 23 Jan 2019 18:41

Instrument :

MSVOA_F

ClientSampleId :

TS-T

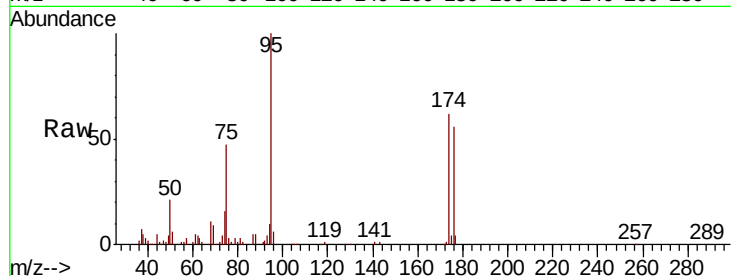
Tgt Ion: 95 Resp: 70605

Ion Ratio Lower Upper

95 100

174 61.9 0.0 130.4

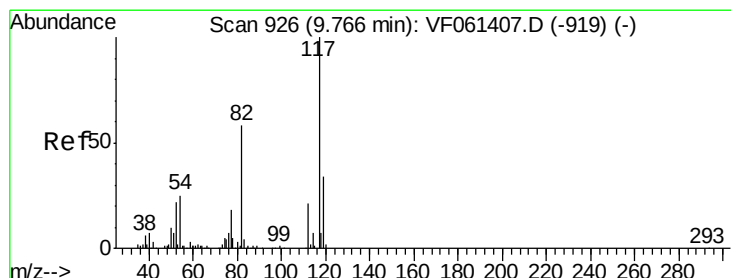
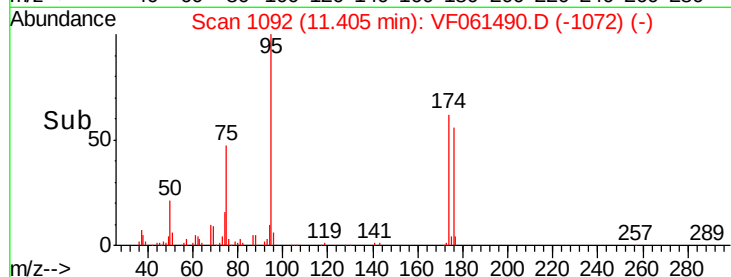
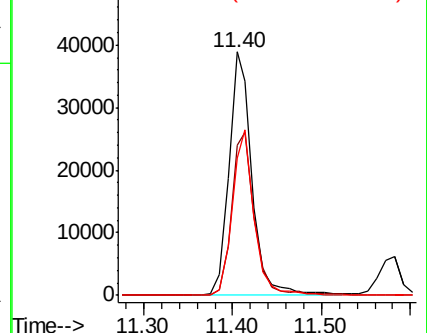
176 56.2 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 926

