

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 :

Quant Time: Jul 20 23:28:07 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

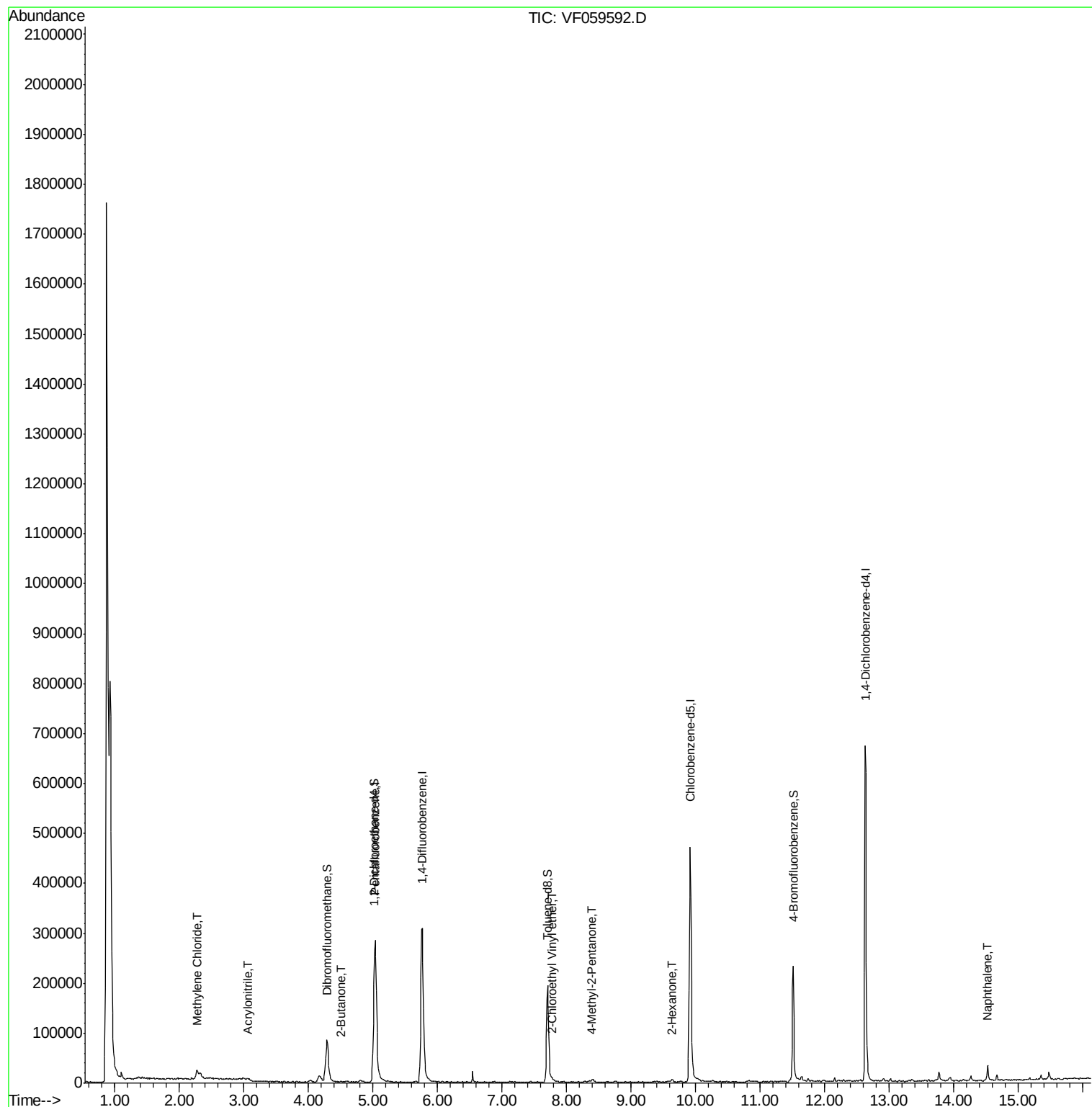
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	224337	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	335715	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	335712	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	181444	50.00	ug/l	-0.01
System Monitoring 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						
					Qvalue	
11) Tert butyl alcohol	2.65	59	465	Below Cal	#	74
13) Acrolein	2.15	56	159	Below Cal		88
15) Acrylonitrile	3.05	53	548	1.872 ug/l	#	25
16) Acetone	2.33	43	12486	Below Cal		96
18) Methyl Acetate	2.45	43	478	Below Cal	#	67
20) Methylene Chloride	2.28	84	10971	2.627 ug/l	#	95
25) 2-Butanone	4.51	43	1104	1.363 ug/l	#	69
29) Tetrahydrofuran	4.25	42	643	Below Cal	#	58
37) Ethyl Acetate	4.28	43	583	Below Cal	#	41
49) 1,4-Dioxane	6.88	88	95	Below Cal	#	15
51) 4-Methyl-2-Pentanone	8.40	43	5151	3.009 ug/l	#	75
58) 2-Chloroethyl Vinyl ether	7.78	63	452	2.254 ug/l		100
59) 2-Hexanone	9.63	43	4875	3.769 ug/l		86
95) Naphthalene	14.53	128	23665	3.560 ug/l		98

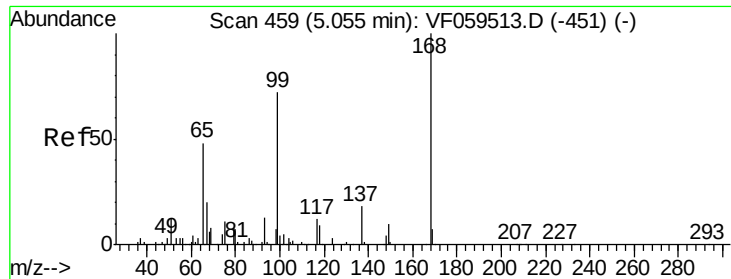
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 18 04:09:10 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

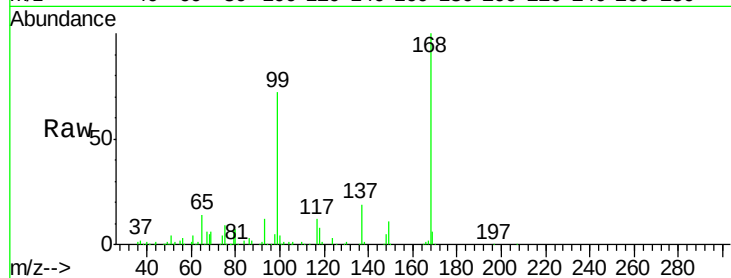
Instrument :
MSVOA_F
ClientSampleId :

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

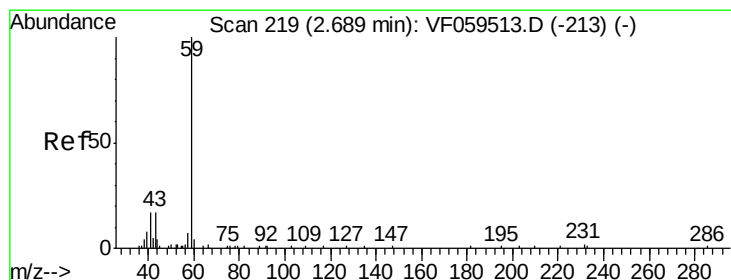
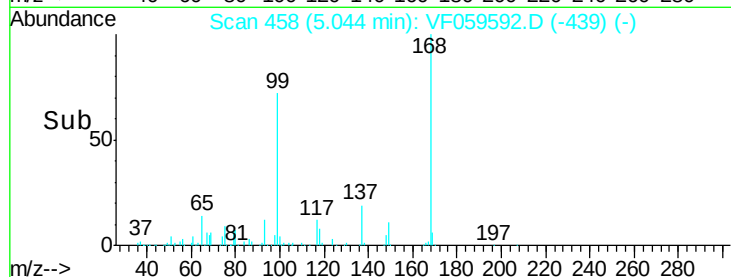
40000

