

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082418\
 Data File : VF060118.D
 Acq On : 24 Aug 2018 23:40
 Operator : VA/AP
 Sample : J4652-01
 Misc : 4.86g/5mL/MSVOA F/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SONO-S

Quant Time: Aug 25 05:33:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	138695	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.74	114	196070	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.90	117	189682	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	73916	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	70028	36.89	ug/l	-0.03
Spiked Amount				50.000		
Recovery						73.78%
35) Dibromofluoromethane	4.27	113	77440	50.30	ug/l	-0.03
Spiked Amount				50.000		
Recovery						100.60%
50) Toluene-d8	7.70	98	200532	45.86	ug/l	-0.02
Spiked Amount				50.000		
Recovery						91.72%
62) 4-Bromofluorobenzene	11.50	95	71948	31.10	ug/l	-0.02
Spiked Amount				50.000		
Recovery						62.20%

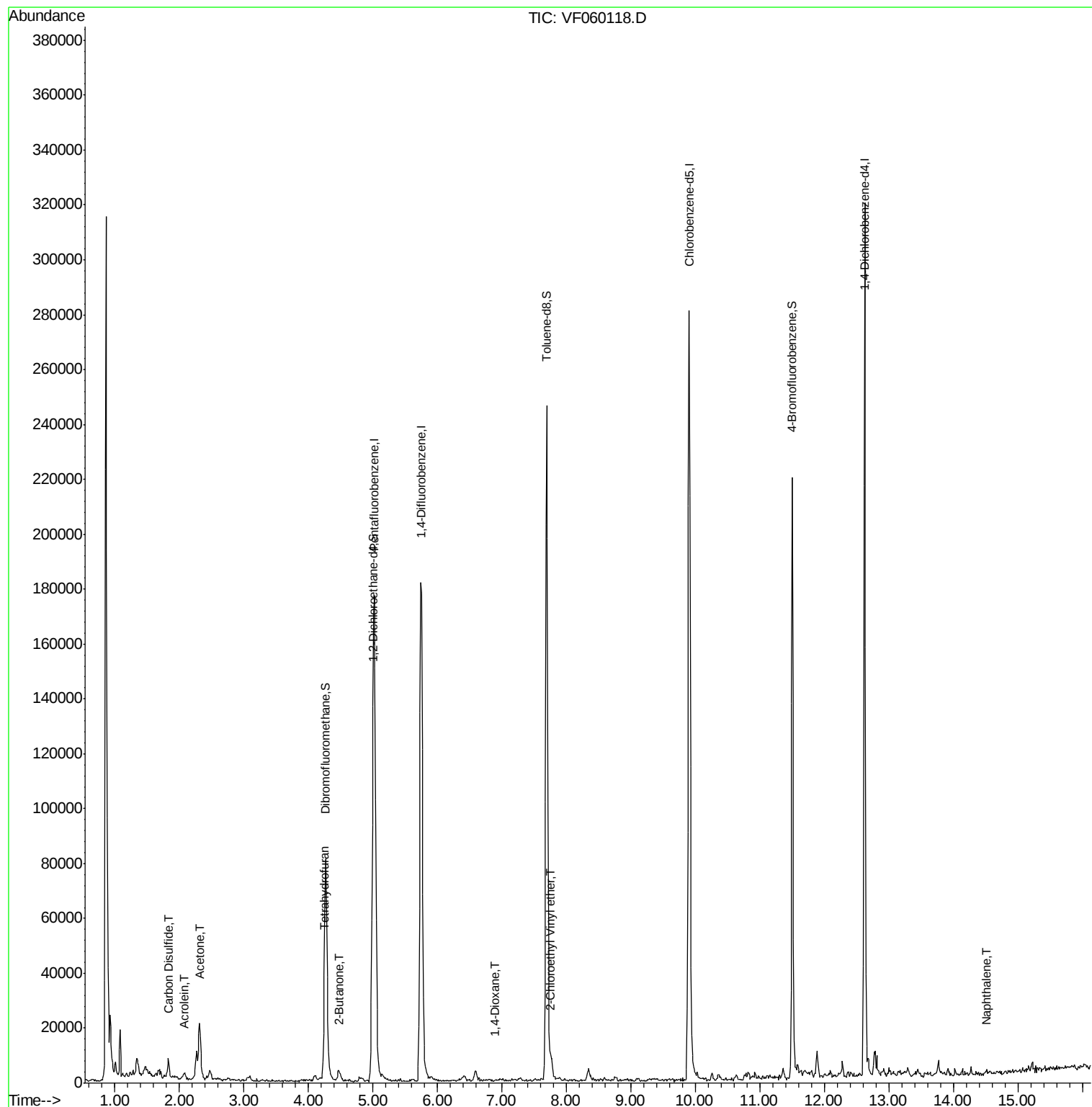
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.08	50	1285	Below Cal	#	87
13) Acrolein	2.07	56	86	27.57	ug/l	# 8
16) Acetone	2.31	43	29746	59.62	ug/l	99
17) Carbon Disulfide	1.83	76	8271	3.00	ug/l	# 91
18) Methyl Acetate	2.43	43	1312	Below Cal	#	60
20) Methylene Chloride	2.27	84	4135	Below Cal	#	84
25) 2-Butanone	4.47	43	7307	11.28	ug/l	94
29) Tetrahydrofuran	4.24	42	624	2.55	ug/l	# 52
49) 1,4-Dioxane	6.89	88	66	7.49	ug/l	# 18
52) Toluene	7.76	92	2109	Below Cal	#	62
58) 2-Chloroethyl Vinyl ether	7.76	63	494	4.73	ug/l	100
68) m/p-Xylenes	10.25	106	950	Below Cal	#	56
95) Naphthalene	14.51	128	558	2.48	ug/l	# 69

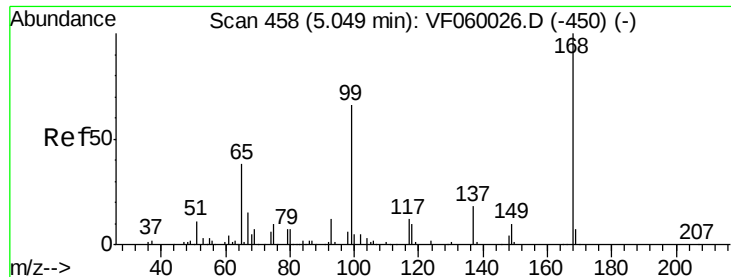
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 25 05:33:31 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 04:43:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 456

Delta R.T. -0.02 min

Lab File: VF060118.D

Acq: 24 Aug 2018 23:40

Instrument :

MSVOA_F

ClientSampleId :

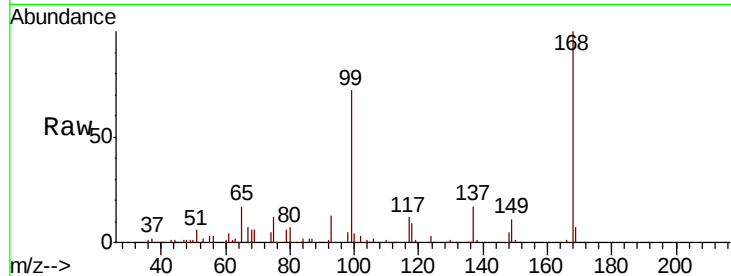
SONO-S

Tot Ion:168 Resp: 138695

Ion Ratio Lower Upper

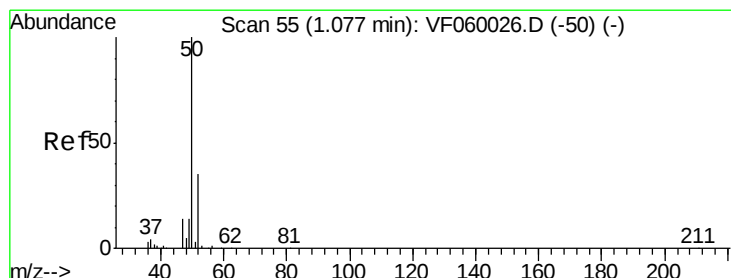
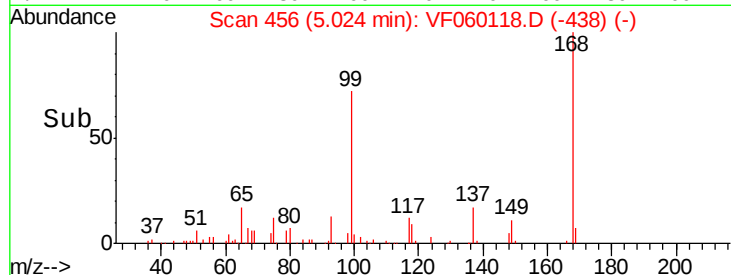
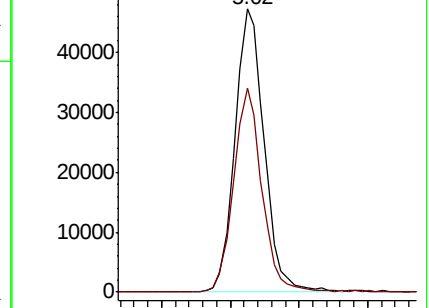
168 100

