

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF061818\
 Data File : VF059175.D
 Acq On : 18 Jun 2018 15:01
 Operator : VA/AP
 Sample : J3556-01
 Misc : 6.49g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 MW286-18-SRI3

Quant Time: Jun 19 02:55:53 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	233110	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	367317	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	312430	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	159013	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	165497	58.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	117.08%	
35) Dibromofluoromethane	4.28	113	148592	57.65	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	115.30%	
50) Toluene-d8	7.70	98	357062	47.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.32%	
62) 4-Bromofluorobenzene	11.51	95	205281	52.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.72%	

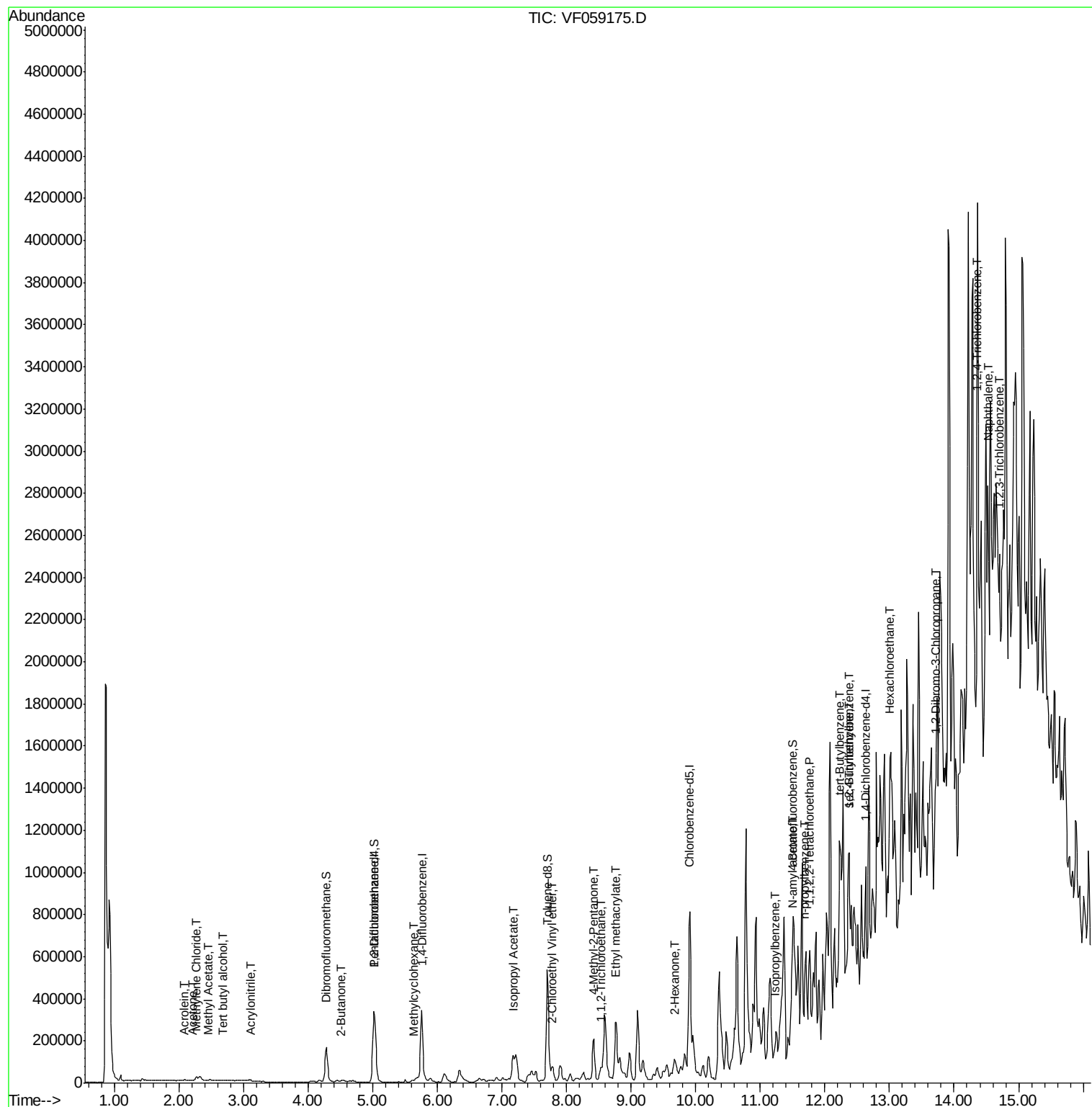
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.68	59	1172	6.470	ug/l #	71
13) Acrolein	2.09	56	1670	10.651	ug/l #	27
15) Acrylonitrile	3.10	53	451	1.254	ug/l #	52
16) Acetone	2.19	43	1485	2.200	ug/l	93
18) Methyl Acetate	2.44	43	1606	1.384	ug/l	98
20) Methylene Chloride	2.27	84	10614	6.567	ug/l #	94
25) 2-Butanone	4.51	43	8102	7.742	ug/l	95
39) Methylcyclohexane	5.63	83	3828	1.055	ug/l #	79
43) Isopropyl Acetate	7.17	43	10942	3.714	ug/l #	52
51) 4-Methyl-2-Pentanone	8.41	43	107098	53.036	ug/l #	43
55) 1,1,2-Trichloroethane	8.53	97	15671	7.265	ug/l #	54
56) Ethyl methacrylate	8.77	69	127598	46.931	ug/l #	86
58) 2-Chloroethyl Vinyl ether	7.76	63	1386	7.129	ug/l	100
59) 2-Hexanone	9.67	43	12336	7.723	ug/l #	33
73) Isopropylbenzene	11.22	105	26583	2.415	ug/l	99
74) N-amyl acetate	11.49	43	40557	10.313	ug/l #	17
75) 1,1,2,2-Tetrachloroethane	11.76	83	68775	26.350	ug/l #	40
78) n-propylbenzene	11.68	91	15084	1.158	ug/l	95
83) tert-Butylbenzene	12.22	119	62105	6.864	ug/l	83
84) 1,2,4-Trimethylbenzene	12.38	105	197043	20.871	ug/l #	28
85) sec-Butylbenzene	12.38	105	197043	16.028	ug/l #	79
90) Hexachloroethane	13.00	117	4620	1.858	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.71	75	1473	2.877	ug/l #	43
93) 1,2,4-Trichlorobenzene	14.35	180	26196	7.600	ug/l #	1
95) Naphthalene	14.52	128	30242	4.108	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.70	180	30704	9.640	ug/l #	1

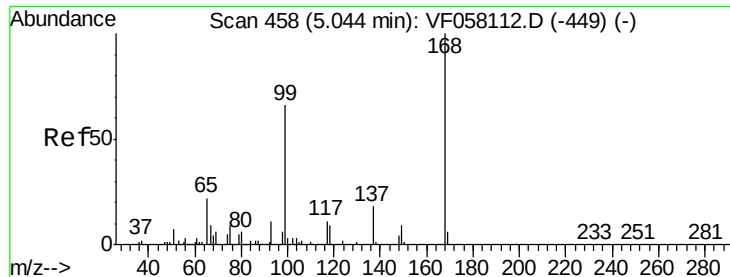
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jun 07 10:52:00 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.01 min

Lab File: VF059175.D

Acq: 18 Jun 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

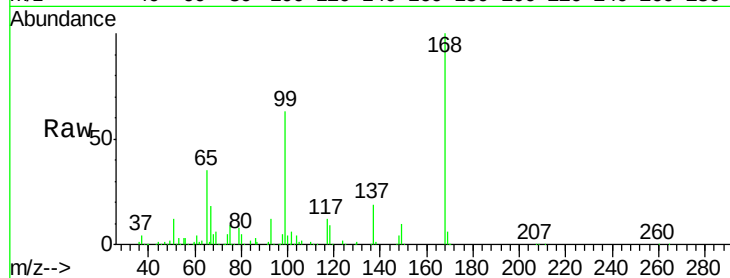
MW286-18-SRI3

Tgt Ion:168 Resp: 233110

Ion Ratio Lower Upper

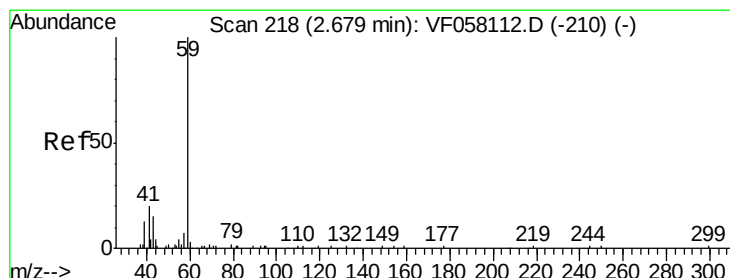
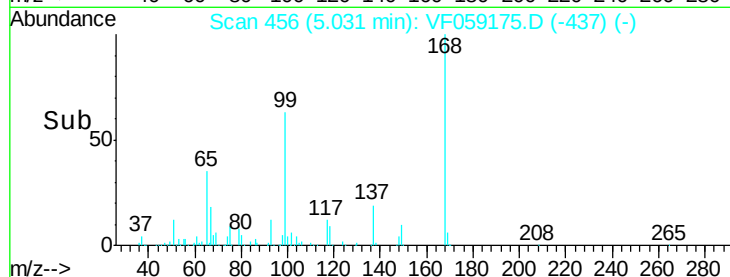
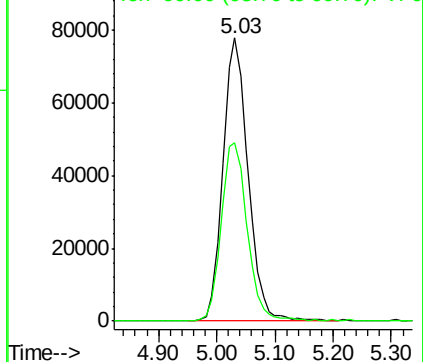
168 100

99 63.0 52.9 79.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 6.470 ug/l

RT: 2.68 min Scan# 218

Delta R.T. 0.01 min

Lab File: VF059175.D

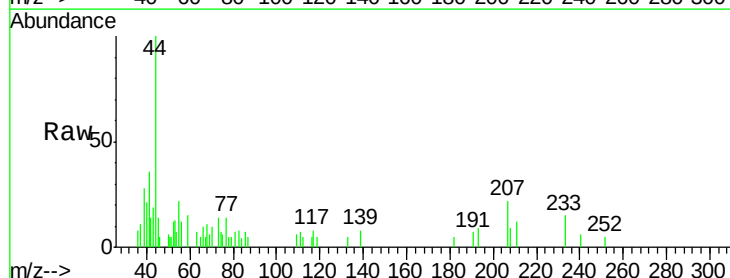
Acq: 18 Jun 2018 15:01

Tgt Ion: 59 Resp: 1172

Ion Ratio Lower Upper

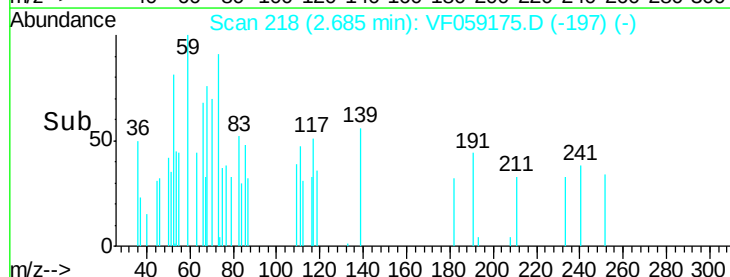
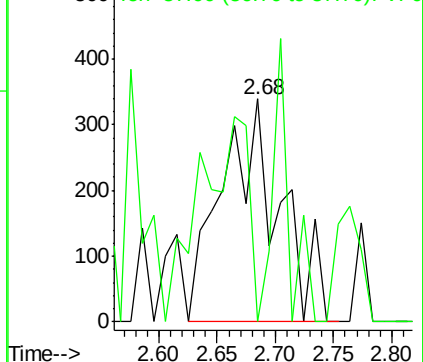
59 100

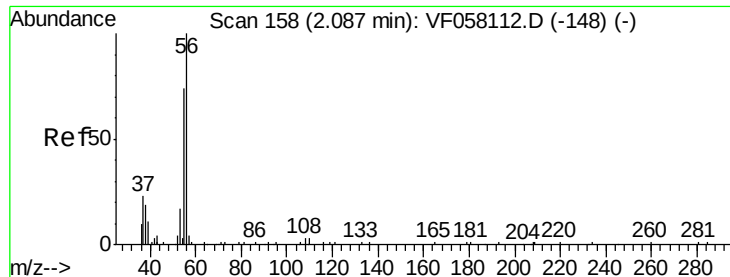
57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 10.651 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.01 min

