

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059438.D
 Acq On : 5 Jul 2018 17:08
 Operator : VA/AP
 Sample : J3845-12
 Misc : 5.02g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 06 02:05:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	232159	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.73	114	343399	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.89	117	345109	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	224471	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.98	65	165362	55.13	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	110.26%	
35) Dibromofluoromethane	4.25	113	147622	58.83	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	117.66%	
50) Toluene-d8	7.67	98	301474	48.53	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	97.06%	
62) 4-Bromofluorobenzene	11.49	95	189900	54.19	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	108.38%	

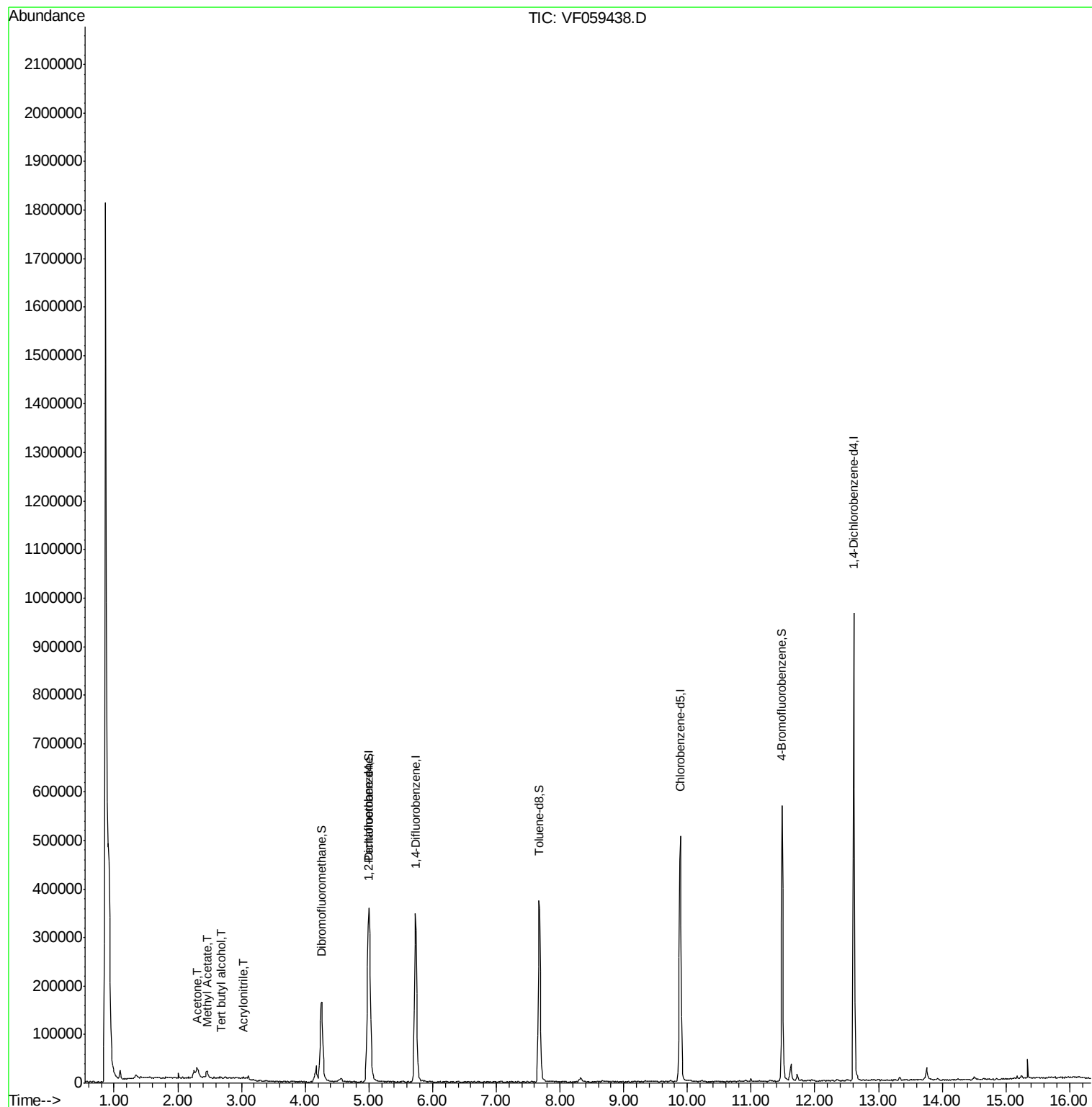
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.20	94	129	Below Cal		82
11) Tert butyl alcohol	2.67	59	1446	7.241 ug/l #		14
13) Acrolein	2.04	56	305	Below Cal		100
15) Acrylonitrile	3.04	53	509	1.447 ug/l #		23
16) Acetone	2.31	43	8365	1.008 ug/l		95
18) Methyl Acetate	2.45	43	5821	3.211 ug/l #		61
25) 2-Butanone	4.49	43	1273	Below Cal #		59
28) Bromochloromethane	3.98	49	72	Below Cal #		6
29) Tetrahydrofuran	4.22	42	524	Below Cal #		76
37) Ethyl Acetate	4.29	43	473	Below Cal #		26
49) 1,4-Dioxane	6.55	88	69	Below Cal #		38
59) 2-Hexanone	9.61	43	268	Below Cal		88
87) 1,3-Dichlorobenzene	12.54	146	353	Below Cal		76

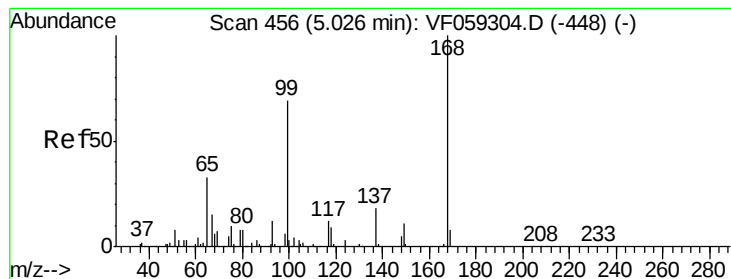
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

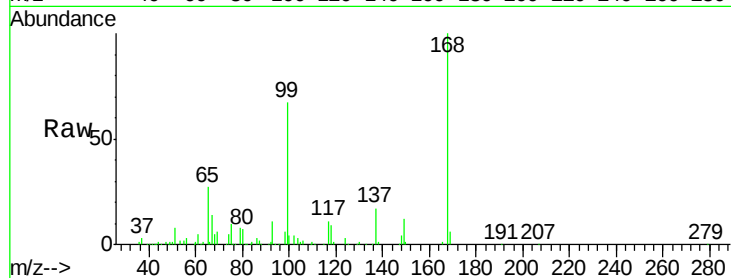
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 232159

