

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059335.D
 Acq On : 27 Jun 2018 13:28
 Operator : VA/AP
 Sample : J3684-03RE
 Misc : 5.69g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 27 16:04:02 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	5.03	168	255295	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	392395	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	370503	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	187934	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	131085	39.74	ug/l	0.00
Spiked Amount			Recovery	=	79.48%	
35) Dibromofluoromethane	4.29	113	128826	44.93	ug/l	0.00
Spiked Amount			Recovery	=	89.86%	
50) Toluene-d8	7.70	98	282396	39.78	ug/l	0.00
Spiked Amount			Recovery	=	79.56%	
62) 4-Bromofluorobenzene	11.50	95	152483	38.08	ug/l	0.00
Spiked Amount			Recovery	=	76.16%	

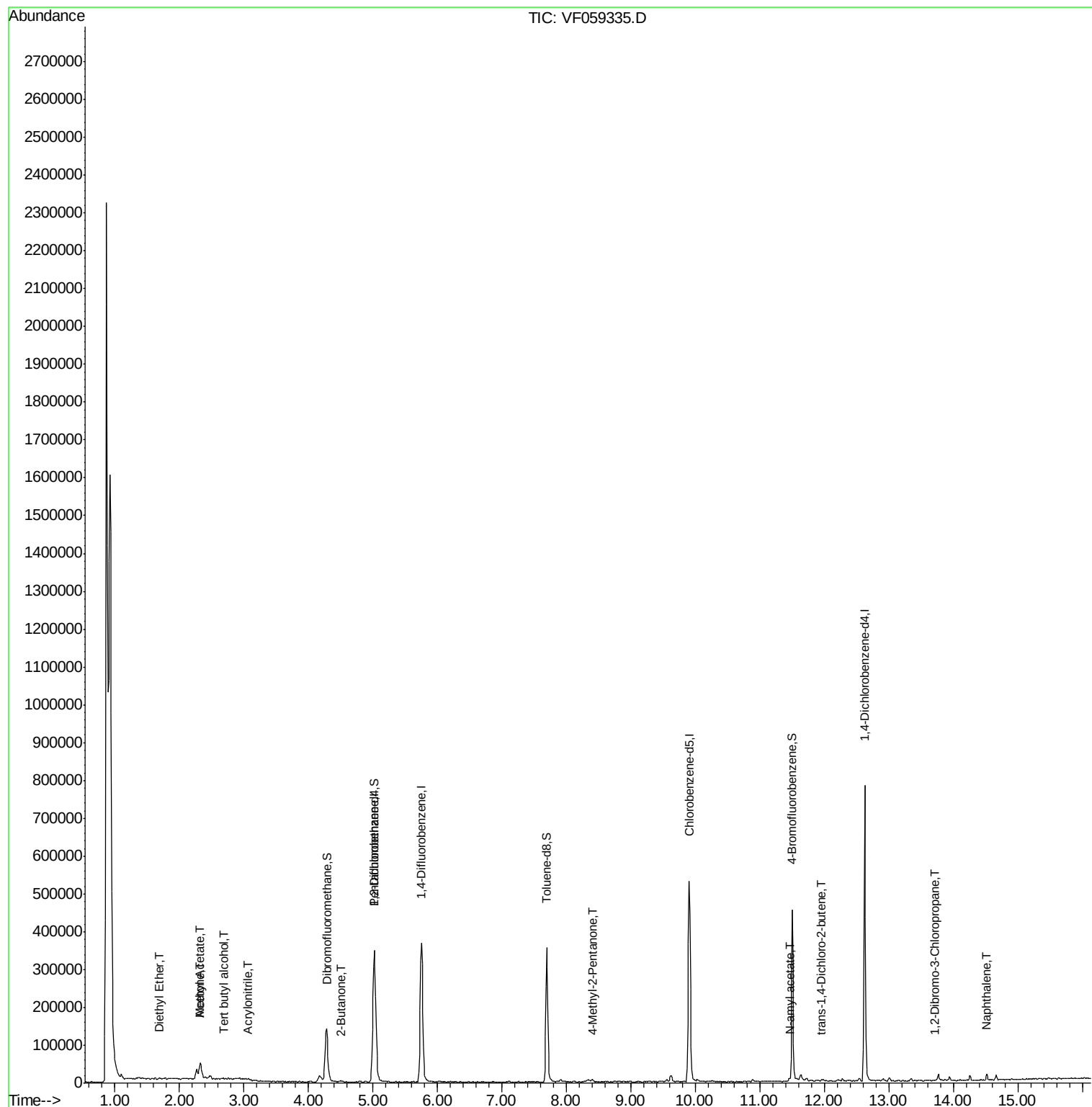
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.33	94	179	Below Cal		93
8) Diethyl Ether	1.68	74	1113	1.42	ug/l	76
11) Tert butyl alcohol	2.68	59	1489	6.78	ug/l #	1
13) Acrolein	2.07	56	938	Below Cal		97
15) Acrylonitrile	3.06	53	815	2.11	ug/l #	26
16) Acetone	2.32	43	54869	58.81	ug/l	100
18) Methyl Acetate	2.32	43	54869	36.54	ug/l #	61
20) Methylene Chloride	2.26	84	10791	Below Cal		90
25) 2-Butanone	4.50	43	5901	3.20	ug/l	92
29) Tetrahydrofuran	4.26	42	1383	Below Cal #		77
37) Ethyl Acetate	4.29	43	1017	Below Cal #		26
49) 1,4-Dioxane	7.07	88	69	Below Cal #		1
51) 4-Methyl-2-Pentanone	8.41	43	5259	2.49	ug/l	99
59) 2-Hexanone	9.62	43	14430	Below Cal		84
74) N-amyl acetate	11.46	43	5134	1.29	ug/l #	93
81) trans-1,4-Dichloro-2-buten	11.95	75	1468	1.18	ug/l #	81
87) 1,3-Dichlorobenzene	12.55	146	1946	Below Cal		87
92) 1,2-Dibromo-3-Chloropropan	13.71	75	730	1.19	ug/l #	38
95) Naphthalene	14.52	128	10803	1.27	ug/l #	91

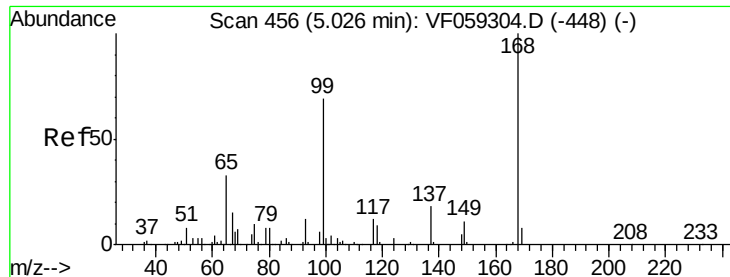
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059335.D

Acq: 27 Jun 2018 13:28

Instrument :

MSVOA_F

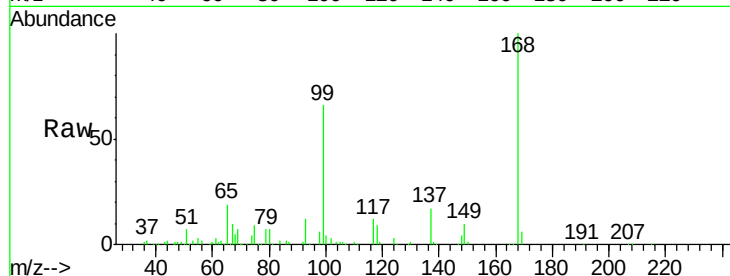
ClientSampleId :

Tot Ion:168 Resp: 255295

Ion Ratio Lower Upper

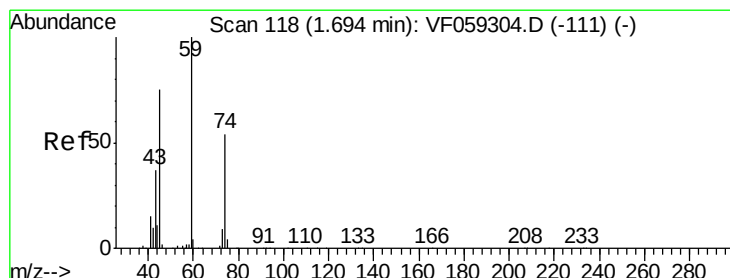
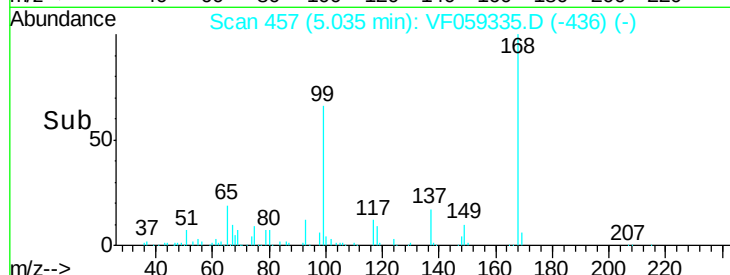
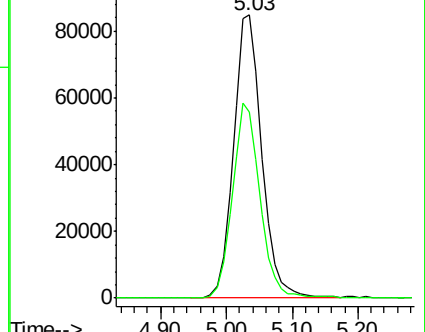
168 100

