

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF061918\
 Data File : VF059195.D
 Acq On : 19 Jun 2018 18:15
 Operator : VA/AP
 Sample : J3554-08RE
 Misc : 6.22g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

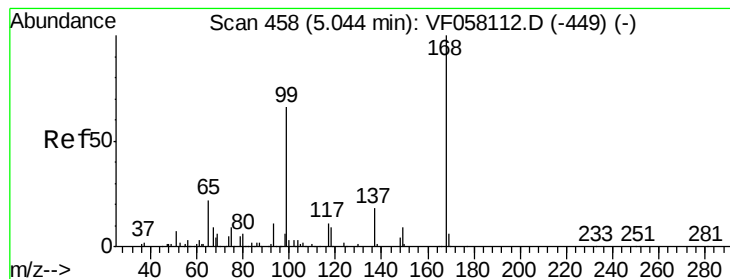
Quant Time: Jun 20 03:04:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 10:52:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	209057	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.75	114	304224	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.91	117	279460	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	165147	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	125243	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
35) Dibromofluoromethane	4.28	113	107236	50.24	ug/l	-0.01
Spiked Amount			Recovery	=	100.48%	
50) Toluene-d8	7.71	98	278431	44.40	ug/l	0.00
Spiked Amount			Recovery	=	88.80%	
62) 4-Bromofluorobenzene	11.51	95	146034	45.40	ug/l	0.00
Spiked Amount			Recovery	=	90.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.68	59	922	5.675	ug/l #	1
13) Acrolein	2.08	56	342	2.432	ug/l #	1
15) Acrylonitrile	3.06	53	994	3.081	ug/l #	60
16) Acetone	2.34	43	3411	5.635	ug/l #	83
18) Methyl Acetate	2.47	43	6150	5.910	ug/l #	66
20) Methylene Chloride	2.27	84	3090	2.132	ug/l #	84
25) 2-Butanone	4.52	43	2000	2.131	ug/l #	77
29) Tetrahydrofuran	4.26	42	980	2.370	ug/l #	42
39) Methylcyclohexane	5.75	83	3478	1.157	ug/l #	43
43) Isopropyl Acetate	7.10	43	2541	1.041	ug/l #	77
49) 1,4-Dioxane	6.88	88	273	35.206	ug/l #	7
51) 4-Methyl-2-Pentanone	8.41	43	5163	3.087	ug/l #	76
59) 2-Hexanone	9.63	43	14436	10.912	ug/l	85
74) N-amyl acetate	11.46	43	8201	2.008	ug/l #	91
89) n-Butylbenzene	12.92	91	3942	Below Cal		91
92) 1,2-Dibromo-3-Chloropropan	13.72	75	638	1.200	ug/l #	48
95) Naphthalene	14.53	128	10899	1.425	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF059195.D

Acq: 19 Jun 2018 18:15

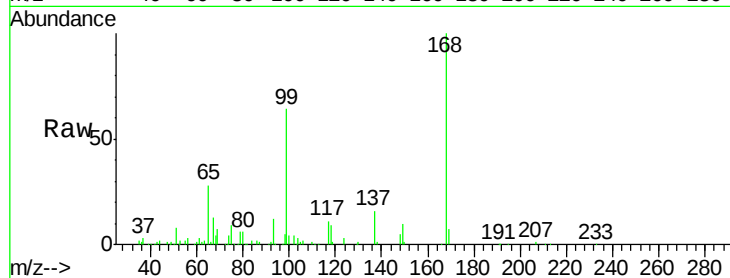
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 209057

Ion Ratio Lower Upper

168 100

99 64.4 52.9 79.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

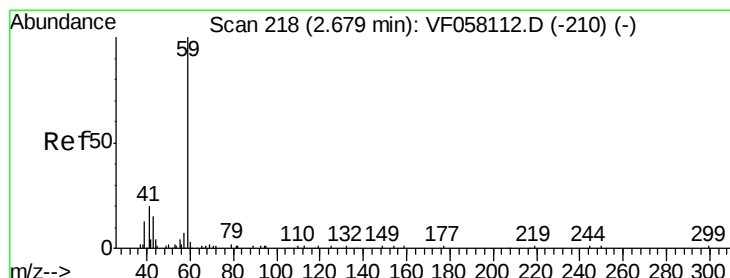
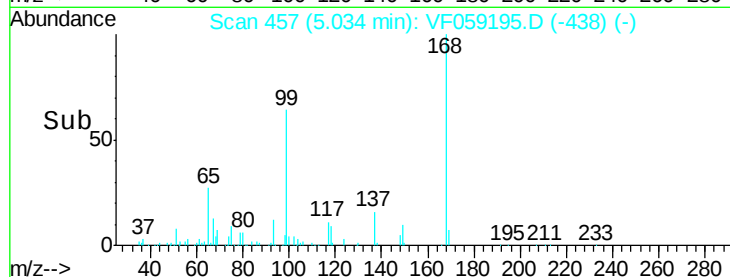
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 5.675 ug/l

RT: 2.68 min Scan# 218

Delta R.T. -0.00 min

Lab File: VF059195.D

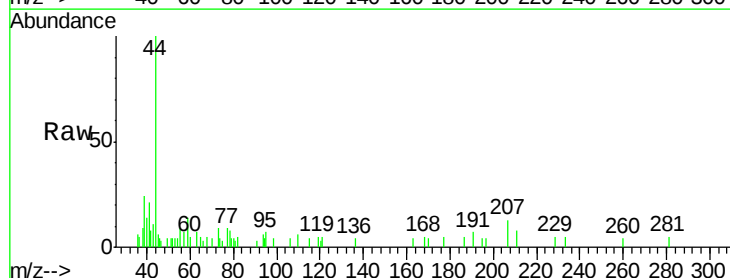
Acq: 19 Jun 2018 18:15

Tgt Ion: 59 Resp: 922

Ion Ratio Lower Upper

59 100

57 48.9 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.68

500

400

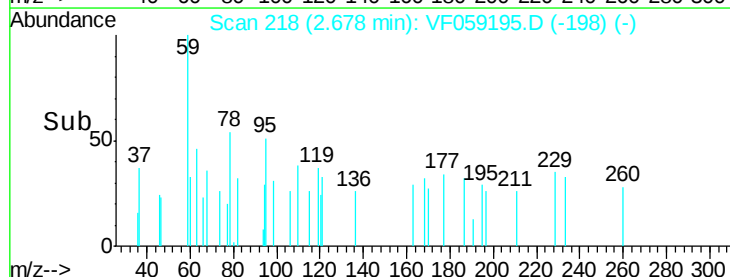
300

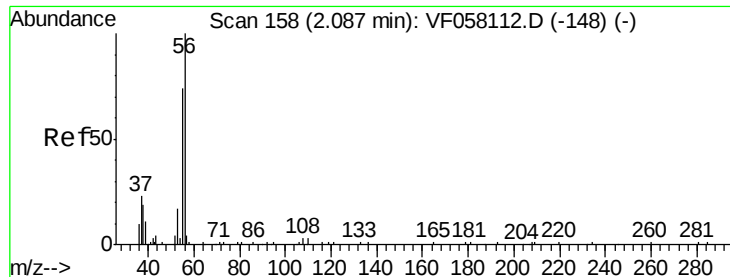
200

100

0

Time-->





#13

Acrolein

Concen: 2.432 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF059195.D

Acq: 19 Jun 2018 18:15

Instrument :

