

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059554.D
 Acq On : 19 Jul 2018 12:03
 Operator : VA/AP
 Sample : J4030-01
 Misc : 5.86g/5mL/MSVOA F/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB1-10

Quant Time: Jul 19 14:42:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-5.05
34) 1,4-Difluorobenzene	5.40	114	64	50.00	ug/l	-0.38
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.93
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.64

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.06	65	72	0.00	ug/l	0.03
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	10.81	95	61	83.28	ug/l	-0.71
Spiked Amount	50.000		Recovery	=	166.56%	

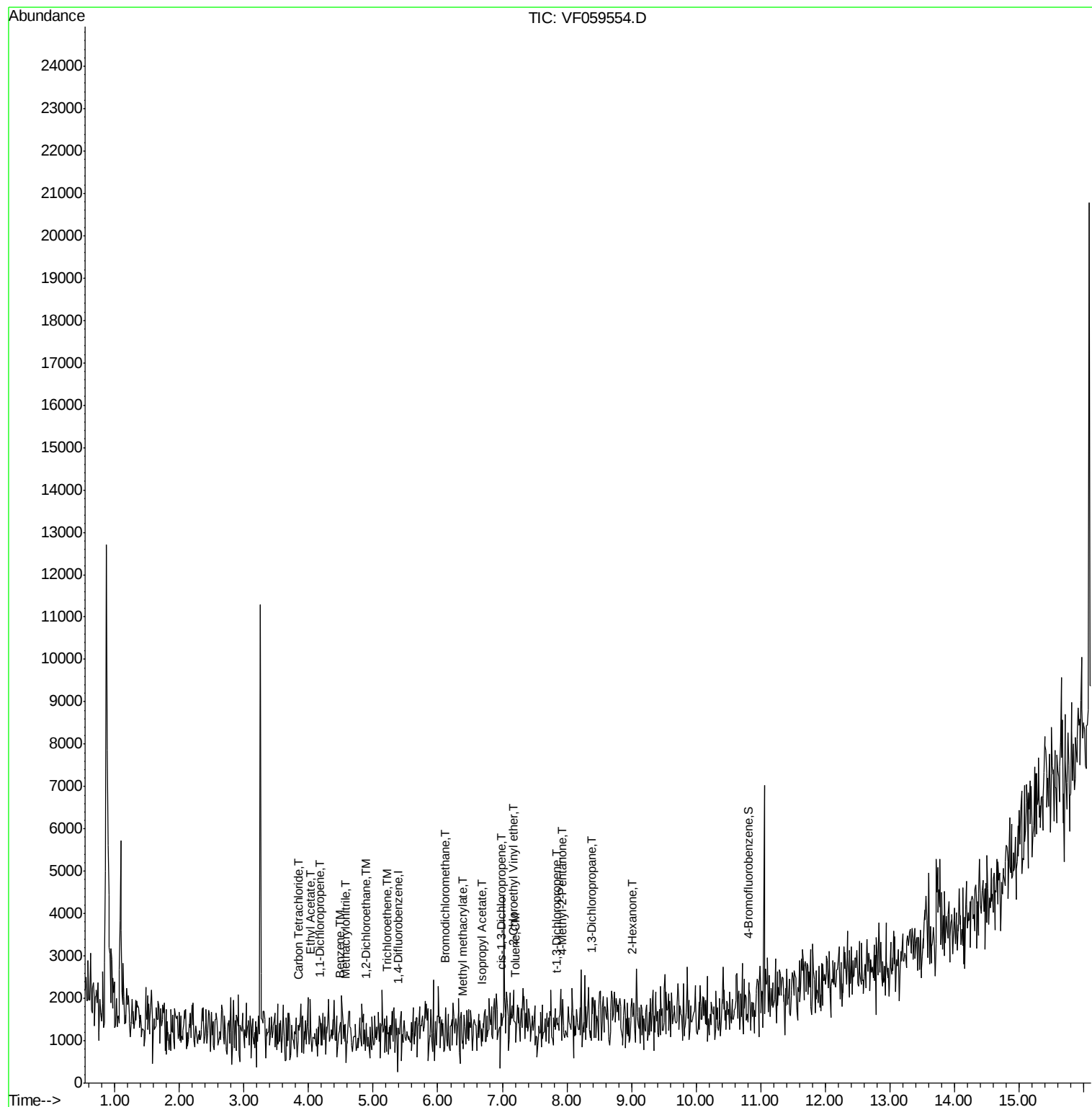
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
36) 1,1-Dichloropropene	4.19	75	78	121.76	ug/l #	11
37) Ethyl Acetate	4.03	43	63	199.78	ug/l #	41
38) Carbon Tetrachloride	3.83	117	87	118.51	ug/l #	12
40) Benzene	4.49	78	89	71.61	ug/l #	1
41) Methacrylonitrile	4.56	41	283	1540.51	ug/l #	27
42) 1,2-Dichloroethane	4.90	62	72	88.20	ug/l	85
43) Isopropyl Acetate	6.68	43	84	182.48	ug/l #	51
44) Trichloroethene	5.21	130	89	193.47	ug/l	1
47) Bromodichloromethane	6.11	83	62	76.67	ug/l #	25
48) Methyl methacrylate	6.39	41	64	194.68	ug/l #	41
49) 1,4-Dioxane	6.58	88	77	Below Cal	#	15
51) 4-Methyl-2-Pentanone	7.92	43	140	429.06	ug/l #	40
52) Toluene	7.19	92	70	77.66	ug/l #	1
53) t-1,3-Dichloropropene	7.84	75	85	114.28	ug/l #	43
54) cis-1,3-Dichloropropene	7.00	75	131	176.88	ug/l #	1
57) 1,3-Dichloropropane	8.39	76	65	105.26	ug/l #	42
58) 2-Chloroethyl Vinyl ether	7.17	63	70	1830.75	ug/l	100
59) 2-Hexanone	9.01	43	63	255.47	ug/l #	30

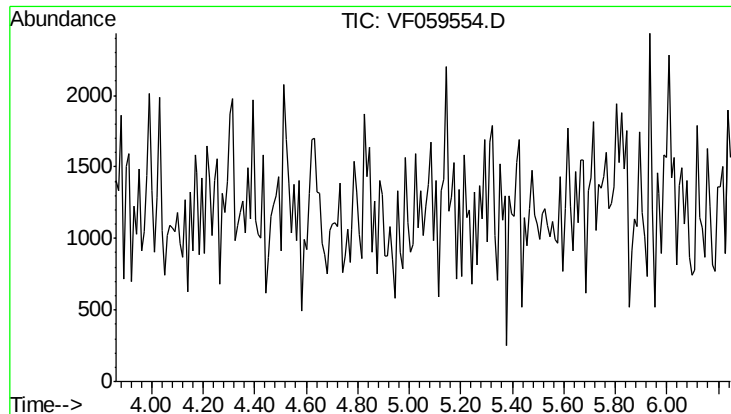
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.00 ug/l

Expected RT: 5.05 min

Lab File: VF059554.D

Acq: 19 Jul 2018 12:03

Tot Ion: 168

Sig Exp Ratio

168 100

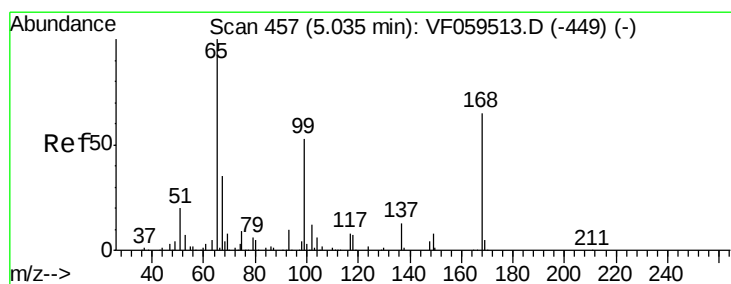
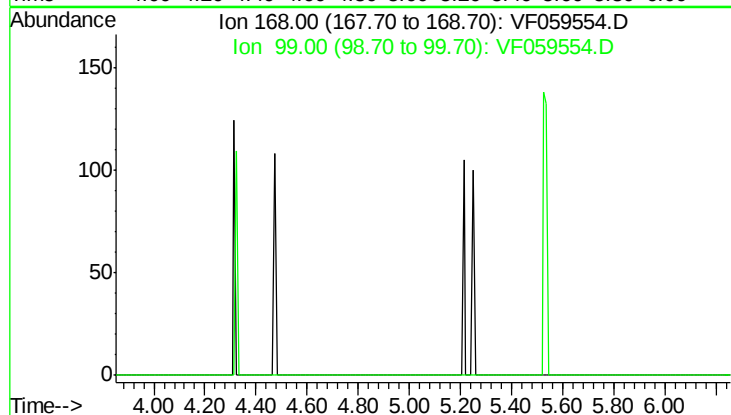
99 72.0

Instrument :

MSVOA_F

ClientSampleId :

