

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059332.D
 Acq On : 27 Jun 2018 11:54
 Operator : VA/AP
 Sample : VF0627SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 27 16:02:35 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	5.02	168	316853	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	513261	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.90	117	495419	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	327698	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	186740	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	
35) Dibromofluoromethane	4.27	113	174695	46.58	ug/l	0.00
Spiked Amount			Recovery	=	93.16%	
50) Toluene-d8	7.70	98	402336	43.33	ug/l	0.00
Spiked Amount			Recovery	=	86.66%	
62) 4-Bromofluorobenzene	11.50	95	236734	45.20	ug/l	0.00
Spiked Amount			Recovery	=	90.40%	

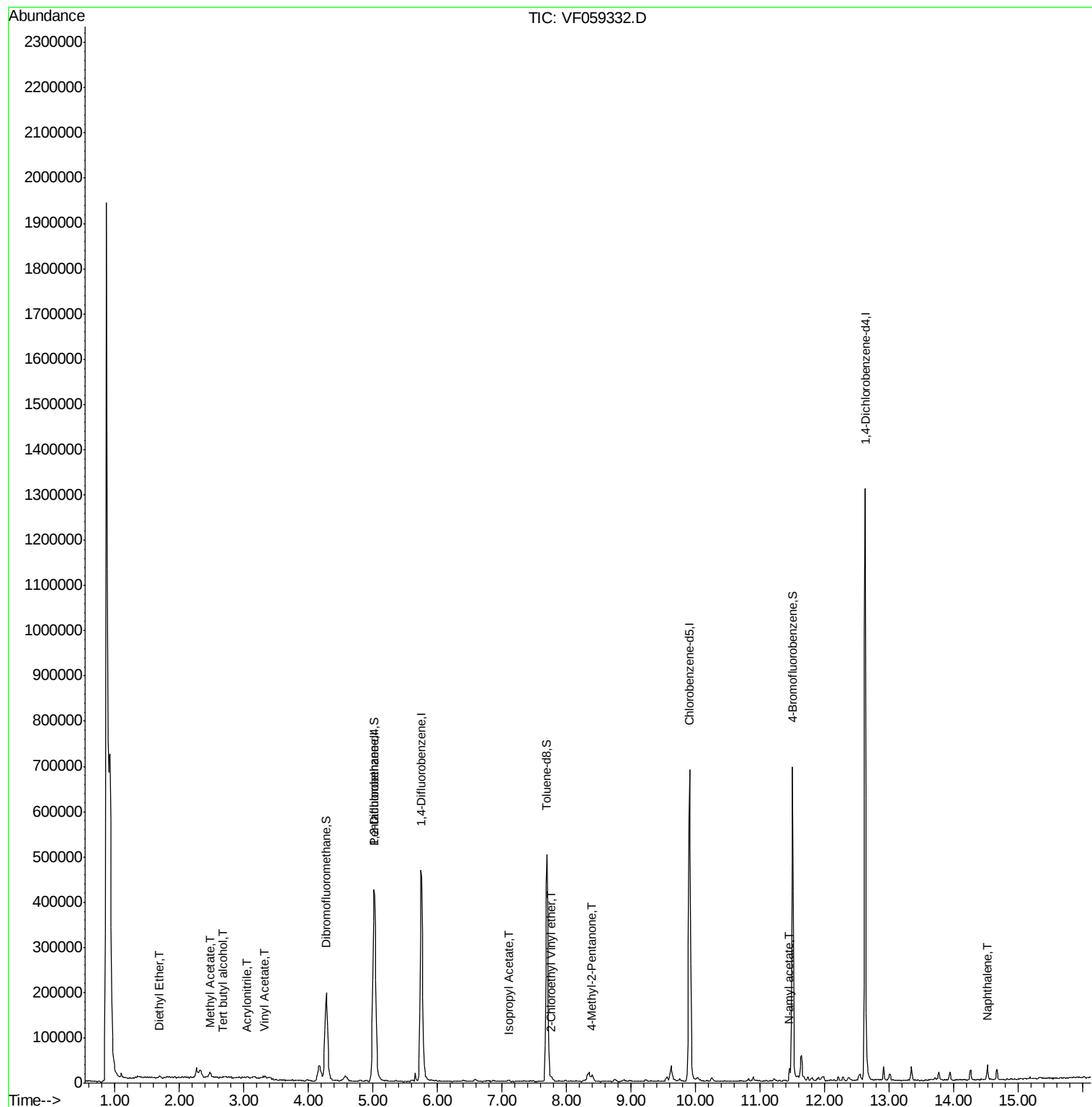
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.24	94	80	Below Cal		93
8) Diethyl Ether	1.69	74	1946	2.00 ug/l		65
11) Tert butyl alcohol	2.66	59	860	3.16 ug/l #		45
13) Acrolein	1.93	56	94	Below Cal		100
15) Acrylonitrile	3.06	53	1640	3.42 ug/l #		54
16) Acetone	2.47	43	3410	Below Cal		93
18) Methyl Acetate	2.47	43	4483	1.29 ug/l #		61
20) Methylene Chloride	2.26	84	8261	Below Cal		98
23) Vinyl Acetate	3.32	43	5668	1.15 ug/l #		79
28) Bromochloromethane	3.89	49	141	Below Cal		98
29) Tetrahydrofuran	4.25	42	2541	Below Cal		98
37) Ethyl Acetate	4.27	43	2936	Below Cal #		26
43) Isopropyl Acetate	7.10	43	3752	1.00 ug/l #		83
49) 1,4-Dioxane	6.86	88	408	Below Cal #		79
51) 4-Methyl-2-Pentanone	8.40	43	11657	4.21 ug/l		100
58) 2-Chloroethyl Vinyl ether	7.77	63	391	1.46 ug/l		100
59) 2-Hexanone	9.62	43	31924	Below Cal		90
74) N-amyl acetate	11.45	43	16543	2.39 ug/l #		90
87) 1,3-Dichlorobenzene	12.55	146	4967	Below Cal		81
95) Naphthalene	14.52	128	20741	1.39 ug/l		98

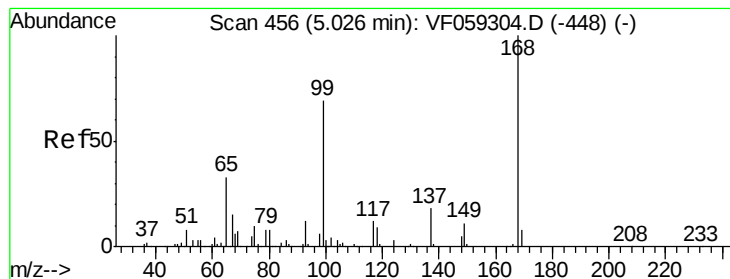
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF062718\
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Misc : 5.00µ/5mL/MSVOA-F/SOIL
ALS Vial : 3 Sample Multiplier: 1

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Quant Time: Jun 27 16:02:35 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

Instrument :

MSVOA_F

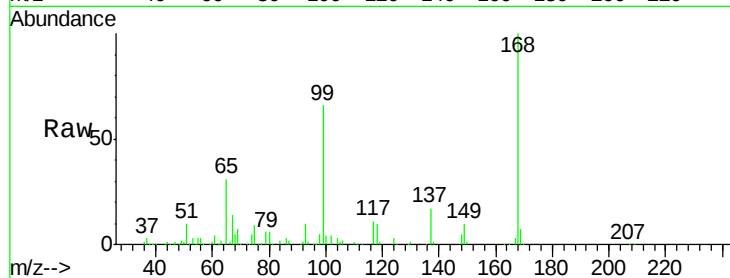
ClientSampled :

Tot Ion:168 Resp: 316853

Ion Ratio Lower Upper

168 100

99 65.7 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

120000

100000

80000

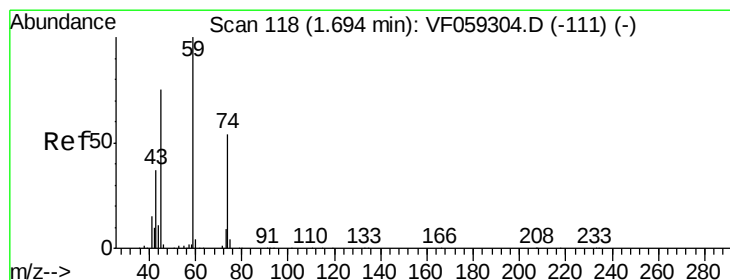
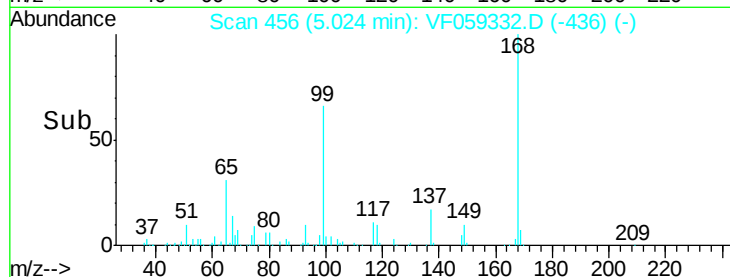
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 2.00 ug/l

