

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF042319\
 Data File : VF062263.D
 Acq On : 23 Apr 2019 14:56
 Operator : FY/SY
 Sample : K2202-01
 Misc : 6.59g/5mL/MSVOA_F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SA-06-041819-A

Quant Time: Apr 23 15:19:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 23:52:01 2019
 Response via : Initial Calibration

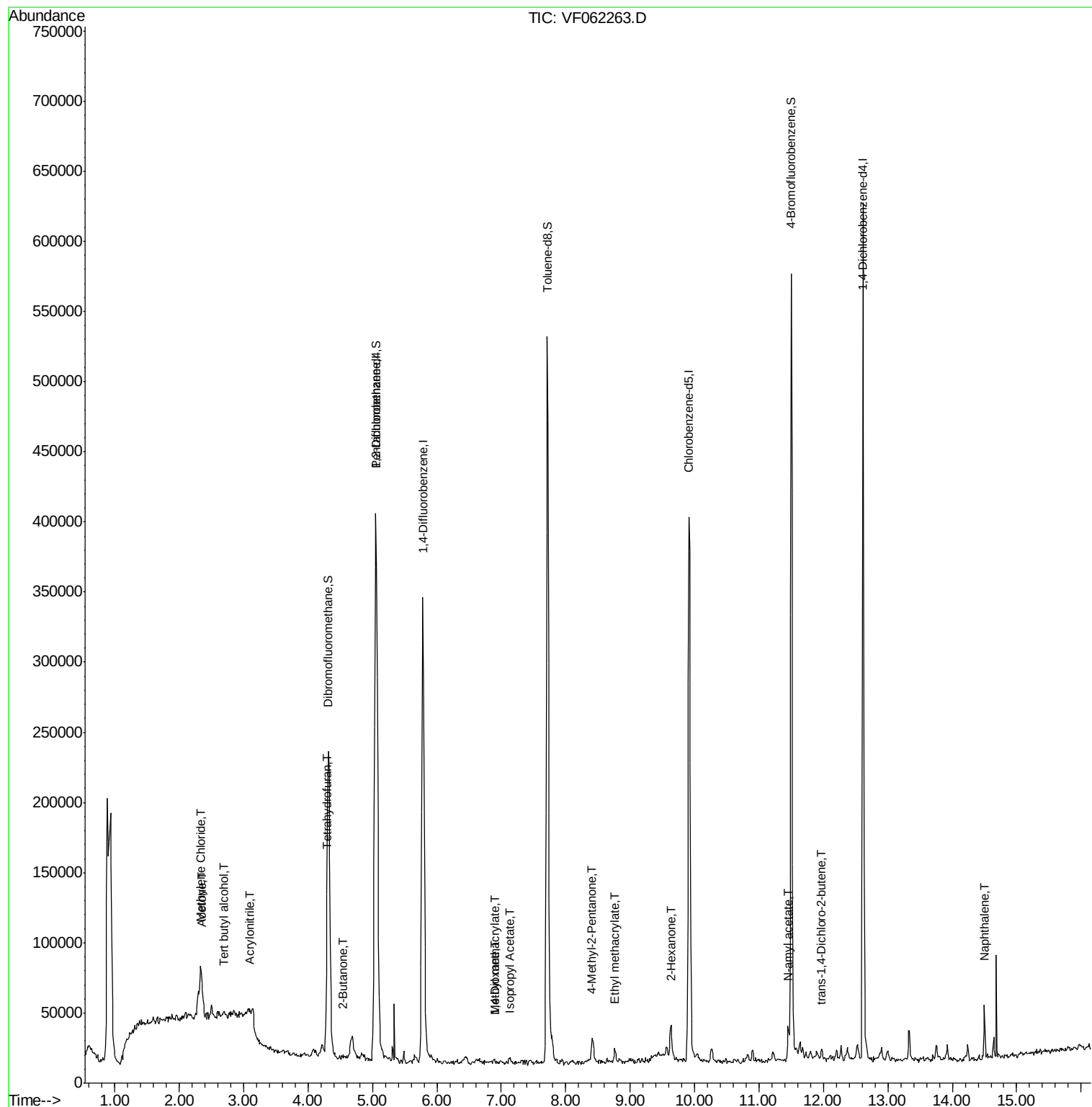
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	312405	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.78	114	402505	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.91	117	312855	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	167333	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.04	65	166471	58.11	ug/l	0.03
Spiked Amount 50.000			Recovery	=	116.22%	
35) Dibromofluoromethane	4.31	113	208372	59.18	ug/l	0.02
Spiked Amount 50.000			Recovery	=	118.36%	
50) Toluene-d8	7.71	98	467454	52.45	ug/l	0.02
Spiked Amount 50.000			Recovery	=	104.90%	
