

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062818\
 Data File : VF059359.D
 Acq On : 28 Jun 2018 14:37
 Operator : VA/AP
 Sample : J3247-07
 Misc : 6.26g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-02-062618

Quant Time: Jun 29 03:10:10 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	5.05	168	188465	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.77	114	304780	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.92	117	290479	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.64	152	163545	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	142471	58.51	ug/l	0.01
Spiked Amount			Recovery	=	117.02%	
35) Dibromofluoromethane	4.30	113	132566	59.53	ug/l	0.02
Spiked Amount			Recovery	=	119.06%	
50) Toluene-d8	7.71	98	282235	51.19	ug/l	0.01
Spiked Amount			Recovery	=	102.38%	
62) 4-Bromofluorobenzene	11.51	95	159295	51.22	ug/l	0.01
Spiked Amount			Recovery	=	102.44%	

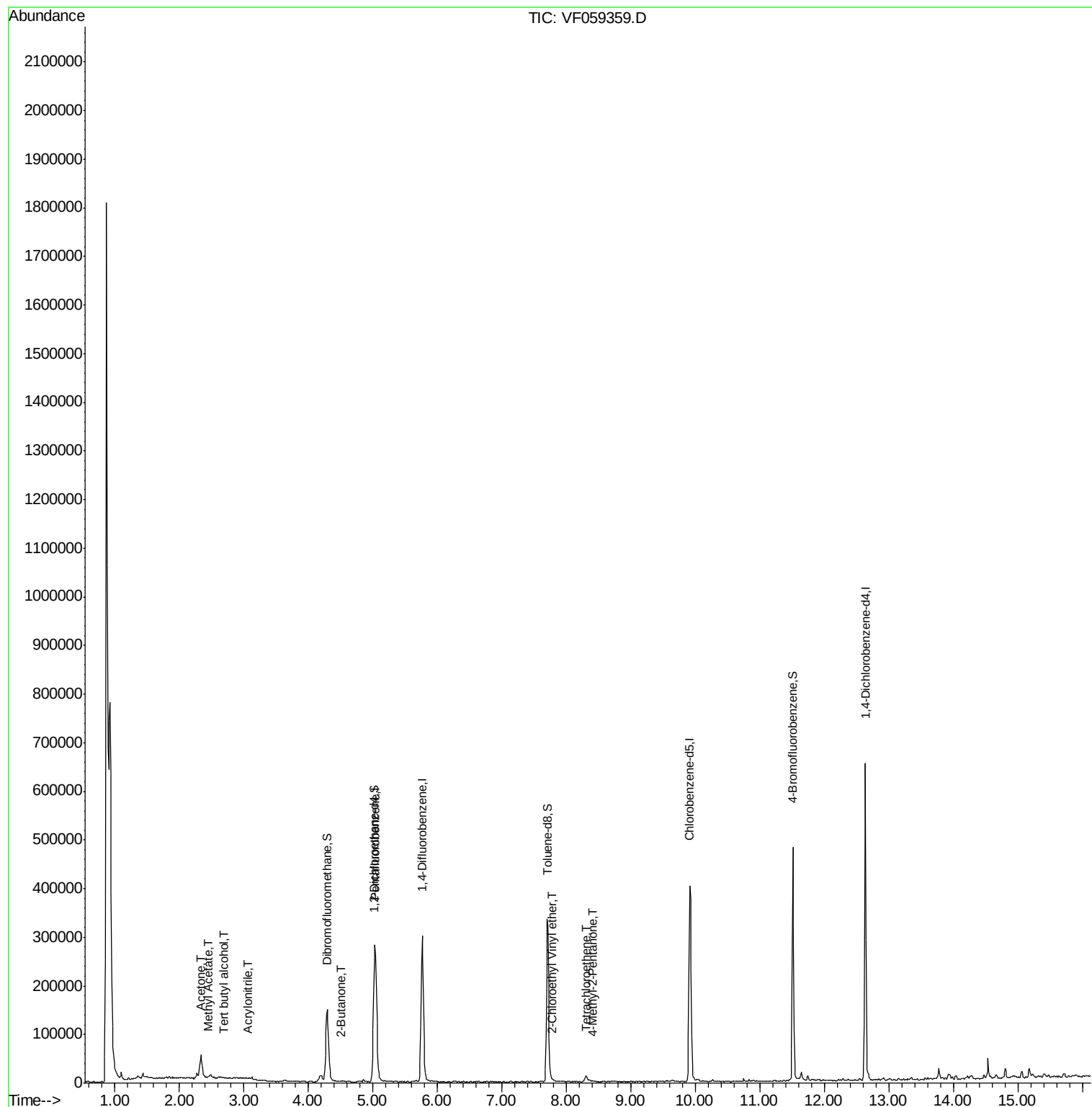
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.36	94	363	Below Cal	#	4
11) Tert butyl alcohol	2.69	59	1143	7.051	ug/l #	81
13) Acrolein	2.01	56	214	Below Cal		100
15) Acrylonitrile	3.06	53	609	2.133	ug/l #	75
16) Acetone	2.34	43	77381	122.025	ug/l	94
18) Methyl Acetate	2.44	43	9199	7.378	ug/l #	89
20) Methylene Chloride	2.29	84	3990	Below Cal	#	85
25) 2-Butanone	4.51	43	2960	1.286	ug/l	94
28) Bromochloromethane	3.90	49	173	Below Cal	#	6
29) Tetrahydrofuran	4.27	42	1176	Below Cal	#	69
37) Ethyl Acetate	4.30	43	499	Below Cal	#	26
49) 1,4-Dioxane	6.91	88	99	Below Cal	#	60
51) 4-Methyl-2-Pentanone	8.42	43	1749	1.065	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.79	63	187	1.174	ug/l	100
59) 2-Hexanone	9.65	43	3045	Below Cal		90
64) Tetrachloroethene	8.32	164	3671	1.949	ug/l #	68
87) 1,3-Dichlorobenzene	12.56	146	905	Below Cal		92

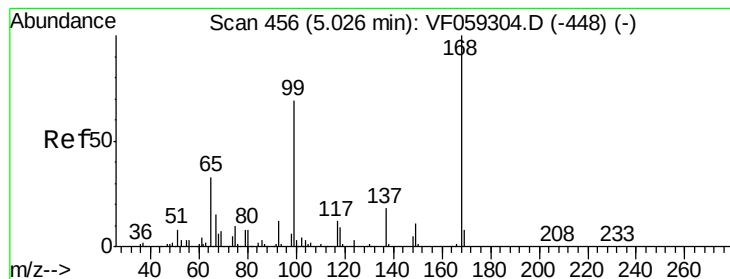
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF059359.D

Acq: 28 Jun 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

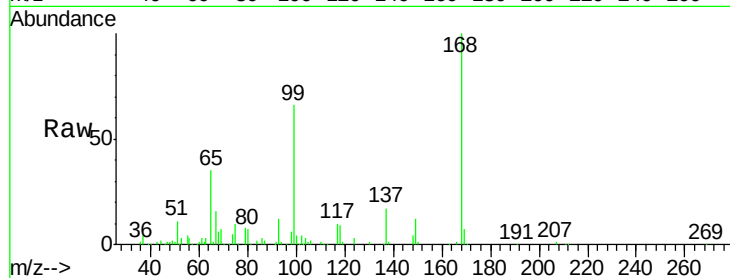
OR-02-062618

Tot Ion:168 Resp: 188465

Ion Ratio Lower Upper

168 100

99 65.5 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

60000

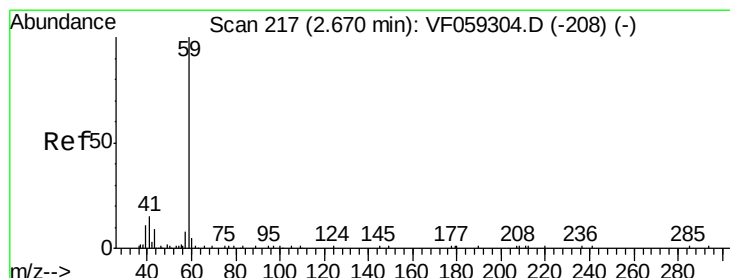
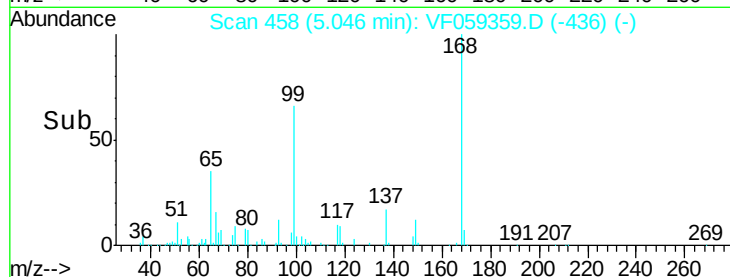
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#11