SB1-10



#33

1,2-Dichloroethane-d4

Concen: 0.00 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.03 min

Lab File: VF059554.D

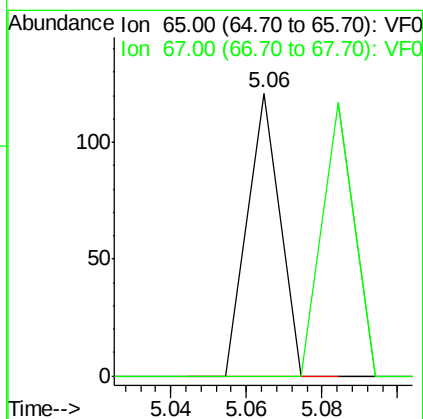
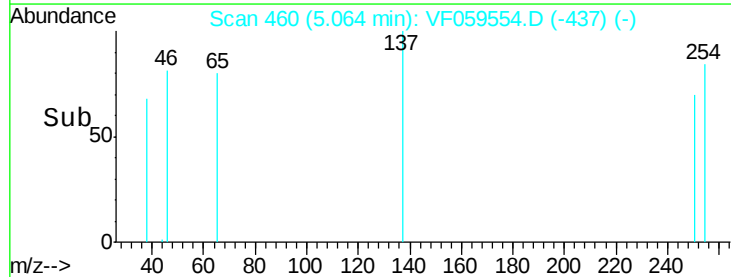
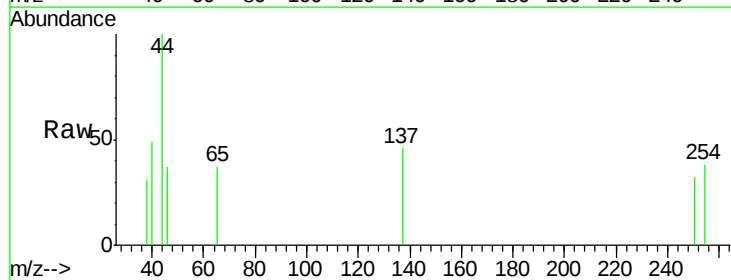
Acq: 19 Jul 2018 12:03

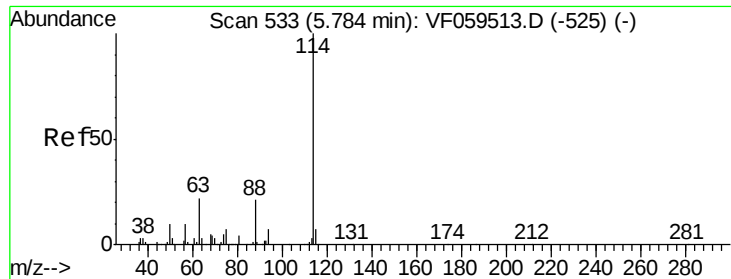
Tgt Ion: 65 Resp: 72

Ion Ratio Lower Upper

65 100

67 0.0 0.0 91.2

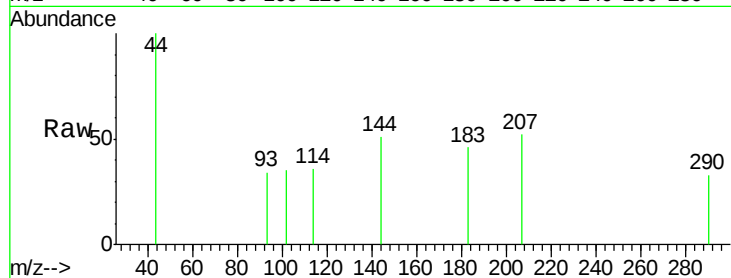




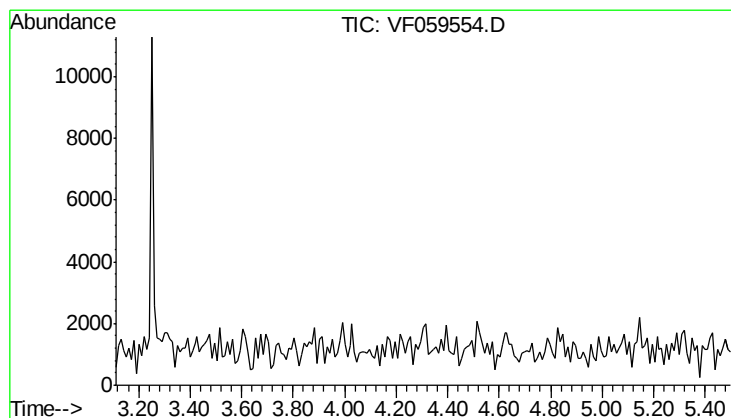
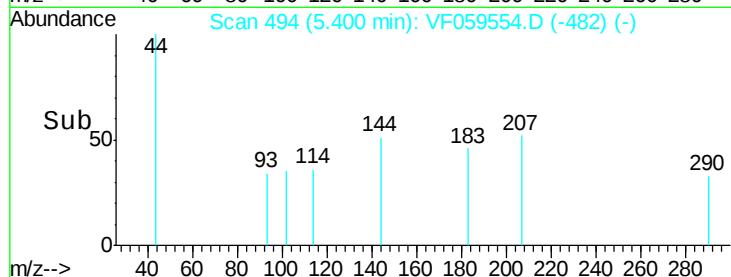
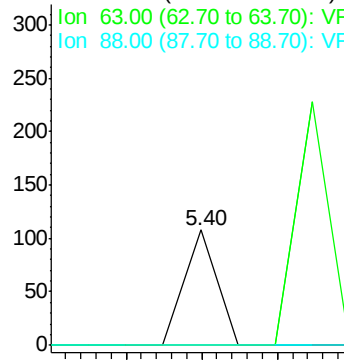
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.40 min Scan# 494
 Delta R.T. -0.38 min
 Lab File: VF059554.D
 Acq: 19 Jul 2018 12:03

Instrument :
 MSVOA_F
 ClientSampleId :
 SB1-10

Tot Ion:114 Resp: 64
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 44.8
 88 0.0 0.0 42.6



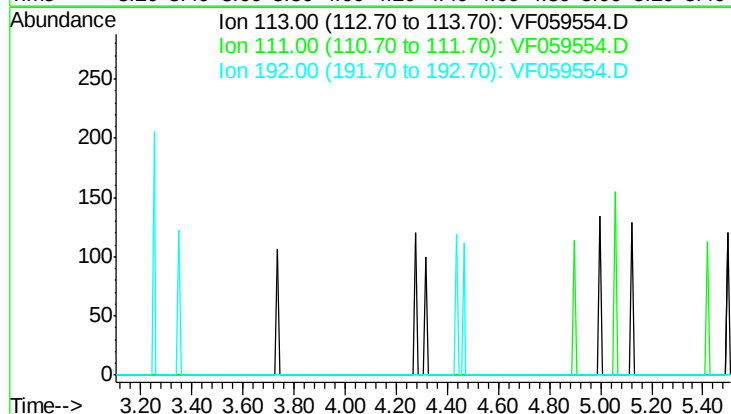
Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

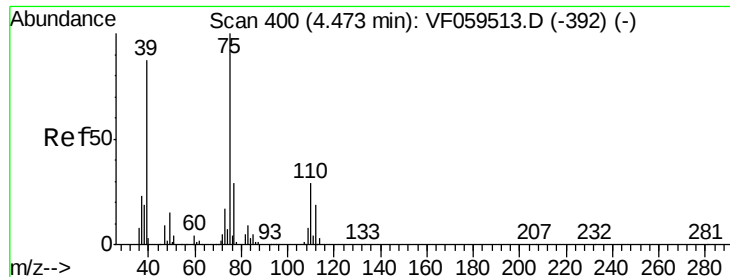


#35
 Dibromofluoromethane
 Concen: 0.00 ug/l
 Expected RT: 4.31 min

Lab File: VF059554.D
 Acq: 19 Jul 2018 12:03

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 100.4
 192 16.4





#36

1,1-Dichloropropene

Concen: 121.76 ug/l

RT: 4.19 min Scan# 371

Delta R.T. -0.29 min

Lab File: VF059554.D

Acq: 19 Jul 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

SB1-10

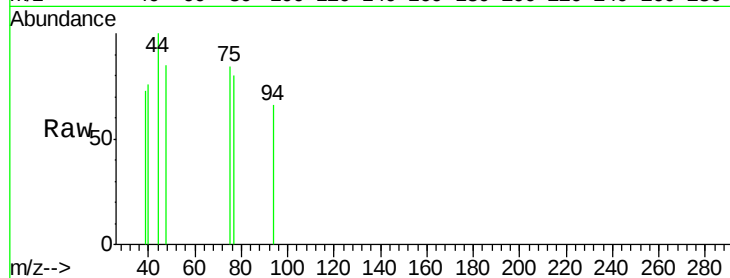
Tot Ion: 75 Resp: 78

Ion Ratio Lower Upper

75 100

110 0.0 14.6 43.8#

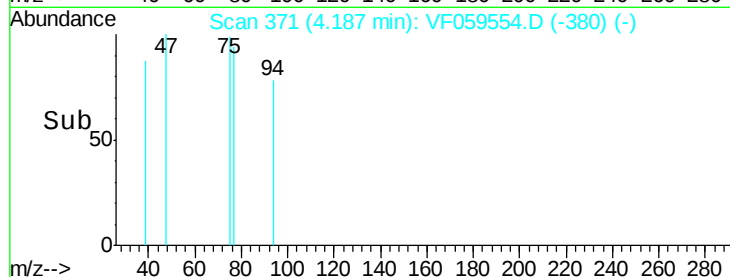
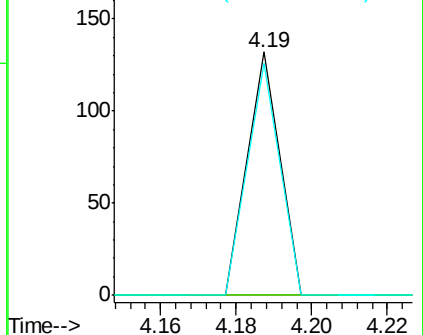
77 95.5 23.7 35.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 199.78 ug/l