20000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.65 min Scan# 215

Delta R.T. -0.04 min

Lab File: VF059592.D

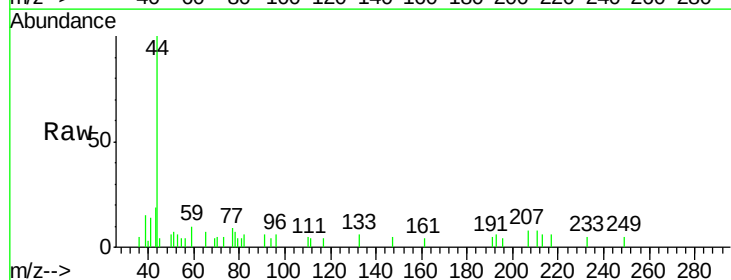
Acq: 20 Jul 2018 20:32

Tgt Ion: 59 Resp: 465

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.65

300

250

200

150

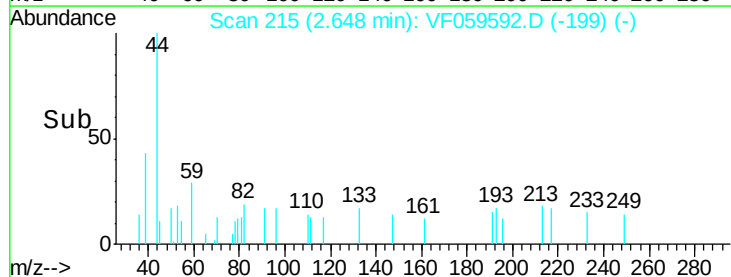
100

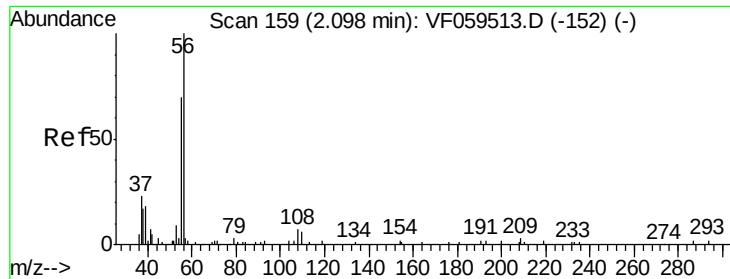
50

0

Time-->

2.60 2.62 2.64 2.66 2.68





#13

Acrolein

Concen: Below Cal

RT: 2.15 min Scan# 164

Delta R.T. 0.05 min

Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

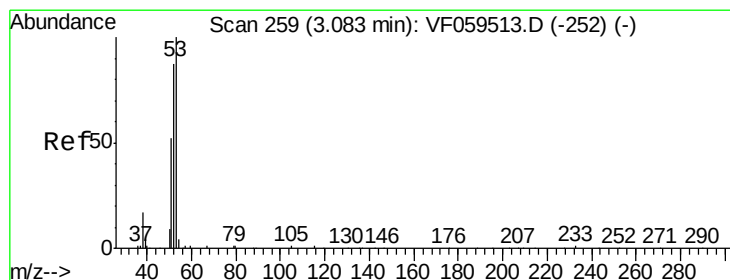
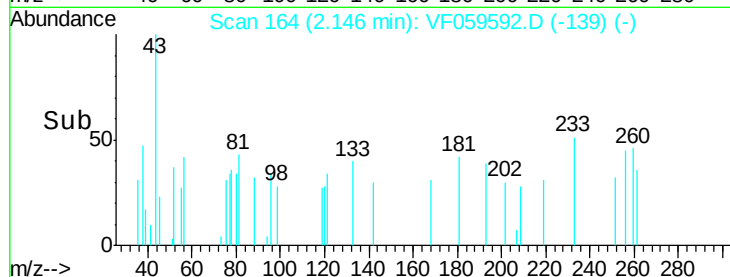
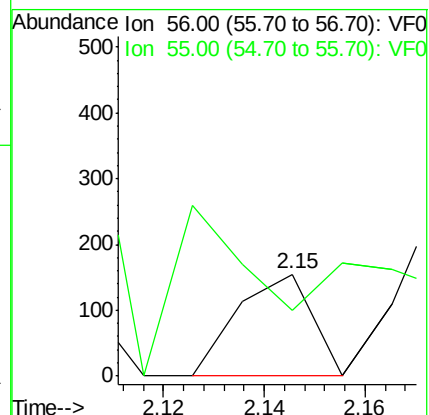
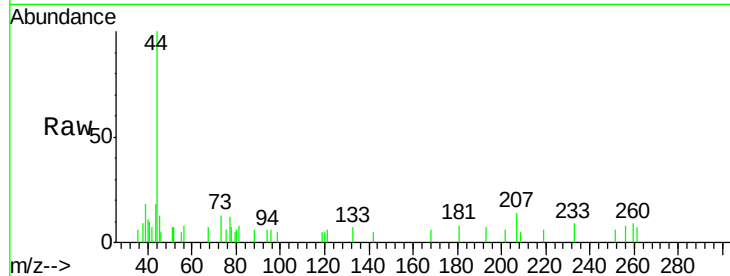
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 159

Ion Ratio Lower Upper

56 100

55 64.5 59.4 89.2



#15

Acrylonitrile

Concen: 1.872 ug/l

RT: 3.05 min Scan# 256

Delta R.T. -0.03 min

Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

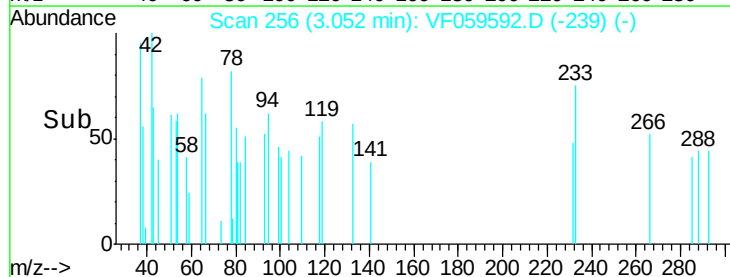
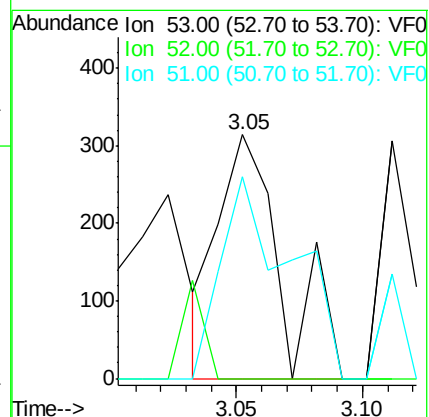
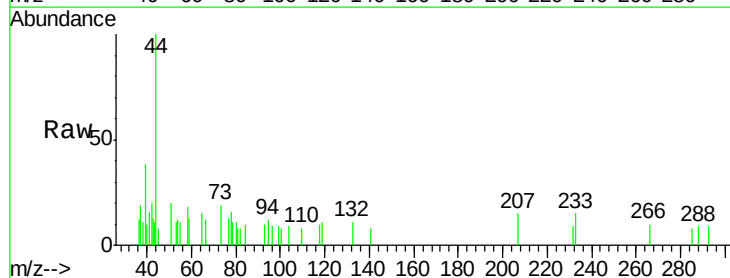
Tgt Ion: 53 Resp: 548

