

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059336.D
 Acq On : 27 Jun 2018 13:56
 Operator : VA/AP
 Sample : J3684-07RE
 Misc : 6.12g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 27 16:04:18 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	237133	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	372836	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	361806	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	216609	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	148101	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
35) Dibromofluoromethane	4.29	113	134907	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
50) Toluene-d8	7.70	98	315983	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	
62) 4-Bromofluorobenzene	11.50	95	175364	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	

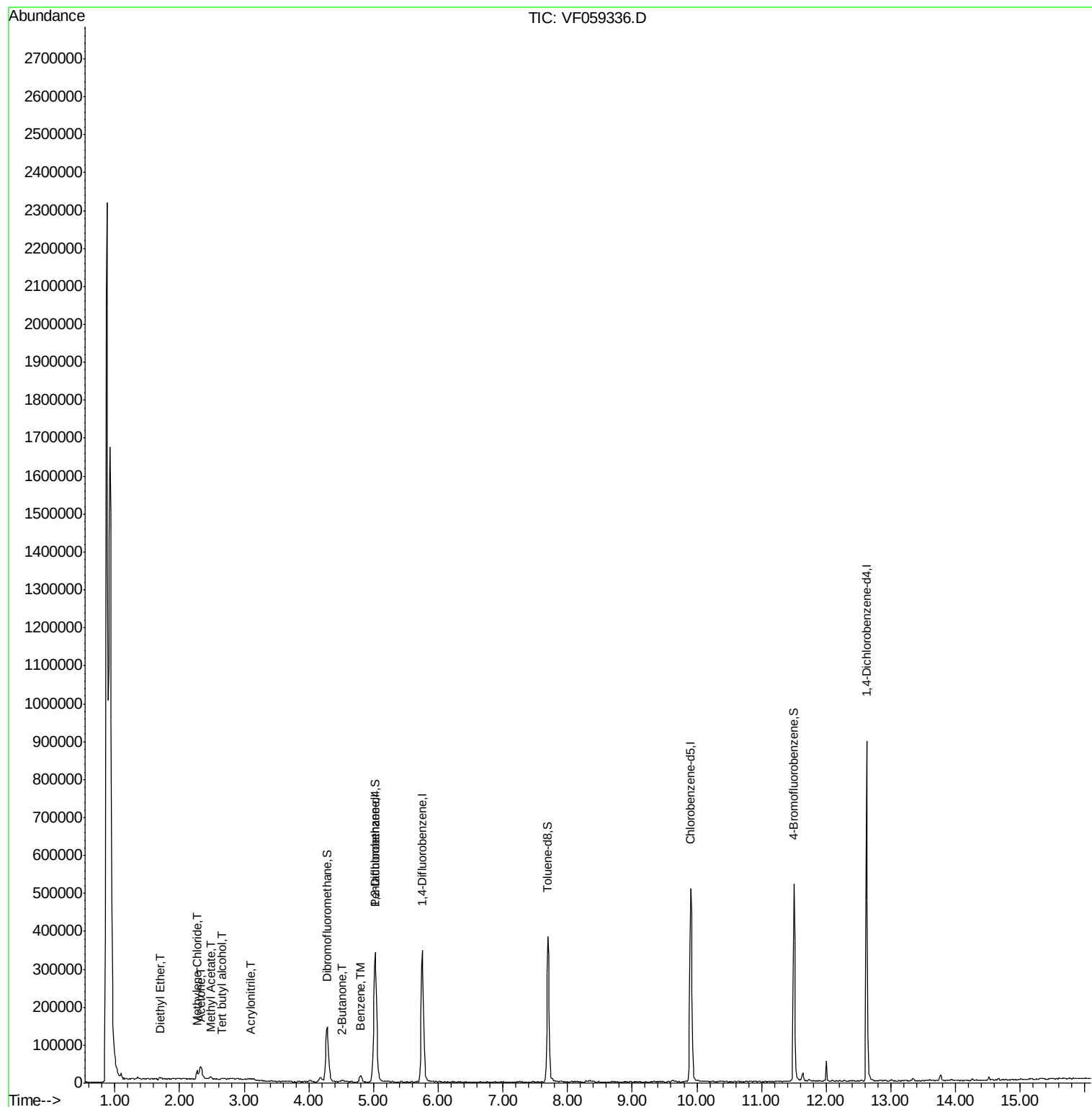
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.33	94	441	Below Cal	#	61
8) Diethyl Ether	1.69	74	1081	1.49	ug/l	84
11) Tert butyl alcohol	2.65	59	532	2.61	ug/l	# 49
13) Acrolein	2.08	56	597	Below Cal	#	21
15) Acrylonitrile	3.08	53	780	2.17	ug/l	# 24
16) Acetone	2.33	43	49528	56.85	ug/l	96
18) Methyl Acetate	2.49	43	3671	1.53	ug/l	# 61
20) Methylene Chloride	2.27	84	14448	1.20	ug/l	85
25) 2-Butanone	4.50	43	7491	5.39	ug/l	# 90
28) Bromochloromethane	3.79	49	66	Below Cal	#	6
29) Tetrahydrofuran	4.27	42	1027	Below Cal	#	87
37) Ethyl Acetate	4.31	43	448	Below Cal	#	26
40) Benzene	4.80	78	20202	2.80	ug/l	95
49) 1,4-Dioxane	6.87	88	79	Below Cal	#	20
59) 2-Hexanone	9.62	43	3630	Below Cal		97
87) 1,3-Dichlorobenzene	12.55	146	835	Below Cal		89

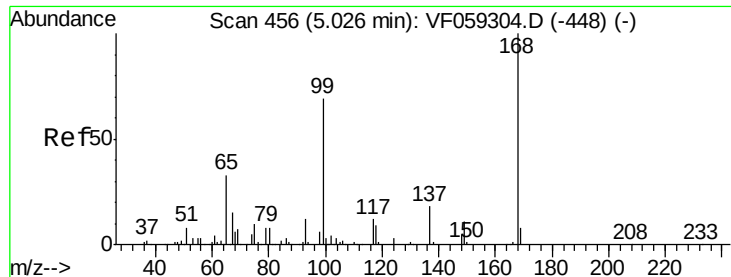
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF059336.D

Acq: 27 Jun 2018 13:56

Instrument :

MSVOA_F

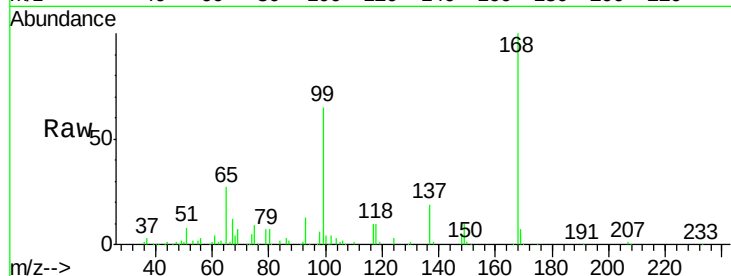
ClientSampleId :

Tot Ion:168 Resp: 237133

Ion Ratio Lower Upper

168 100

99 65.2 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

60000

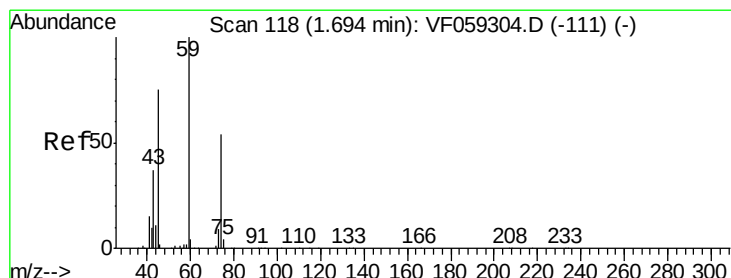
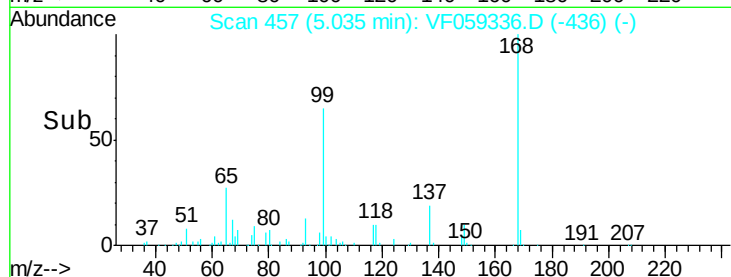
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#8