Tert butyl alcohol

Concen: 7.051 ug/l

RT: 2.69 min Scan# 219

Delta R.T. 0.02 min

Lab File: VF059359.D

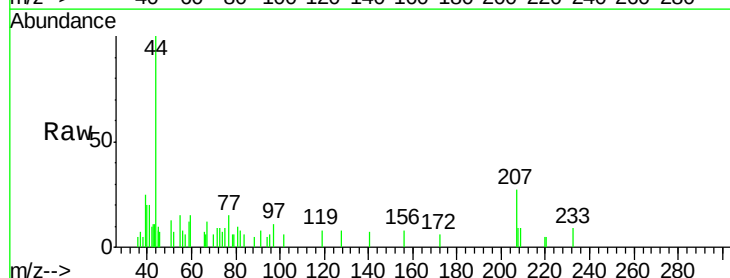
Acq: 28 Jun 2018 14:37

Tgt Ion: 59 Resp: 1143

Ion Ratio Lower Upper

59 100

57 21.2 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.69

600

500

400

300

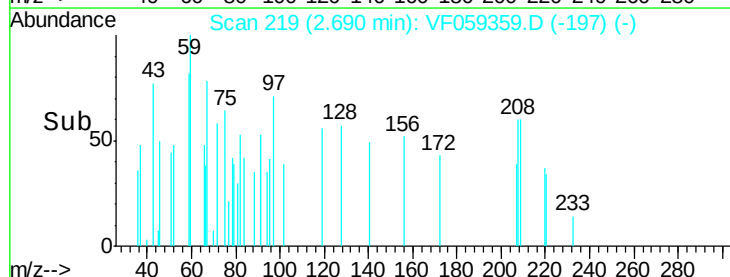
200

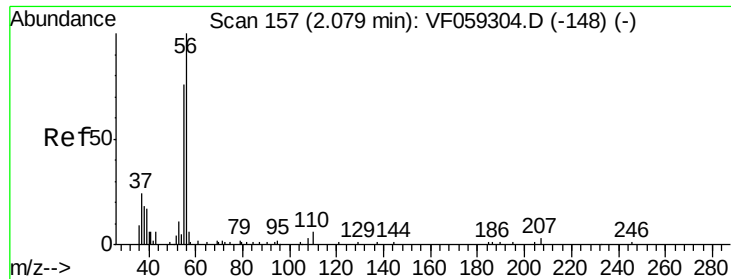
100

0

Time-->

2.60 2.65 2.70 2.75

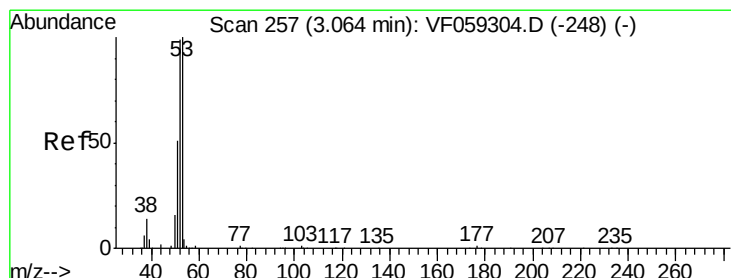
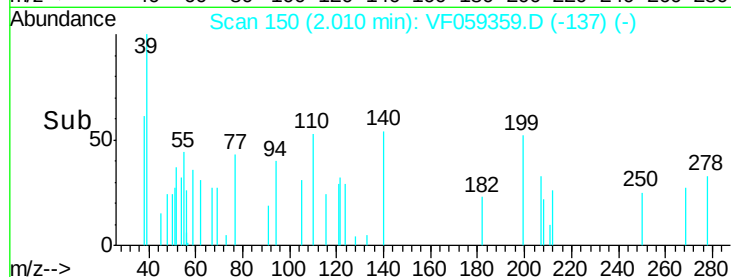
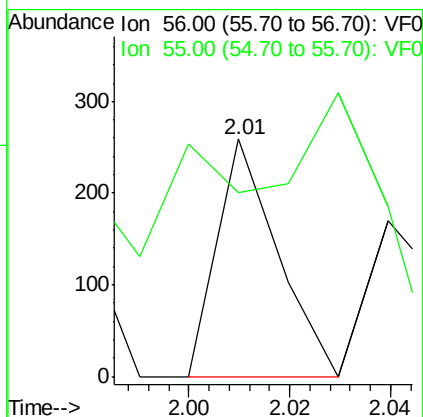
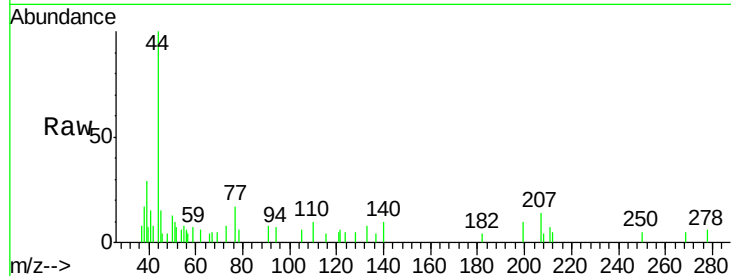




#13
Acrolein
Concen: Below Cal
RT: 2.01 min Scan# 150
Delta R.T. -0.07 min
Lab File: VF059359.D
Acq: 28 Jun 2018 14:37

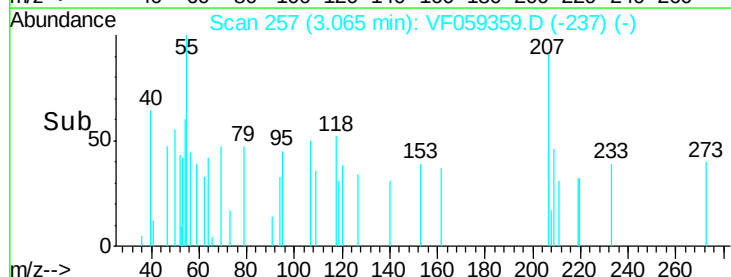
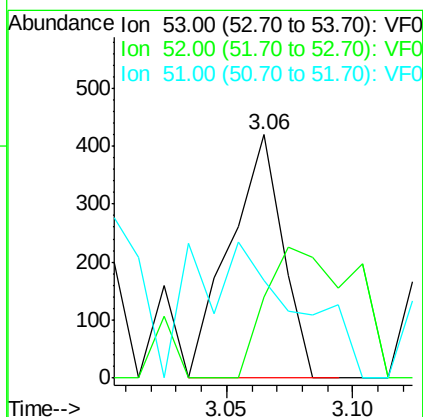
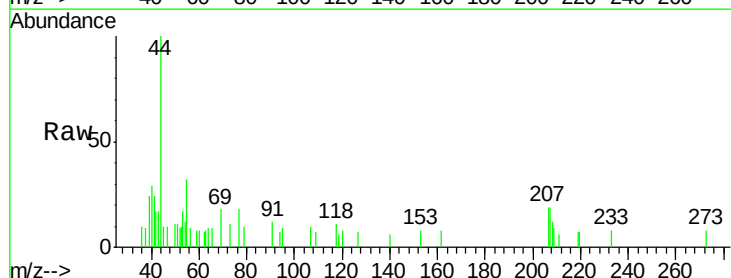
Instrument :
MSVOA_F
ClientSampleId :
OR-02-062618

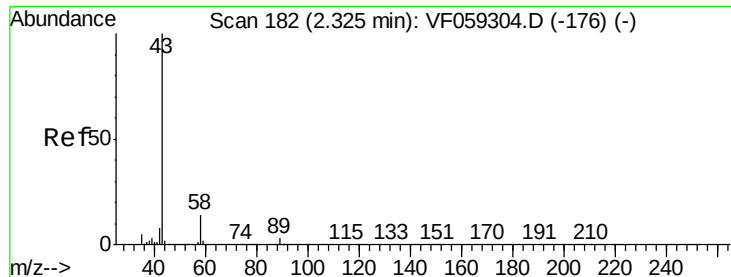
Tot Ion: 56 Resp: 214
Ion Ratio Lower Upper
56 100
55 77.6 62.4 93.6



#15
Acrylonitrile
Concen: 2.133 ug/l
RT: 3.06 min Scan# 257
Delta R.T. 0.00 min
Lab File: VF059359.D
Acq: 28 Jun 2018 14:37

Tgt Ion: 53 Resp: 609
Ion Ratio Lower Upper
53 100
52 69.3 79.2 118.8#
51 40.0 40.9 61.3#