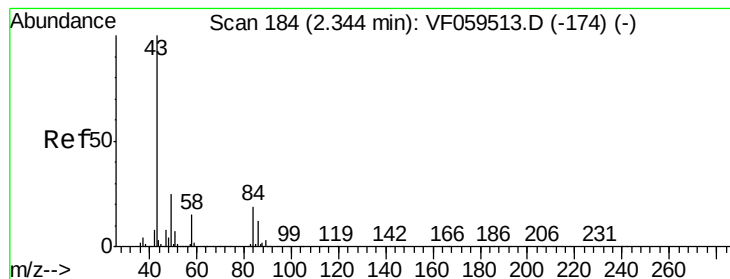
Ion Ratio Lower Upper

53 100

52 0.0 70.1 105.1#

51 82.8 42.5 63.7#





#16

Acetone

Concen: Below Cal

RT: 2.33 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

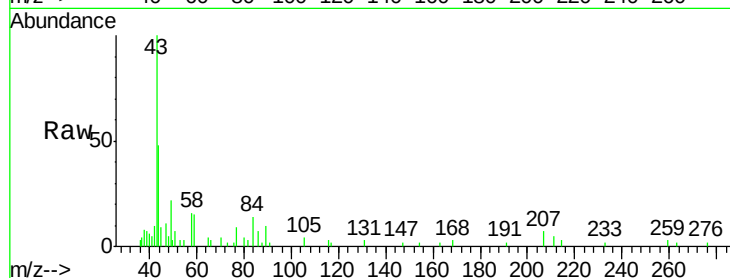
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 12486

Ion Ratio Lower Upper

43 100

58 16.4 11.8 17.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.33

5000

4000

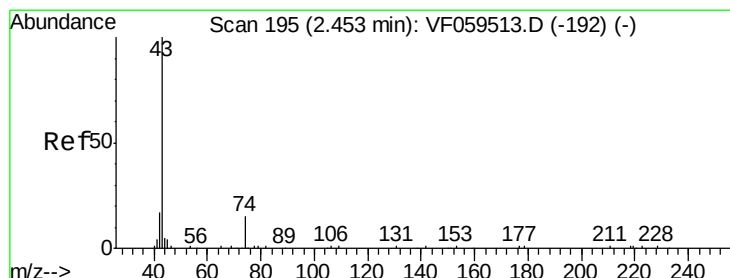
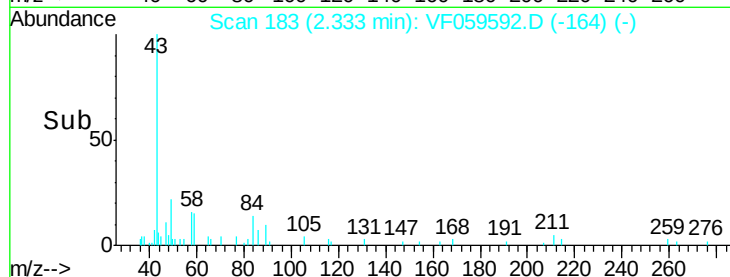
3000

2000

1000

0

Time--> 2.20 2.30 2.40



#18

Methyl Acetate

Concen: Below Cal

RT: 2.45 min Scan# 195

Delta R.T. -0.00 min

Lab File: VF059592.D

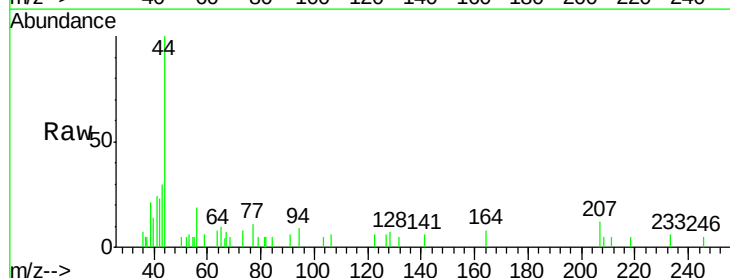
Acq: 20 Jul 2018 20:32

Tgt Ion: 43 Resp: 478

Ion Ratio Lower Upper

43 100

74 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2.45

800

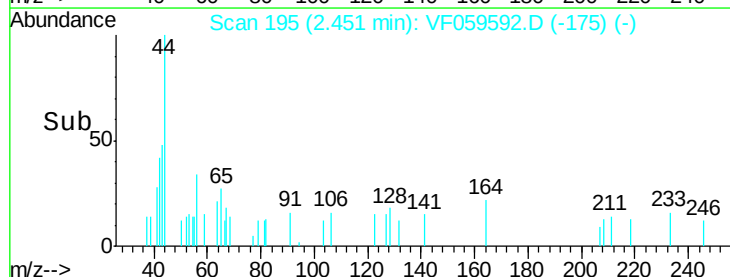
600

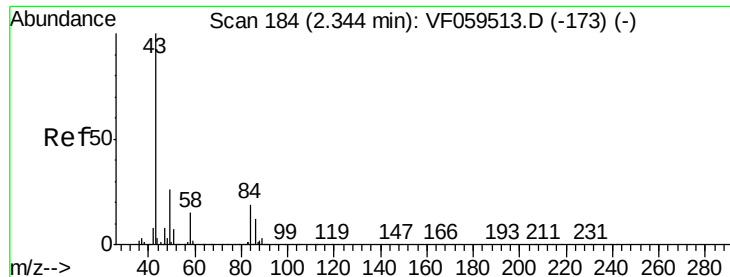
400

200

0

Time--> 2.40 2.42 2.44 2.46 2.48

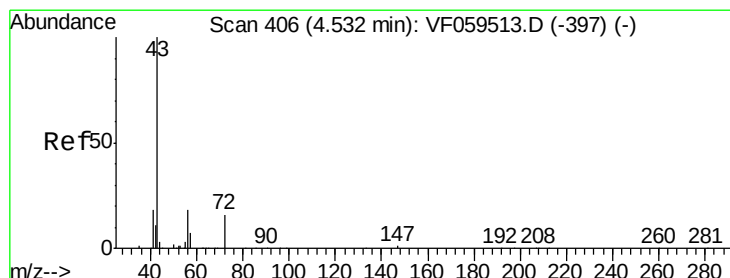
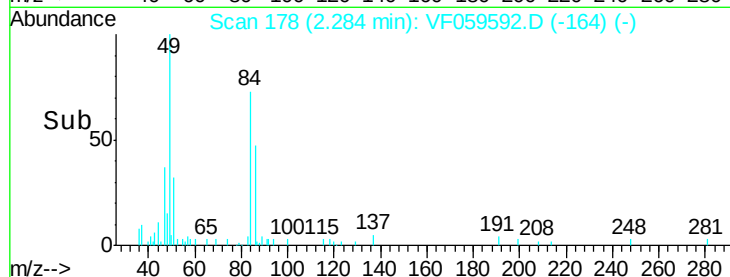
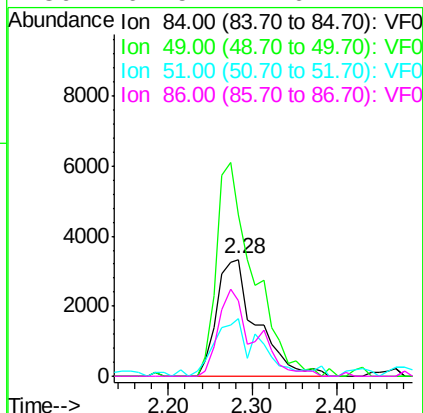
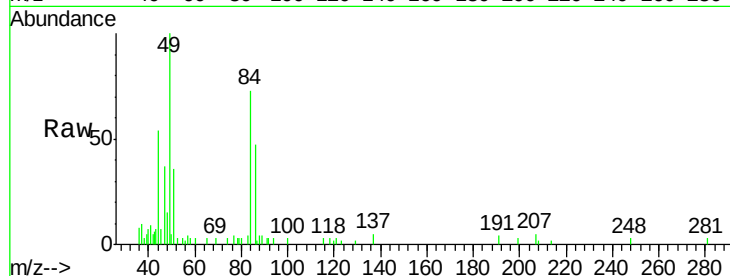