RT: 1.69 min Scan# 118

Delta R.T. -0.00 min

Lab File: VF059332.D

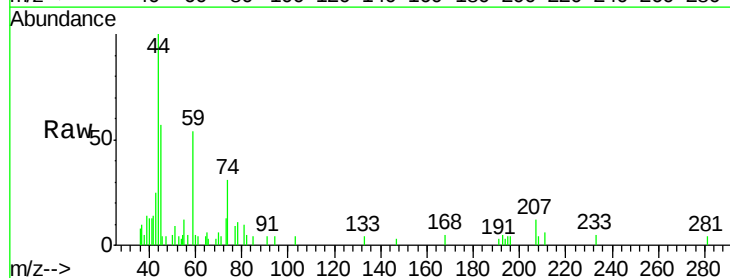
Acq: 27 Jun 2018 11:54

Tgt Ion: 74 Resp: 1946

Ion Ratio Lower Upper

74 100

45 183.1 70.0 210.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

2000

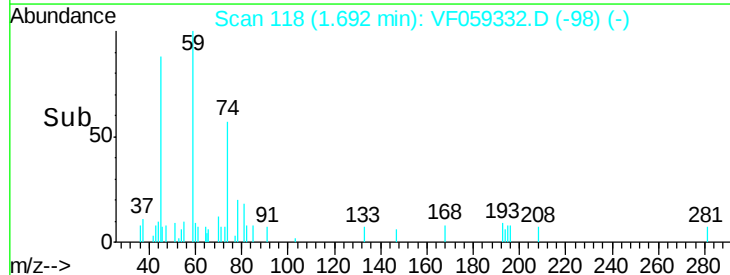
1500

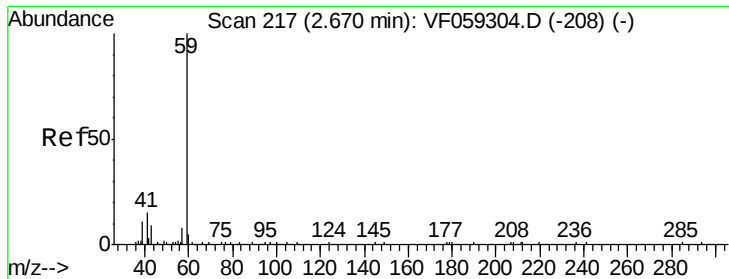
1000

500

0

Time-->



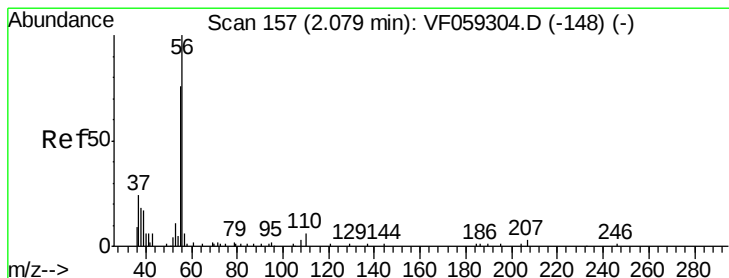
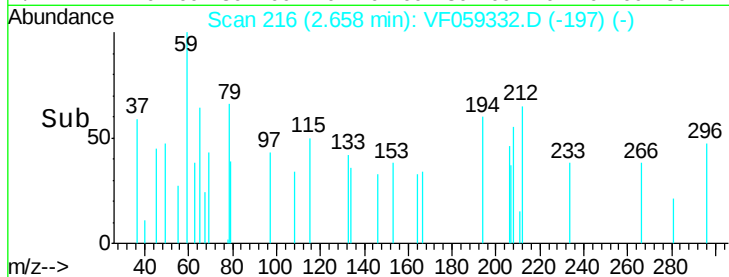
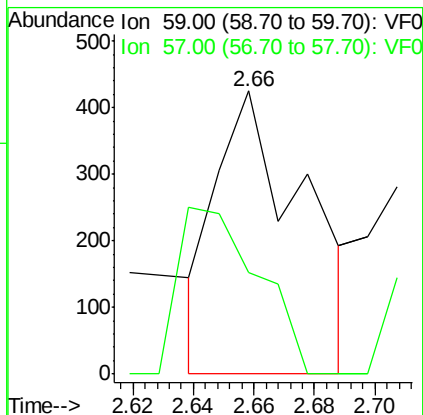
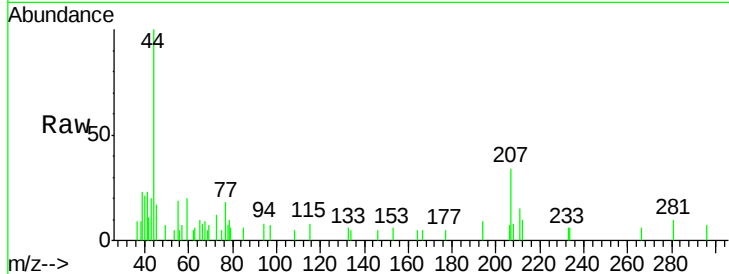


#11

Tert butyl alcohol
Concen: 3.16 ug/l
RT: 2.66 min Scan# 216
Delta R.T. -0.01 min
Lab File: VF059332.D
Acq: 27 Jun 2018 11:54

Instrument :
MSVOA_F
ClientSampled :

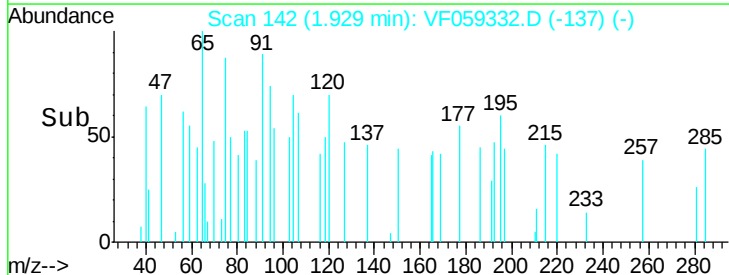
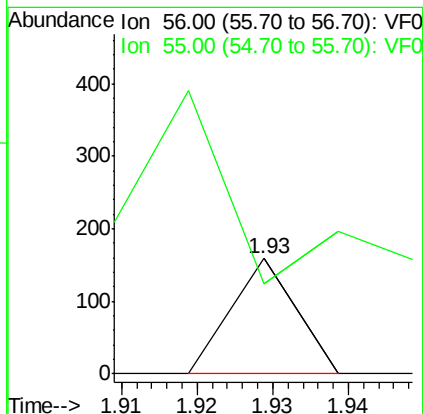
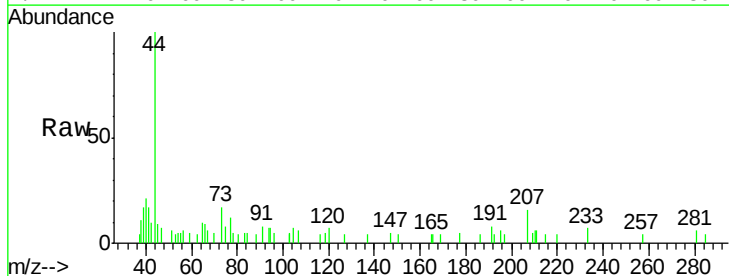
Tot Ion: 59 Resp: 860
Ion Ratio Lower Upper
59 100
57 36.0 11.0 16.4#

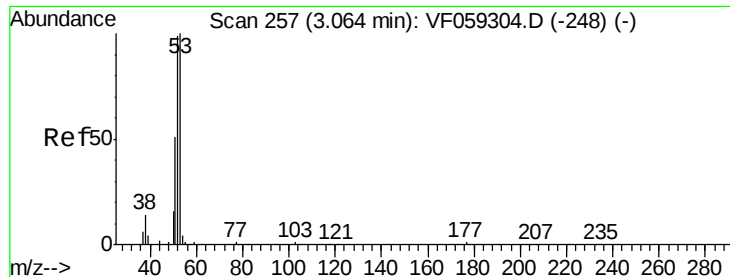


#13

Acrolein
Concen: Below Cal
RT: 1.93 min Scan# 142
Delta R.T. -0.15 min
Lab File: VF059332.D
Acq: 27 Jun 2018 11:54

Tgt Ion: 56 Resp: 94
Ion Ratio Lower Upper
56 100
55 78.0 62.4 93.6





#15

Acrylonitrile

Concen: 3.42 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.00 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

Instrument :
MSVOA_F
ClientSampleId :

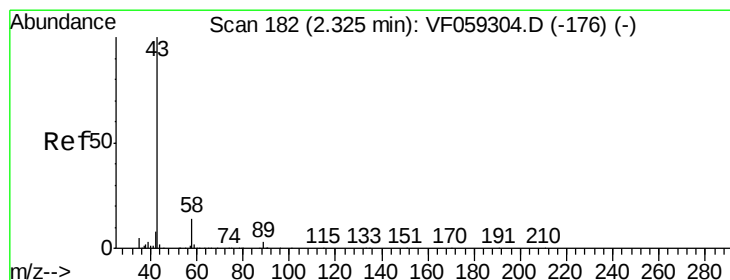
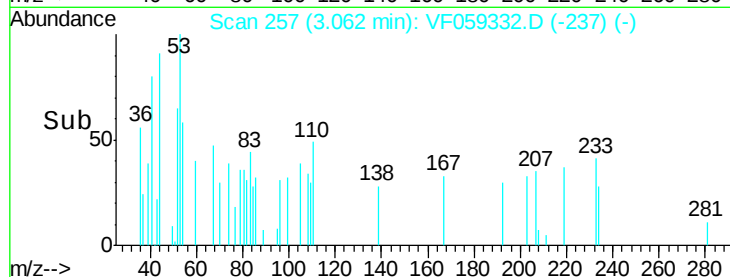
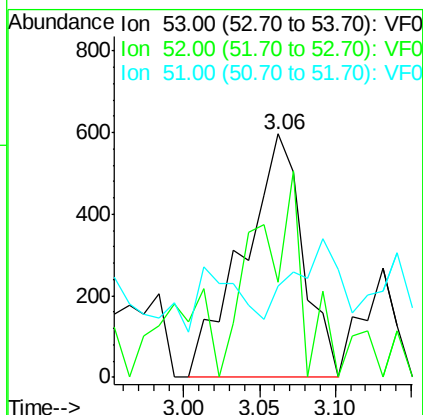
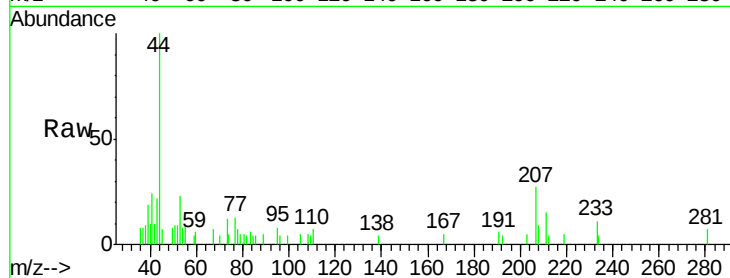
Tot Ion: 53 Resp: 1640