MSVOA_F

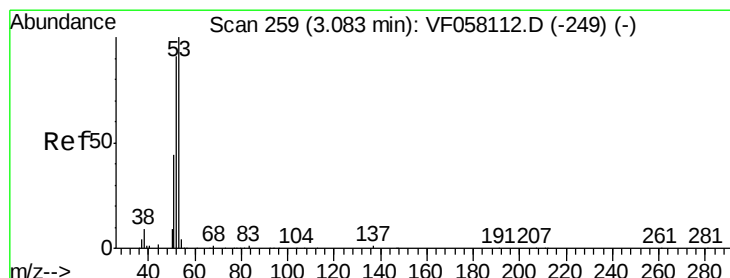
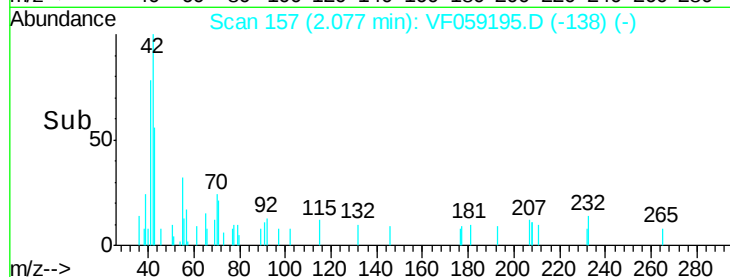
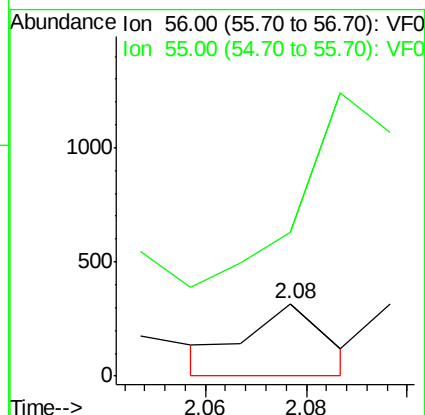
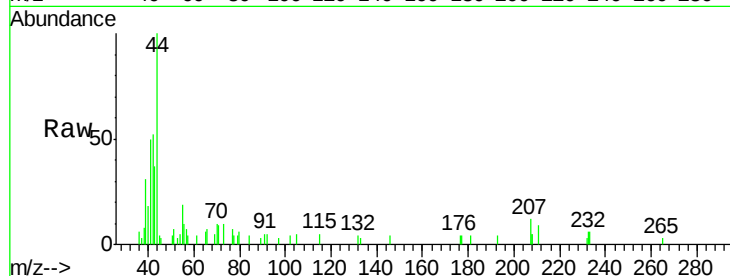
ClientSampled :

Tot Ion: 56 Resp: 342

Ion Ratio Lower Upper

56 100

55 198.7 60.0 90.0#



#15

Acrylonitrile

Concen: 3.081 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.02 min

Lab File: VF059195.D

Acq: 19 Jun 2018 18:15

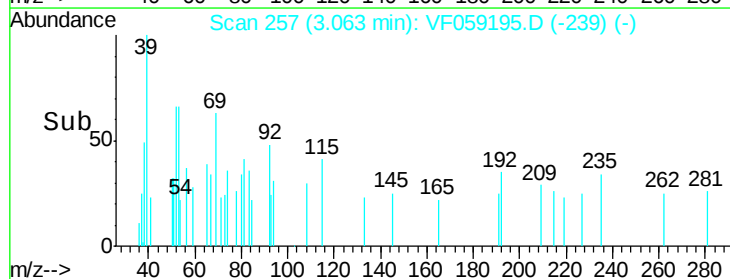
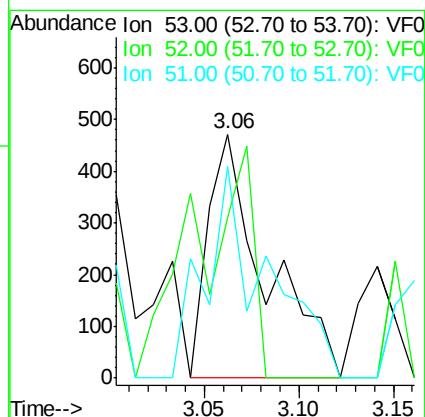
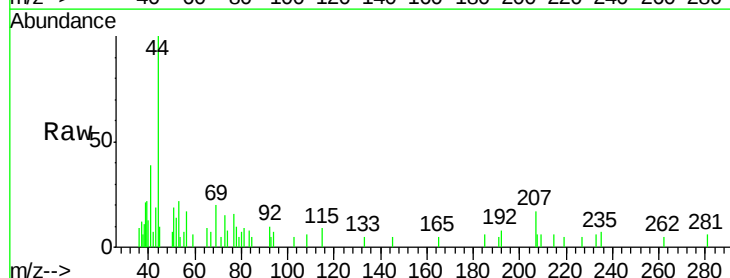
Tgt Ion: 53 Resp: 994

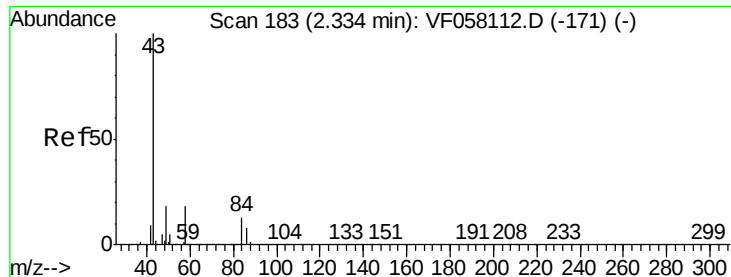
Ion Ratio Lower Upper

53 100

52 53.9 73.2 109.8#

51 71.4 35.6 53.4#

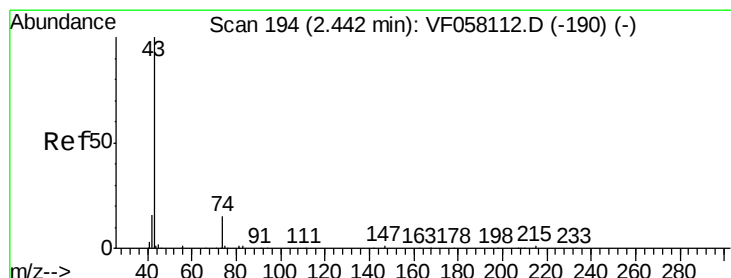
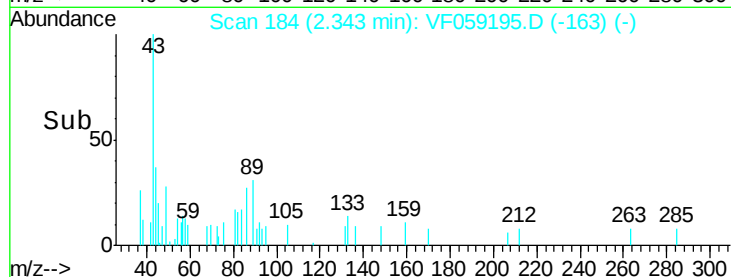
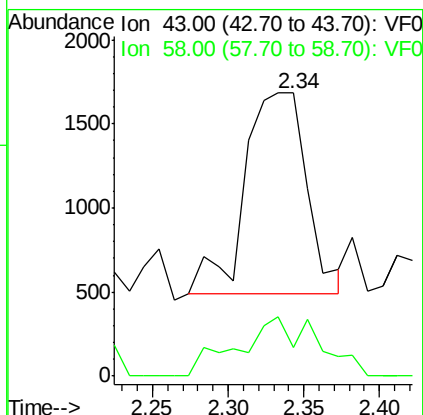
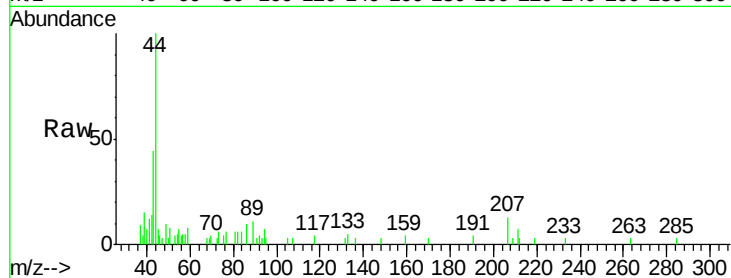




#16
Acetone
Concen: 5.635 ug/l
RT: 2.34 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF059195.D
Acq: 19 Jun 2018 18:15

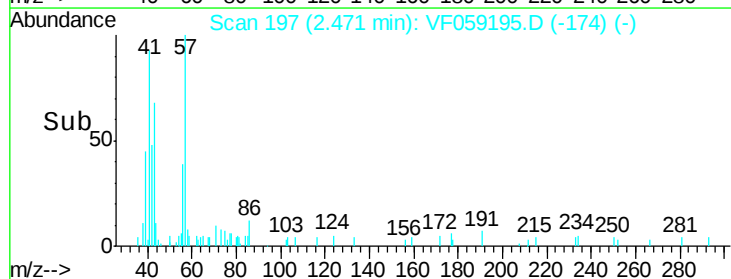
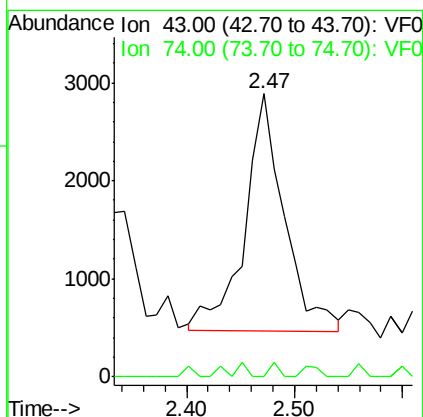
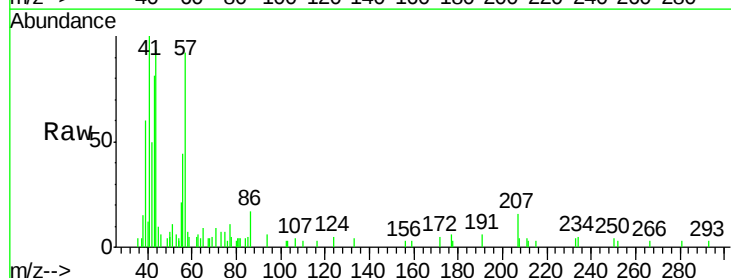
Instrument :
MSVOA_F
ClientSampleId :