99 65.8 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#8

Diethyl Ether

Concen: 1.42 ug/l

RT: 1.68 min Scan# 117

Delta R.T. -0.01 min

Lab File: VF059335.D

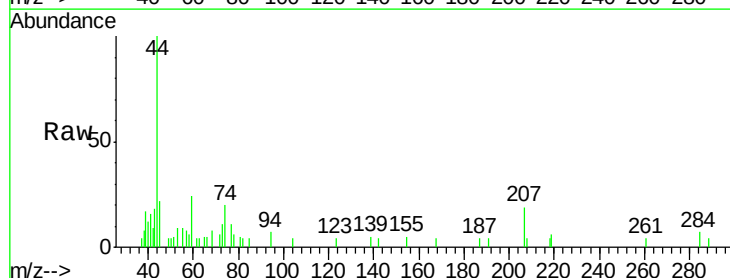
Acq: 27 Jun 2018 13:28

Tgt Ion: 74 Resp: 1113

Ion Ratio Lower Upper

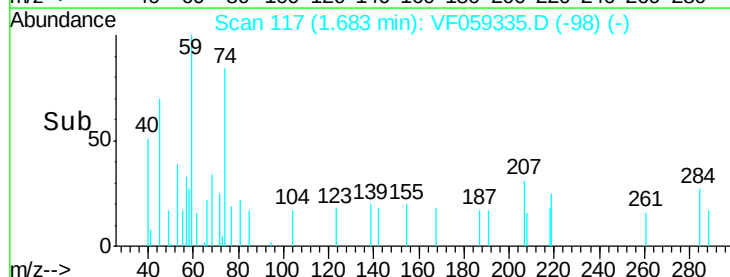
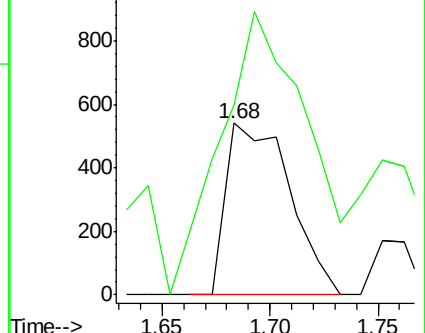
74 100

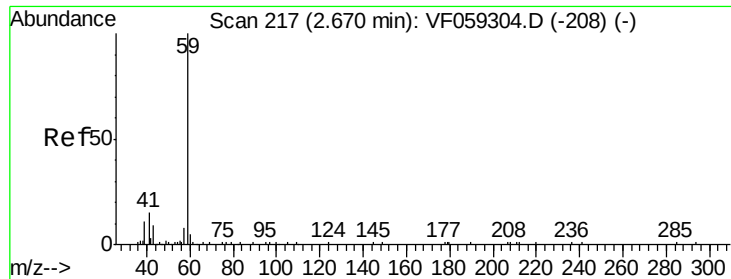
45 110.9 70.0 210.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

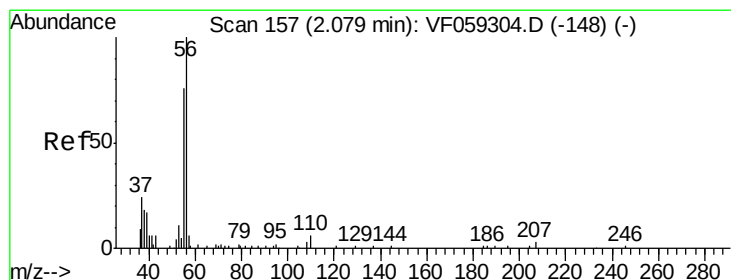
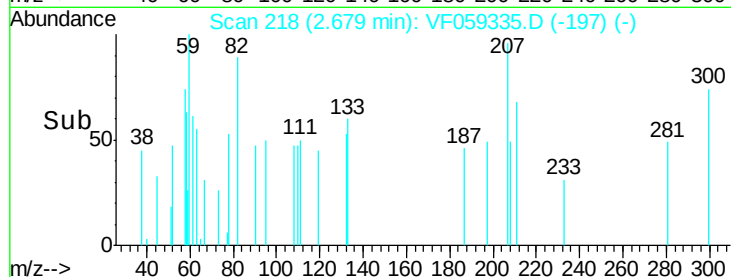
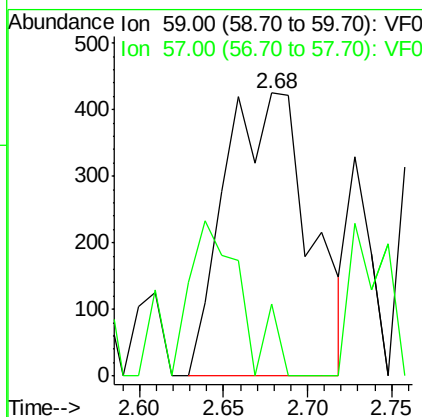
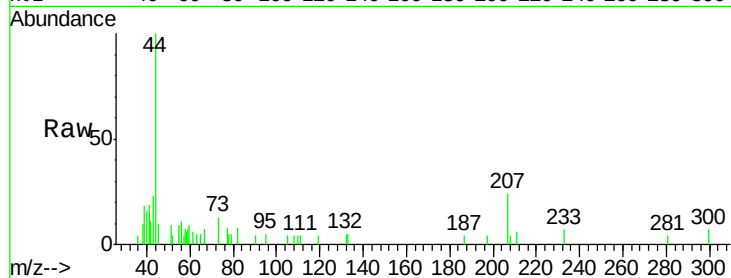




#11
Tert butyl alcohol
Concen: 6.78 ua/l
RT: 2.68 min Scan# 218
Delta R.T. 0.01 min
Lab File: VF059335.D
Acq: 27 Jun 2018 13:28

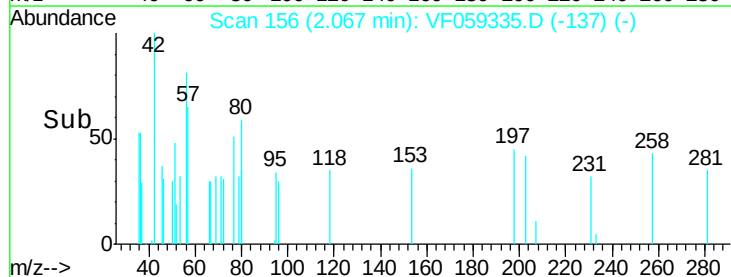
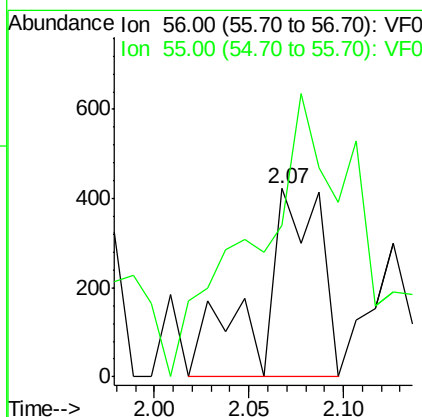
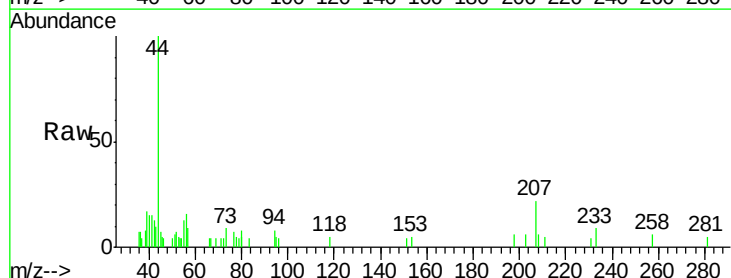
Instrument :
MSVOA_F
ClientSampleId :

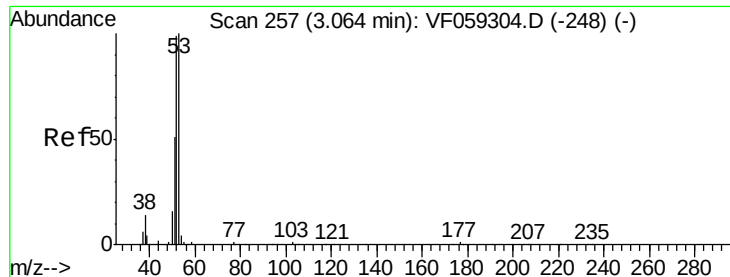
Tot Ion: 59 Resp: 1489
Ion Ratio Lower Upper
59 100
57 66.8 11.0 16.4#



#13
Acrolein
Concen: Below Cal
RT: 2.07 min Scan# 156
Delta R.T. -0.01 min
Lab File: VF059335.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 56 Resp: 938
Ion Ratio Lower Upper
56 100
55 80.6 62.4 93.6





#15

Acrylonitrile

Concen: 2.11 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.00 min

Lab File: VF059335.D

Acq: 27 Jun 2018 13:28

Instrument :

MSVOA_F

ClientSampleId :