Diethyl Ether

Concen: 1.49 ug/l

RT: 1.69 min Scan# 118

Delta R.T. -0.00 min

Lab File: VF059336.D

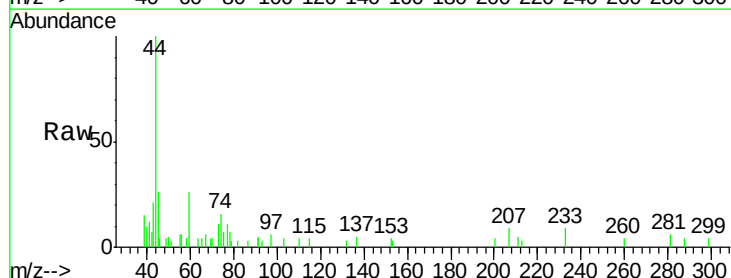
Acq: 27 Jun 2018 13:56

Tgt Ion: 74 Resp: 1081

Ion Ratio Lower Upper

74 100

45 159.9 70.0 210.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1200

1000

800

600

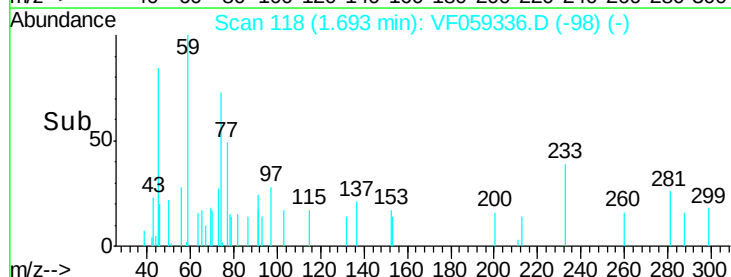
400

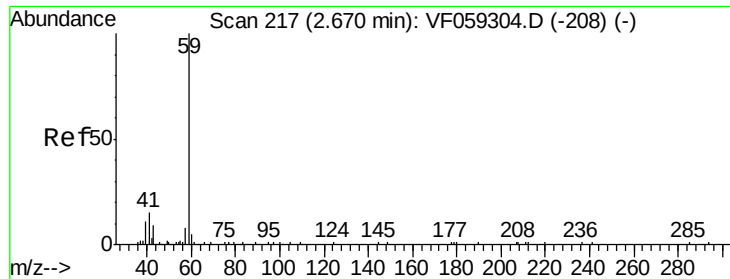
200

0

Time-->

1.65 1.70 1.75

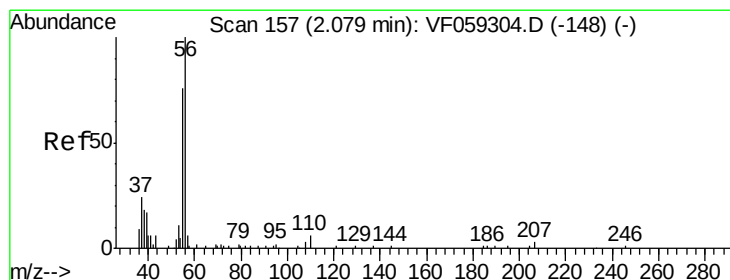
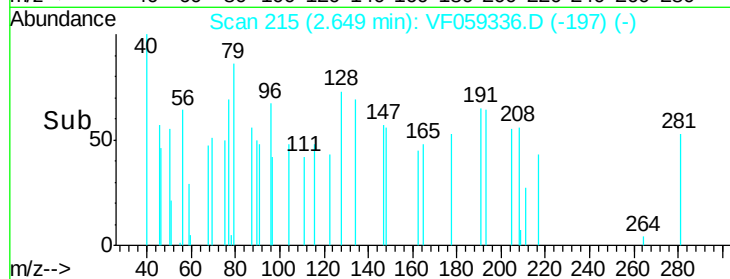
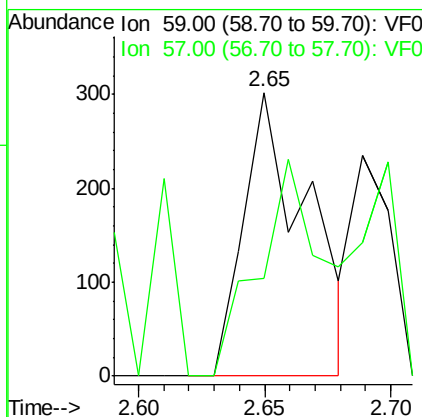
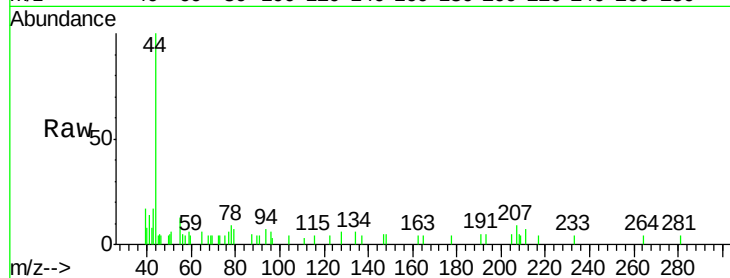




#11
Tert butyl alcohol
Concen: 2.61 ua/l
RT: 2.65 min Scan# 215
Delta R.T. -0.02 min
Lab File: VF059336.D
Acq: 27 Jun 2018 13:56

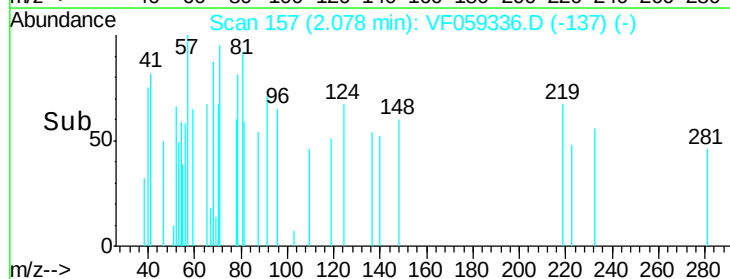
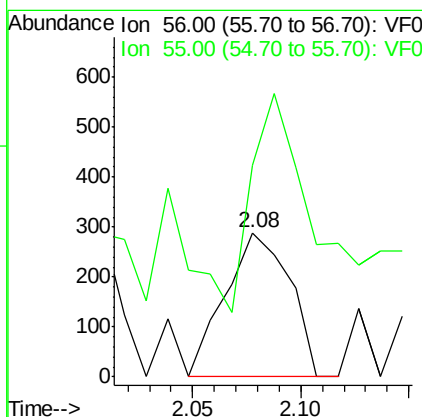
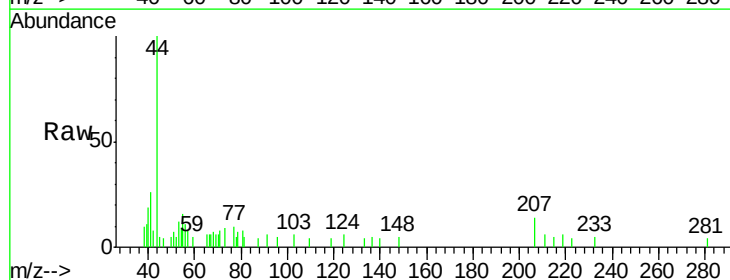
Instrument :
MSVOA_F
ClientSampleId :

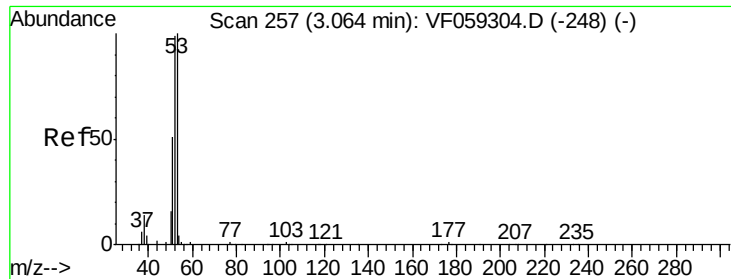
Tot Ion: 59 Resp: 532
Ion Ratio Lower Upper
59 100
57 34.4 11.0 16.4#



#13
Acrolein
Concen: Below Cal
RT: 2.08 min Scan# 157
Delta R.T. -0.00 min
Lab File: VF059336.D
Acq: 27 Jun 2018 13:56