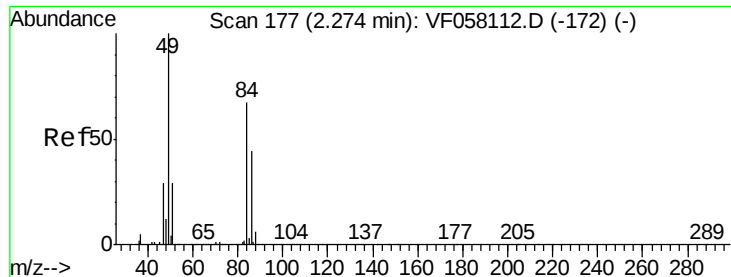
Tot Ion: 43 Resp: 3411
Ion Ratio Lower Upper
43 100
58 10.3 14.4 21.6#



#18
Methyl Acetate
Concen: 5.910 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.03 min
Lab File: VF059195.D
Acq: 19 Jun 2018 18:15

Tgt Ion: 43 Resp: 6150
Ion Ratio Lower Upper
43 100
74 0.0 10.9 16.3#

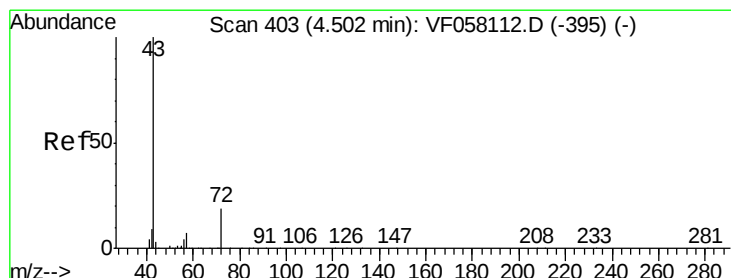
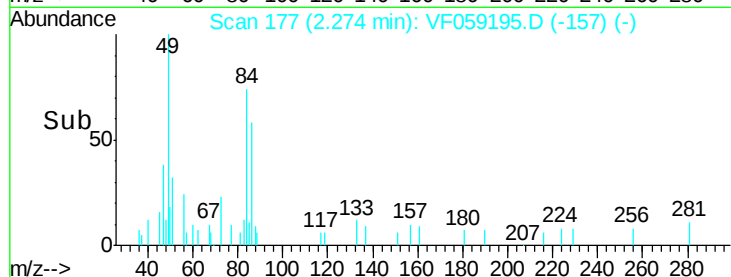
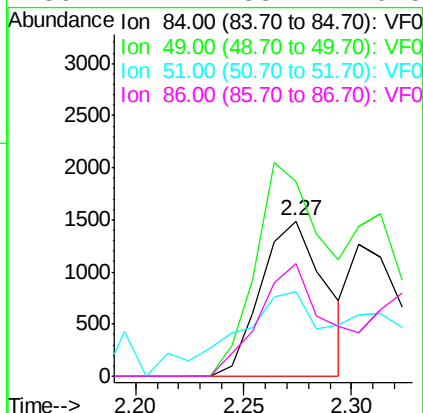
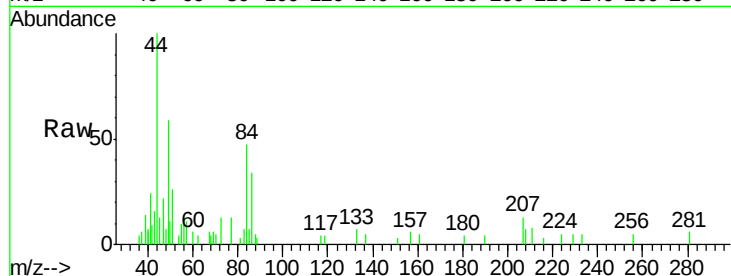




#20
Methvlene Chloride
Concen: 2.132 ug/l
RT: 2.27 min Scan# 177
Delta R.T. -0.00 min
Lab File: VF059195.D
Acq: 19 Jun 2018 18:15

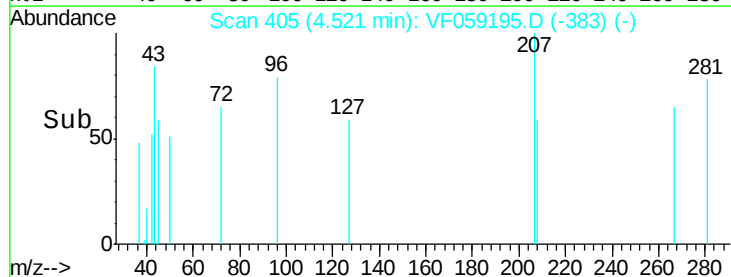
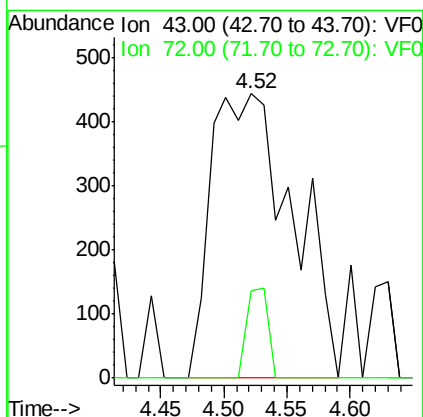
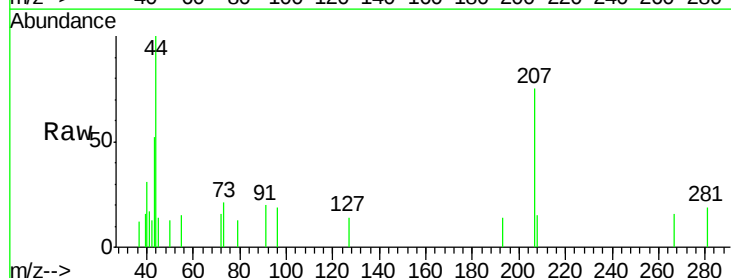
Instrument :
MSVOA_F
ClientSampleId :

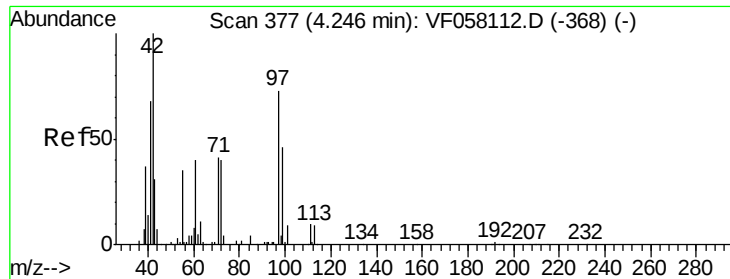
Tot Ion: 84 Resp: 3090
Ion Ratio Lower Upper
84 100
49 124.9 121.0 181.4
51 54.4 35.8 53.6#
86 72.2 53.2 79.8



#25
2-Butanone
Concen: 2.131 ug/l
RT: 4.52 min Scan# 405
Delta R.T. 0.02 min
Lab File: VF059195.D
Acq: 19 Jun 2018 18:15

