

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070618\
 Data File : VF059460.D
 Acq On : 6 Jul 2018 20:07
 Operator : VA/AP
 Sample : J3868-11
 Misc : 5.91µ/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-TP-5-S

Quant Time: Jul 07 01:51:42 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	194483	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.74	114	291711	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.90	117	265689	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	133048	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	159343	63.42	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	126.84%	
35) Dibromofluoromethane	4.27	113	137813	64.66	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	129.32%	
50) Toluene-d8	7.68	98	284607	53.93	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	107.86%	
62) 4-Bromofluorobenzene	11.50	95	136417	45.83	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.66%	

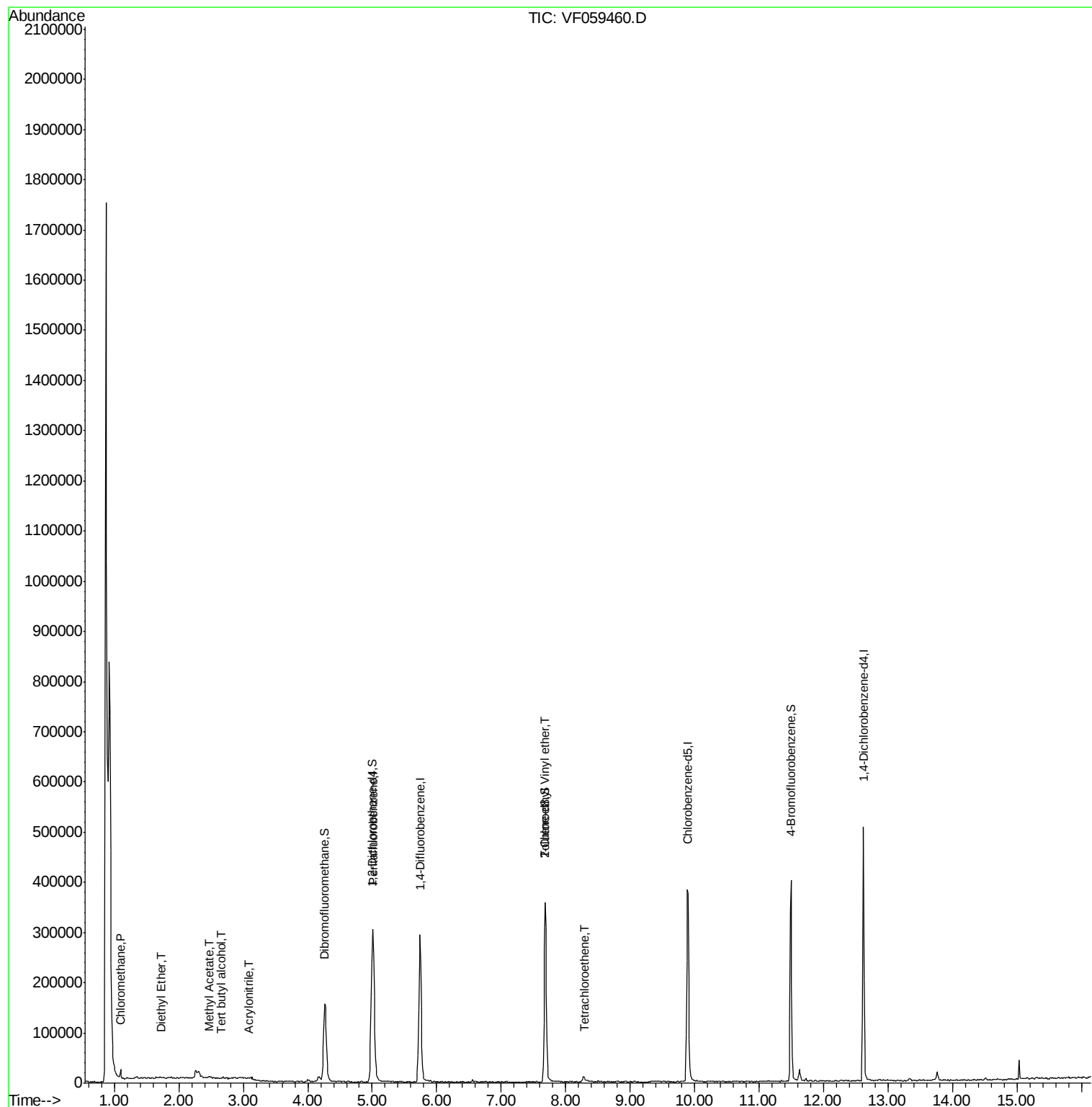
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	1260	1.056	ug/l	93
5) Bromomethane	1.33	94	412	Below Cal	#	4
8) Diethyl Ether	1.73	74	637	1.069	ug/l	99
11) Tert butyl alcohol	2.65	59	291	1.740	ug/l #	52
13) Acrolein	1.94	56	630	Below Cal		97
15) Acrylonitrile	3.07	53	532	1.806	ug/l #	52
16) Acetone	2.32	43	5037	Below Cal	#	88
18) Methyl Acetate	2.47	43	2702	1.248	ug/l #	61
20) Methylene Chloride	2.26	84	5238	Below Cal	#	90
25) 2-Butanone	4.49	43	727	Below Cal	#	59
28) Bromochloromethane	3.91	49	73	Below Cal	#	6
29) Tetrahydrofuran	4.20	42	333	Below Cal	#	36
37) Ethyl Acetate	4.30	43	203	Below Cal	#	26
49) 1,4-Dioxane	6.93	88	59	Below Cal	#	20
58) 2-Chloroethyl Vinyl ether	7.68	63	360	2.360	ug/l	100
59) 2-Hexanone	9.60	43	527	Below Cal	#	30
64) Tetrachloroethene	8.28	164	2782	1.614	ug/l #	78
87) 1,3-Dichlorobenzene	12.54	146	305	Below Cal	#	19

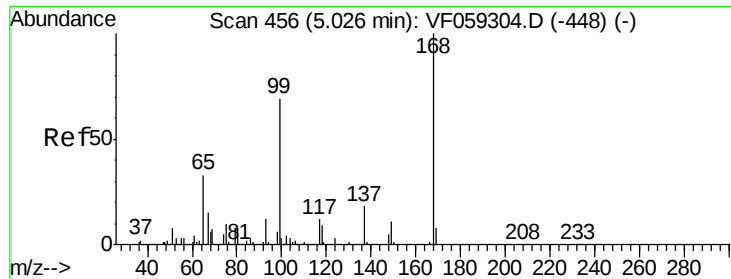
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

Instrument :

MSVOA_F

ClientSampleId :

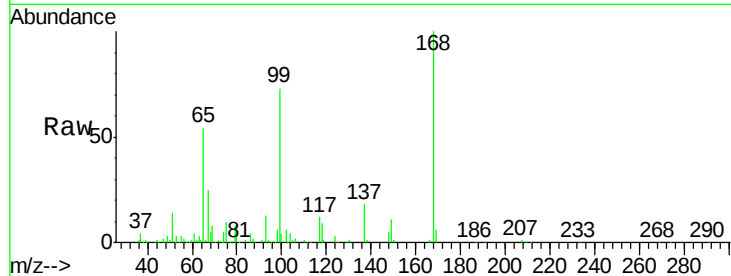
TP-TP-5-S

Tot Ion:168 Resp: 194483

Ion Ratio Lower Upper

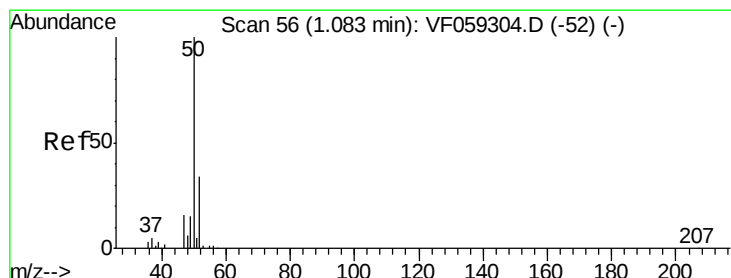
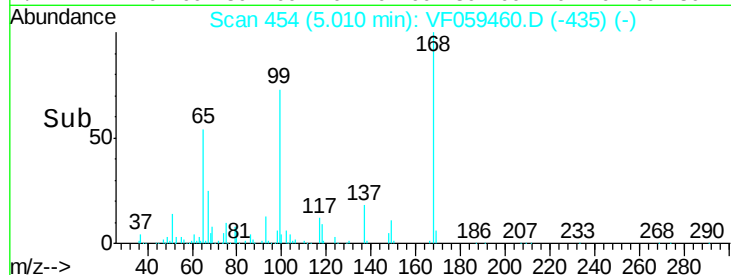
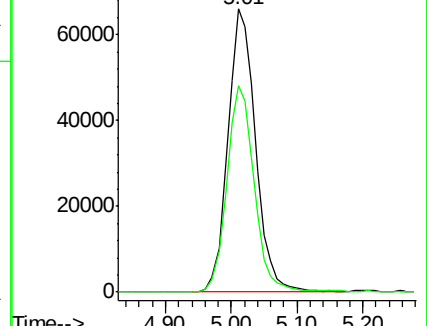
168 100

99 73.0 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.056 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059460.D