99 72.0 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: Below Cal

RT: 1.08 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF060118.D

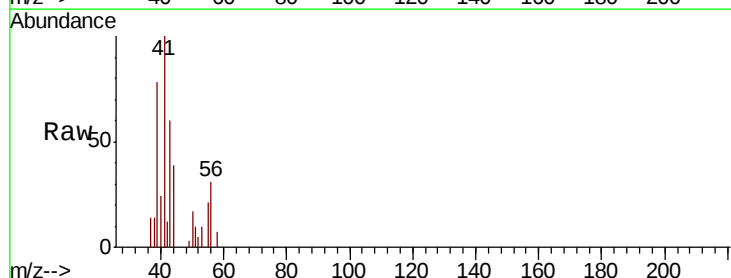
Acq: 24 Aug 2018 23:40

Tgt Ion: 50 Resp: 1285

Ion Ratio Lower Upper

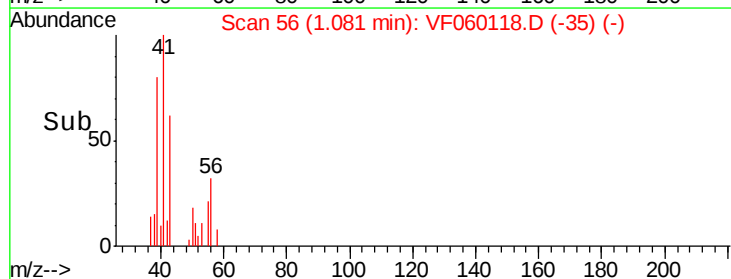
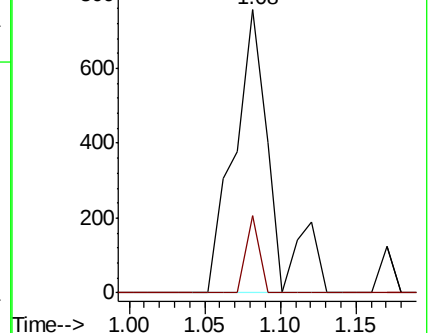
50 100

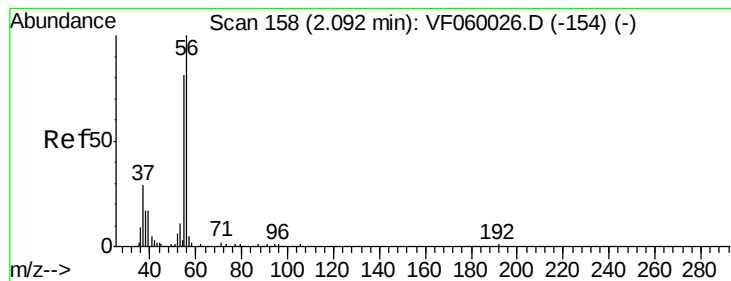
52 27.1 27.6 41.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#13

Acrolein

Concen: 27.57 ug/l

RT: 2.07 min Scan# 156

Delta R.T. -0.02 min

Lab File: VF060118.D

Acq: 24 Aug 2018 23:40

Instrument :

MSVOA_F

ClientSampleId :

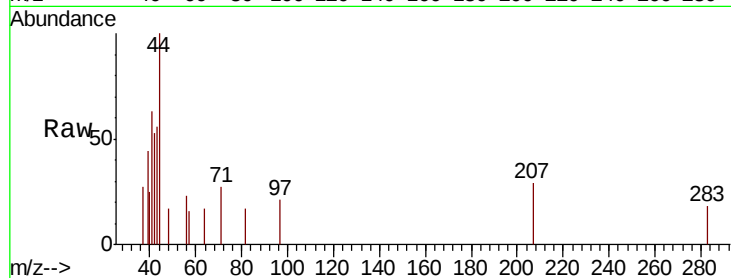
SONO-S

Tot Ion: 56 Resp: 86

Ion Ratio Lower Upper

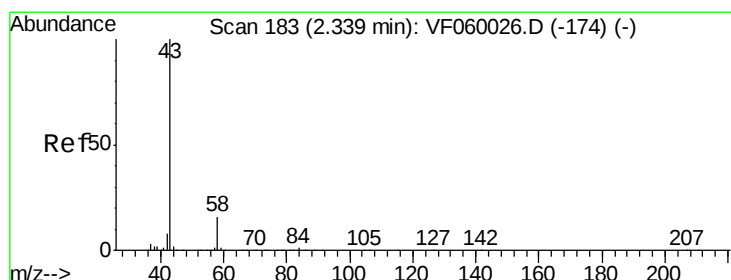
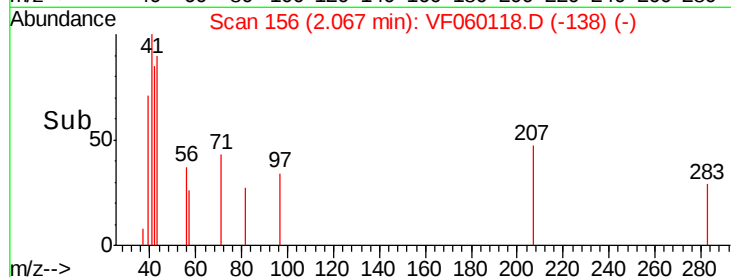
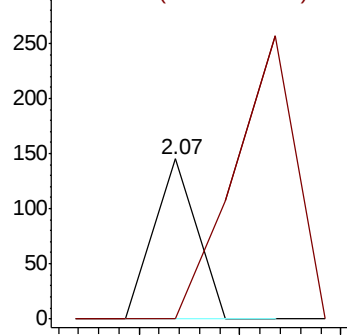
56 100

55 0.0 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#16

Acetone

Concen: 59.62 ug/l

RT: 2.31 min Scan# 181

Delta R.T. -0.02 min

Lab File: VF060118.D

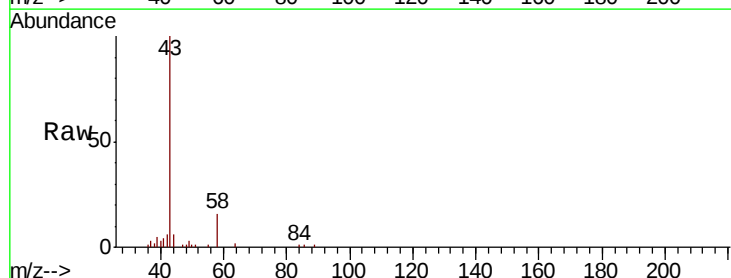
Acq: 24 Aug 2018 23:40

Tgt Ion: 43 Resp: 29746

Ion Ratio Lower Upper

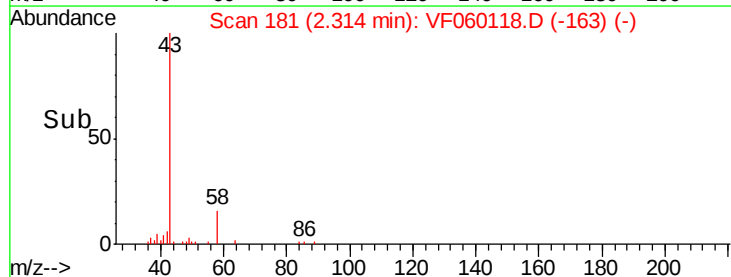
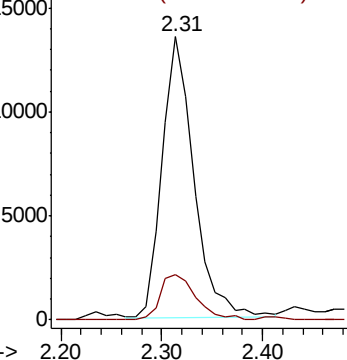
43 100