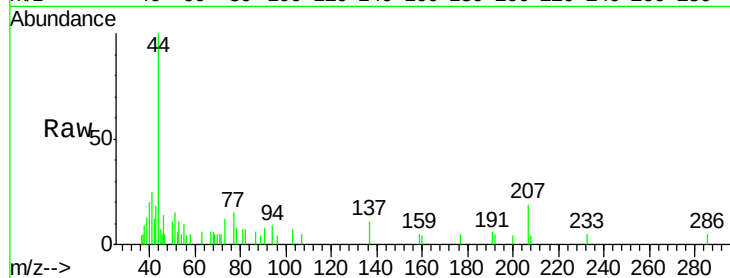
Tot Ion: 53 Resp: 815

Ion Ratio Lower Upper

53 100

52 53.6 79.2 118.8#

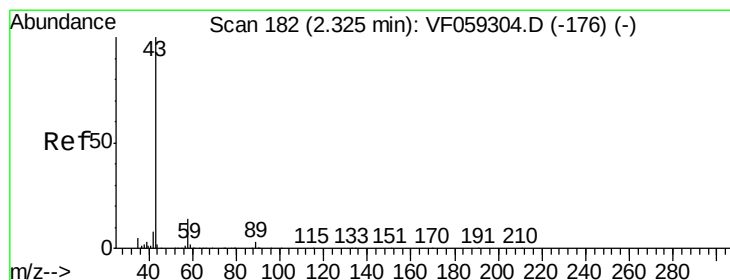
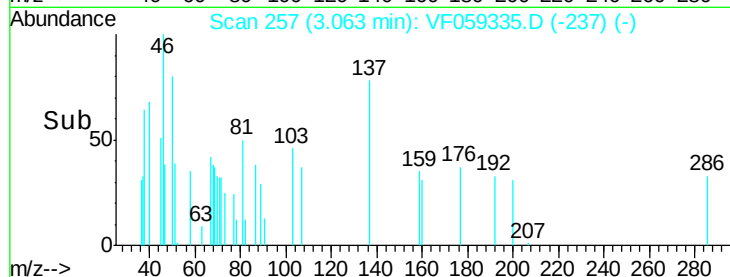
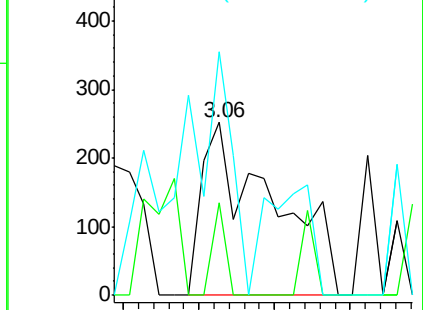
51 140.9 40.9 61.3#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 58.81 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059335.D

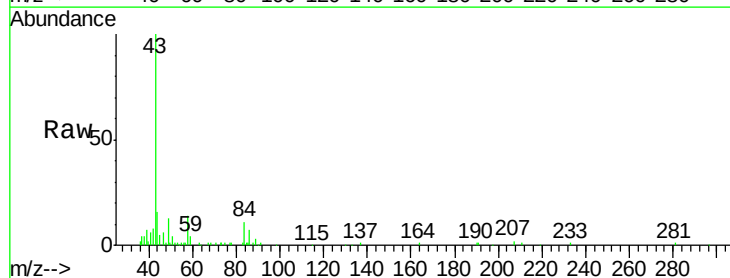
Acq: 27 Jun 2018 13:28

Tgt Ion: 43 Resp: 54869

Ion Ratio Lower Upper

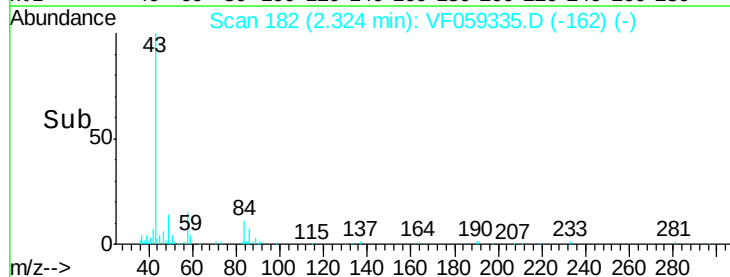
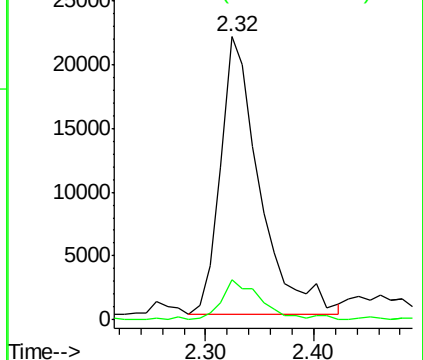
43 100

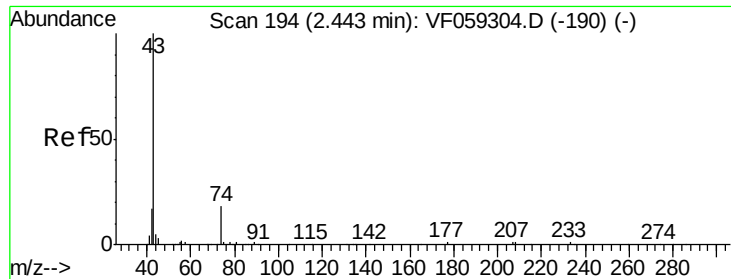
58 14.3 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

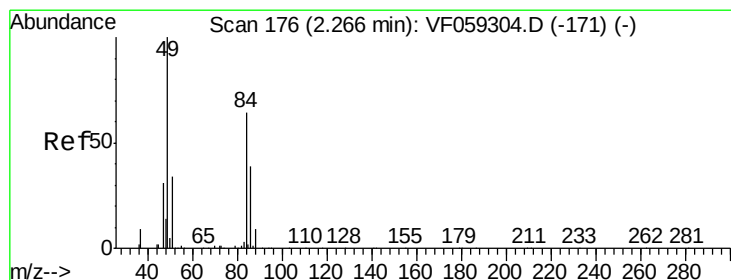
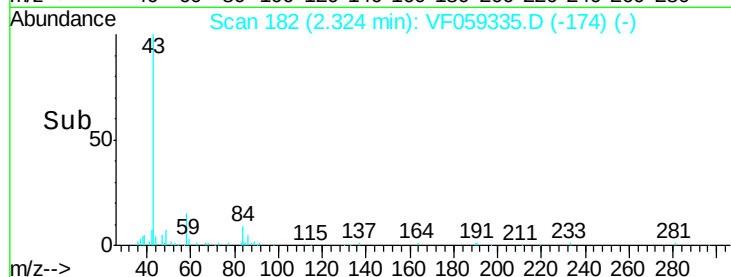
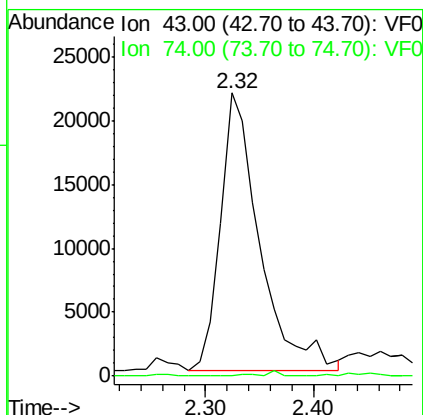
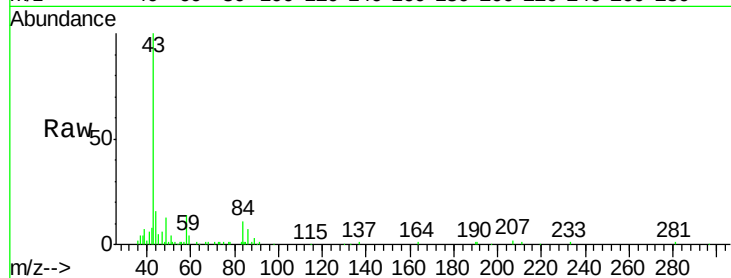




#18
Methyl Acetate
Concen: 36.54 ug/l
RT: 2.32 min Scan# 182
Delta R.T. -0.12 min
Lab File: VF059335.D
Acq: 27 Jun 2018 13:28

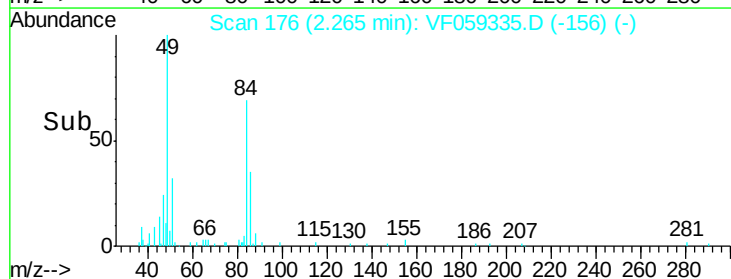
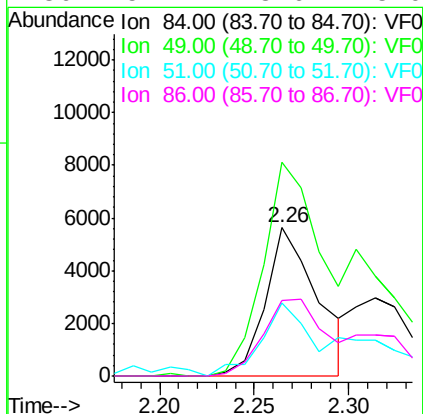
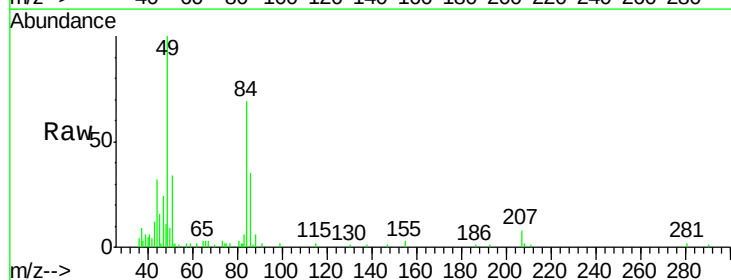
Instrument :
MSVOA_F
ClientSampleId :

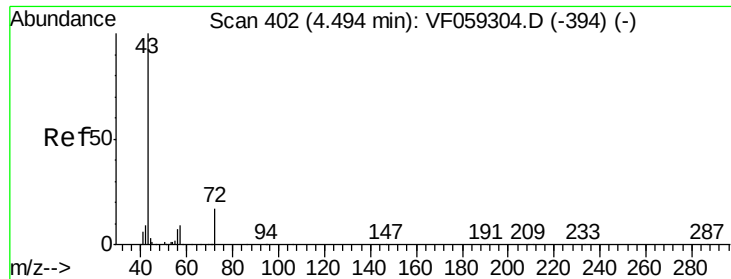
Tot Ion: 43 Resp: 54869
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059335.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 84 Resp: 10791
Ion Ratio Lower Upper
84 100
49 144.4 126.5 189.7
51 49.7 42.9 64.3
86 51.2 48.6 73.0