#20
Methvlene Chloride
Concen: 2.627 ug/l
RT: 2.28 min Scan# 178
Delta R.T. -0.06 min
Lab File: VF059592.D
Acq: 20 Jul 2018 20:32

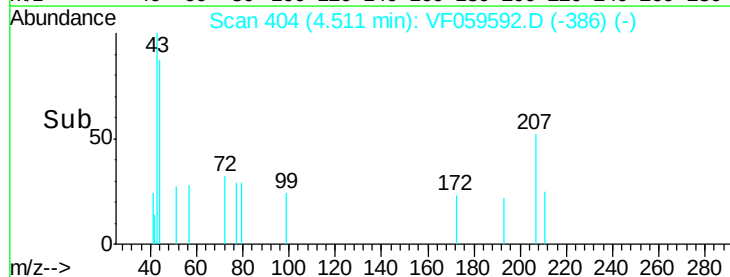
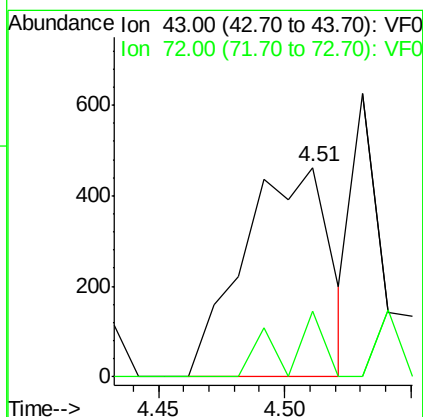
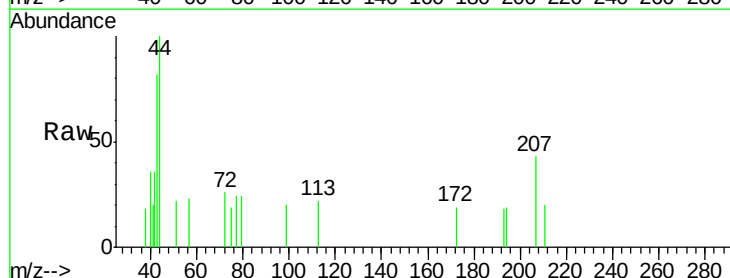
Instrument :
MSVOA_F
ClientSampleId :

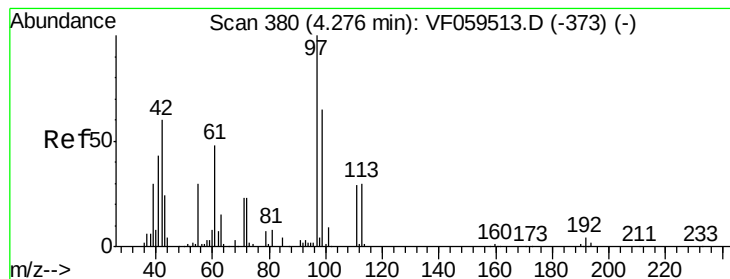
Tot Ion: 84 Resp: 10971
Ion Ratio Lower Upper
84 100
49 137.5 109.4 164.2
51 48.9 30.5 45.7#
86 64.5 47.6 71.4



#25
2-Butanone
Concen: 1.363 ug/l
RT: 4.51 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF059592.D
Acq: 20 Jul 2018 20:32

Tgt Ion: 43 Resp: 1104
Ion Ratio Lower Upper
43 100
72 31.6 14.2 21.4#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.25 min Scan# 377

Delta R.T. -0.03 min

Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

Instrument :

MSVOA_F

ClientSampleId :

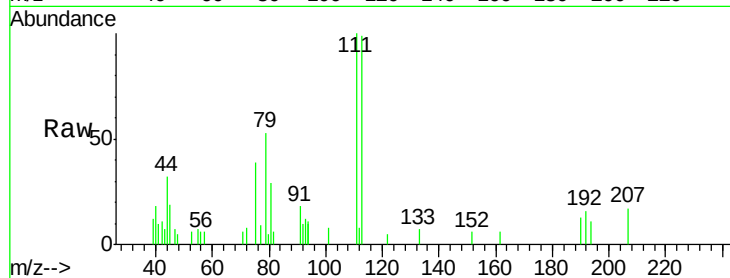
Tot Ion: 42 Resp: 643

Ion Ratio Lower Upper

42 100

72 13.2 28.7 43.1#

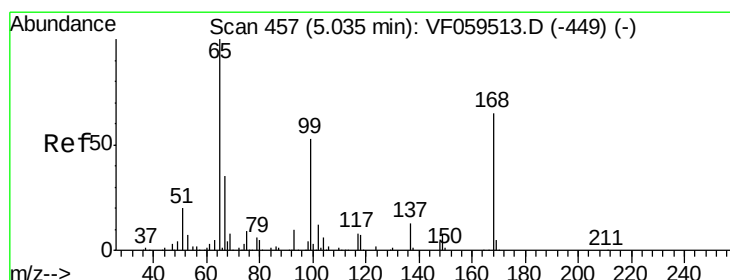
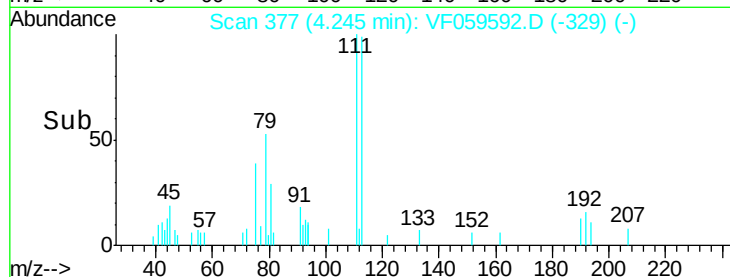
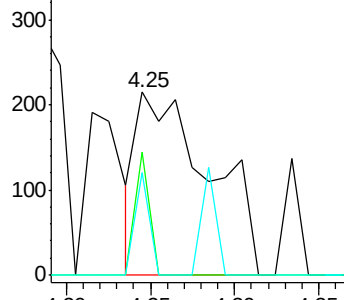
71 11.2 30.8 46.2#



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: 25.157 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.02 min

Lab File: VF059592.D

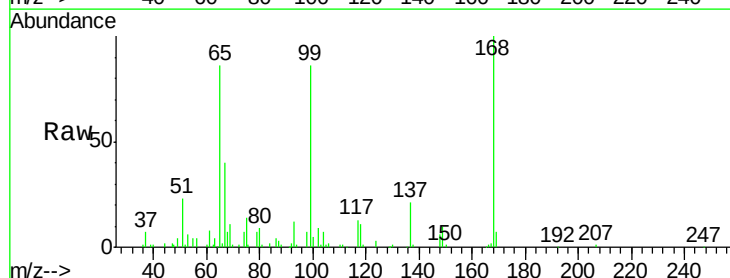
Acq: 20 Jul 2018 20:32

Tgt Ion: 65 Resp: 87773

Ion Ratio Lower Upper

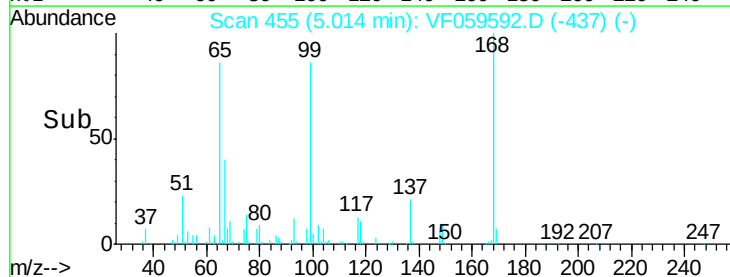
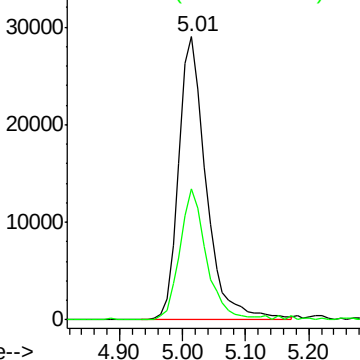
65 100