Lab File: VF059175.D

Acq: 18 Jun 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

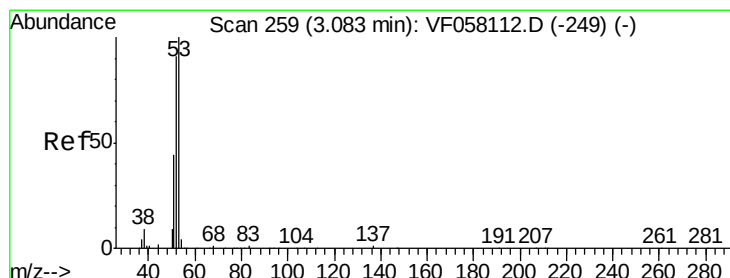
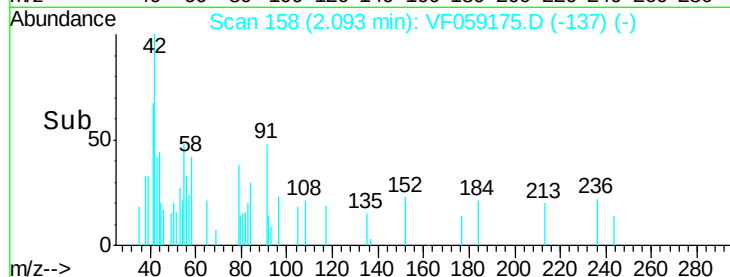
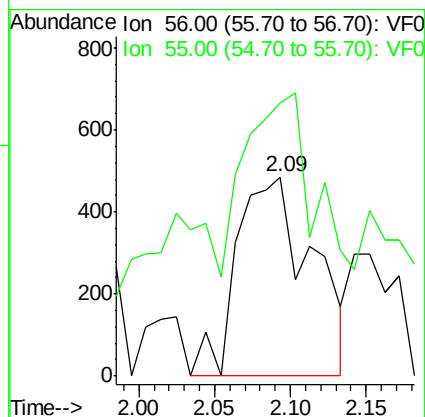
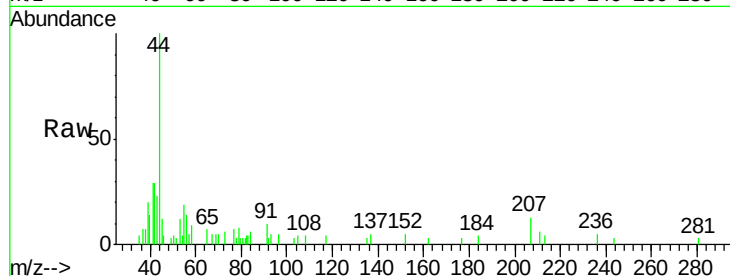
MW286-18-SRI3

Tgt Ion: 56 Resp: 1670

Ion Ratio Lower Upper

56 100

55 137.0 60.0 90.0#



#15

Acrylonitrile

Concen: 1.254 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.02 min

Lab File: VF059175.D

Acq: 18 Jun 2018 15:01

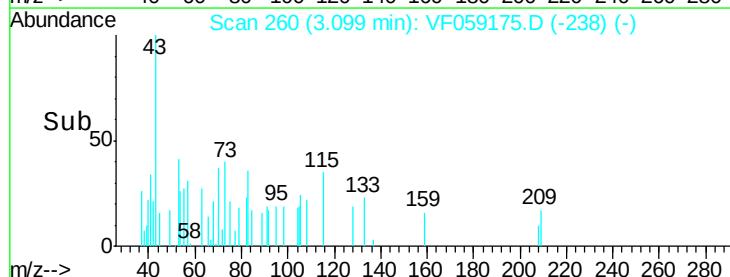
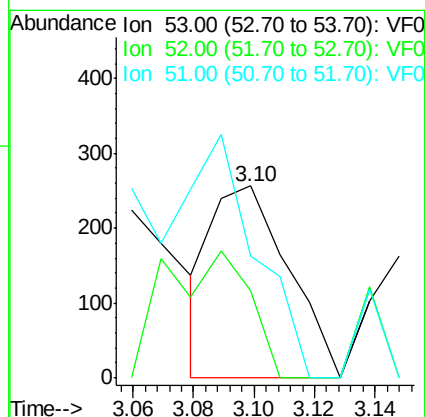
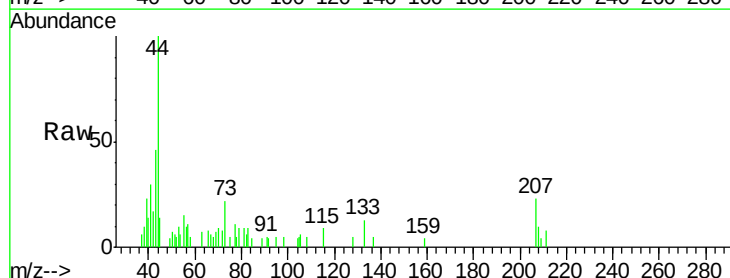
Tgt Ion: 53 Resp: 451

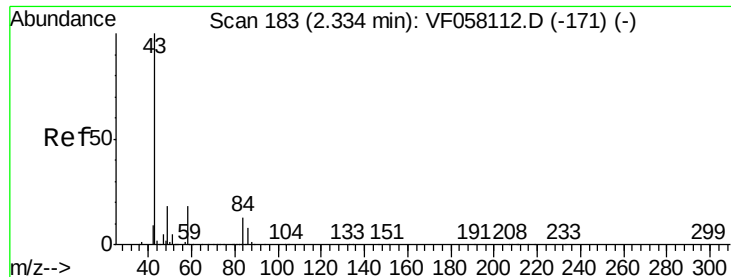
Ion Ratio Lower Upper

53 100

52 27.4 73.2 109.8#

51 38.5 35.6 53.4

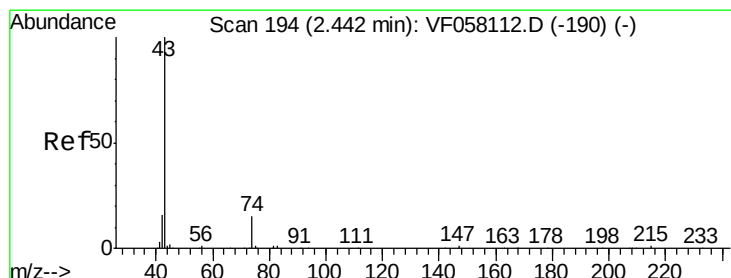
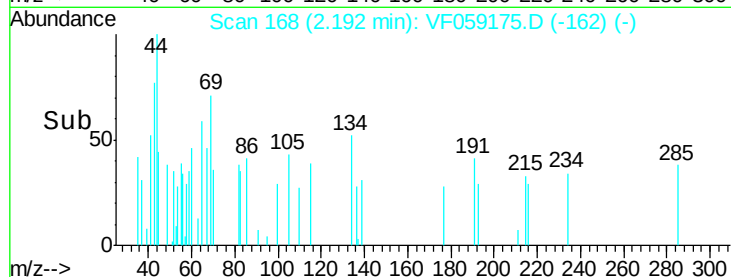
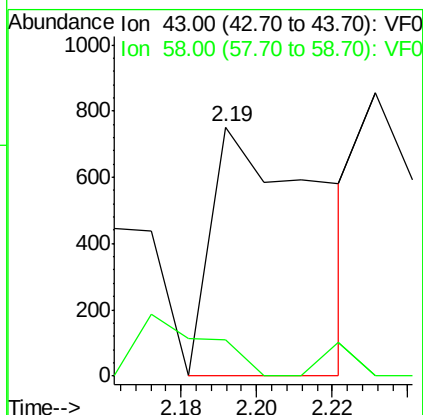
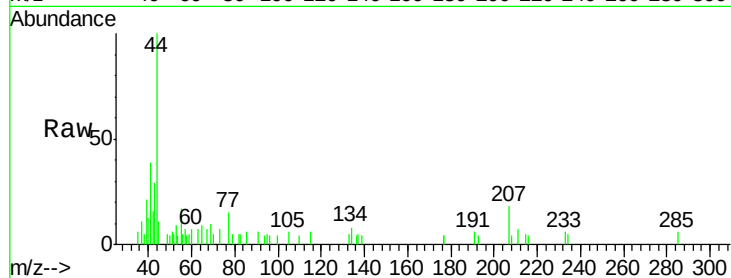




#16
Acetone
Concen: 2.200 ug/l
RT: 2.19 min Scan# 168
Delta R.T. -0.14 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

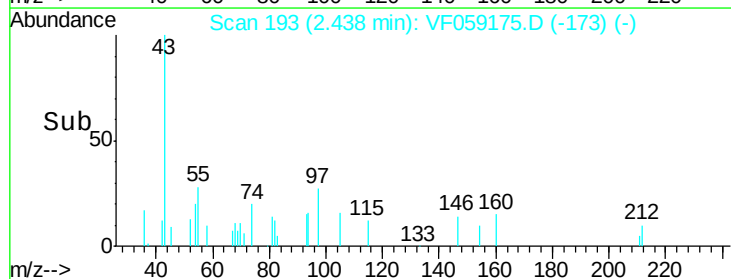
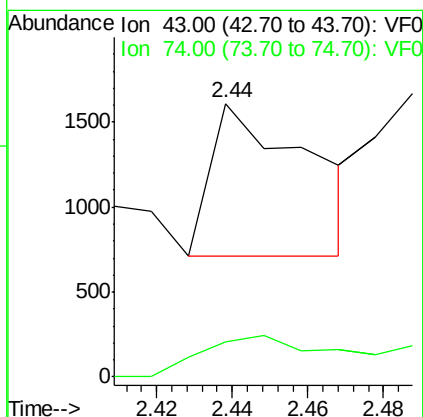
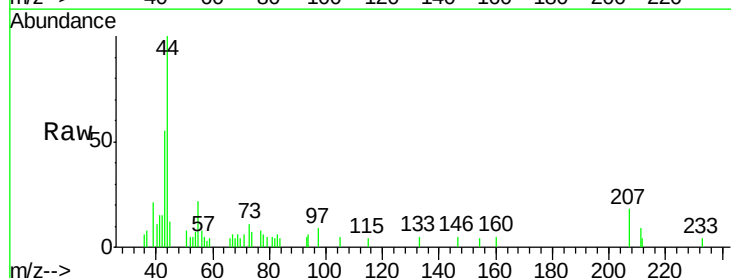
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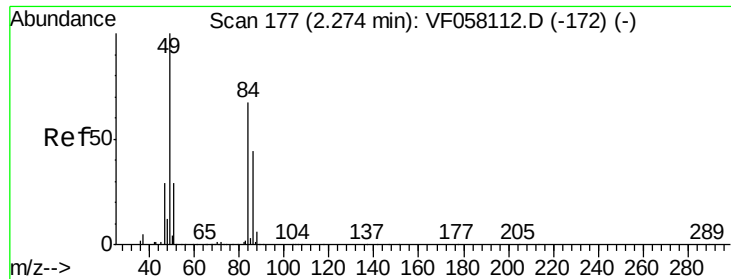
Tgt Ion: 43 Resp: 1485
Ion Ratio Lower Upper
43 100
58 14.8 14.4 21.6



#18
Methyl Acetate
Concen: 1.384 ug/l
RT: 2.44 min Scan# 193
Delta R.T. -0.00 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

Tgt Ion: 43 Resp: 1606
Ion Ratio Lower Upper
43 100
74 12.8 10.9 16.3

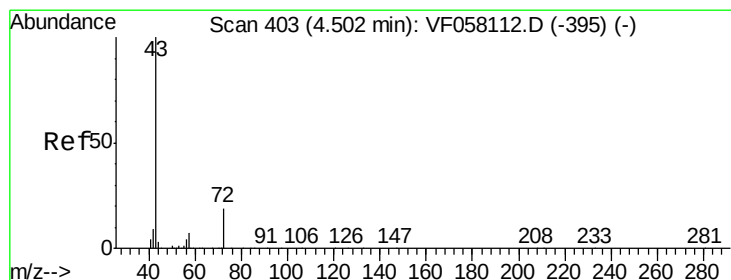
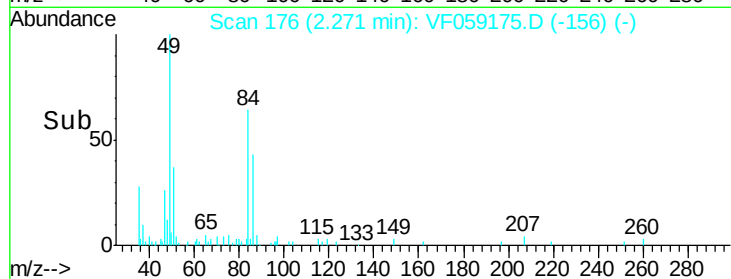
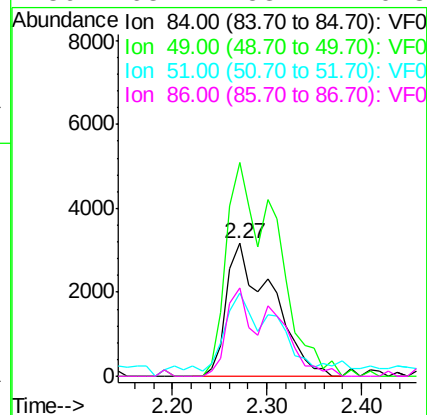
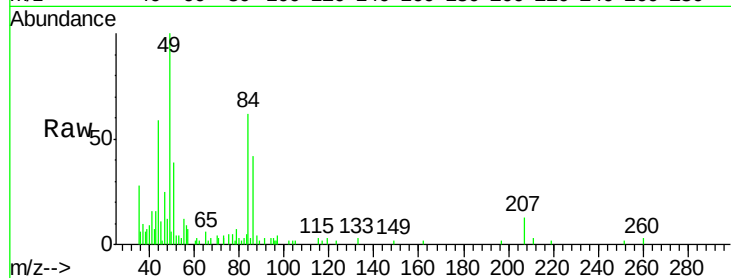