62) 4-Bromofluorobenzene	11.50	95	193972	56.57	ug/l	0.02
Spiked Amount 50.000			Recovery	=	113.14%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.69	59	1477	7.418 ug/l #		42
13) Acrolein	2.09	56	713	Below Cal #		5
15) Acrylonitrile	3.10	53	1893	3.121 ug/l #		76
16) Acetone	2.35	43	7900	11.538 ug/l #		75
18) Methyl Acetate	2.48	43	4091	Below Cal #		59
20) Methylene Chloride	2.33	84	31077	3.406 ug/l		93
25) 2-Butanone	4.55	43	3780	2.761 ug/l		94
29) Tetrahydrofuran	4.28	42	1161	1.873 ug/l #		34
43) Isopropyl Acetate	7.12	43	6830	2.852 ug/l #		78
48) Methyl methacrylate	6.90	41	1745	1.109 ug/l		89
49) 1,4-Dioxane	6.90	88	383	21.217 ug/l #		1
51) 4-Methyl-2-Pentanone	8.40	43	21784	12.229 ug/l		92
56) Ethyl methacrylate	8.76	69	6156	2.897 ug/l #		93
59) 2-Hexanone	9.64	43	23897	21.637 ug/l		99
74) N-amyl acetate	11.45	43	19243	3.604 ug/l #		93
81) trans-1,4-Dichloro-2-buten	11.96	75	950	1.095 ug/l #		49
89) n-Butylbenzene	12.90	91	5845	Below Cal		80
95) Naphthalene	14.50	128	22686	2.811 ug/l		100