Tgt Ion: 56 Resp: 597
Ion Ratio Lower Upper
56 100
55 146.4 62.4 93.6#

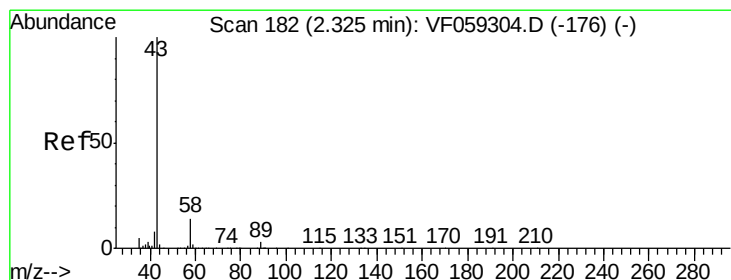
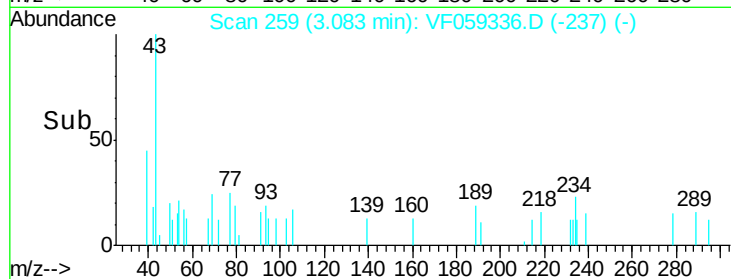
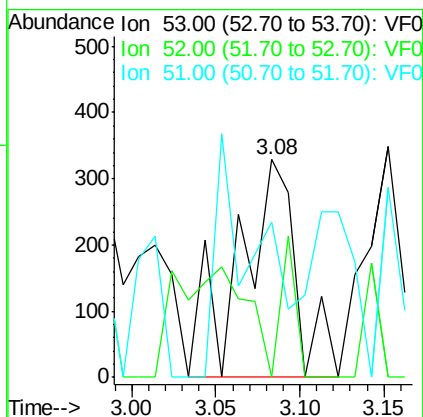
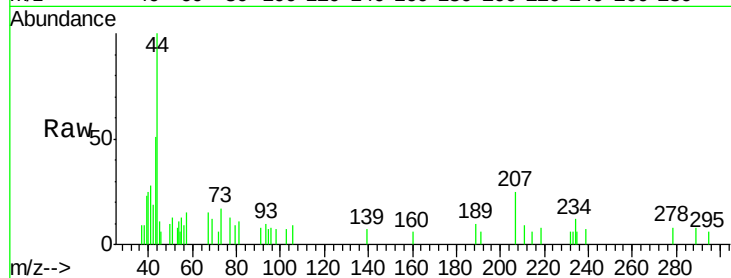




#15
 Acrylonitrile
 Concen: 2.17 ug/l
 RT: 3.08 min Scan# 259
 Delta R.T. 0.02 min
 Lab File: VF059336.D
 Acq: 27 Jun 2018 13:56

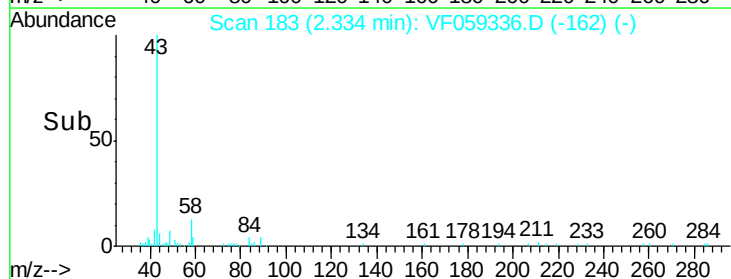
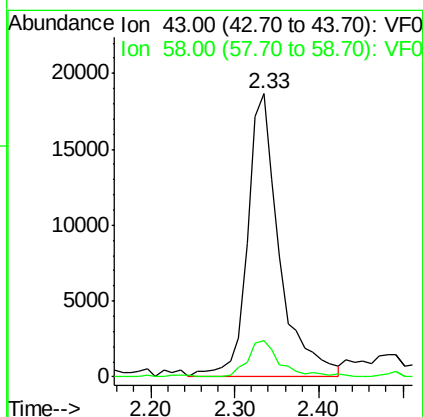
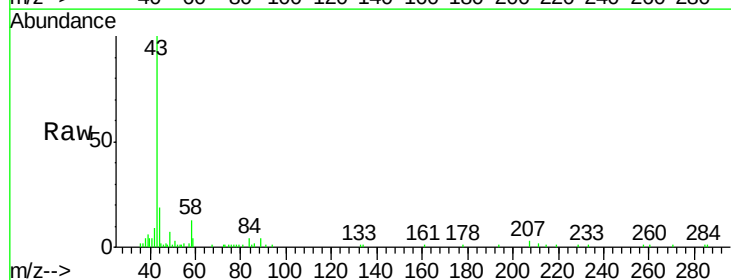
Instrument :
 MSVOA_F
 ClientSampleId :

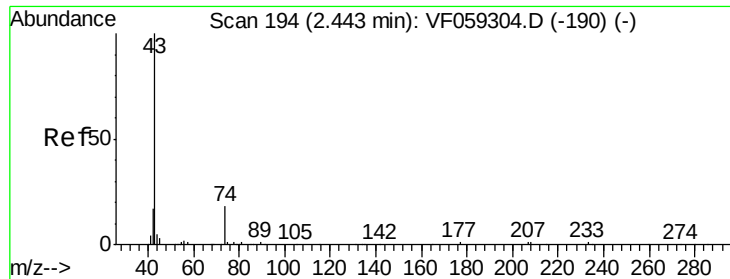
Tot Ion: 53 Resp: 780
 Ion Ratio Lower Upper
 53 100
 52 0.0 79.2 118.8#
 51 71.4 40.9 61.3#



#16
 Acetone
 Concen: 56.85 ug/l
 RT: 2.33 min Scan# 183
 Delta R.T. 0.01 min
 Lab File: VF059336.D
 Acq: 27 Jun 2018 13:56

Tgt Ion: 43 Resp: 49528
 Ion Ratio Lower Upper
 43 100
 58 12.8 11.4 17.0

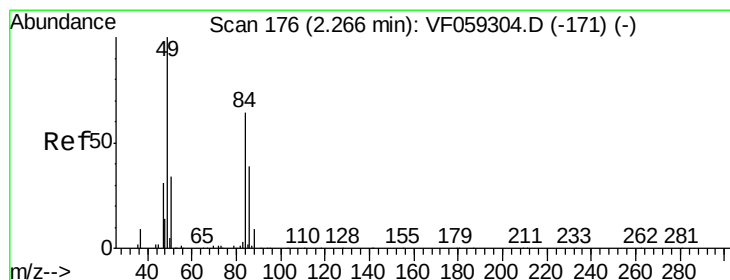
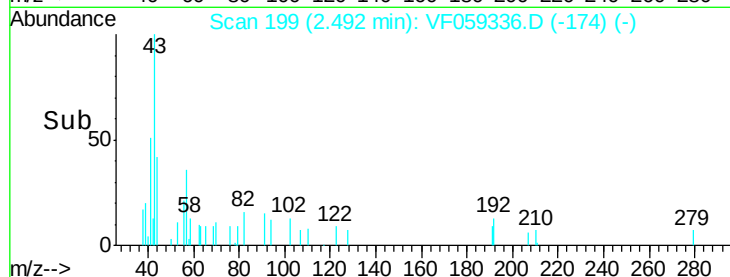
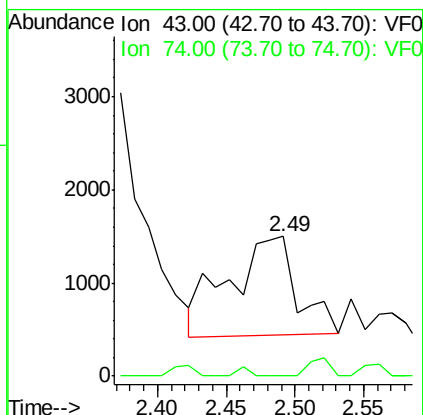
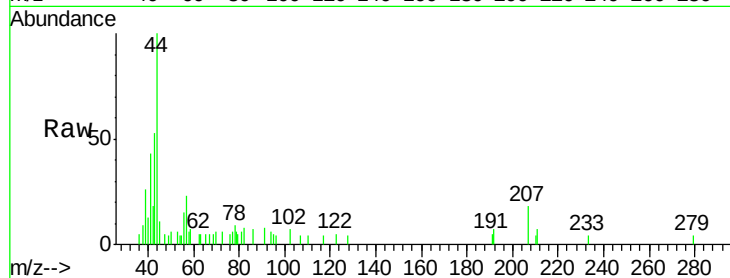




#18
Methyl Acetate
Concen: 1.53 ug/l
RT: 2.49 min Scan# 199
Delta R.T. 0.05 min
Lab File: VF059336.D
Acq: 27 Jun 2018 13:56