#20
Methylene Chloride
Concen: 6.567 ug/l
RT: 2.27 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

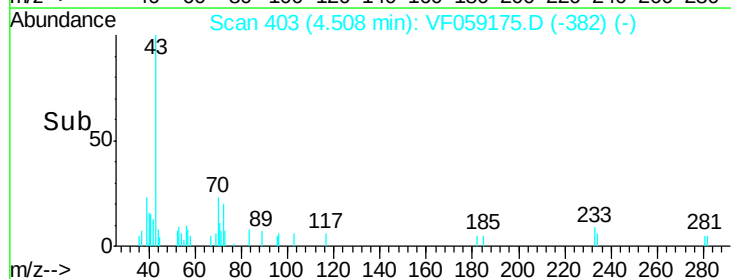
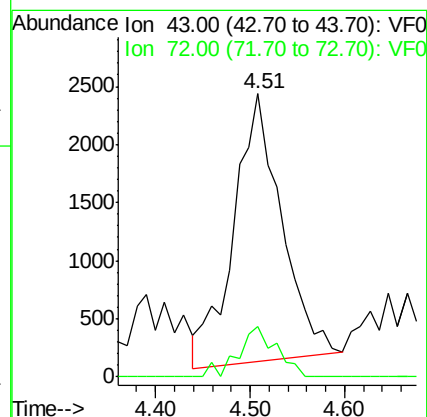
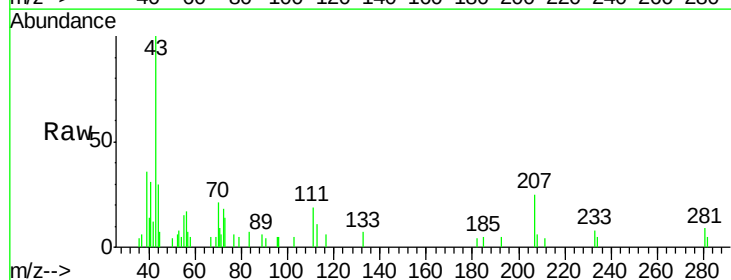
Instrument :
MSVOA_F
ClientSampleId :
MW286-18-SRI3

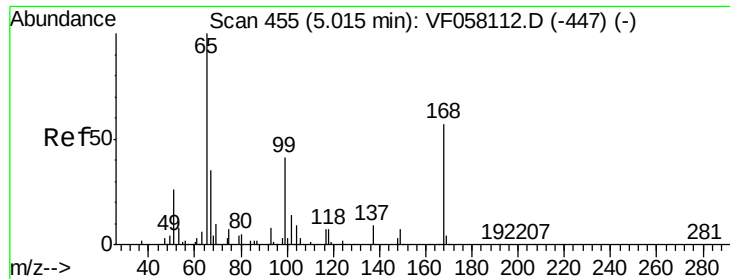
Tgt Ion: 84 Resp: 10614
Ion Ratio Lower Upper
84 100
49 153.3 121.0 181.4
51 59.3 35.8 53.6#
86 63.7 53.2 79.8



#25
2-Butanone
Concen: 7.742 ug/l
RT: 4.51 min Scan# 403
Delta R.T. 0.01 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

Tgt Ion: 43 Resp: 8102
Ion Ratio Lower Upper
43 100
72 17.7 16.1 24.1

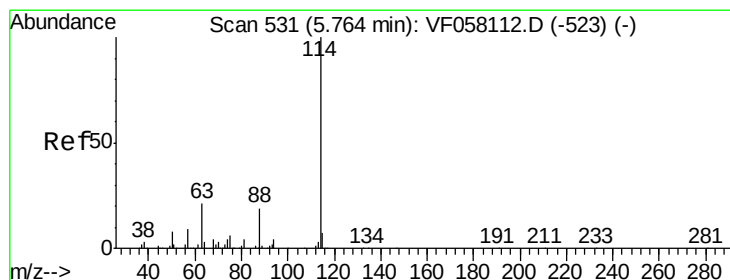
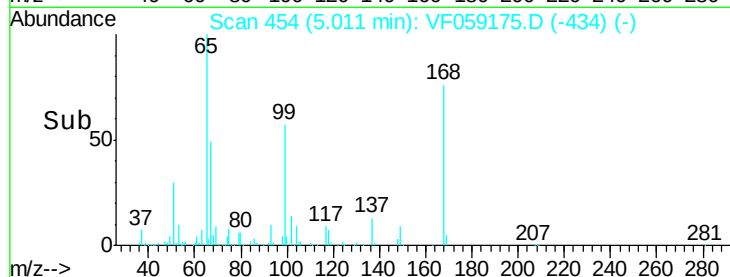
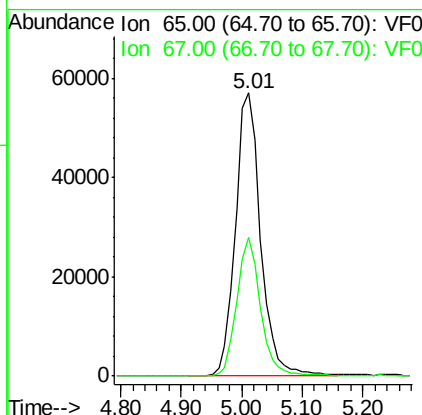
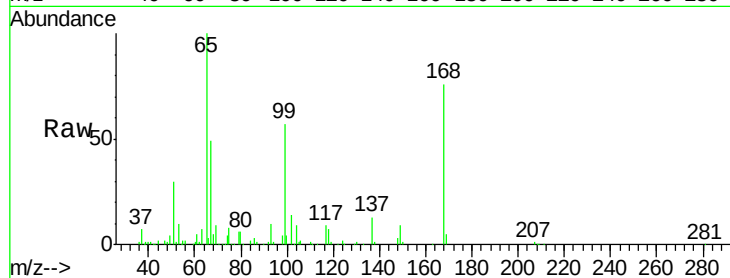




#33
 1,2-Dichloroethane-d4
 Concen: 58.538 ug/l
 RT: 5.01 min Scan# 454
 Delta R.T. -0.00 min
 Lab File: VF059175.D
 Acq: 18 Jun 2018 15:01

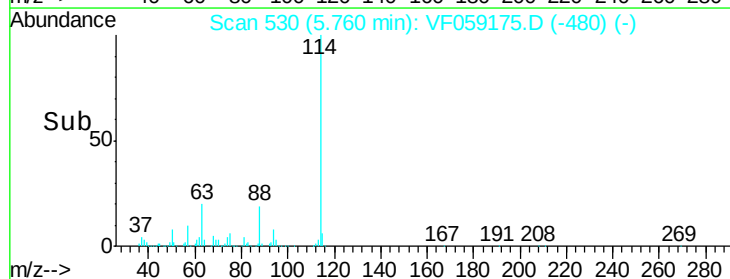
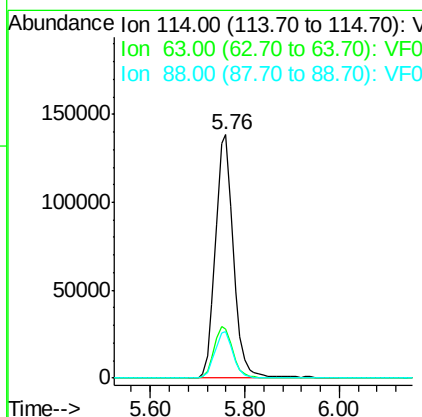
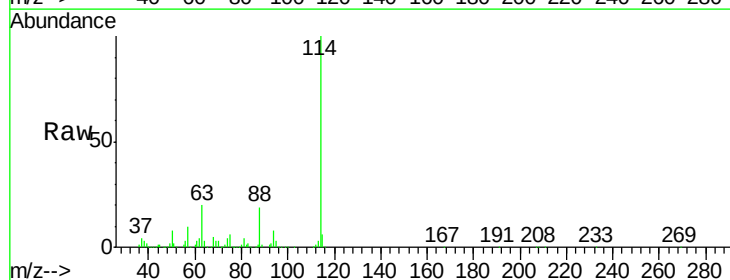
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 MSVOA_F
 ClientSampleId :
 MW286-18-SRI3

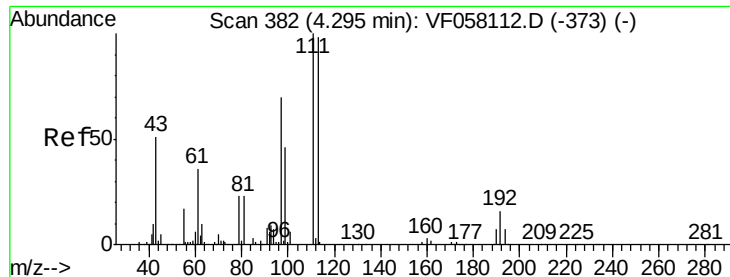
Tgt Ion: 65 Resp: 165497
 Ion Ratio Lower Upper
 65 100
 67 48.9 0.0 97.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. -0.00 min
 Lab File: VF059175.D
 Acq: 18 Jun 2018 15:01

Tgt Ion: 114 Resp: 367317
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.6
 88 19.2 0.0 38.8





#35

Dibromofluoromethane

Concen: 57.653 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.01 min

Lab File: VF059175.D

Acq: 18 Jun 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

MW286-18-SRI3

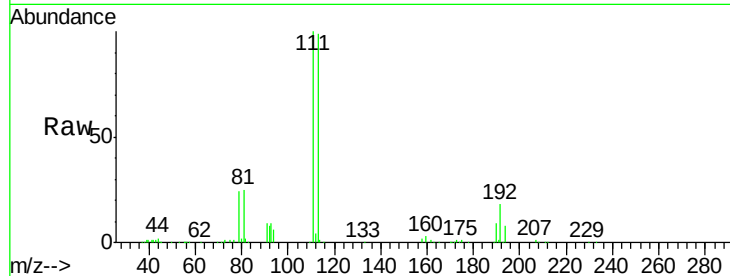
Tgt Ion: 113 Resp: 148592

Ion Ratio Lower Upper

113 100

111 101.1 81.3 121.9

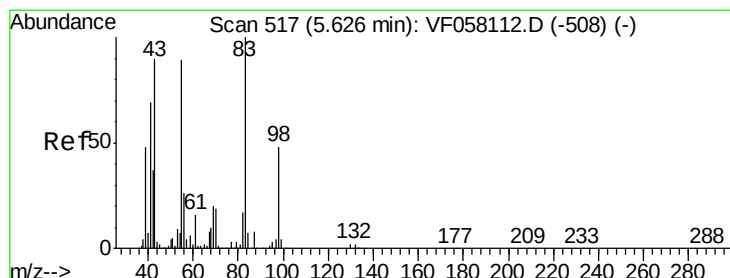
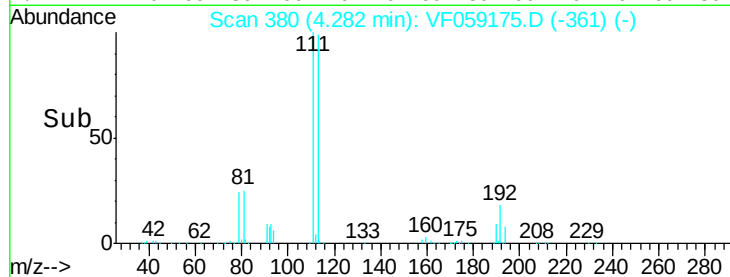
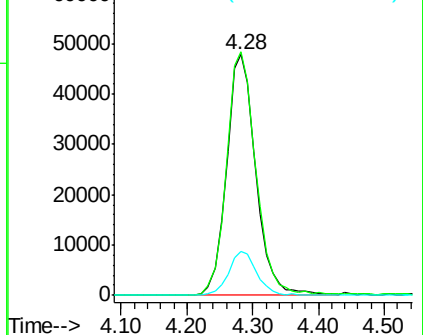
192 18.5 12.7 19.1