#16

Acetone

Concen: 122.025 ug/l

RT: 2.34 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059359.D

Acq: 28 Jun 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

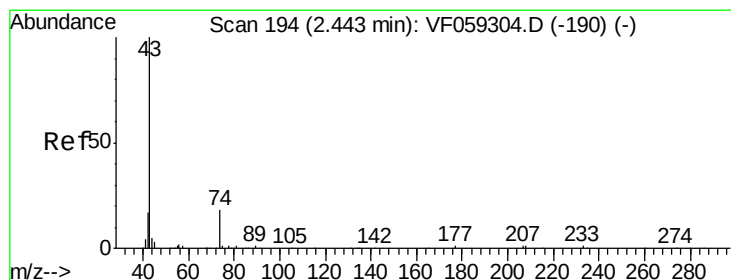
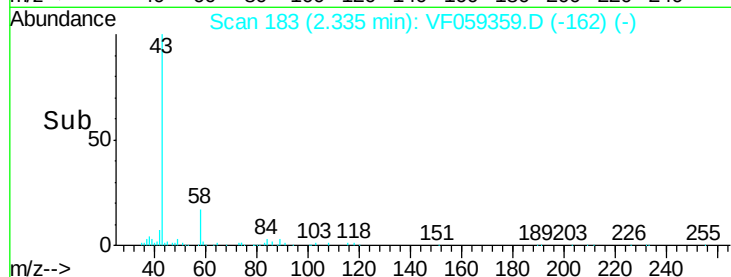
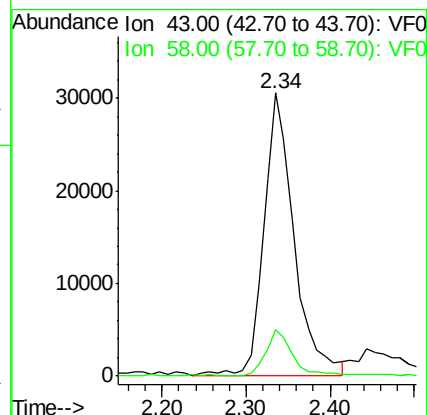
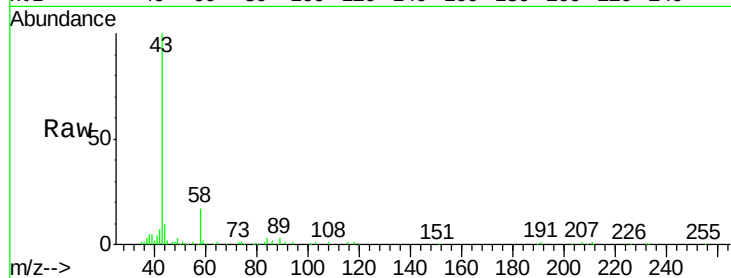
OR-02-062618

Tot Ion: 43 Resp: 77381

Ion Ratio Lower Upper

43 100

58 16.5 11.4 17.0



#18

Methyl Acetate

Concen: 7.378 ug/l

RT: 2.44 min Scan# 194

Delta R.T. 0.00 min

Lab File: VF059359.D

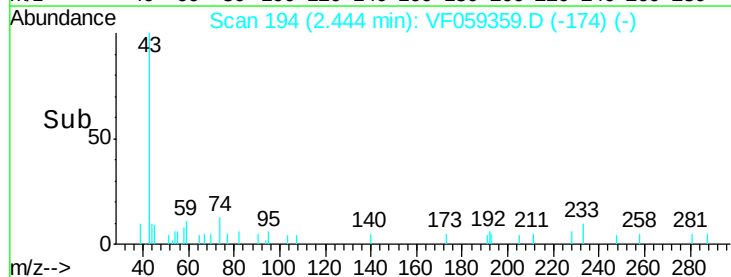
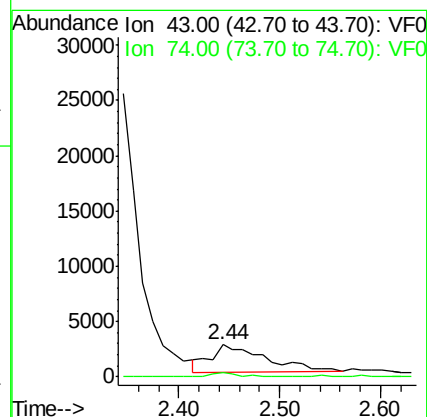
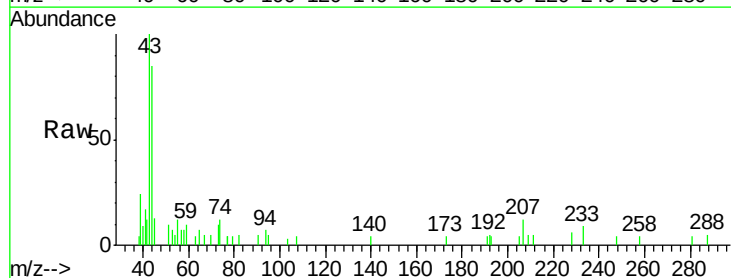
Acq: 28 Jun 2018 14:37

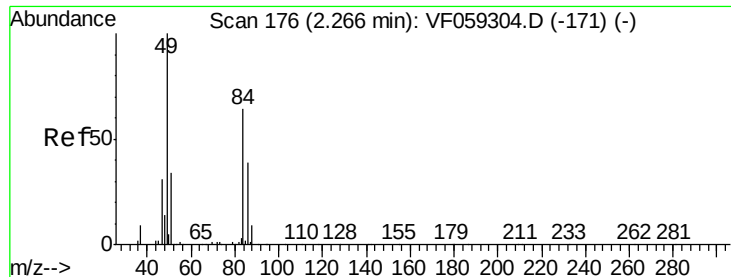
Tgt Ion: 43 Resp: 9199

Ion Ratio Lower Upper

43 100

74 12.0 13.3 19.9#



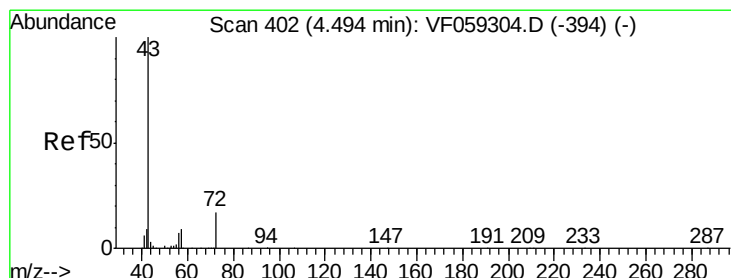
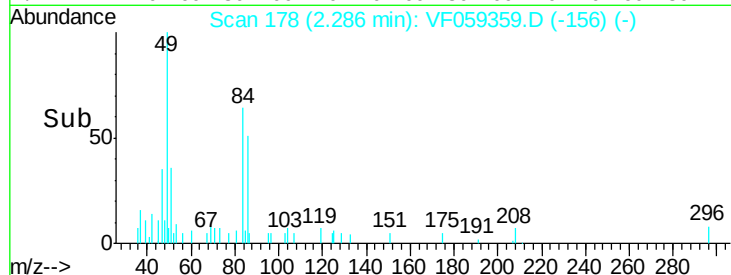
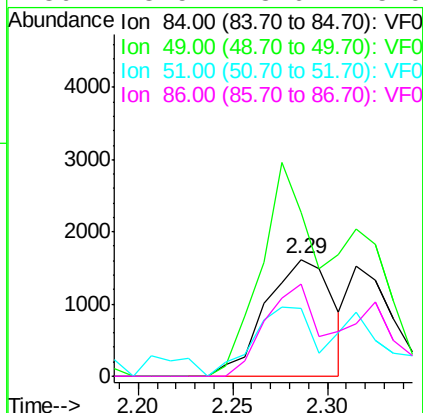
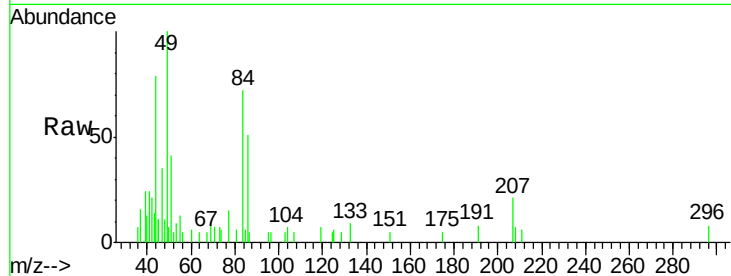


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.29 min Scan# 178
 Delta R.T. 0.02 min
 Lab File: VF059359.D
 Acq: 28 Jun 2018 14:37

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-02-062618

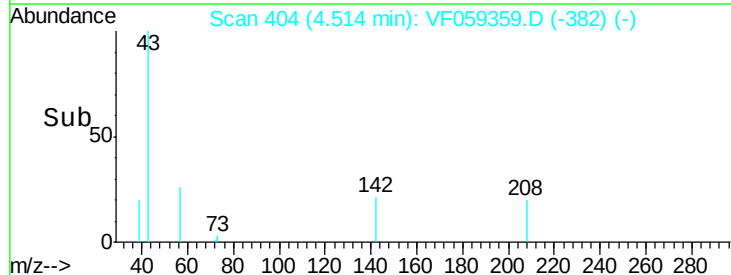
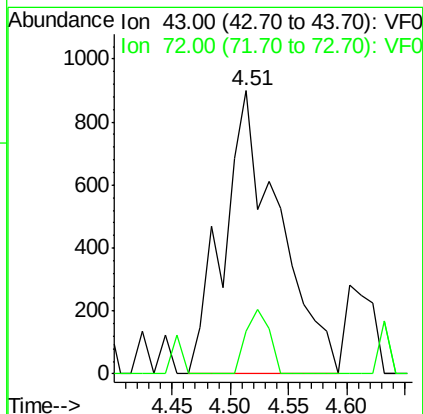
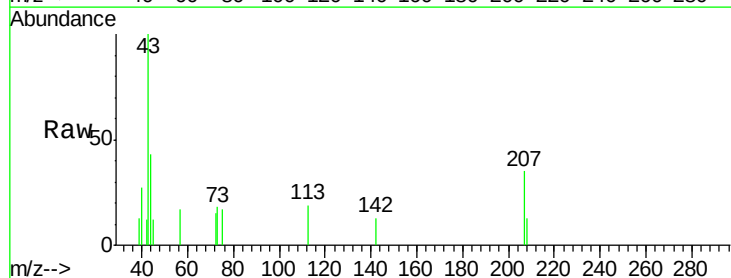
Tot Ion: 84 Resp: 3990
 Ion Ratio Lower Upper
 84 100
 49 139.6 126.5 189.7
 51 57.9 42.9 64.3
 86 78.5 48.6 73.0#