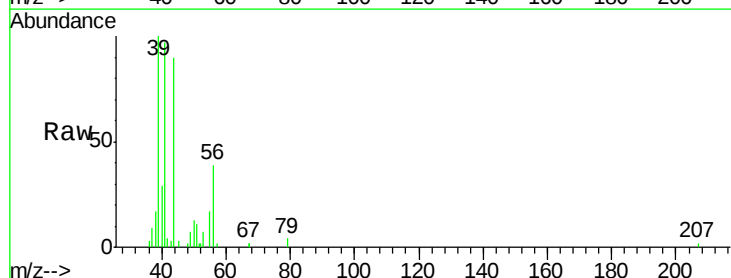
Acq: 6 Jul 2018 20:07

Tgt Ion: 50 Resp: 1260

Ion Ratio Lower Upper

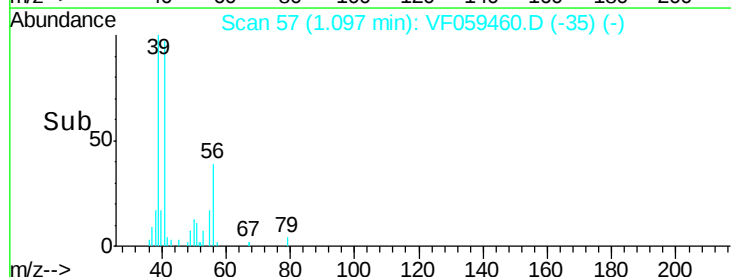
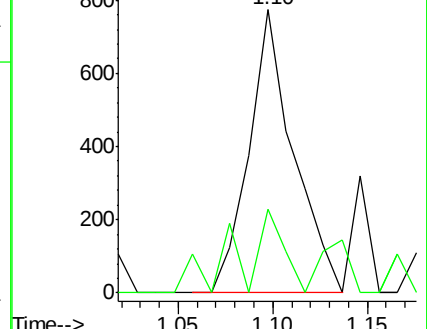
50 100

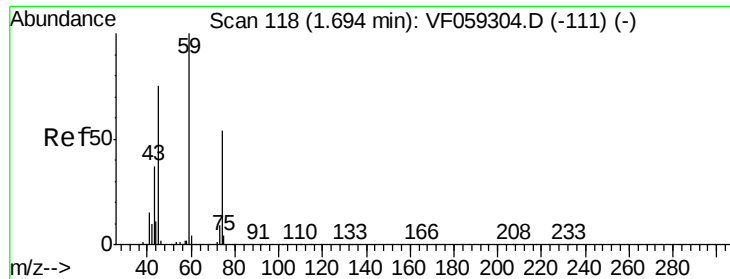
52 29.6 26.7 40.1



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

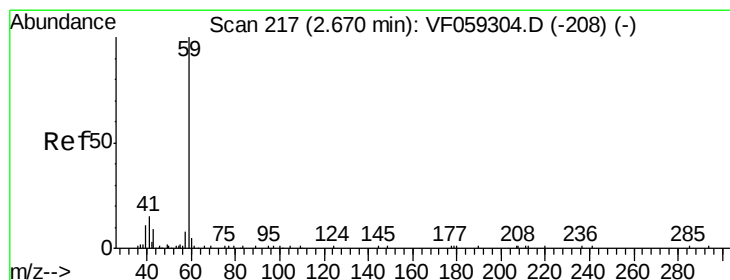
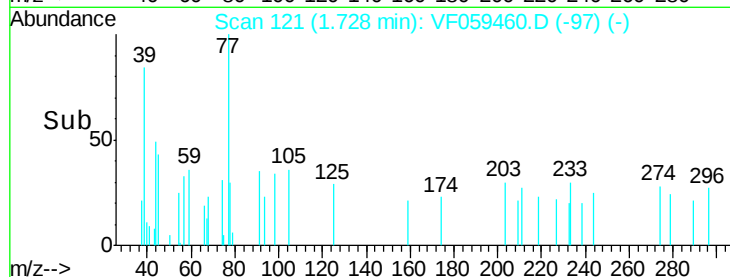
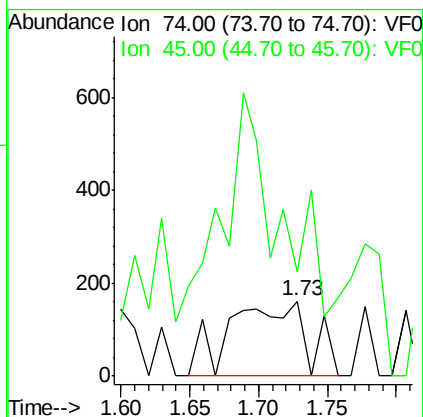
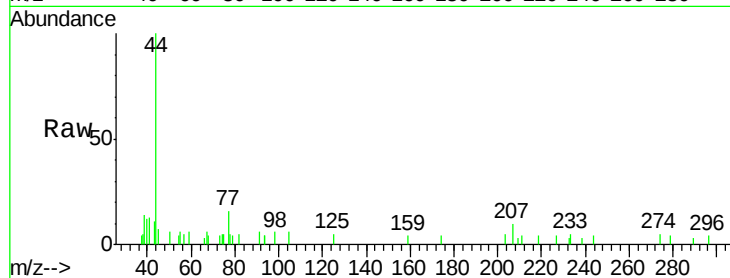




#8
Diethyl Ether
Concen: 1.069 ug/l
RT: 1.73 min Scan# 121
Delta R.T. 0.03 min
Lab File: VF059460.D
Acq: 6 Jul 2018 20:07

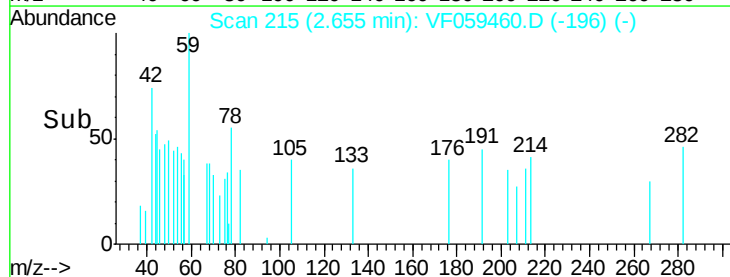
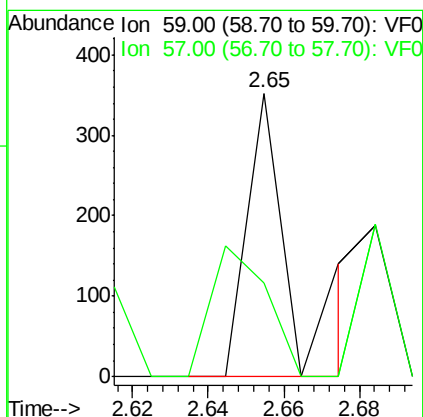
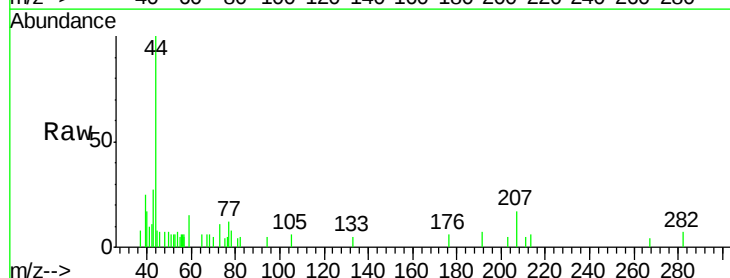
Instrument :
MSVOA_F
ClientSampleId :
TP-TP-5-S

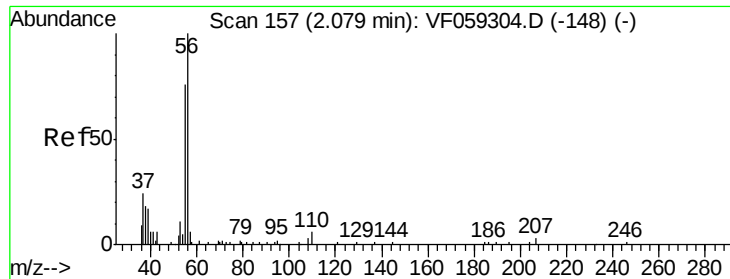
Tot Ion: 74 Resp: 637
Ion Ratio Lower Upper
74 100
45 139.1 70.0 210.0



#11
Tert butyl alcohol
Concen: 1.740 ug/l
RT: 2.65 min Scan# 215
Delta R.T. -0.02 min
Lab File: VF059460.D
Acq: 6 Jul 2018 20:07