Ion Ratio Lower Upper

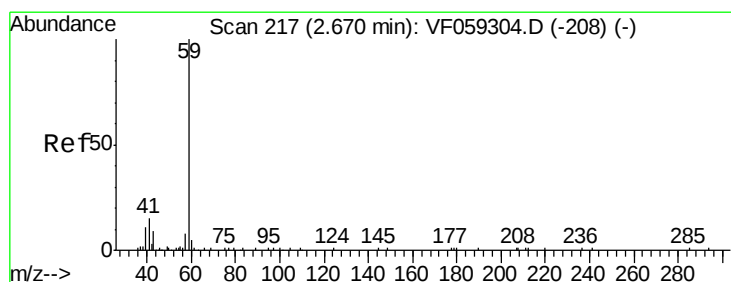
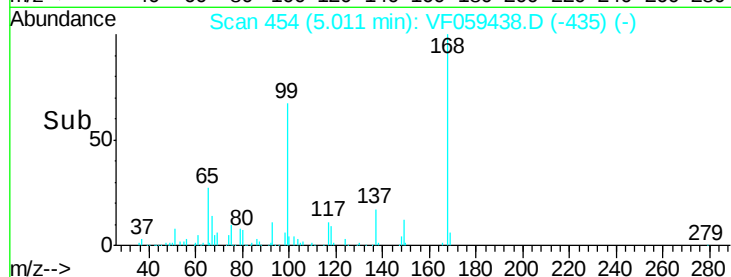
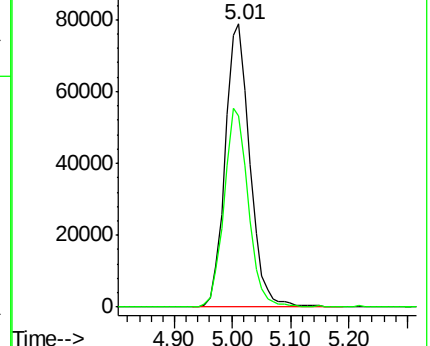
168 100

99 67.5 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 7.241 ug/l

RT: 2.67 min Scan# 217

Delta R.T. 0.00 min

Lab File: VF059438.D

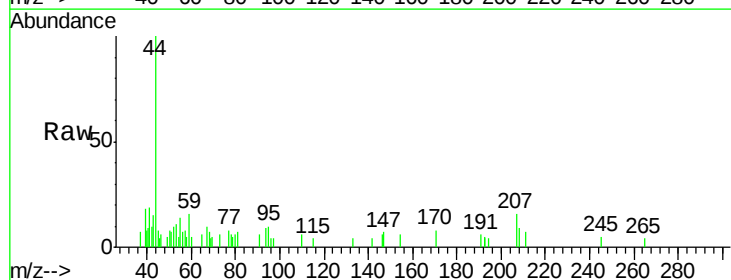
Acq: 5 Jul 2018 17:08

Tgt Ion: 59 Resp: 1446

Ion Ratio Lower Upper

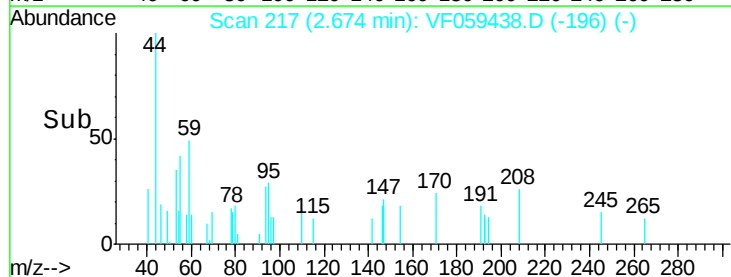
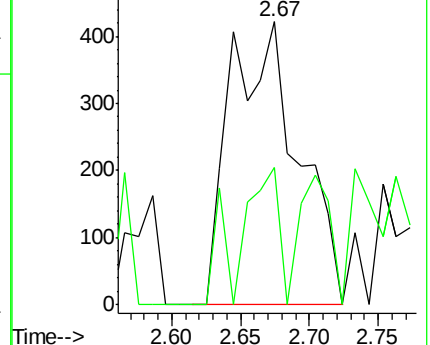
59 100

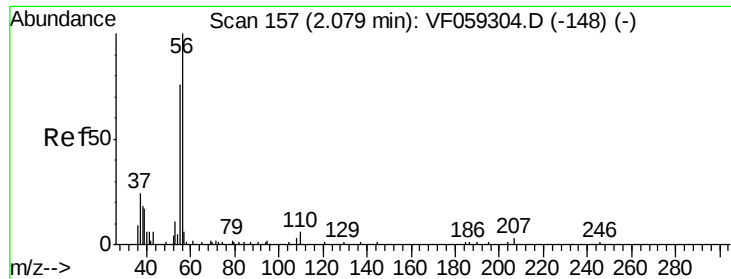
57 48.3 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.04 min Scan# 153

Delta R.T. -0.03 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

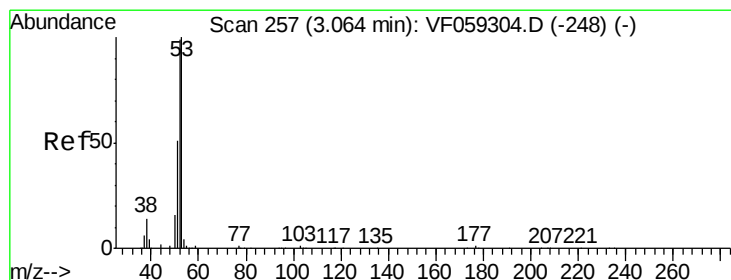
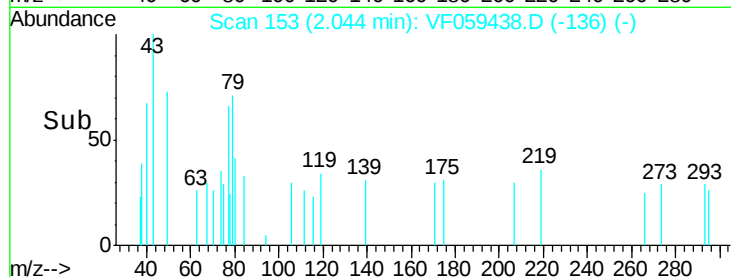
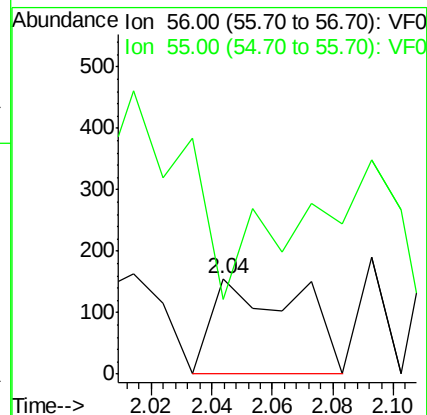
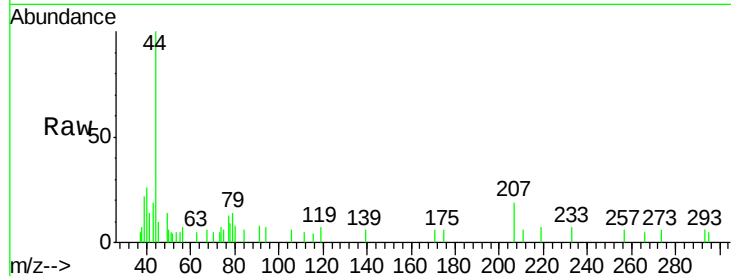
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 305