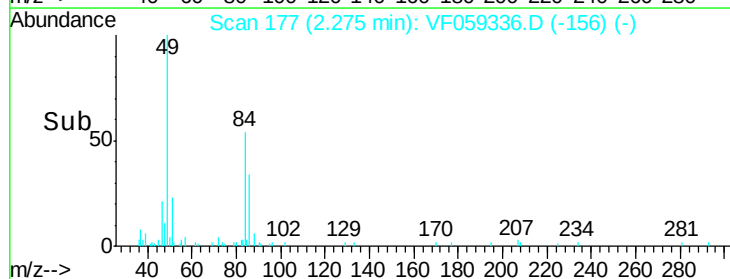
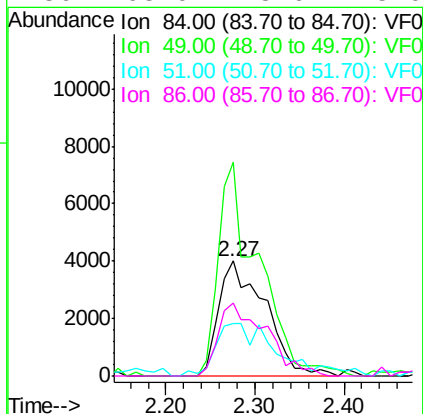
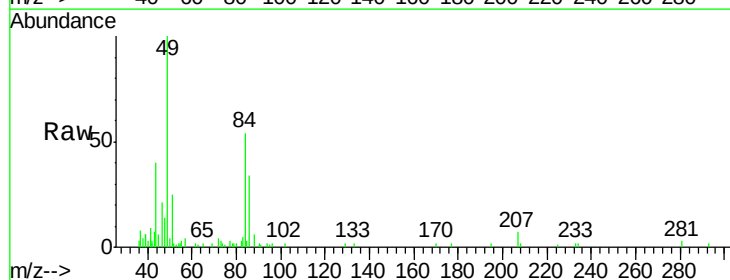
Instrument :
MSVOA_F
ClientSampled :

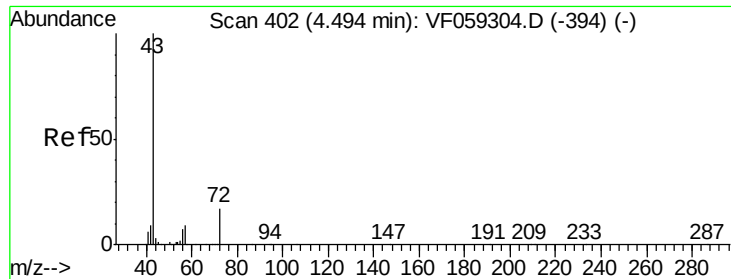
Tot Ion: 43 Resp: 3671
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#20
Methylene Chloride
Concen: 1.20 ug/l
RT: 2.27 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF059336.D
Acq: 27 Jun 2018 13:56

Tgt Ion: 84 Resp: 14448
Ion Ratio Lower Upper
84 100
49 185.9 126.5 189.7
51 46.0 42.9 64.3
86 63.0 48.6 73.0





#25

2-Butanone

Concen: 5.39 ug/l

RT: 4.50 min Scan# 403

Delta R.T. 0.01 min

Lab File: VF059336.D

Acq: 27 Jun 2018 13:56

Instrument :

MSVOA_F

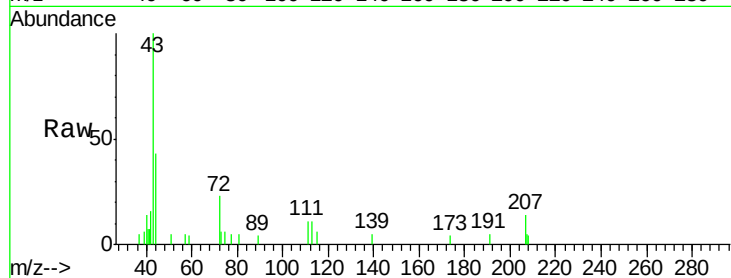
ClientSampled :

Tot Ion: 43 Resp: 7491

Ion Ratio Lower Upper

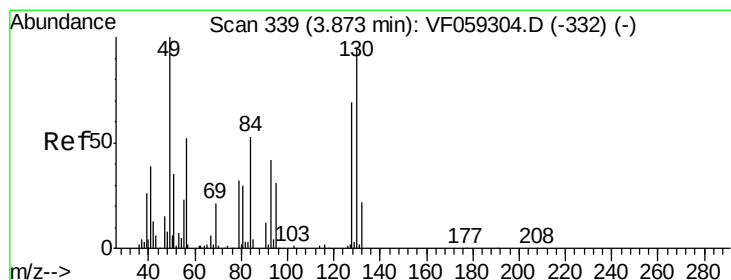
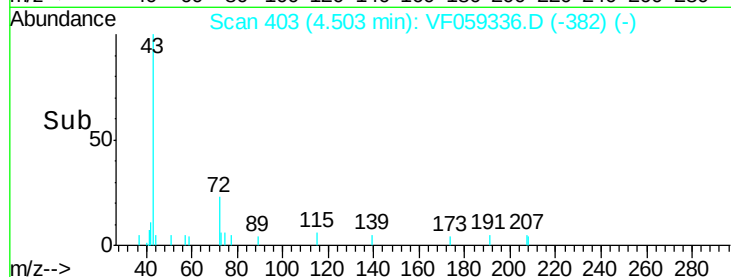
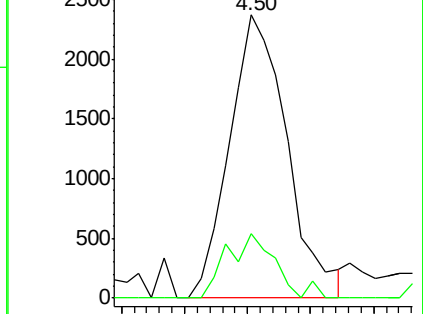
43 100

72 22.6 14.4 21.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#28

Bromochloromethane

Concen: Below Cal

RT: 3.79 min Scan# 331

Delta R.T. -0.08 min

Lab File: VF059336.D

Acq: 27 Jun 2018 13:56

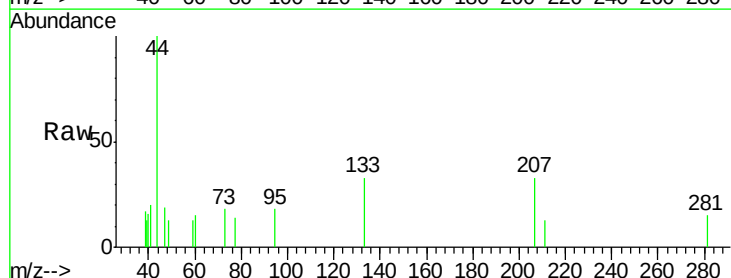
Tgt Ion: 49 Resp: 66

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

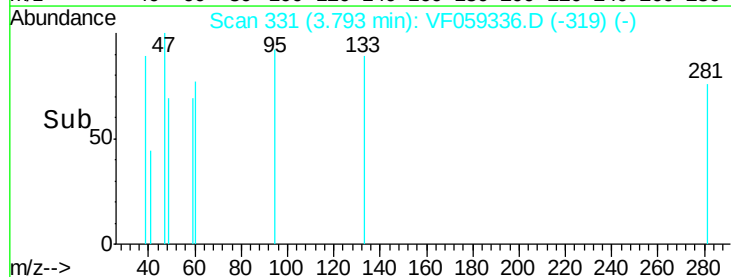
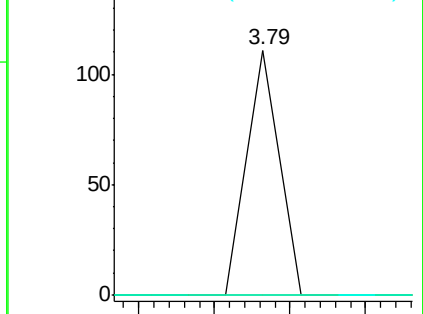
130 0.0 75.1 112.7#