#25

2-Butanone

Concen: 3.20 ug/l

RT: 4.50 min Scan# 403

Delta R.T. 0.01 min

Lab File: VF059335.D

Acq: 27 Jun 2018 13:28

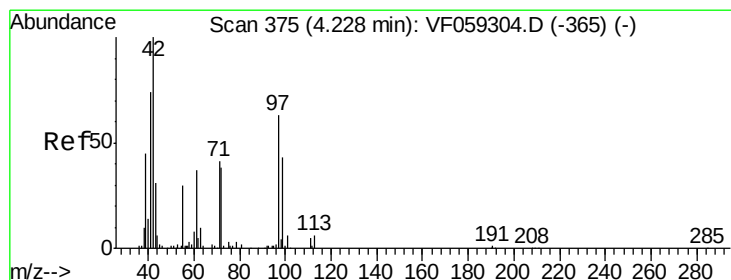
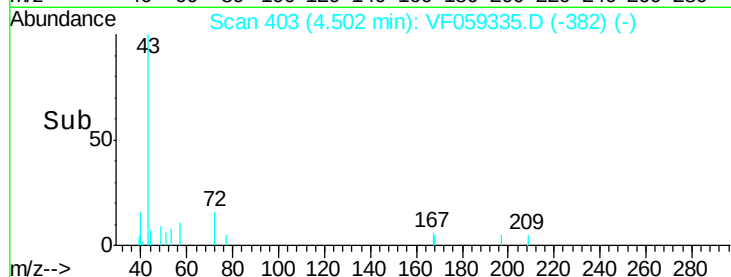
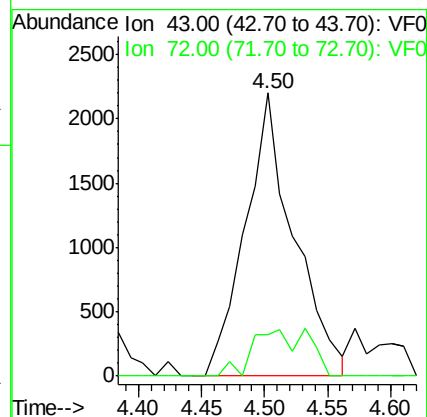
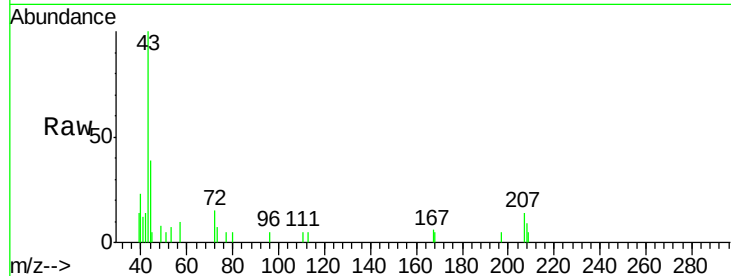
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 5901

Ion Ratio Lower Upper

43 100

72 14.5 14.4 21.6



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.26 min Scan# 378

Delta R.T. 0.03 min

Lab File: VF059335.D

Acq: 27 Jun 2018 13:28

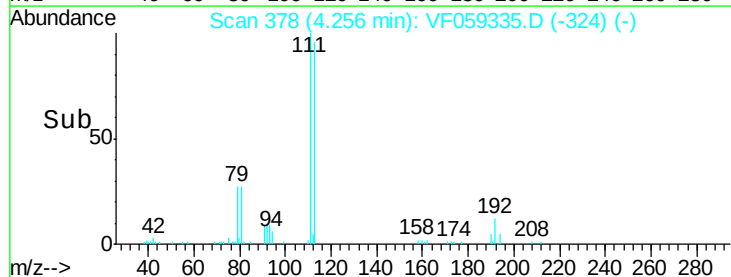
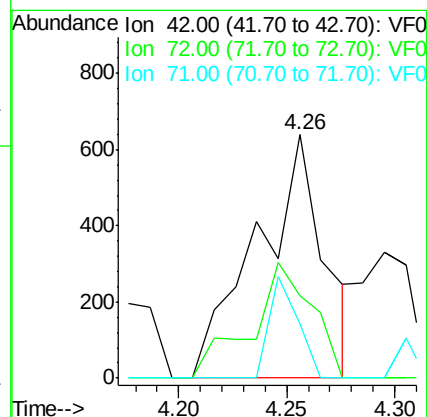
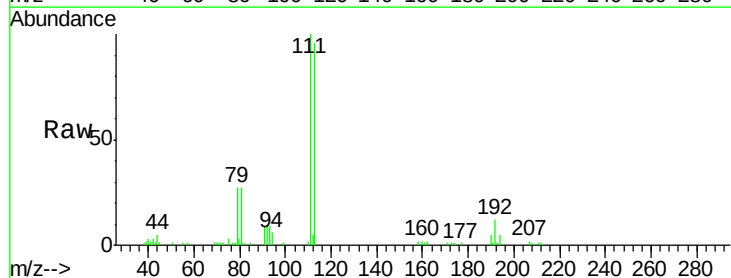
Tgt Ion: 42 Resp: 1383

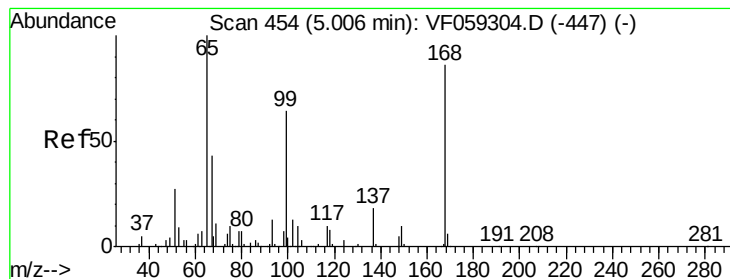
Ion Ratio Lower Upper

42 100

72 42.7 30.5 45.7

71 17.5 32.5 48.7#





#33

1,2-Dichloroethane-d4

Concen: 39.74 ug/l

RT: 5.01 min Scan# 455

Delta R.T. 0.01 min

Lab File: VF059335.D

Acq: 27 Jun 2018 13:28

Instrument :

MSVOA_F

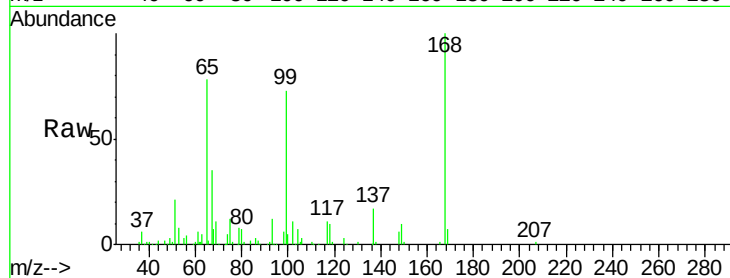
ClientSampleId :

Tot Ion: 65 Resp: 131085

Ion Ratio Lower Upper

65 100

67 45.0 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

50000

40000

30000

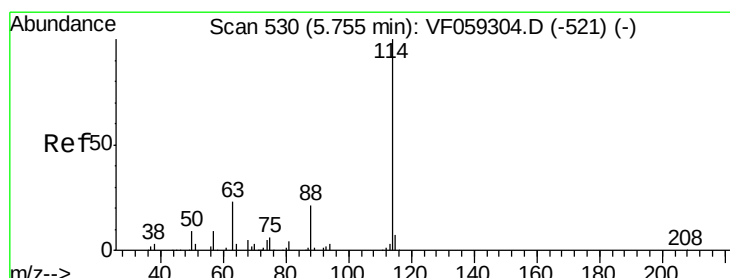
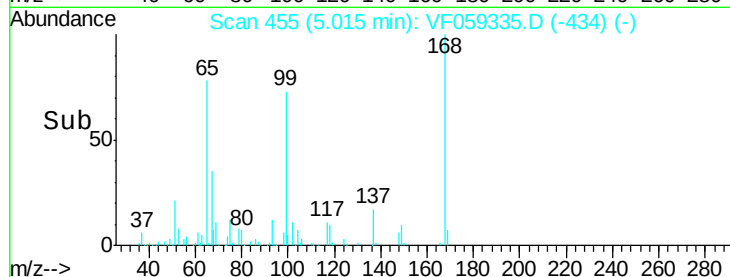
20000