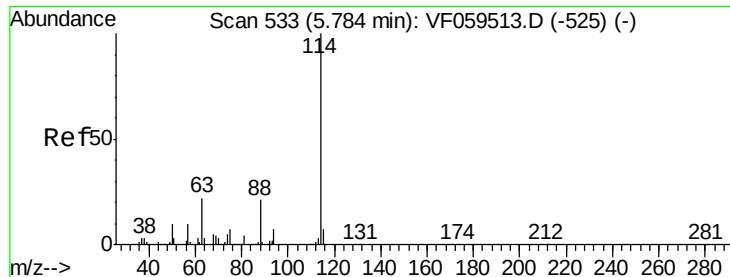
67 46.2 0.0 91.2



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: 5.76 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

Instrument :

MSVOA_F

ClientSampleId :

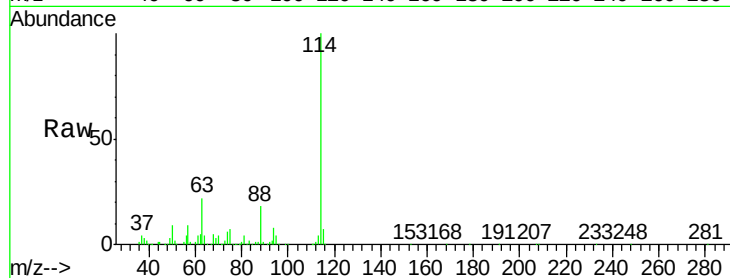
Tot Ion:114 Resp: 335715

Ion Ratio Lower Upper

114 100

63 21.9 0.0 44.8

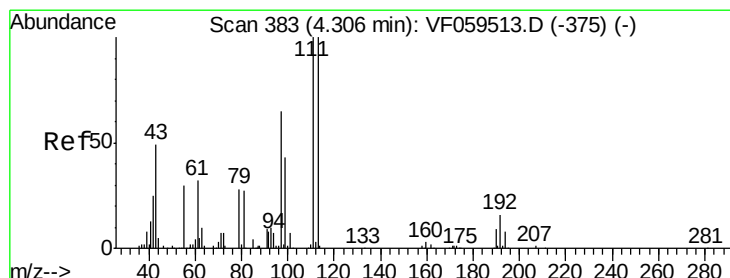
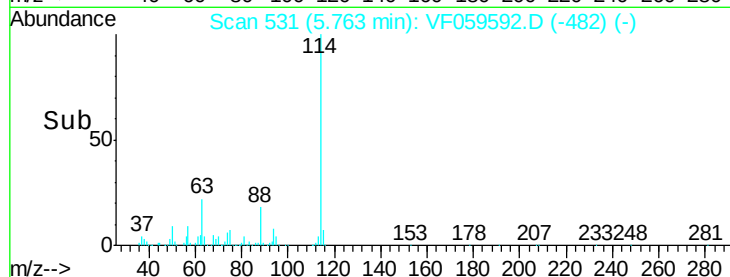
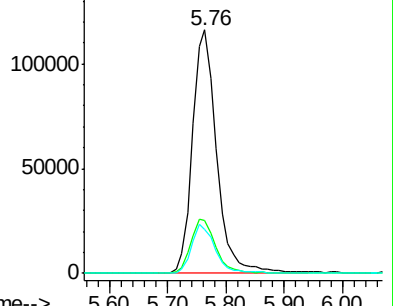
88 18.1 0.0 42.6



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: 26.277 ug/l

RT: 4.28 min Scan# 381

Delta R.T. -0.02 min

Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

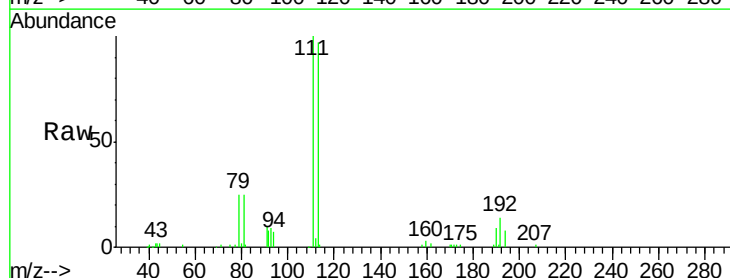
Tgt Ion:113 Resp: 76402

Ion Ratio Lower Upper

113 100

111 102.0 80.3 120.5

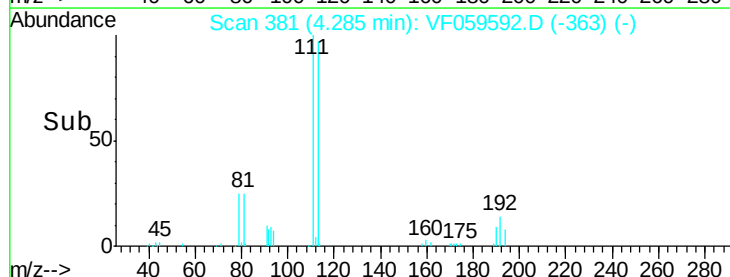
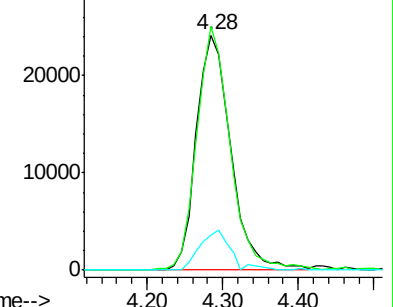
192 14.8 13.1 19.7

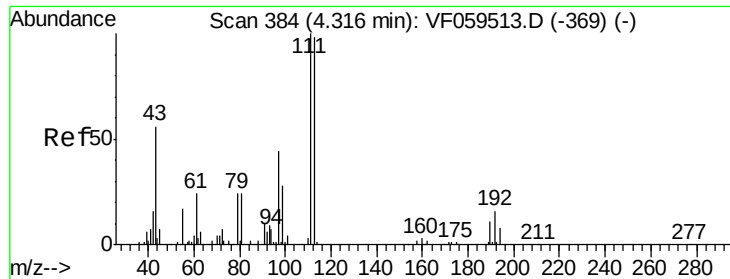


Abundance Ion 113.00 (112.70 to 113.70): V

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: 4.28 min Scan# 381

Delta R.T. -0.03 min

Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

Instrument :

MSVOA_F

ClientSampleId :