Ion Ratio Lower Upper

56 100

55 78.1 62.4 93.6



#15

Acrylonitrile

Concen: 1.447 ug/l

RT: 3.04 min Scan# 254

Delta R.T. -0.03 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

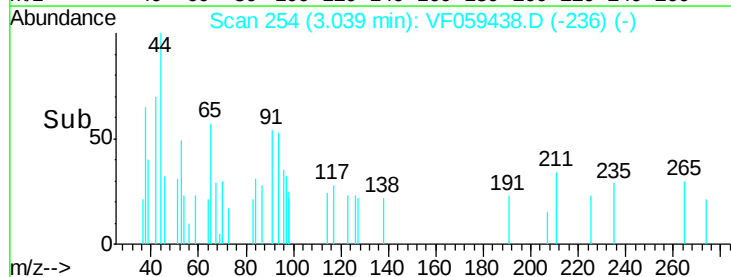
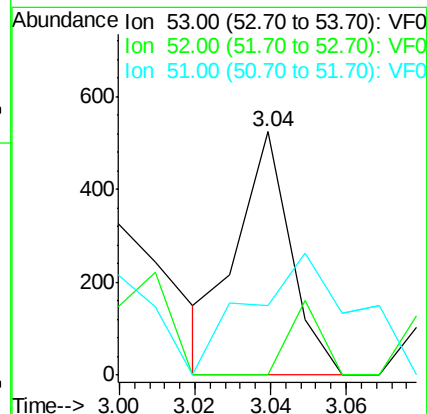
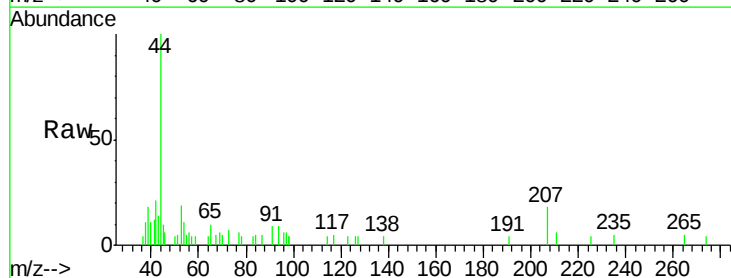
Tgt Ion: 53 Resp: 509

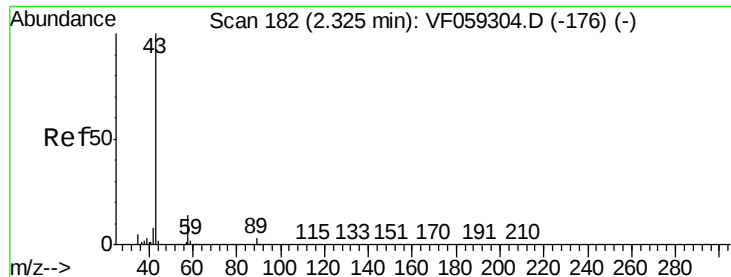
Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

51 28.8 40.9 61.3#





#16

Acetone

Concen: 1.008 ug/l

RT: 2.31 min Scan# 180

Delta R.T. -0.02 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

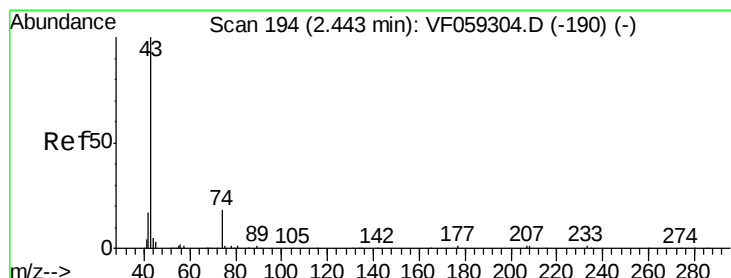
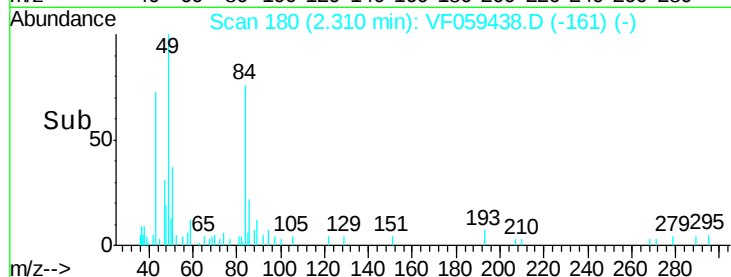
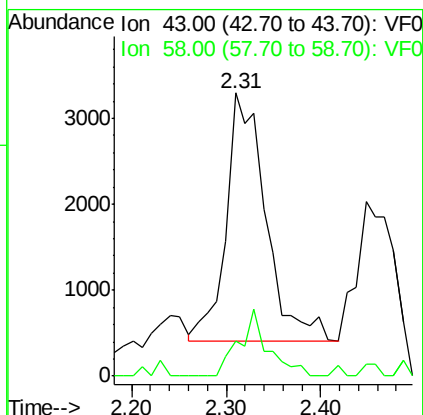
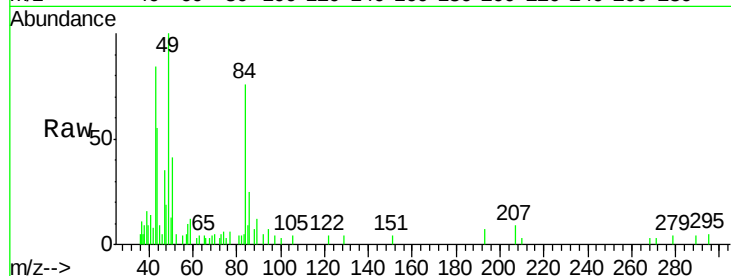
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 8365

Ion Ratio Lower Upper

43 100

58 12.3 11.4 17.0



#18

Methyl Acetate

Concen: 3.211 ug/l

RT: 2.45 min Scan# 194

Delta R.T. 0.00 min

Lab File: VF059438.D

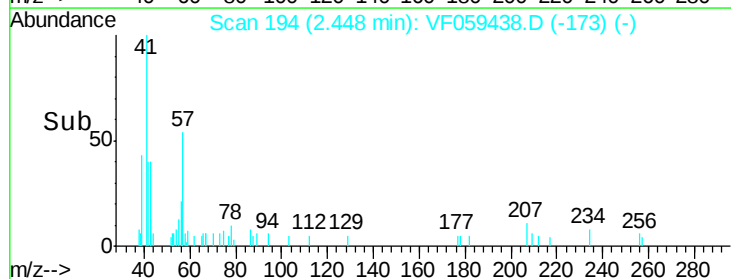
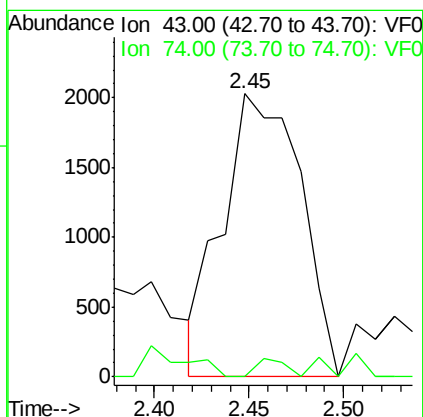
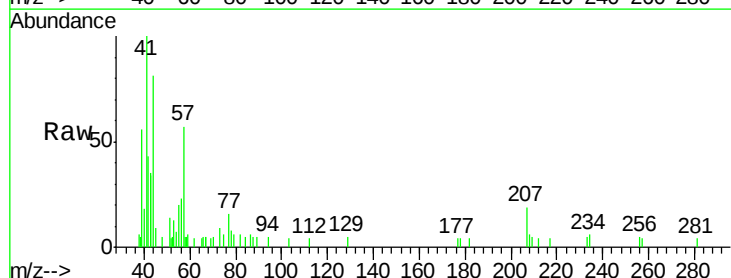
Acq: 5 Jul 2018 17:08