RT: 4.03 min Scan# 355

Delta R.T. -0.29 min

Lab File: VF059554.D

Acq: 19 Jul 2018 12:03

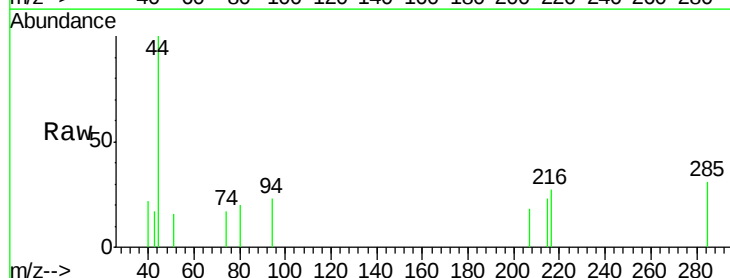
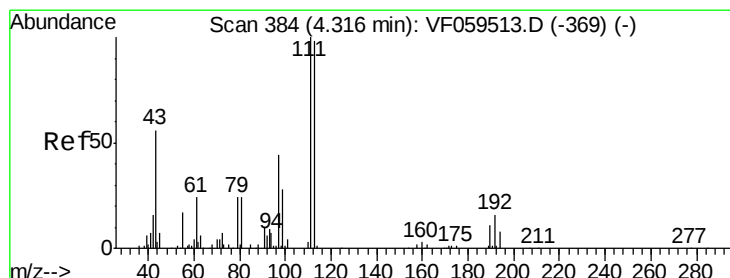
Tgt Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

61 0.0 33.7 50.5#

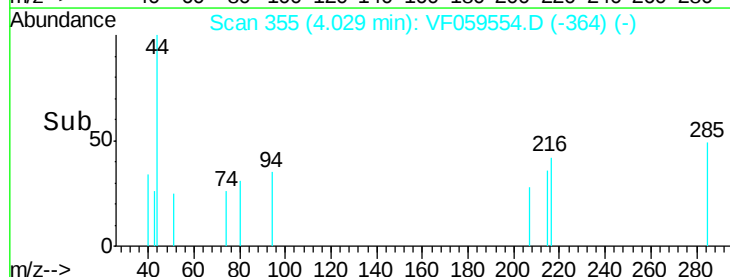
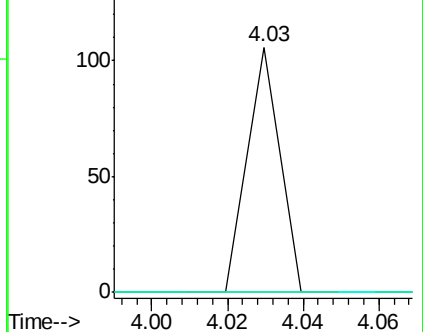
70 0.0 7.4 11.0#

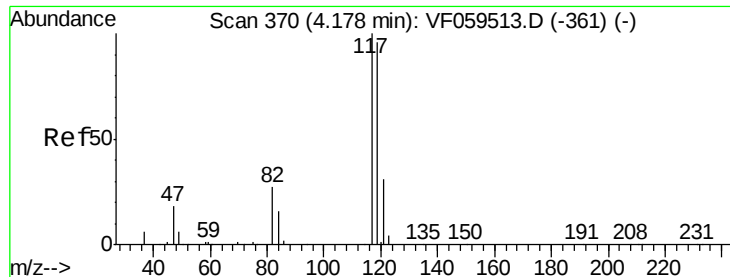


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

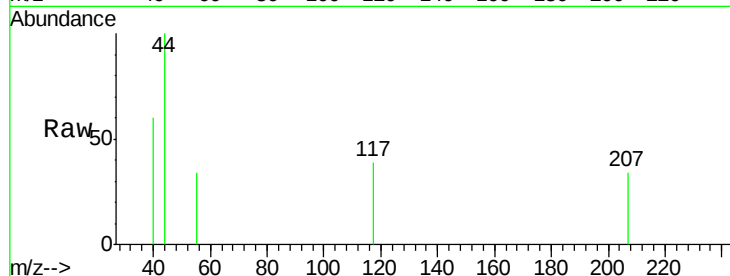




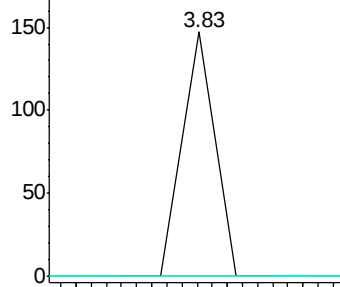
#38
Carbon Tetrachloride
Concen: 118.51 ug/l
RT: 3.83 min Scan# 335
Delta R.T. -0.35 min
Lab File: VF059554.D
Acq: 19 Jul 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
SB1-10

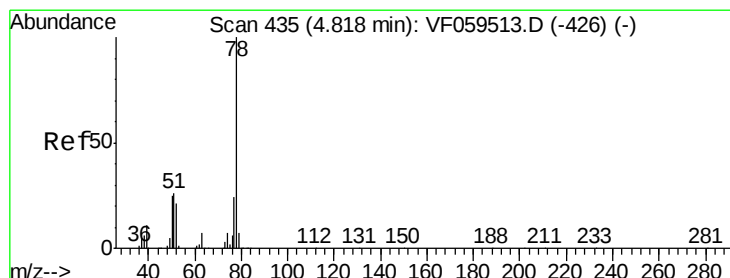
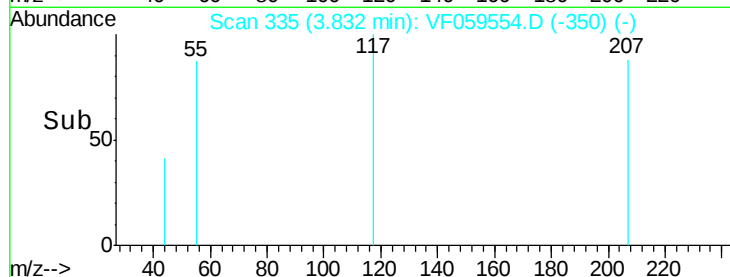
Tot Ion:117 Resp: 87
Ion Ratio Lower Upper
117 100
119 0.0 77.6 116.4#
121 0.0 24.9 37.3#



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

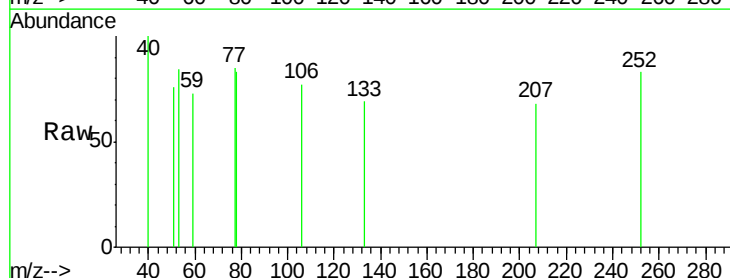


Time--> 3.80 3.82 3.84 3.86

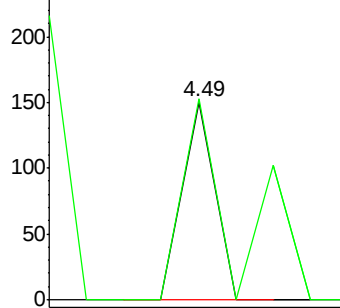


#40
Benzene
Concen: 71.61 ug/l
RT: 4.49 min Scan# 402
Delta R.T. -0.33 min
Lab File: VF059554.D
Acq: 19 Jul 2018 12:03

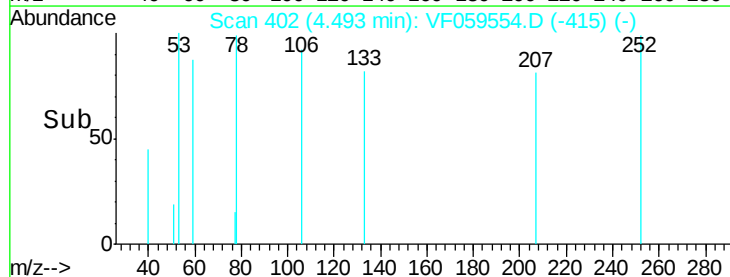
Tgt Ion: 78 Resp: 89
Ion Ratio Lower Upper
78 100
77 102.0 19.4 29.0#