10000

0

Time-->

4.90 5.01 5.10 5.20



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.75 min Scan# 530

Delta R.T. -0.00 min

Lab File: VF059335.D

Acq: 27 Jun 2018 13:28

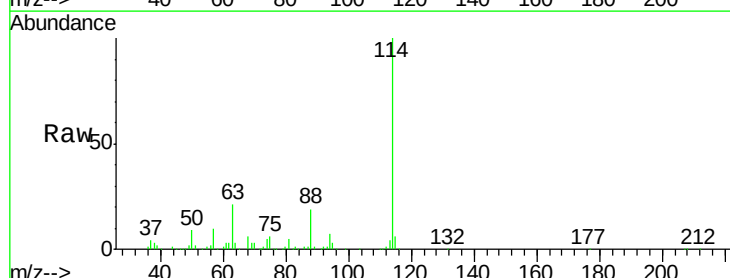
Tgt Ion: 114 Resp: 392395

Ion Ratio Lower Upper

114 100

63 21.3 0.0 45.8

88 19.2 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

200000

150000

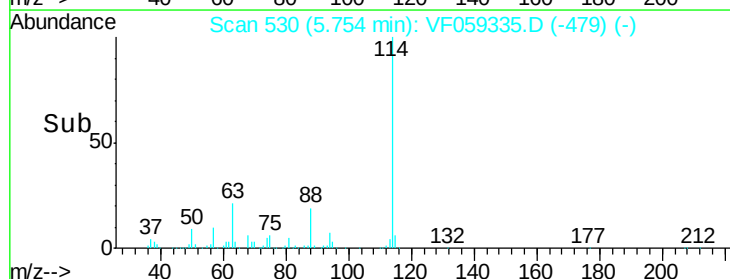
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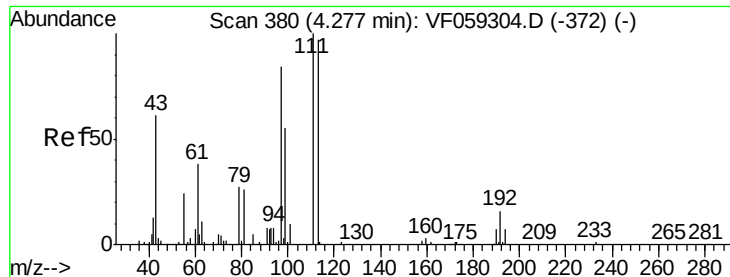
50000

0

Time-->

5.60 5.70 5.80 5.90

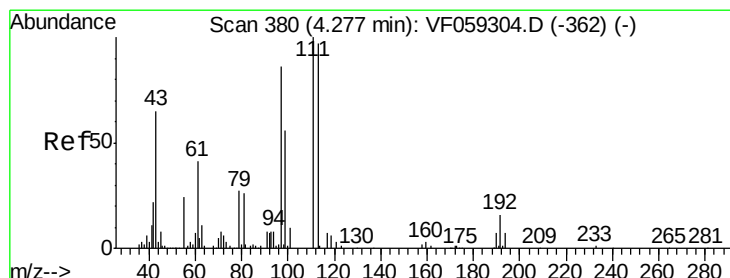
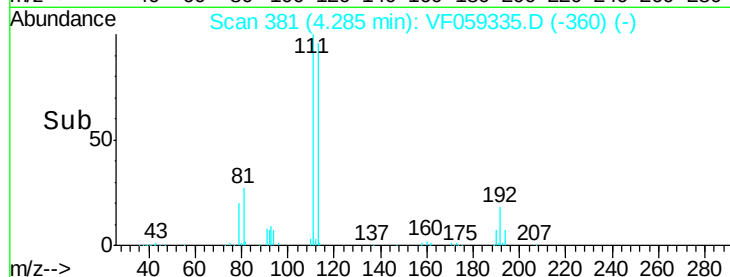
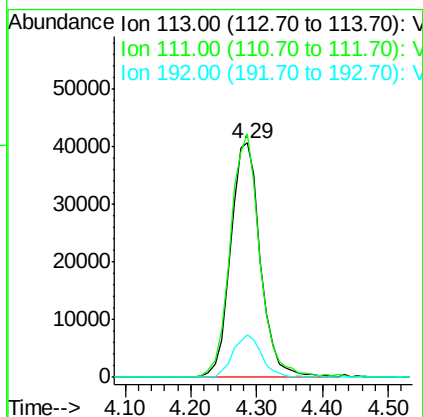
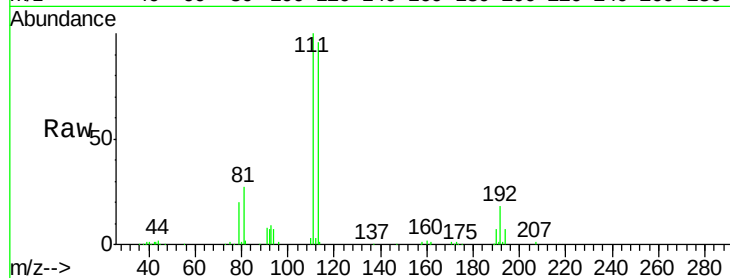




#35
Dibromofluoromethane
Concen: 44.93 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.01 min
Lab File: VF059335.D
Acq: 27 Jun 2018 13:28

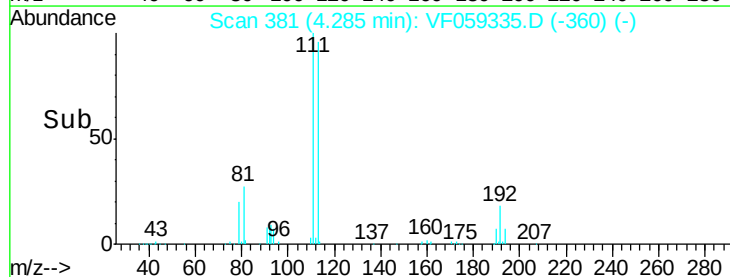
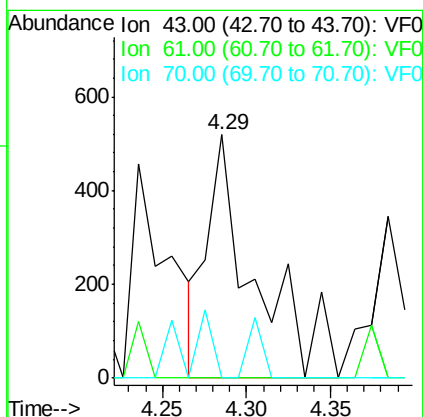
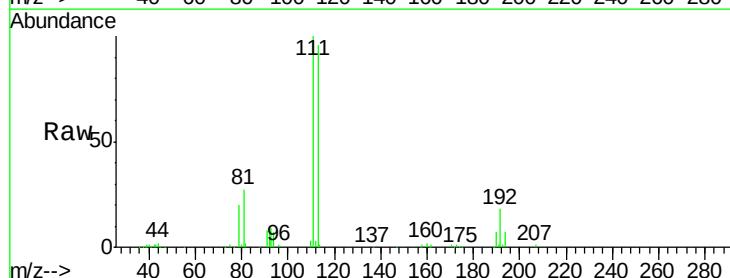
Instrument :
MSVOA_F
ClientSampleId :

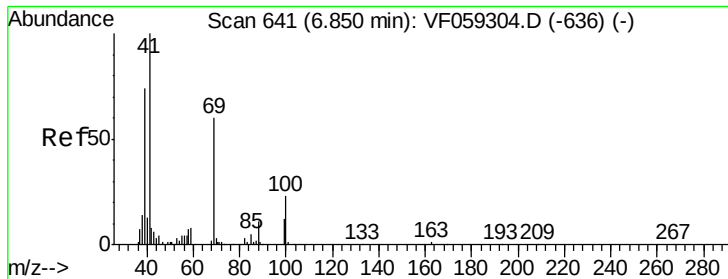
Tot Ion:113 Resp: 128826
Ion Ratio Lower Upper
113 100
111 104.0 82.1 123.1
192 18.3 13.0 19.6



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.29 min Scan# 381
Delta R.T. 0.01 min
Lab File: VF059335.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 43 Resp: 1017
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#

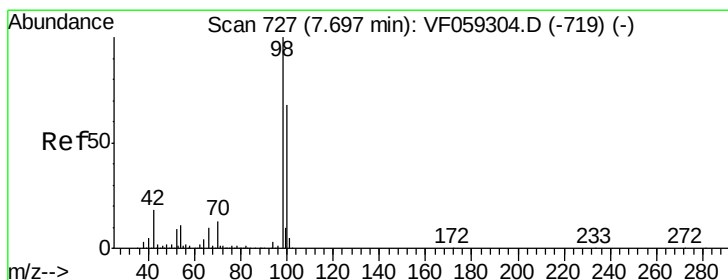
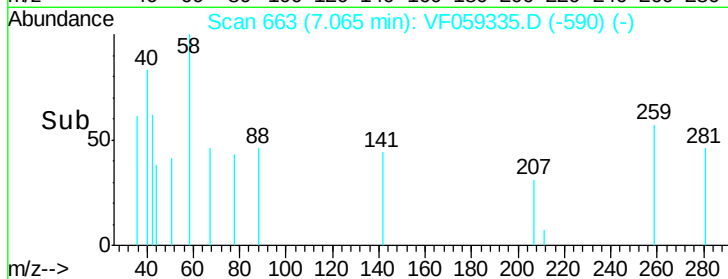
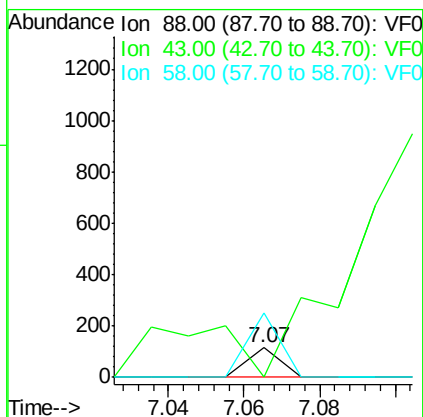
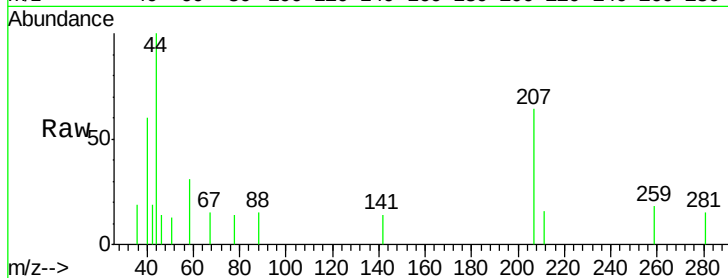




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.07 min Scan# 663
Delta R.T. 0.22 min
Lab File: VF059335.D
Acq: 27 Jun 2018 13:28