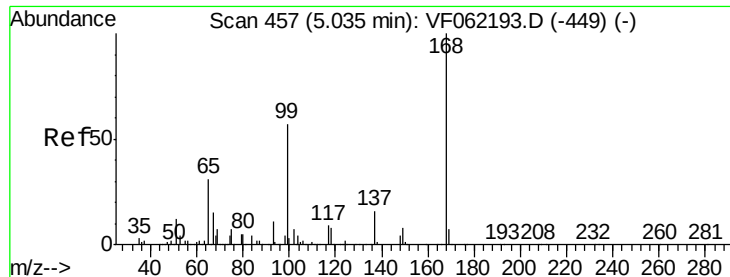
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF042319\
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QLast Update : Fri Apr 19 23:52:01 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.03 min

Lab File: VF062263.D

Acq: 23 Apr 2019 14:56

Instrument :

MSVOA_F

ClientSampleId :

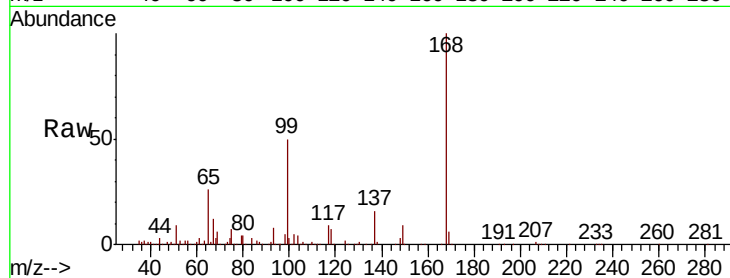
SA-06-041819-A

Tgt Ion:168 Resp: 312405

Ion Ratio Lower Upper

168 100

99 50.3 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

120000

100000

80000

60000

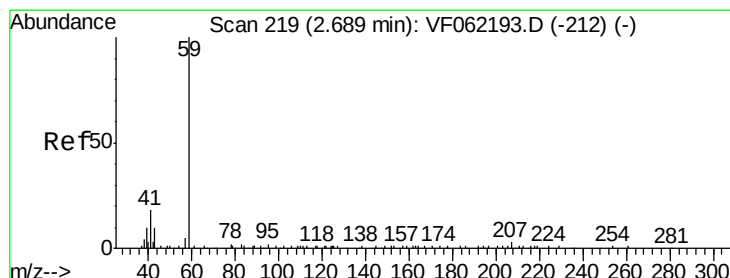
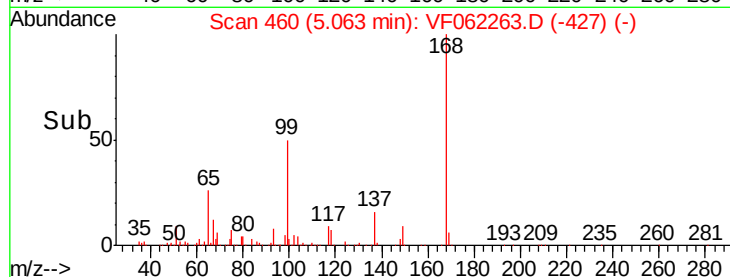
40000

20000

0

Time-->

5.00 5.20



#11

Tert butyl alcohol

Concen: 7.418 ug/l

RT: 2.69 min Scan# 219

Delta R.T. -0.00 min

Lab File: VF062263.D

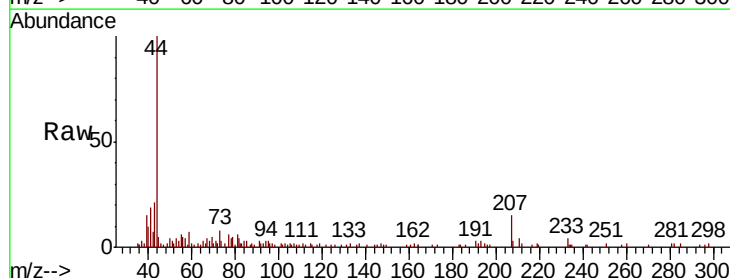
Acq: 23 Apr 2019 14:56

Tgt Ion: 59 Resp: 1477

Ion Ratio Lower Upper

59 100

57 34.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.69

1000

800

600

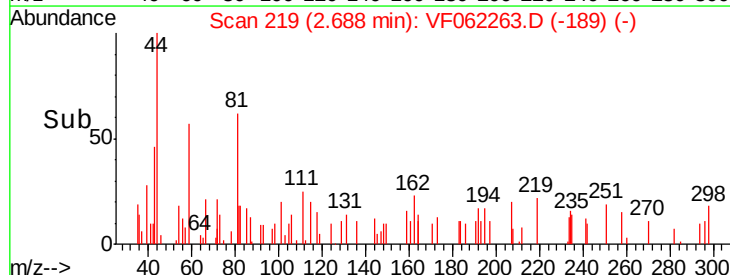
400

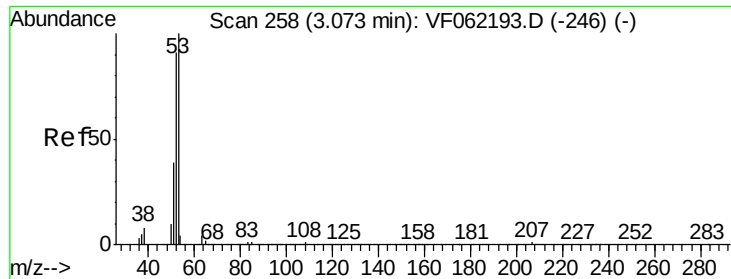
200

0

Time-->

2.60 2.65 2.70 2.75





#15

Acrylonitrile

Concen: 3.121 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.03 min

Lab File: VF062263.D

Acq: 23 Apr 2019 14:56

Instrument :