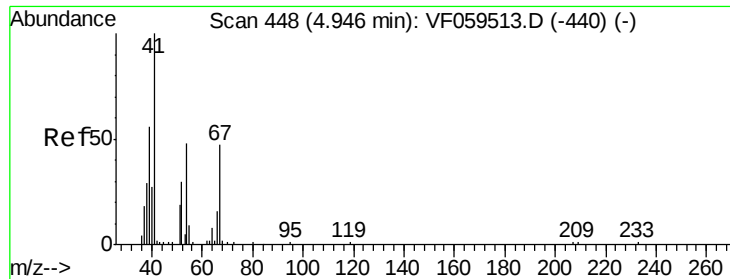


Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0



Time--> 4.46 4.48 4.50 4.52

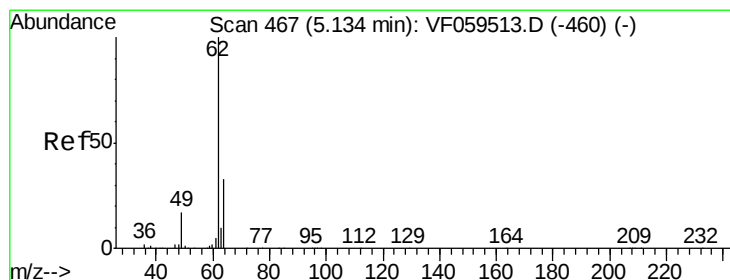
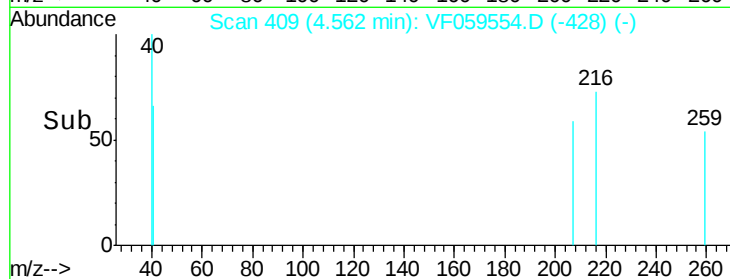
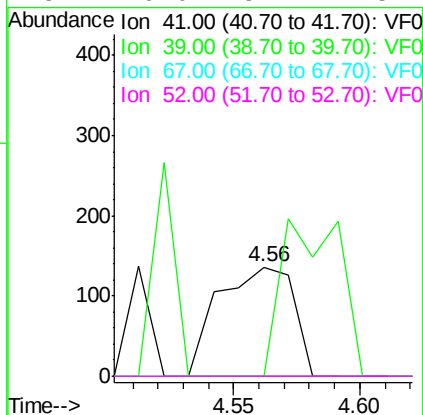
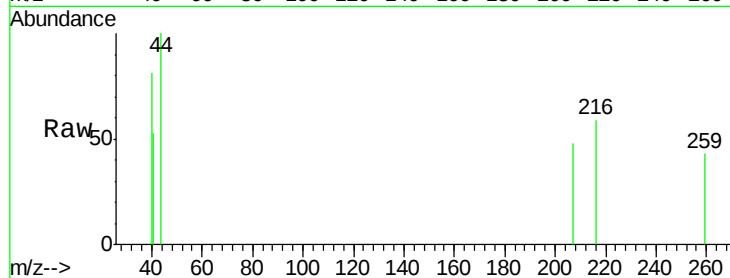




#41
Methacrylonitrile
Concen: 1540.51 ug/l
RT: 4.56 min Scan# 409
Delta R.T. -0.38 min
Lab File: VF059554.D
Acq: 19 Jul 2018 12:03

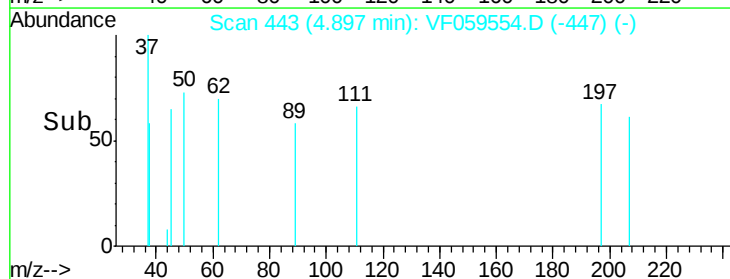
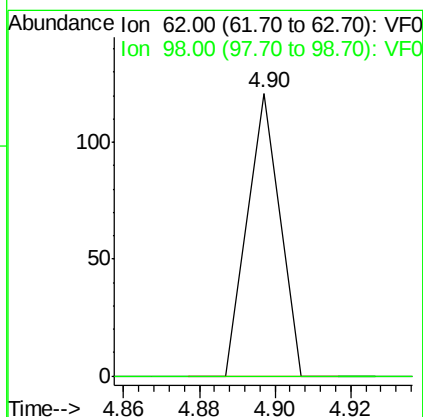
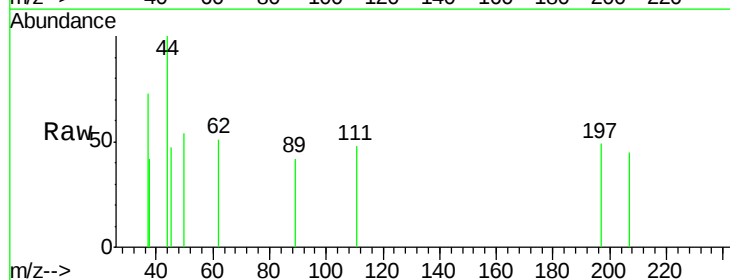
Instrument :
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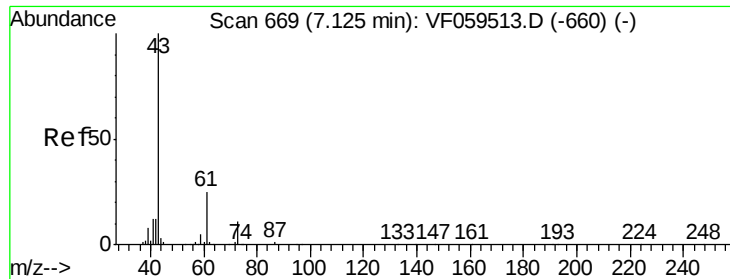
Tot Ion: 41 Resp: 283
Ion Ratio Lower Upper
41 100
39 0.0 49.4 74.0#
67 0.0 37.4 56.2#
52 0.0 32.1 48.1#



#42
1,2-Dichloroethane
Concen: 88.20 ug/l
RT: 4.90 min Scan# 443
Delta R.T. -0.24 min
Lab File: VF059554.D
Acq: 19 Jul 2018 12:03

Tgt Ion: 62 Resp: 72
Ion Ratio Lower Upper
62 100
98 0.0 0.0 9.6



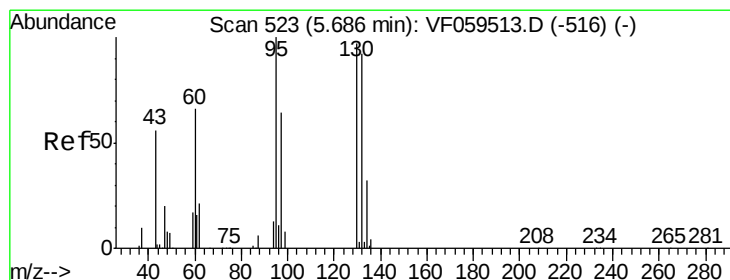
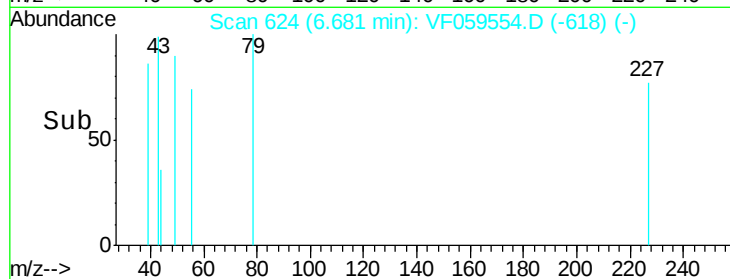
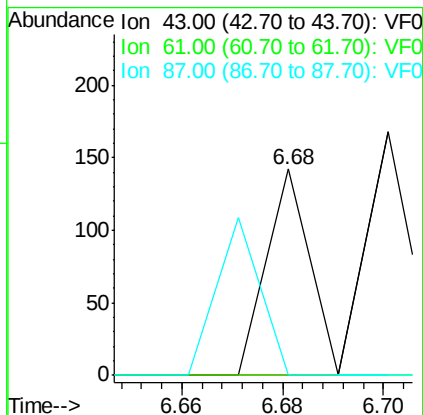
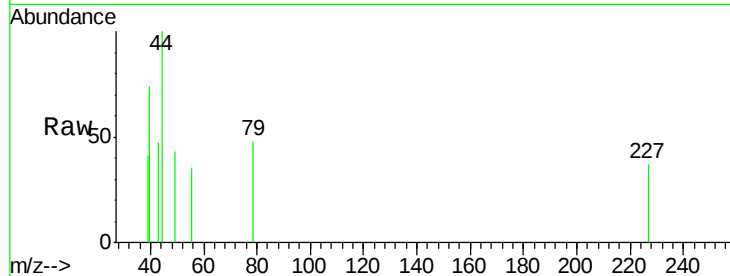