Tgt Ion: 59 Resp: 291
Ion Ratio Lower Upper
59 100
57 33.2 11.0 16.4#





#13

Acrolein

Concen: Below Cal

RT: 1.94 min Scan# 143

Delta R.T. -0.13 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

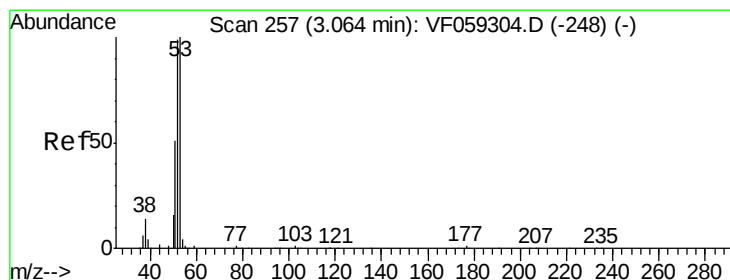
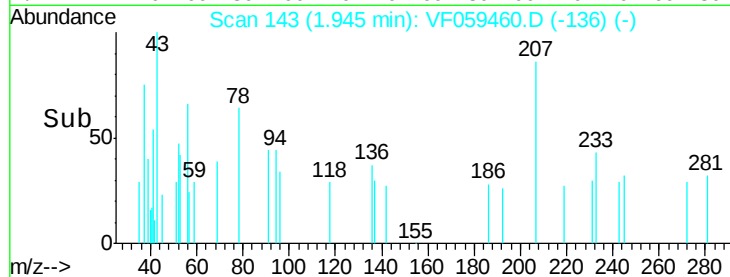
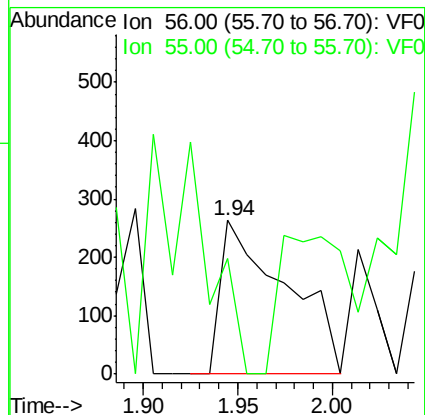
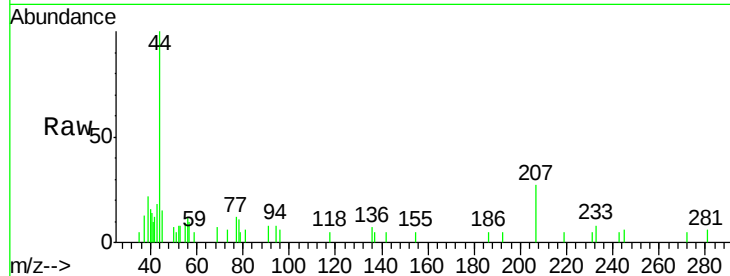
Instrument :
MSVOA_F
ClientSampleId :
TP-TP-5-S

Tot Ion: 56 Resp: 630

Ion Ratio Lower Upper

56 100

55 75.7 62.4 93.6



#15

Acrylonitrile

Concen: 1.806 ug/l

RT: 3.07 min Scan# 257

Delta R.T. 0.00 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

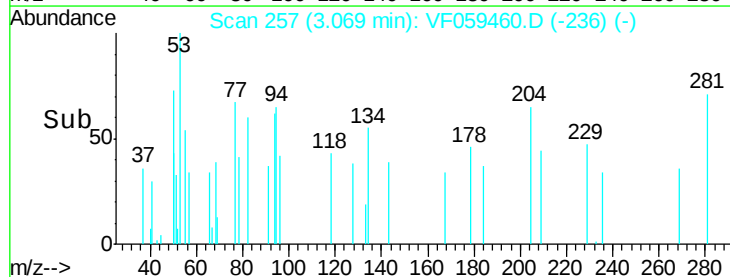
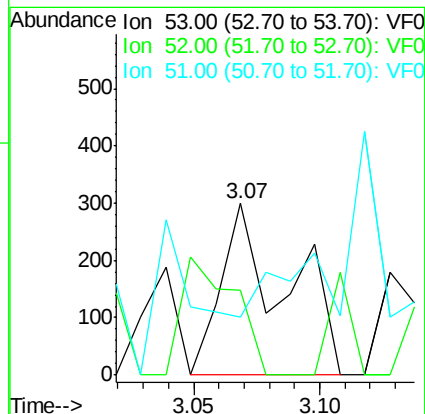
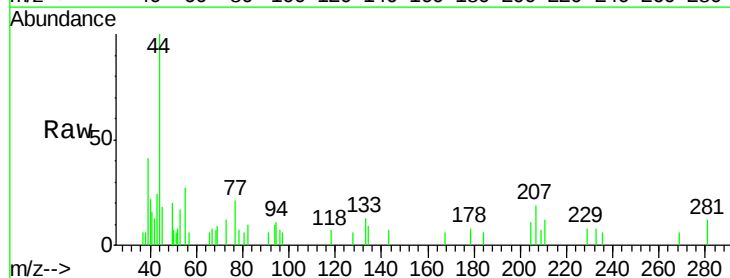
Tgt Ion: 53 Resp: 532

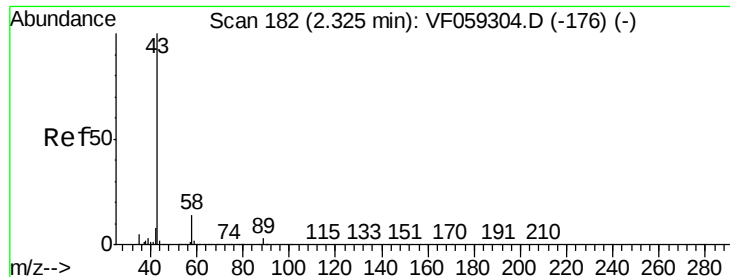
Ion Ratio Lower Upper

53 100

52 49.2 79.2 118.8#

51 82.6 40.9 61.3#





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 181

Delta R.T. -0.01 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

Instrument :

MSVOA_F

ClientSampleId :

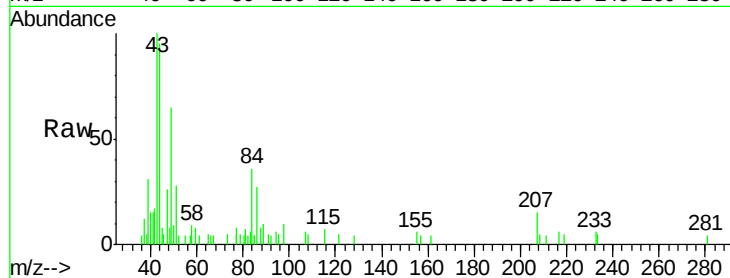
TP-TP-5-S

Tot Ion: 43 Resp: 5037

Ion Ratio Lower Upper

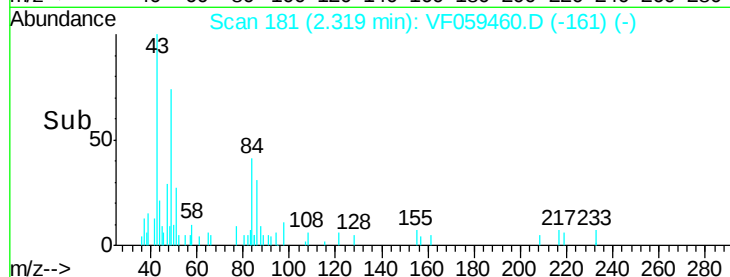
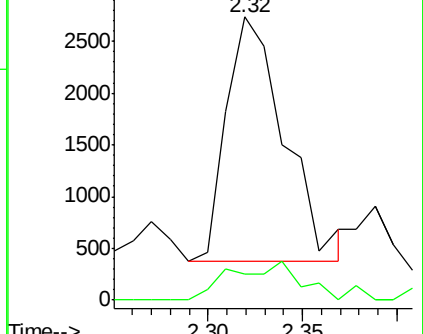
43 100

58 9.3 11.4 17.0#

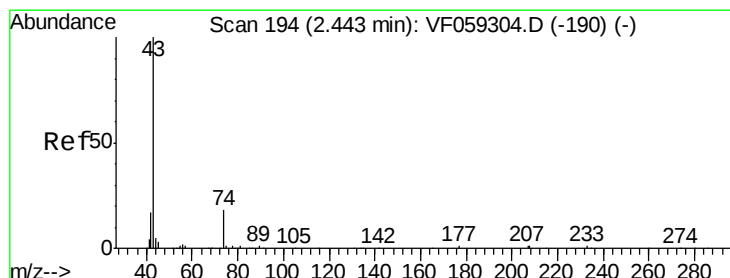


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#18

Methyl Acetate

Concen: 1.248 ug/l

RT: 2.47 min Scan# 196

Delta R.T. 0.02 min

Lab File: VF059460.D

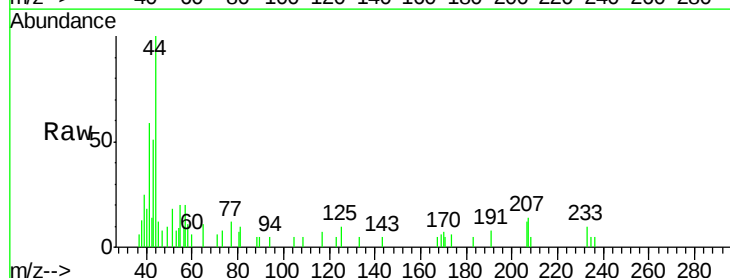
Acq: 6 Jul 2018 20:07

Tgt Ion: 43 Resp: 2702

Ion Ratio Lower Upper

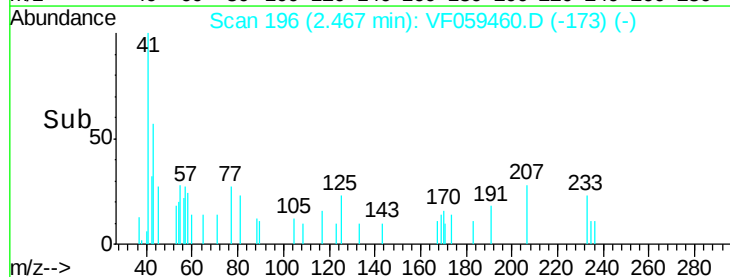
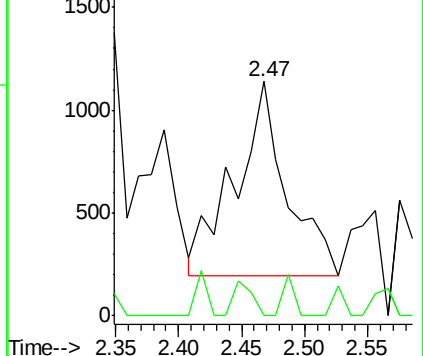
43 100