Ion Ratio Lower Upper

53 100

52 39.0 79.2 118.8#

51 37.5 40.9 61.3#



#16

Acetone

Concen: Below Cal

RT: 2.47 min Scan# 197

Delta R.T. 0.15 min

Lab File: VF059332.D

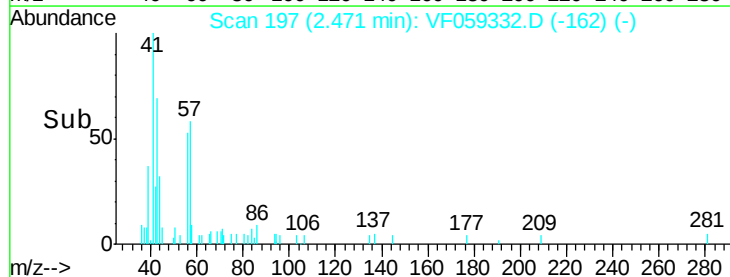
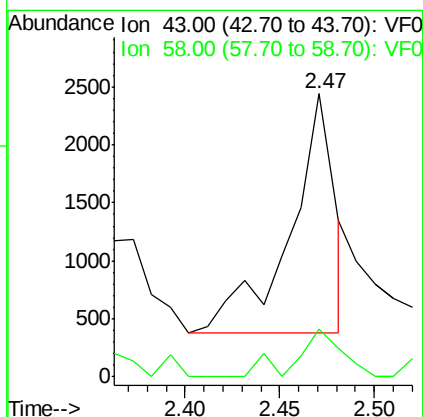
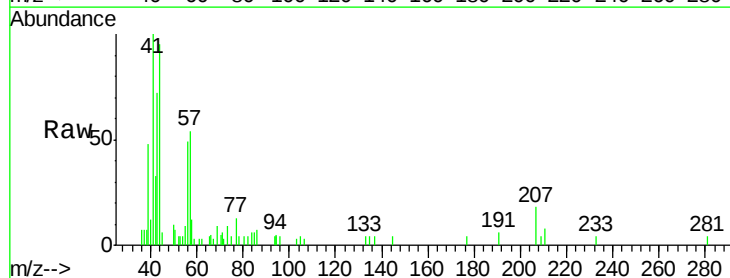
Acq: 27 Jun 2018 11:54

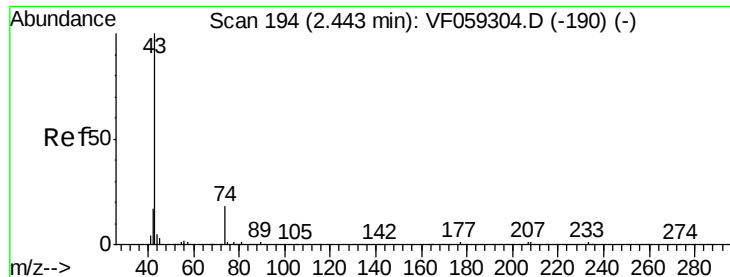
Tgt Ion: 43 Resp: 3410

Ion Ratio Lower Upper

43 100

58 17.0 11.4 17.0

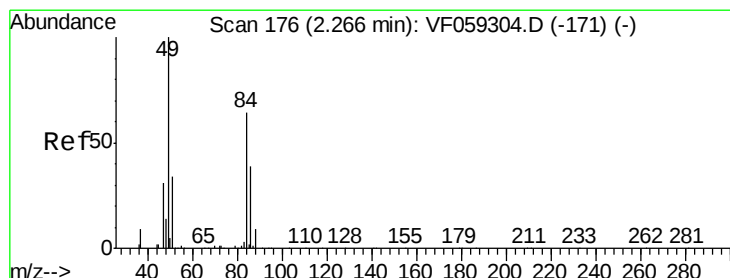
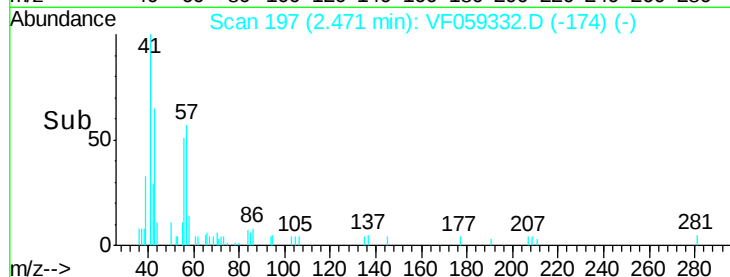
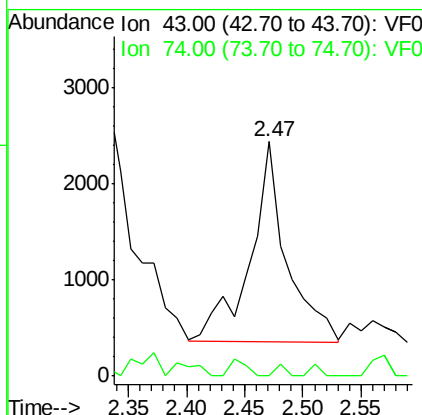
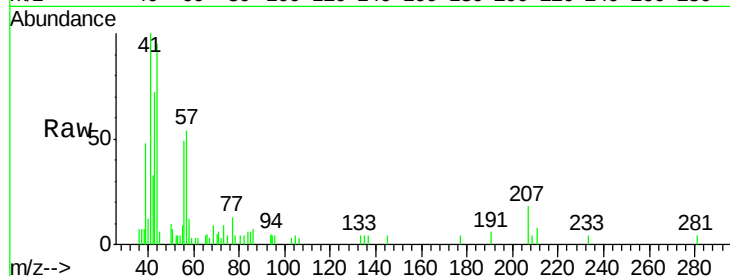




#18
Methyl Acetate
Concen: 1.29 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.03 min
Lab File: VF059332.D
Acq: 27 Jun 2018 11:54

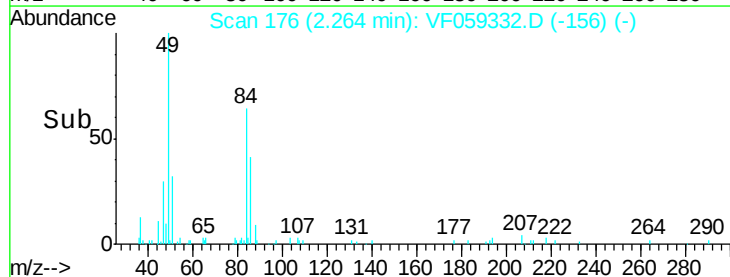
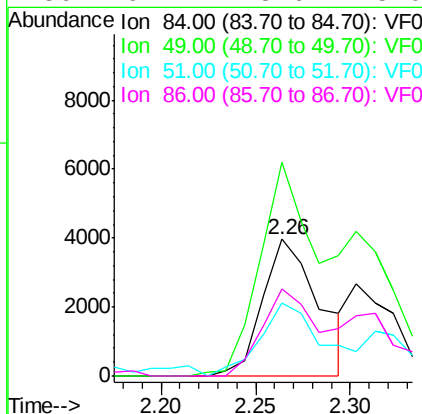
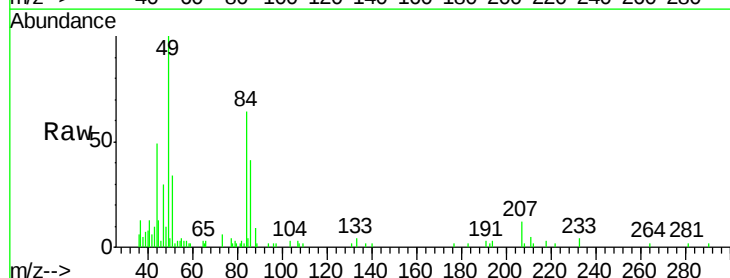
Instrument :
MSVOA_F
ClientSampleId :

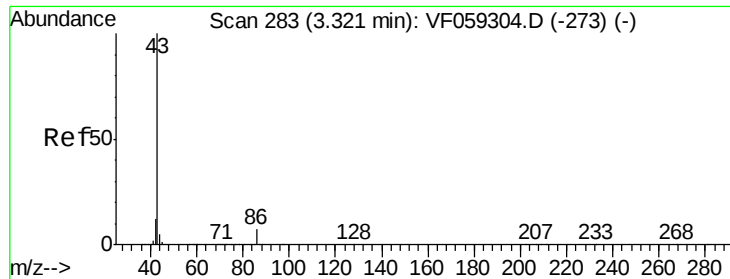
Tot Ion: 43 Resp: 4483
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059332.D
Acq: 27 Jun 2018 11:54