MSVOA_F

ClientSampleId :

SA-06-041819-A

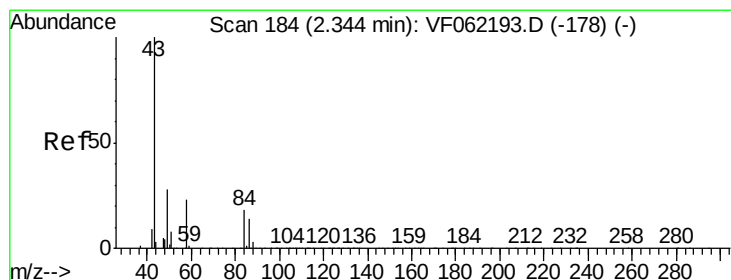
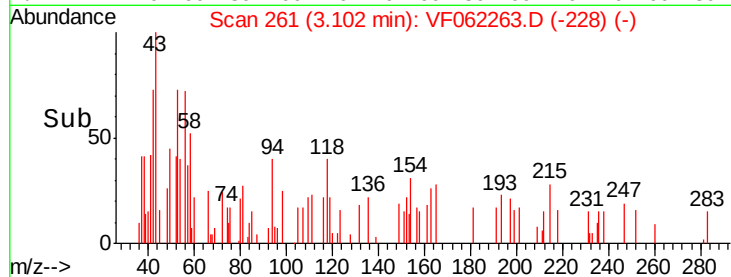
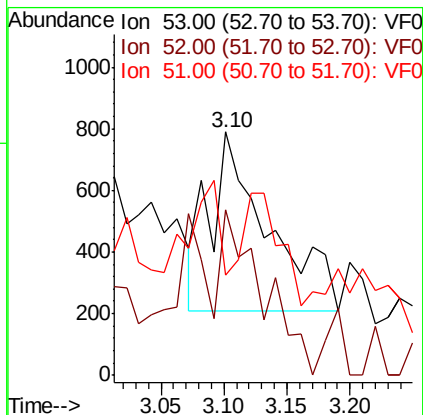
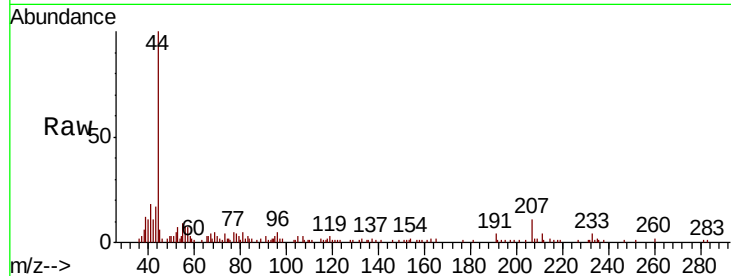
Tgt Ion: 53 Resp: 1893