74 0.0 13.3 19.9#

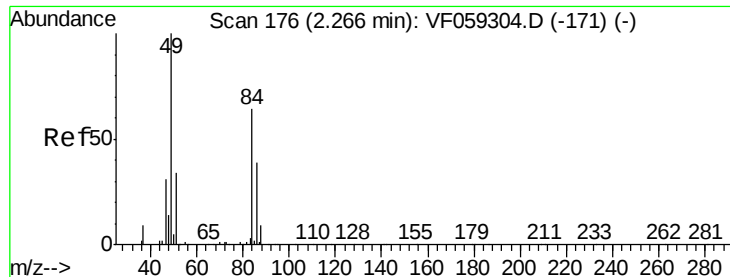


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



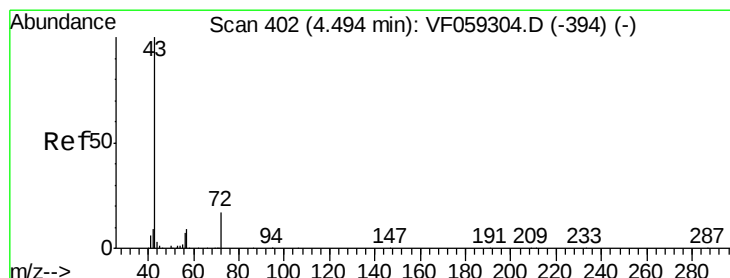
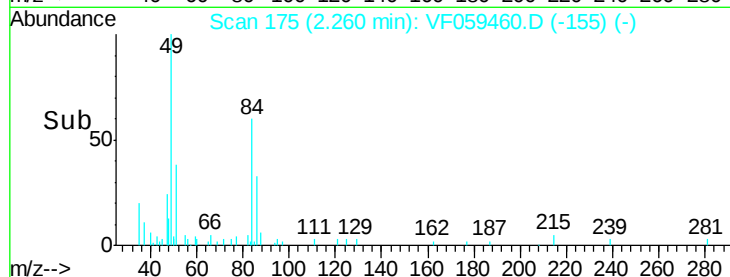
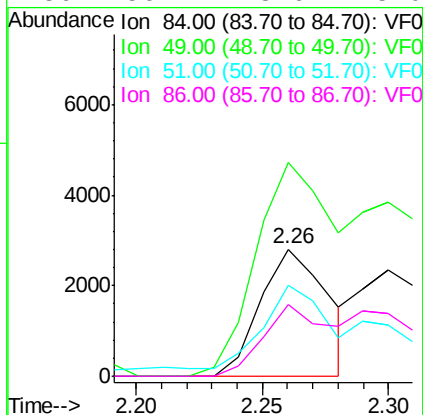
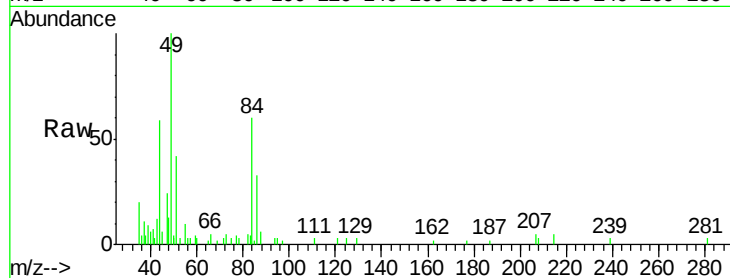
Time-->



#20
Methvlene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 175
Delta R.T. -0.00 min
Lab File: VF059460.D
Acq: 6 Jul 2018 20:07

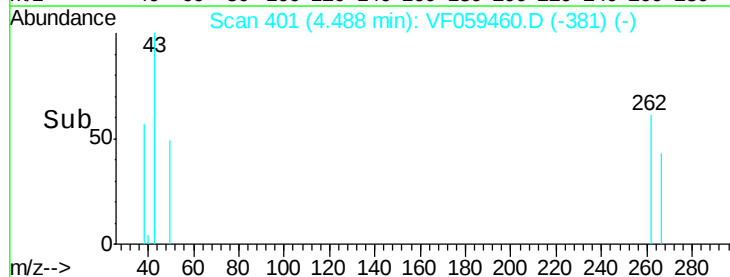
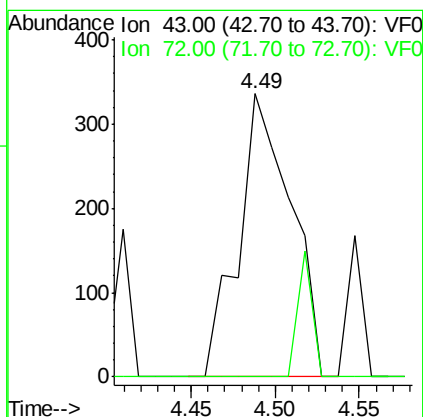
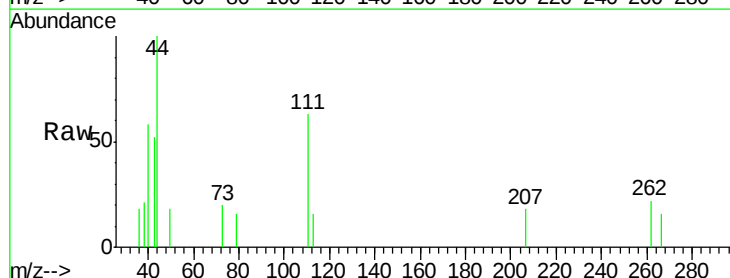
Instrument :
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TP-TP-5-S

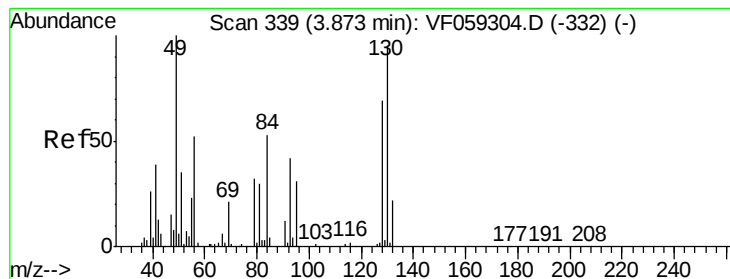
Tot Ion: 84 Resp: 5238
Ion Ratio Lower Upper
84 100
49 167.7 126.5 189.7
51 71.2 42.9 64.3#
86 56.1 48.6 73.0



#25
2-Butanone
Concen: Below Cal
RT: 4.49 min Scan# 401
Delta R.T. -0.00 min
Lab File: VF059460.D
Acq: 6 Jul 2018 20:07

Tgt Ion: 43 Resp: 727
Ion Ratio Lower Upper
43 100
72 0.0 14.4 21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.91 min Scan# 342

Delta R.T. 0.03 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

Instrument :
MSVOA_F
ClientSampleId :
TP-TP-5-S

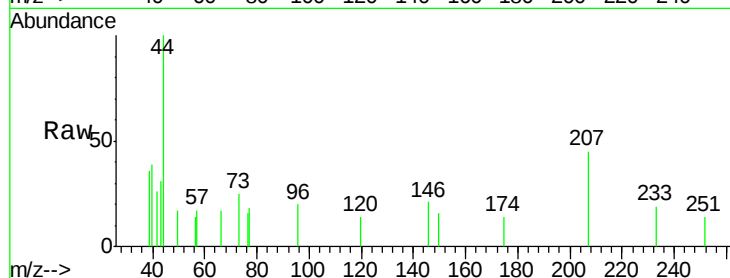
Tot Ion: 49 Resp: 73

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

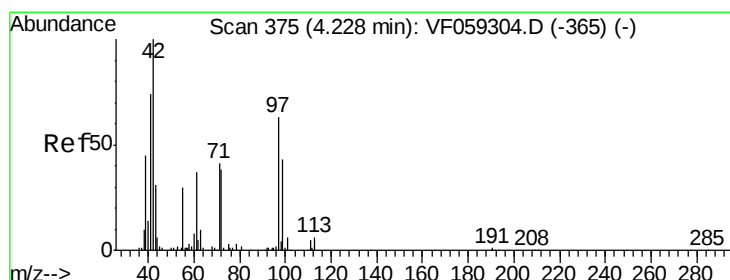
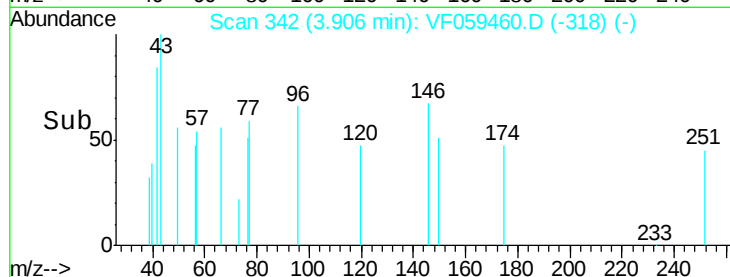
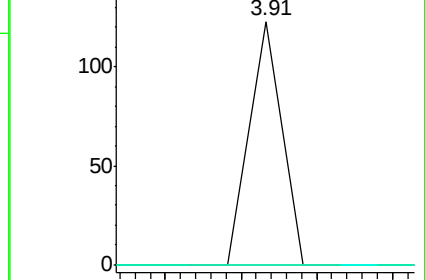
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.20 min Scan# 372