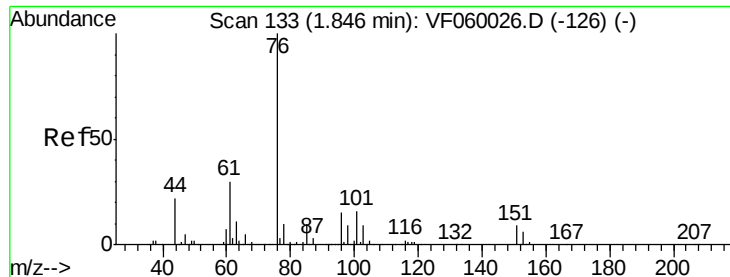
58 16.2 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

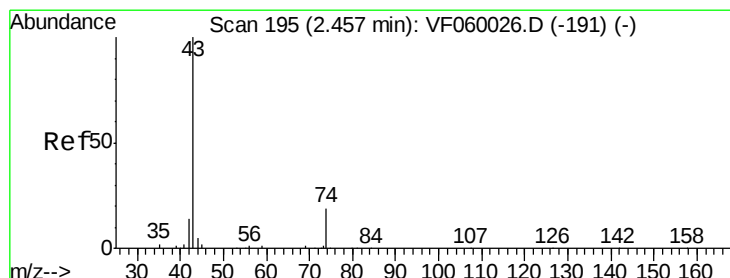
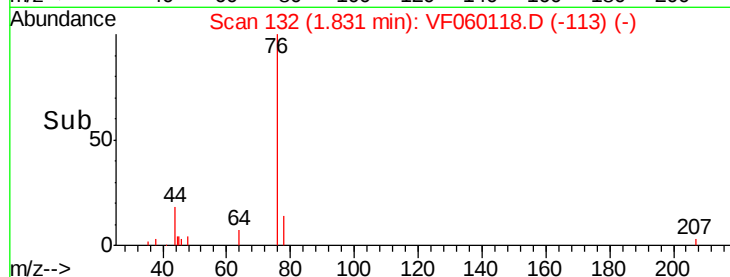
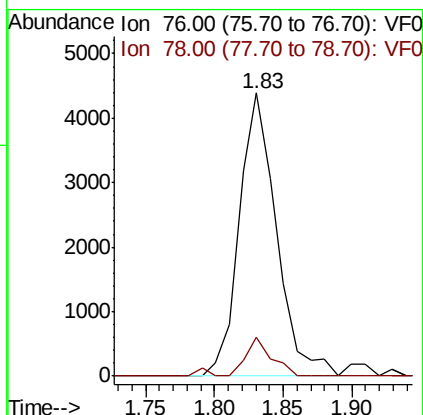
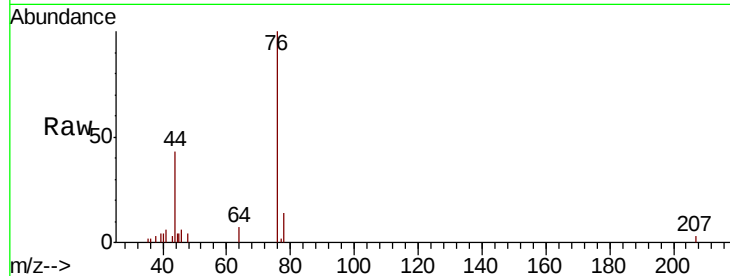




#17
Carbon Disulfide
Concen: 3.00 ug/l
RT: 1.83 min Scan# 132
Delta R.T. -0.02 min
Lab File: VF060118.D
Acq: 24 Aug 2018 23:40

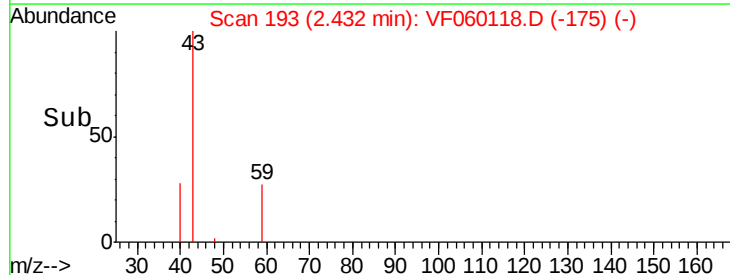
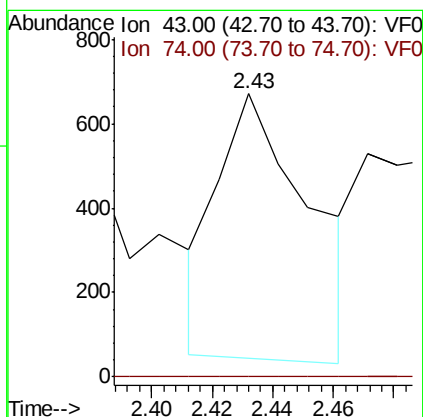
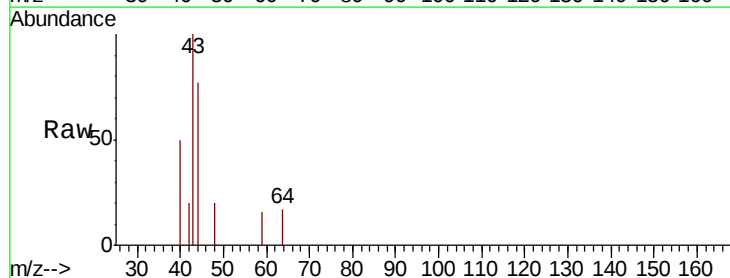
Instrument :
MSVOA_F
ClientSampleId :
SONO-S

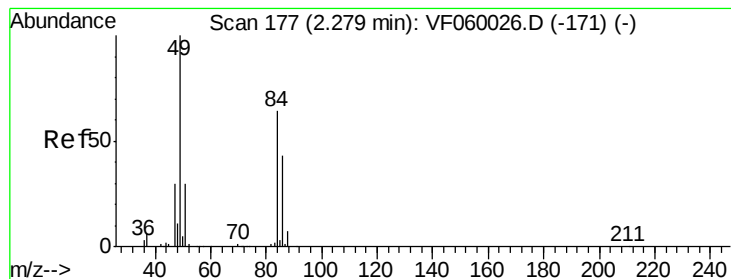
Tot Ion: 76 Resp: 8271
Ion Ratio Lower Upper
76 100
78 13.7 8.4 12.6#



#18
Methyl Acetate
Concen: Below Cal
RT: 2.43 min Scan# 193
Delta R.T. -0.02 min
Lab File: VF060118.D
Acq: 24 Aug 2018 23:40

Tgt Ion: 43 Resp: 1312
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.6#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.27 min Scan# 177

Delta R.T. -0.00 min

Lab File: VF060118.D

Acq: 24 Aug 2018 23:40

Instrument :

MSVOA_F

ClientSampleId :