Tgt Ion: 84 Resp: 8261
Ion Ratio Lower Upper
84 100
49 156.1 126.5 189.7
51 53.2 42.9 64.3
86 64.1 48.6 73.0





#23

Vinyl Acetate

Concen: 1.15 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.00 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

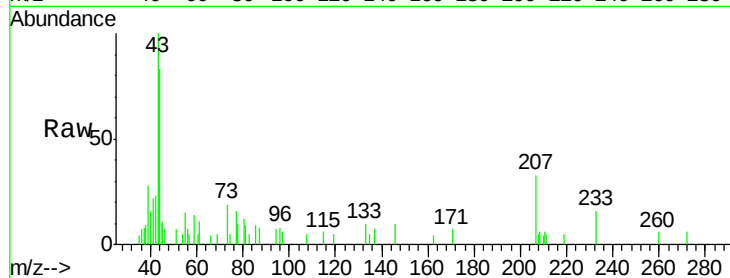
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 5668

Ion Ratio Lower Upper

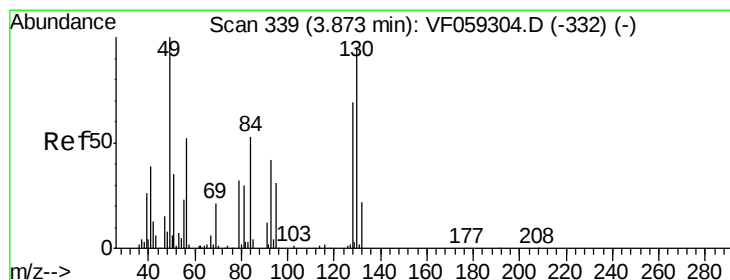
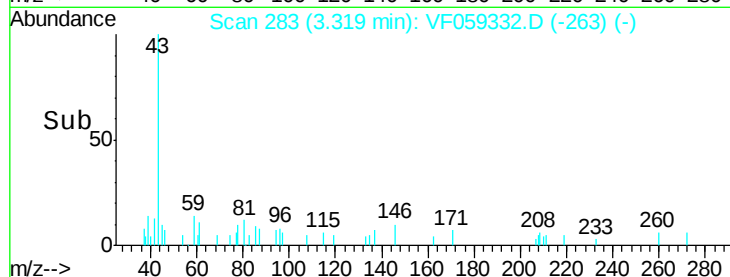
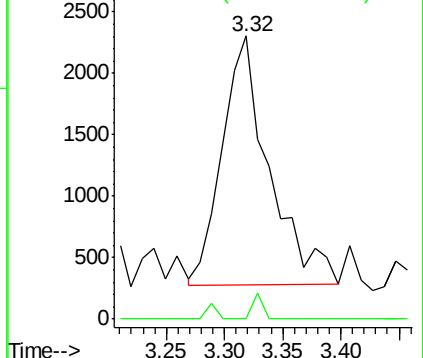
43 100

86 0.0 5.8 8.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#28

Bromochloromethane

Concen: Below Cal

RT: 3.89 min Scan# 341

Delta R.T. 0.02 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

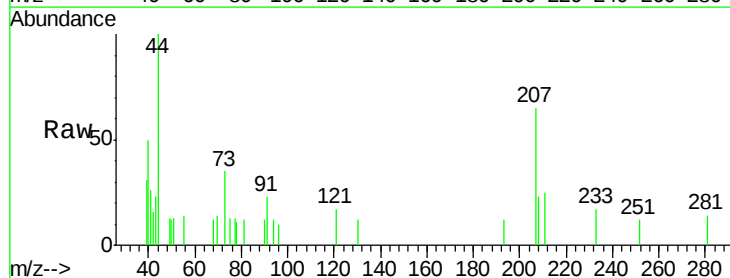
Tgt Ion: 49 Resp: 141

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

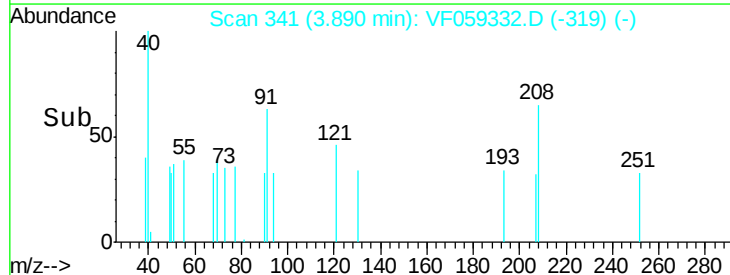
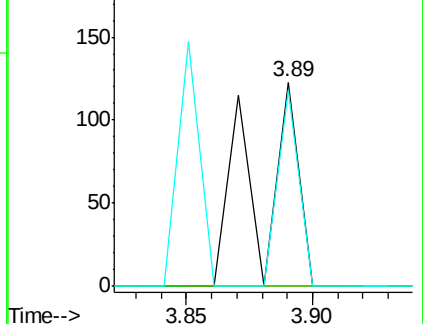
130 95.9 75.1 112.7

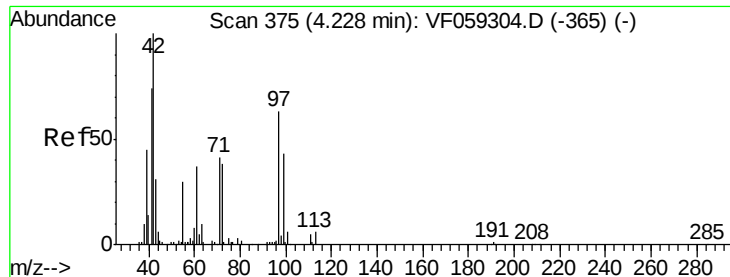


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V

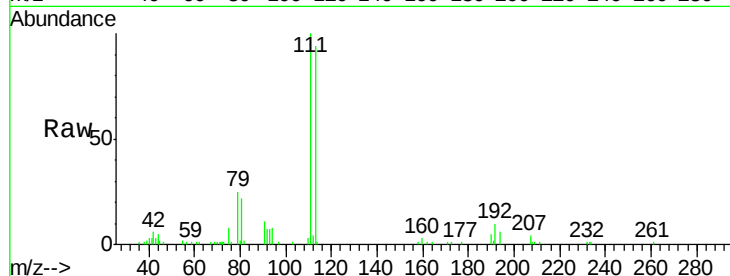




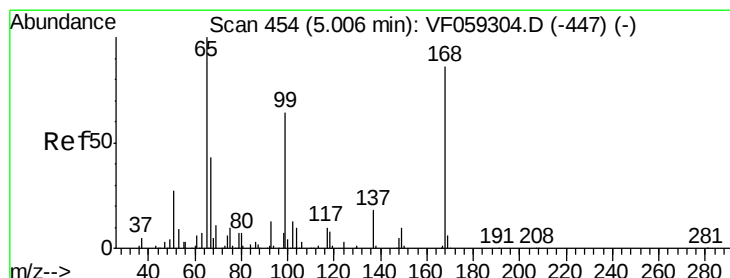
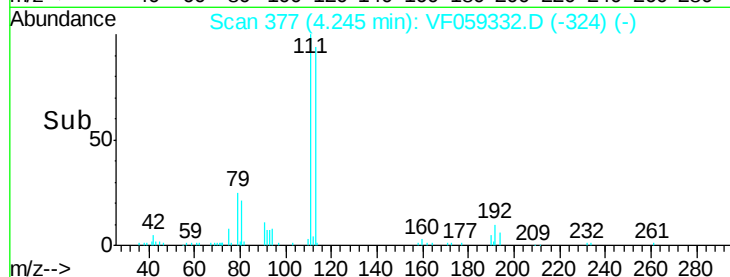
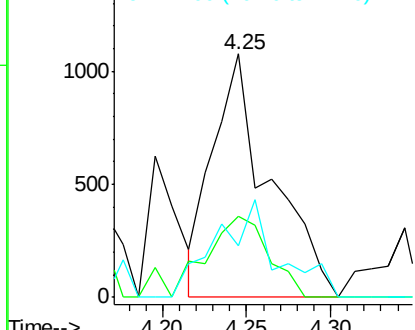
#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.25 min Scan# 377
Delta R.T. 0.02 min
Lab File: VF059332.D
Acq: 27 Jun 2018 11:54

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 42 Resp: 2541
Ion Ratio Lower Upper
42 100
72 38.8 30.5 45.7
71 42.8 32.5 48.7

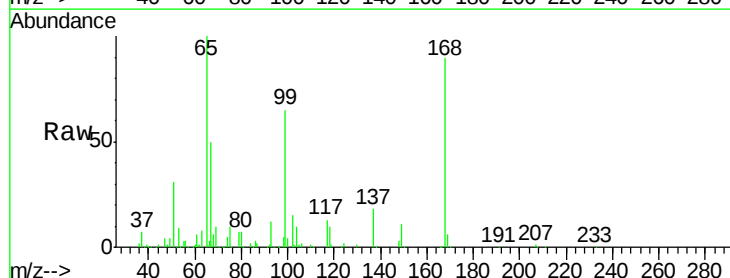


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

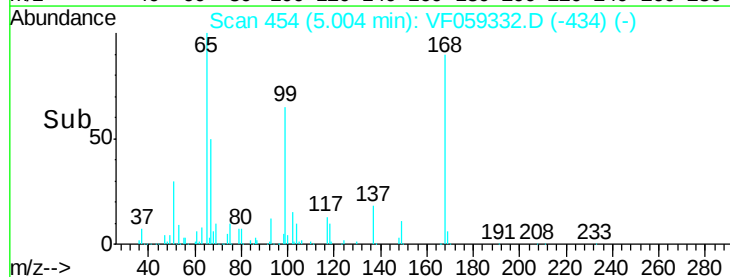
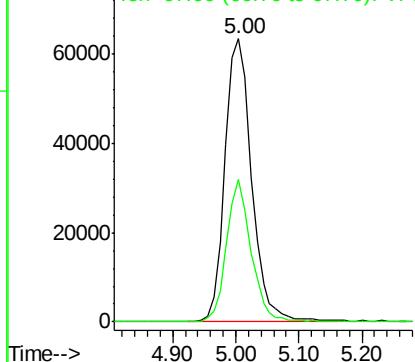