Ion Ratio Lower Upper

53 100

52 65.2 69.5 104.3#

51 25.1 31.8 47.8#



#16

Acetone

Concen: 11.538 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062263.D

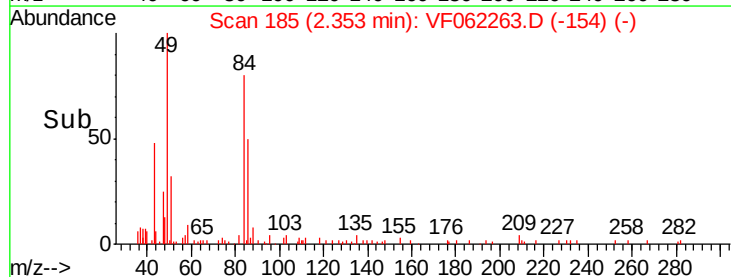
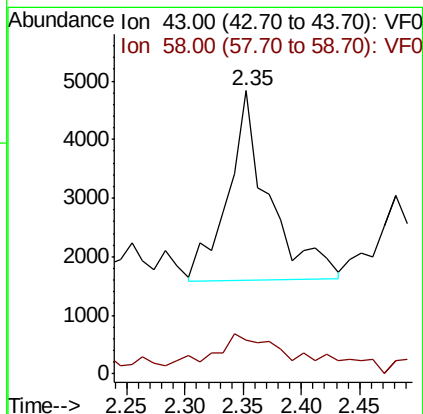
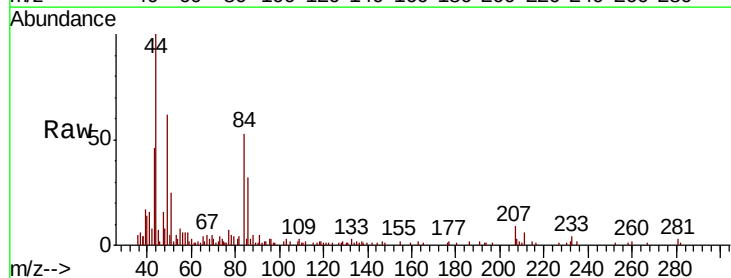
Acq: 23 Apr 2019 14:56

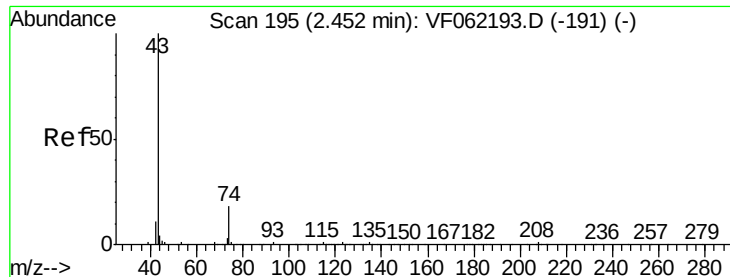
Tgt Ion: 43 Resp: 7900

Ion Ratio Lower Upper

43 100

58 11.2 18.8 28.2#

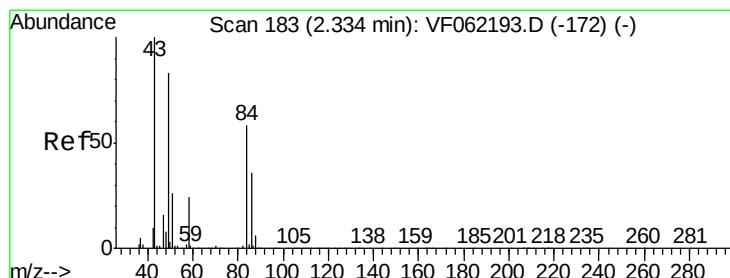
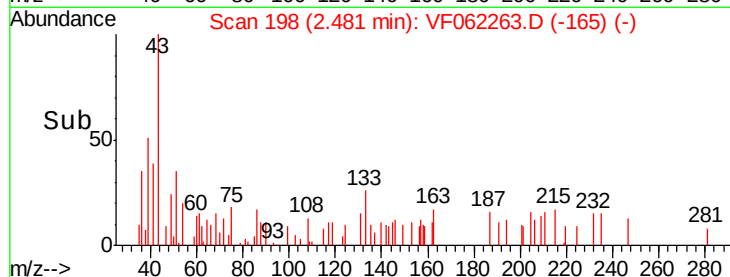
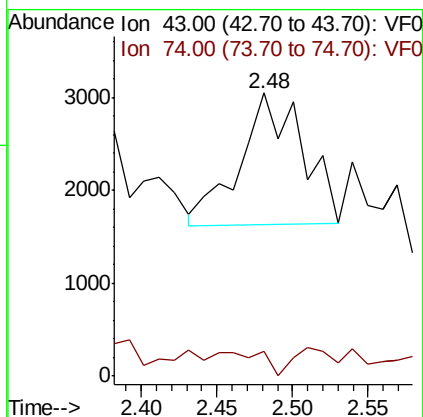
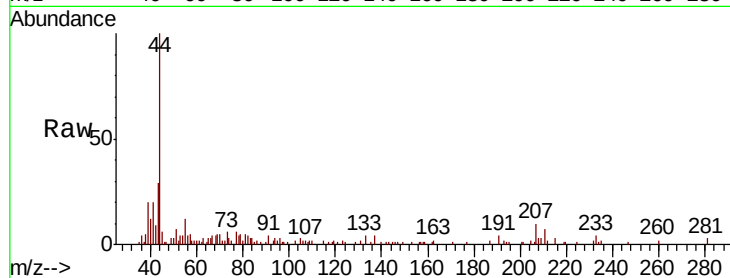




