

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072018\
 Data File : VF059592.D
 Acq On : 20 Jul 2018 20:32
 Operator : VA/AP
 Sample : J4016-13
 Misc : 6.23g/5mL/MSVOA F/SOIL
 ALS Vial : 87 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB4-U-13

Quant Time: Jul 21 00:18:44 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

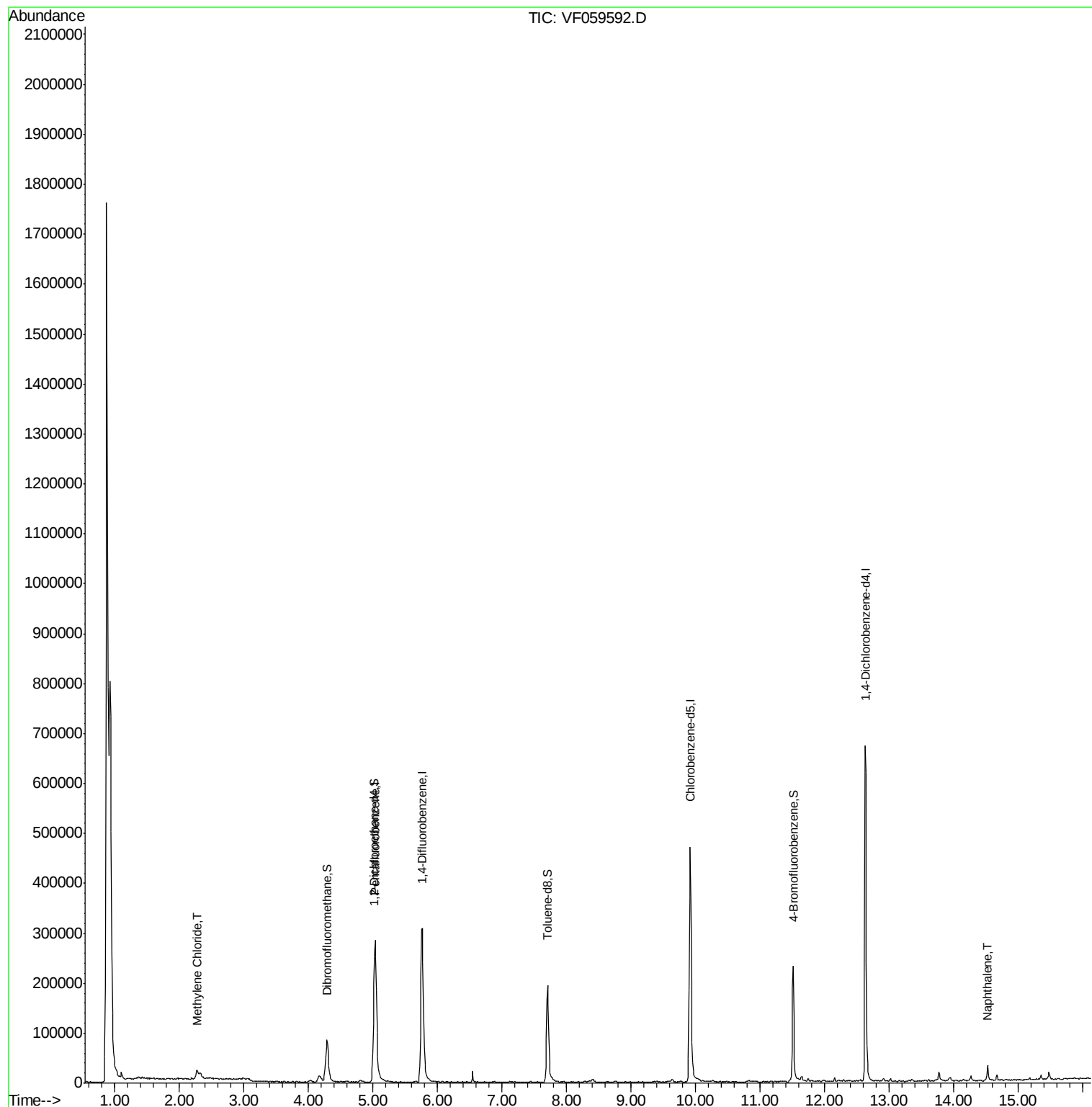
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	224337	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	335715	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	335712	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	181444	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	87773	25.16	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	50.32%	
35) Dibromofluoromethane	4.28	113	76402	26.28	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	52.56%	
50) Toluene-d8	7.71	98	166041	22.67	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	45.34%	
62) 4-Bromofluorobenzene	11.51	95	81693	21.26	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	42.52%	
Target Compounds						
20) Methylene Chloride	2.28	84	10971	2.63	ug/l	# 95
95) Naphthalene	14.53	128	23665	3.56	ug/l	98