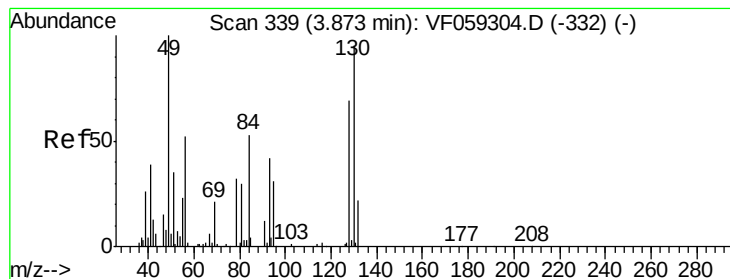


#25

2-Butanone
 Concen: 1.286 ug/l
 RT: 4.51 min Scan# 404
 Delta R.T. 0.02 min
 Lab File: VF059359.D
 Acq: 28 Jun 2018 14:37

Tgt Ion: 43 Resp: 2960
 Ion Ratio Lower Upper
 43 100
 72 15.1 14.4 21.6





#28

Bromochloromethane

Concen: Below Cal

RT: 3.90 min Scan# 342

Delta R.T. 0.03 min

Lab File: VF059359.D

Acq: 28 Jun 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

OR-02-062618

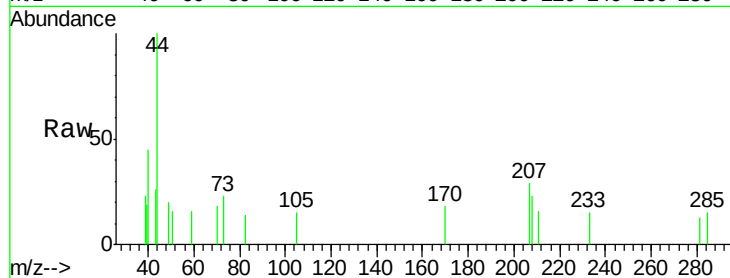
Tot Ion: 49 Resp: 173

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

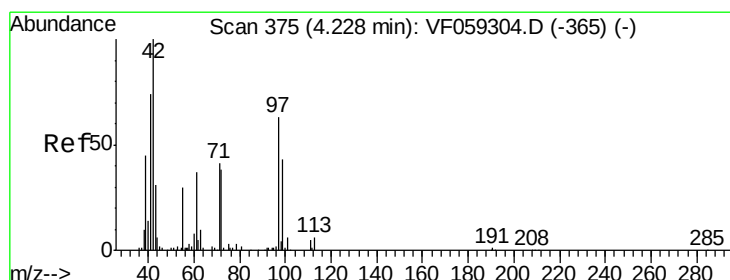
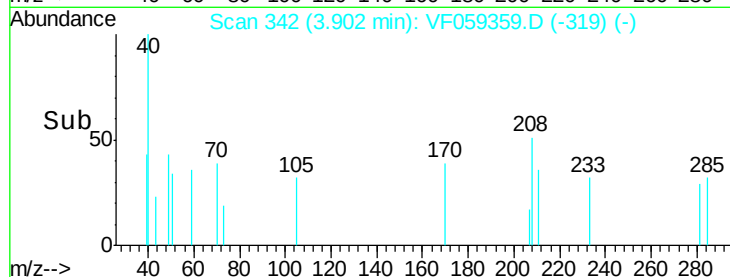
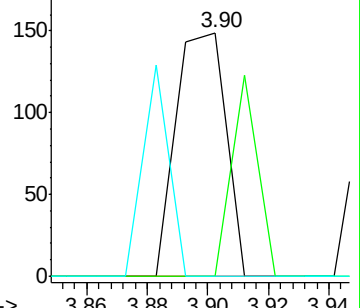
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): VF0

Ion 130.00 (129.70 to 130.70): VF0



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.27 min Scan# 379

Delta R.T. 0.04 min

Lab File: VF059359.D

Acq: 28 Jun 2018 14:37

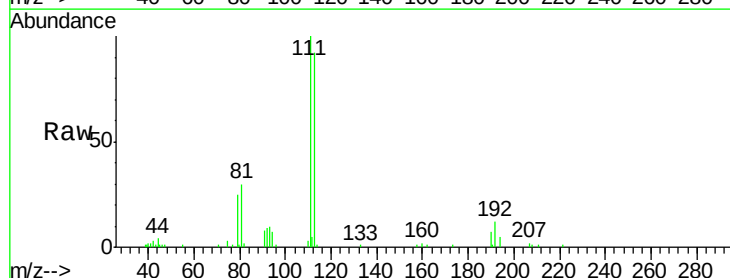
Tgt Ion: 42 Resp: 1176

Ion Ratio Lower Upper

42 100

72 8.2 30.5 45.7#

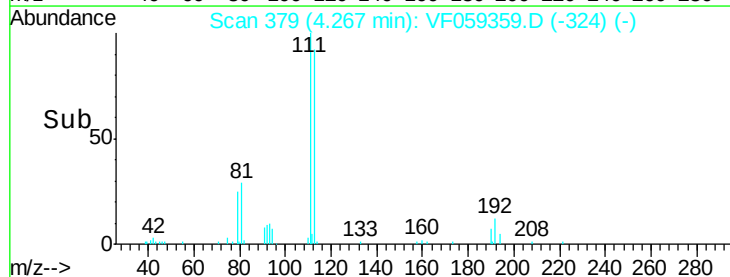
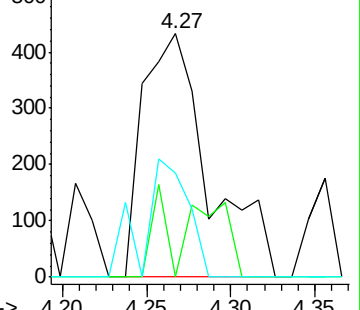
71 32.6 32.5 48.7

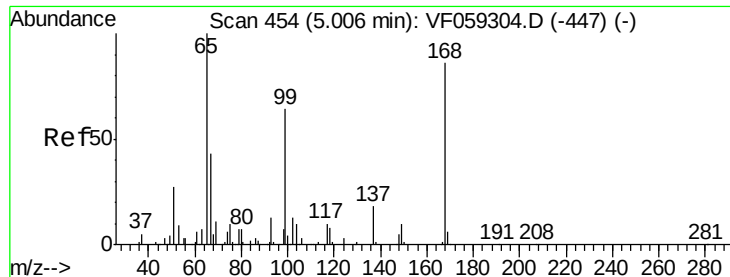


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

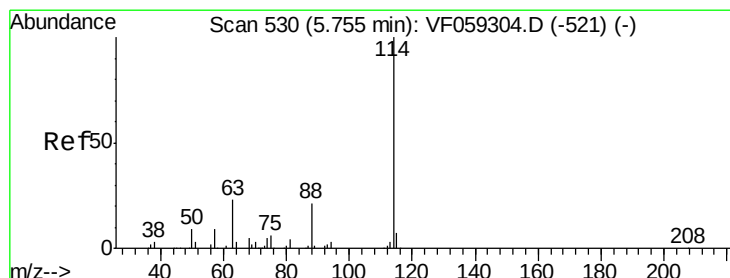
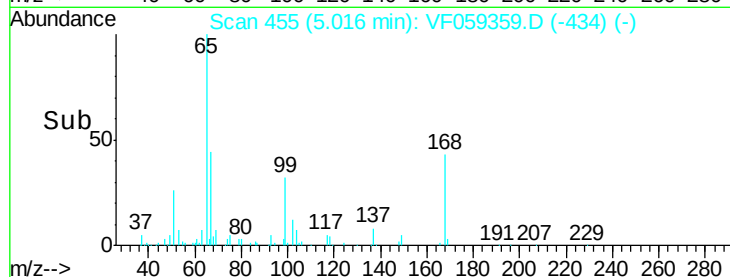
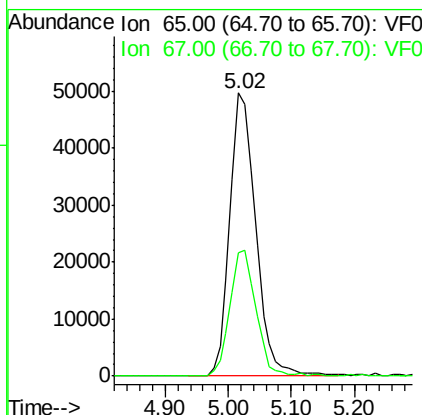
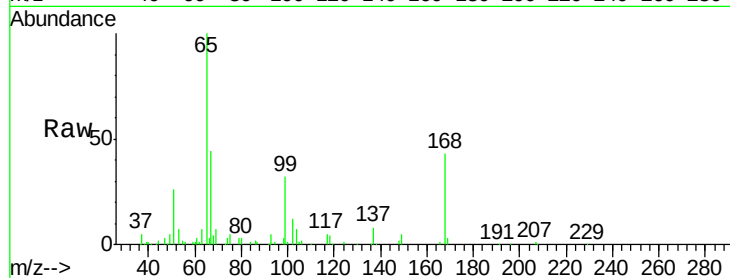