SONO-S

Tot Ion: 84 Resp: 4135

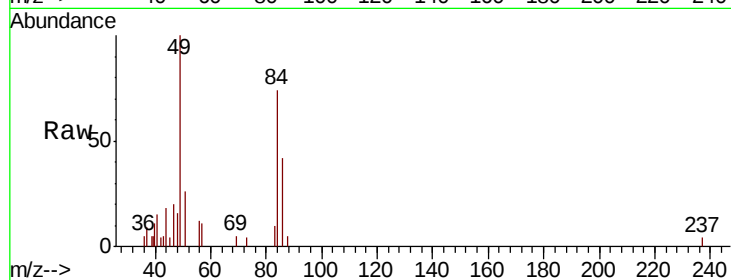
Ion Ratio Lower Upper

84 100

49 135.0 125.4 188.0

51 34.8 38.3 57.5#

86 56.6 53.3 79.9

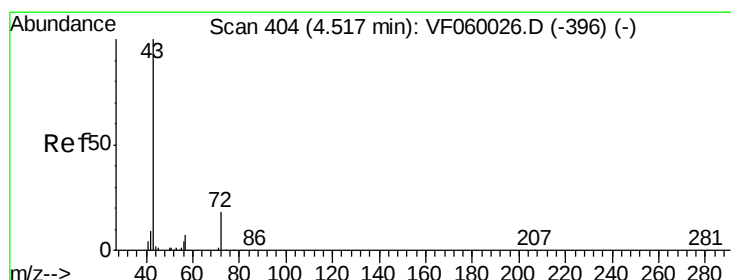
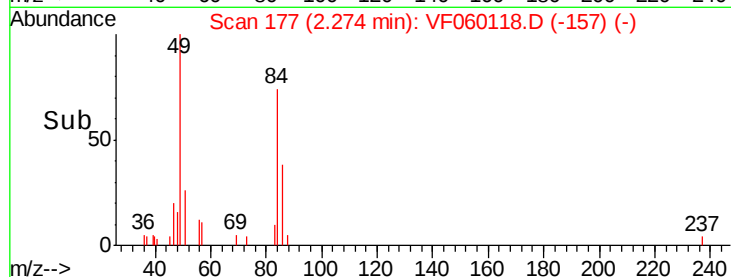
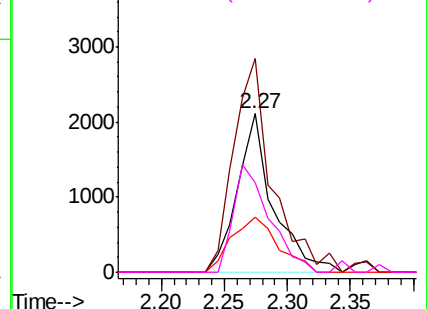


Abundance Ion 84.00 (83.70 to 84.70): VF0

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: 11.28 ug/l

RT: 4.47 min Scan# 400

Delta R.T. -0.04 min

Lab File: VF060118.D

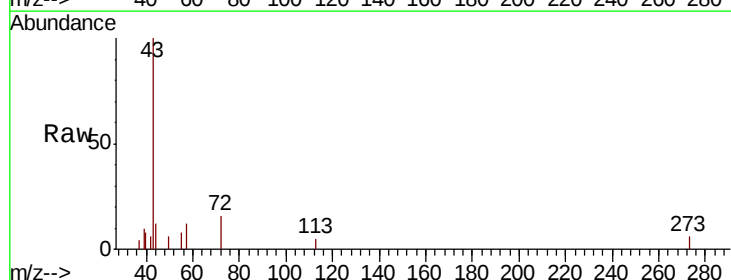
Acq: 24 Aug 2018 23:40

Tgt Ion: 43 Resp: 7307

Ion Ratio Lower Upper

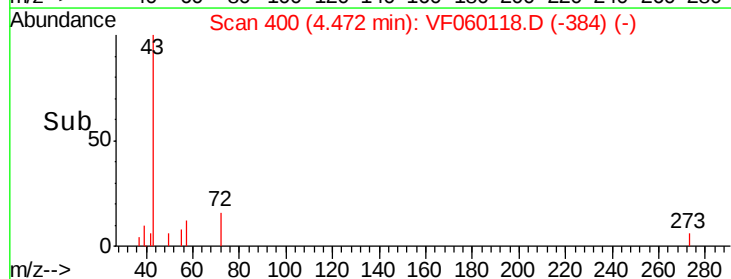
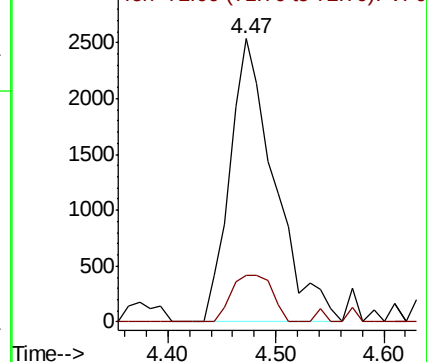
43 100

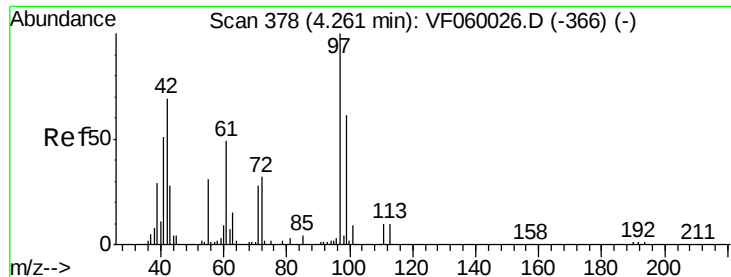
72 16.3 15.0 22.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.55 ug/l

RT: 4.24 min Scan# 376

Delta R.T. -0.02 min

Lab File: VF060118.D

Acq: 24 Aug 2018 23:40

Instrument :

MSVOA_F

ClientSampleId :

SONO-S

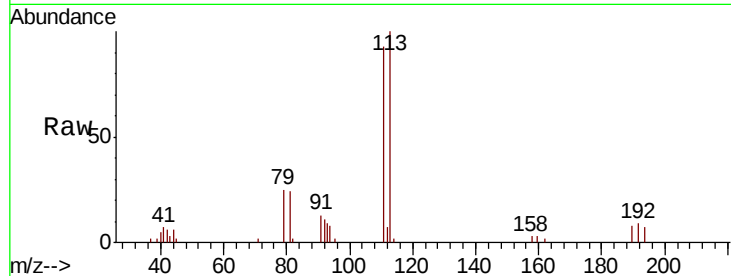
Tot Ion: 42 Resp: 624

Ion Ratio Lower Upper

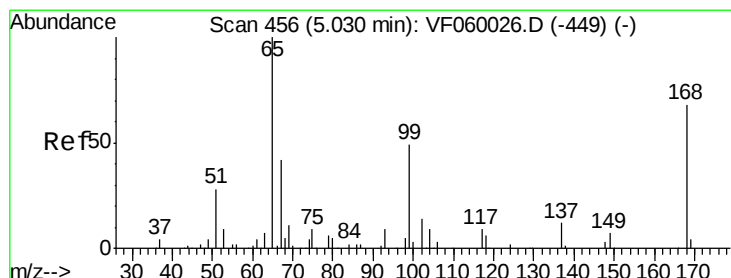
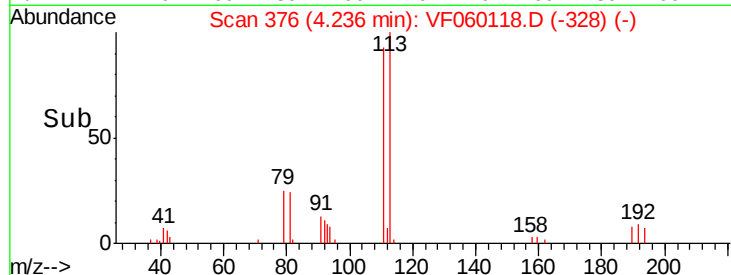
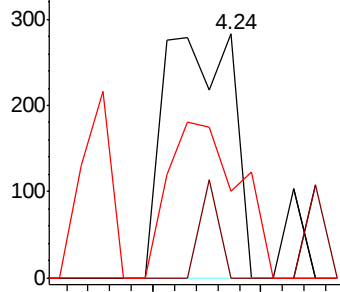
42 100