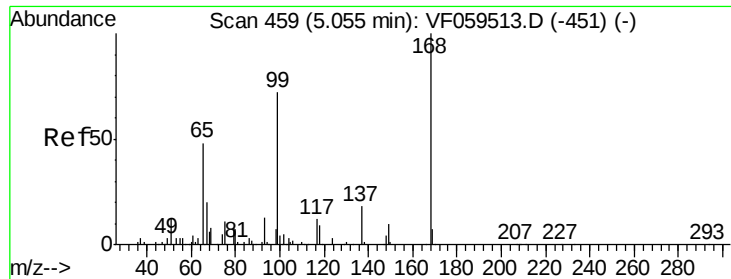
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF059592.D

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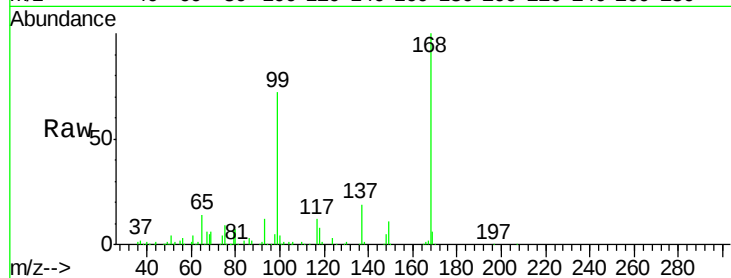
SB4-U-13

Tot Ion:168 Resp: 224337

Ion Ratio Lower Upper

168 100

99 72.3 57.6 86.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

80000

60000

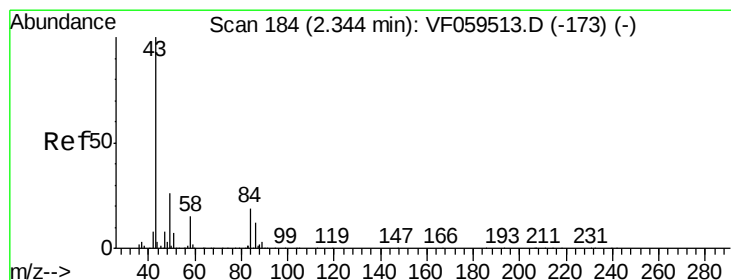
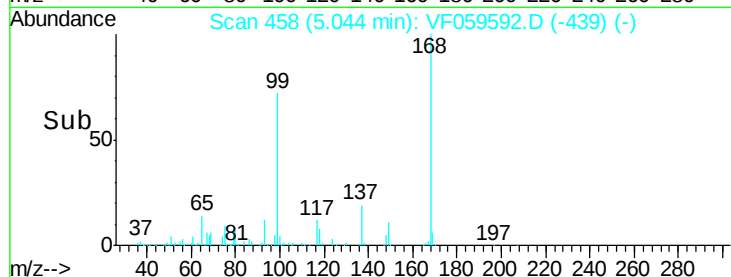
40000