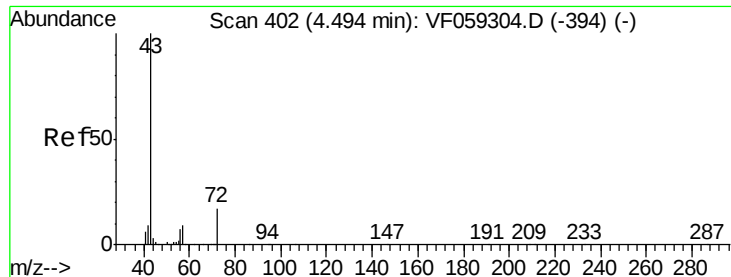
Tgt Ion: 43 Resp: 5821

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#





#25

2-Butanone

Concen: Below Cal

RT: 4.49 min Scan# 401

Delta R.T. -0.00 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

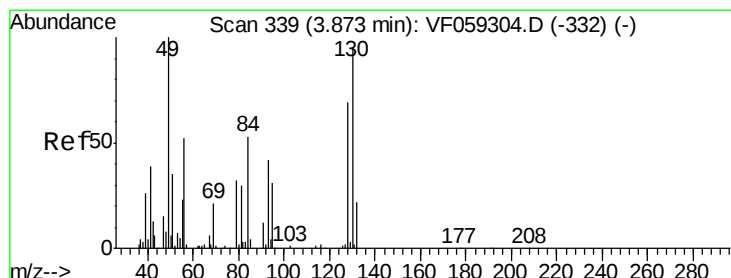
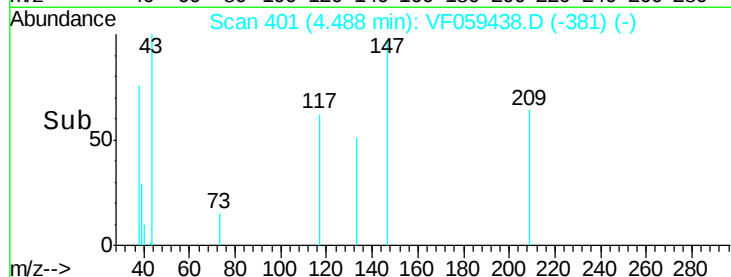
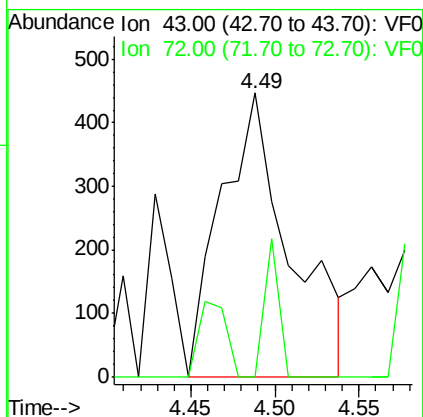
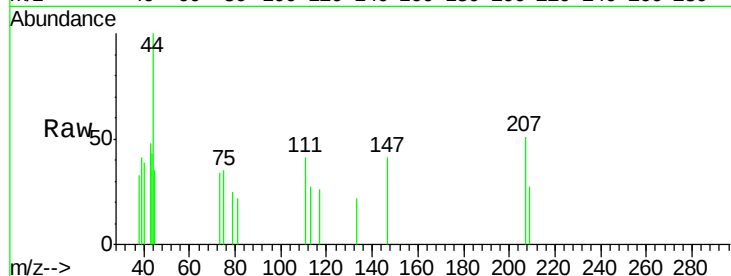
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1273

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 3.98 min Scan# 349

Delta R.T. 0.10 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

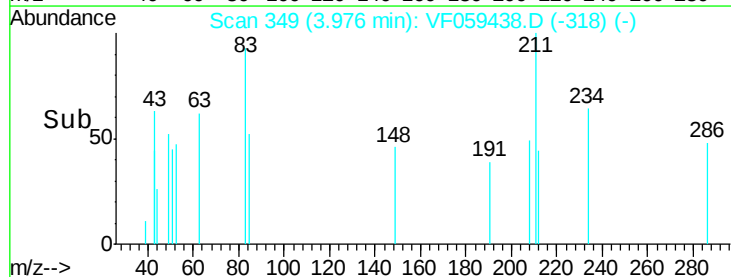
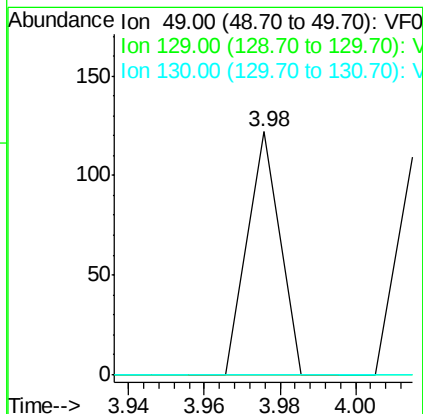
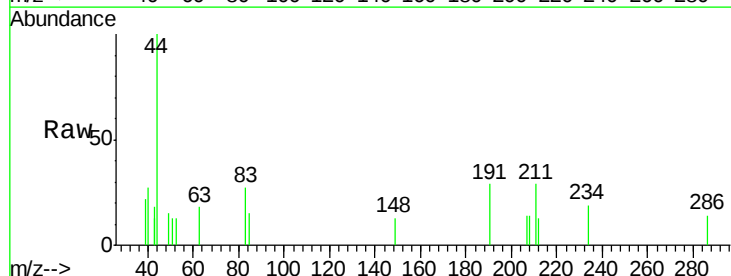
Tgt Ion: 49 Resp: 72

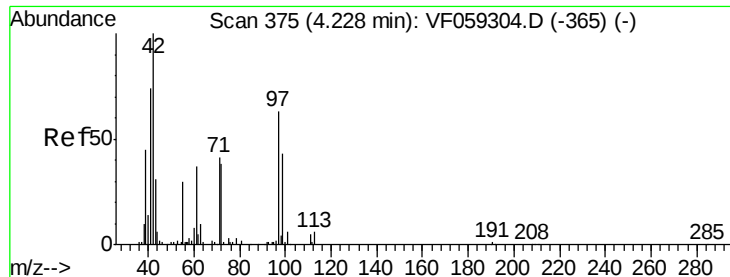
Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

130 0.0 75.1 112.7#

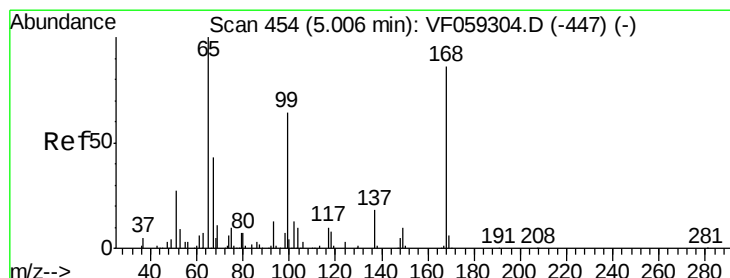
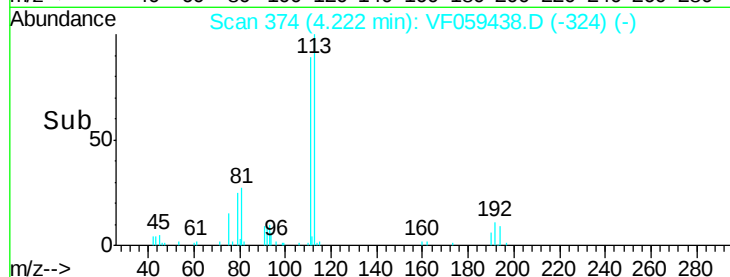
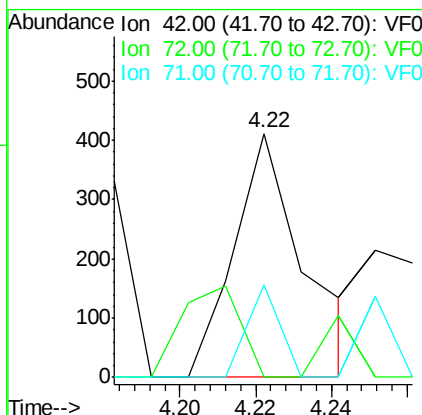
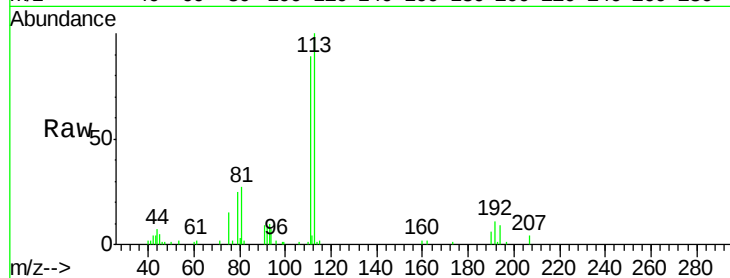