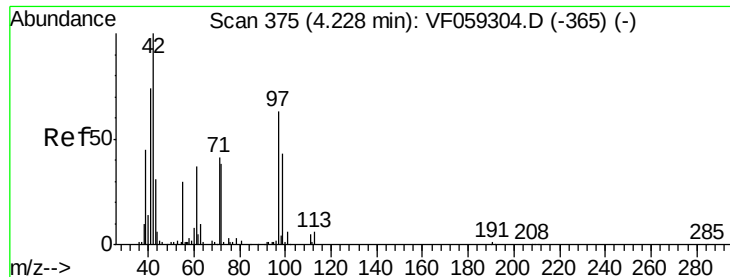


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V

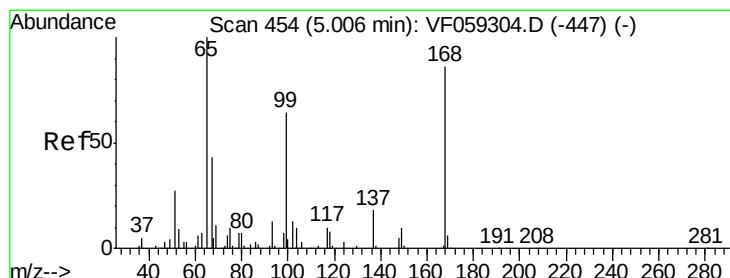
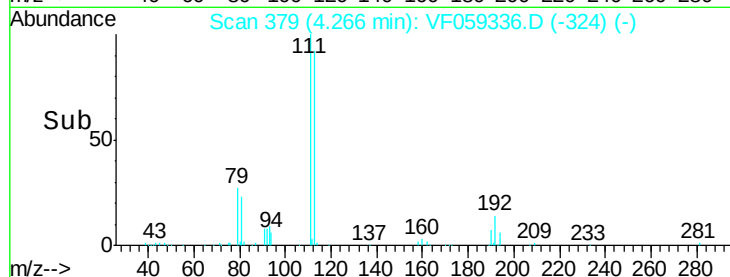
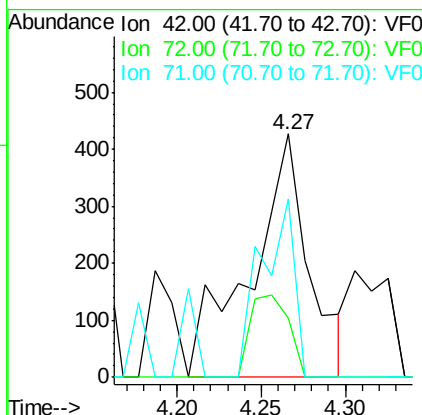
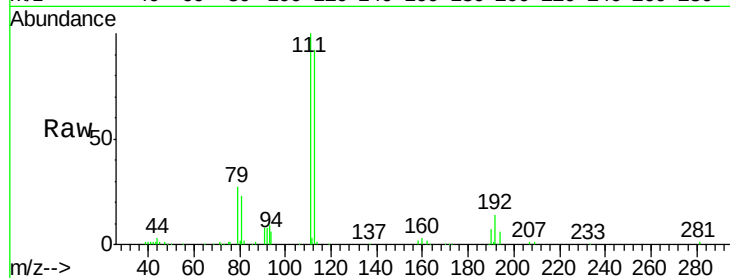




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.27 min Scan# 379
Delta R.T. 0.04 min
Lab File: VF059336.D
Acq: 27 Jun 2018 13:56

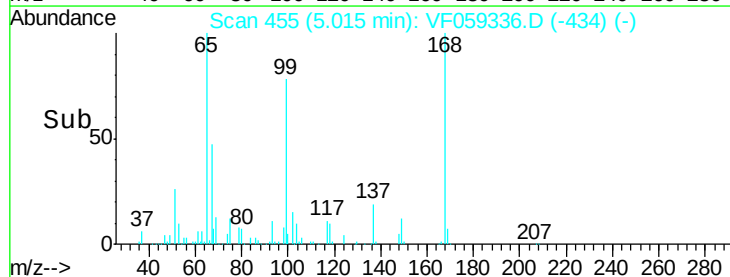
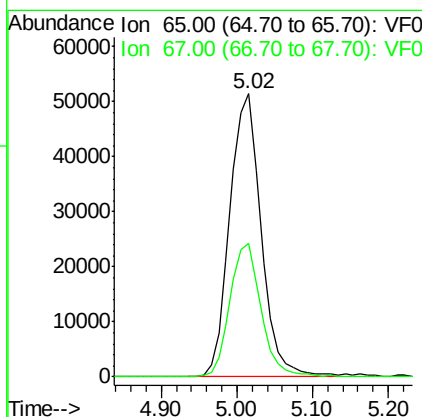
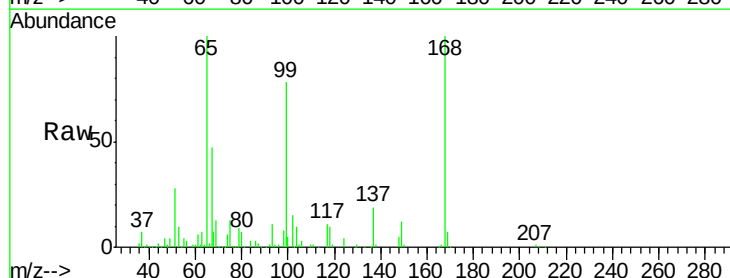
Instrument :
MSVOA_F
ClientSampled :

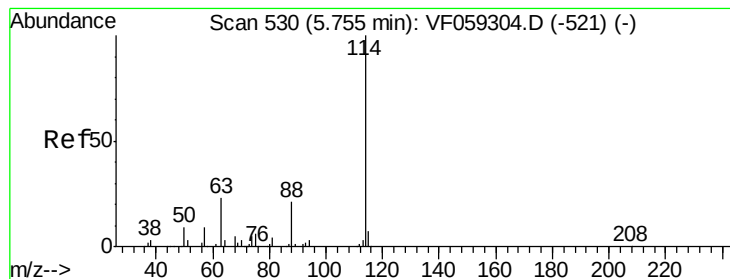
Tot Ion: 42 Resp: 1027
Ion Ratio Lower Upper
42 100
72 22.3 30.5 45.7#
71 41.5 32.5 48.7



#33
1,2-Dichloroethane-d4
Concen: 48.34 ug/l
RT: 5.02 min Scan# 455
Delta R.T. 0.01 min
Lab File: VF059336.D
Acq: 27 Jun 2018 13:56

Tgt Ion: 65 Resp: 148101
Ion Ratio Lower Upper
65 100
67 47.3 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.75 min Scan# 530

Delta R.T. -0.00 min

Lab File: VF059336.D

Acq: 27 Jun 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

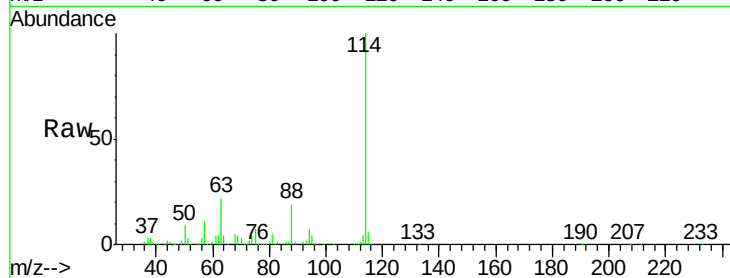
Tot Ion:114 Resp: 372836

Ion Ratio Lower Upper

114 100

63 22.0 0.0 45.8

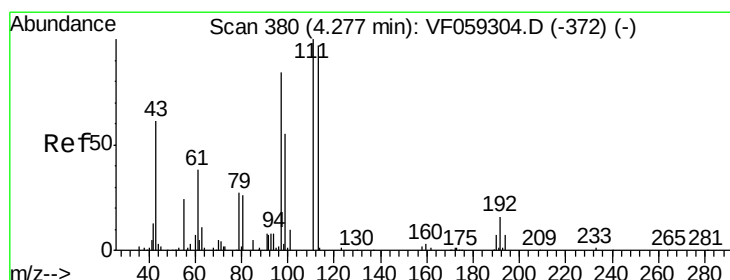
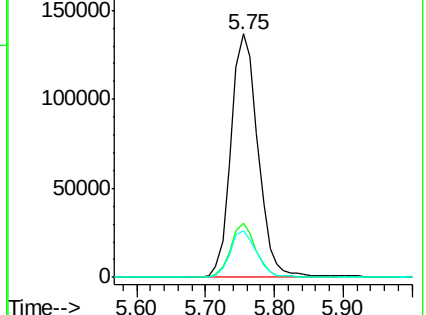
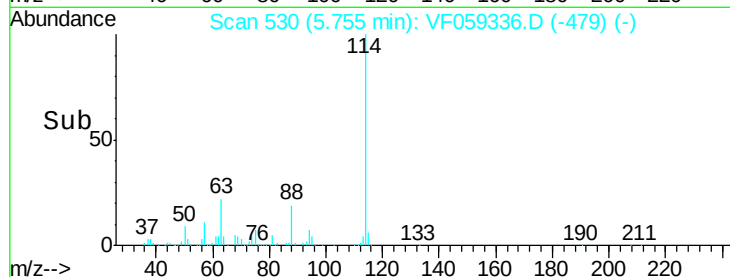
88 18.9 0.0 41.2