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

Methylcyclohexane

Concen: 1.055 ug/l

RT: 5.63 min Scan# 517

Delta R.T. 0.01 min

Lab File: VF059175.D

Acq: 18 Jun 2018 15:01

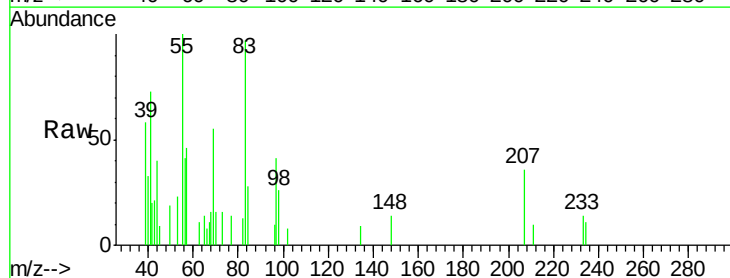
Tgt Ion: 83 Resp: 3828

Ion Ratio Lower Upper

83 100

55 103.3 71.0 106.4

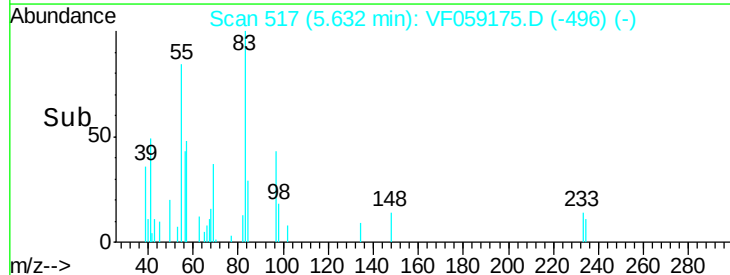
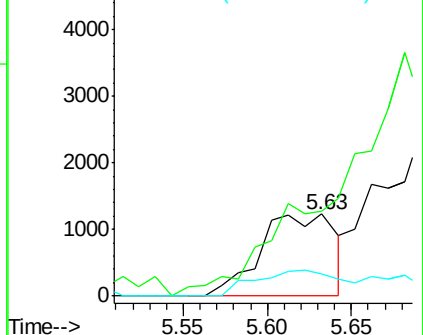
98 26.6 38.1 57.1#

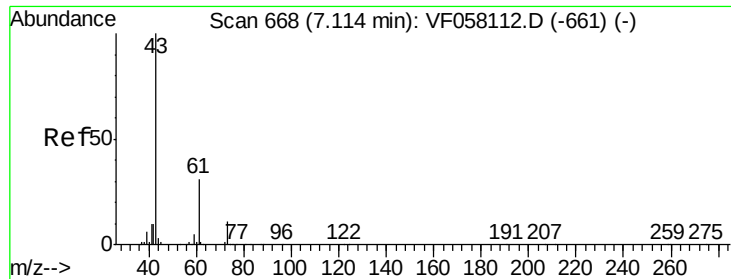


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

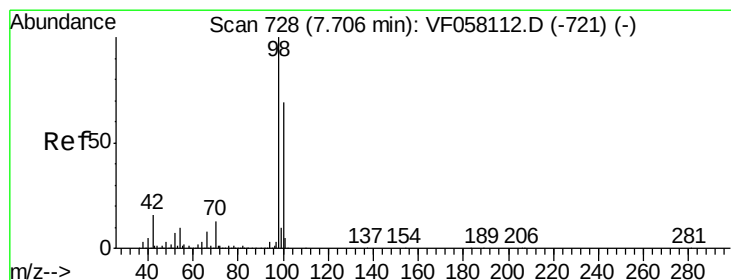
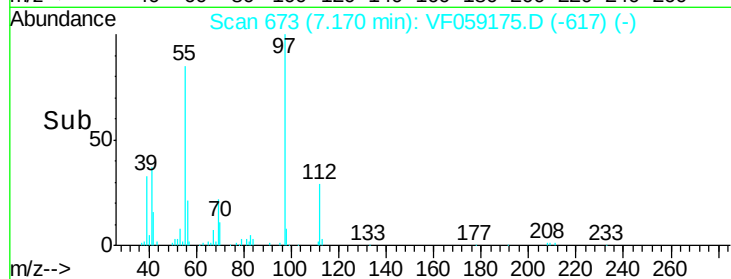
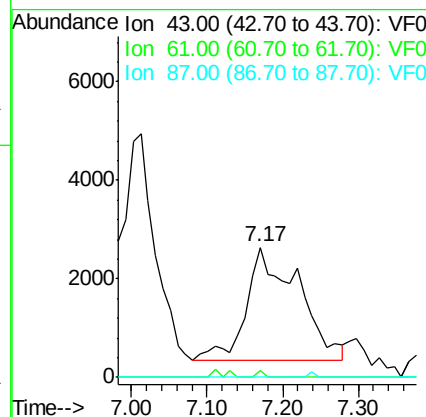
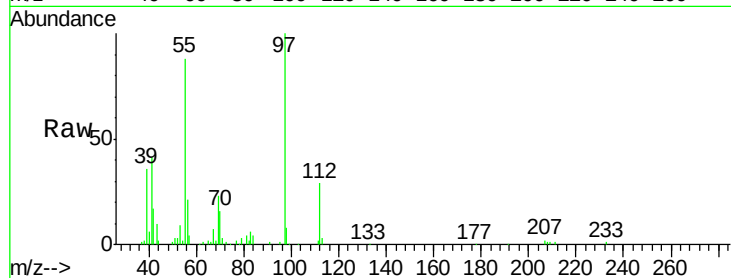




#43
Isopropyl Acetate
Concen: 3.714 ug/l
RT: 7.17 min Scan# 673
Delta R.T. 0.06 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

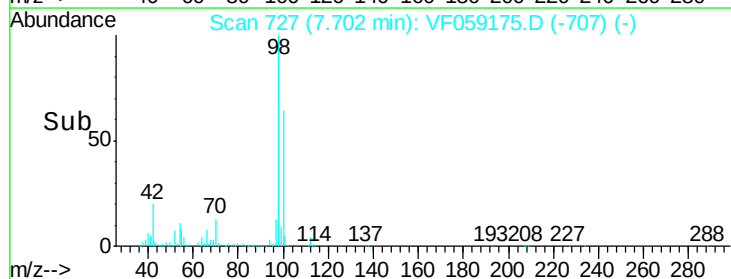
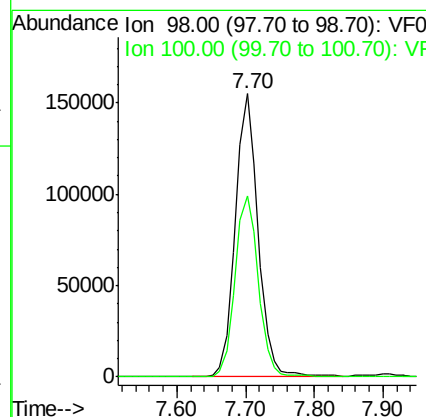
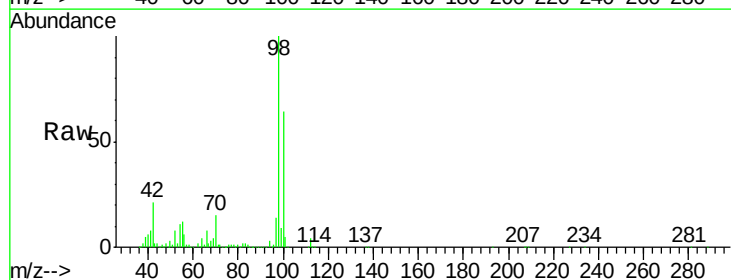
Instrument :
MSVOA_F
ClientSampleId :
MW286-18-SRI3

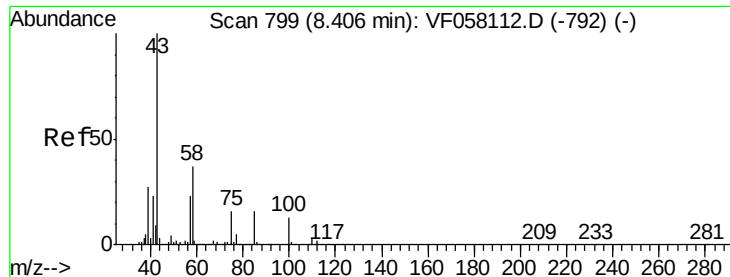
Tgt Ion: 43 Resp: 10942
Ion Ratio Lower Upper
43 100
61 4.8 25.1 37.7#
87 0.0 0.2 0.4#



#50
Toluene-d8
Concen: 47.157 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.00 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

Tgt Ion: 98 Resp: 357062
Ion Ratio Lower Upper
98 100
100 64.0 55.6 83.4

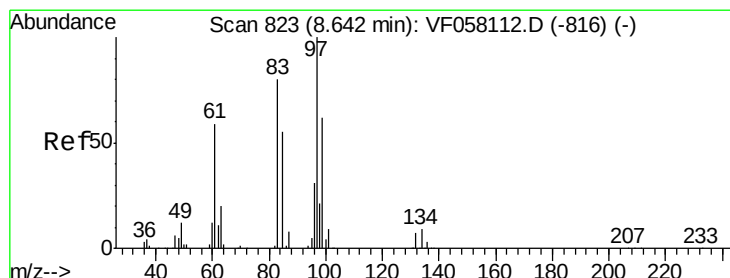
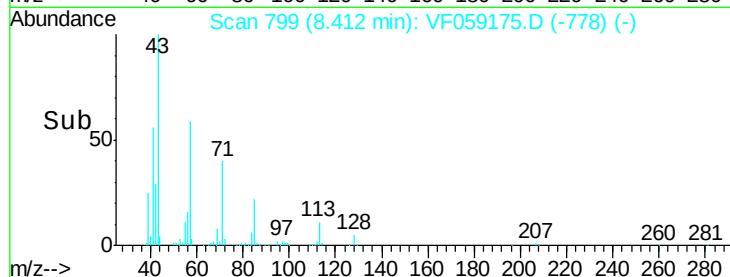
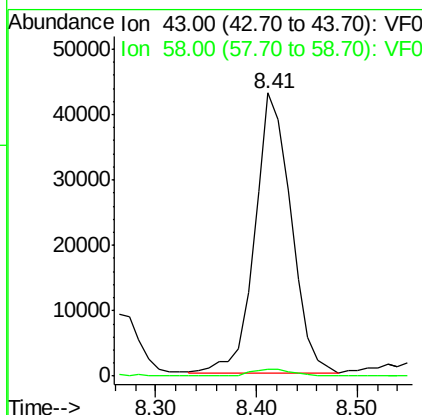
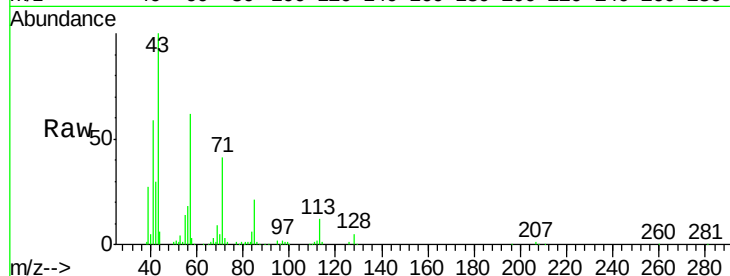




#51
 4-Methyl-2-Pentanone
 Concen: 53.036 ug/l
 RT: 8.41 min Scan# 799
 Delta R.T. 0.01 min
 Lab File: VF059175.D
 Acq: 18 Jun 2018 15:01