Delta R.T. -0.02 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

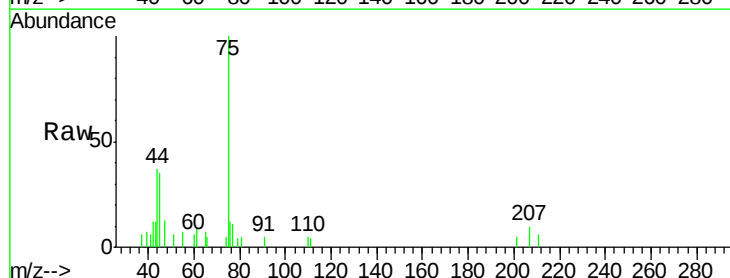
Tgt Ion: 42 Resp: 333

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

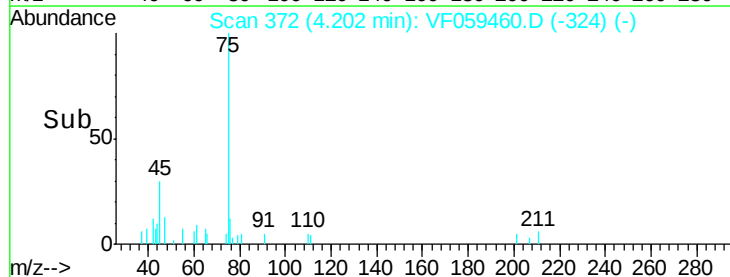
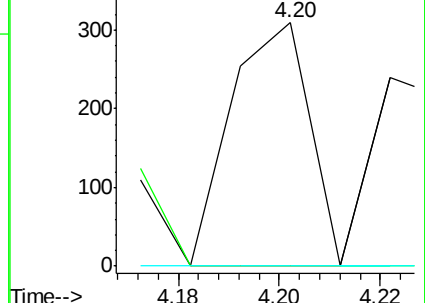
71 0.0 32.5 48.7#

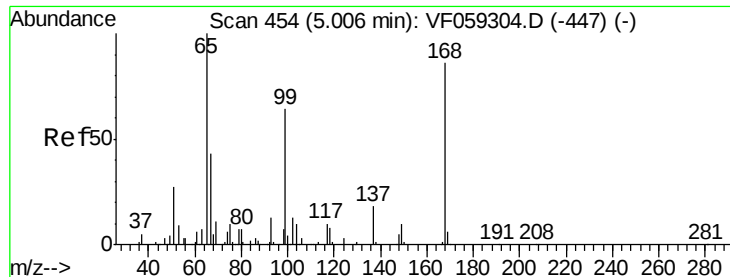


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 63.415 ug/l

RT: 4.99 min Scan# 452

Delta R.T. -0.02 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

Instrument :

MSVOA_F

ClientSampleId :

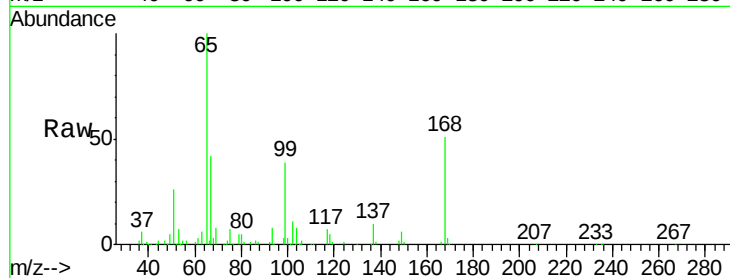
TP-TP-5-S

Tot Ion: 65 Resp: 159343

Ion Ratio Lower Upper

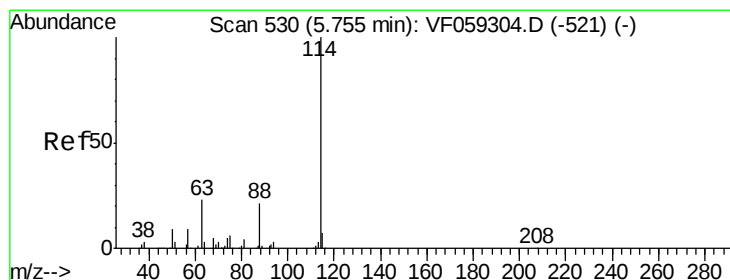
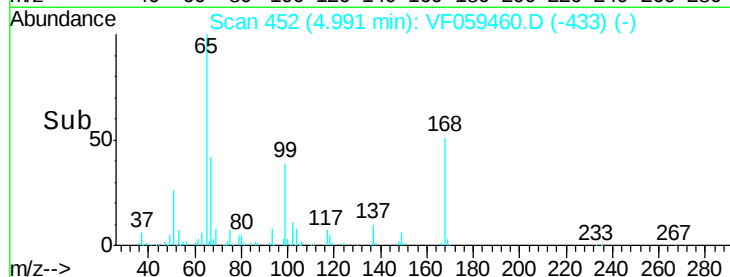
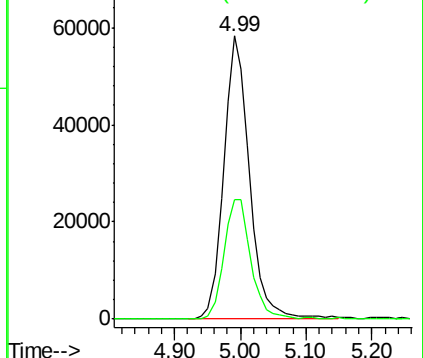
65 100

67 42.2 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.74 min Scan# 528

Delta R.T. -0.02 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

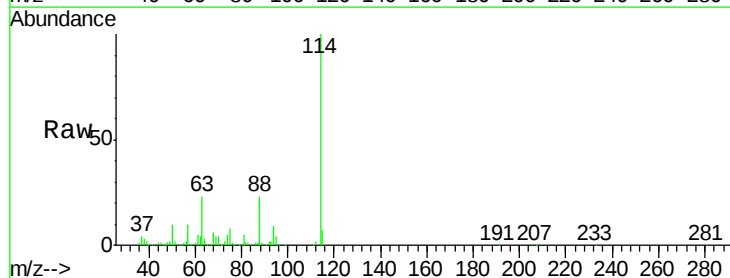
Tgt Ion: 114 Resp: 291711

Ion Ratio Lower Upper

114 100

63 23.3 0.0 45.8

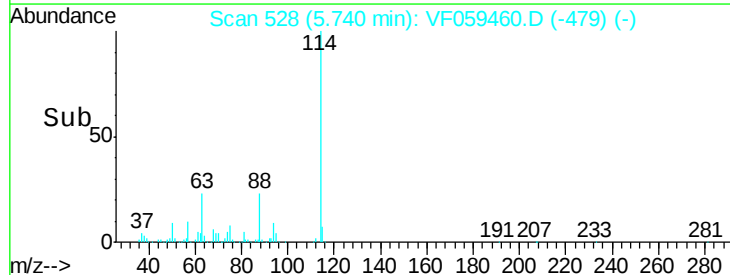
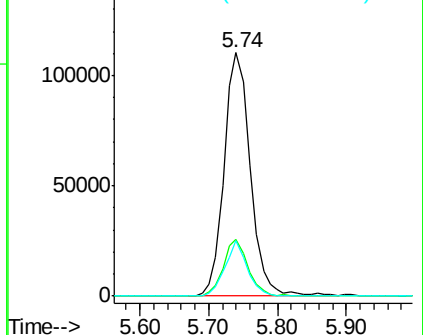
88 22.7 0.0 41.2

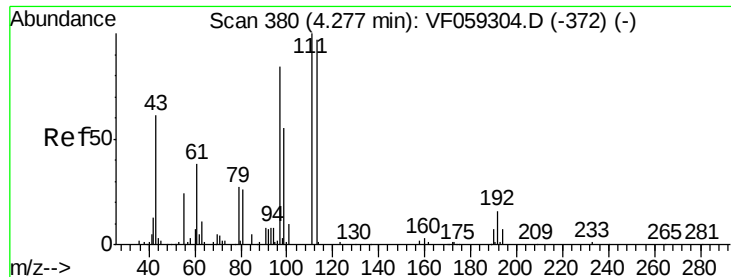


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 64.657 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

Instrument :

MSVOA_F

ClientSampleId :