20000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#20

Methylene Chloride

Concen: 2.63 ug/l

RT: 2.28 min Scan# 178

Delta R.T. -0.06 min

Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

Tgt Ion: 84 Resp: 10971

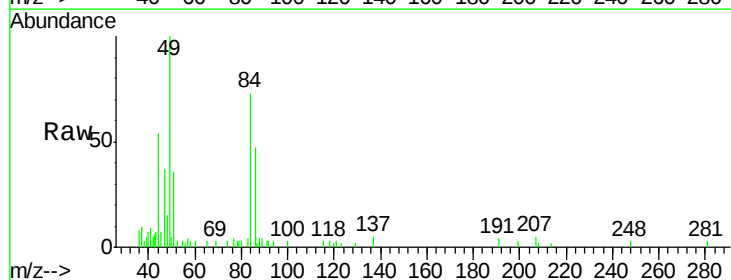
Ion Ratio Lower Upper

84 100

49 137.5 109.4 164.2

51 48.9 30.5 45.7#

86 64.5 47.6 71.4



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

8000

6000

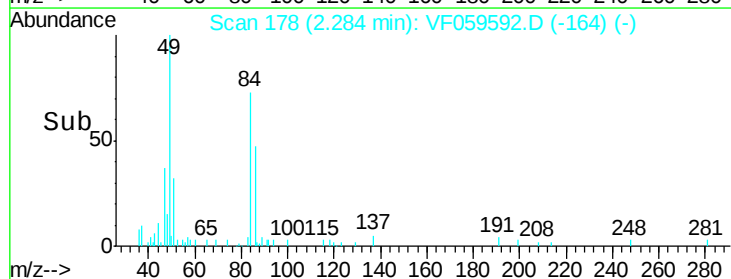
4000

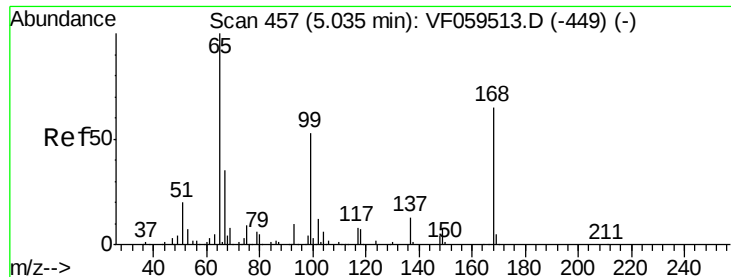
2000

0

Time-->

2.20 2.30 2.40

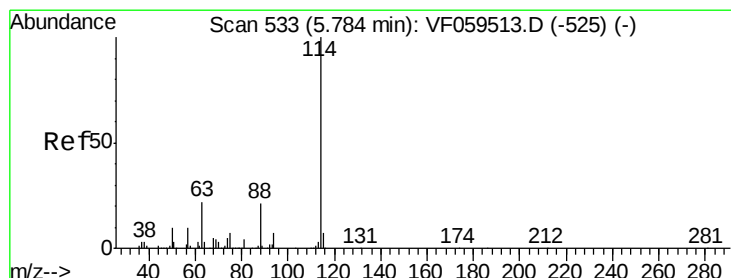
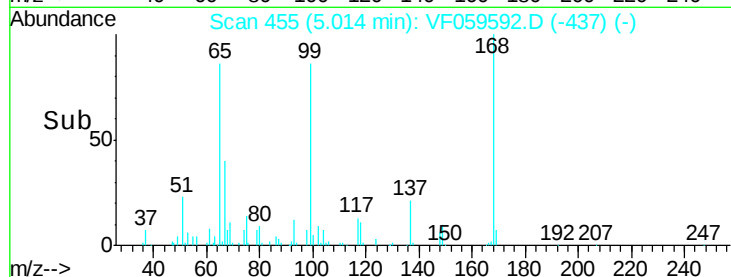
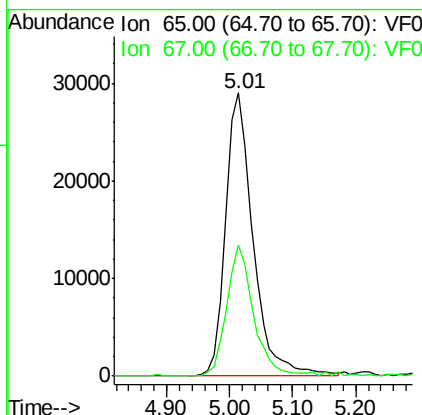
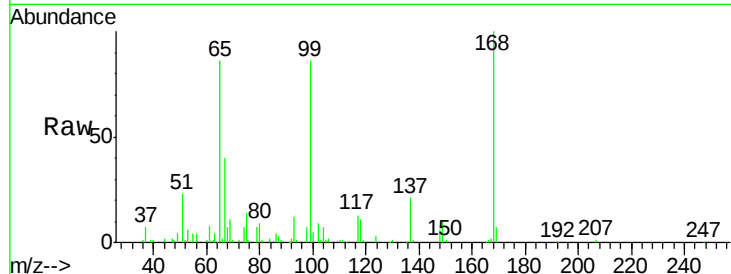