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



#35

Dibromofluoromethane

Concen: 49.52 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF059336.D

Acq: 27 Jun 2018 13:56

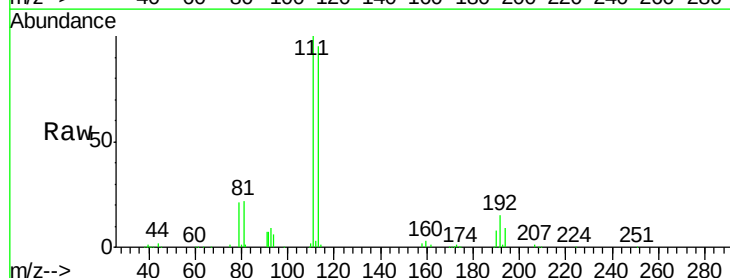
Tgt Ion:113 Resp: 134907

Ion Ratio Lower Upper

113 100

111 104.9 82.1 123.1

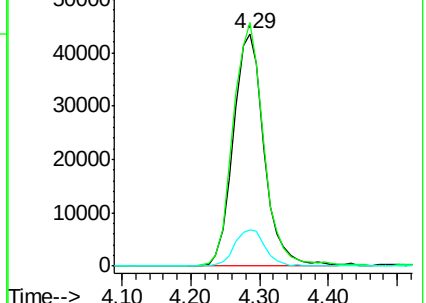
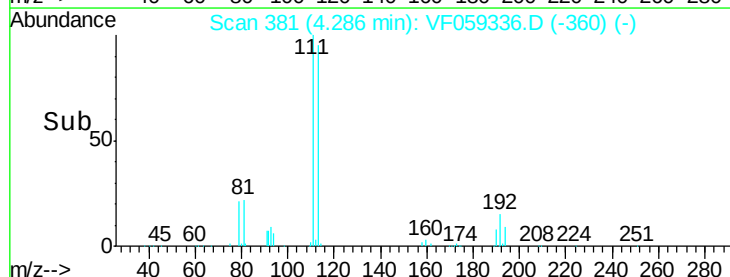
192 15.7 13.0 19.6

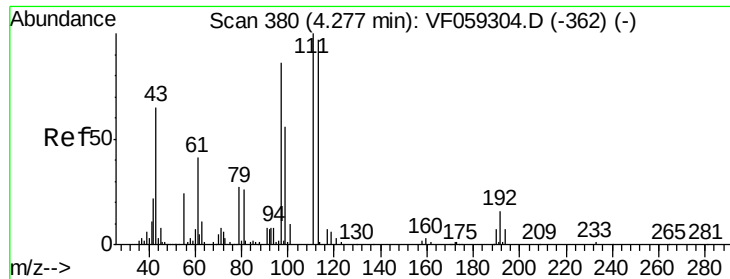


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

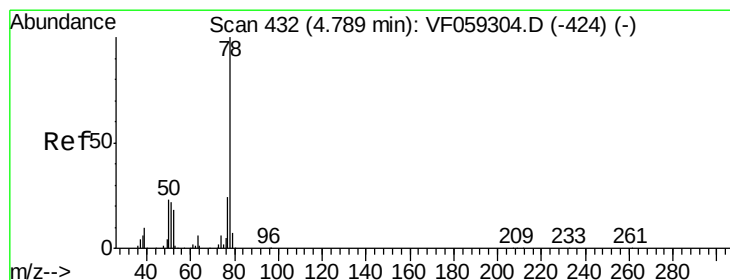
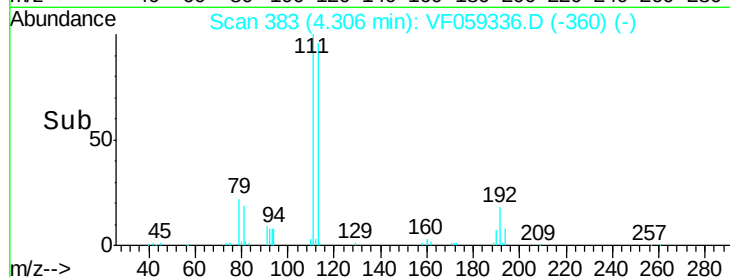
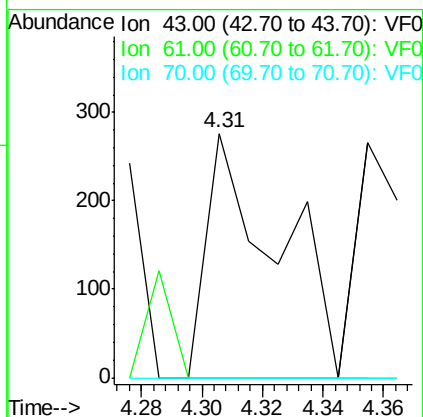
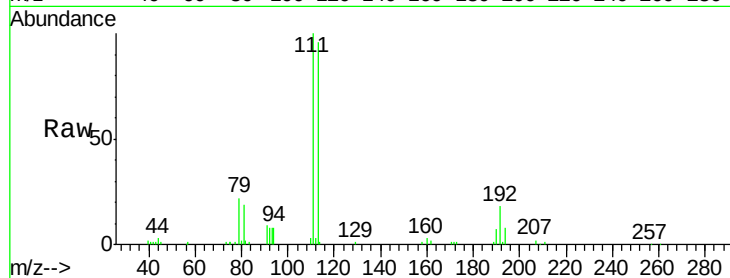




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.31 min Scan# 383
Delta R.T. 0.03 min
Lab File: VF059336.D
Acq: 27 Jun 2018 13:56

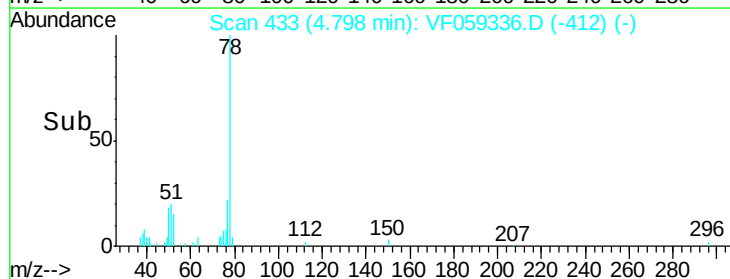
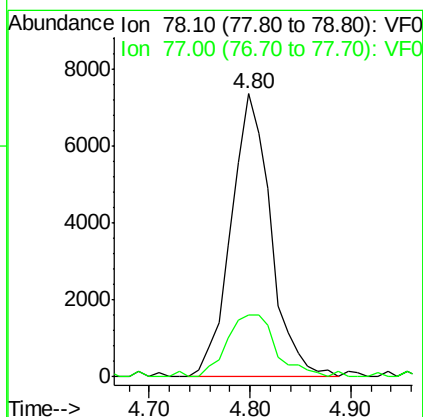
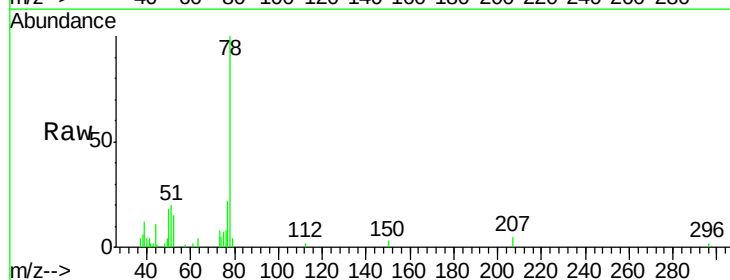
Instrument :
MSVOA_F
ClientSampleId :

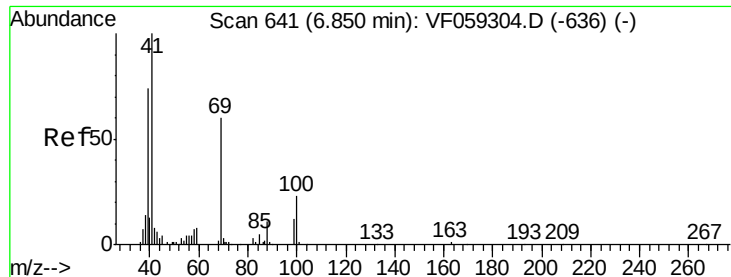
Tot Ion: 43 Resp: 448
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#



#40
Benzene
Concen: 2.80 ug/l
RT: 4.80 min Scan# 433
Delta R.T. 0.01 min
Lab File: VF059336.D
Acq: 27 Jun 2018 13:56