Tgt Ion: 43 Resp: 2000
Ion Ratio Lower Upper
43 100
72 30.7 16.1 24.1#





#29

Tetrahydrofuran

Concen: 2.370 ug/l

RT: 4.26 min Scan# 378

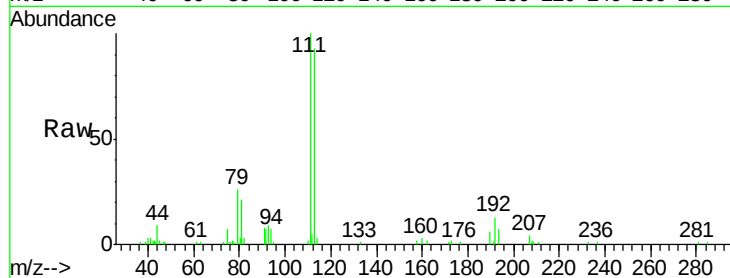
Delta R.T. 0.01 min

Lab File: VF059195.D

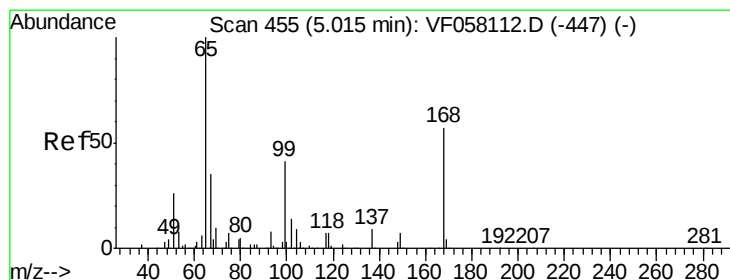
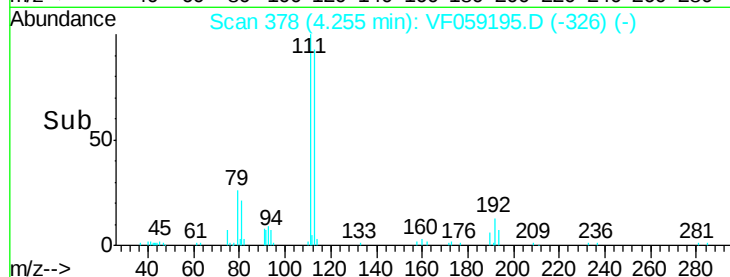
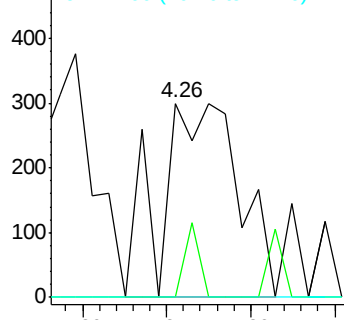
Acq: 19 Jun 2018 18:15

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	42	Resp:	980
Ion	Ratio	Lower	Upper
42	100		
72	6.9	30.5	45.7#
71	0.0	31.5	47.3#



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: 49.397 ug/l

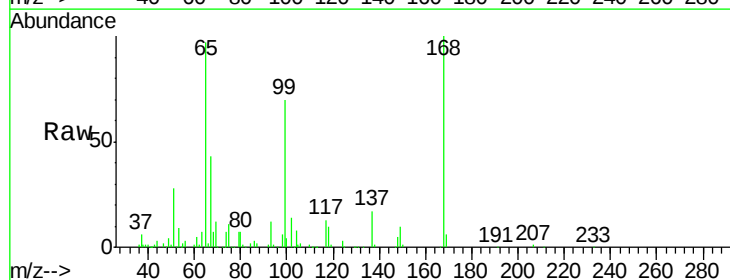
RT: 5.01 min Scan# 455

Delta R.T. -0.00 min

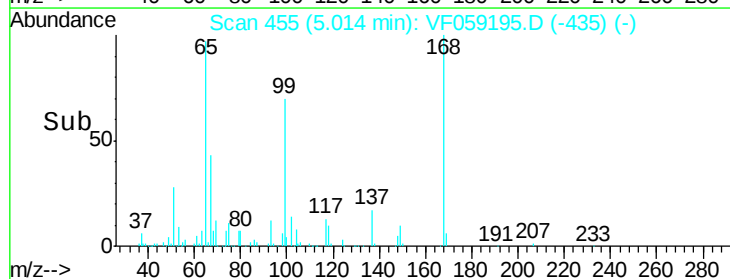
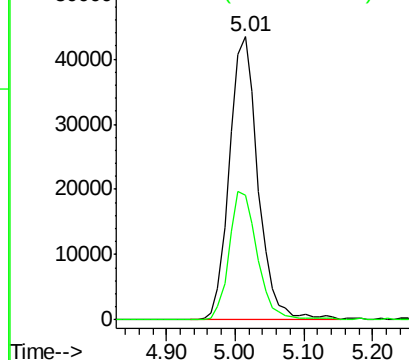
Lab File: VF059195.D

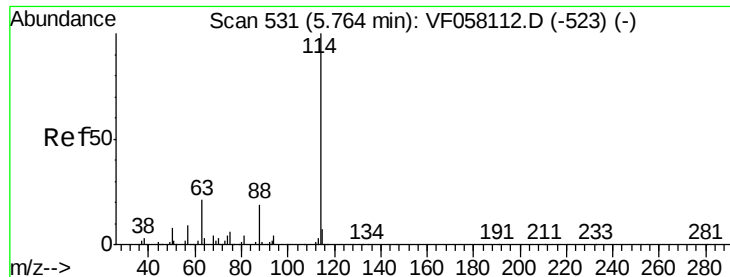
Acq: 19 Jun 2018 18:15

Tgt Ion:	65	Resp:	125243
Ion	Ratio	Lower	Upper
65	100		
67	44.1	0.0	97.0



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 530

Delta R.T. -0.01 min

Lab File: VF059195.D

Acq: 19 Jun 2018 18:15

Instrument :

MSVOA_F

ClientSampleId :

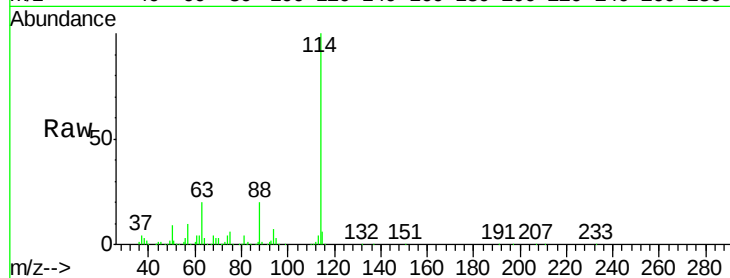
Tot Ion:114 Resp: 304224

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.6

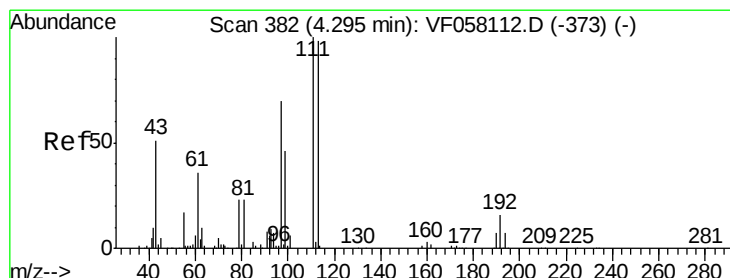
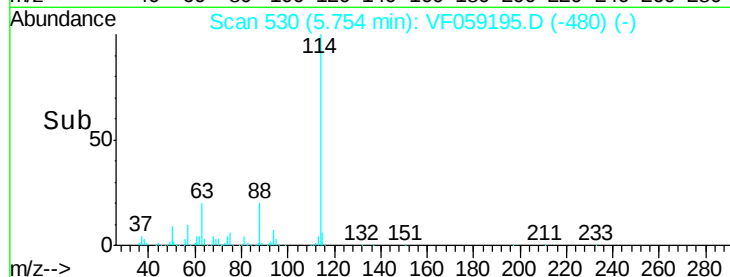
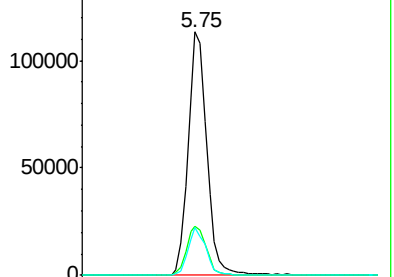
88 19.6 0.0 38.8



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: 50.236 ug/l

RT: 4.28 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF059195.D

Acq: 19 Jun 2018 18:15

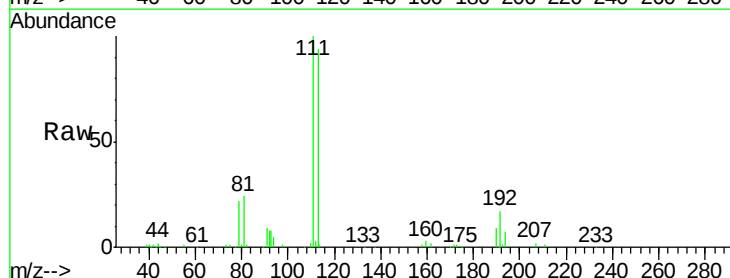
Tgt Ion:113 Resp: 107236

Ion Ratio Lower Upper

113 100

111 105.2 81.3 121.9

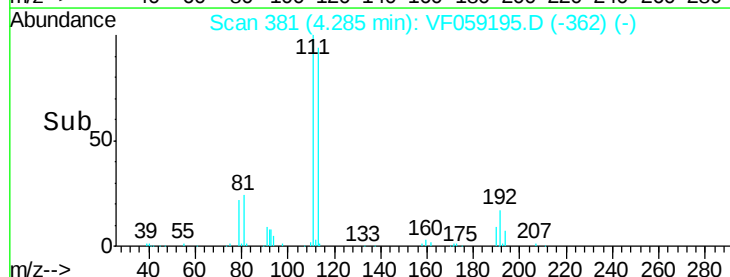
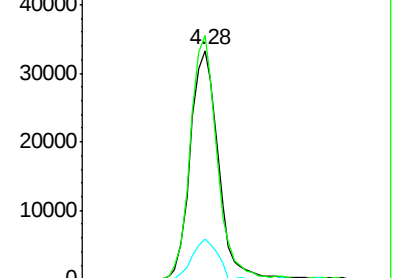
192 17.4 12.7 19.1