#18
Methyl Acetate
Concen: Below Cal
RT: 2.48 min Scan# 198
Delta R.T. 0.03 min
Lab File: VF062263.D
Acq: 23 Apr 2019 14:56

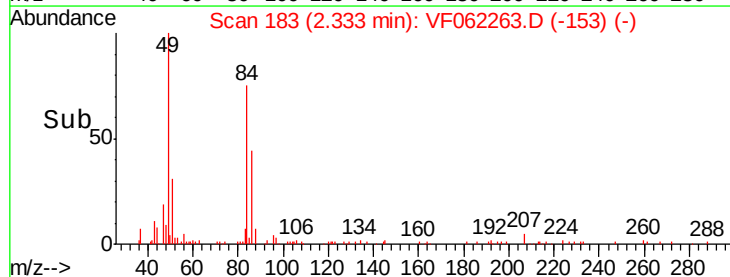
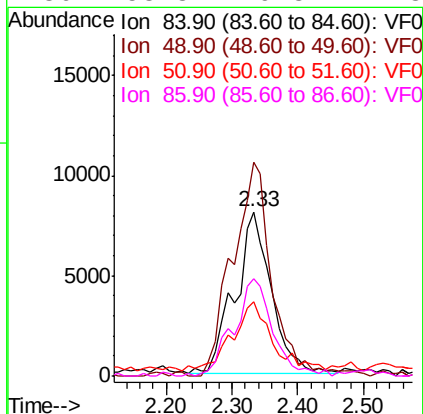
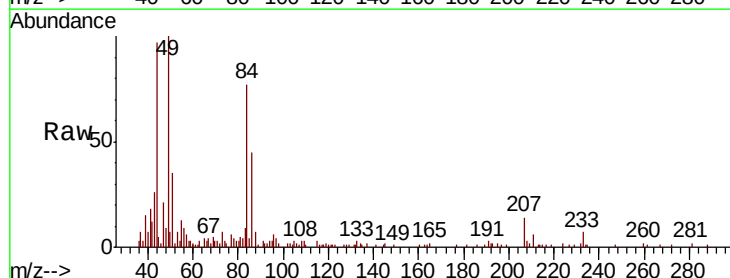
Instrument :
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SA-06-041819-A

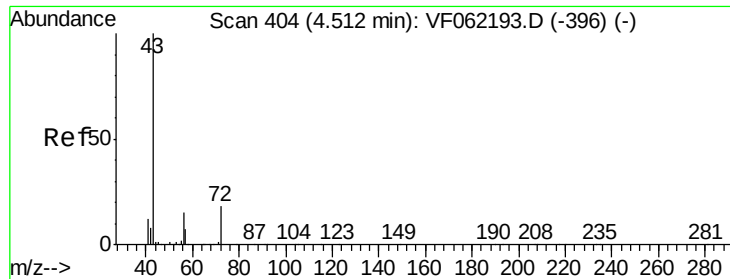
Tgt Ion: 43 Resp: 4091
Ion Ratio Lower Upper
43 100
74 0.0 14.5 21.7#