#33
 1,2-Dichloroethane-d4
 Concen: 58.511 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. 0.01 min
 Lab File: VF059359.D
 Acq: 28 Jun 2018 14:37

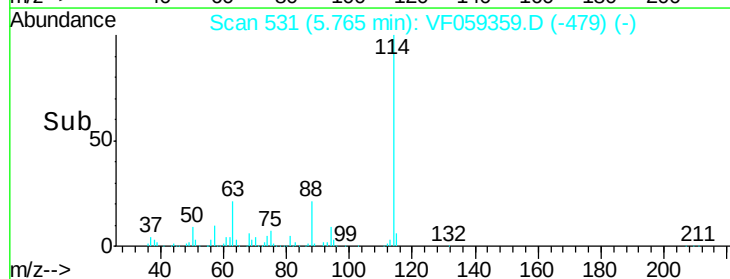
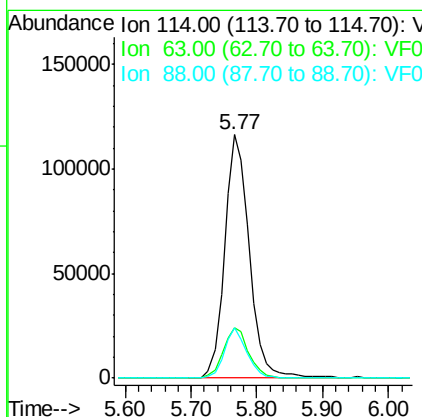
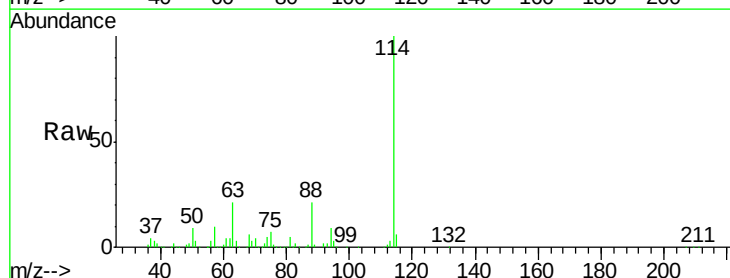
Instrument :
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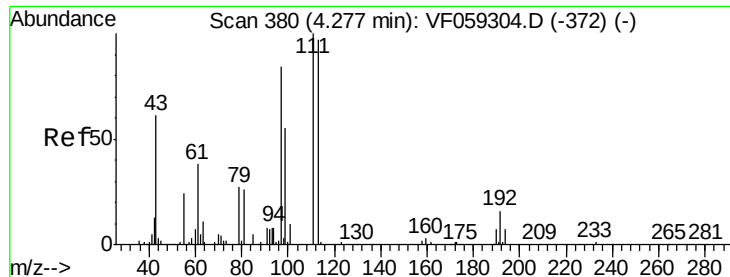
Tot Ion: 65 Resp: 142471
 Ion Ratio Lower Upper
 65 100
 67 43.7 0.0 96.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VF059359.D
 Acq: 28 Jun 2018 14:37

Tgt Ion: 114 Resp: 304780
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 45.8
 88 20.7 0.0 41.2





#35

Dibromofluoromethane

Concen: 59.529 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.02 min

Lab File: VF059359.D

Acq: 28 Jun 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

OR-02-062618

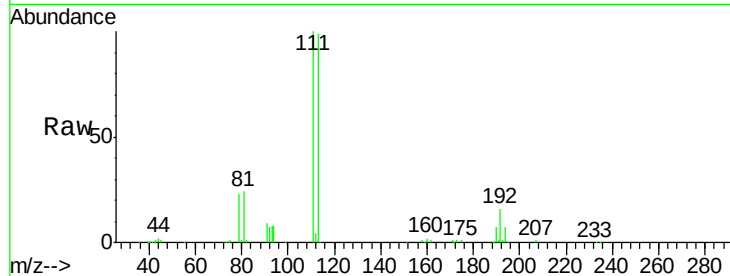
Tot Ion:113 Resp: 132566

Ion Ratio Lower Upper

113 100

111 101.4 82.1 123.1

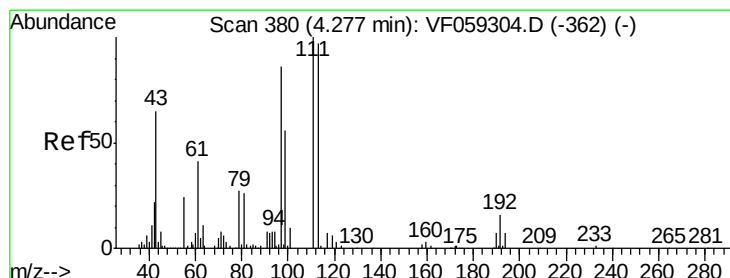
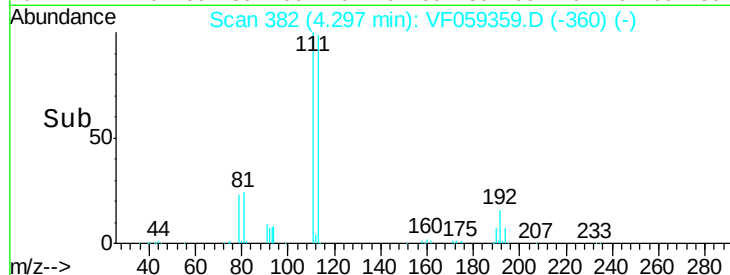
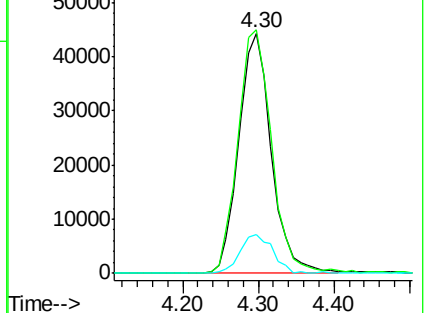
192 16.3 13.0 19.6



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



#37

Ethyl Acetate

Concen: Below Cal

RT: 4.30 min Scan# 382

Delta R.T. 0.02 min

Lab File: VF059359.D

Acq: 28 Jun 2018 14:37

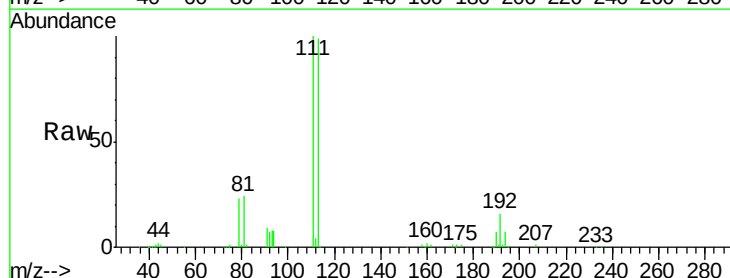
Tgt Ion: 43 Resp: 499

Ion Ratio Lower Upper

43 100

61 0.0 50.1 75.1#

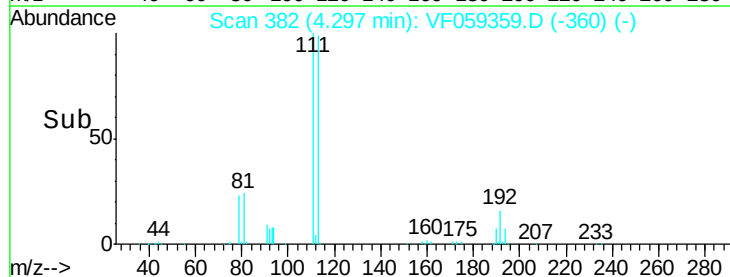
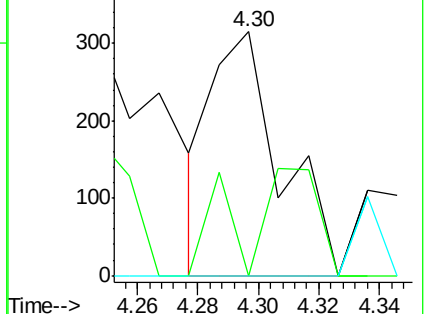
70 0.0 6.2 9.4#