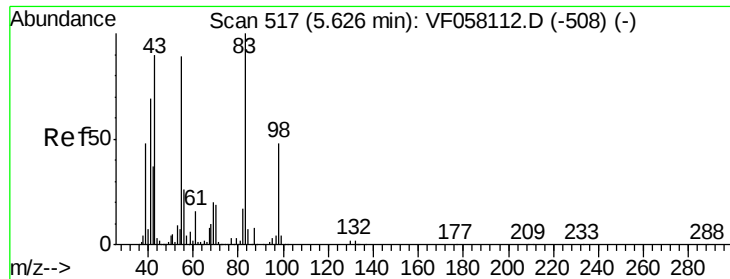


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

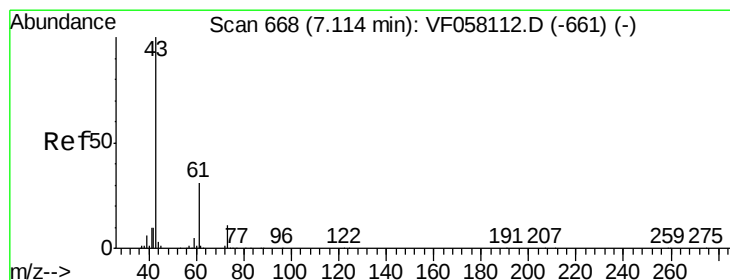
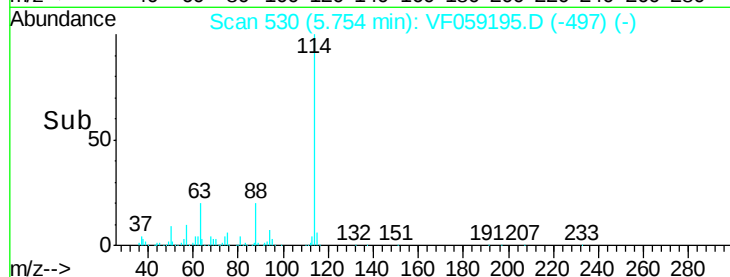
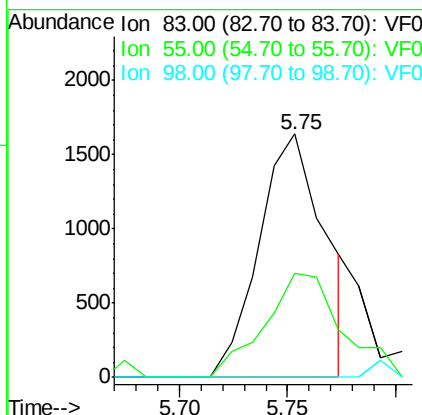
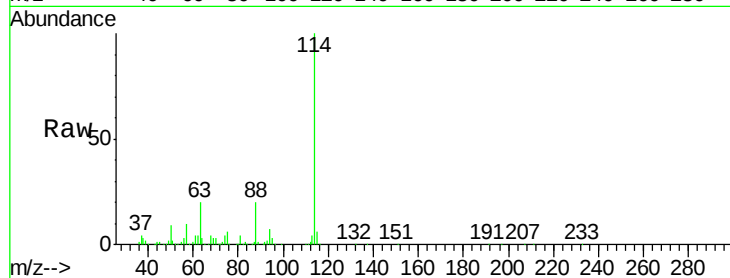




#39
Methvlcvclohexane
Concen: 1.157 ug/l
RT: 5.75 min Scan# 530
Delta R.T. 0.13 min
Lab File: VF059195.D
Acq: 19 Jun 2018 18:15

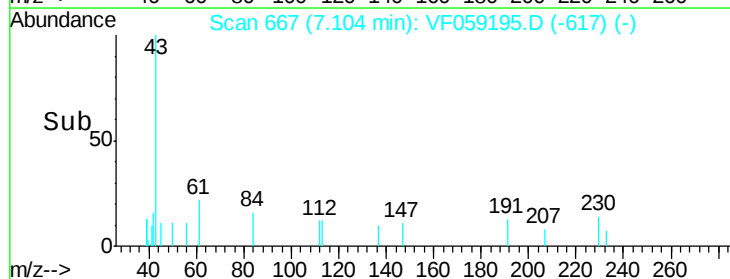
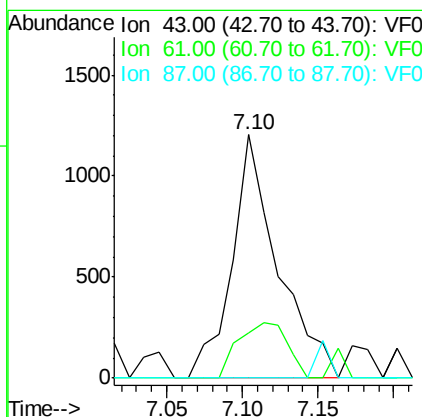
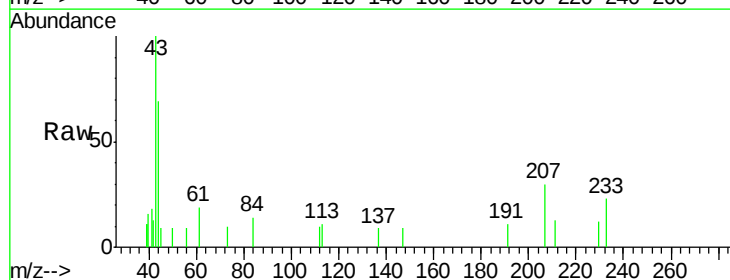
Instrument :
MSVOA_F
ClientSampleId :

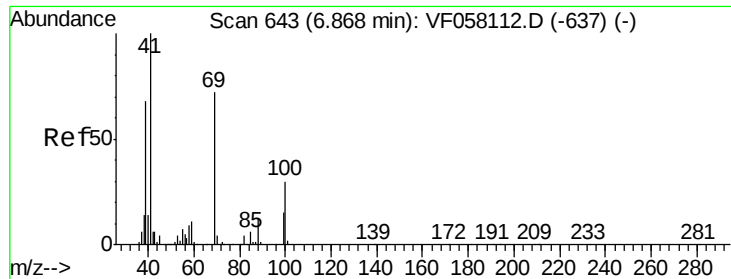
Tot Ion: 83 Resp: 3478
Ion Ratio Lower Upper
83 100
55 42.6 71.0 106.4#
98 0.0 38.1 57.1#



#43
Isopropyl Acetate
Concen: 1.041 ug/l
RT: 7.10 min Scan# 667
Delta R.T. -0.01 min
Lab File: VF059195.D
Acq: 19 Jun 2018 18:15

Tgt Ion: 43 Resp: 2541
Ion Ratio Lower Upper
43 100
61 18.7 25.1 37.7#
87 0.0 0.2 0.4#





#49

1,4-Dioxane

Concen: 35.206 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.01 min

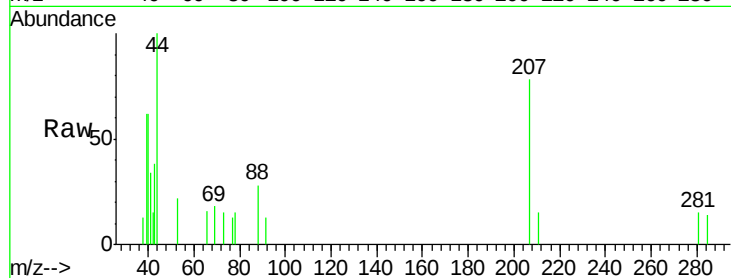
Lab File: VF059195.D

Acq: 19 Jun 2018 18:15

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 273

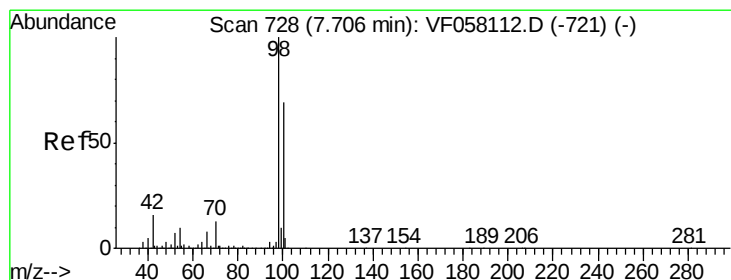
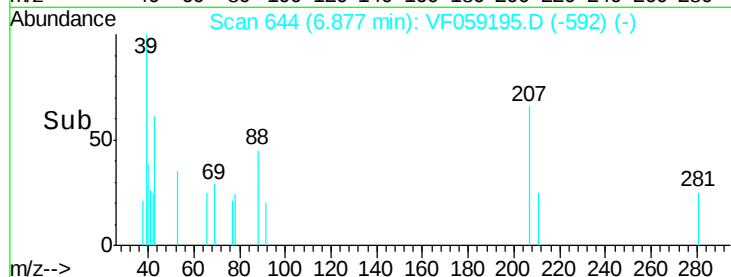
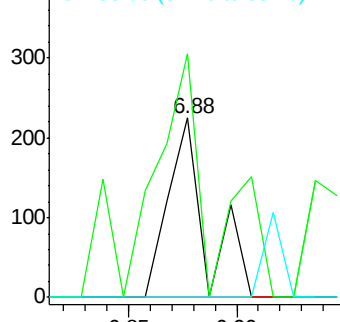
Ion	Ratio	Lower	Upper
88	100		
43	135.6	47.8	71.8#
58	0.0	59.4	89.0#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 44.398 ug/l