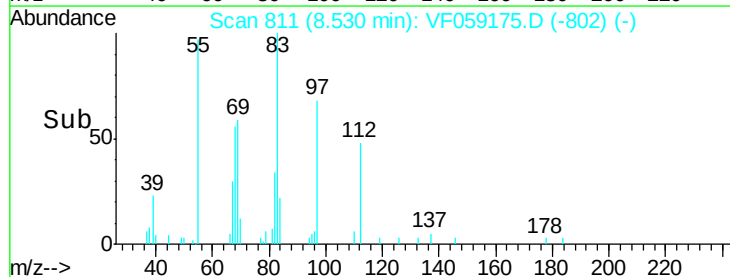
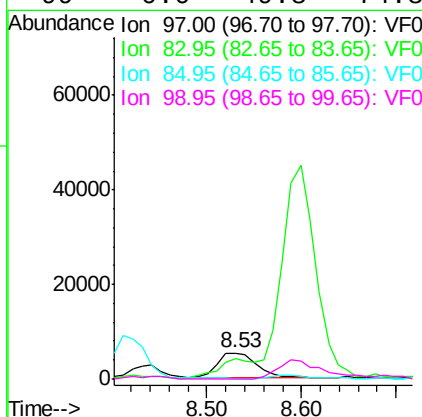
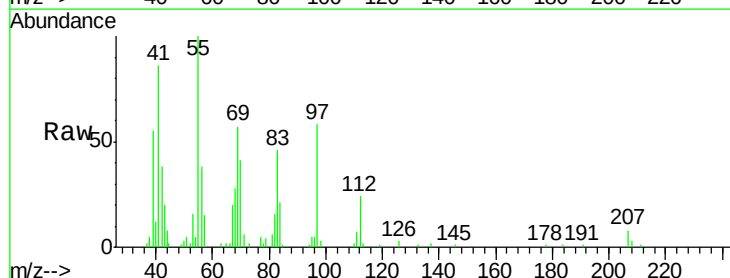
Instrument :
 MSVOA_F
 ClientSampleId :
 MW286-18-SRI3

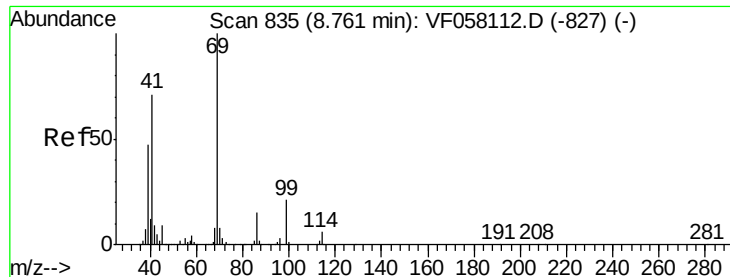
Tgt Ion: 43 Resp: 107098
 Ion Ratio Lower Upper
 43 100
 58 2.6 29.4 44.0#



#55
 1,1,2-Trichloroethane
 Concen: 7.265 ug/l
 RT: 8.53 min Scan# 811
 Delta R.T. -0.11 min
 Lab File: VF059175.D
 Acq: 18 Jun 2018 15:01

Tgt Ion: 97 Resp: 15671
 Ion Ratio Lower Upper
 97 100
 83 79.4 64.3 96.5
 85 2.3 43.8 65.8#
 99 0.0 49.8 74.8#

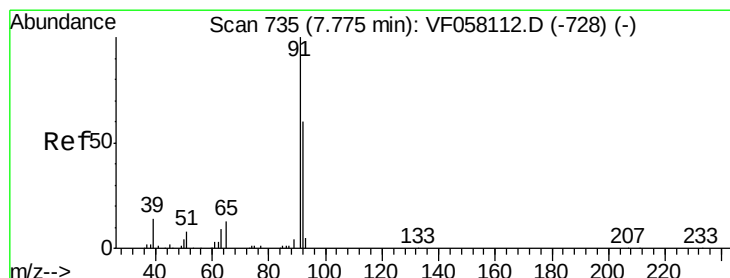
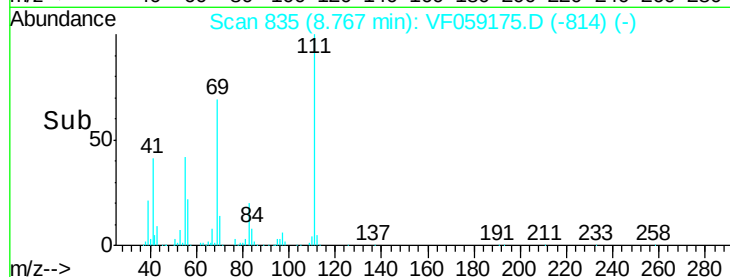
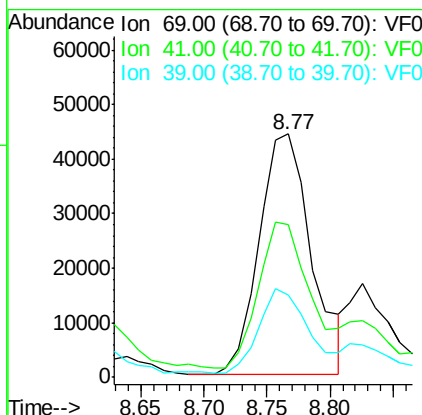
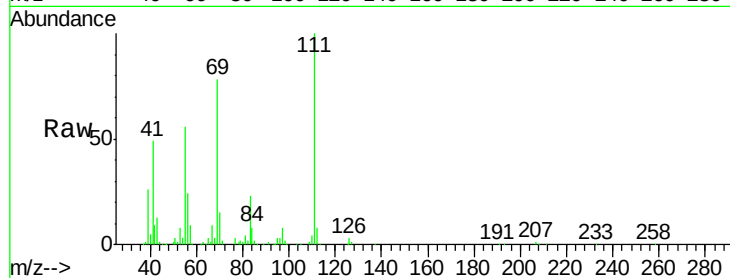




#56
Ethyl methacrylate
Concen: 46.931 ug/l
RT: 8.77 min Scan# 835
Delta R.T. 0.01 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

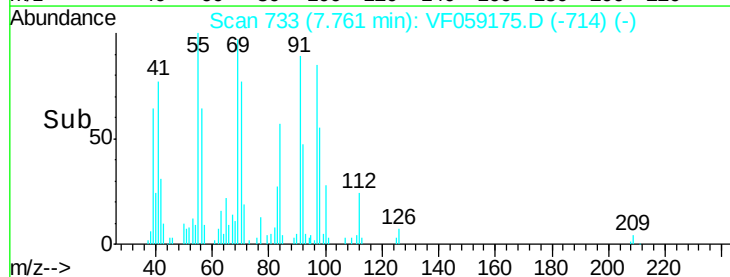
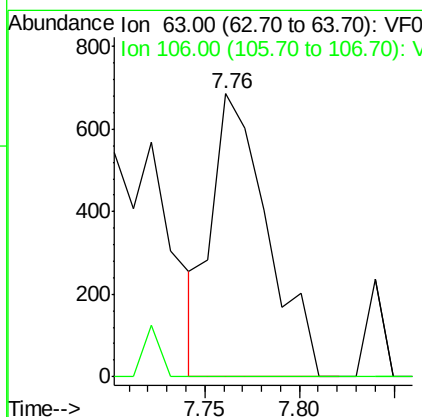
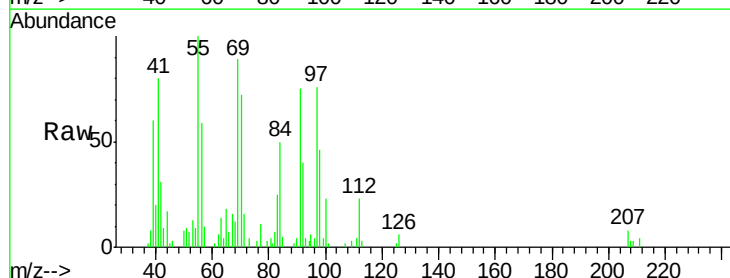
Instrument :
MSVOA_F
ClientSampleId :
MW286-18-SRI3

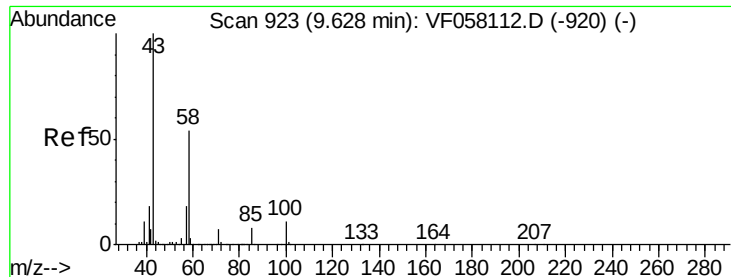
Tgt Ion: 69 Resp: 127598
Ion Ratio Lower Upper
69 100
41 62.9 56.9 85.3
39 34.0 38.0 57.0#



#58
2-Chloroethyl Vinyl ether
Concen: 7.129 ug/l
RT: 7.76 min Scan# 733
Delta R.T. -0.01 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

Tgt Ion: 63 Resp: 1386
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0

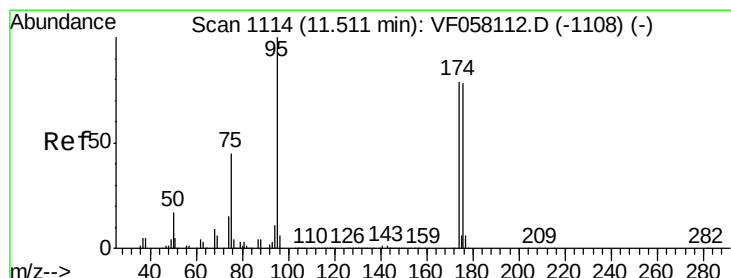
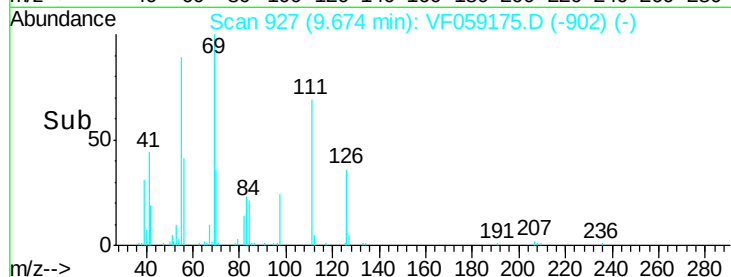
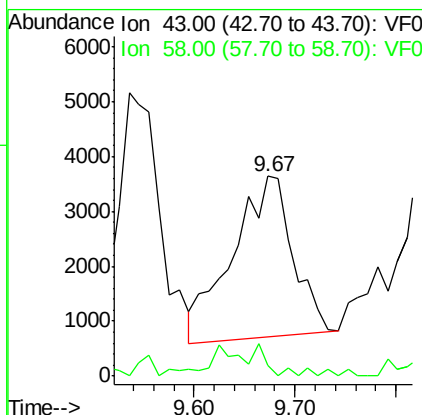
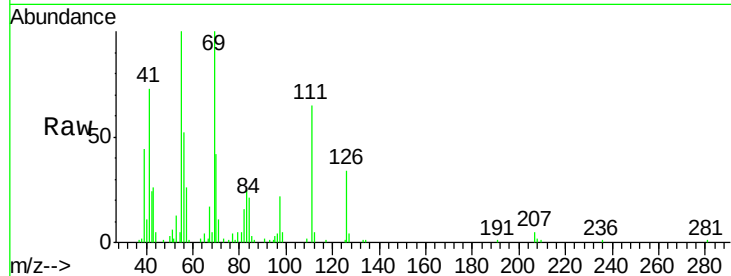




#59
2-Hexanone
Concen: 7.723 ug/l
RT: 9.67 min Scan# 927
Delta R.T. 0.05 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

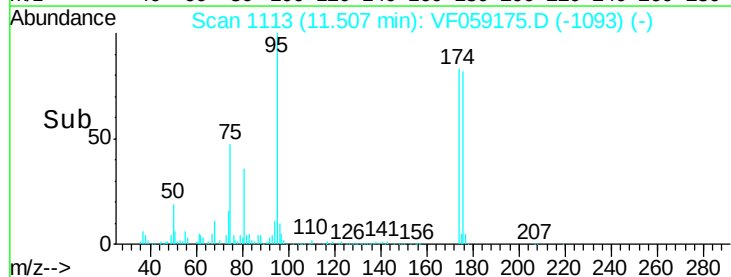
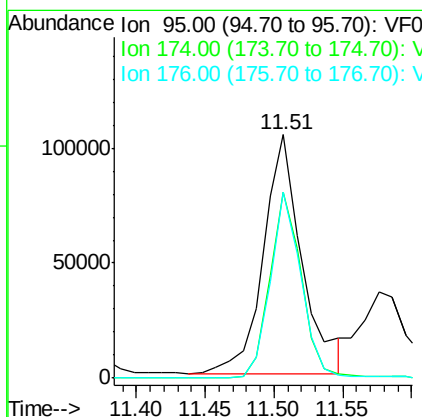
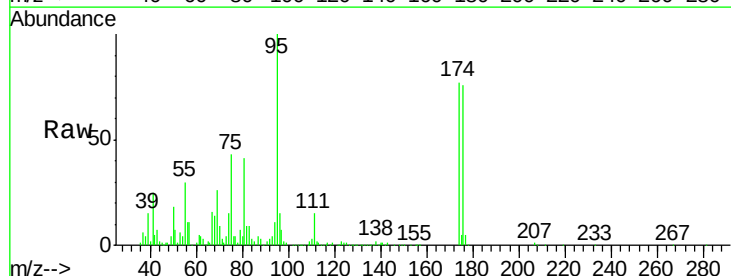
Instrument :
MSVOA_F
ClientSampleId :
MW286-18-SRI3