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.22 min Scan# 374
Delta R.T. -0.00 min
Lab File: VF059438.D
Acq: 5 Jul 2018 17:08

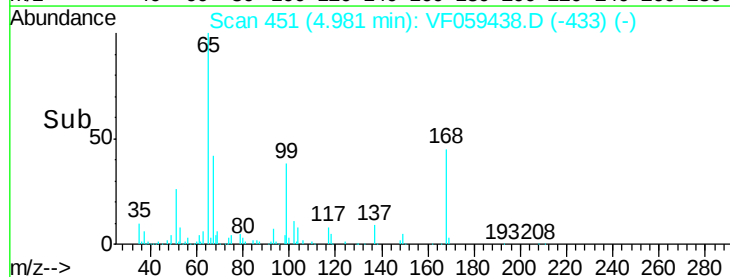
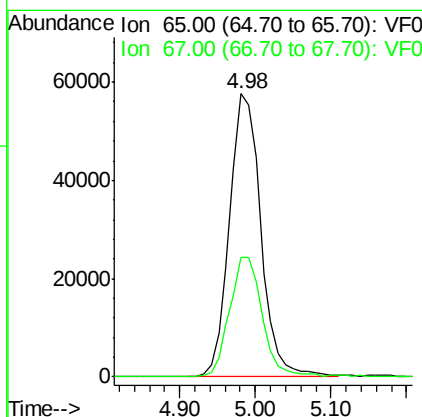
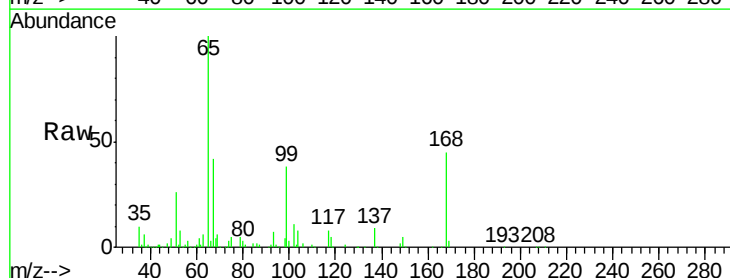
Instrument :
MSVOA_F
ClientSampleId :

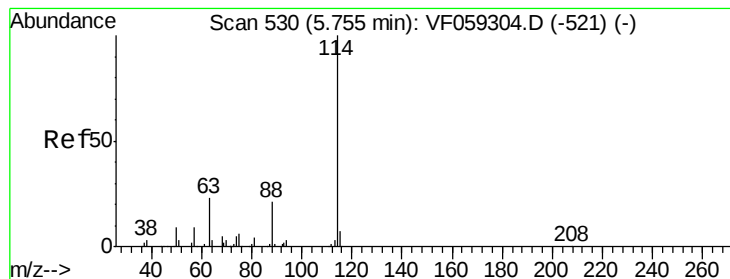
Tot Ion: 42 Resp: 524
Ion Ratio Lower Upper
42 100
72 31.7 30.5 45.7
71 17.7 32.5 48.7#



#33
1,2-Dichloroethane-d4
Concen: 55.131 ug/l
RT: 4.98 min Scan# 451
Delta R.T. -0.03 min
Lab File: VF059438.D
Acq: 5 Jul 2018 17:08

Tgt Ion: 65 Resp: 165362
Ion Ratio Lower Upper
65 100
67 42.0 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.73 min Scan# 527

Delta R.T. -0.03 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

Instrument :

MSVOA_F

ClientSampleId :

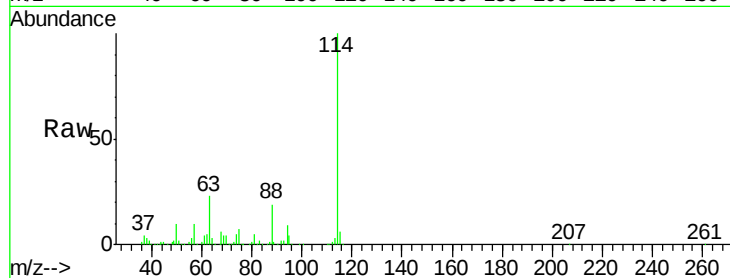
Tot Ion:114 Resp: 343399

Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.8

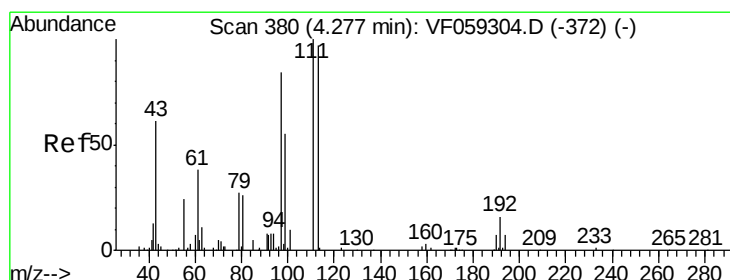
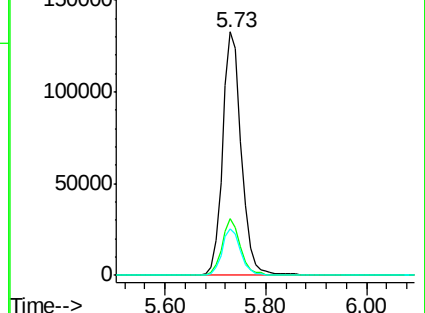
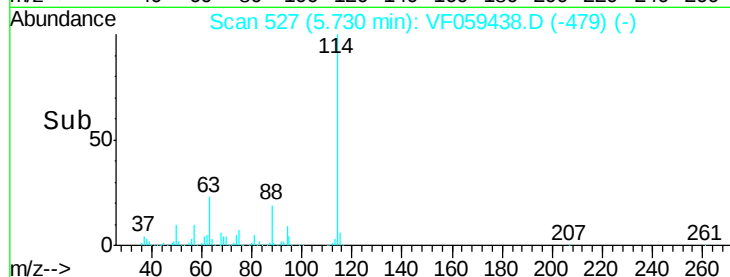
88 19.1 0.0 41.2