72 10.7 31.4 47.2#

71 66.2 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: 36.89 ug/l

RT: 4.99 min Scan# 453

Delta R.T. -0.03 min

Lab File: VF060118.D

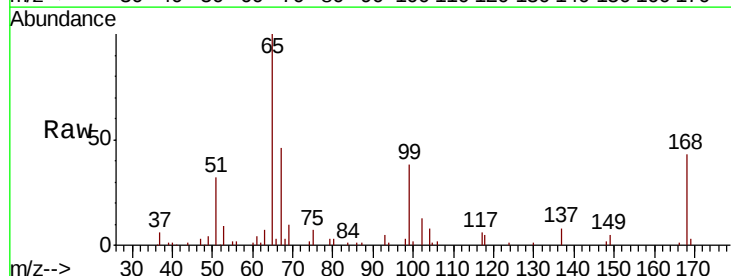
Acq: 24 Aug 2018 23:40

Tgt Ion: 65 Resp: 70028

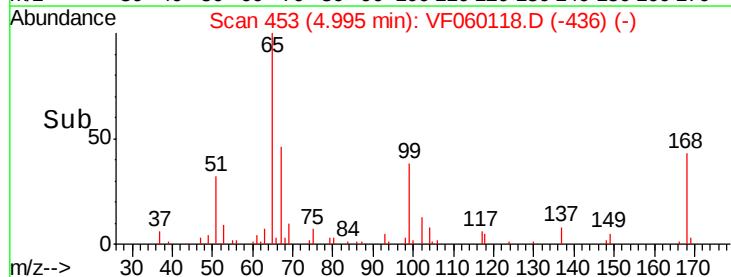
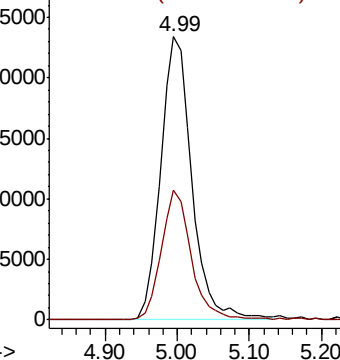
Ion Ratio Lower Upper

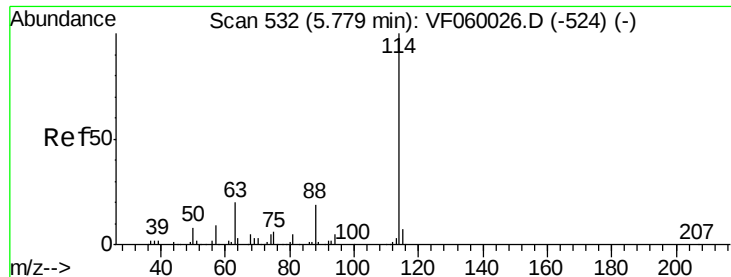
65 100

67 45.9 0.0 92.0



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.74 min Scan# 529

Delta R.T. -0.03 min

Lab File: VF060118.D

Acq: 24 Aug 2018 23:40

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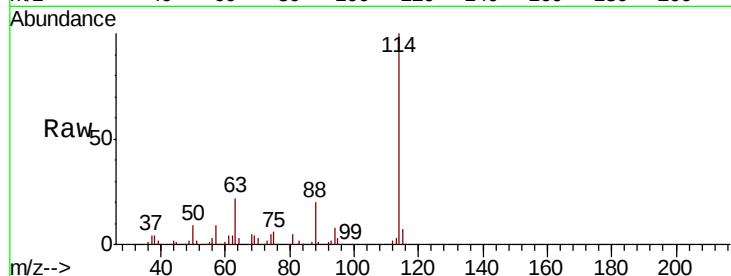
Tot Ion:114 Resp: 196070

Ion Ratio Lower Upper

114 100

63 21.7 0.0 40.4

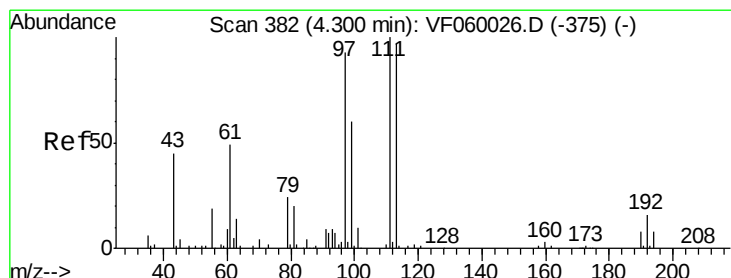
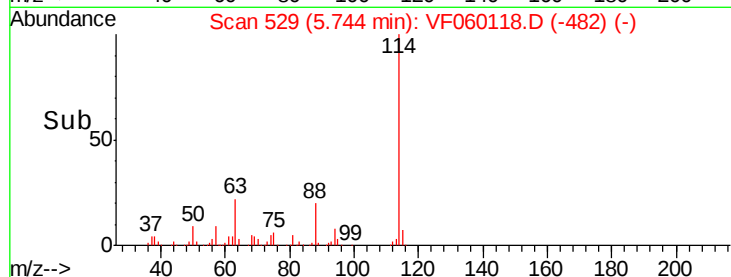
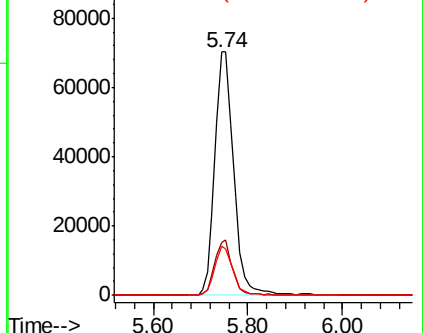
88 20.0 0.0 38.6



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: 50.30 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.03 min

Lab File: VF060118.D

Acq: 24 Aug 2018 23:40

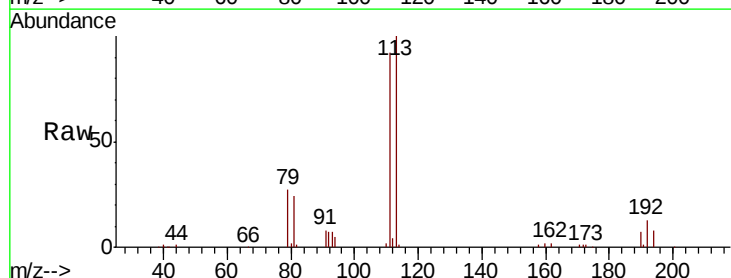
Tgt Ion:113 Resp: 77440

Ion Ratio Lower Upper

113 100

111 91.1 82.7 124.1

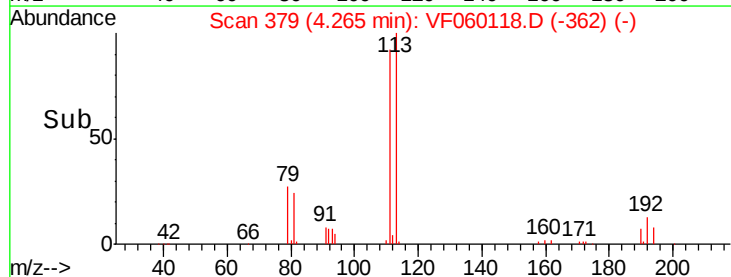
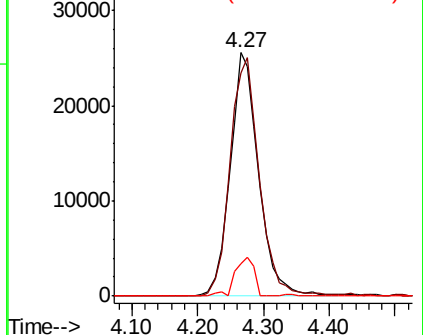
192 13.0 13.0 19.4