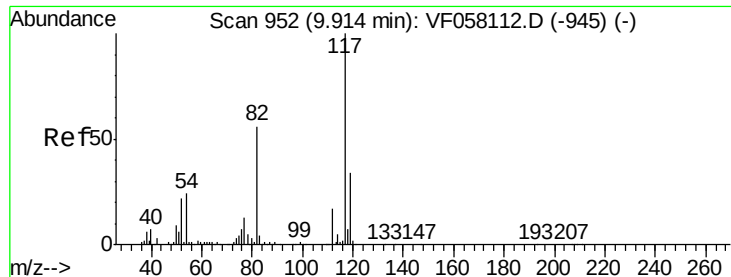
Tgt Ion: 43 Resp: 12336
Ion Ratio Lower Upper
43 100
58 5.2 26.3 78.8#



#62
4-Bromofluorobenzene
Concen: 52.859 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

Tgt Ion: 95 Resp: 205281
Ion Ratio Lower Upper
95 100
174 76.7 0.0 157.8
176 76.2 0.0 155.8

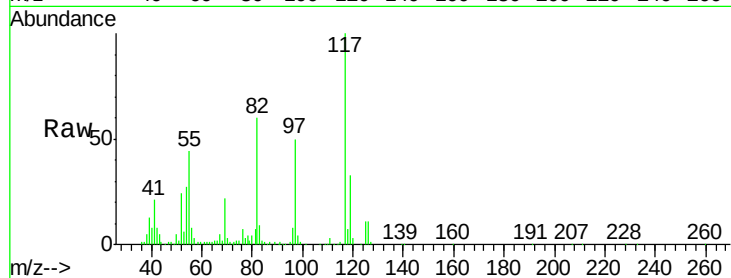




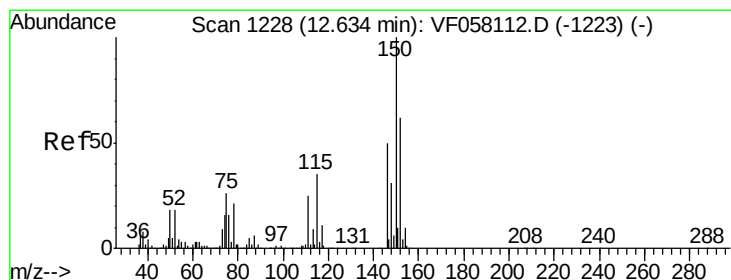
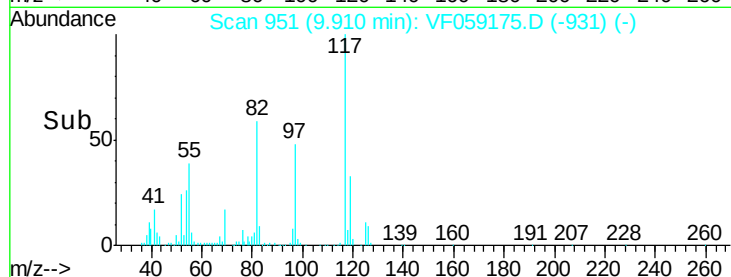
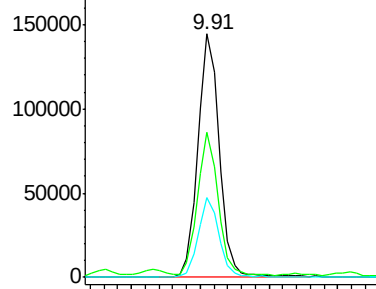
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
MW286-18-SRI3

Tgt Ion	Ratio	Lower	Upper
117	100		
82	59.8	45.2	67.8
119	32.7	27.5	41.3

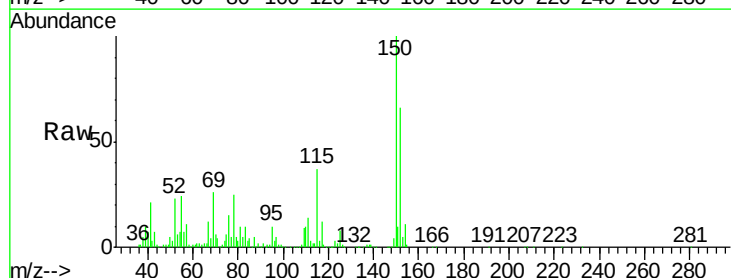


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

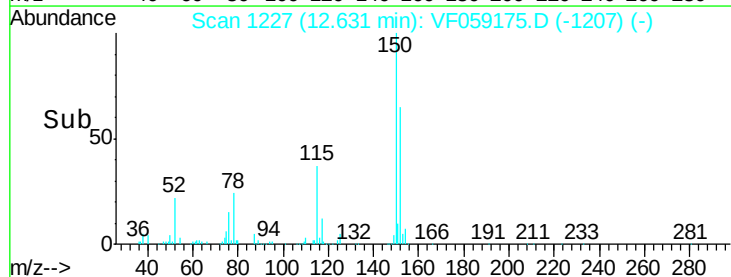
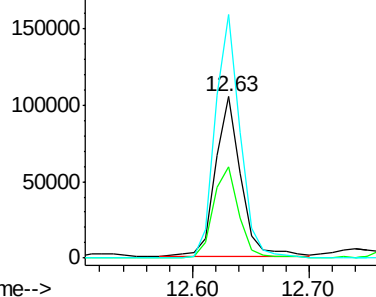


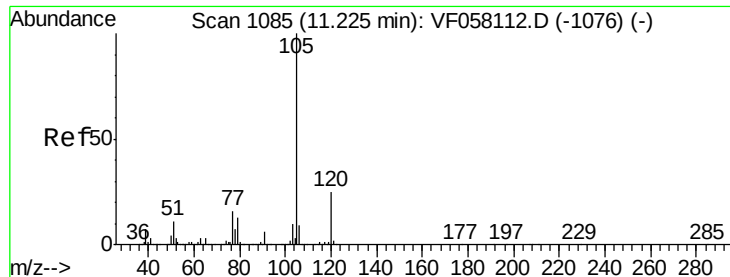
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.5	85.5
150	150.7	0.0	323.8



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





#73

Isopropylbenzene

Concen: 2.415 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.00 min

Lab File: VF059175.D

Acq: 18 Jun 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

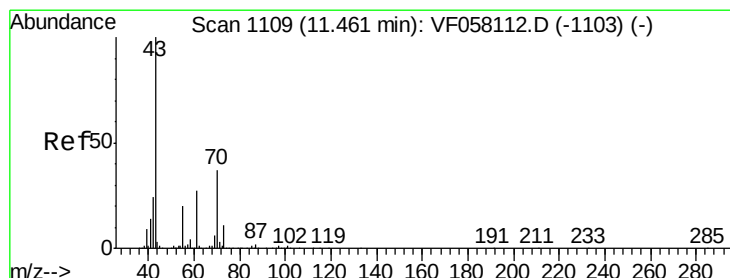
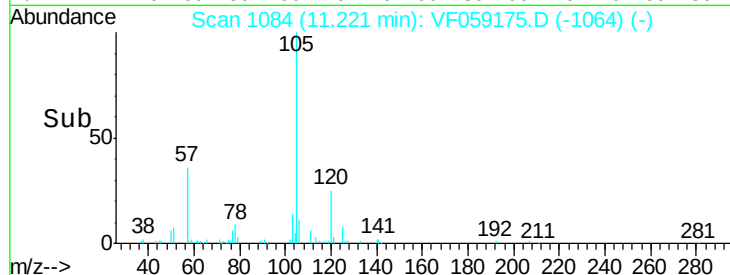
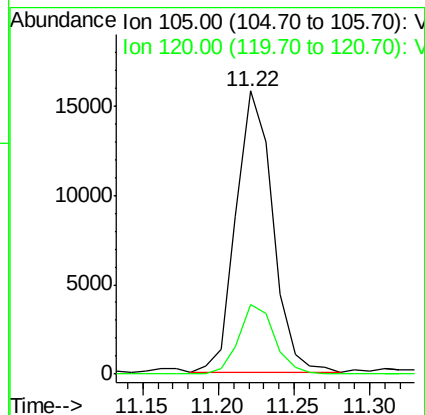
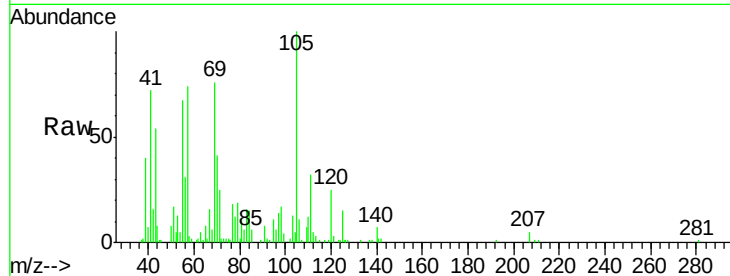
MW286-18-SRI3

Tgt Ion:105 Resp: 26583

Ion Ratio Lower Upper

105 100

120 24.7 12.7 38.1



#74

N-ethyl acetate

Concen: 10.313 ug/l

RT: 11.49 min Scan# 1111

Delta R.T. 0.03 min

Lab File: VF059175.D

Acq: 18 Jun 2018 15:01

Tgt Ion: 43 Resp: 40557

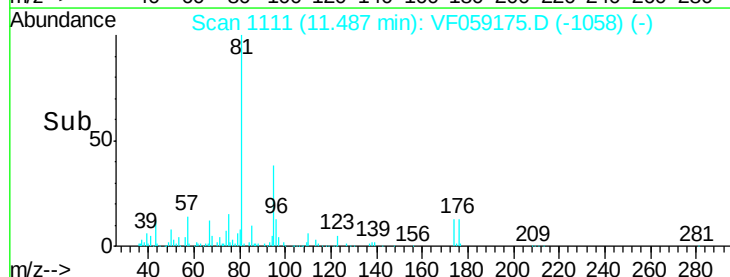
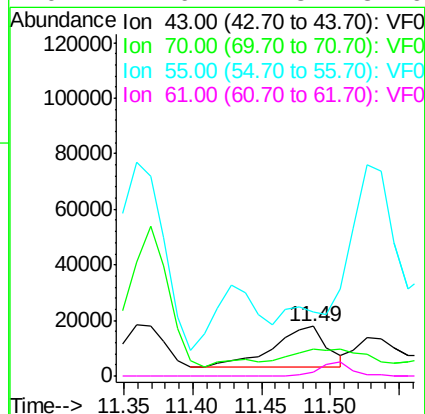
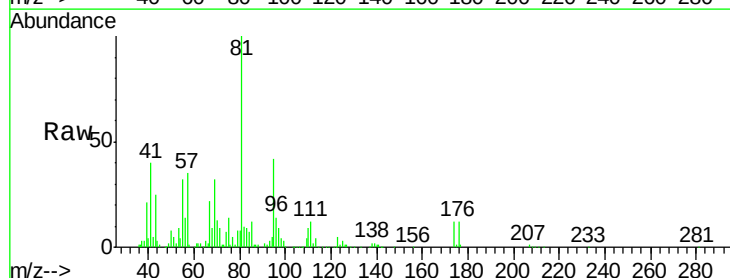
Ion Ratio Lower Upper