#43

Isopropyl Acetate
 Concen: 182.48 ug/l
 RT: 6.68 min Scan# 624
 Delta R.T. -0.44 min
 Lab File: VF059554.D
 Acq: 19 Jul 2018 12:03

Instrument :
 MSVOA_F
 ClientSampled :
 SB1-10

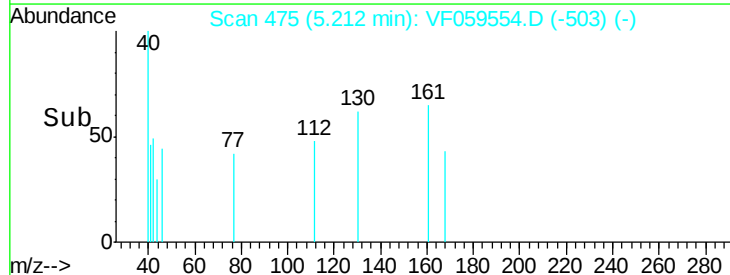
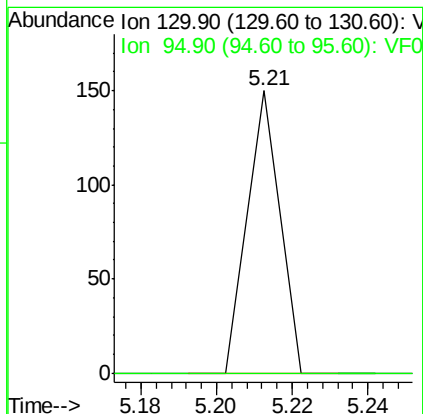
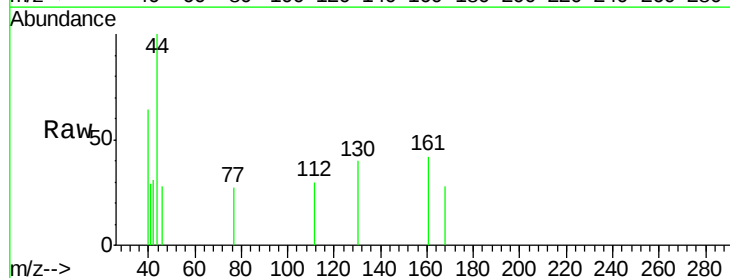
Tot Ion: 43 Resp: 84
 Ion Ratio Lower Upper
 43 100
 61 0.0 20.3 30.5#
 87 0.0 0.4 0.6#

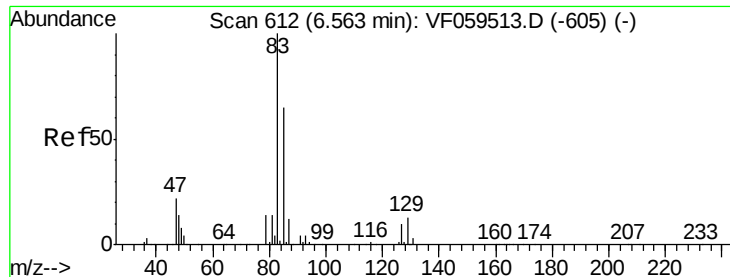


#44

Trichloroethene
 Concen: 193.47 ug/l
 RT: 5.21 min Scan# 475
 Delta R.T. -0.47 min
 Lab File: VF059554.D
 Acq: 19 Jul 2018 12:03

Tgt Ion: 130 Resp: 89
 Ion Ratio Lower Upper
 130 100
 95 0.0 0.0 206.6





#47

Bromodichloromethane

Concen: 76.67 ug/l

RT: 6.11 min Scan# 566

Delta R.T. -0.45 min

Lab File: VF059554.D

Acq: 19 Jul 2018 12:03

Instrument :

MSVOA_F

ClientSampled :

SB1-10

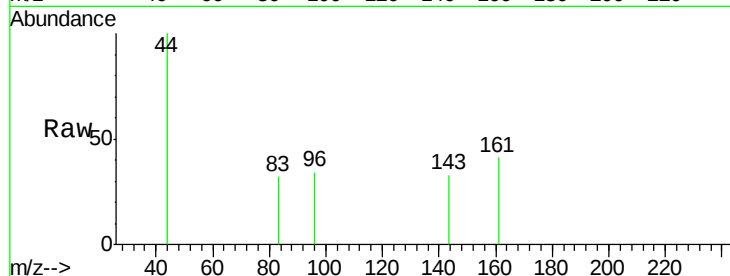
Tot Ion: 83 Resp: 62

Ion Ratio Lower Upper

83 100

85 0.0 52.4 78.6#

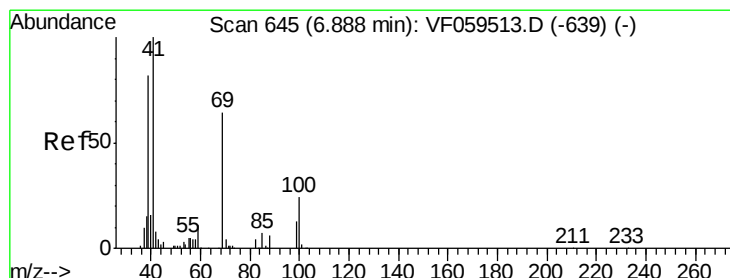
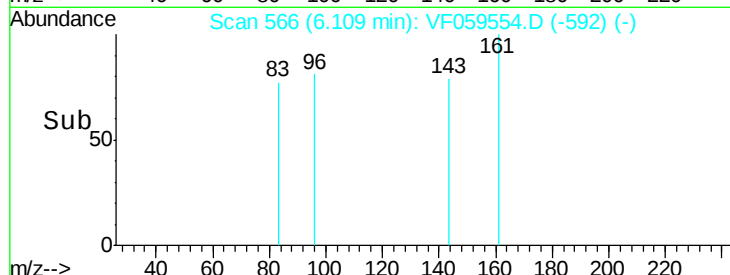
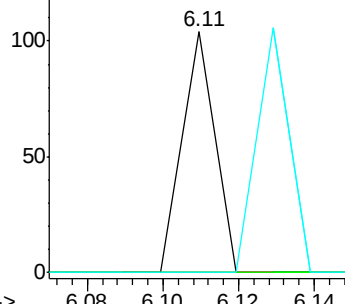
127 0.0 8.2 12.4#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 194.68 ug/l

RT: 6.39 min Scan# 594

Delta R.T. -0.50 min

Lab File: VF059554.D

Acq: 19 Jul 2018 12:03

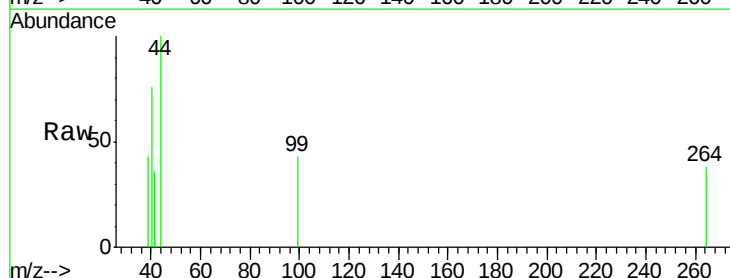
Tgt Ion: 41 Resp: 64

Ion Ratio Lower Upper

41 100

69 0.0 51.3 76.9#

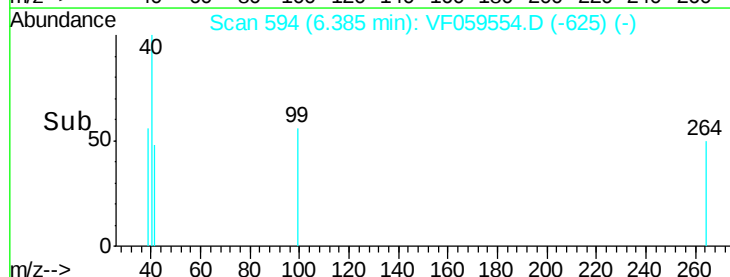
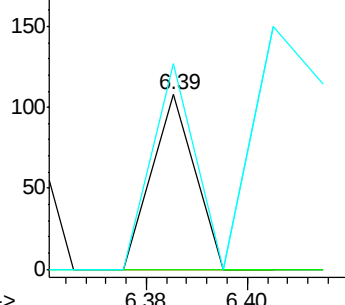
39 117.6 65.3 97.9#