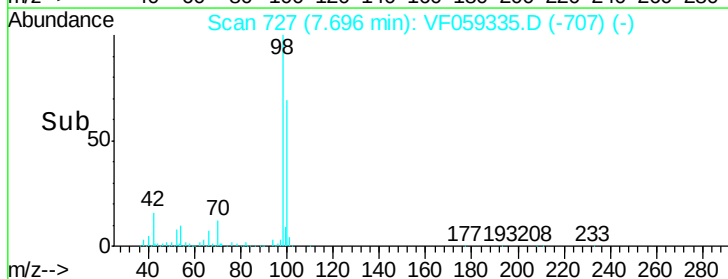
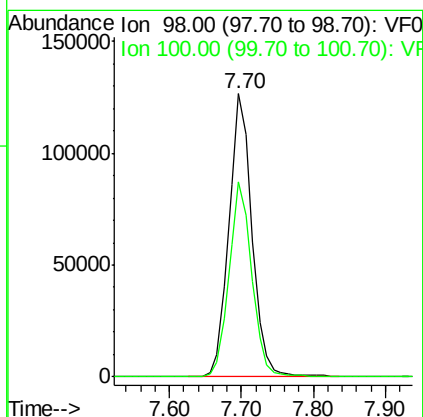
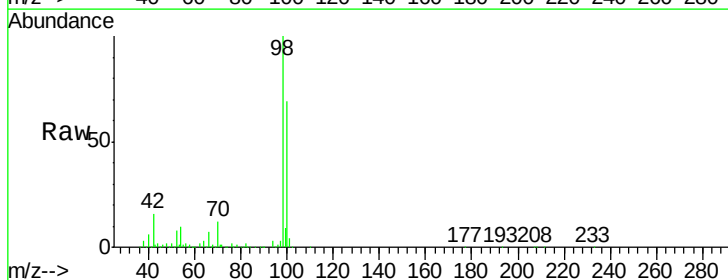
Instrument :
MSVOA_F
ClientSampleId :

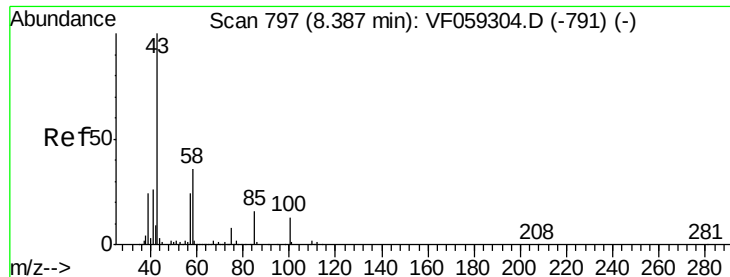
Tot Ion: 88 Resp: 69
Ion Ratio Lower Upper
88 100
43 0.0 50.6 75.8#
58 215.5 46.6 69.8#



#50
Toluene-d8
Concen: 39.78 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.00 min
Lab File: VF059335.D
Acq: 27 Jun 2018 13:28

Tgt Ion: 98 Resp: 282396
Ion Ratio Lower Upper
98 100
100 69.0 54.6 82.0





#51

4-Methyl-2-Pentanone

Concen: 2.49 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF059335.D

Acq: 27 Jun 2018 13:28

Instrument :

MSVOA_F

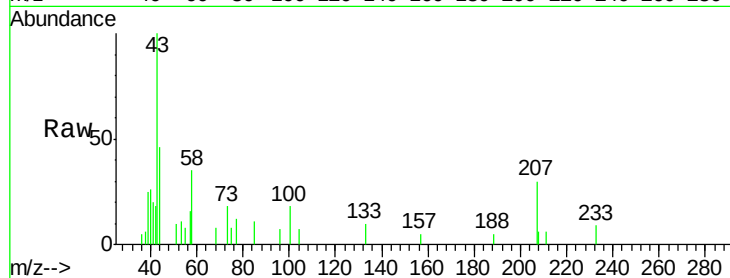
ClientSampleId :

Tot Ion: 43 Resp: 5259

Ion Ratio Lower Upper

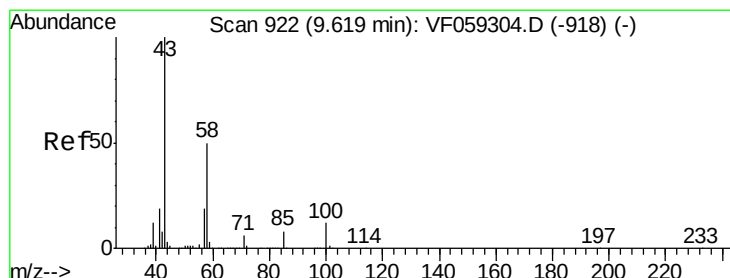
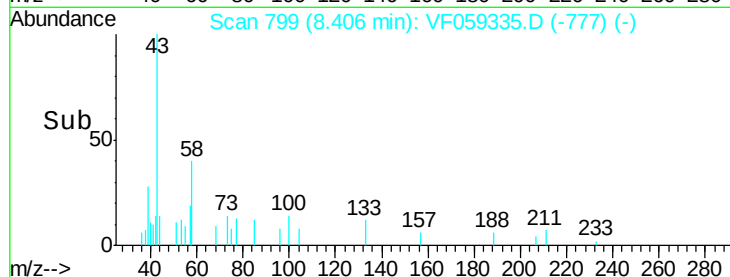
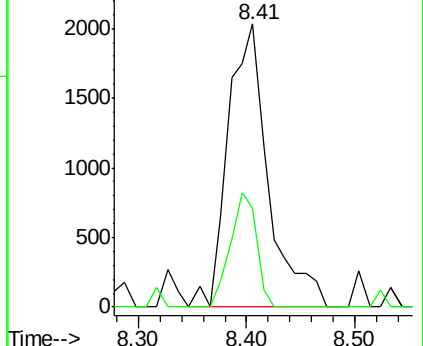
43 100

58 35.1 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: Below Cal

RT: 9.62 min Scan# 922

Delta R.T. -0.00 min

Lab File: VF059335.D

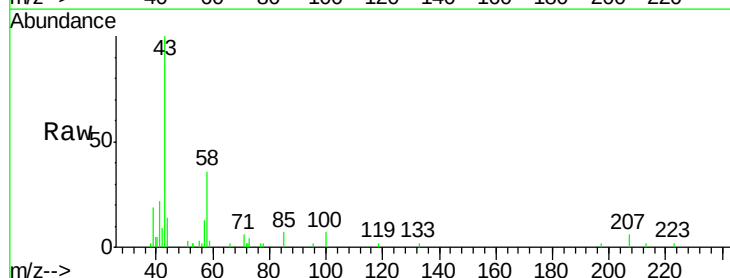
Acq: 27 Jun 2018 13:28

Tgt Ion: 43 Resp: 14430

Ion Ratio Lower Upper

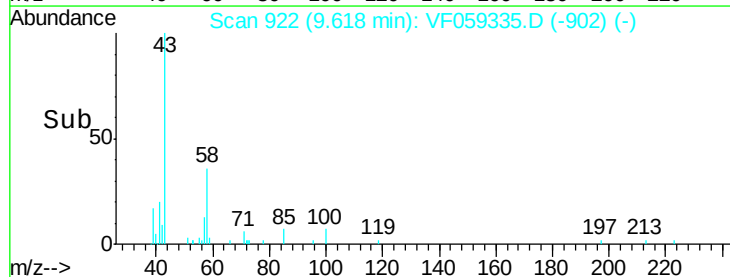
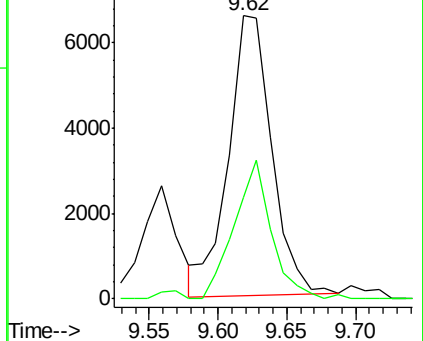
43 100

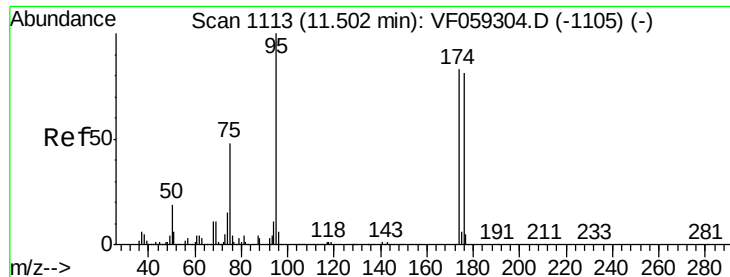
58 36.1 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 38.08 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059335.D

Acq: 27 Jun 2018 13:28

Instrument :

MSVOA_F

ClientSampleId :