Tgt Ion: 78 Resp: 20202
Ion Ratio Lower Upper
78 100
77 21.9 19.6 29.4





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.87 min Scan# 643

Delta R.T. 0.02 min

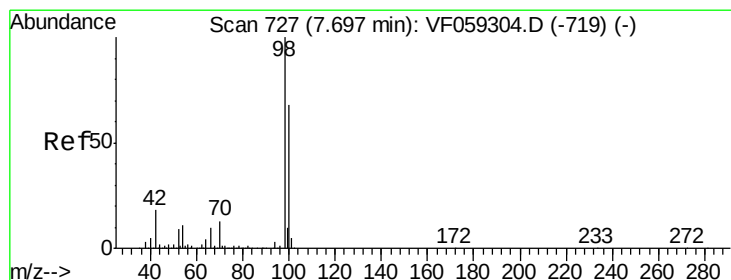
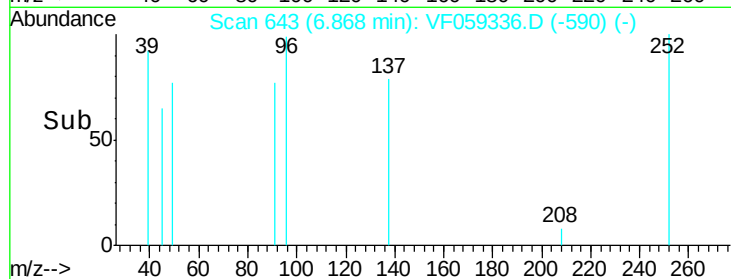
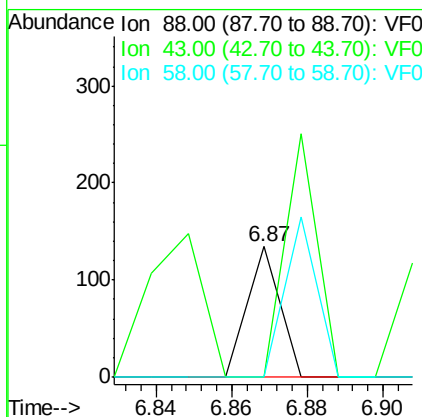
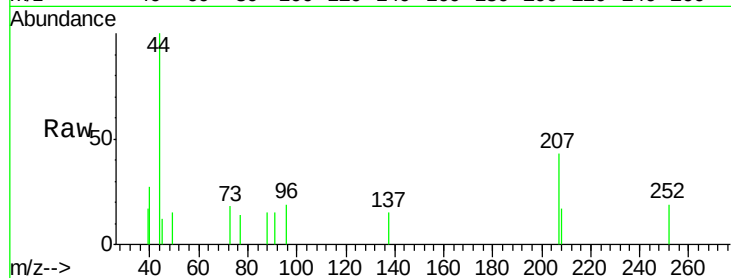
Lab File: VF059336.D

Acq: 27 Jun 2018 13:56

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 79

Ion	Ratio	Lower	Upper
88	100		
43	0.0	50.6	75.8#
58	0.0	46.6	69.8#



#50

Toluene-d8

Concen: 46.85 ug/l

RT: 7.70 min Scan# 727

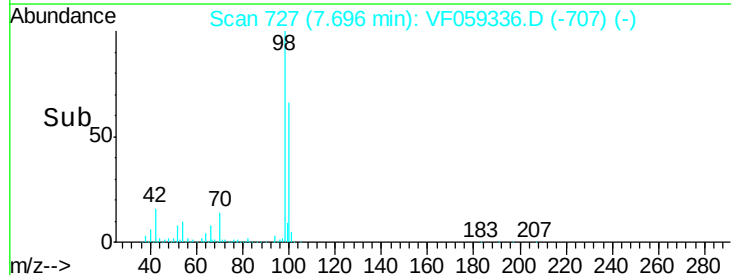
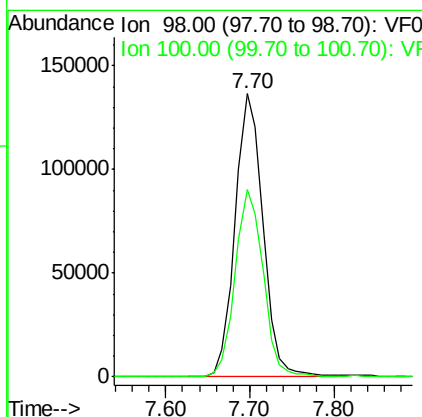
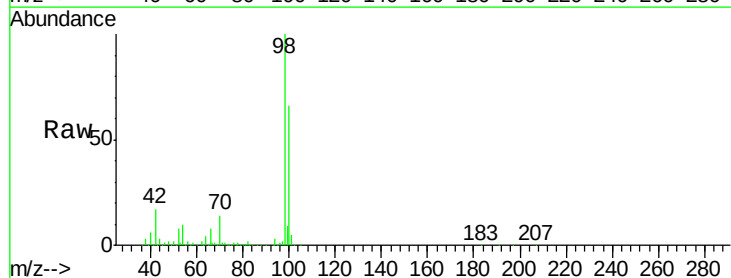
Delta R.T. -0.00 min

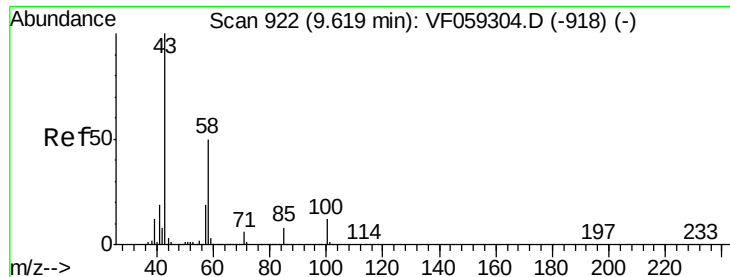
Lab File: VF059336.D

Acq: 27 Jun 2018 13:56

Tgt Ion: 98 Resp: 315983

Ion	Ratio	Lower	Upper
98	100		
100	66.0	54.6	82.0

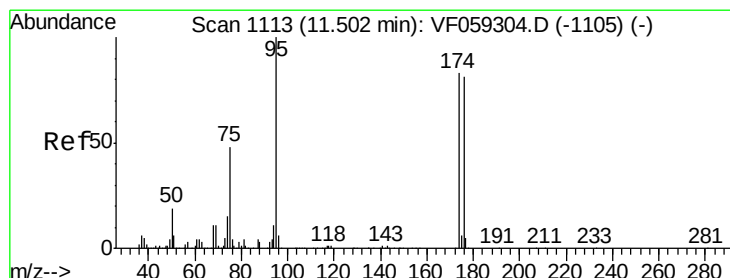
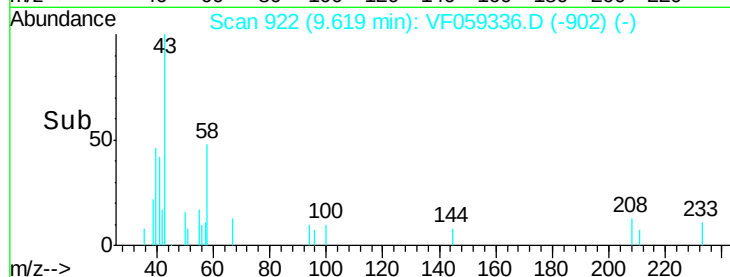
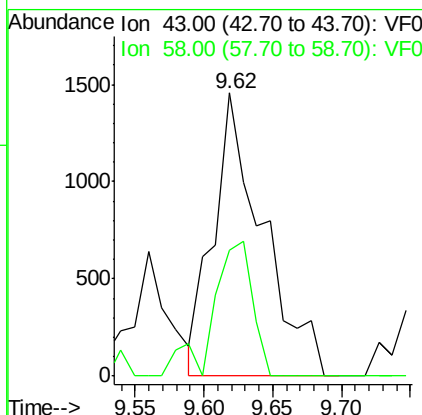
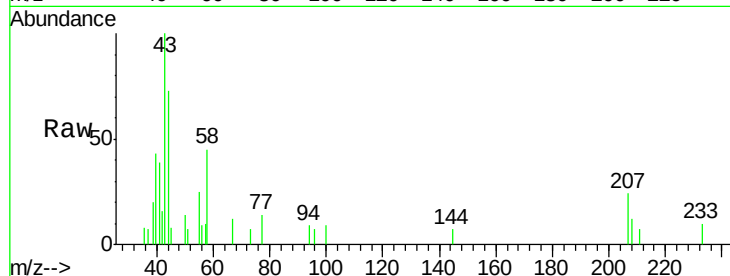




#59
2-Hexanone
Concen: Below Cal
RT: 9.62 min Scan# 922
Delta R.T. -0.00 min
Lab File: VF059336.D
Acq: 27 Jun 2018 13:56