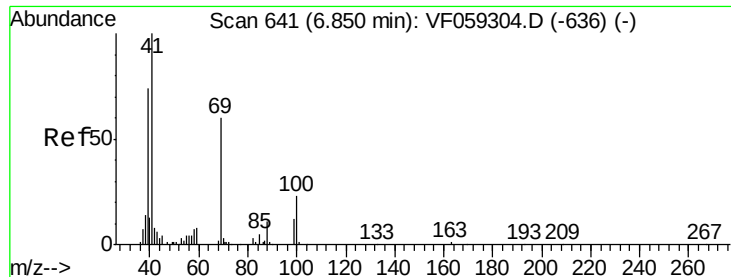


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.91 min Scan# 647

Delta R.T. 0.06 min

Lab File: VF059359.D

Acq: 28 Jun 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

OR-02-062618

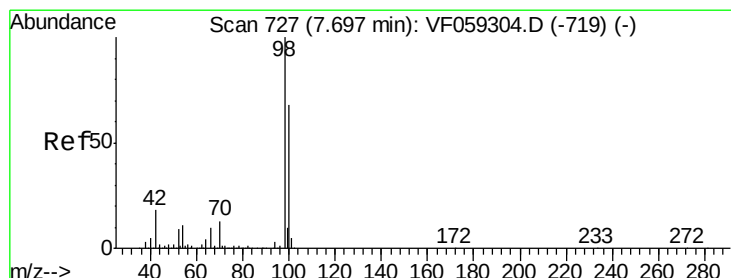
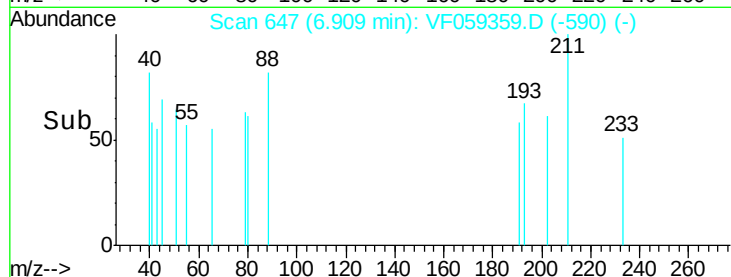
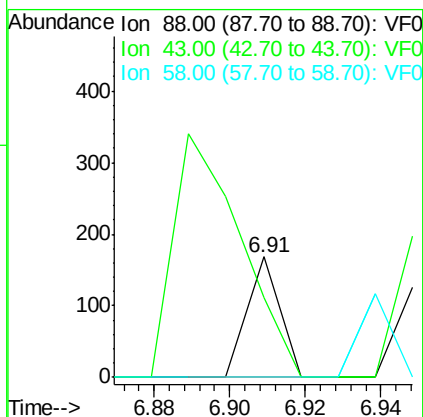
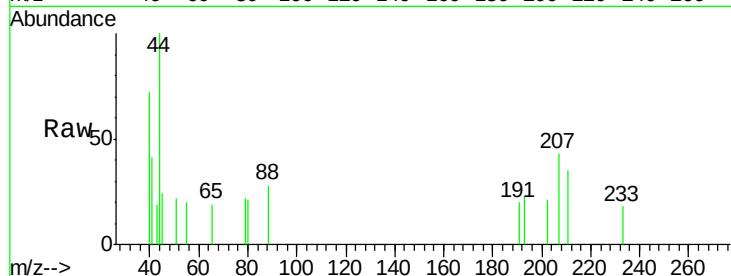
Tot Ion: 88 Resp: 99

Ion Ratio Lower Upper

88 100

43 66.7 50.6 75.8

58 0.0 46.6 69.8#



#50

Toluene-d8

Concen: 51.188 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF059359.D

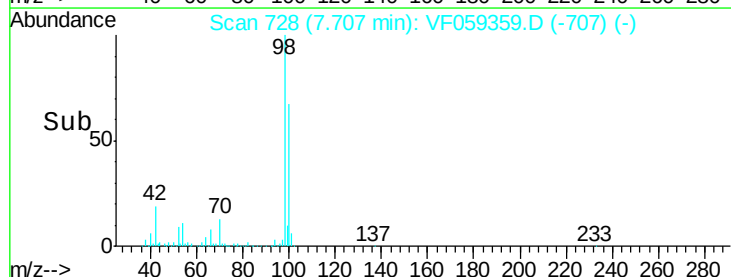
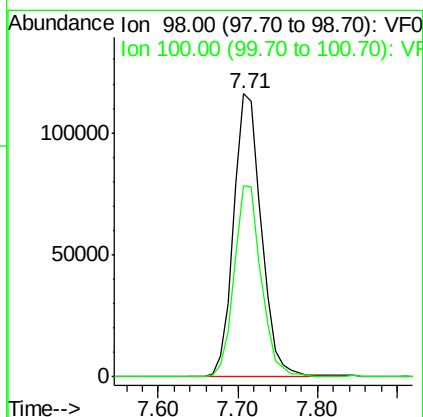
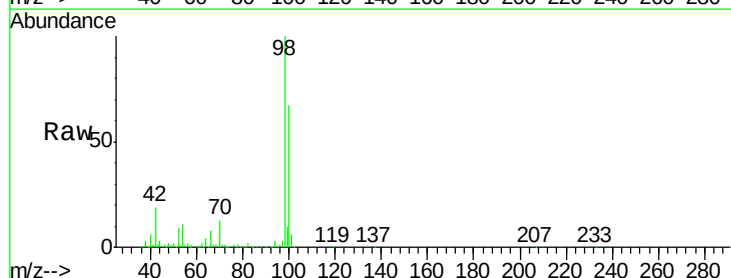
Acq: 28 Jun 2018 14:37

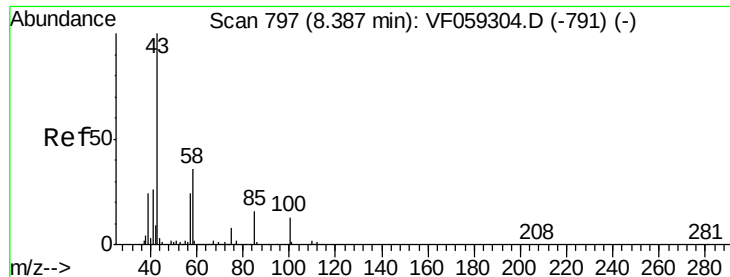
Tgt Ion: 98 Resp: 282235

Ion Ratio Lower Upper

98 100

100 67.4 54.6 82.0





#51

4-Methyl-2-Pentanone

Concen: 1.065 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.03 min

Lab File: VF059359.D

Acq: 28 Jun 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

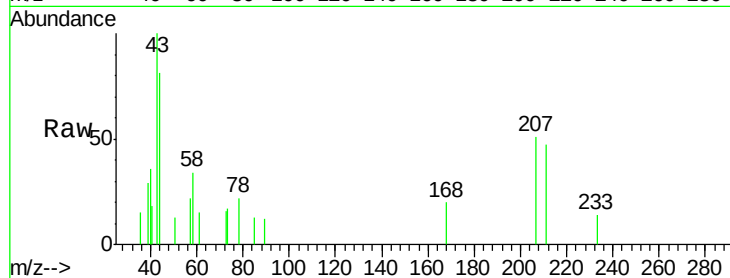
OR-02-062618

Tot Ion: 43 Resp: 1749

Ion Ratio Lower Upper

43 100

58 34.4 28.4 42.6



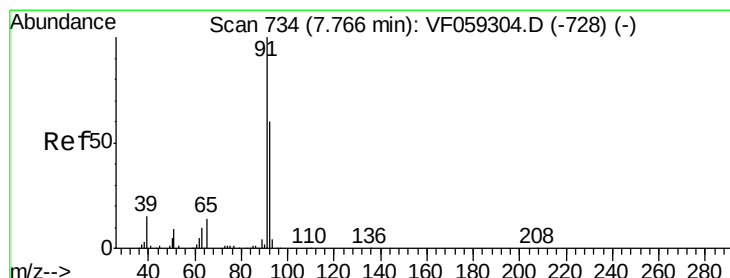
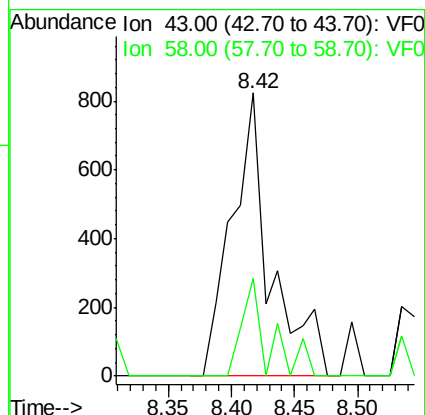
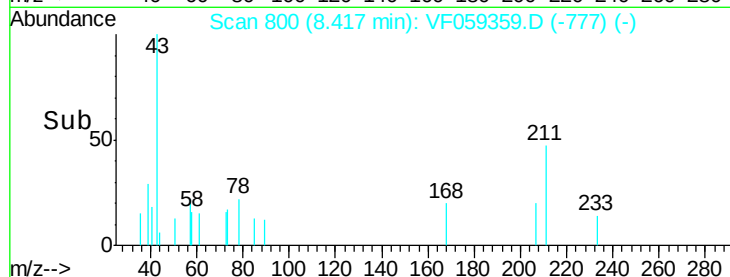
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.42