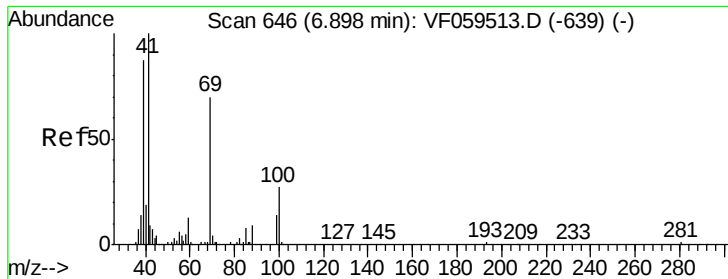


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.58 min Scan# 614

Delta R.T. -0.32 min

Lab File: VF059554.D

Acq: 19 Jul 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

SB1-10

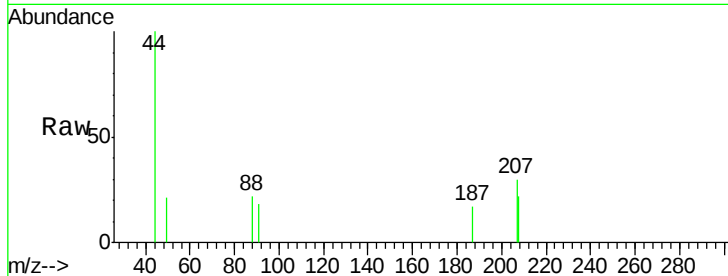
Tot Ion: 88 Resp: 77

Ion Ratio Lower Upper

88 100

43 0.0 64.8 97.2#

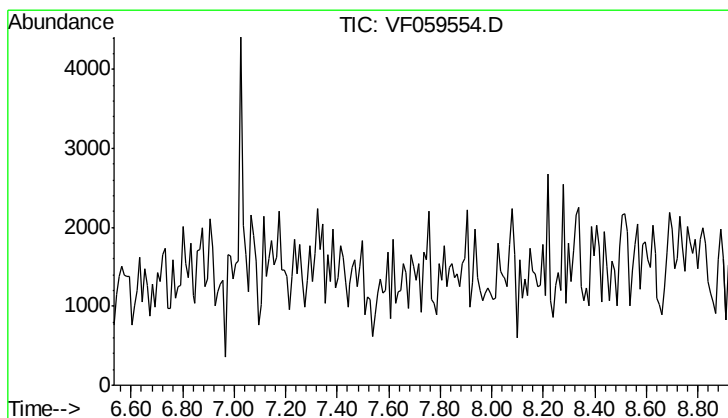
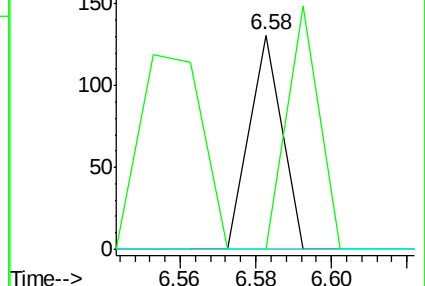
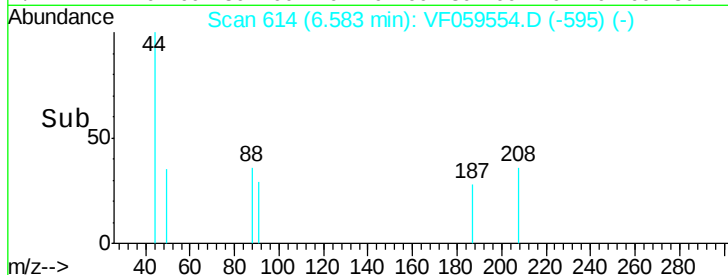
58 0.0 44.1 66.1#



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: 0.00 ug/l

Expected RT: 7.73 min

Lab File: VF059554.D

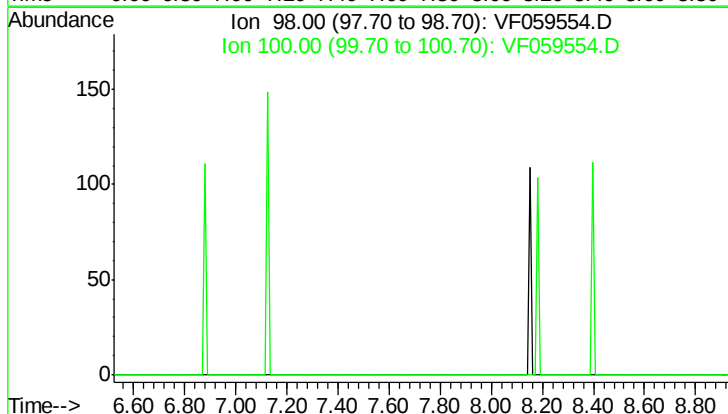
Acq: 19 Jul 2018 12:03

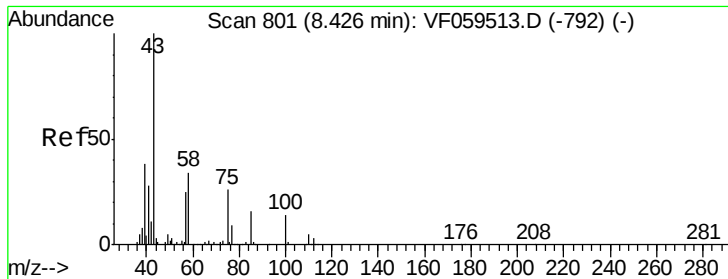
Tgt Ion: 98

Sig Exp Ratio

98 100

100 63.6





#51

4-Methyl-2-Pentanone

Concen: 429.06 ug/l

RT: 7.92 min Scan# 750

Delta R.T. -0.50 min

Lab File: VF059554.D

Acq: 19 Jul 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

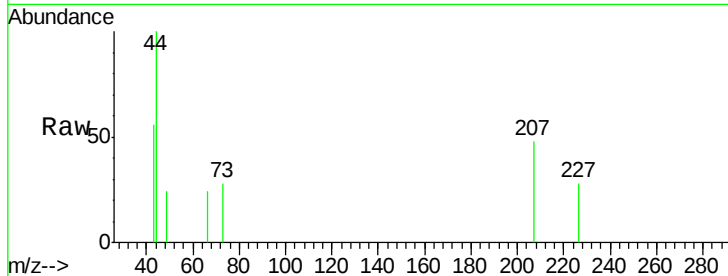
SB1-10

Tot Ion: 43 Resp: 140

Ion Ratio Lower Upper

43 100

58 0.0 27.4 41.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

7.92

250

200

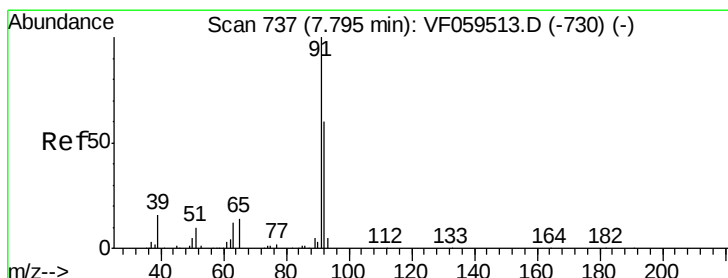
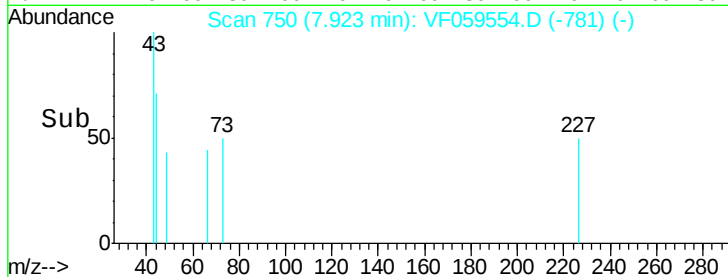
150