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: 58.834 ug/l

RT: 4.25 min Scan# 377

Delta R.T. -0.03 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

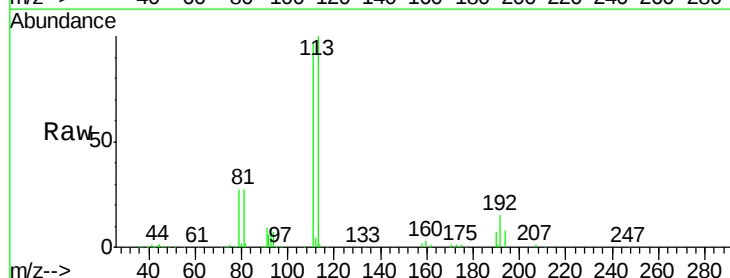
Tgt Ion:113 Resp: 147622

Ion Ratio Lower Upper

113 100

111 96.6 82.1 123.1

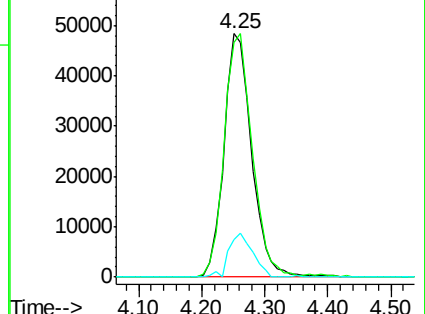
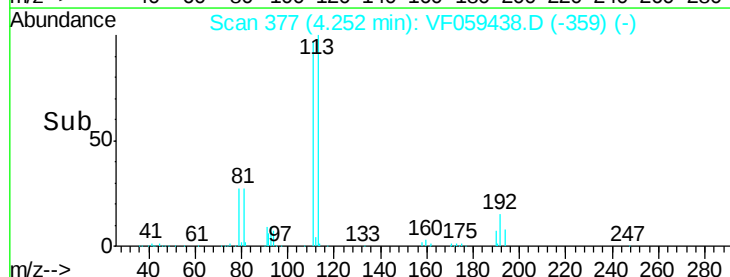
192 15.2 13.0 19.6

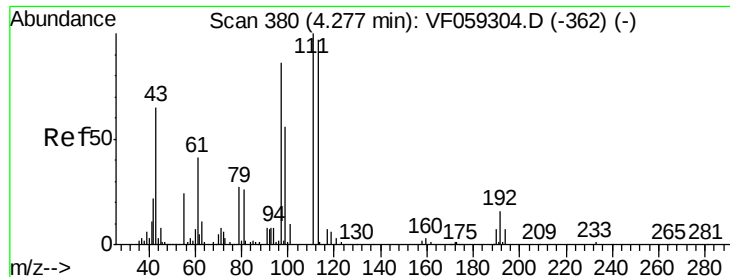


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: Below Cal

RT: 4.29 min Scan# 381

Delta R.T. 0.02 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

Instrument :

MSVOA_F

ClientSampled :

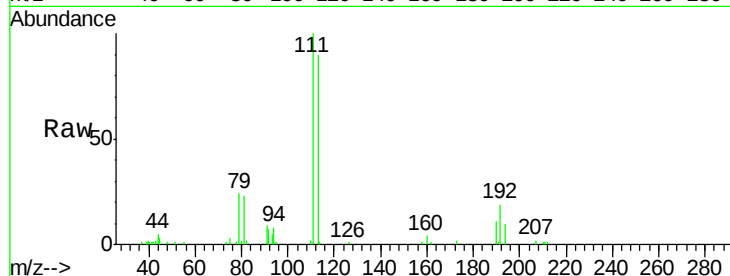
Tot Ion: 43 Resp: 473

Ion Ratio Lower Upper

43 100

61 0.0 50.1 75.1#

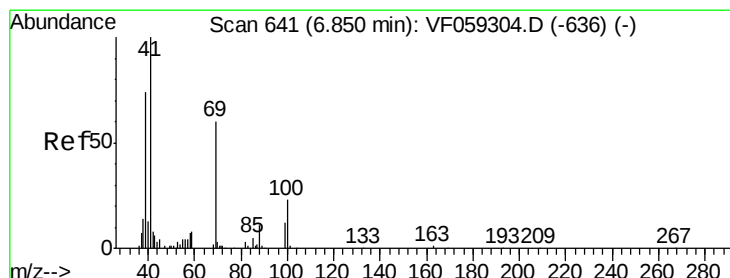
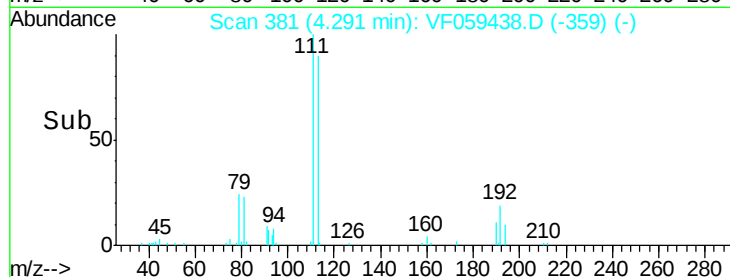
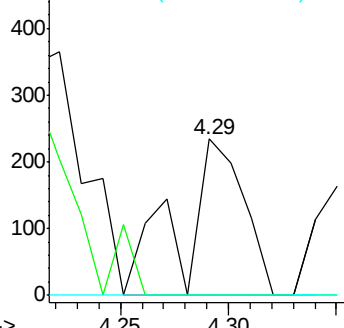
70 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.55 min Scan# 610

Delta R.T. -0.30 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

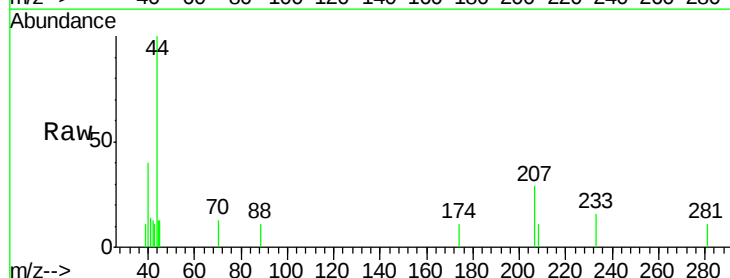
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 99.1 50.6 75.8#

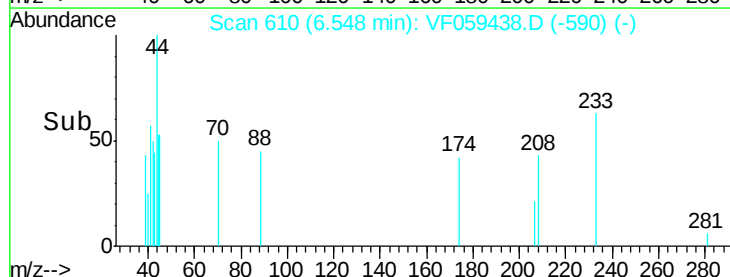
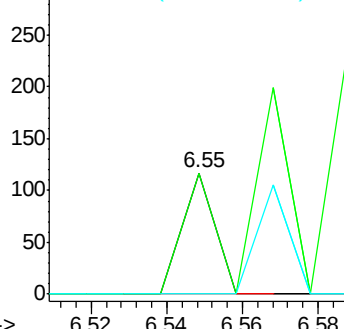
58 0.0 46.6 69.8#

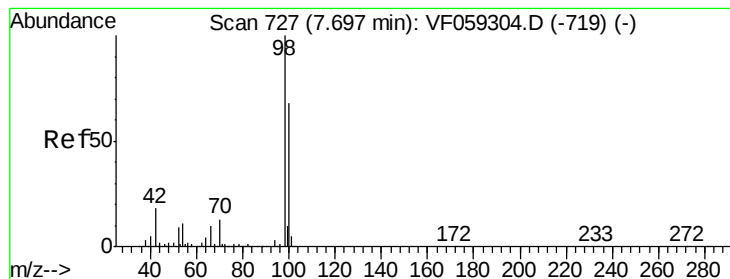


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 48.529 ug/l

RT: 7.67 min Scan# 724

Delta R.T. -0.03 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

Instrument :