#20
Methylene Chloride
Concen: 3.406 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF062263.D
Acq: 23 Apr 2019 14:56

Tgt Ion: 84 Resp: 31077
Ion Ratio Lower Upper
84 100
49 132.5 114.0 171.0
51 40.8 37.0 55.4
86 58.8 49.8 74.8





#25

2-Butanone

Concen: 2.761 ug/l

RT: 4.55 min Scan# 408

Delta R.T. 0.04 min

Lab File: VF062263.D

Acq: 23 Apr 2019 14:56

Instrument :

MSVOA_F

ClientSampleId :

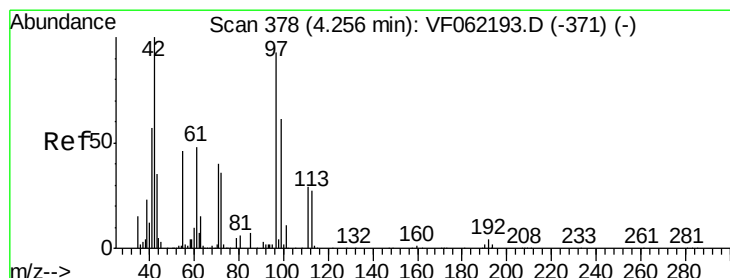
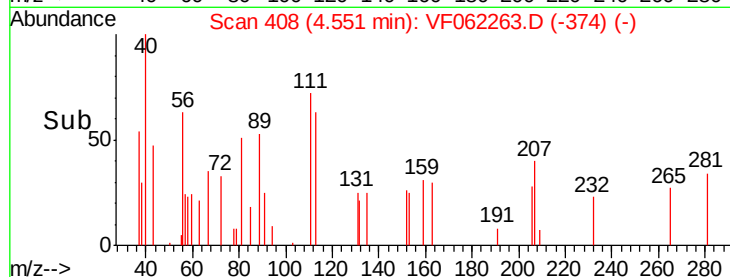
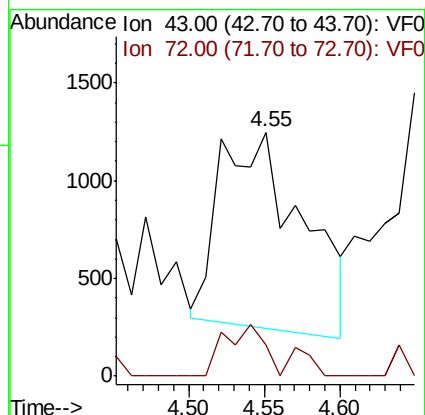
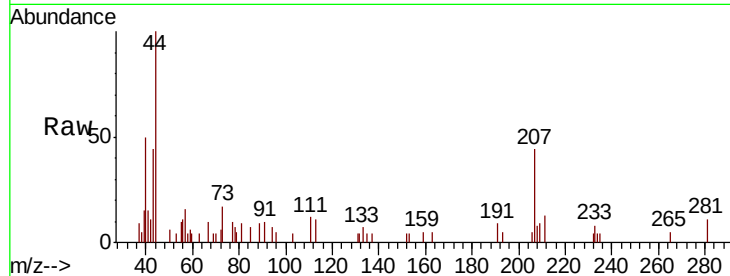
SA-06-041819-A