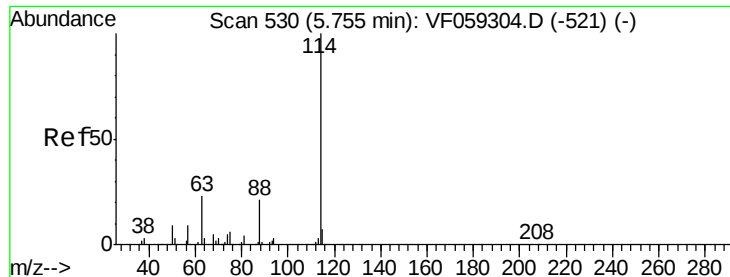
#33
1,2-Dichloroethane-d4
Concen: 45.62 ug/l
RT: 5.00 min Scan# 454
Delta R.T. -0.00 min
Lab File: VF059332.D
Acq: 27 Jun 2018 11:54

Tgt Ion: 65 Resp: 186740
Ion Ratio Lower Upper
65 100
67 50.4 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: 50.00 ug/l

RT: 5.74 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

Instrument :

MSVOA_F

ClientSampleId :

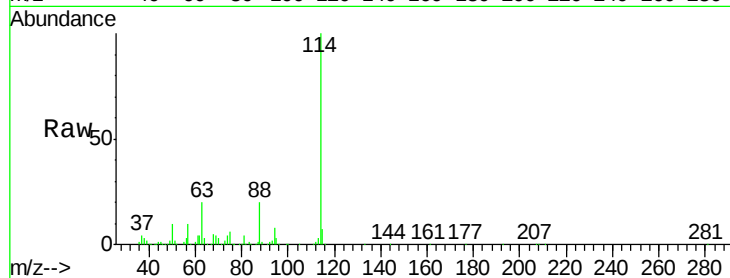
Tot Ion:114 Resp: 513261

Ion Ratio Lower Upper

114 100

63 20.0 0.0 45.8

88 19.9 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

250000

200000

150000

100000

50000

0

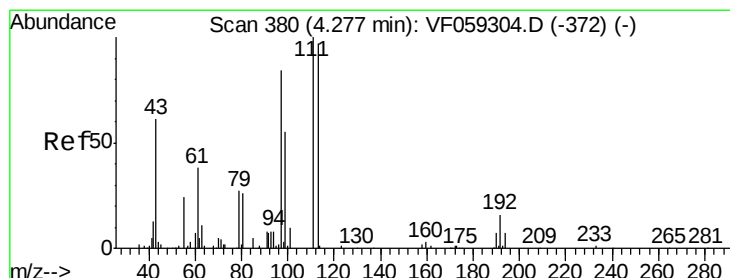
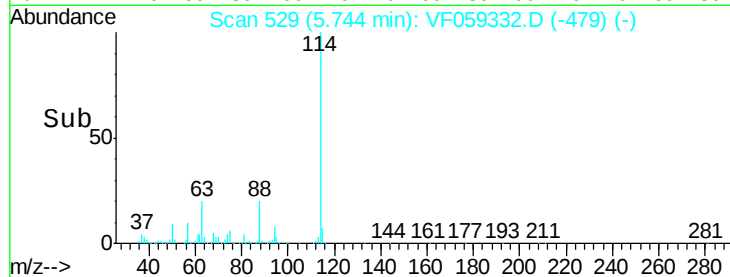
5.60

5.74

5.80

6.00

Time-->



#35

Dibromofluoromethane

Concen: 46.58 ug/l

RT: 4.27 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

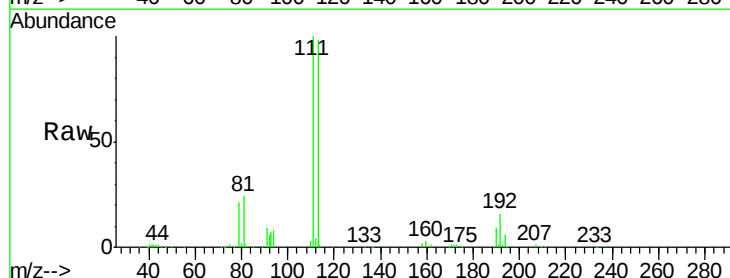
Tgt Ion:113 Resp: 174695

Ion Ratio Lower Upper

113 100

111 102.3 82.1 123.1

192 16.0 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

80000

60000

40000

20000

0

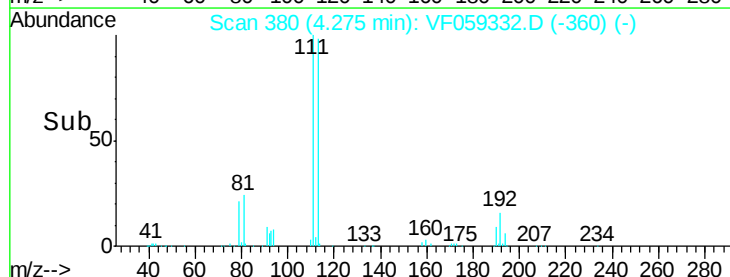
4.10

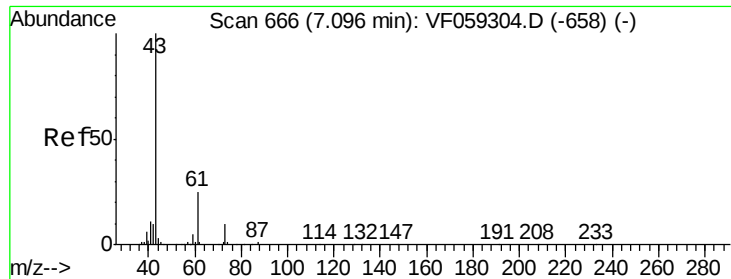
4.27

4.30

4.40

Time-->





#43

Isopropyl Acetate

Concen: 1.00 ug/l

RT: 7.10 min Scan# 667

Delta R.T. 0.01 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

Instrument :
MSVOA_F
ClientSampled :

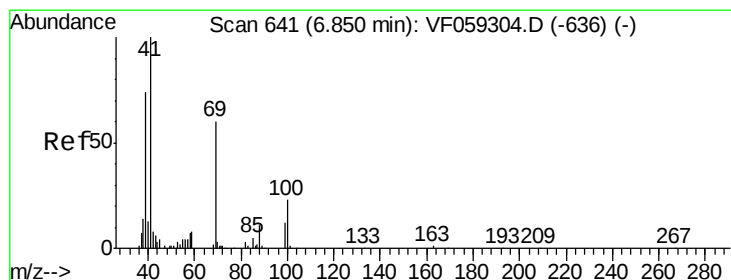
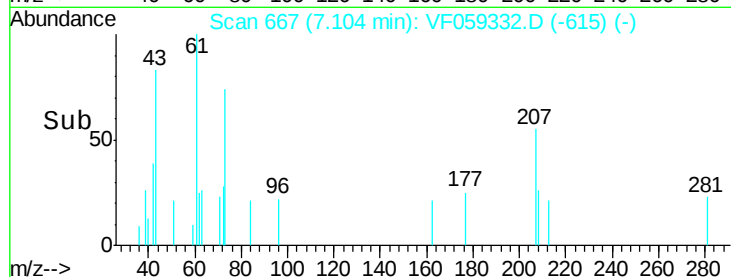
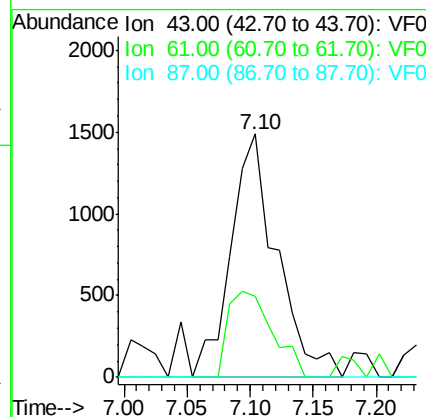
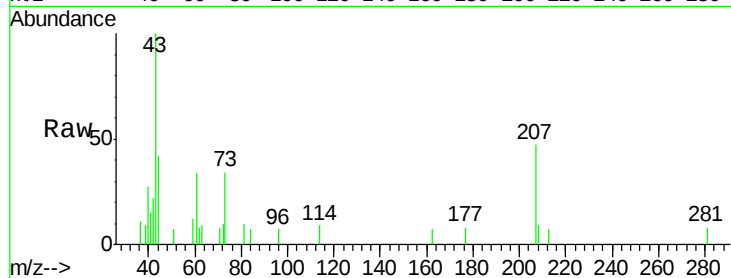
Tot Ion: 43 Resp: 3752