Delta R.T. 0.00 min

Lab File: VF061490.D

Acq: 23 Jan 2019 18:41

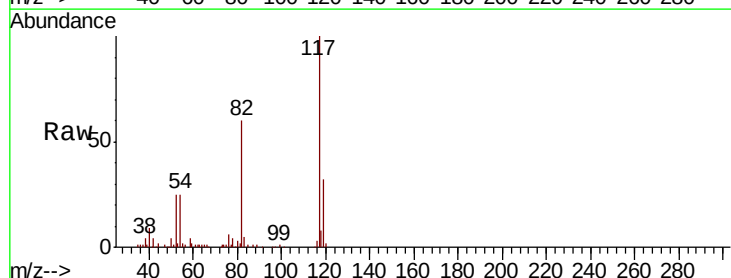
Tgt Ion: 117 Resp: 180744

Ion Ratio Lower Upper

117 100

82 59.6 46.4 69.6

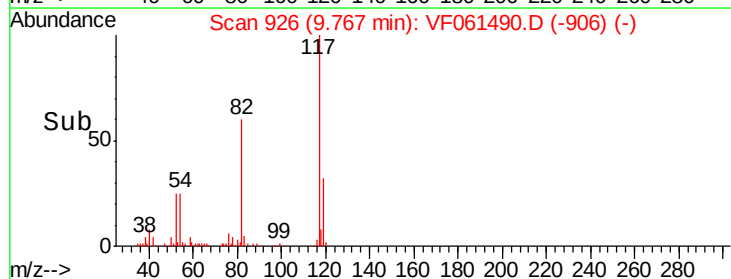
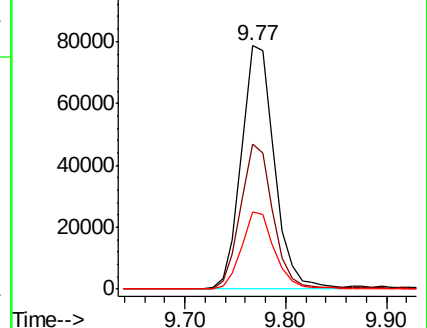
119 31.9 27.2 40.8

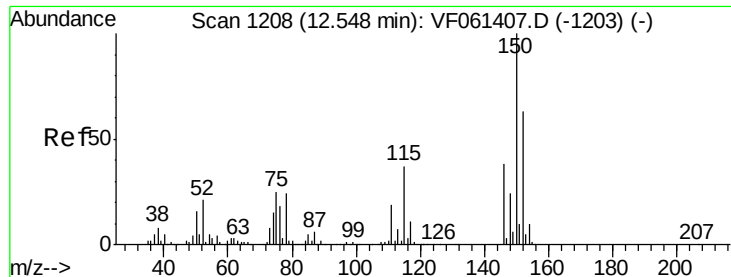


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF061490.D

Acq: 23 Jan 2019 18:41

Instrument :

MSVOA_F

ClientSampleId :

TS-T

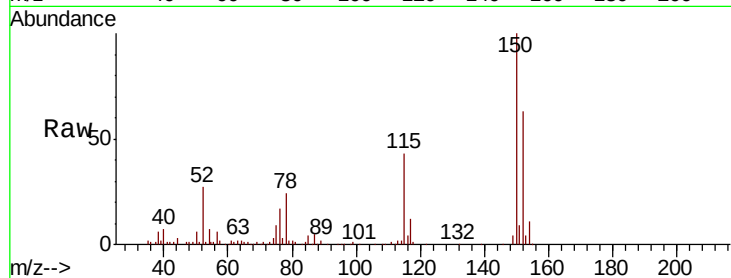
Tgt Ion:152 Resp: 52409

Ion Ratio Lower Upper

152 100

115 67.5 30.0 90.0

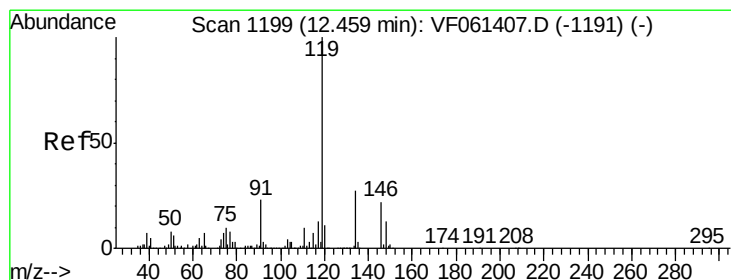
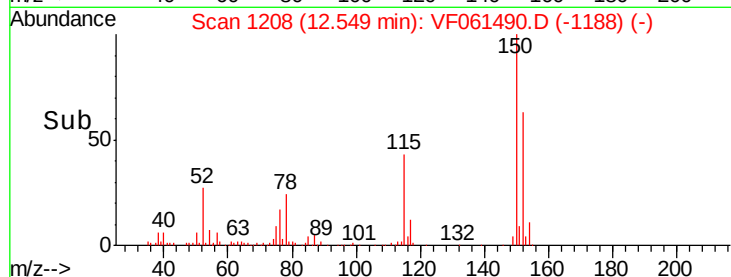
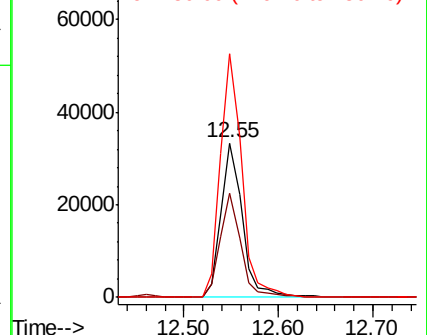
150 157.8 0.0 321.4