RT: 7.71 min Scan# 728

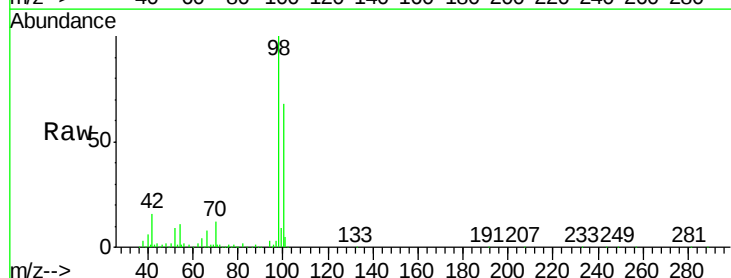
Delta R.T. -0.00 min

Lab File: VF059195.D

Acq: 19 Jun 2018 18:15

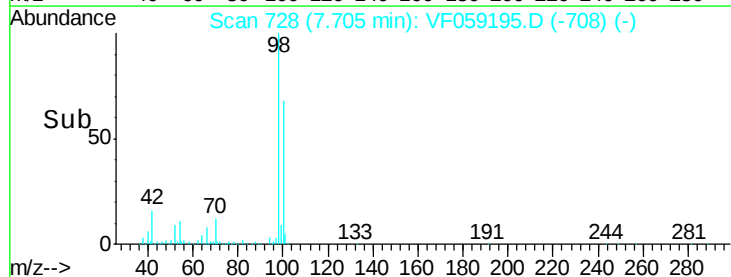
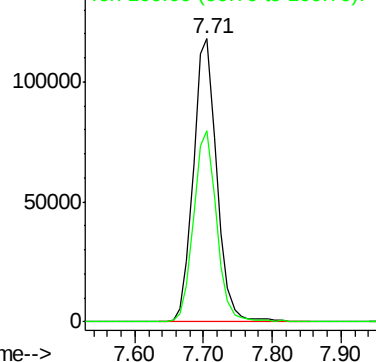
Tgt Ion: 98 Resp: 278431

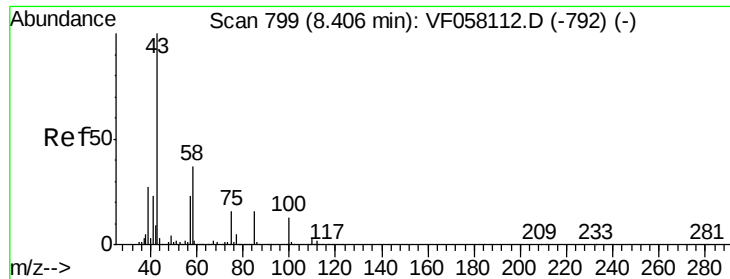
Ion	Ratio	Lower	Upper
98	100		
100	67.6	55.6	83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

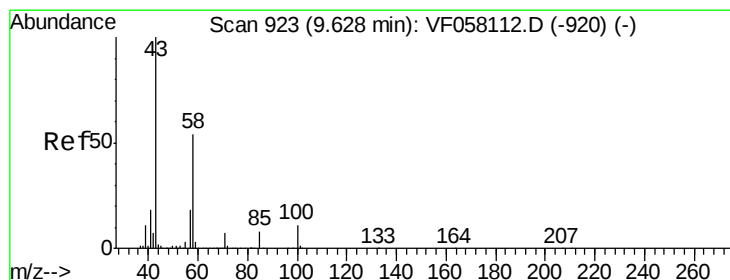
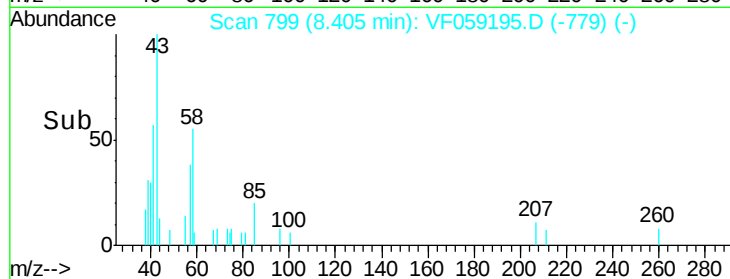
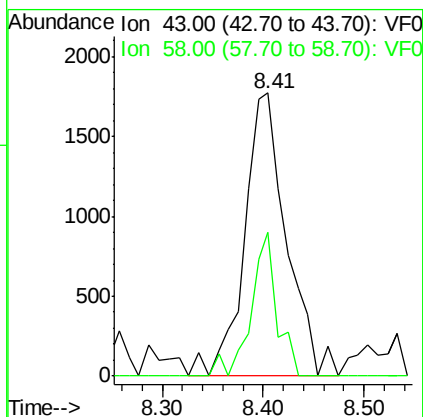
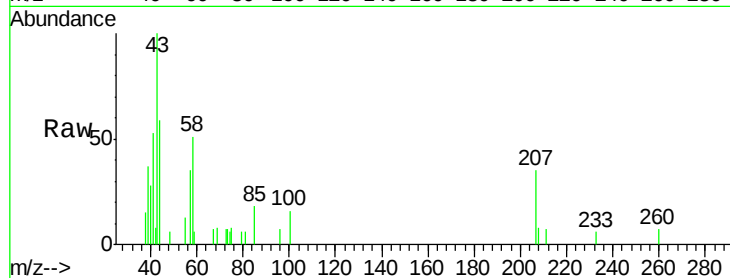




#51
 4-Methyl-2-Pentanone
 Concen: 3.087 ug/l
 RT: 8.41 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VF059195.D
 Acq: 19 Jun 2018 18:15

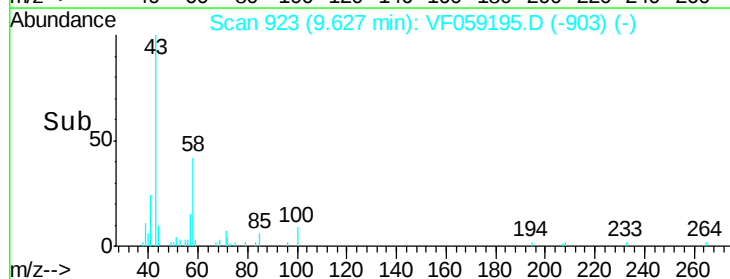
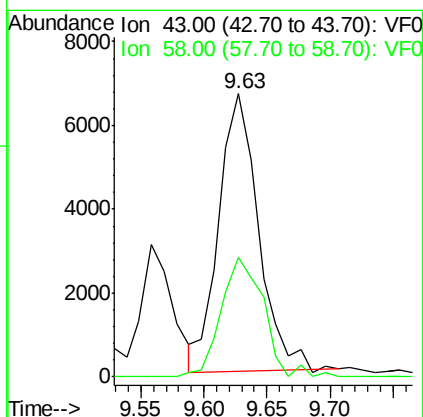
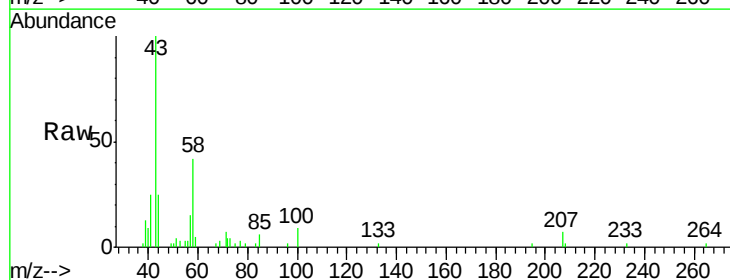
Instrument :
 MSVOA_F
 ClientSampled :