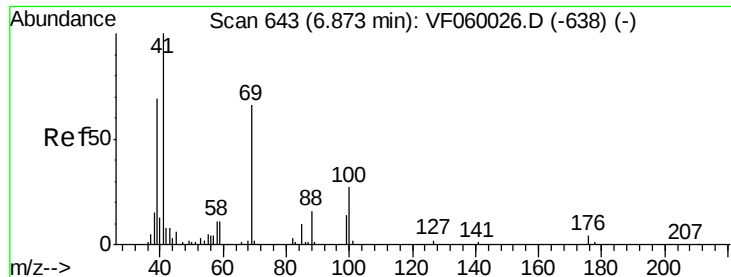


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 7.49 ug/l

RT: 6.89 min Scan# 645

Delta R.T. 0.01 min

Lab File: VF060118.D

Acq: 24 Aug 2018 23:40

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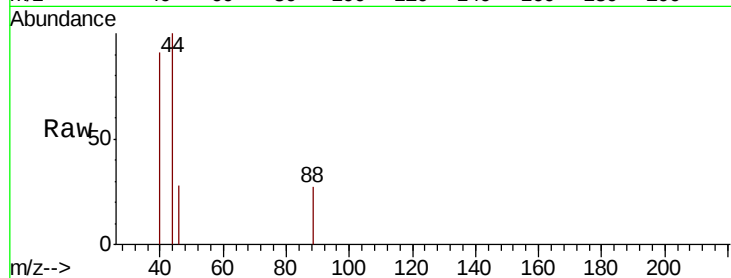
Tot Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 0.0 46.5 69.7#

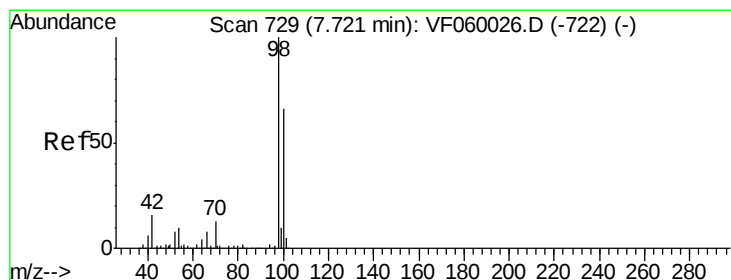
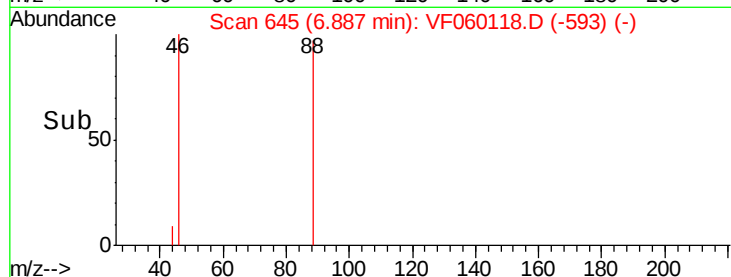
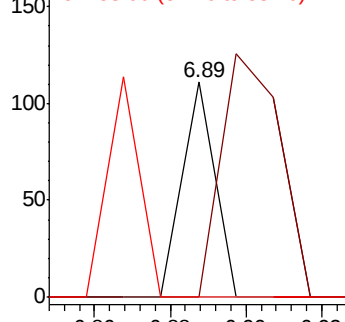
58 0.0 54.8 82.2#



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: 45.86 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.02 min

Lab File: VF060118.D

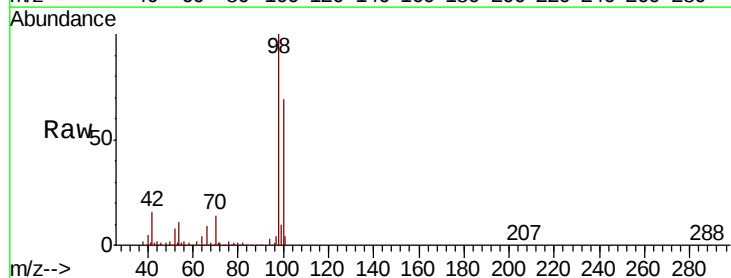
Acq: 24 Aug 2018 23:40

Tgt Ion: 98 Resp: 200532

Ion Ratio Lower Upper

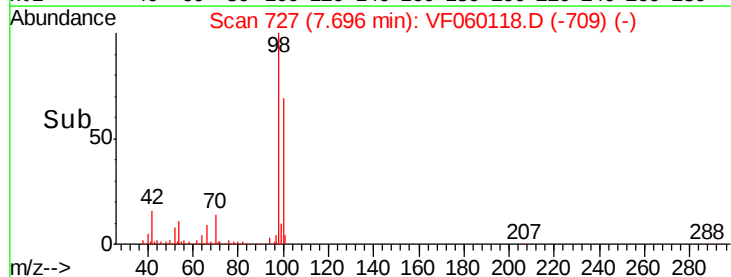
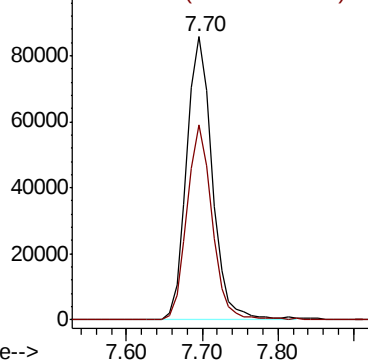
98 100

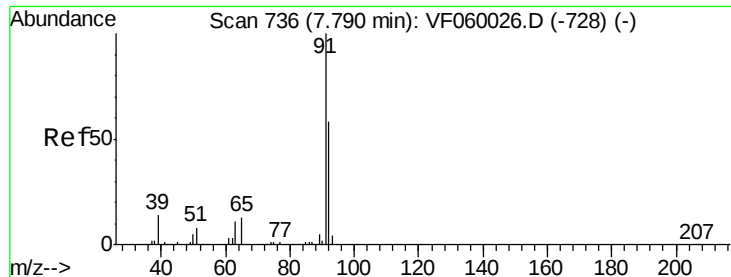
100 68.8 53.2 79.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#52

Toluene

Concen: Below Cal

RT: 7.76 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF060118.D

Acq: 24 Aug 2018 23:40

Instrument :

MSVOA_F

ClientSampleId :

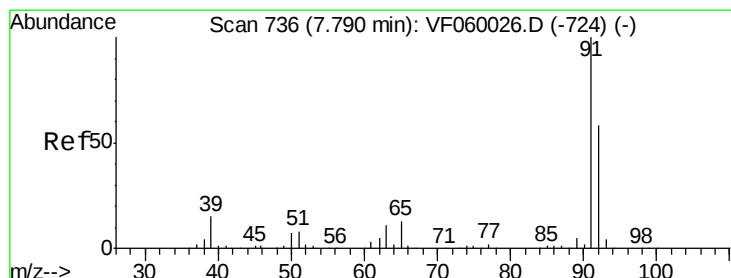
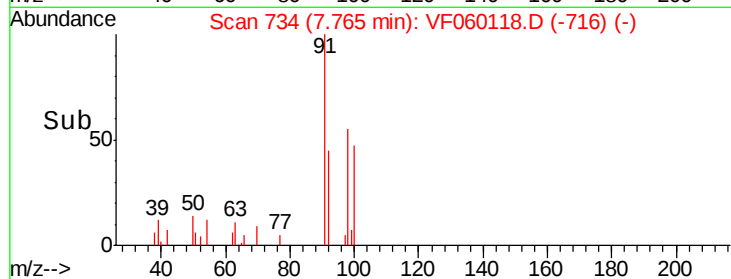
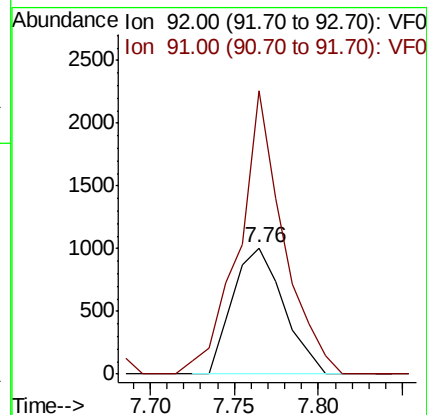
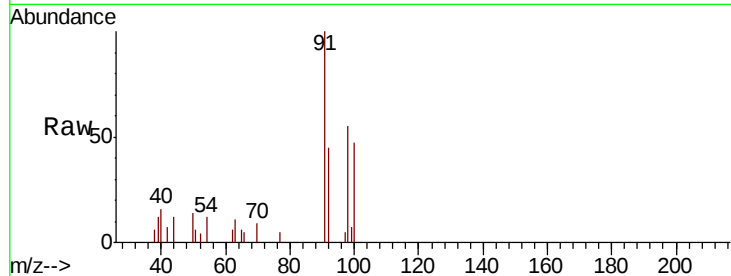
SONO-S