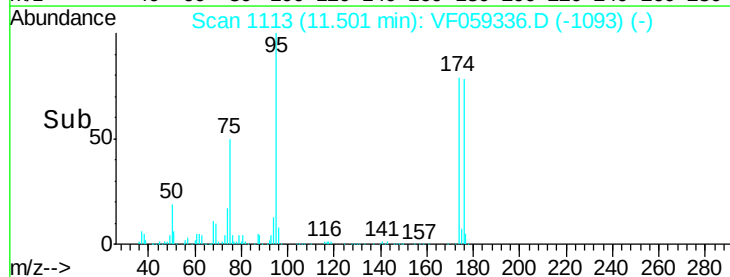
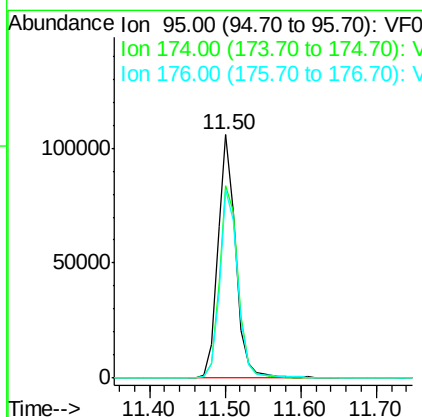
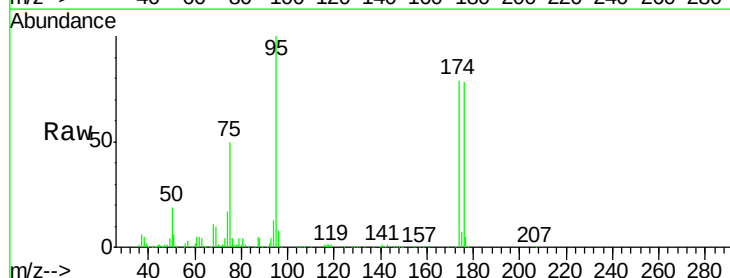
Instrument :
MSVOA_F
ClientSampleId :

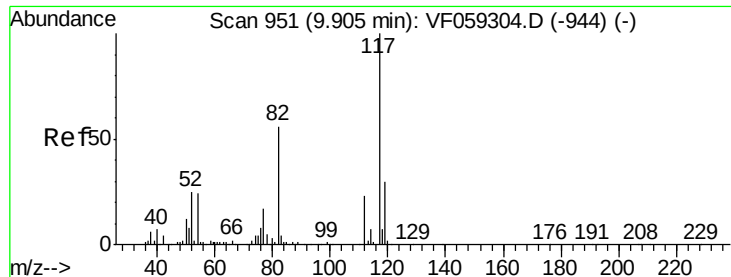
Tot Ion: 43 Resp: 3630
Ion Ratio Lower Upper
43 100
58 44.6 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 46.09 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF059336.D
Acq: 27 Jun 2018 13:56

Tgt Ion: 95 Resp: 175364
Ion Ratio Lower Upper
95 100
174 78.8 0.0 165.2
176 77.6 0.0 161.0

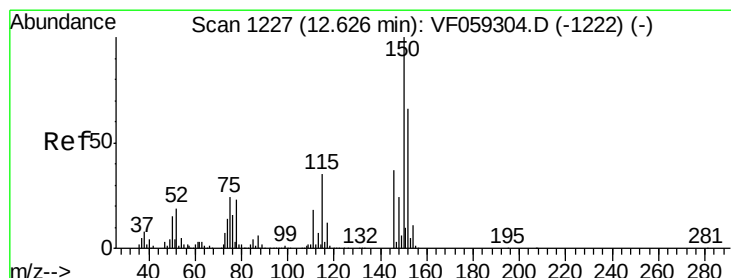
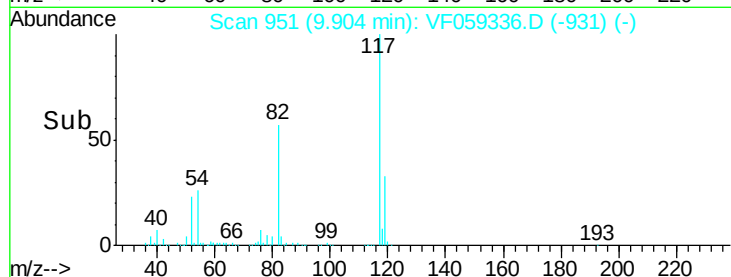
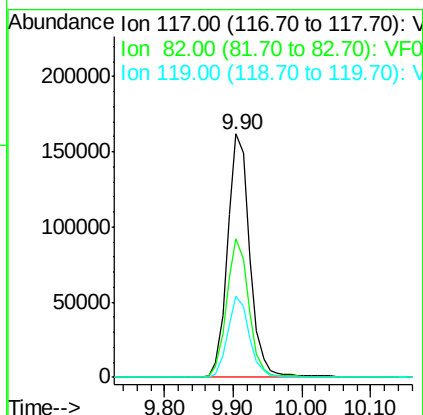
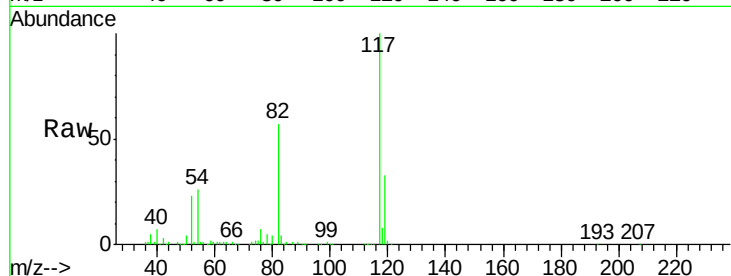




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF059336.D
Acq: 27 Jun 2018 13:56

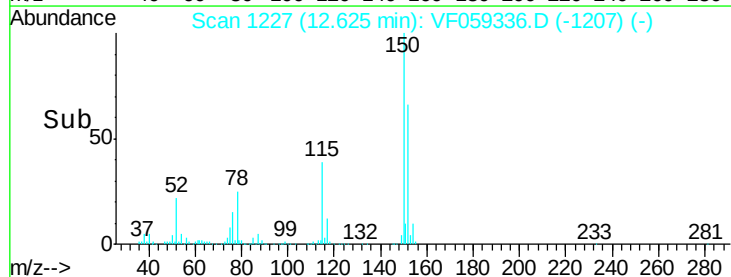
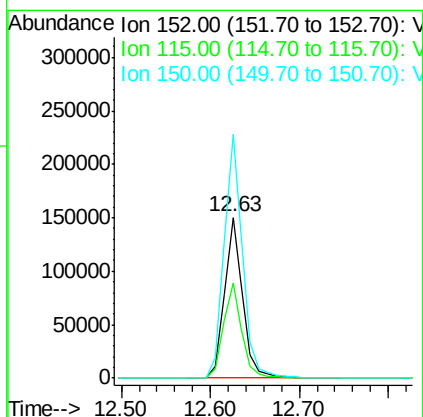
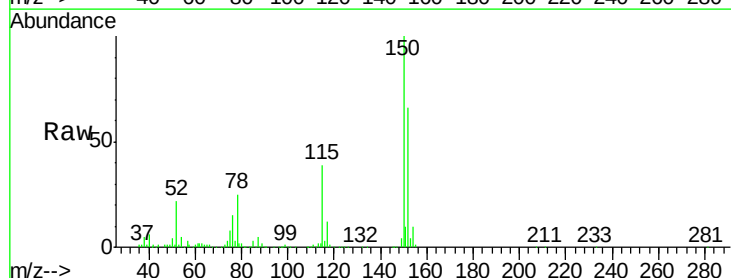
Instrument :
MSVOA_F
ClientSampled :

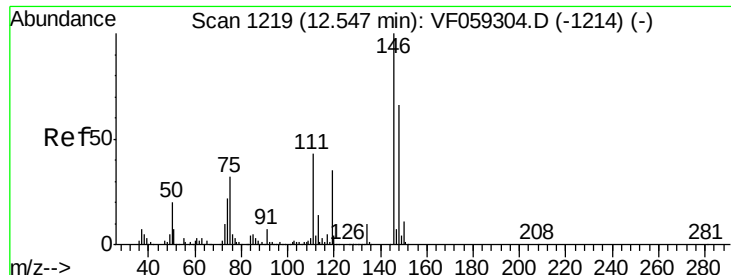
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.1	44.6	66.8
119	33.3	24.1	36.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059336.D
Acq: 27 Jun 2018 13:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.2	27.1	81.3
150	151.4	0.0	305.2





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.55 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VF059336.D

Acq: 27 Jun 2018 13:56

Instrument :

MSVOA_F

ClientSampleId :

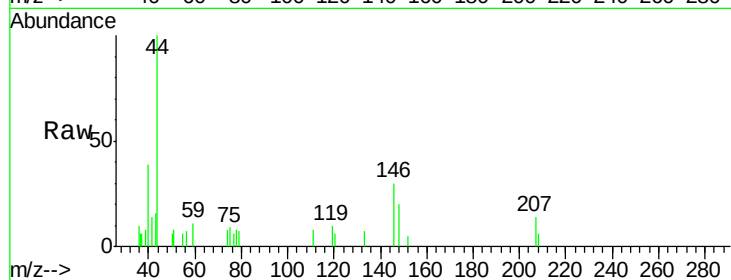
Tot Ion:146 Resp: 835

Ion Ratio Lower Upper

146 100

111 27.4 21.4 64.2

148 67.1 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