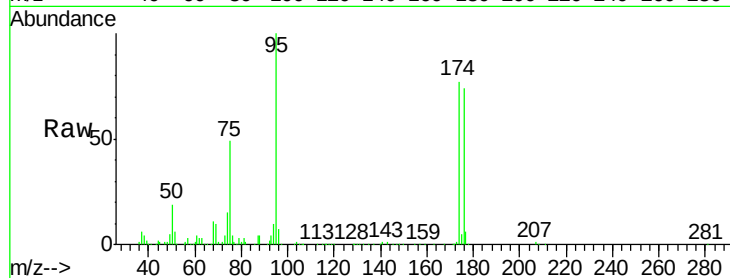
Tot Ion: 95 Resp: 152483

Ion Ratio Lower Upper

95 100

174 77.4 0.0 165.2

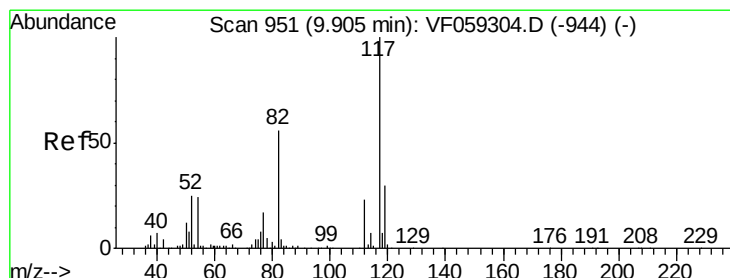
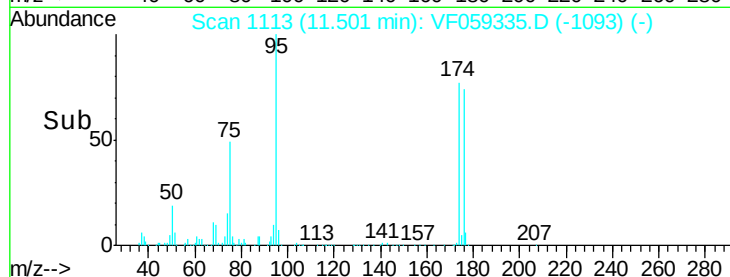
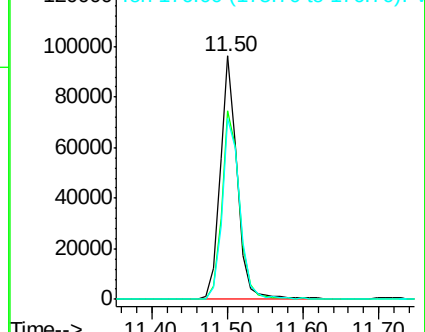
176 74.3 0.0 161.0



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: 50.00 ug/l

RT: 9.90 min Scan# 951

Delta R.T. -0.00 min

Lab File: VF059335.D

Acq: 27 Jun 2018 13:28

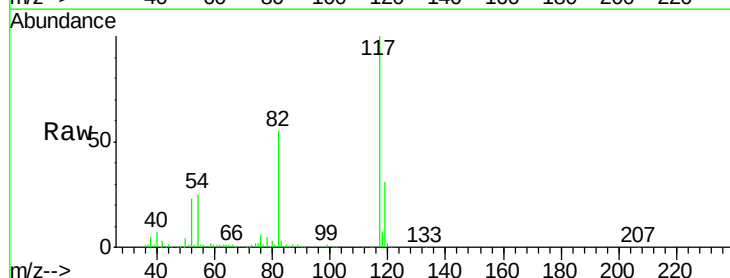
Tgt Ion: 117 Resp: 370503

Ion Ratio Lower Upper

117 100

82 55.2 44.6 66.8

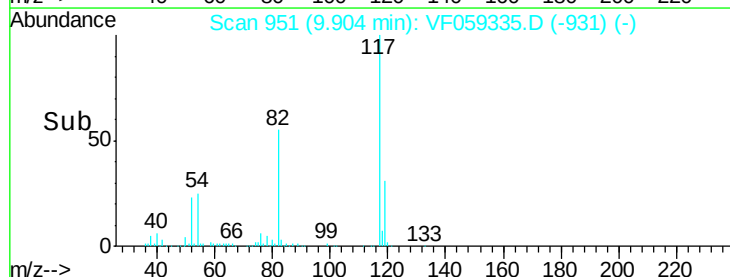
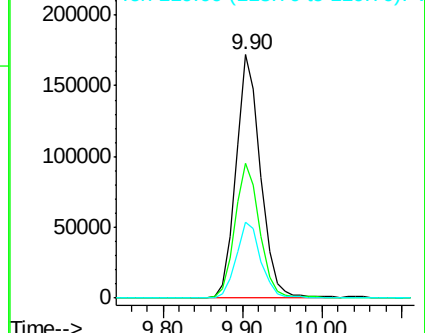
119 31.1 24.1 36.1

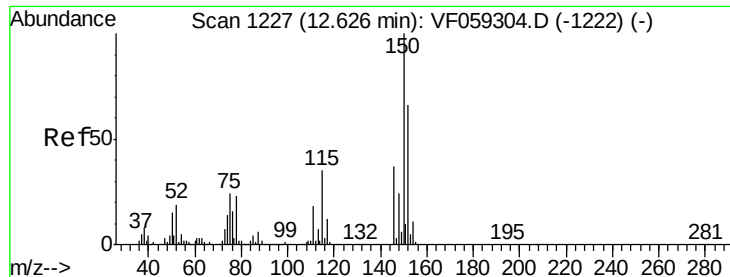


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



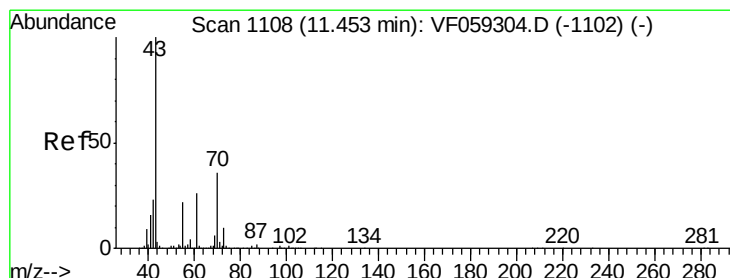
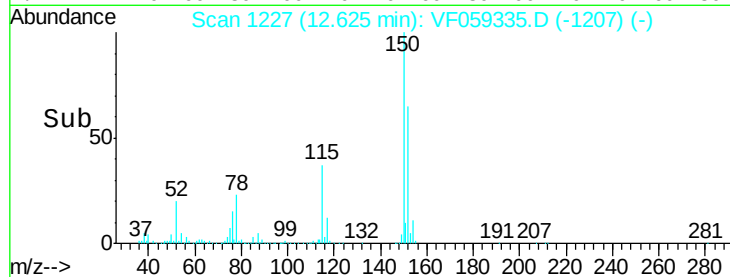
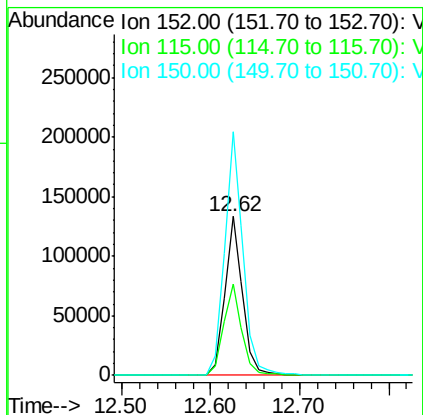
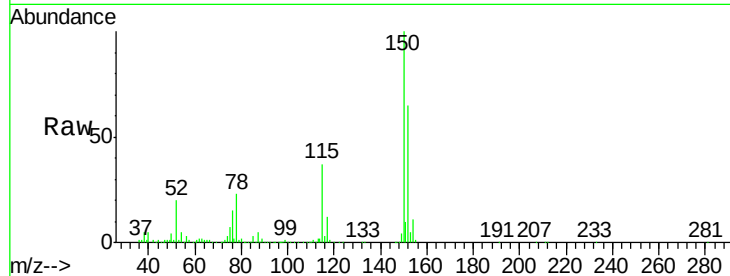


#72

1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059335.D
Acq: 27 Jun 2018 13:28

Instrument :
MSVOA_F
ClientSampleId :

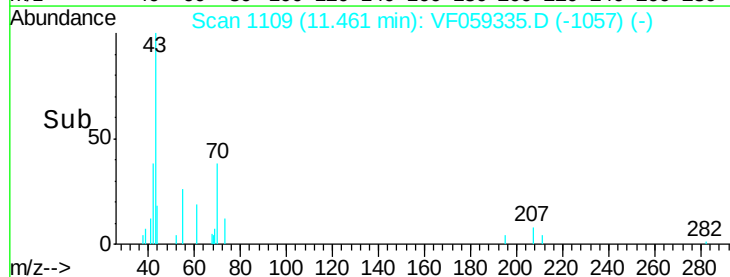
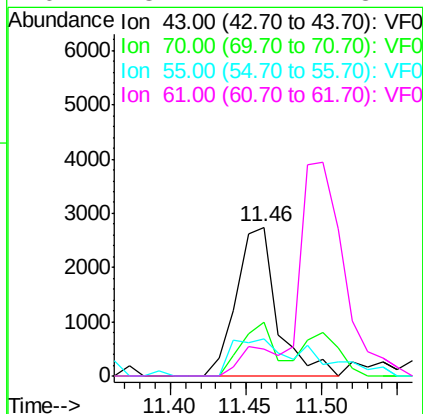
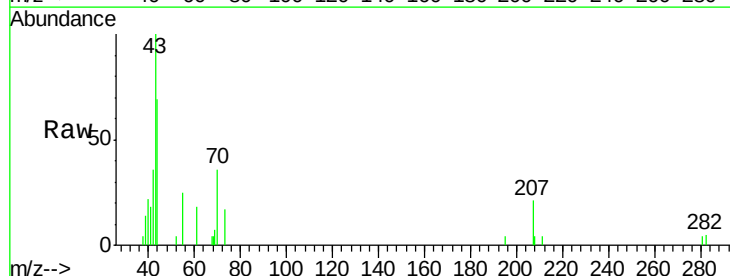
Tot Ion	Ratio	Lower	Upper
152	100		
115	57.1	27.1	81.3
150	153.2	0.0	305.2