#33
 1,2-Dichloroethane-d4
 Concen: 25.16 ug/l
 RT: 5.01 min Scan# 455
 Delta R.T. -0.02 min
 Lab File: VF059592.D
 Acq: 20 Jul 2018 20:32

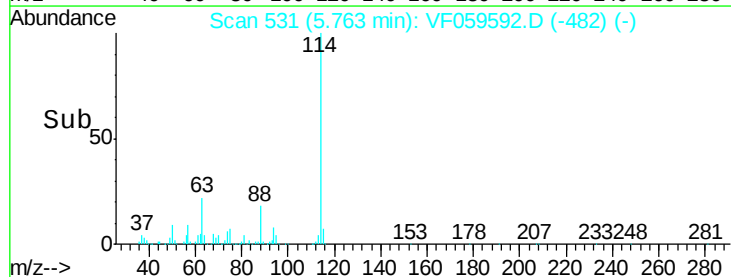
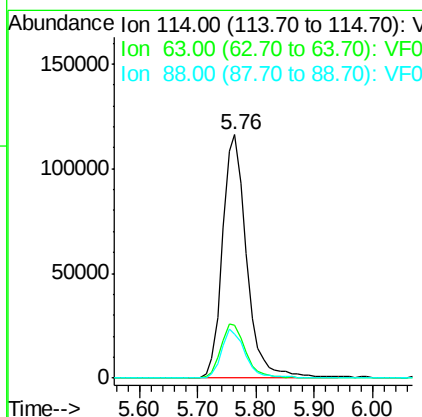
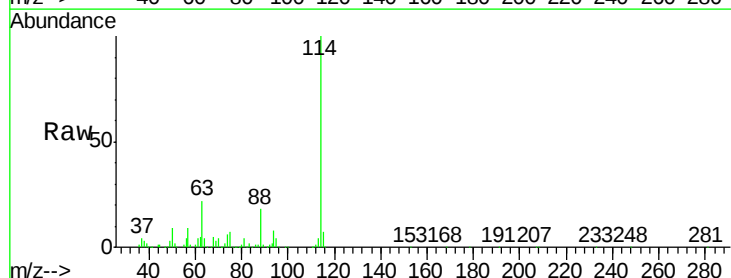
Instrument :
 MSVOA_F
 ClientSampleId :
 SB4-U-13

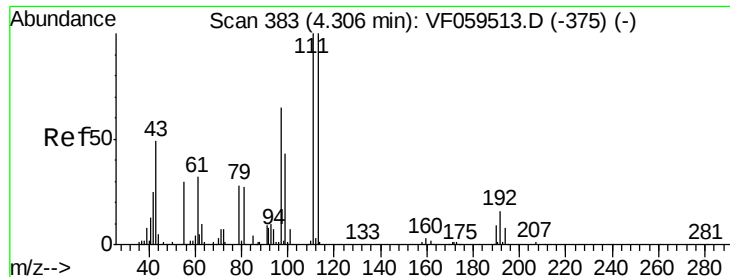
Tot Ion: 65 Resp: 87773
 Ion Ratio Lower Upper
 65 100
 67 46.2 0.0 91.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.02 min
 Lab File: VF059592.D
 Acq: 20 Jul 2018 20:32