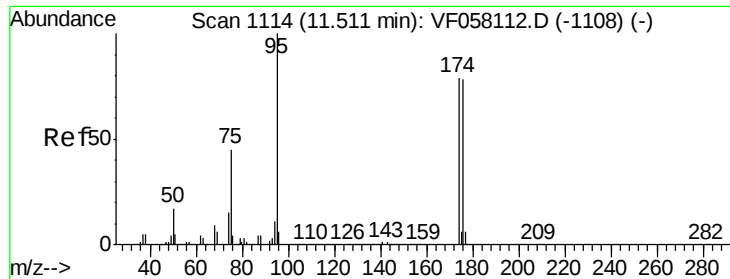
Tot Ion: 43 Resp: 5163
 Ion Ratio Lower Upper
 43 100
 58 50.8 29.4 44.0#



#59
 2-Hexanone
 Concen: 10.912 ug/l
 RT: 9.63 min Scan# 923
 Delta R.T. -0.00 min
 Lab File: VF059195.D
 Acq: 19 Jun 2018 18:15

Tgt Ion: 43 Resp: 14436
 Ion Ratio Lower Upper
 43 100
 58 42.1 26.3 78.8





#62

4-Bromofluorobenzene

Concen: 45.401 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF059195.D

Acq: 19 Jun 2018 18:15

Instrument :

MSVOA_F

ClientSampleId :

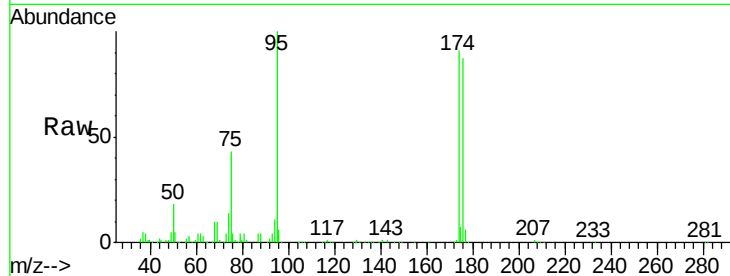
Tot Ion: 95 Resp: 146034

Ion Ratio Lower Upper

95 100

174 91.0 0.0 157.8

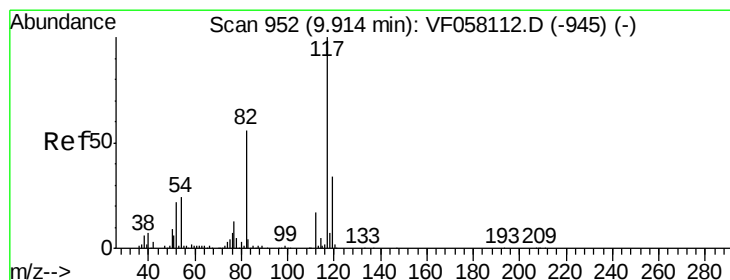
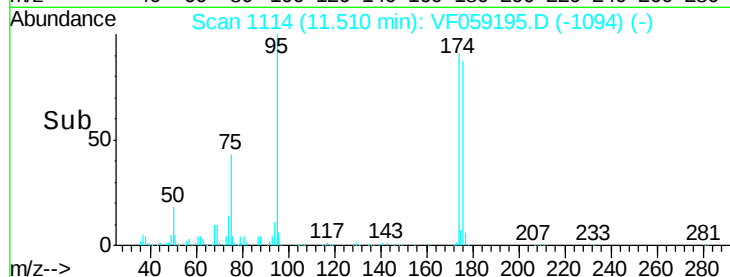
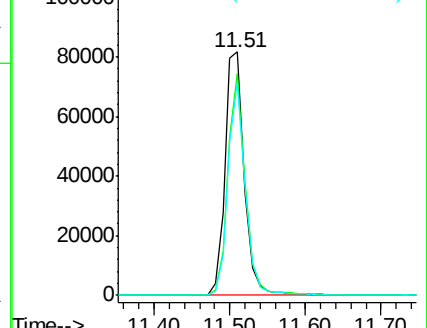
176 87.5 0.0 155.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. -0.00 min

Lab File: VF059195.D

Acq: 19 Jun 2018 18:15

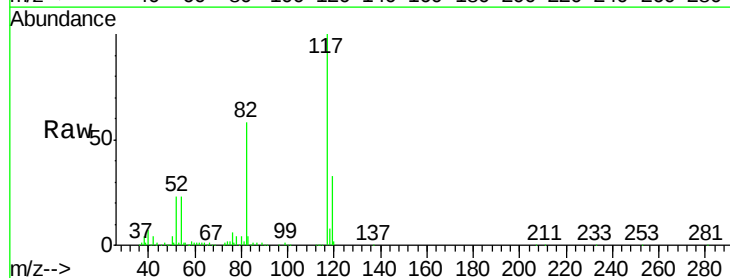
Tgt Ion: 117 Resp: 279460

Ion Ratio Lower Upper

117 100

82 57.6 45.2 67.8

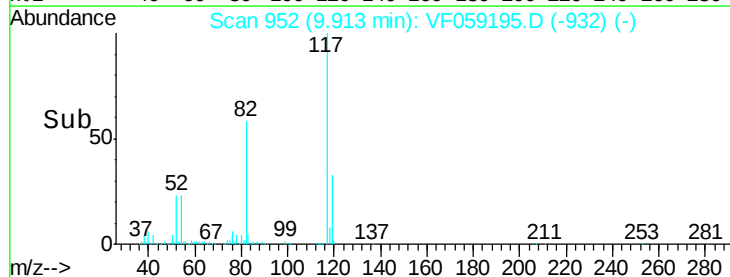
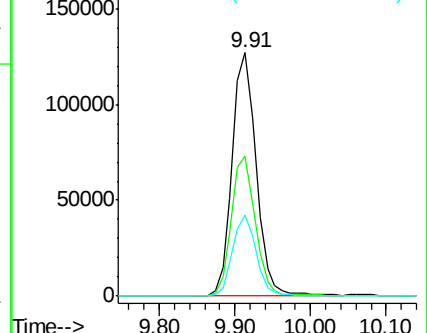
119 33.3 27.5 41.3

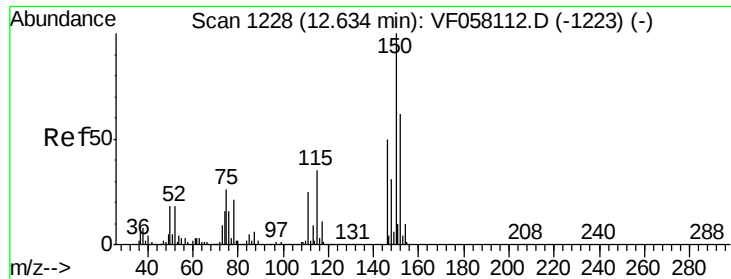


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



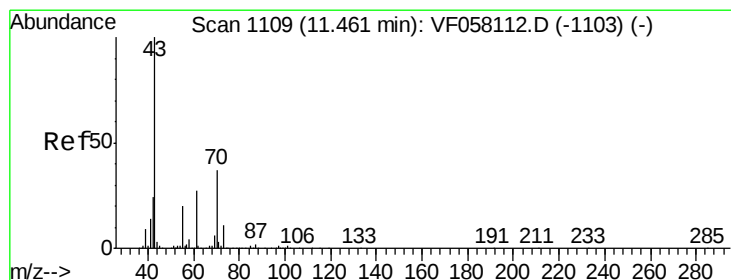
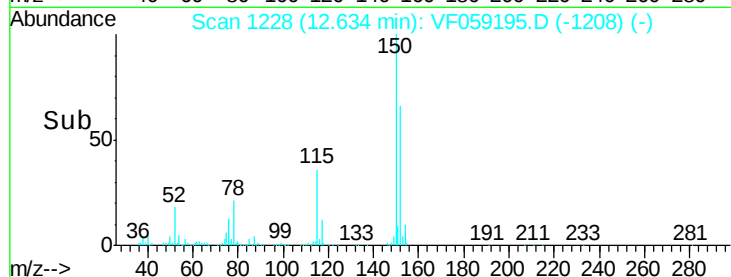
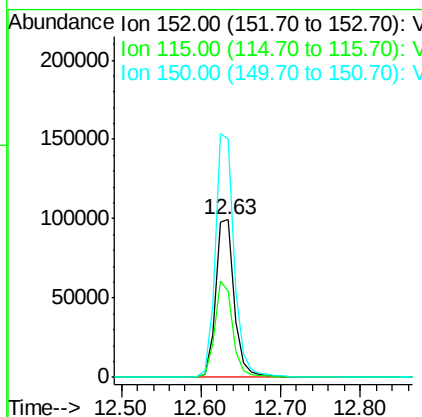
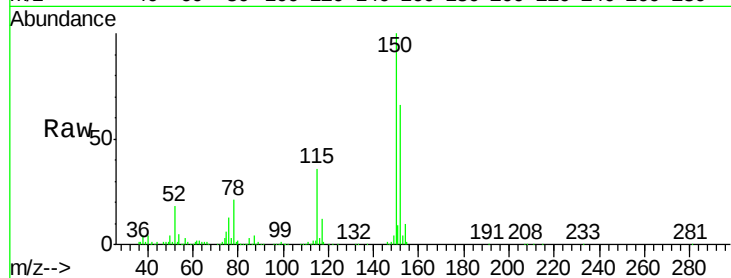