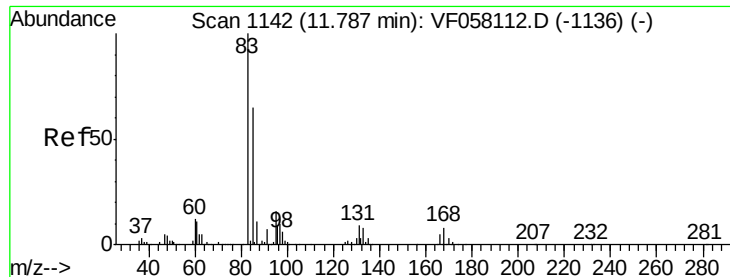
43 100

70 54.5 29.2 43.8#

55 129.6 15.8 23.6#

61 7.6 21.3 31.9#





#75

1,1,2,2-Tetrachloroethane

Concen: 26.350 ug/l

RT: 11.76 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF059175.D

Acq: 18 Jun 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

MW286-18-SRI3

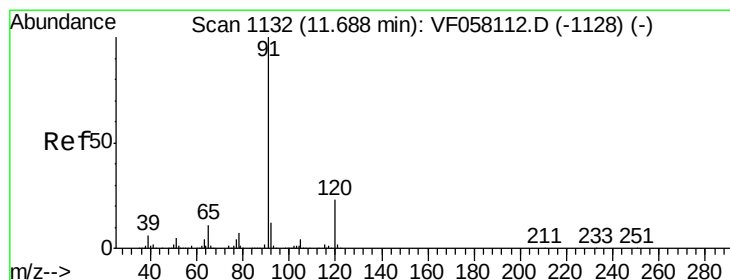
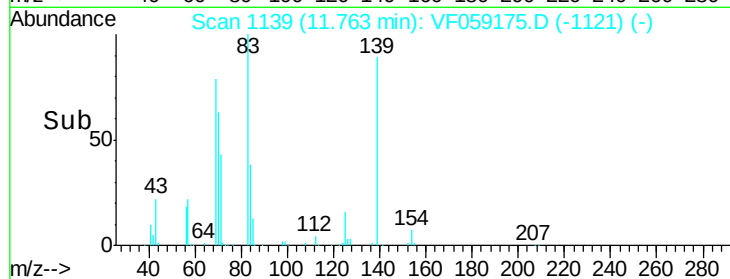
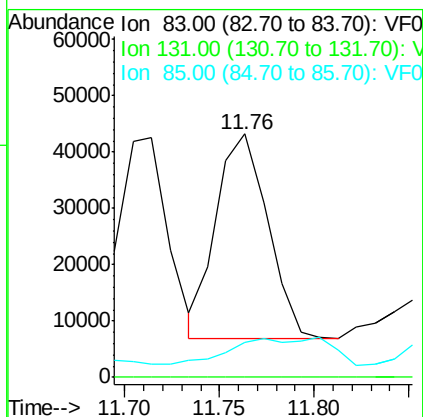
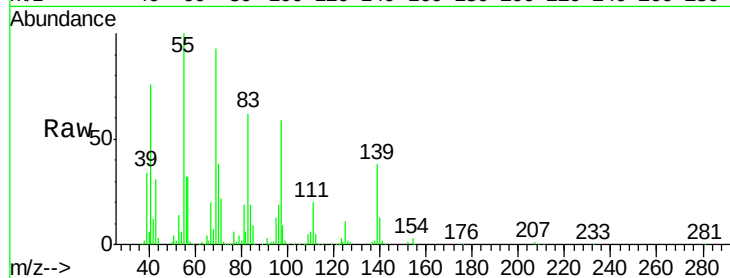
Tgt Ion: 83 Resp: 68775

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.7#

85 14.2 32.8 98.3#



#78

n-propylbenzene

Concen: 1.158 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF059175.D

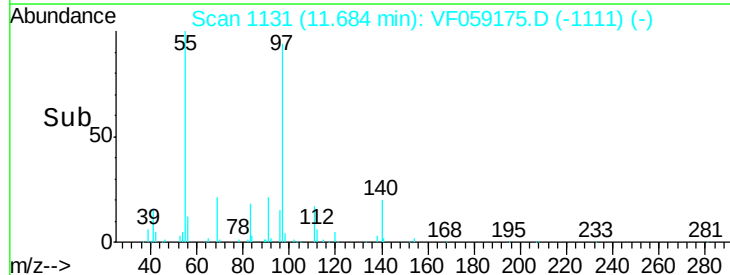
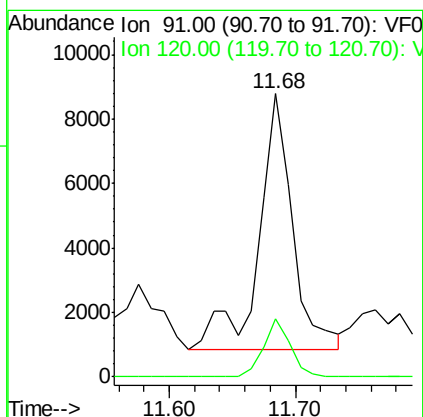
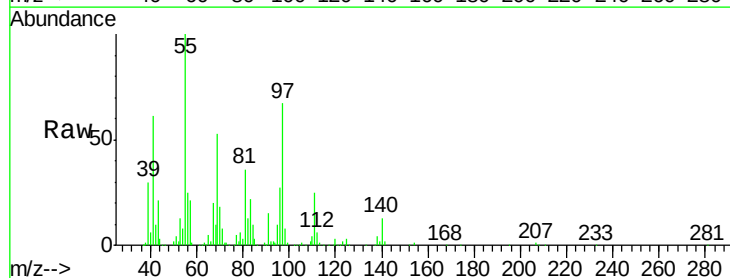
Acq: 18 Jun 2018 15:01

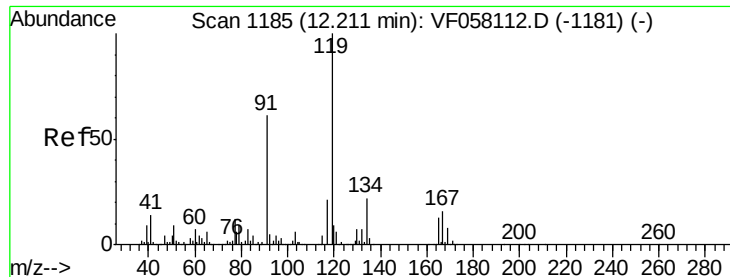
Tgt Ion: 91 Resp: 15084

Ion Ratio Lower Upper

91 100

120 20.6 11.5 34.5





#83

tert-Butylbenzene

Concen: 6.864 ug/l

RT: 12.22 min Scan# 1185

Delta R.T. 0.01 min

Lab File: VF059175.D

Acq: 18 Jun 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

MW286-18-SRI3

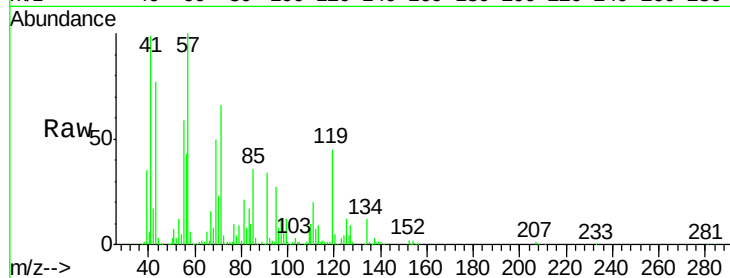
Tgt Ion:119 Resp: 62105

Ion Ratio Lower Upper

119 100

91 75.9 30.4 91.3

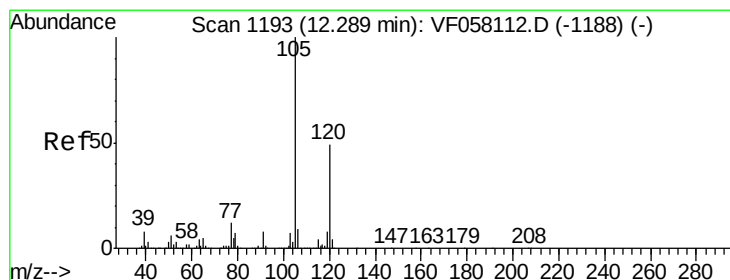
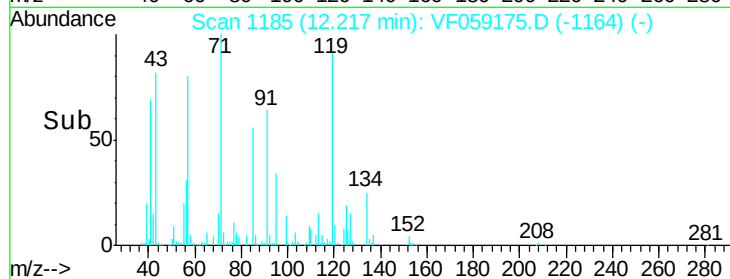
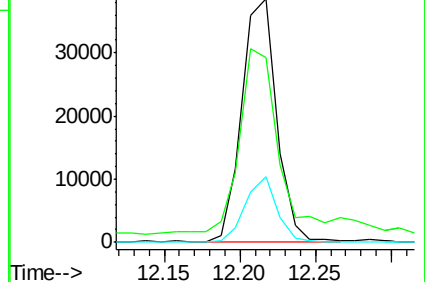
134 27.2 11.2 33.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.871 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.09 min

Lab File: VF059175.D

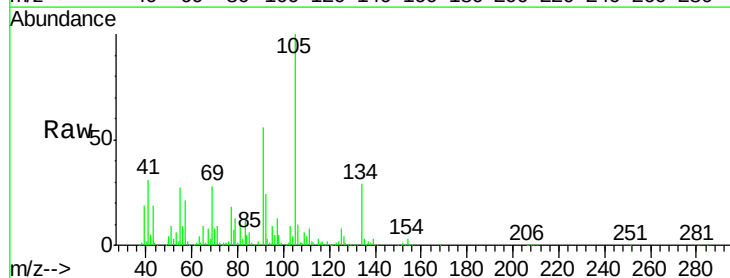
Acq: 18 Jun 2018 15:01

Tgt Ion:105 Resp: 197043

Ion Ratio Lower Upper

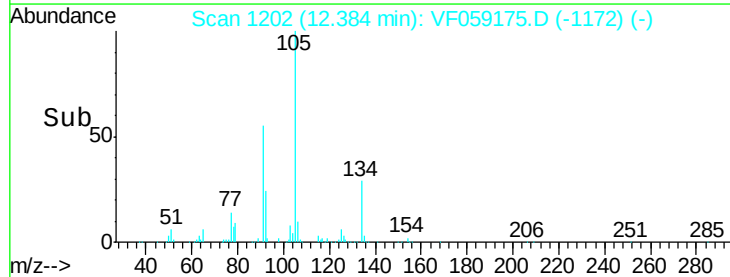
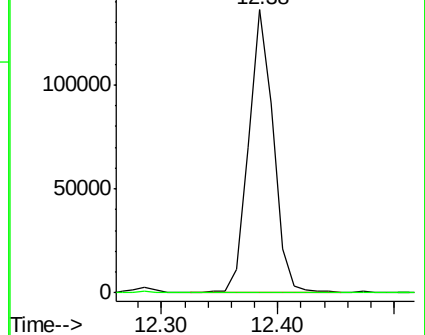
105 100

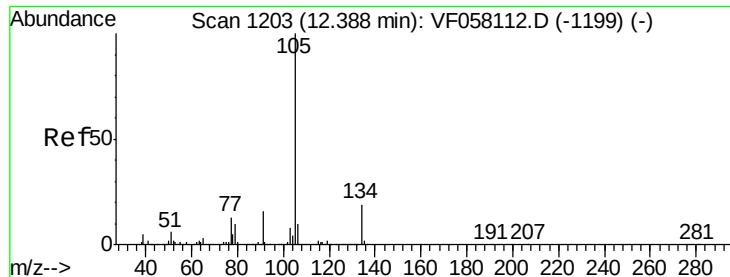
120 0.1 24.7 74.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 16.028 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VF059175.D

Acq: 18 Jun 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

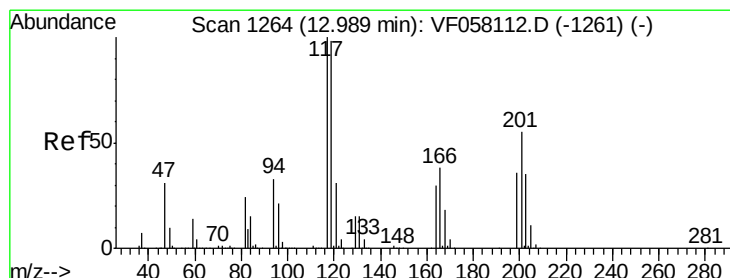
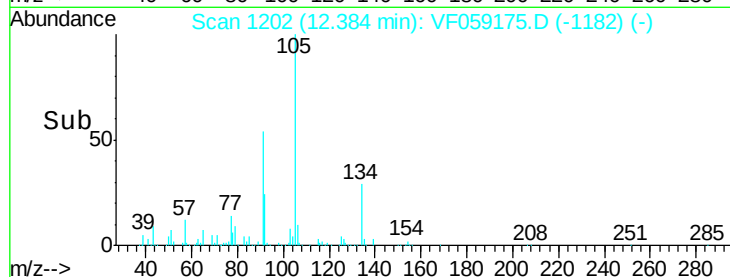
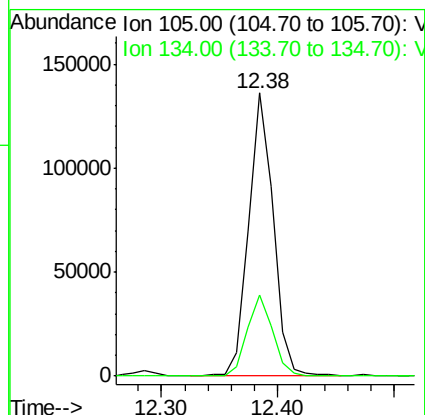
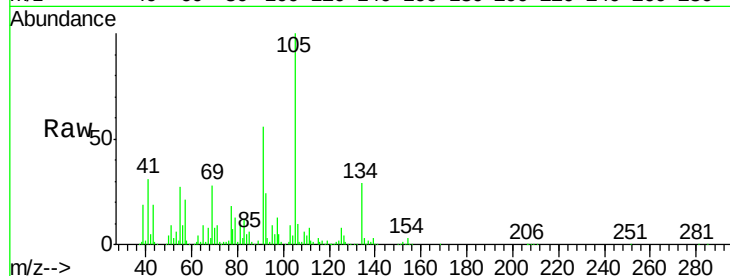
MW286-18-SRI3