Tgt Ion: 114 Resp: 335715
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 44.8
 88 18.1 0.0 42.6

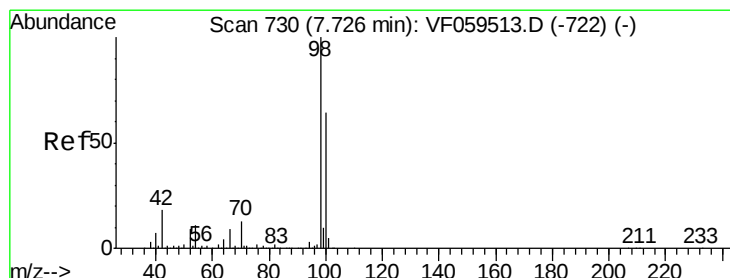
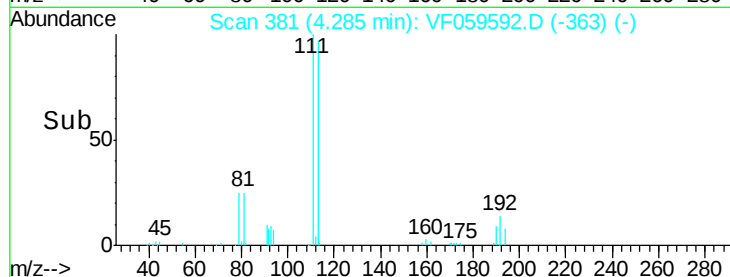
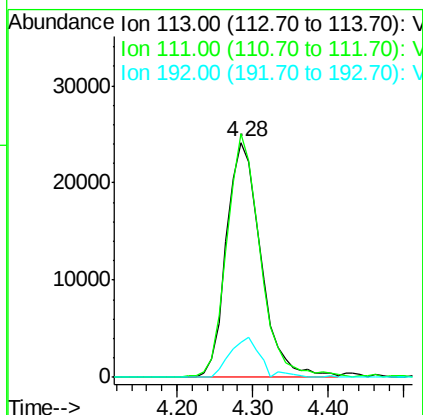
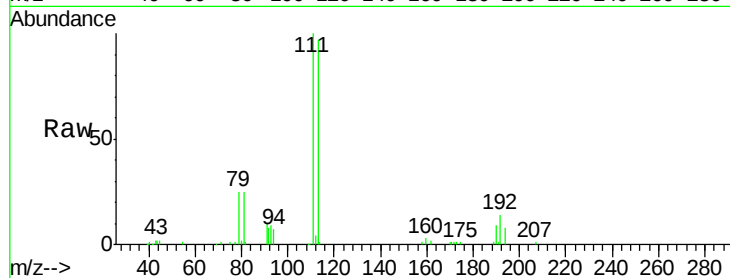




#35
Dibromofluoromethane
Concen: 26.28 ug/l
RT: 4.28 min Scan# 381
Delta R.T. -0.02 min
Lab File: VF059592.D
Acq: 20 Jul 2018 20:32