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VF059195.D
Acq: 19 Jun 2018 18:15

Instrument :
MSVOA_F
ClientSampleId :

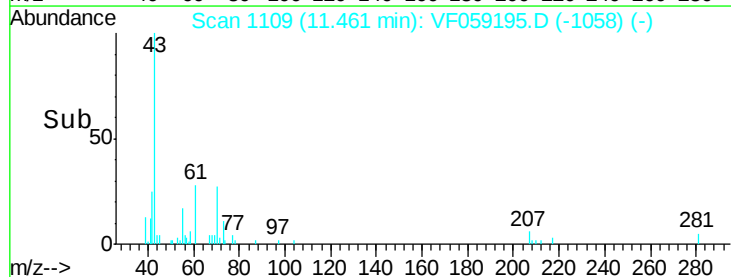
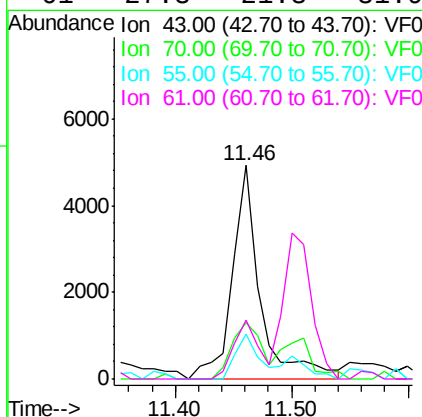
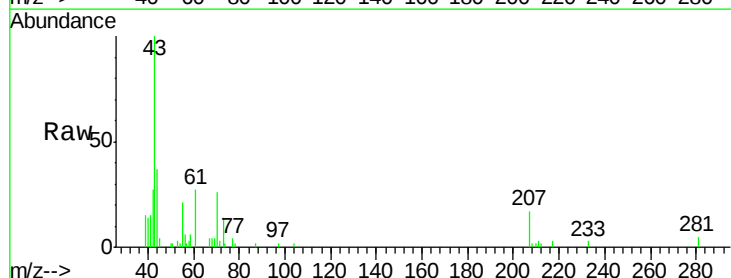
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.0	28.5	85.5
150	150.9	0.0	323.8

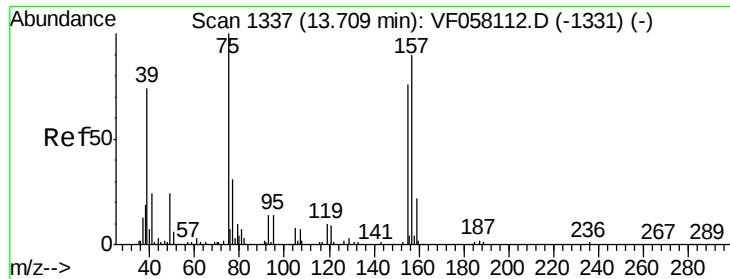


#74

N-ethyl acetate
Concen: 2.008 ug/l
RT: 11.46 min Scan# 1109
Delta R.T. -0.00 min
Lab File: VF059195.D
Acq: 19 Jun 2018 18:15

Tgt Ion	Ratio	Lower	Upper
43	100		
70	26.3	29.2	43.8#
55	21.0	15.8	23.6
61	27.3	21.3	31.9





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.200 ug/l

RT: 13.72 min Scan# 1338

Delta R.T. 0.01 min

Lab File: VF059195.D

Acq: 19 Jun 2018 18:15

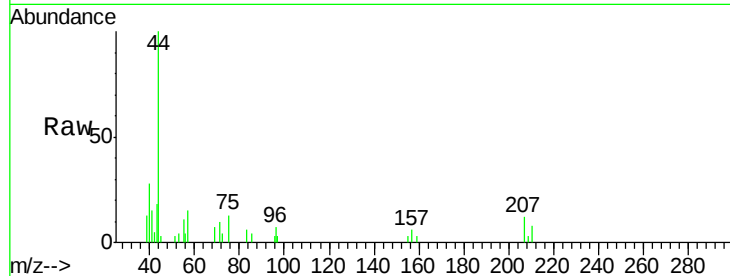
Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 75 Resp: 638

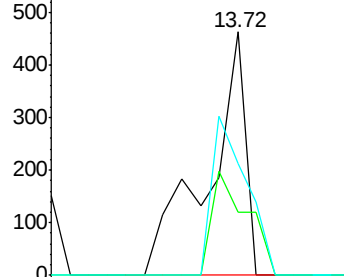
Ion	Ratio	Lower	Upper
75	100		
155	26.1	38.0	114.0#
157	46.0	45.1	135.5



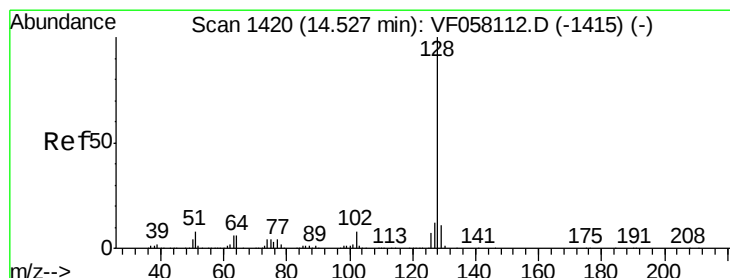
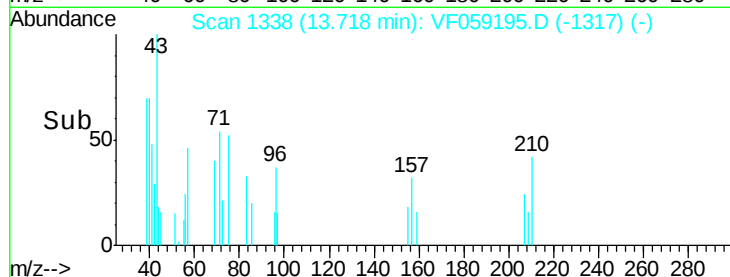
Abundance Ion 75.00 (74.70 to 75.70): VF058112.D (-1331) (-)

Ion 155.00 (154.70 to 155.70): VF058112.D (-1331) (-)

Ion 157.00 (156.70 to 157.70): VF058112.D (-1331) (-)



Time-->



#95

Naphthalene

Concen: 1.425 ug/l

RT: 14.53 min Scan# 1420

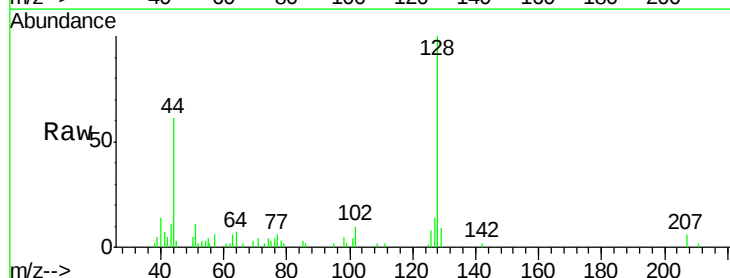
Delta R.T. -0.00 min

Lab File: VF059195.D

Acq: 19 Jun 2018 18:15

Tgt Ion: 128 Resp: 10899

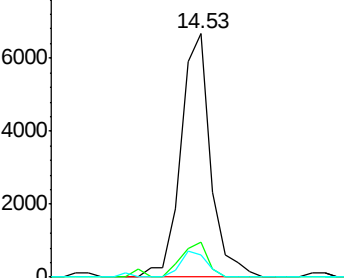
Ion	Ratio	Lower	Upper
128	100		
127	14.3	9.9	14.9
129	9.3	8.7	13.1



Abundance Ion 128.00 (127.70 to 128.70): VF058112.D (-1415) (-)

Ion 127.00 (126.70 to 127.70): VF058112.D (-1415) (-)

Ion 129.00 (128.70 to 129.70): VF058112.D (-1415) (-)



Time-->