MSVOA_F

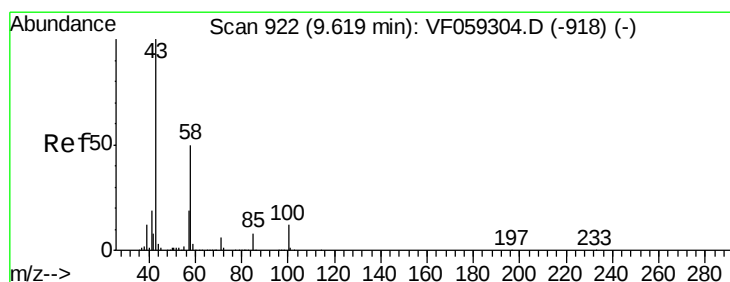
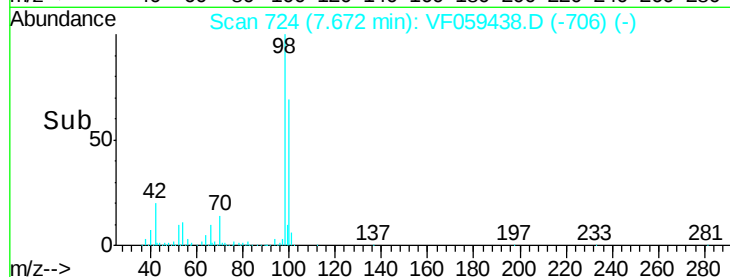
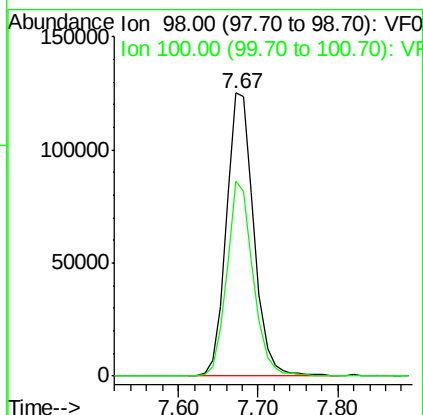
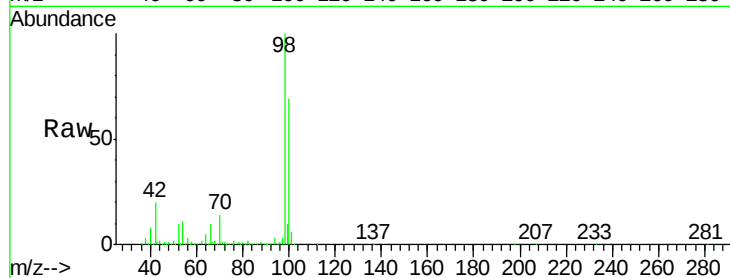
ClientSampleId :

Tot Ion: 98 Resp: 301474

Ion Ratio Lower Upper

98 100

100 69.0 54.6 82.0



#59

2-Hexanone

Concen: Below Cal

RT: 9.61 min Scan# 921

Delta R.T. -0.01 min

Lab File: VF059438.D

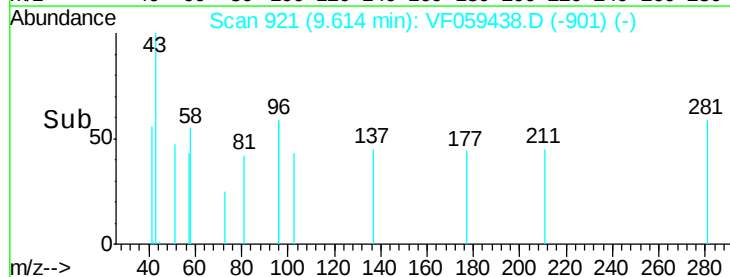
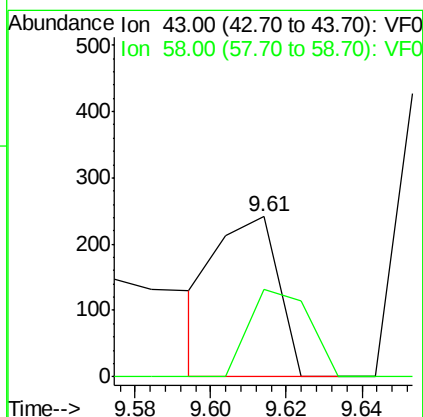
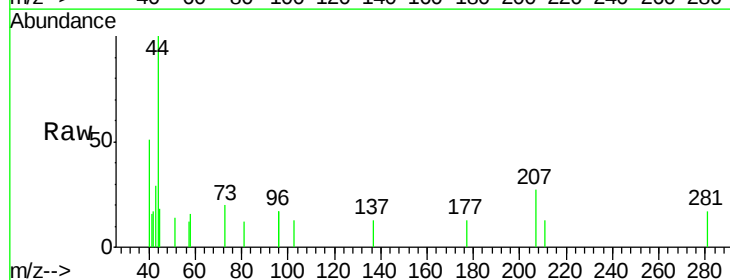
Acq: 5 Jul 2018 17:08

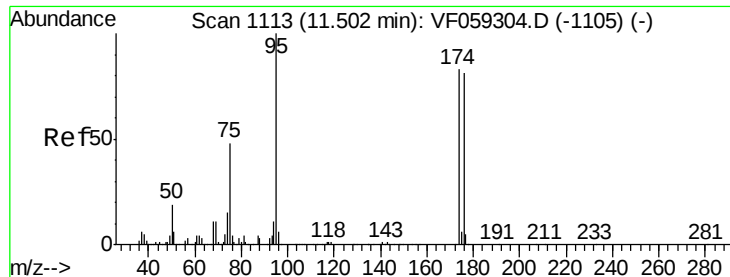
Tgt Ion: 43 Resp: 268

Ion Ratio Lower Upper

43 100

58 54.8 23.3 69.9





#62

4-Bromofluorobenzene

Concen: 54.191 ug/l

RT: 11.49 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

Instrument :

MSVOA_F

ClientSampleId :

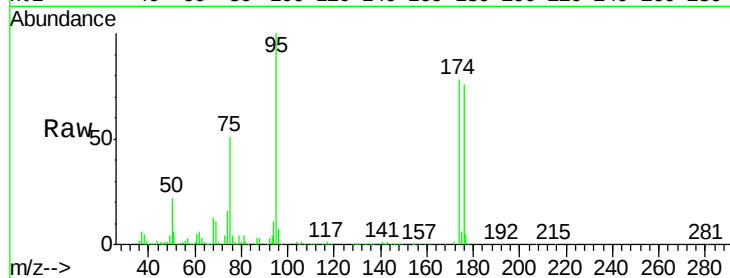
Tot Ion: 95 Resp: 189900

Ion Ratio Lower Upper

95 100

174 77.8 0.0 165.2

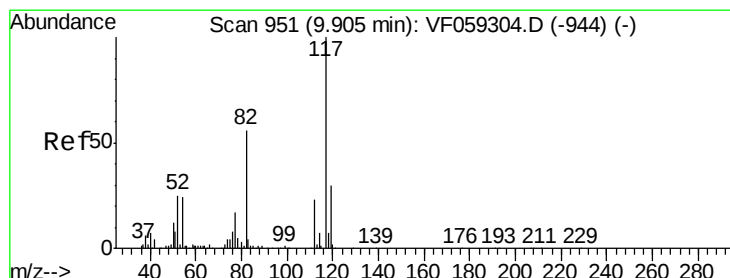
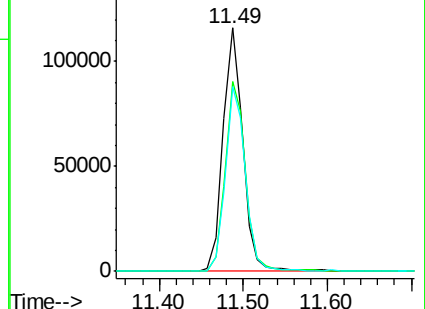
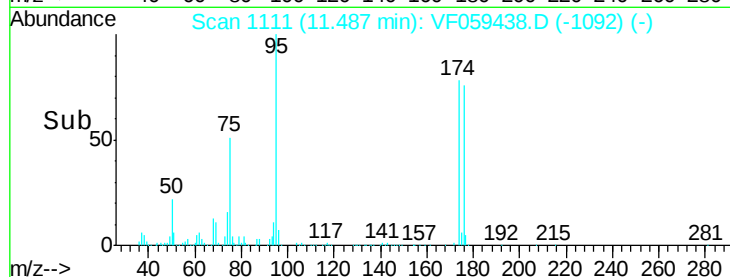
176 76.0 0.0 161.0