100

50

0

Time-->



#52

Toluene

Concen: 77.66 ug/l

RT: 7.19 min Scan# 676

Delta R.T. -0.60 min

Lab File: VF059554.D

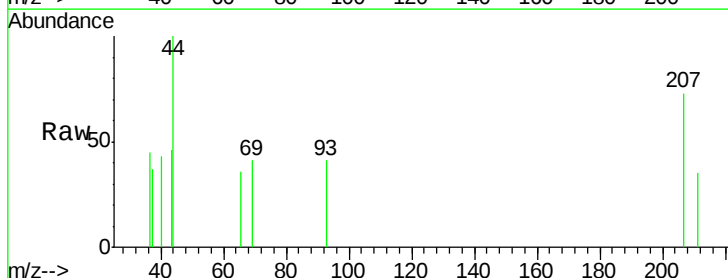
Acq: 19 Jul 2018 12:03

Tgt Ion: 92 Resp: 70

Ion Ratio Lower Upper

92 100

91 0.0 134.2 201.4#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

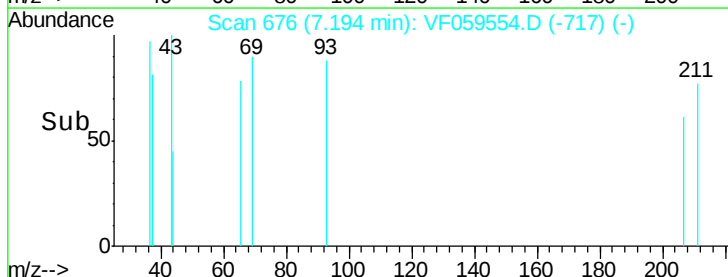
7.19

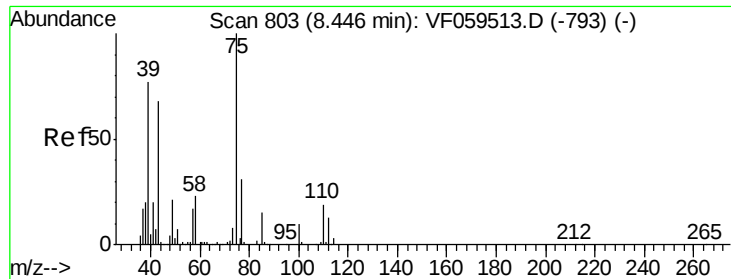
100

50

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 114.28 ug/l

RT: 7.84 min Scan# 742

Delta R.T. -0.60 min

Lab File: VF059554.D

Acq: 19 Jul 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

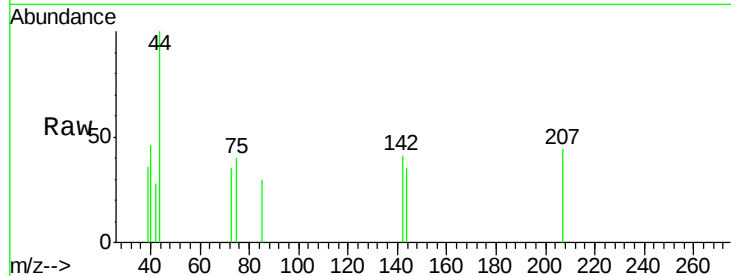
SB1-10

Tot Ion: 75 Resp: 85

Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

7.84

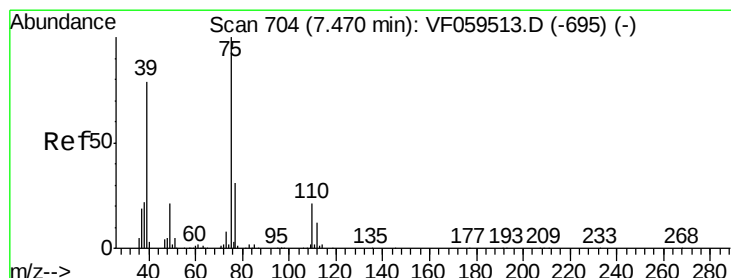
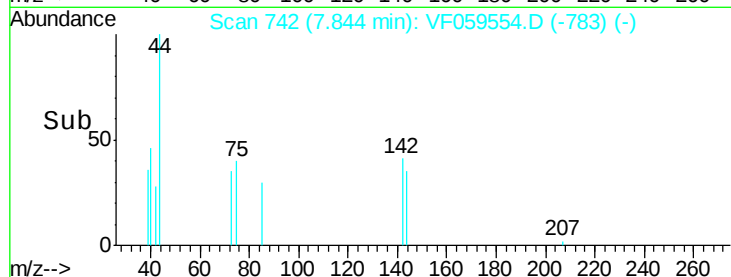
150

100

50

0

Time--> 7.82 7.84 7.86



#54

cis-1,3-Dichloropropene

Concen: 176.88 ug/l

RT: 7.00 min Scan# 656

Delta R.T. -0.47 min

Lab File: VF059554.D

Acq: 19 Jul 2018 12:03

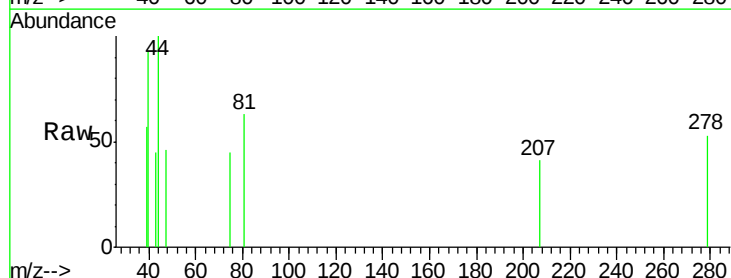
Tgt Ion: 75 Resp: 131

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 335.1 63.8 95.6#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

400

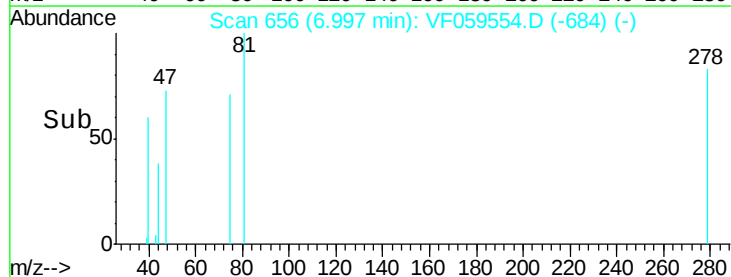
300

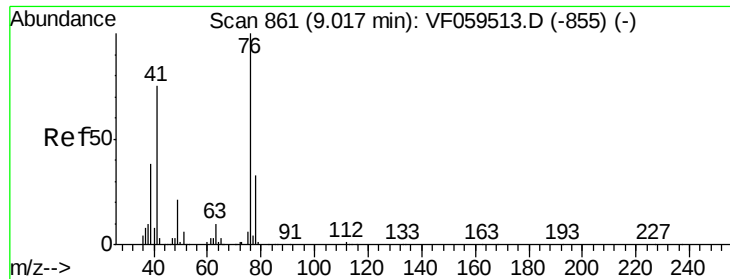
200

100

0

Time--> 6.96 6.98 7.00 7.02 7.04





#57

1,3-Dichloropropane

Concen: 105.26 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.63 min

Lab File: VF059554.D

Acq: 19 Jul 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

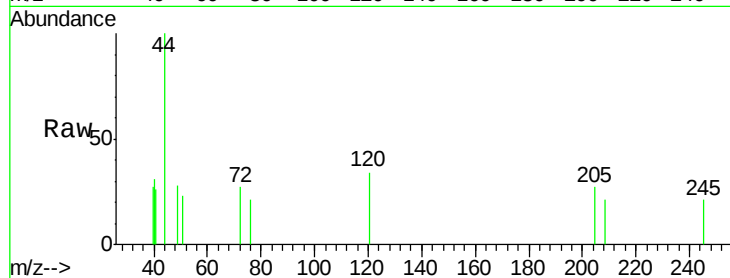
SB1-10

Tot Ion: 76 Resp: 65

Ion Ratio Lower Upper

76 100

78 0.0 26.4 39.6#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

8.39

100

80

60

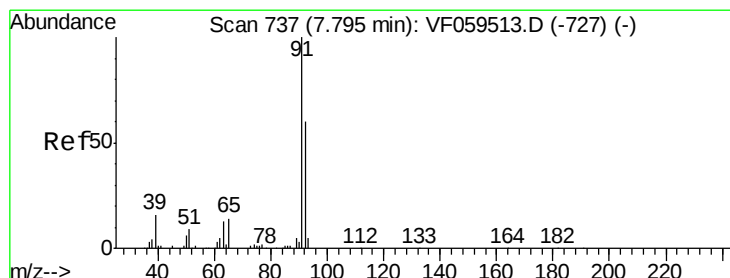
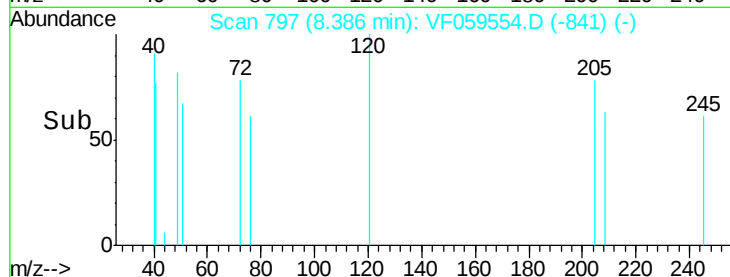
40

20

0

8.36 8.38 8.40 8.42

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1830.75 ug/l

RT: 7.17 min Scan# 674

Delta R.T. -0.62 min

Lab File: VF059554.D

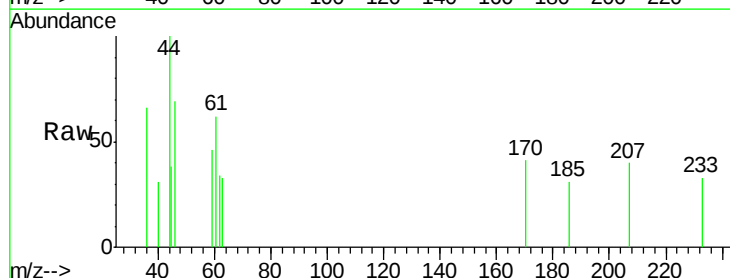
Acq: 19 Jul 2018 12:03

Tgt Ion: 63 Resp: 70

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

7.17

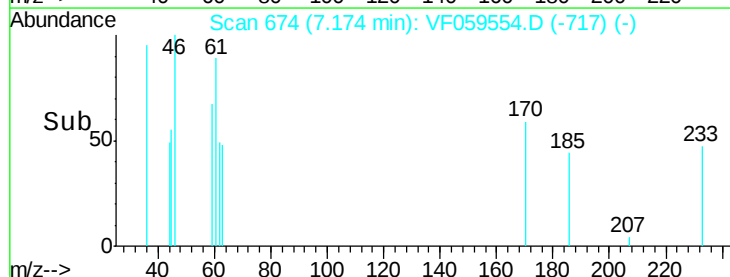
100

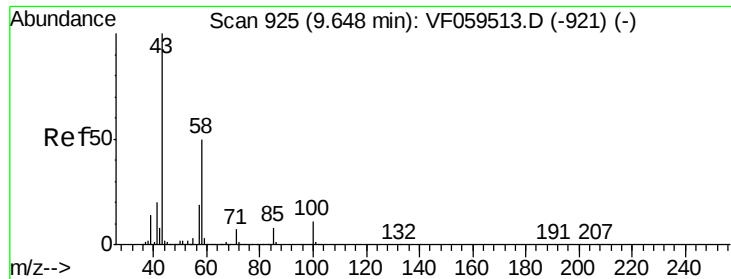
50

0

7.14 7.16 7.18 7.20

Time-->





#59

2-Hexanone

Concen: 255.47 ug/l

RT: 9.01 min Scan# 860

Delta R.T. -0.64 min

Lab File: VF059554.D

Acq: 19 Jul 2018 12:03

Instrument :