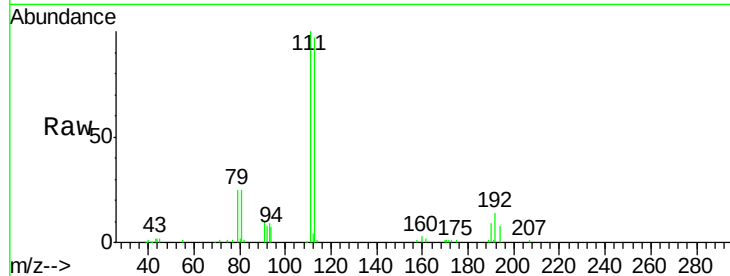
Tot Ion: 43 Resp: 583

Ion Ratio Lower Upper

43 100

61 0.0 33.7 50.5#

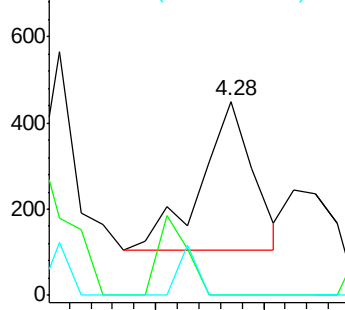
70 0.0 7.4 11.0#



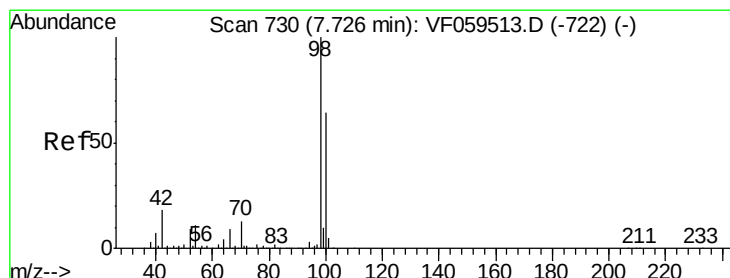
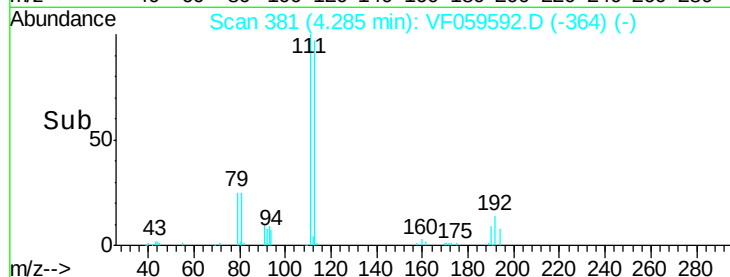
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



Time-->



#50

Toluene-d8

Concen: 22.671 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.02 min

Lab File: VF059592.D

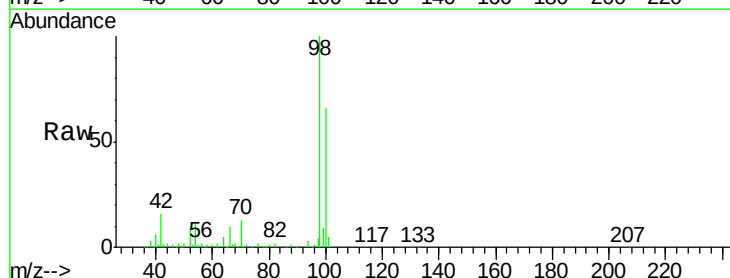
Acq: 20 Jul 2018 20:32

Tgt Ion: 98 Resp: 166041

Ion Ratio Lower Upper

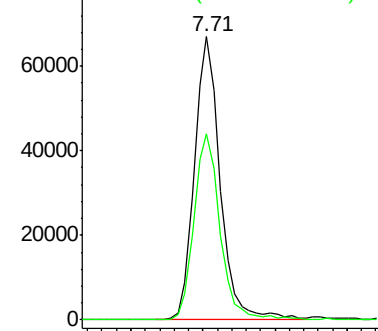
98 100

100 65.7 50.9 76.3

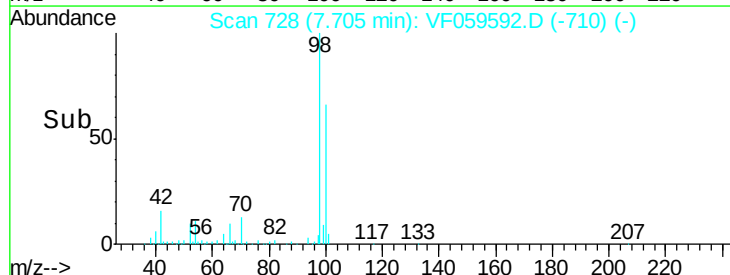


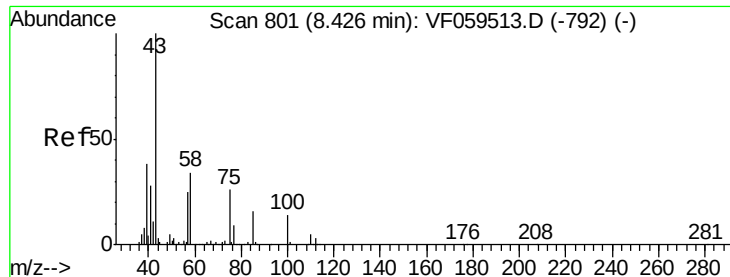
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 3.009 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.03 min

Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

Instrument :

MSVOA_F

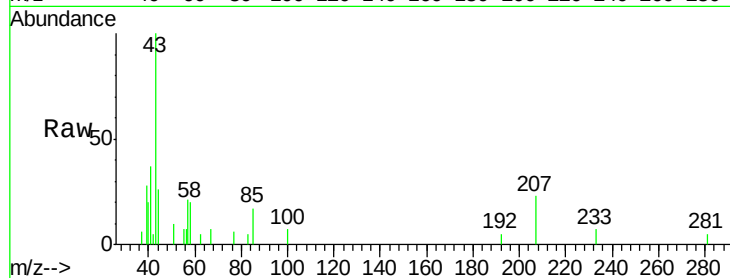
ClientSampleId :

Tot Ion: 43 Resp: 5151

Ion Ratio Lower Upper

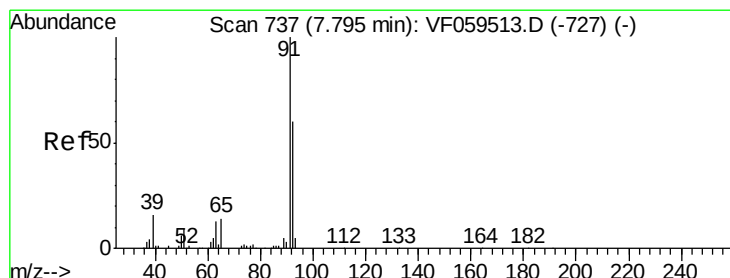
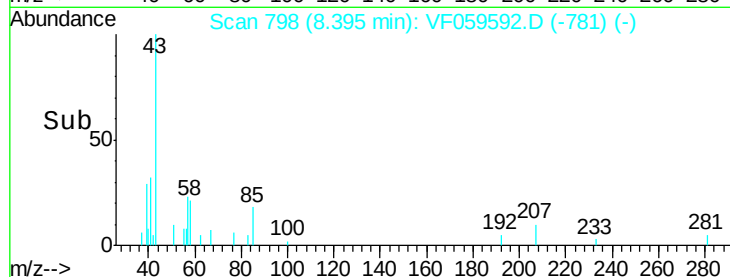
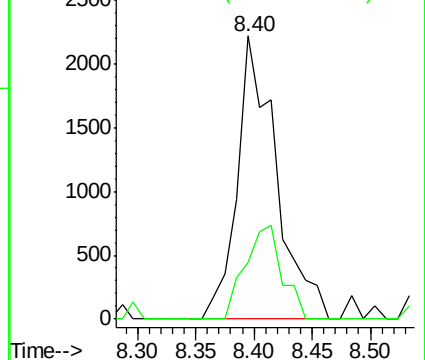
43 100