TP-TP-5-S

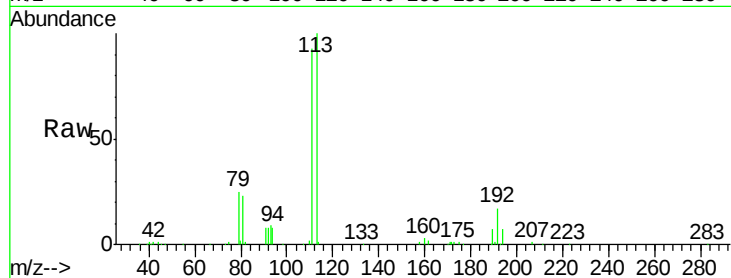
Tot Ion:113 Resp: 137813

Ion Ratio Lower Upper

113 100

111 92.9 82.1 123.1

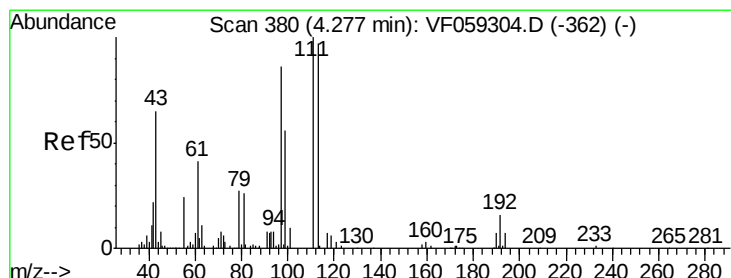
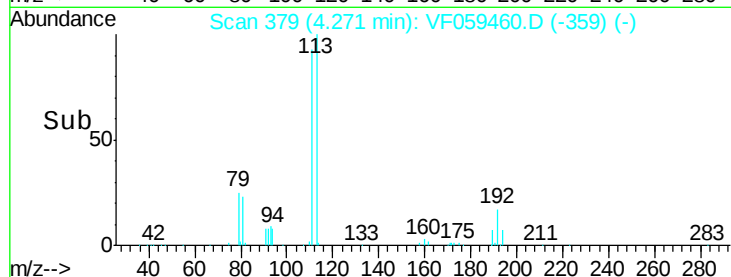
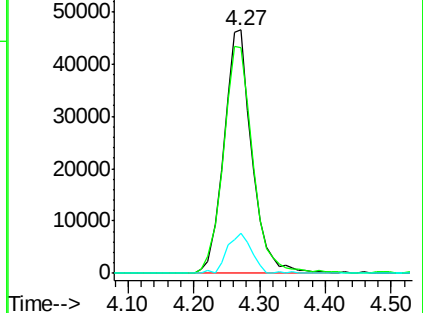
192 16.6 13.0 19.6



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: 4.30 min Scan# 382

Delta R.T. 0.02 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

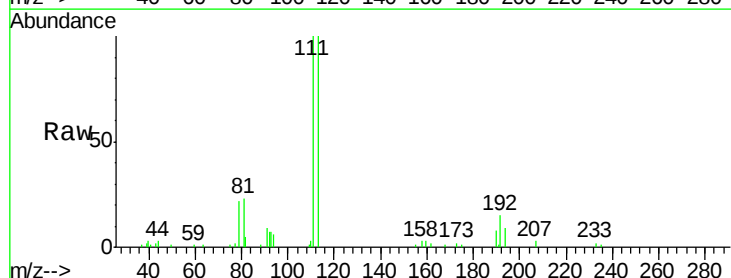
Tgt Ion: 43 Resp: 203

Ion Ratio Lower Upper

43 100

61 0.0 50.1 75.1#

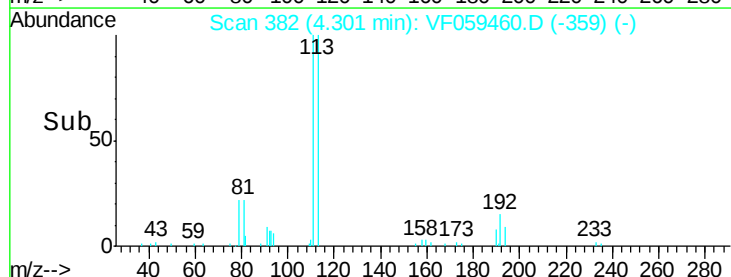
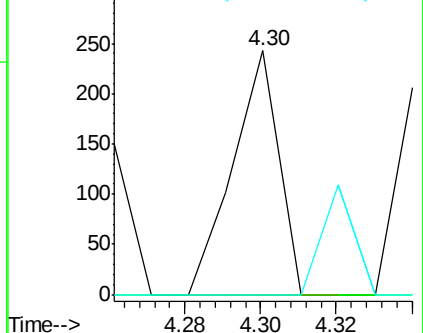
70 0.0 6.2 9.4#

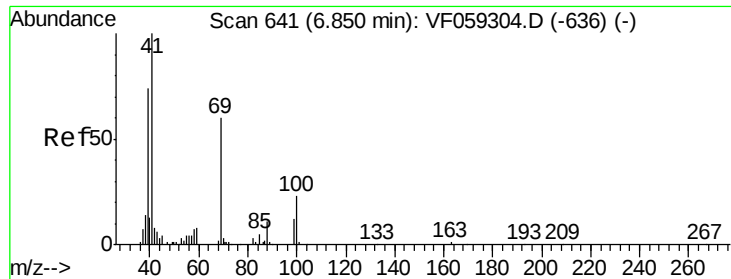


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

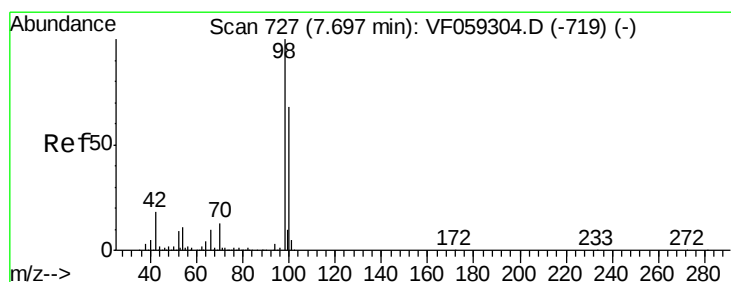
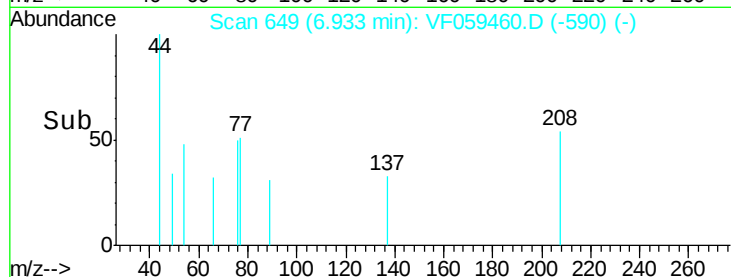
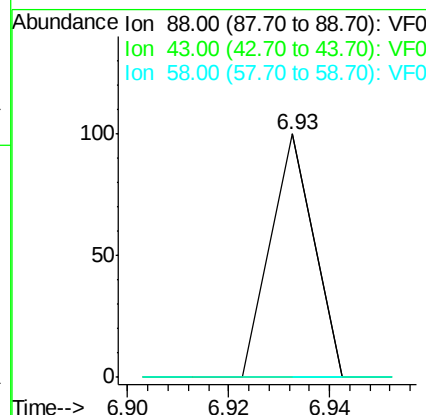
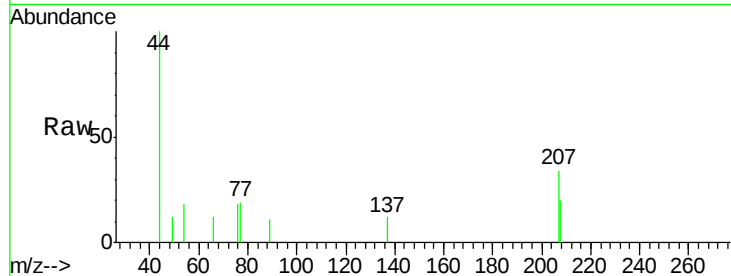




#49
 1,4-Dioxane
 Concen: Below Cal
 RT: 6.93 min Scan# 649
 Delta R.T. 0.08 min
 Lab File: VF059460.D
 Acq: 6 Jul 2018 20:07

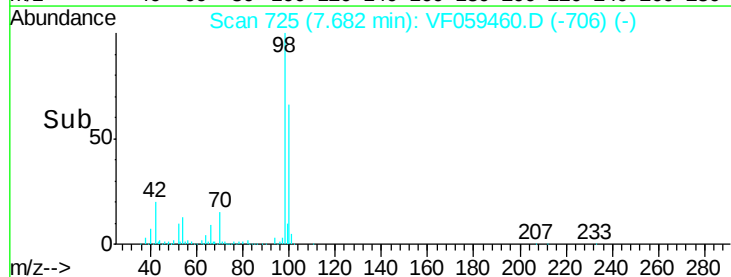
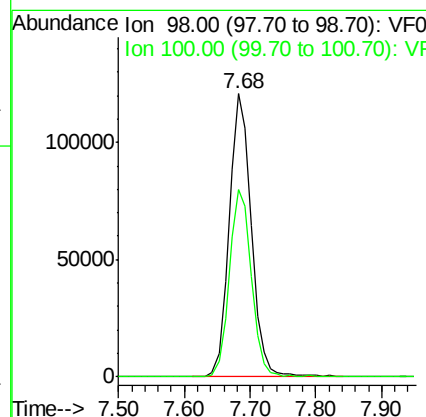
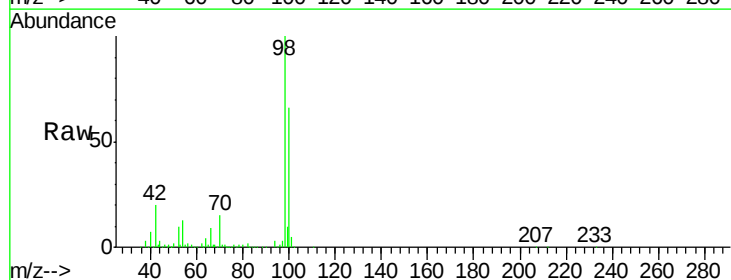
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-TP-5-S