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: 9.89 min Scan# 949

Delta R.T. -0.02 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

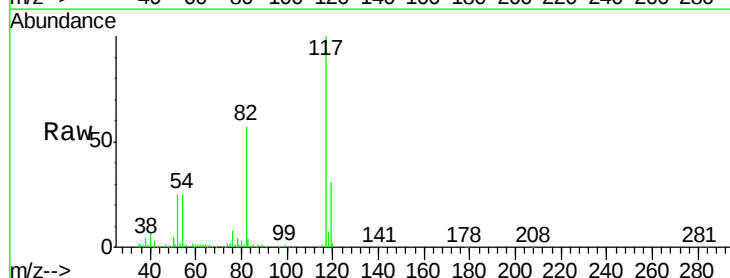
Tgt Ion: 117 Resp: 345109

Ion Ratio Lower Upper

117 100

82 57.0 44.6 66.8

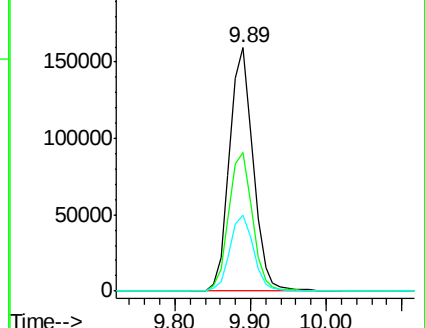
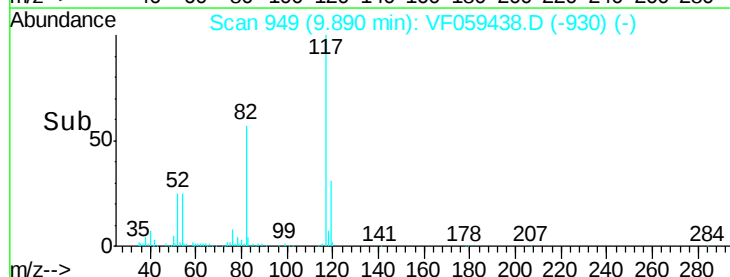
119 31.2 24.1 36.1

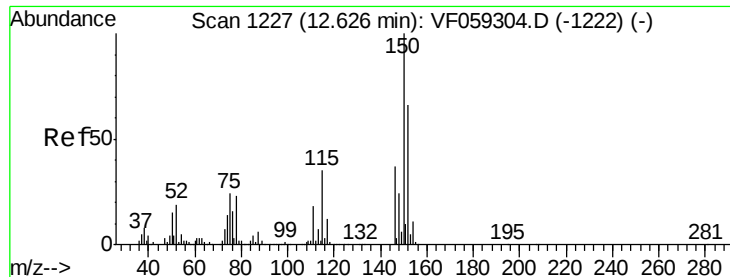


Abundance Ion 117.00 (116.70 to 117.70): VF0

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: 12.61 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

Instrument :

MSVOA_F

ClientSampleId :

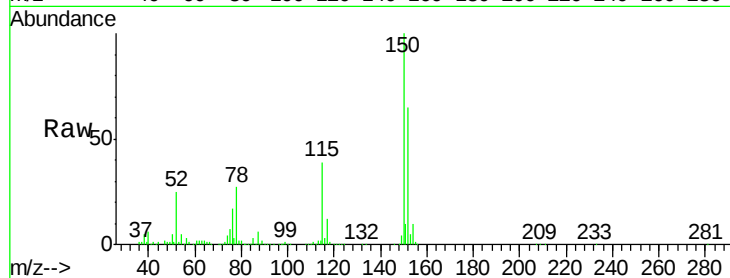
Tot Ion:152 Resp: 224471

Ion Ratio Lower Upper

152 100

115 60.2 27.1 81.3

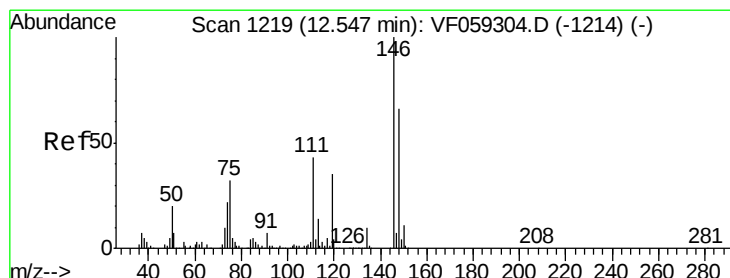
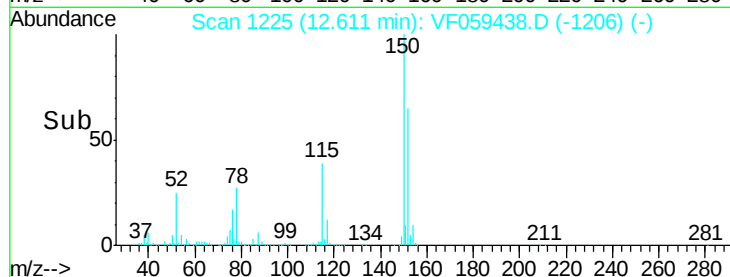
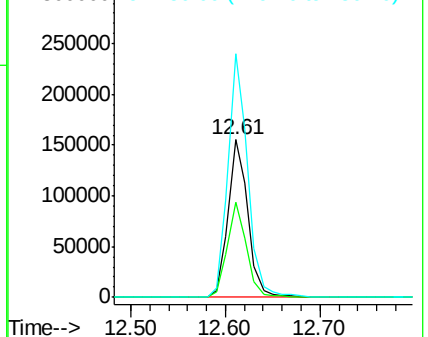
150 154.7 0.0 305.2



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



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059438.D

Acq: 5 Jul 2018 17:08

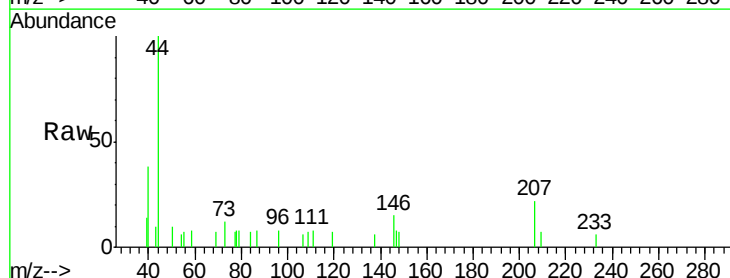
Tgt Ion:146 Resp: 353

Ion Ratio Lower Upper

146 100

111 56.7 21.4 64.2

148 45.7 32.8 98.4



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