58 19.9 27.4 41.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 2.254 ug/l

RT: 7.78 min Scan# 736

Delta R.T. -0.01 min

Lab File: VF059592.D

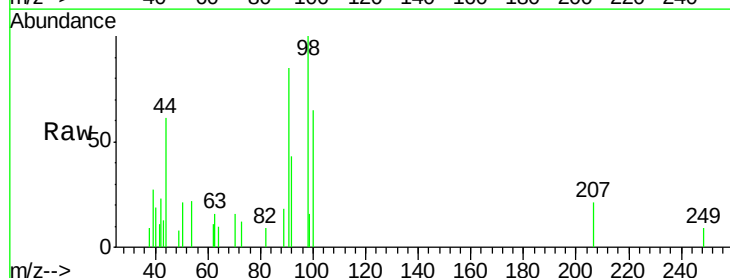
Acq: 20 Jul 2018 20:32

Tgt Ion: 63 Resp: 452

Ion Ratio Lower Upper

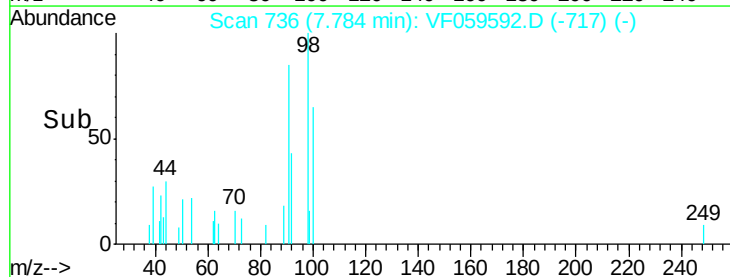
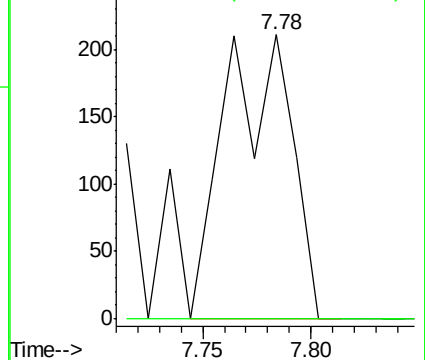
63 100

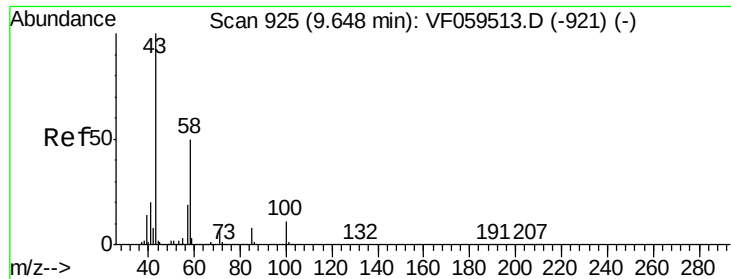
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

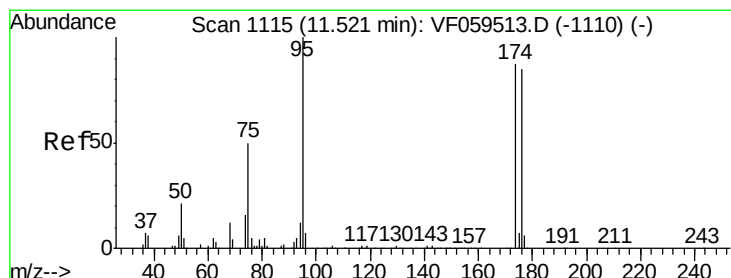
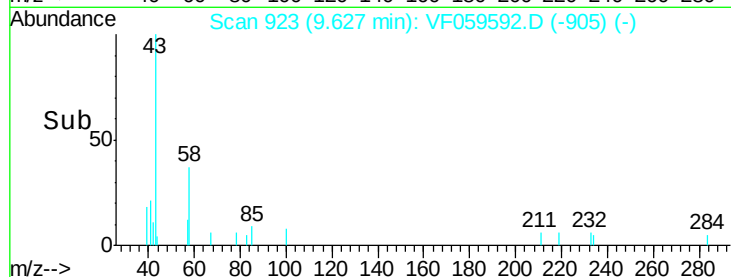
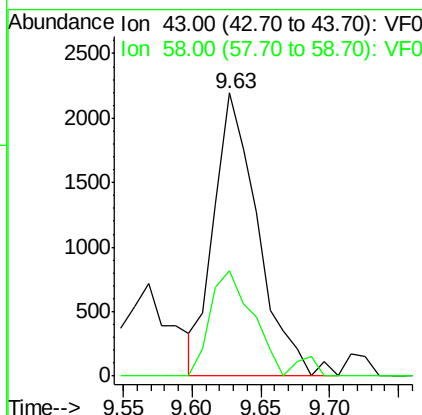
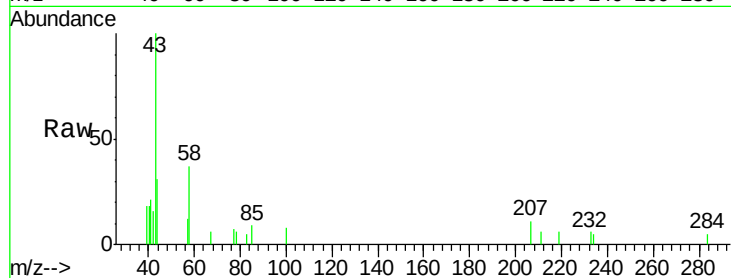




#59
2-Hexanone
Concen: 3.769 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.02 min
Lab File: VF059592.D
Acq: 20 Jul 2018 20:32

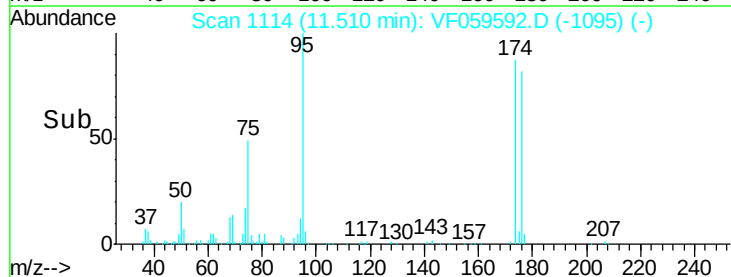
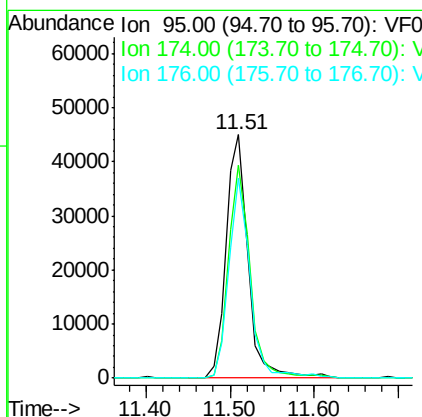
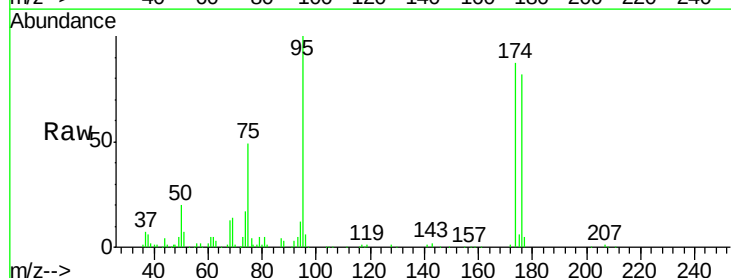
Instrument :
MSVOA_F
ClientSampleId :