Tot Ion: 92 Resp: 2109

Ion Ratio Lower Upper

92 100

91 224.4 137.7 206.5#



#58

2-Chloroethyl Vinyl ether

Concen: 4.73 ug/l

RT: 7.76 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF060118.D

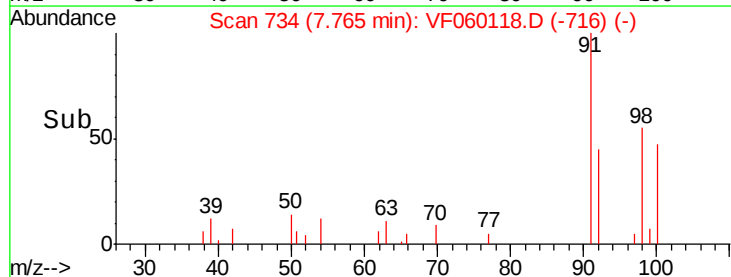
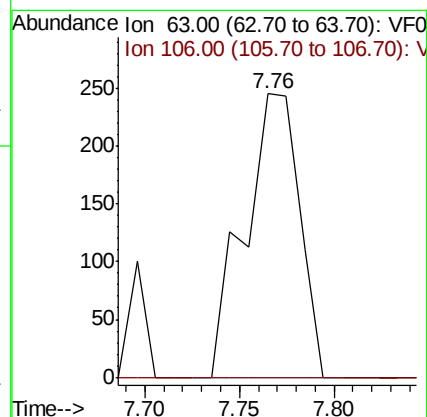
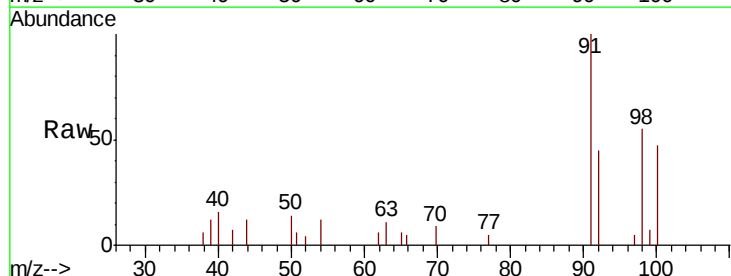
Acq: 24 Aug 2018 23:40

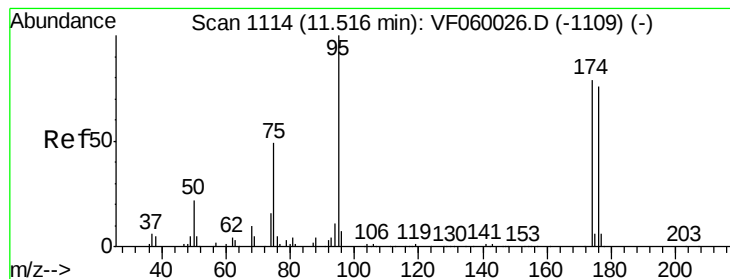
Tgt Ion: 63 Resp: 494

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





#62

4-Bromofluorobenzene

Concen: 31.10 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.02 min

Lab File: VF060118.D

Acq: 24 Aug 2018 23:40

Instrument :

MSVOA_F

ClientSampleId :

SONO-S

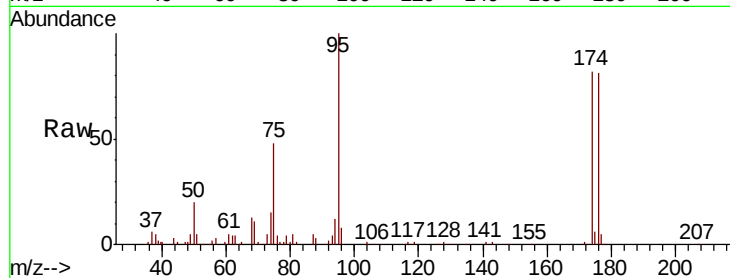
Tot Ion: 95 Resp: 71948

Ion Ratio Lower Upper

95 100

174 82.1 0.0 158.4

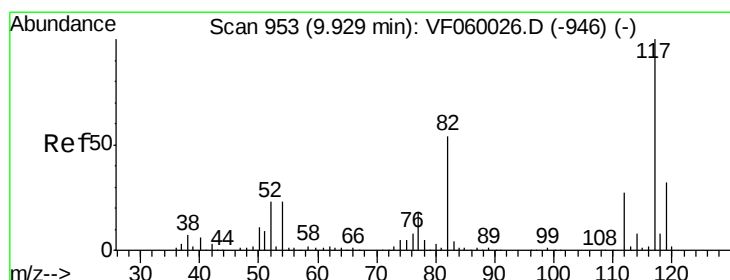
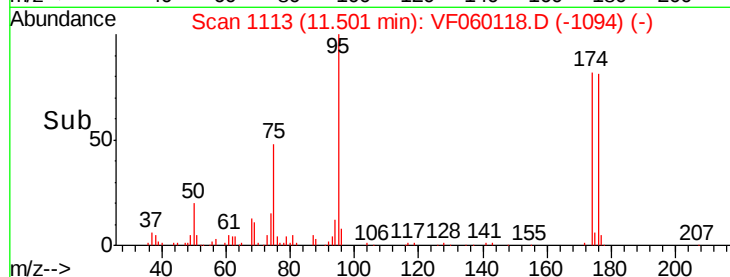
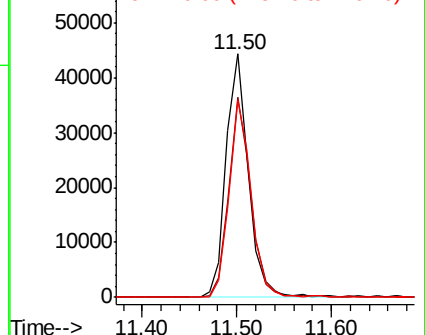
176 80.9 0.0 153.0



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



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.90 min Scan# 951

Delta R.T. -0.02 min

Lab File: VF060118.D

Acq: 24 Aug 2018 23:40

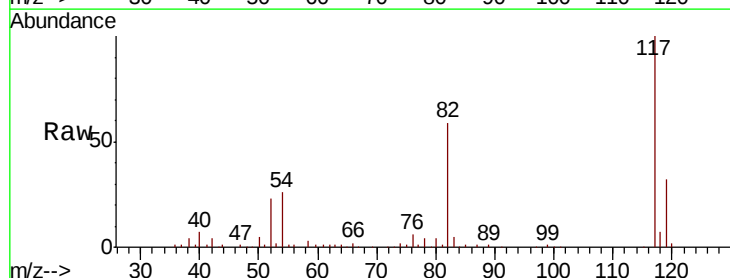
Tgt Ion: 117 Resp: 189682

Ion Ratio Lower Upper

117 100

82 59.4 43.6 65.4

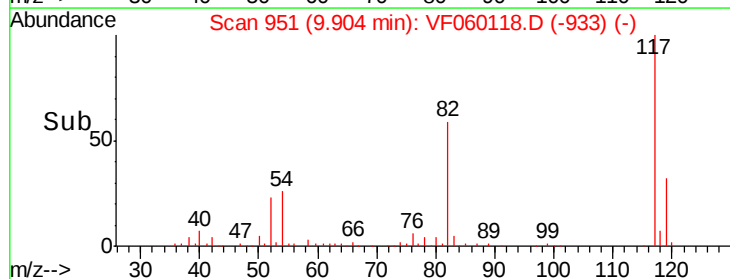
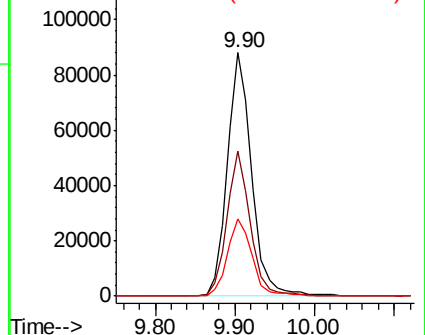
119 31.8 25.6 38.4