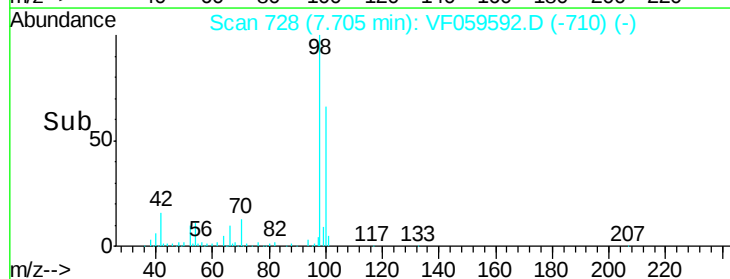
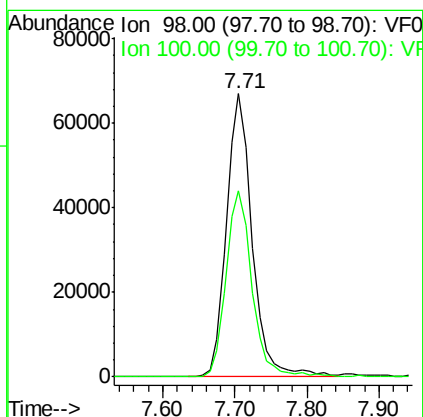
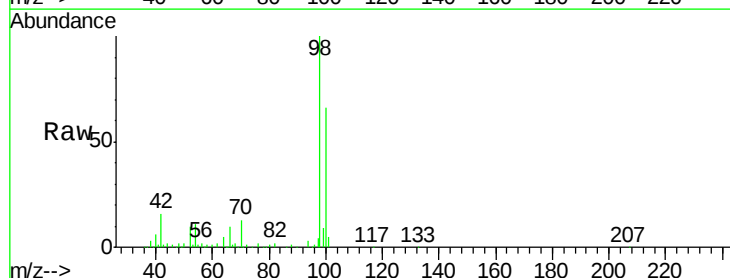
Instrument :
MSVOA_F
ClientSampleId :
SB4-U-13

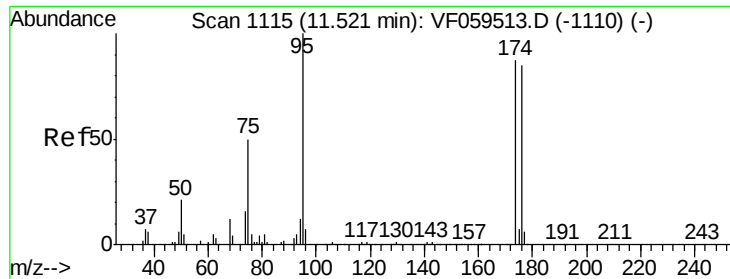
Tot Ion:113 Resp: 76402
Ion Ratio Lower Upper
113 100
111 102.0 80.3 120.5
192 14.8 13.1 19.7



#50
Toluene-d8
Concen: 22.67 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.02 min
Lab File: VF059592.D
Acq: 20 Jul 2018 20:32

Tgt Ion: 98 Resp: 166041
Ion Ratio Lower Upper
98 100
100 65.7 50.9 76.3

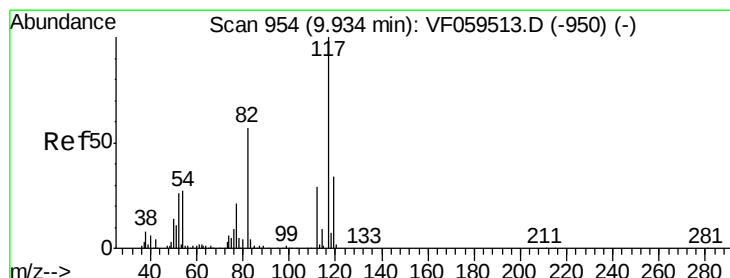
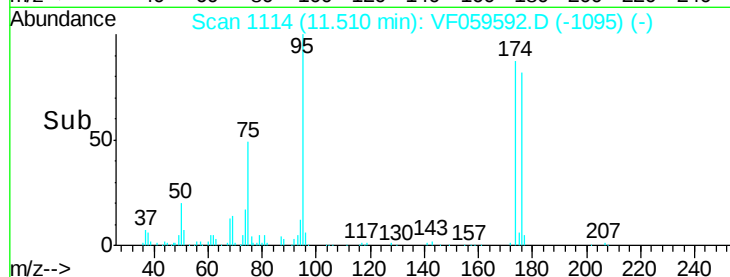
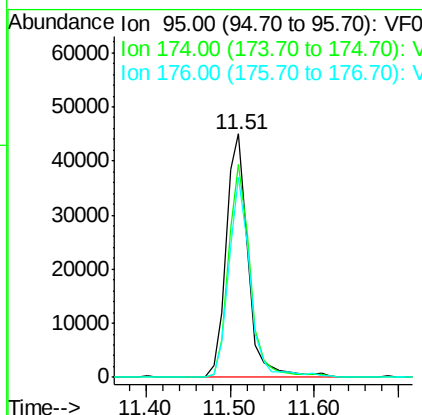
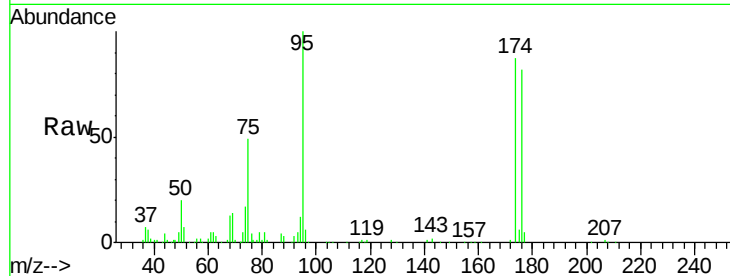