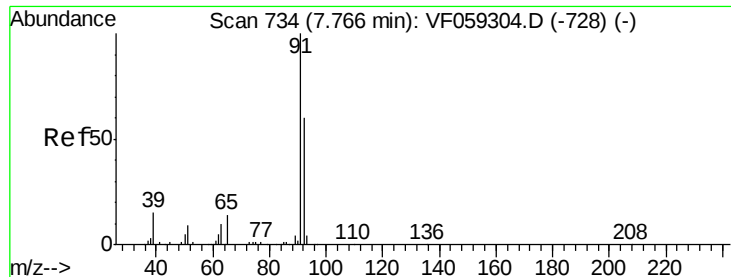
Tot Ion: 88 Resp: 59
 Ion Ratio Lower Upper
 88 100
 43 0.0 50.6 75.8#
 58 0.0 46.6 69.8#



#50
 Toluene-d8
 Concen: 53.931 ug/l
 RT: 7.68 min Scan# 725
 Delta R.T. -0.02 min
 Lab File: VF059460.D
 Acq: 6 Jul 2018 20:07

Tgt Ion: 98 Resp: 284607
 Ion Ratio Lower Upper
 98 100
 100 66.3 54.6 82.0





#58

2-Chloroethyl Vinyl ether

Concen: 2.360 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.08 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

Instrument :

MSVOA_F

ClientSampled :

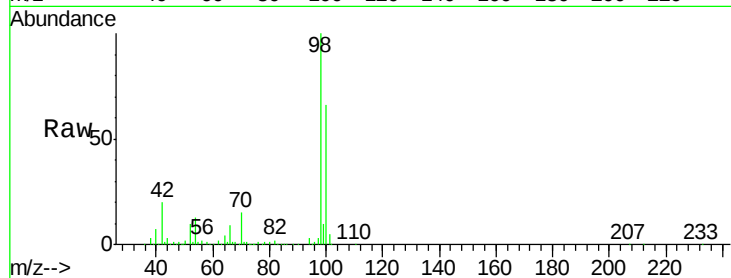
TP-TP-5-S

Tot Ion: 63 Resp: 360

Ion Ratio Lower Upper

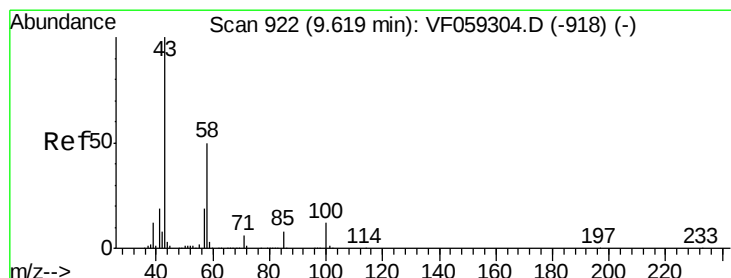
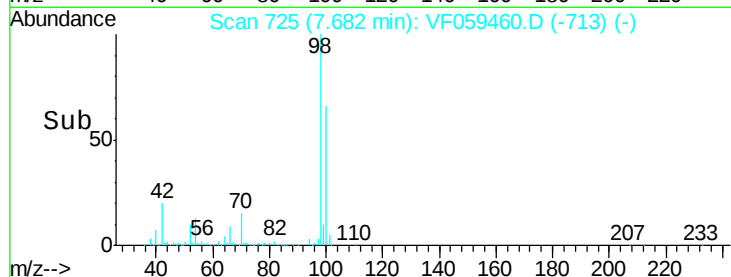
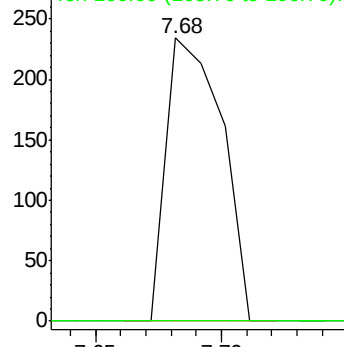
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: Below Cal

RT: 9.60 min Scan# 920

Delta R.T. -0.02 min

Lab File: VF059460.D

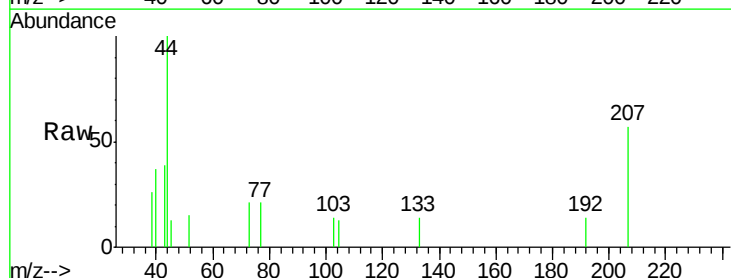
Acq: 6 Jul 2018 20:07

Tgt Ion: 43 Resp: 527

Ion Ratio Lower Upper

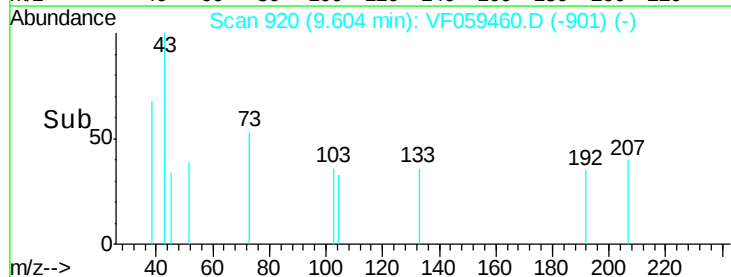
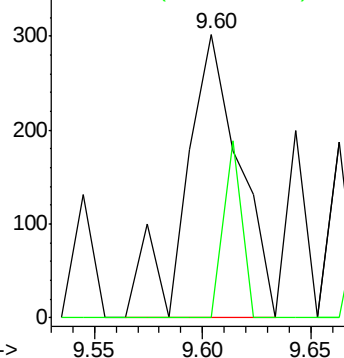
43 100

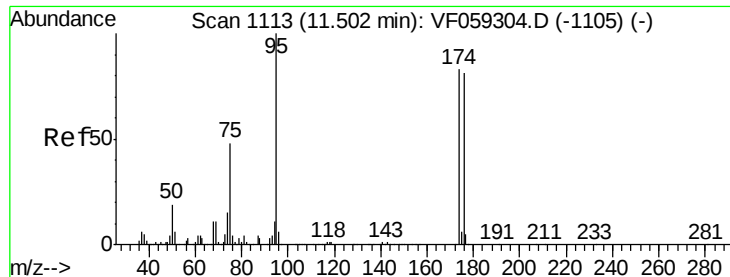
58 0.0 23.3 69.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 45.826 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

Instrument :

MSVOA_F

ClientSampled :

TP-TP-5-S

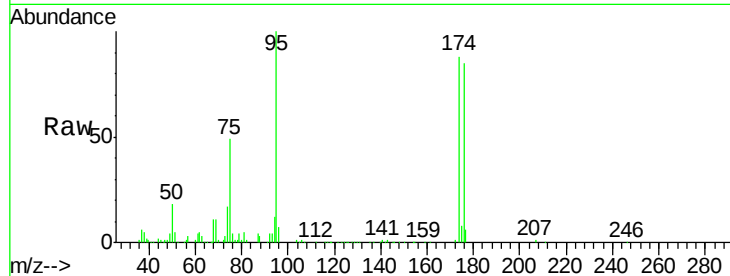
Tot Ion: 95 Resp: 136417

Ion Ratio Lower Upper

95 100

174 88.5 0.0 165.2

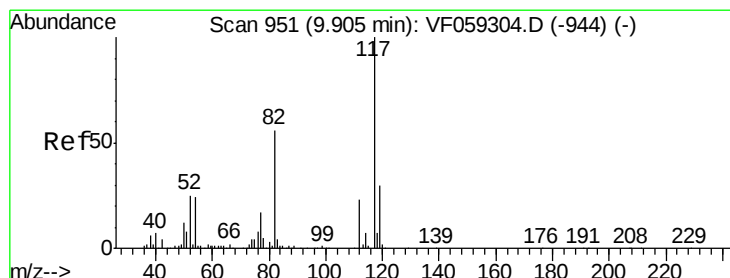
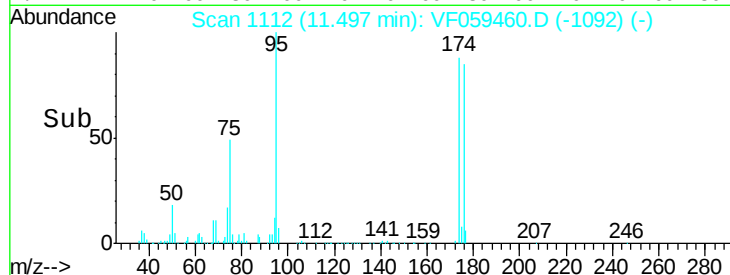
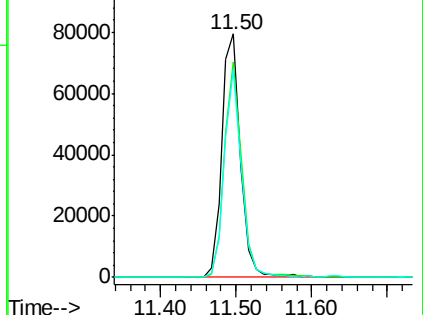
176 85.2 0.0 161.0