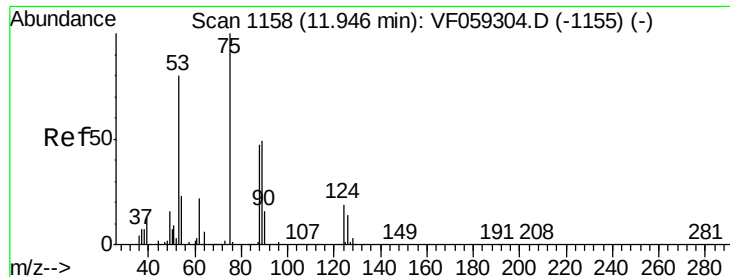


#74

N-amyl acetate
Concen: 1.29 ug/l
RT: 11.46 min Scan# 1109
Delta R.T. 0.01 min
Lab File: VF059335.D
Acq: 27 Jun 2018 13:28

Tgt Ion	Ratio	Lower	Upper
43	100		
70	36.3	28.8	43.2
55	25.1	17.4	26.0
61	18.2	21.1	31.7





#81

trans-1,4-Dichloro-2-butene

Concen: 1.18 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VF059335.D

Acq: 27 Jun 2018 13:28

Instrument :

MSVOA_F

ClientSampleId :

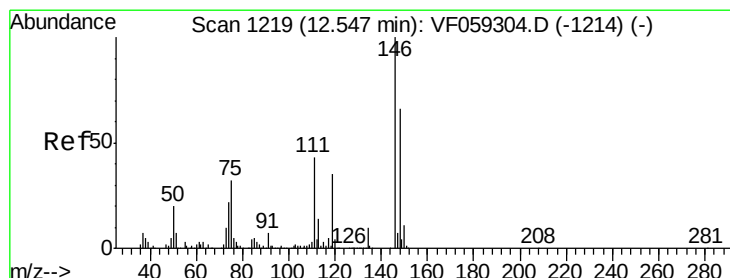
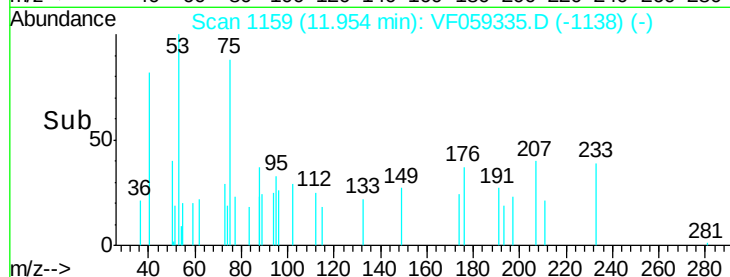
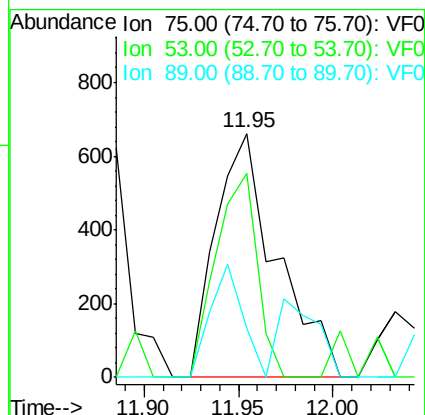
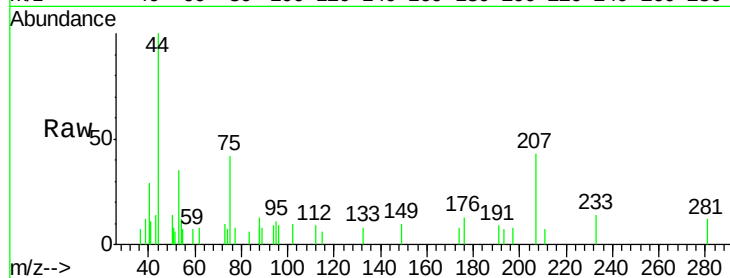
Tot Ion: 75 Resp: 1468

Ion Ratio Lower Upper

75 100

53 84.0 68.8 103.2

89 20.0 42.0 63.0#



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.55 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VF059335.D

Acq: 27 Jun 2018 13:28

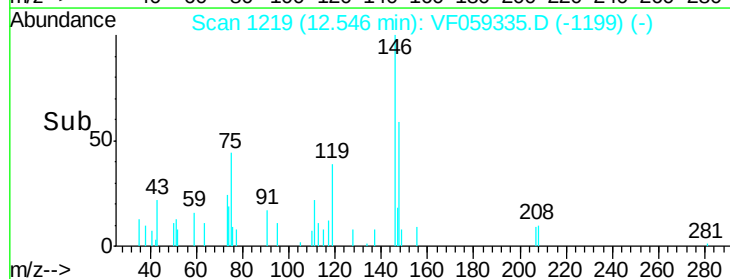
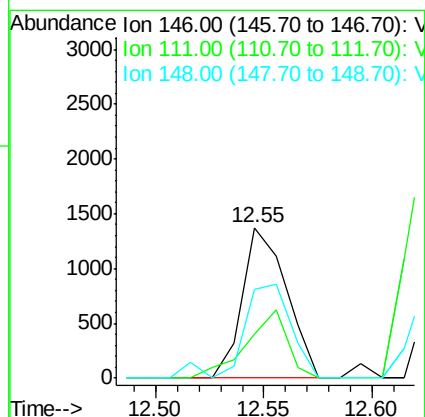
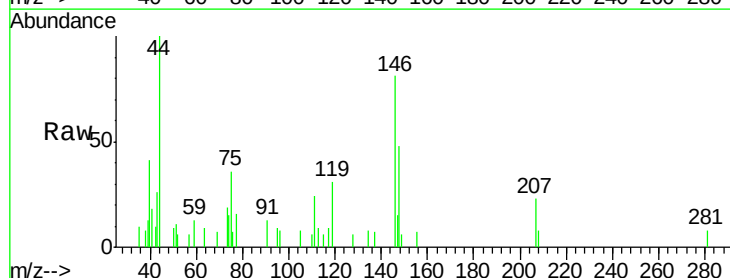
Tgt Ion: 146 Resp: 1946

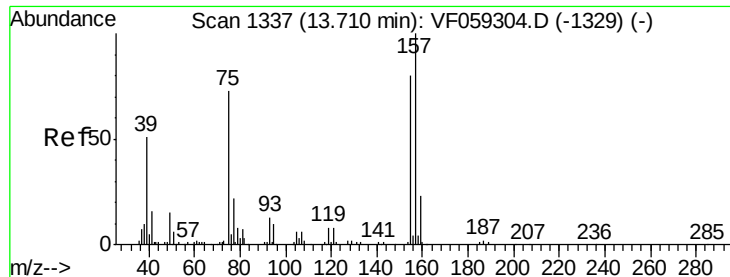
Ion Ratio Lower Upper

146 100

111 29.5 21.4 64.2

148 59.4 32.8 98.4

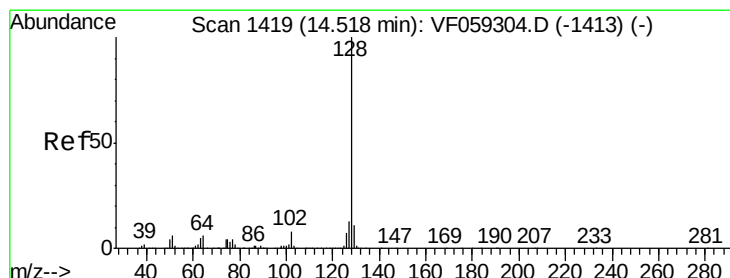
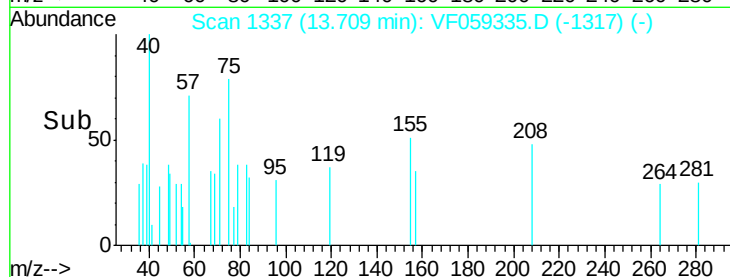
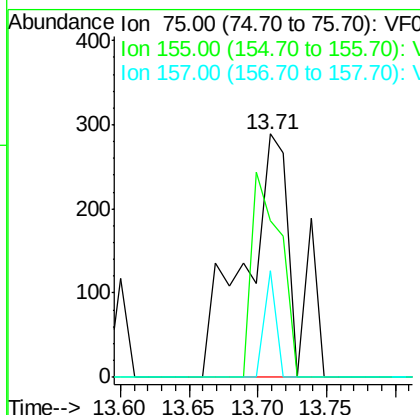
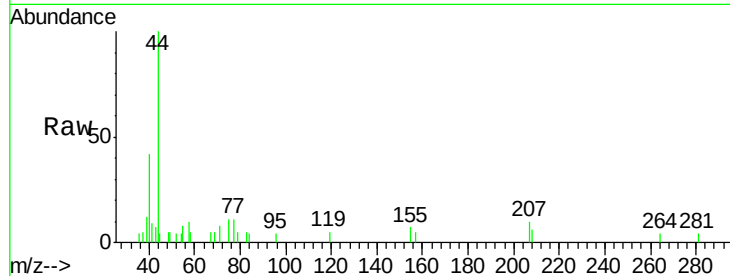




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.19 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. -0.00 min
 Lab File: VF059335.D
 Acq: 27 Jun 2018 13:28

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 75 Resp: 730
 Ion Ratio Lower Upper
 75 100
 155 64.4 54.6 163.8
 157 43.6 68.7 205.9#



#95
 Naphthalene
 Concen: 1.27 ug/l
 RT: 14.52 min Scan# 1419
 Delta R.T. -0.00 min
 Lab File: VF059335.D
 Acq: 27 Jun 2018 13:28

Tgt Ion: 128 Resp: 10803
 Ion Ratio Lower Upper
 128 100
 127 18.1 10.1 15.1#
 129 12.0 8.8 13.2