8.45

8.50



#58

2-Chloroethyl Vinyl ether

Concen: 1.174 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.02 min

Lab File: VF059359.D

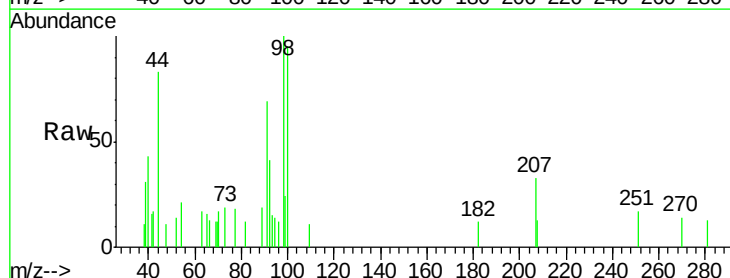
Acq: 28 Jun 2018 14:37

Tgt Ion: 63 Resp: 187

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

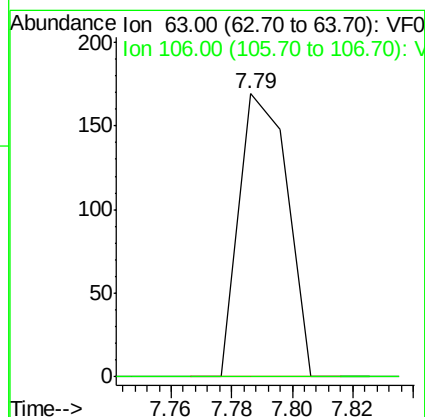
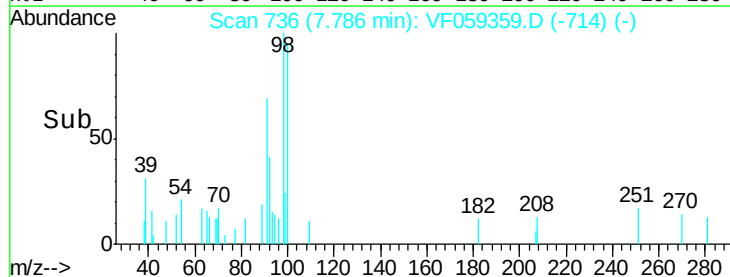


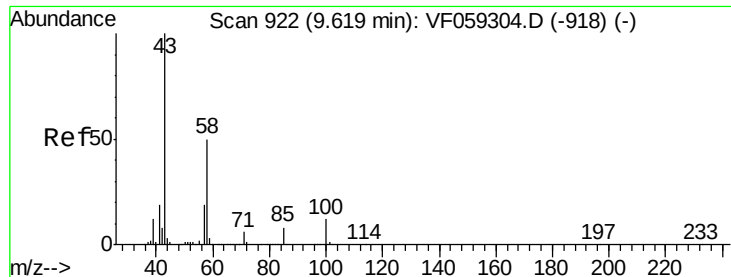
Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.79

7.82

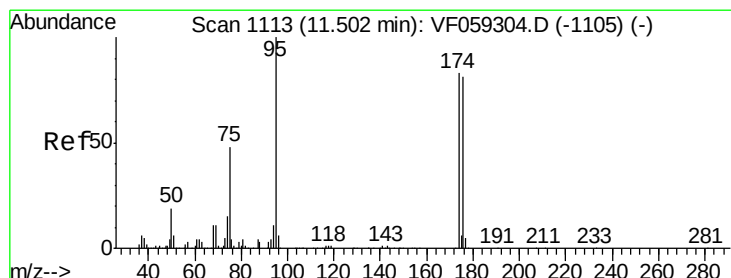
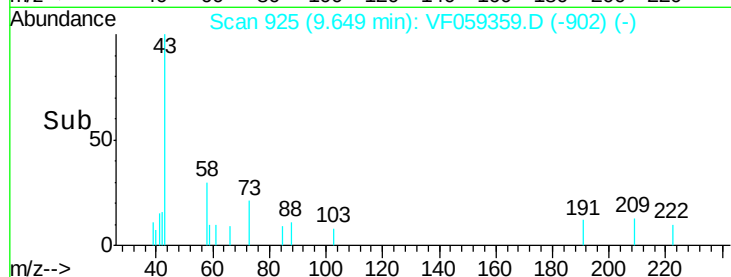
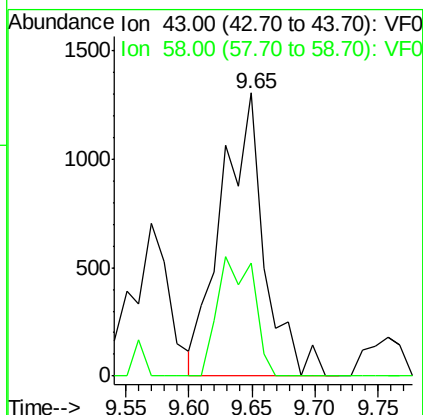
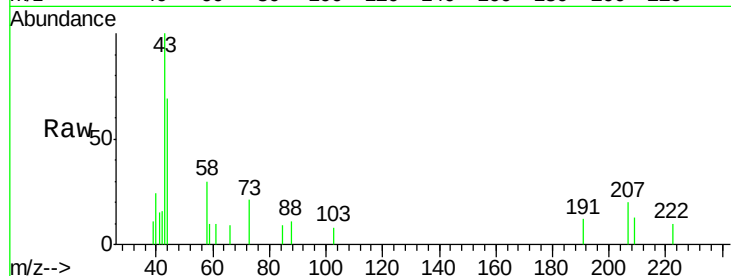




#59
2-Hexanone
Concen: Below Cal
RT: 9.65 min Scan# 925
Delta R.T. 0.03 min
Lab File: VF059359.D
Acq: 28 Jun 2018 14:37

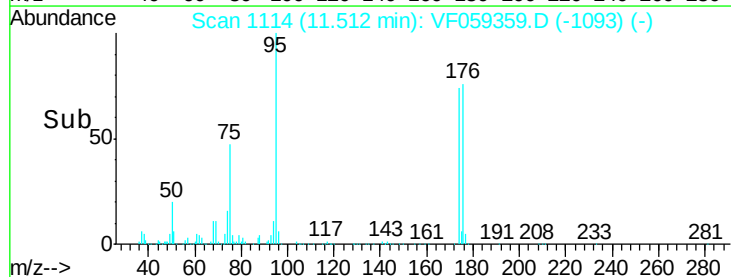
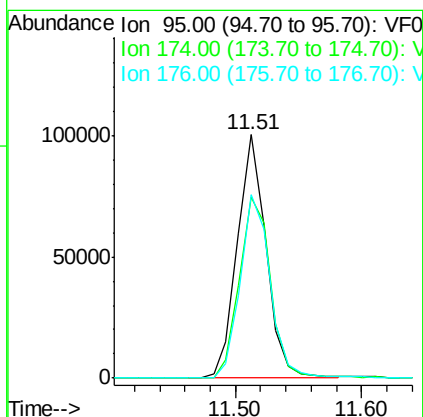
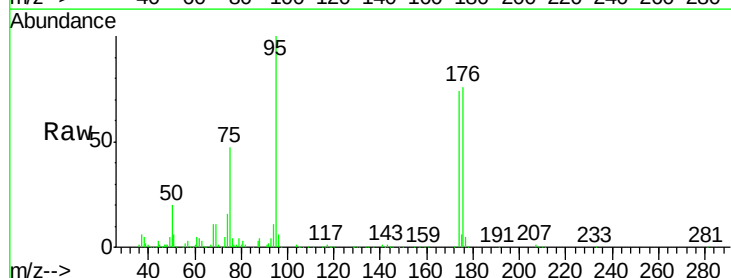
Instrument :
MSVOA_F
ClientSampleId :
OR-02-062618

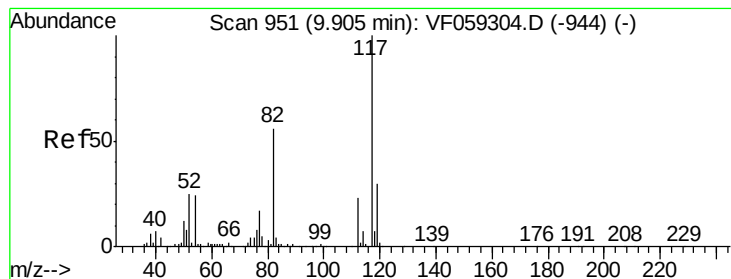
Tot Ion: 43 Resp: 3045
Ion Ratio Lower Upper
43 100
58 40.2 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 51.217 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. 0.01 min
Lab File: VF059359.D
Acq: 28 Jun 2018 14:37

Tgt Ion: 95 Resp: 159295
Ion Ratio Lower Upper
95 100
174 74.3 0.0 165.2
176 75.6 0.0 161.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF059359.D