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: 50.000 ug/l

RT: 9.90 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

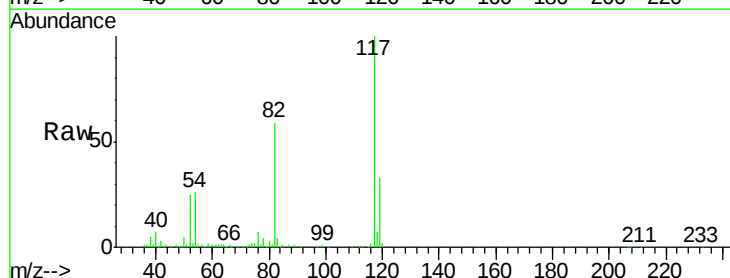
Tgt Ion: 117 Resp: 265689

Ion Ratio Lower Upper

117 100

82 58.9 44.6 66.8

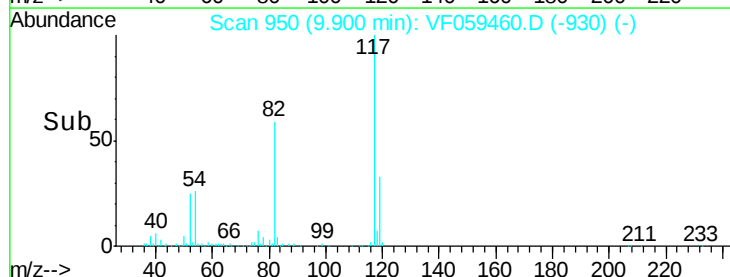
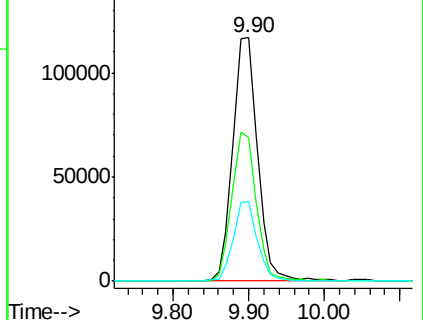
119 32.9 24.1 36.1

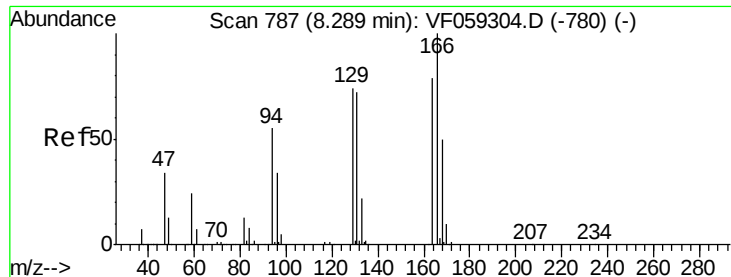


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#64

Tetrachloroethene

Concen: 1.614 ug/l

RT: 8.28 min Scan# 786

Delta R.T. -0.01 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

Instrument :

MSVOA_F

ClientSampled :

TP-TP-5-S

Tot Ion:164 Resp: 2782

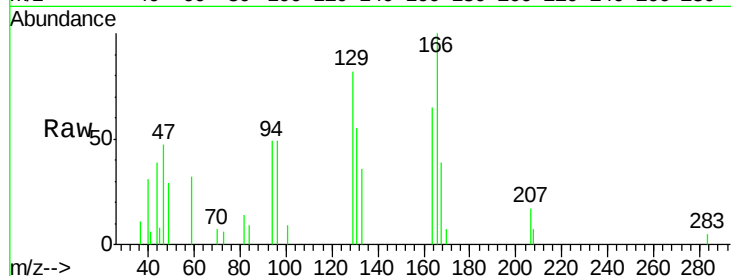
Ion Ratio Lower Upper

164 100

166 154.2 101.1 151.7#

129 126.6 75.0 112.4#

131 85.0 73.3 109.9

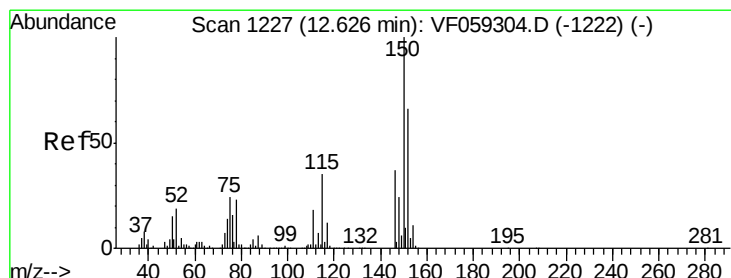
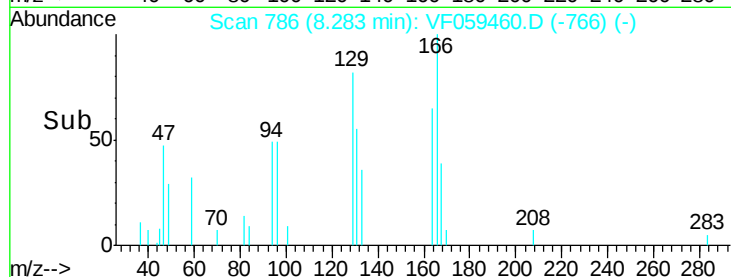
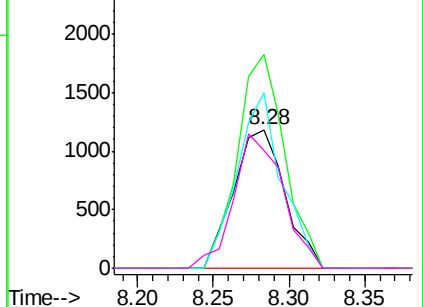


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF059460.D

Acq: 6 Jul 2018 20:07

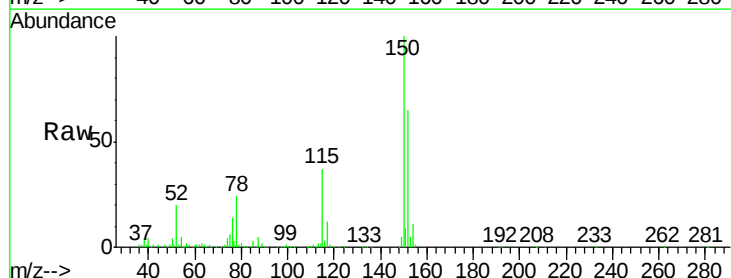
Tgt Ion:152 Resp: 133048

Ion Ratio Lower Upper

152 100

115 56.1 27.1 81.3

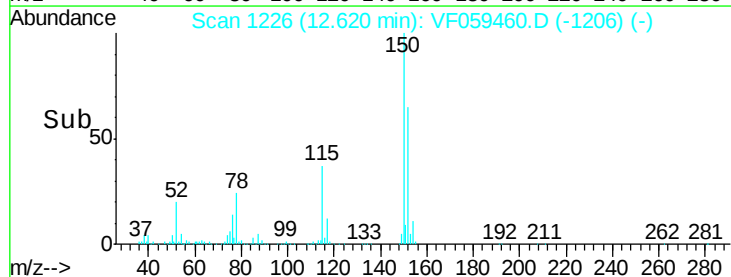
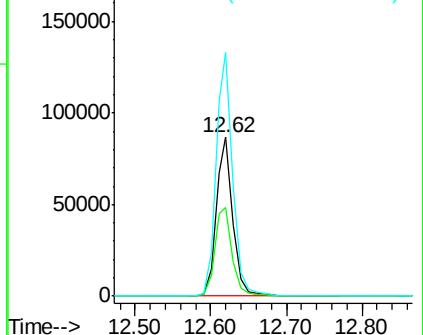
150 153.3 0.0 305.2

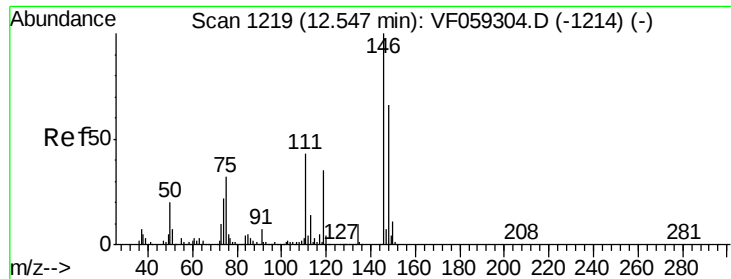


Abundance Ion 152.00 (151.70 to 152.70): V

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: VF059460.D

Acq: 6 Jul 2018 20:07

Instrument :

MSVOA_F

ClientSampleId :

TP-TP-5-S

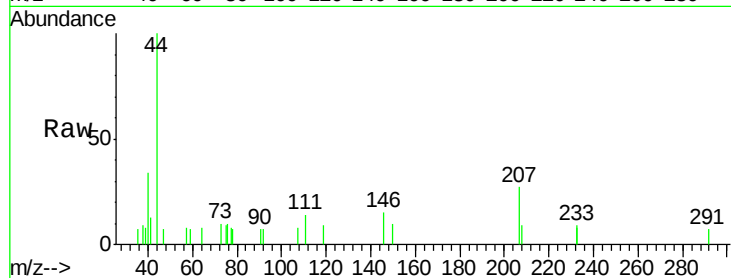
Tot Ion:146 Resp: 305

Ion Ratio Lower Upper

146 100

111 93.0 21.4 64.2#

148 0.0 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