#62
4-Bromofluorobenzene
Concen: 21.26 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VF059592.D
Acq: 20 Jul 2018 20:32

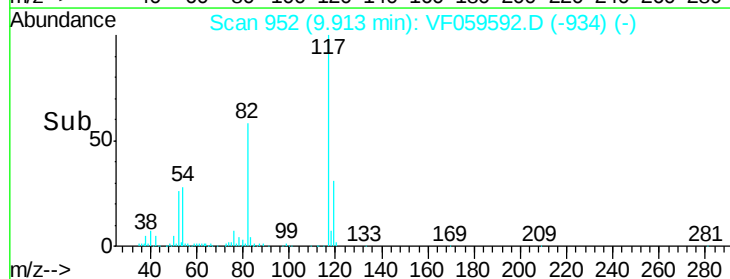
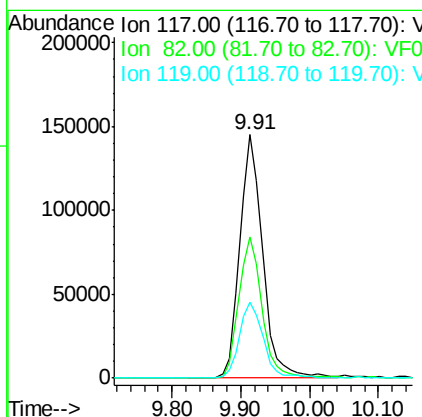
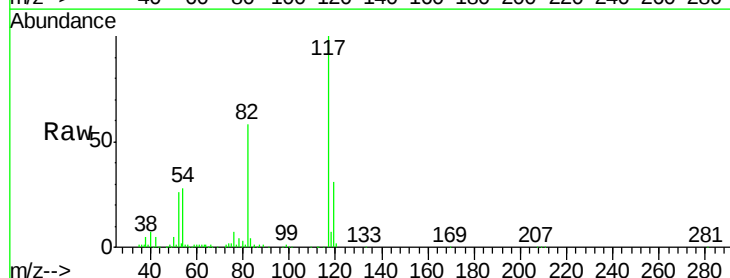
Instrument :
MSVOA_F
ClientSampleId :
SB4-U-13

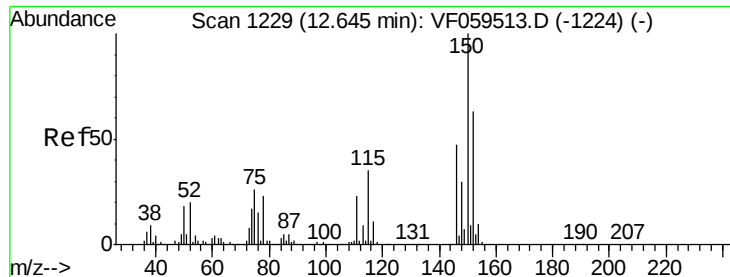
Tot Ion: 95 Resp: 81693
Ion Ratio Lower Upper
95 100
174 87.3 0.0 174.4
176 82.0 0.0 169.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 952
Delta R.T. -0.02 min
Lab File: VF059592.D
Acq: 20 Jul 2018 20:32