Ion Ratio Lower Upper

43 100

61 33.5 19.7 29.5#

87 0.0 0.5 0.7#



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.86 min Scan# 642

Delta R.T. 0.01 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

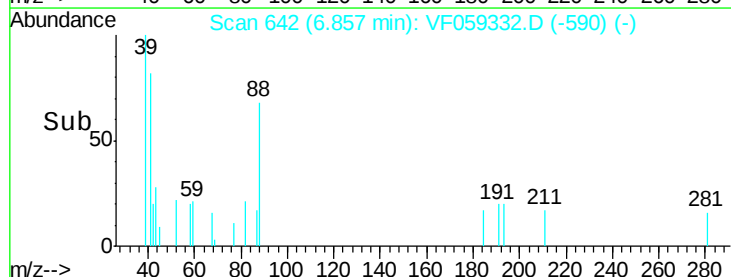
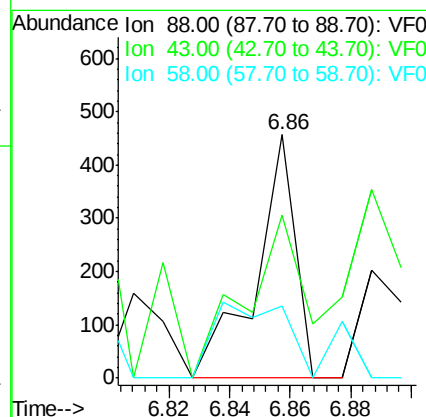
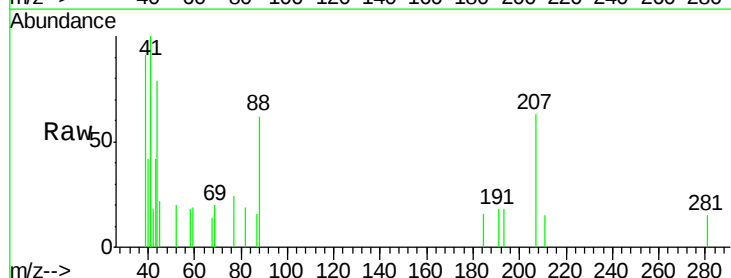
Tgt Ion: 88 Resp: 408

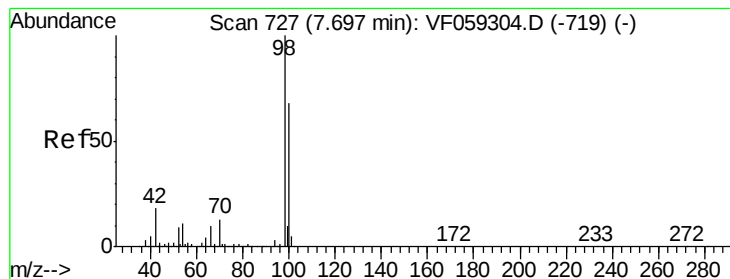
Ion Ratio Lower Upper

88 100

43 67.2 50.6 75.8

58 29.8 46.6 69.8#





#50

Toluene-d8

Concen: 43.33 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.00 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

Instrument :

MSVOA_F

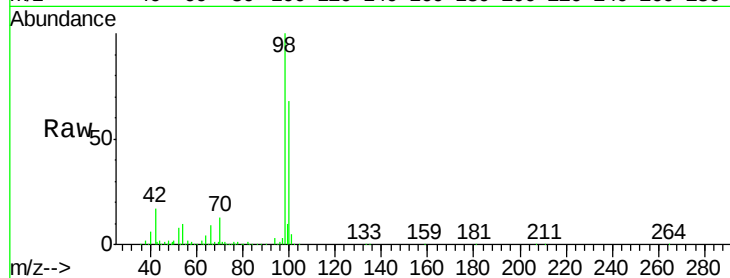
ClientSampleId :

Tot Ion: 98 Resp: 402336

Ion Ratio Lower Upper

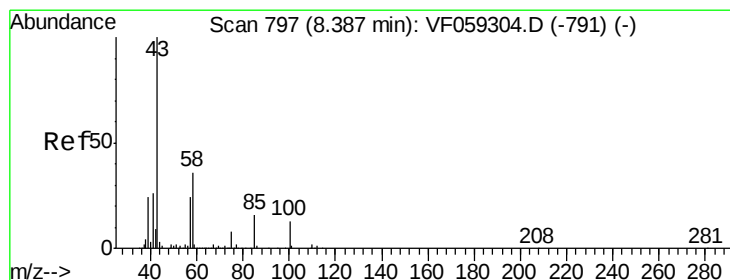
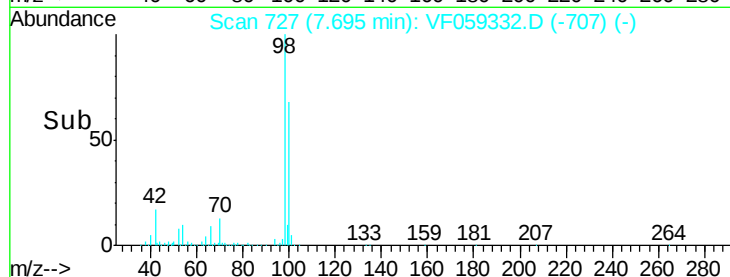
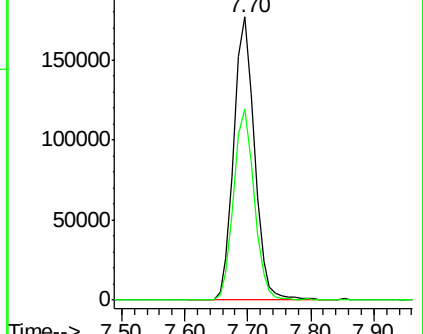
98 100

100 67.6 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 4.21 ug/l

RT: 8.40 min Scan# 798

Delta R.T. 0.01 min

Lab File: VF059332.D

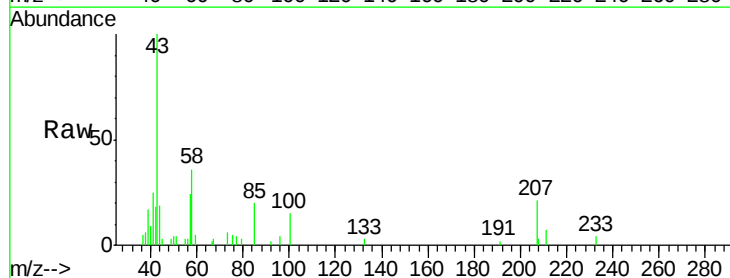
Acq: 27 Jun 2018 11:54

Tgt Ion: 43 Resp: 11657

Ion Ratio Lower Upper

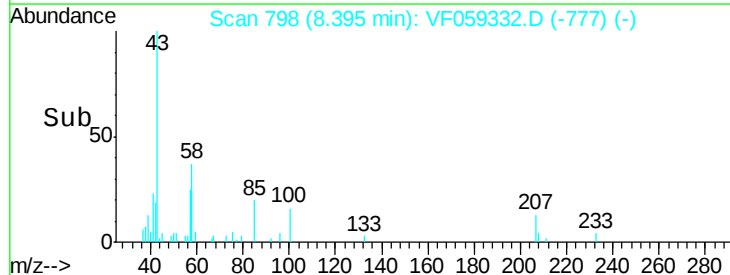
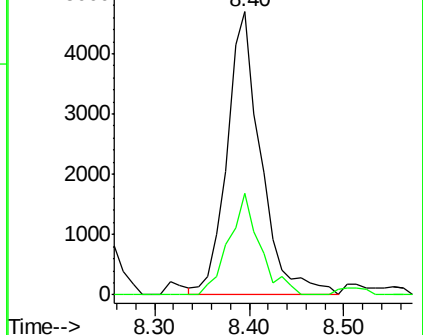
43 100

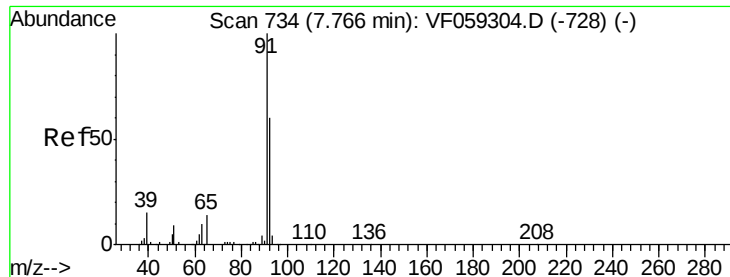
58 35.8 28.4 42.6



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: 1.46 ug/l

RT: 7.77 min Scan# 735

Delta R.T. 0.01 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

Instrument :

MSVOA_F

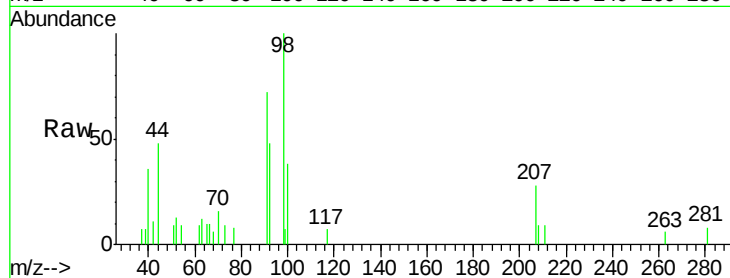
ClientSampleId :