Tgt Ion:105 Resp: 197043

Ion Ratio Lower Upper

105 100

134 28.7 9.6 28.6#



#90

Hexachloroethane

Concen: 1.858 ug/l

RT: 13.00 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VF059175.D

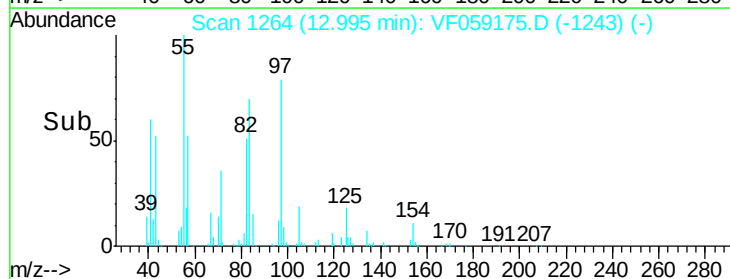
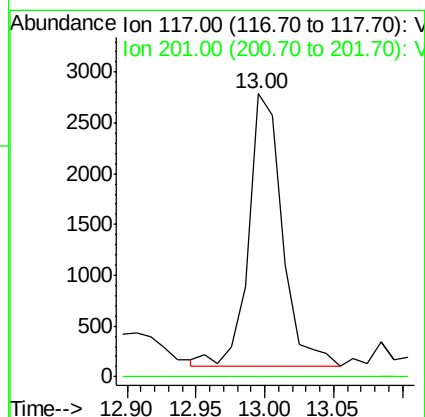
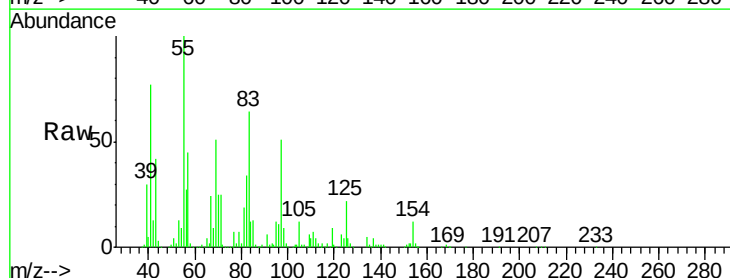
Acq: 18 Jun 2018 15:01

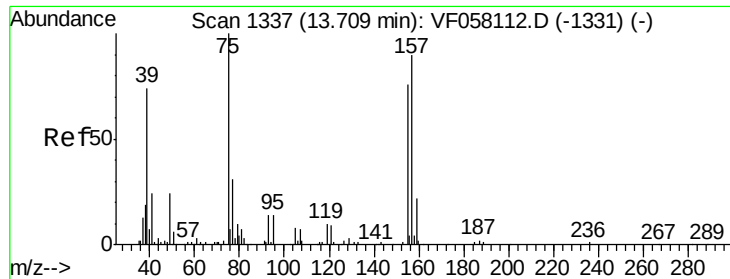
Tgt Ion:117 Resp: 4620

Ion Ratio Lower Upper

117 100

201 0.0 27.5 82.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.877 ug/l

RT: 13.71 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VF059175.D

Acq: 18 Jun 2018 15:01

Instrument :

MSVOA_F

ClientSampleId :

MW286-18-SRI3

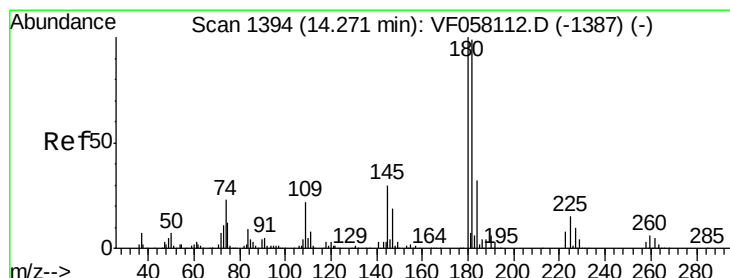
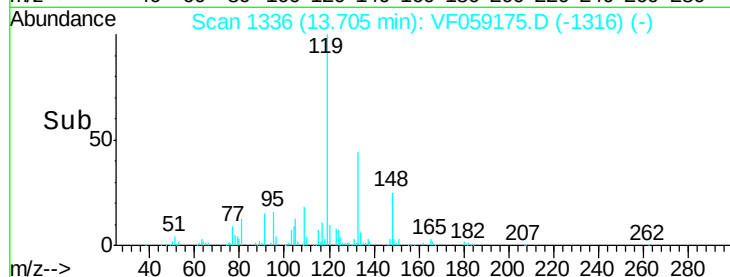
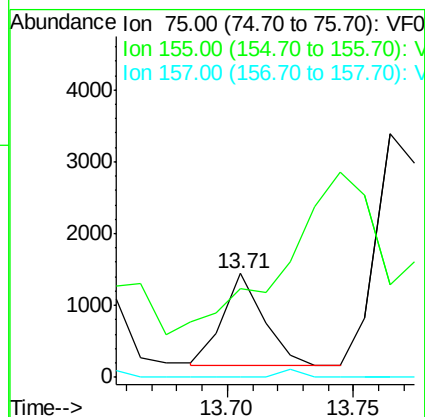
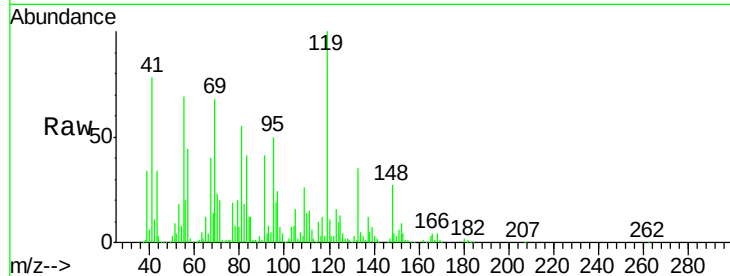
Tgt Ion: 75 Resp: 1473

Ion Ratio Lower Upper

75 100

155 85.9 38.0 114.0

157 0.0 45.1 135.5#



#93

1,2,4-Trichlorobenzene

Concen: 7.600 ug/l

RT: 14.35 min Scan# 1401

Delta R.T. 0.08 min

Lab File: VF059175.D

Acq: 18 Jun 2018 15:01

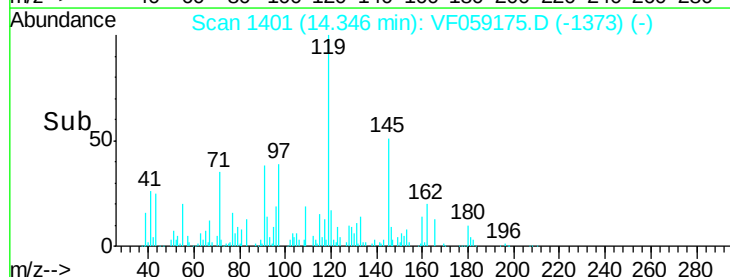
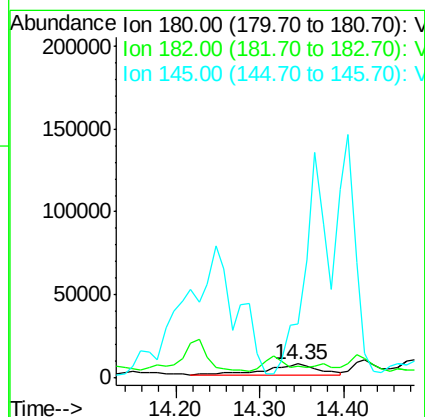
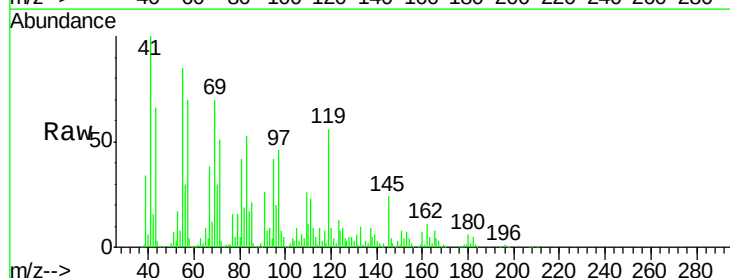
Tgt Ion:180 Resp: 26196

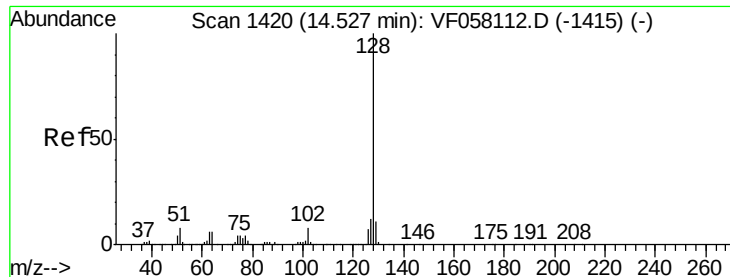
Ion Ratio Lower Upper

180 100

182 80.2 49.3 147.9

145 377.6 14.9 44.9#

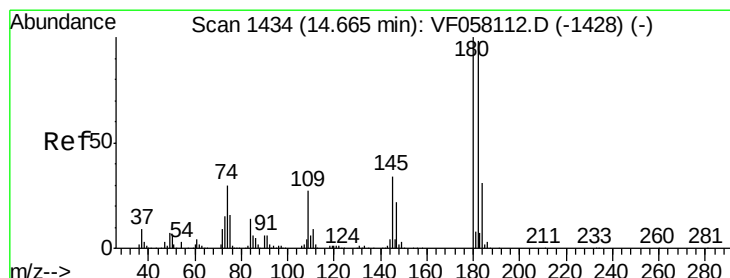
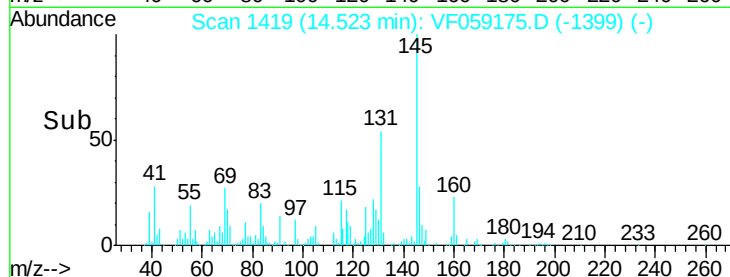
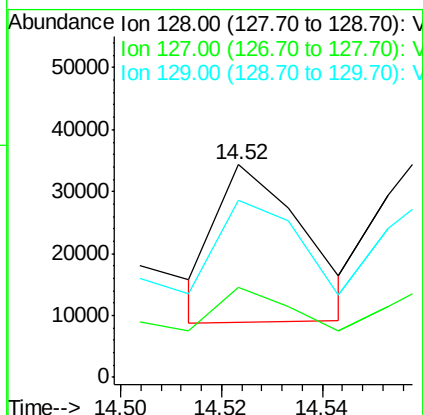
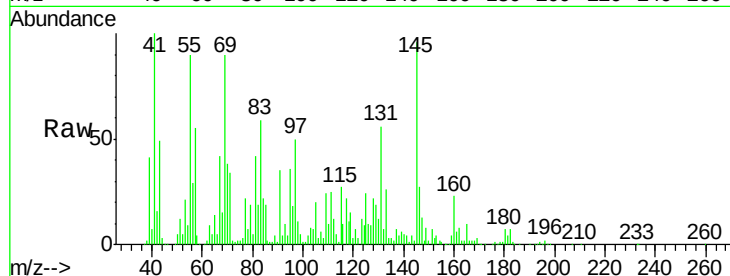




#95
Naphthalene
Concen: 4.108 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. -0.00 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

Instrument :
MSVOA_F
ClientSampleId :
MW286-18-SRI3

Tgt Ion:128 Resp: 30242
Ion Ratio Lower Upper
128 100
127 42.5 9.9 14.9#
129 83.2 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 9.640 ug/l
RT: 14.70 min Scan# 1437
Delta R.T. 0.04 min
Lab File: VF059175.D
Acq: 18 Jun 2018 15:01

Tgt Ion:180 Resp: 30704
Ion Ratio Lower Upper
180 100
182 60.9 48.9 146.6
145 352.1 17.3 51.7#