Acq: 28 Jun 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

OR-02-062618

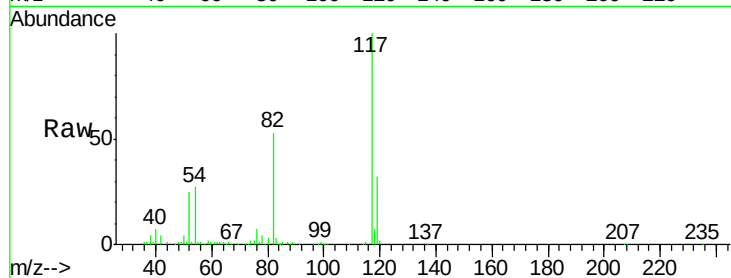
Tot Ion:117 Resp: 290479

Ion Ratio Lower Upper

117 100

82 53.2 44.6 66.8

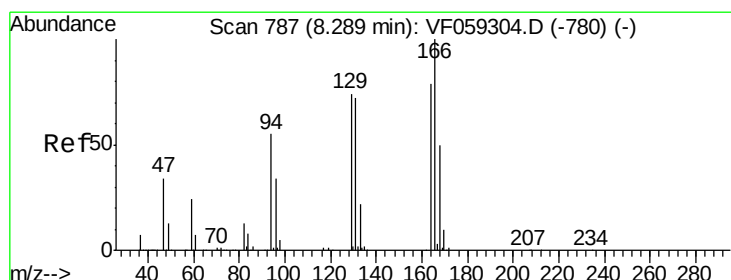
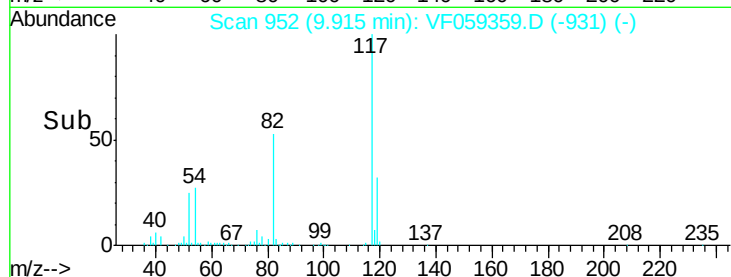
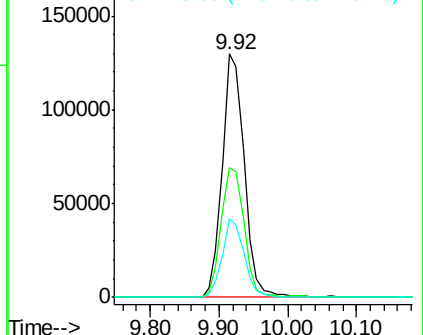
119 32.1 24.1 36.1



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



#64

Tetrachloroethene

Concen: 1.949 ug/l

RT: 8.32 min Scan# 790

Delta R.T. 0.03 min

Lab File: VF059359.D

Acq: 28 Jun 2018 14:37

Tgt Ion:164 Resp: 3671

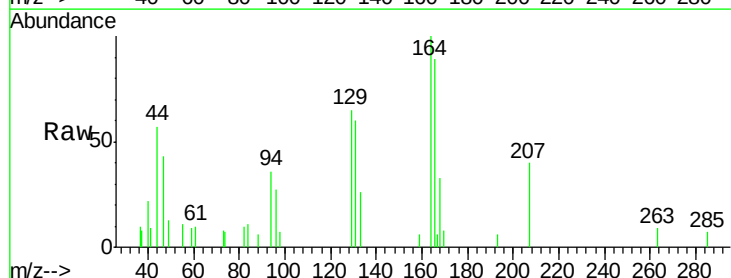
Ion Ratio Lower Upper

164 100

166 89.3 101.1 151.7#

129 64.9 75.0 112.4#

131 59.7 73.3 109.9#

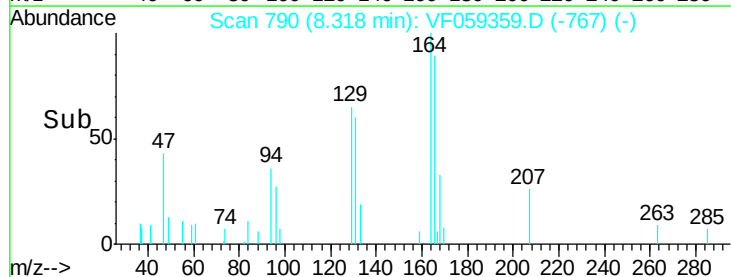
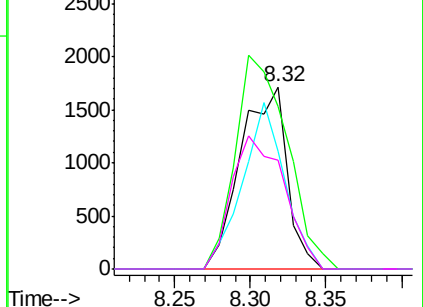


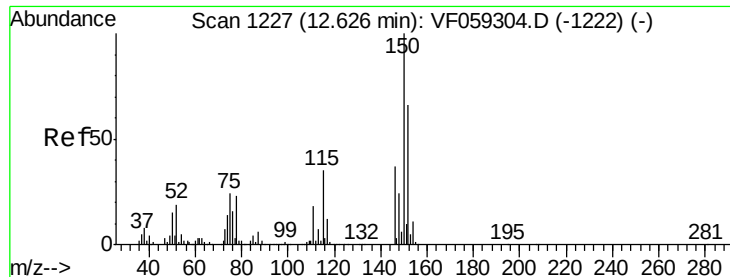
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.01 min

Lab File: VF059359.D

Acq: 28 Jun 2018 14:37

Instrument :

MSVOA_F

ClientSampleId :

OR-02-062618

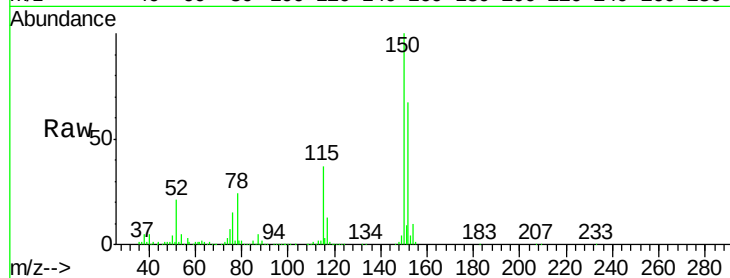
Tot Ion:152 Resp: 163545

Ion Ratio Lower Upper

152 100

115 56.0 27.1 81.3

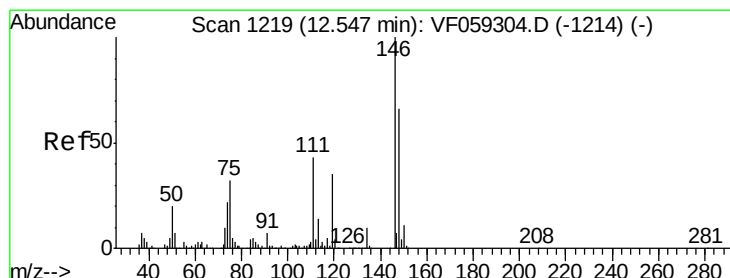
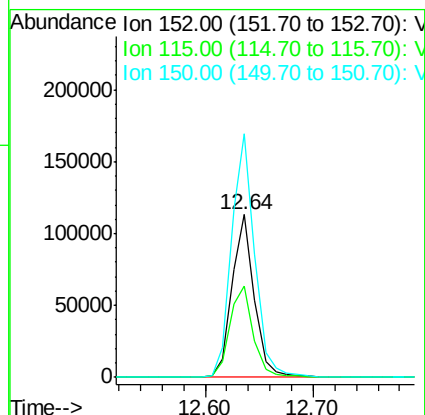
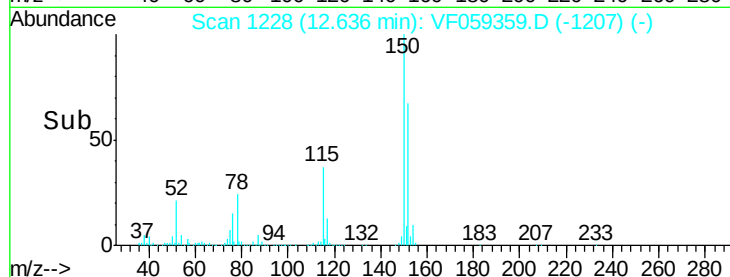
150 149.6 0.0 305.2



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



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.56 min Scan# 1220

Delta R.T. 0.01 min

Lab File: VF059359.D

Acq: 28 Jun 2018 14:37

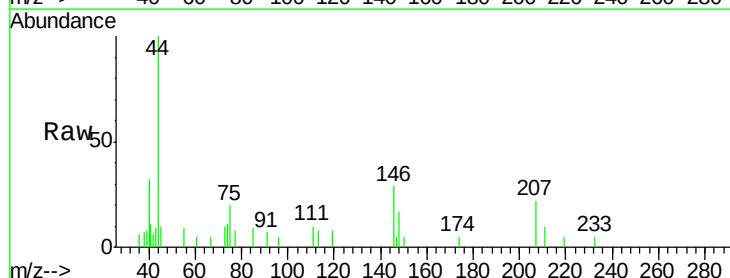
Tgt Ion:146 Resp: 905

Ion Ratio Lower Upper

146 100

111 36.4 21.4 64.2

148 60.0 32.8 98.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