MSVOA_F

ClientSampled :

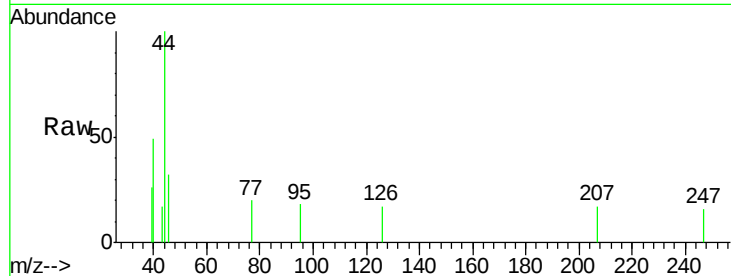
SB1-10

Tot Ion: 43 Resp: 63

Ion Ratio Lower Upper

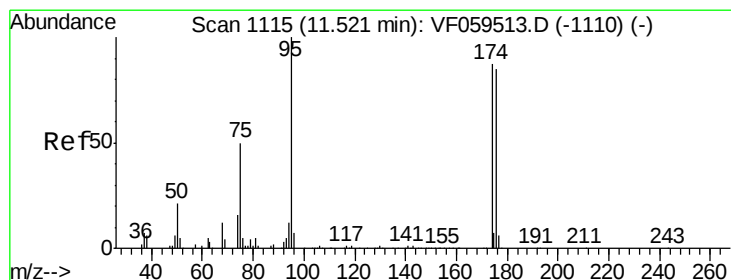
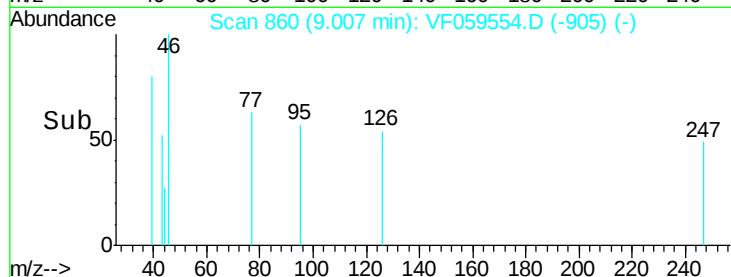
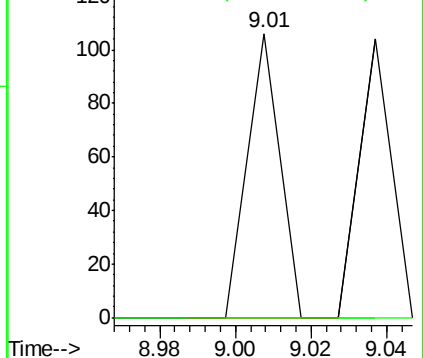
43 100

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: 83.28 ug/l

RT: 10.81 min Scan# 1043

Delta R.T. -0.71 min

Lab File: VF059554.D

Acq: 19 Jul 2018 12:03

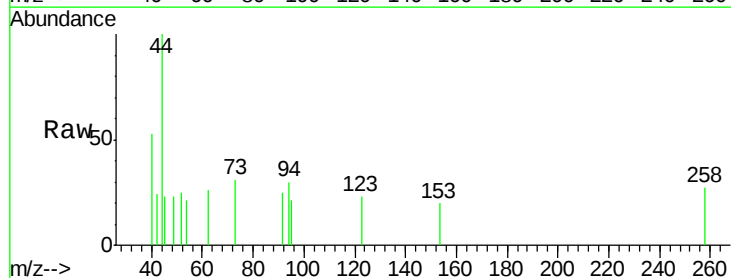
Tgt Ion: 95 Resp: 61

Ion Ratio Lower Upper

95 100

174 0.0 0.0 174.4

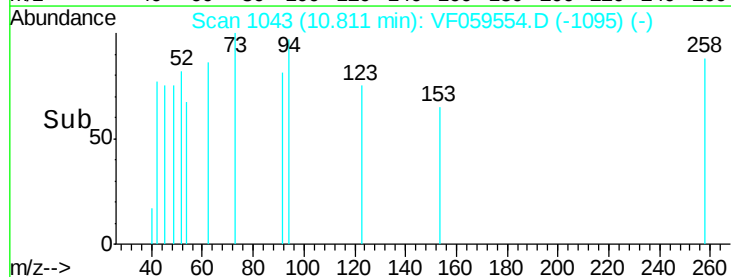
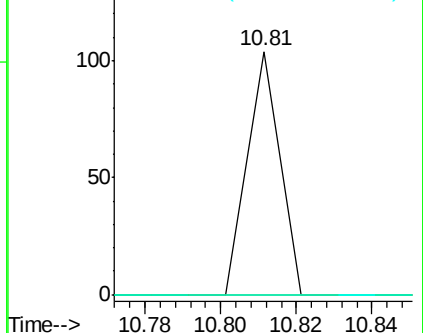
176 0.0 0.0 169.4

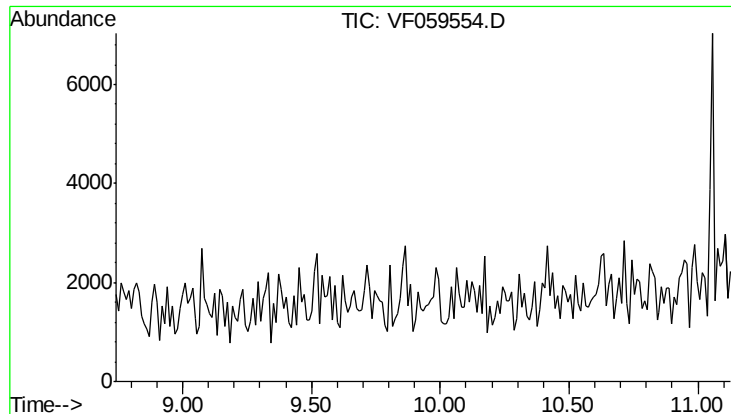


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



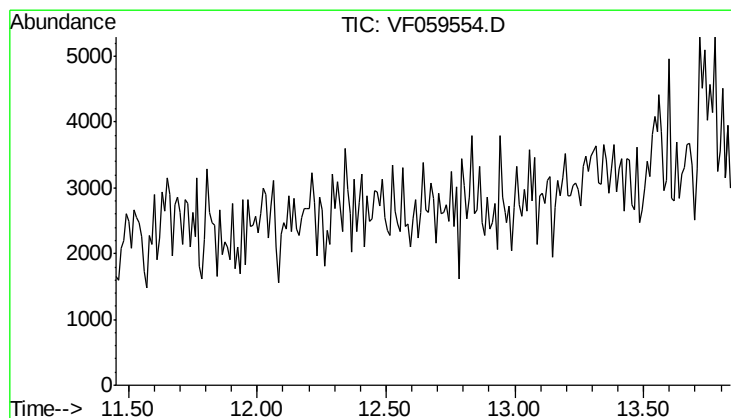
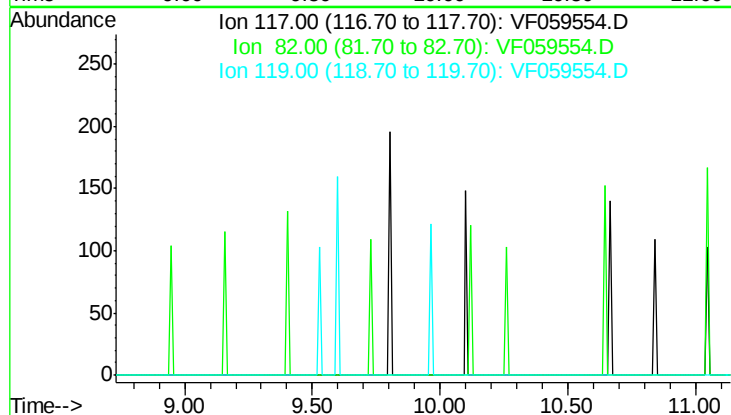


#63
 Chlorobenzene-d5
 Concen: 0.00 ug/l
 Expected RT: 9.93 min

Lab File: VF059554.D
 Acq: 19 Jul 2018 12:03

Instrument :
 MSVOA_F
 ClientSampleId :
 SB1-10

Tot Ion: 117
 Sig Exp Ratio
 117 100
 82 57.6
 119 34.0



#72
 1,4-Dichlorobenzene-d4
 Concen: 0.00 ug/l
 Expected RT: 12.64 min

Lab File: VF059554.D
 Acq: 19 Jul 2018 12:03

Tgt Ion: 152
 Sig Exp Ratio
 152 100
 115 55.5
 150 159.2