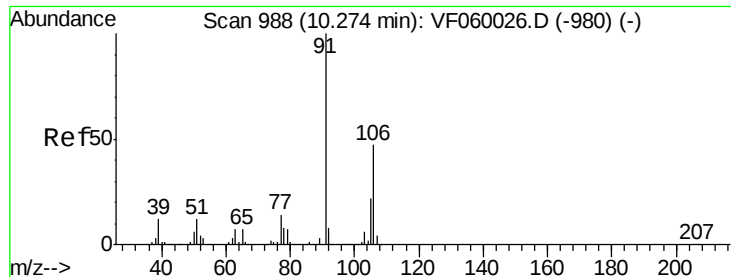


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

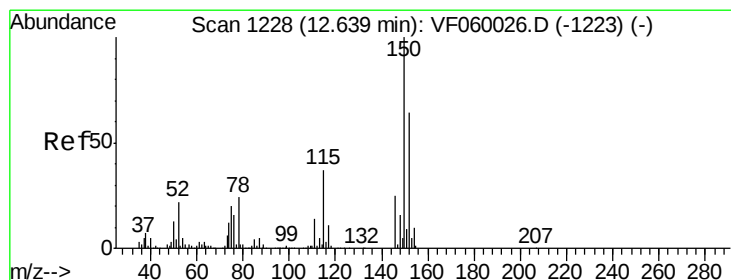
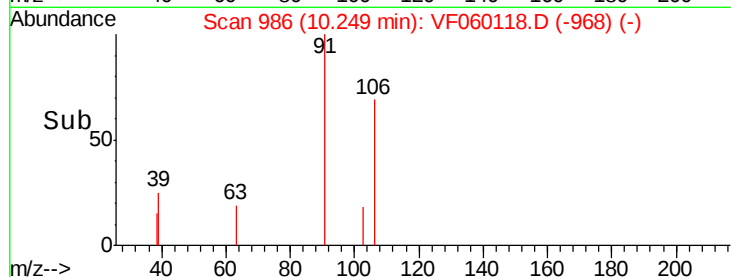
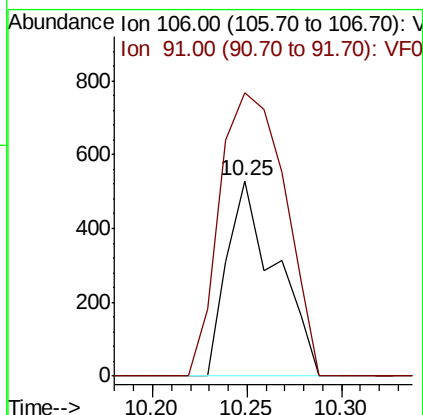
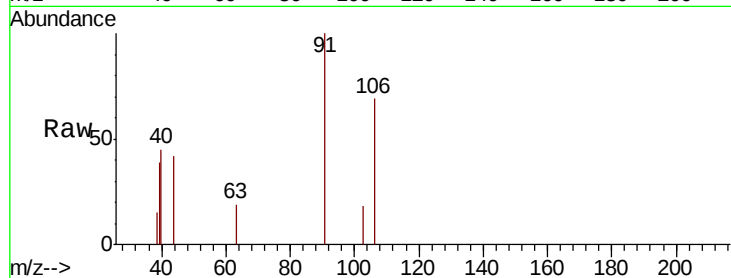




#68
m/p-Xvlenes
Concen: Below Cal
RT: 10.25 min Scan# 986
Delta R.T. -0.02 min
Lab File: VF060118.D
Acq: 24 Aug 2018 23:40

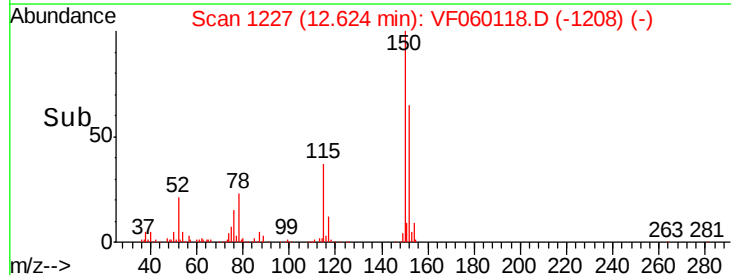
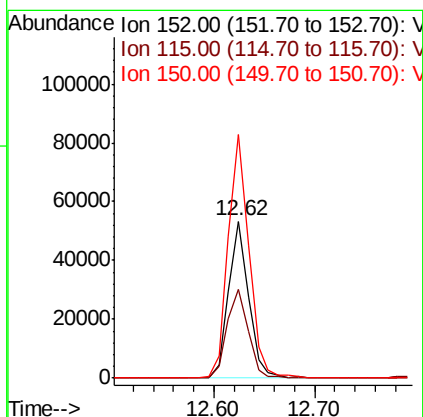
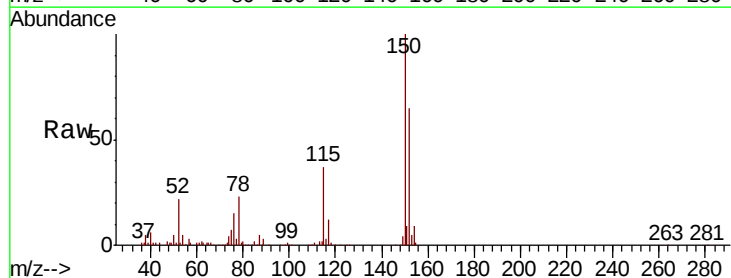
Instrument :
MSVOA_F
ClientSampleId :
SONO-S

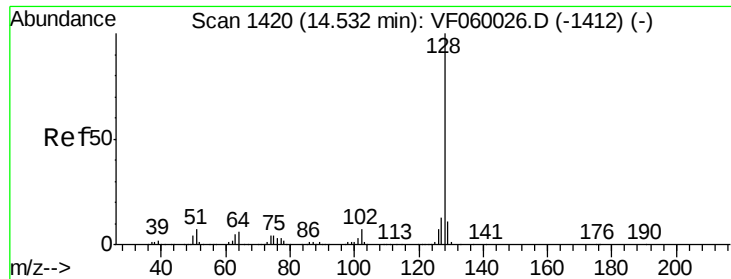
Tot Ion:106 Resp: 950
Ion Ratio Lower Upper
106 100
91 144.7 171.8 257.8#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. -0.02 min
Lab File: VF060118.D
Acq: 24 Aug 2018 23:40

Tgt Ion:152 Resp: 73916
Ion Ratio Lower Upper
152 100
115 56.6 28.6 85.9
150 154.9 0.0 312.0





#95

Naphthalene

Concen: 2.48 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. -0.02 min

Lab File: VF060118.D

Acq: 24 Aug 2018 23:40

Instrument :

MSVOA_F

ClientSampleId :

SONO-S

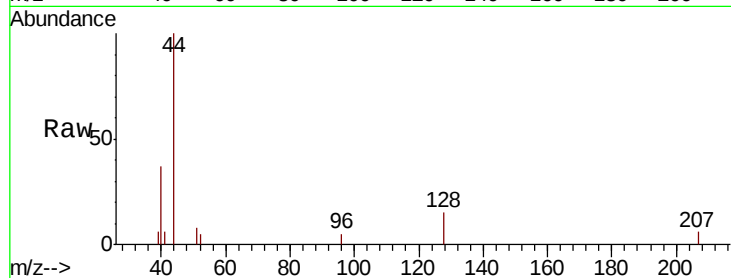
Tot Ion:128 Resp: 558

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.5 12.7#



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