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: 3.302 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. 0.00 min

Lab File: VF061490.D

Acq: 23 Jan 2019 18:41

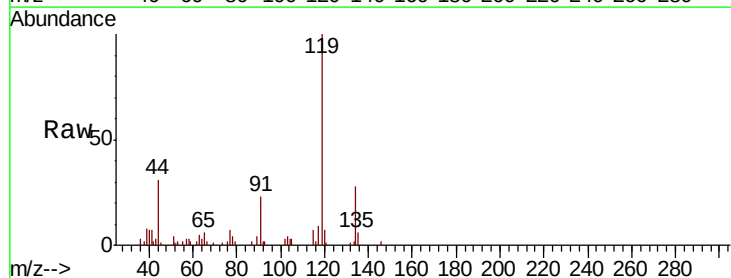
Tgt Ion:119 Resp: 13105

Ion Ratio Lower Upper

119 100

134 28.2 13.4 40.2

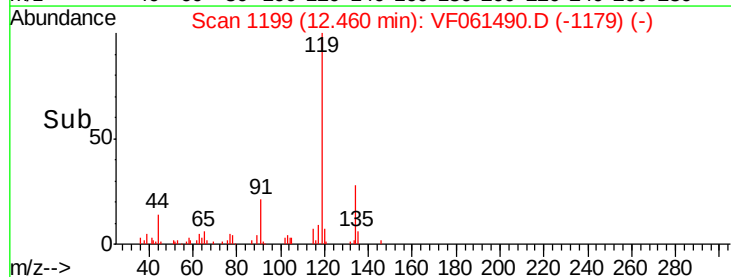
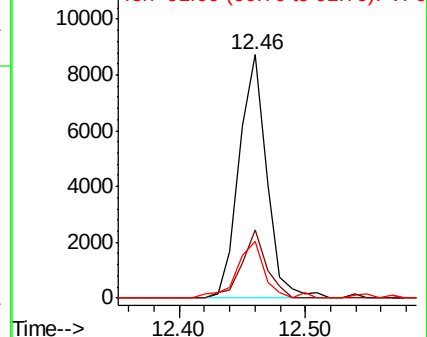
91 23.3 11.4 34.2

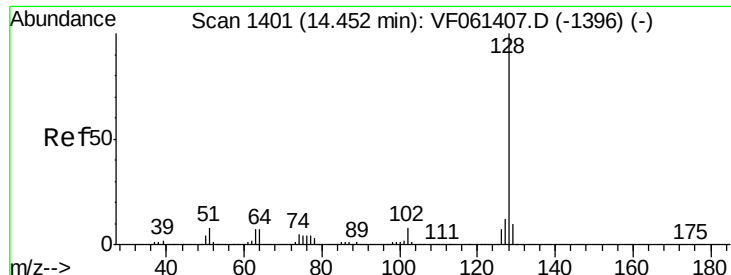


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

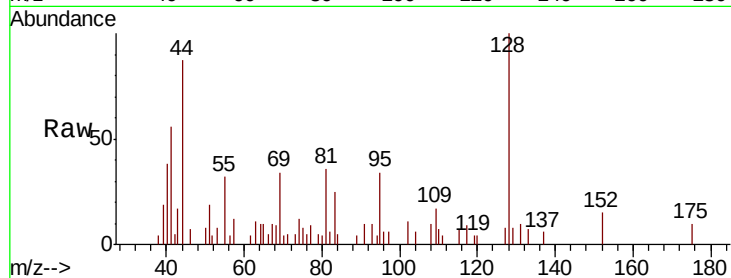




#95
Naphthalene
Concen: 1.608 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VF061490.D
Acq: 23 Jan 2019 18:41

Instrument :
MSVOA_F
ClientSampleId :
TS-T

Tgt Ion:128 Resp: 3605
Ion Ratio Lower Upper
128 100
127 8.4 9.5 14.3#
129 7.7 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