Tgt Ion: 117 Resp: 335712
Ion Ratio Lower Upper
117 100
82 57.8 46.1 69.1
119 31.0 27.2 40.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

Instrument :

MSVOA_F

ClientSampleId :

SB4-U-13

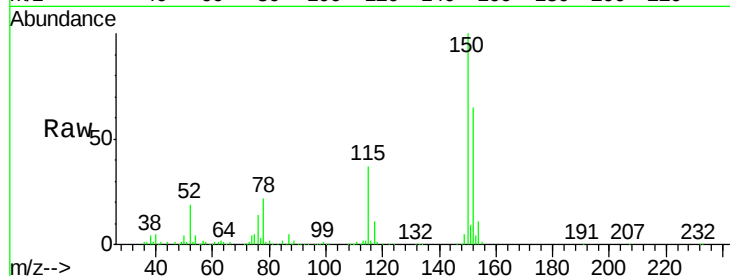
Tot Ion:152 Resp: 181444

Ion Ratio Lower Upper

152 100

115 57.3 27.8 83.3

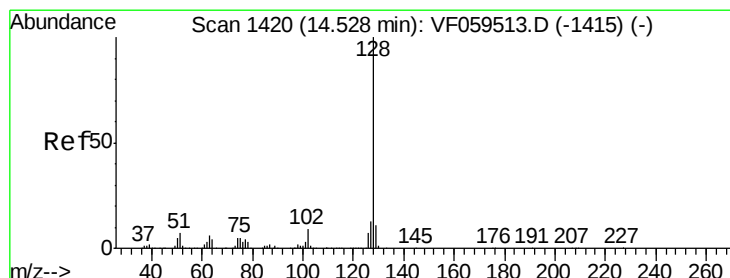
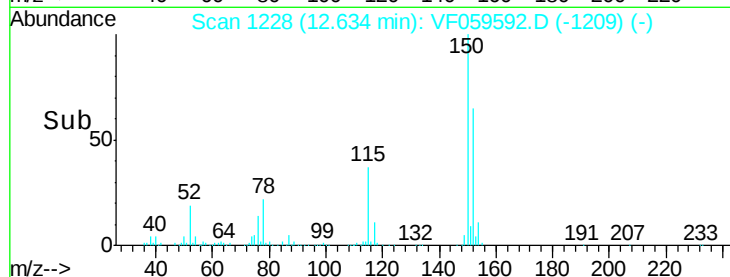
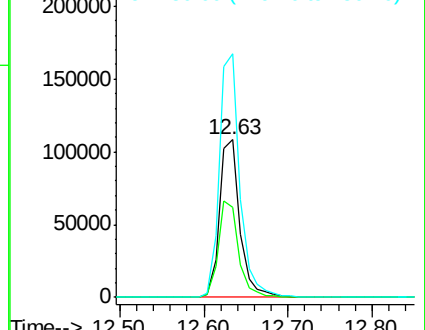
150 154.8 0.0 318.4



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#95

Naphthalene

Concen: 3.56 ug/l

RT: 14.53 min Scan# 1420

Delta R.T. -0.00 min

Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

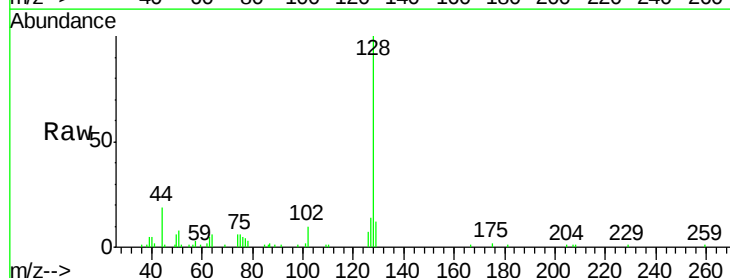
Tgt Ion:128 Resp: 23665

Ion Ratio Lower Upper

128 100

127 13.5 10.2 15.2

129 12.3 9.0 13.4



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