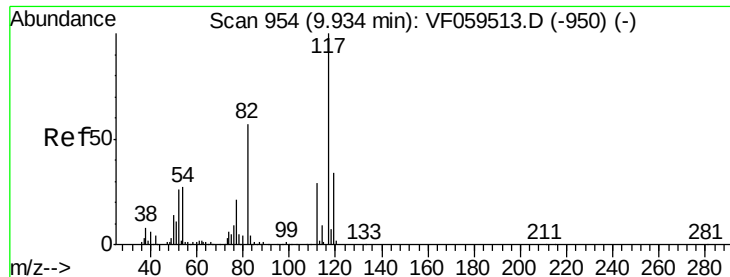
Tot Ion: 43 Resp: 4875
Ion Ratio Lower Upper
43 100
58 37.1 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 21.262 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VF059592.D
Acq: 20 Jul 2018 20:32

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

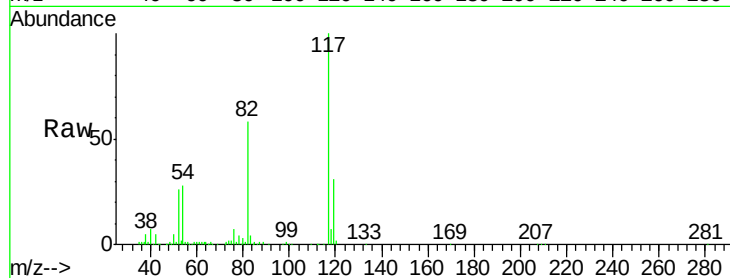




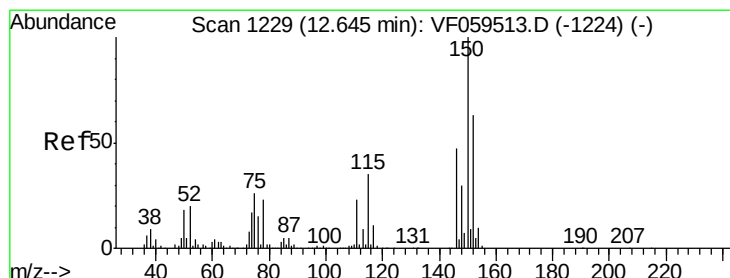
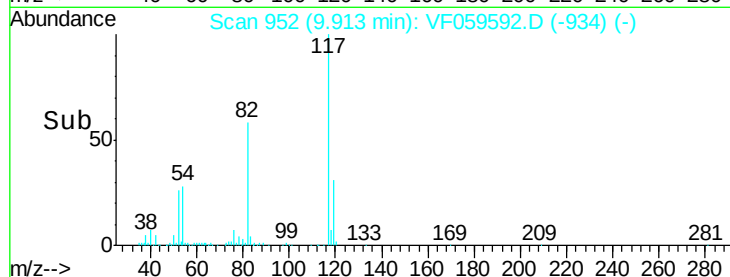
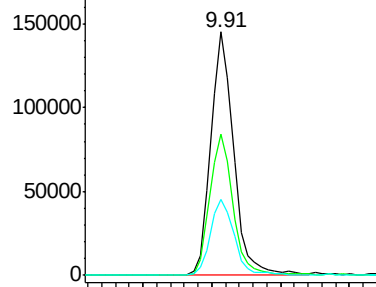
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. -0.02 min
Lab File: VF059592.D
Acq: 20 Jul 2018 20:32

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.8	46.1	69.1
119	31.0	27.2	40.8

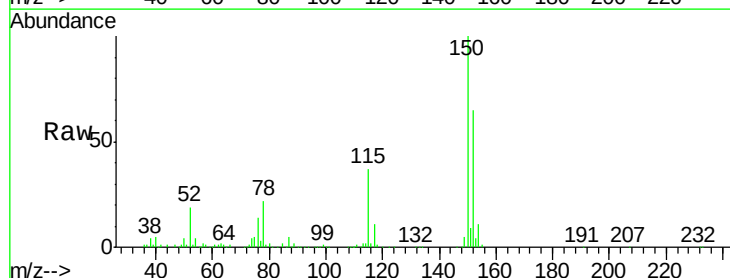


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

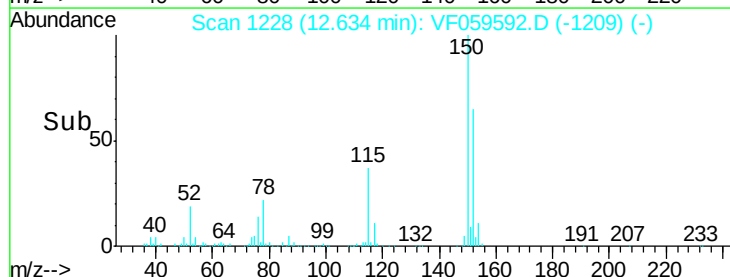
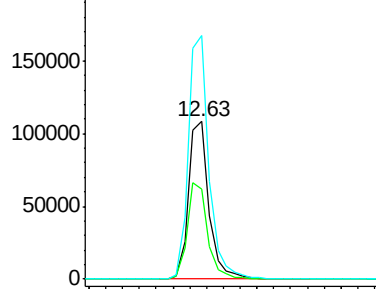


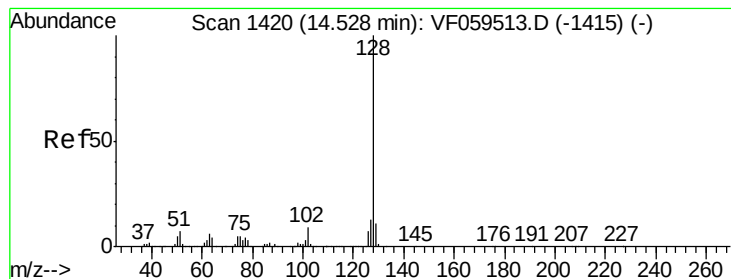
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. -0.01 min
Lab File: VF059592.D
Acq: 20 Jul 2018 20:32

Tgt 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: 3.560 ug/l

RT: 14.53 min Scan# 1420

Delta R.T. -0.00 min

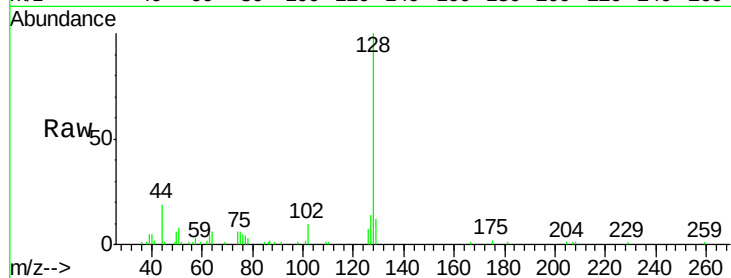
Lab File: VF059592.D

Acq: 20 Jul 2018 20:32

Instrument :

MSVOA_F

ClientSampleId :



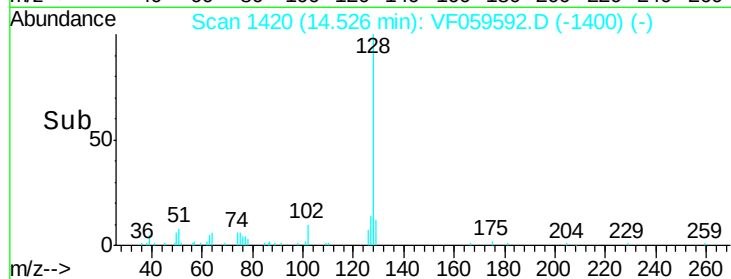
Tot Ion:128 Resp: 23665

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