Tot Ion: 63 Resp: 391

Ion Ratio Lower Upper

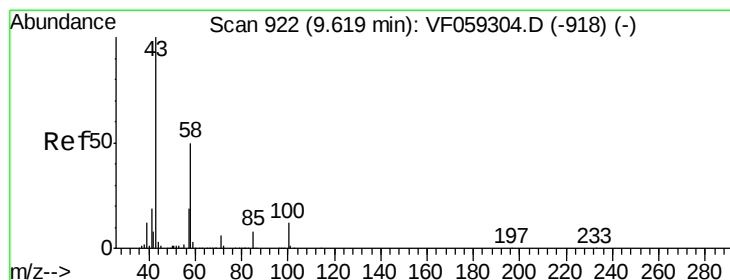
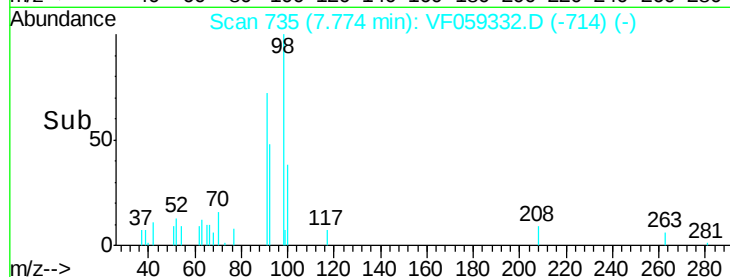
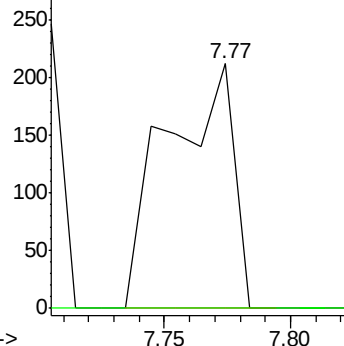
63 100

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: 9.62 min Scan# 922

Delta R.T. -0.00 min

Lab File: VF059332.D

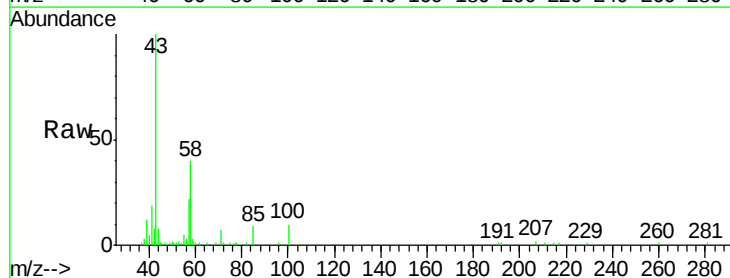
Acq: 27 Jun 2018 11:54

Tgt Ion: 43 Resp: 31924

Ion Ratio Lower Upper

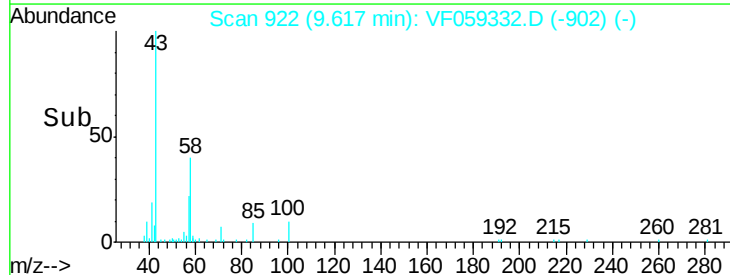
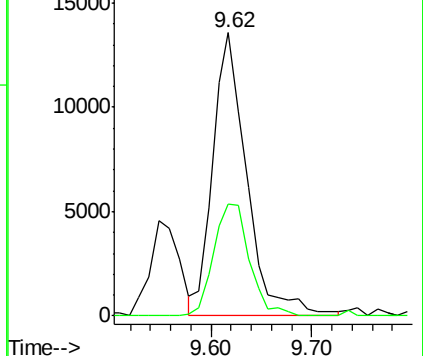
43 100

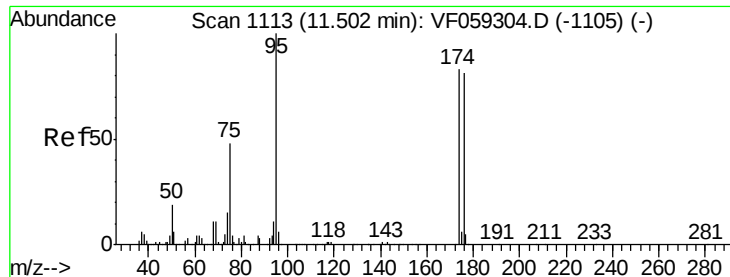
58 39.7 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 45.20 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

Instrument :

MSVOA_F

ClientSampleId :

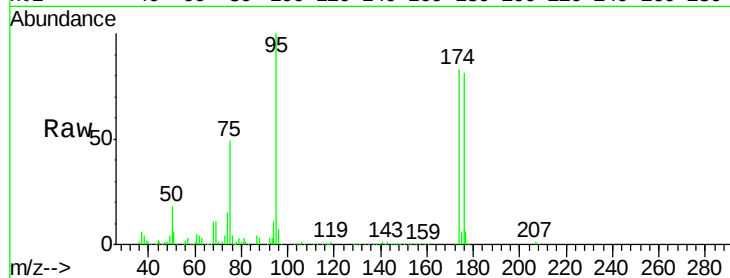
Tot Ion: 95 Resp: 236734

Ion Ratio Lower Upper

95 100

174 83.4 0.0 165.2

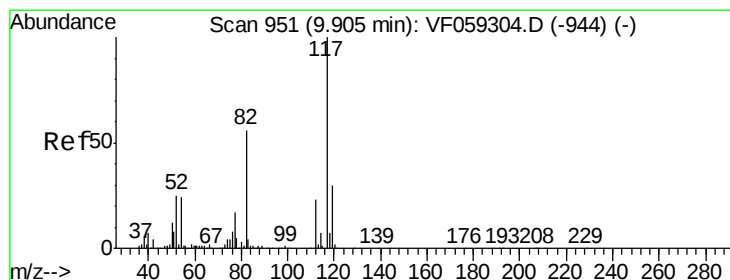
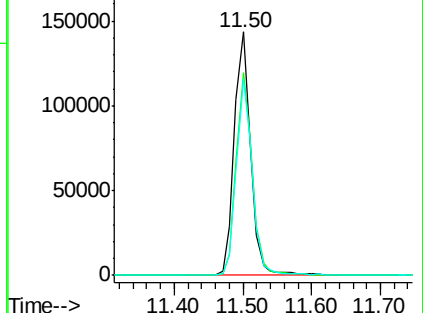
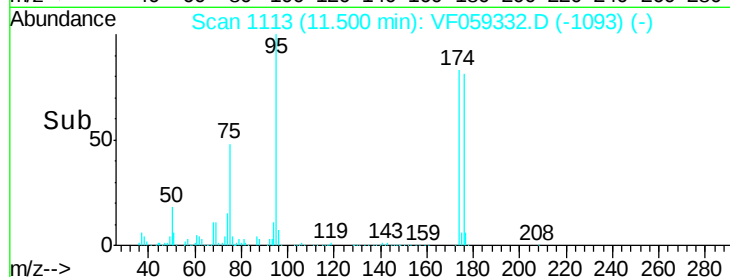
176 80.8 0.0 161.0



Abundance Ion 95.00 (94.70 to 95.70): VF059332.D (-1093) (-)

Ion 174.00 (173.70 to 174.70): VF059332.D (-1093) (-)

Ion 176.00 (175.70 to 176.70): VF059332.D (-1093) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.90 min Scan# 951

Delta R.T. -0.00 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

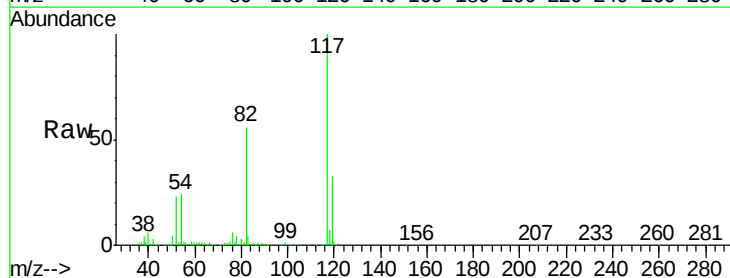
Tgt Ion: 117 Resp: 495419

Ion Ratio Lower Upper

117 100

82 56.1 44.6 66.8

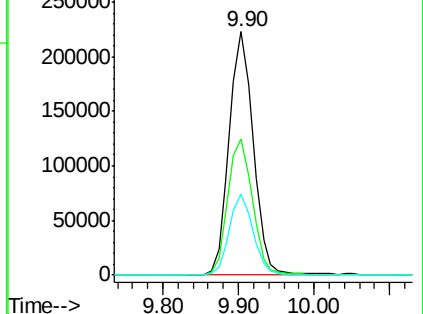
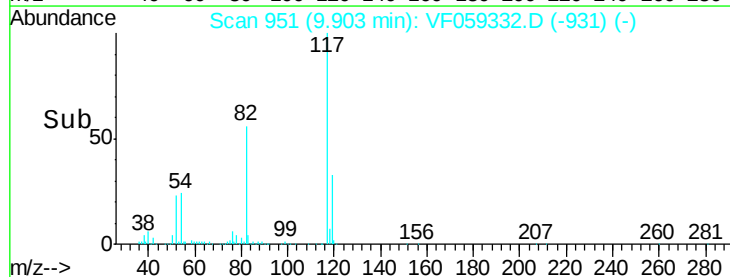
119 33.3 24.1 36.1

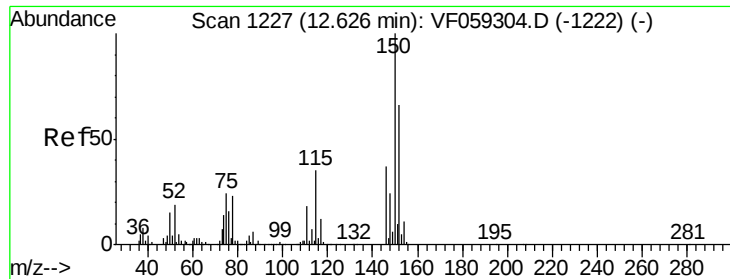


Abundance Ion 117.00 (116.70 to 117.70): VF059332.D (-931) (-)

Ion 82.00 (81.70 to 82.70): VF059332.D (-931) (-)

Ion 119.00 (118.70 to 119.70): VF059332.D (-931) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

Instrument :

MSVOA_F

ClientSampleId :

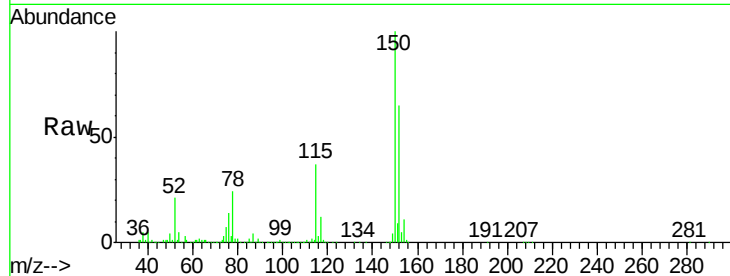
Tot Ion:152 Resp: 327698

Ion Ratio Lower Upper

152 100

115 57.7 27.1 81.3

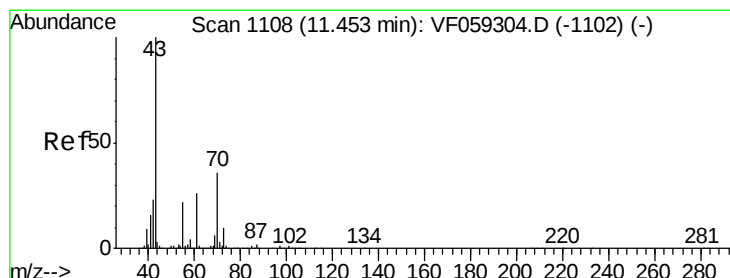
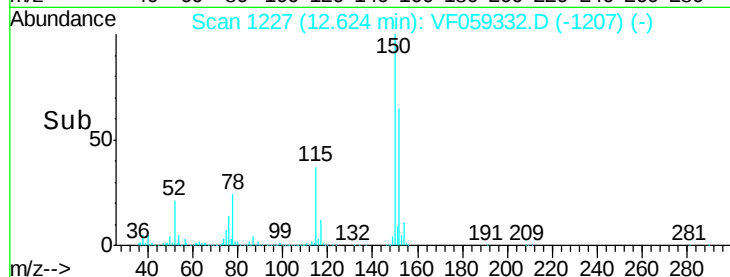
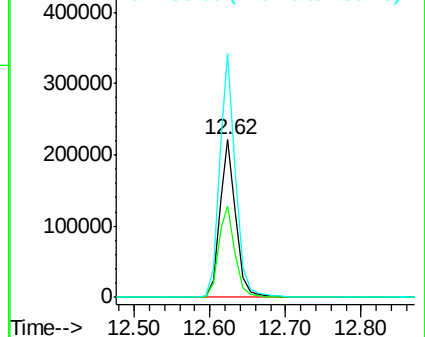
150 154.7 0.0 305.2



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



#74

N-aryl acetate

Concen: 2.39 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF059332.D

Acq: 27 Jun 2018 11:54

Tgt Ion: 43 Resp: 16543

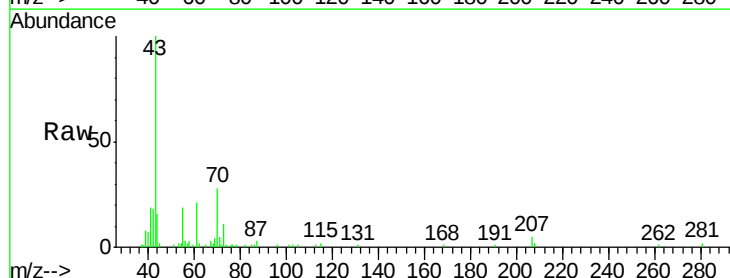
Ion Ratio Lower Upper

43 100

70 28.1 28.8 43.2#

55 19.1 17.4 26.0

61 21.3 21.1 31.7

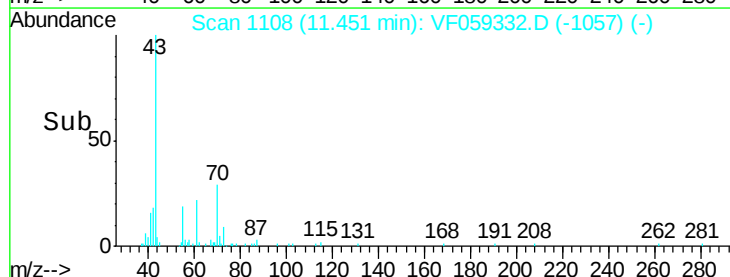
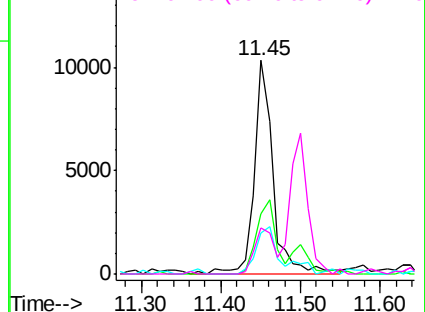


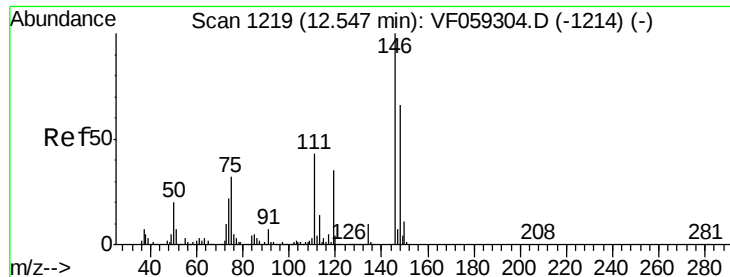
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

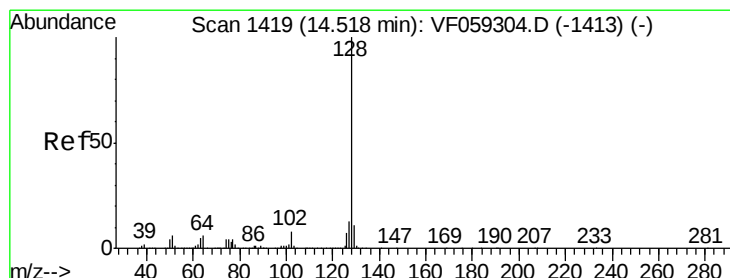
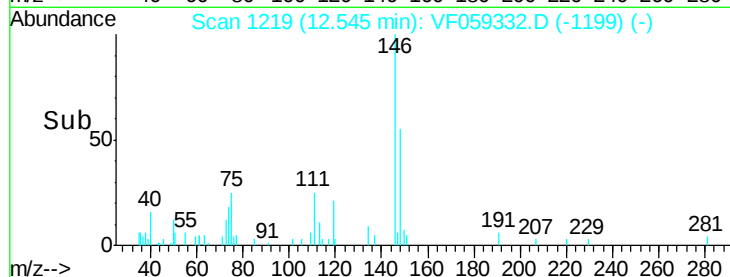
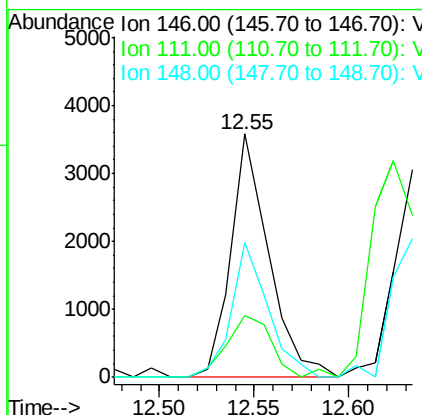
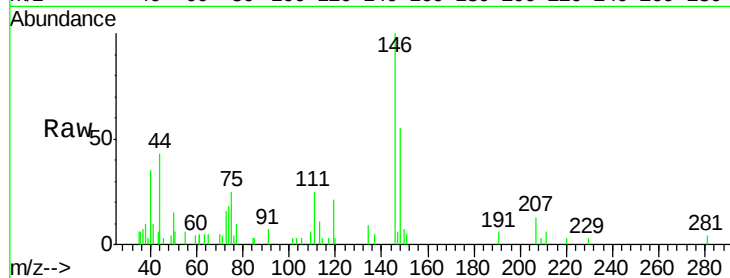




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VF059332.D
 Acq: 27 Jun 2018 11:54

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:146 Resp: 4967
 Ion Ratio Lower Upper
 146 100
 111 25.1 21.4 64.2
 148 55.2 32.8 98.4



#95
 Naphthalene
 Concen: 1.39 ug/l
 RT: 14.52 min Scan# 1419
 Delta R.T. -0.00 min
 Lab File: VF059332.D
 Acq: 27 Jun 2018 11:54

Tgt Ion:128 Resp: 20741
 Ion Ratio Lower Upper
 128 100
 127 12.7 10.1 15.1
 129 12.6 8.8 13.2