Tgt Ion: 43 Resp: 3780

Ion Ratio Lower Upper

43 100

72 17.5 16.1 24.1



#29

Tetrahydrofuran

Concen: 1.873 ug/l

RT: 4.28 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF062263.D

Acq: 23 Apr 2019 14:56

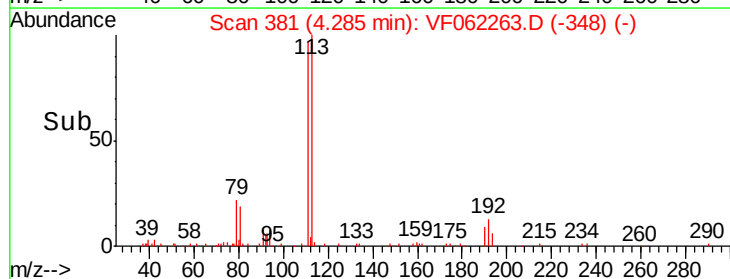
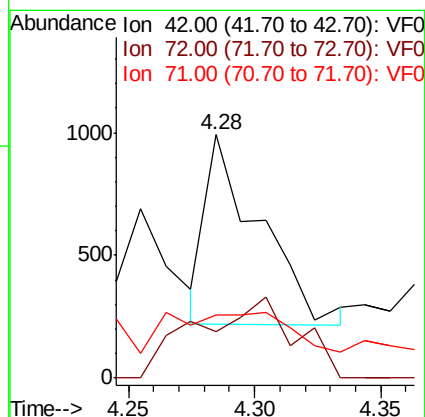
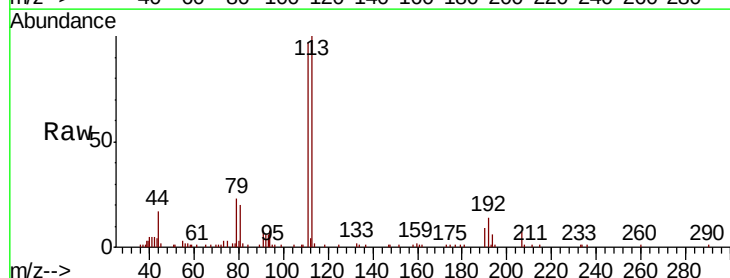
Tgt Ion: 42 Resp: 1161

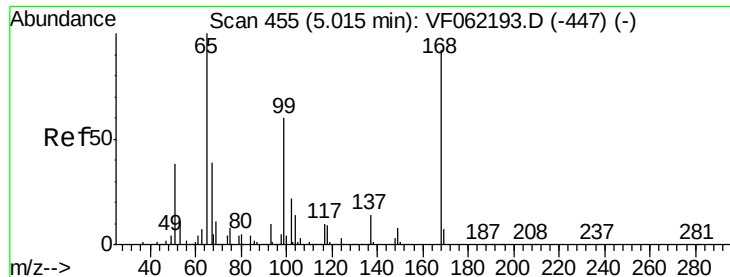
Ion Ratio Lower Upper

42 100

72 77.1 28.6 43.0#

71 0.0 29.2 43.8#

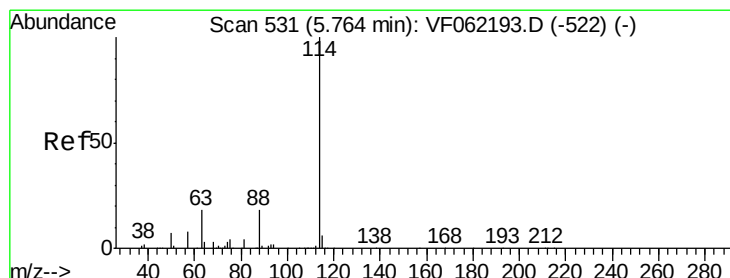
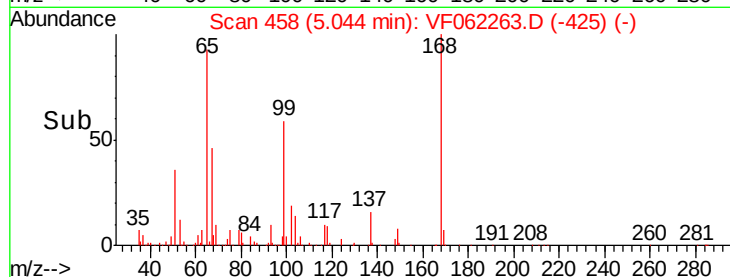
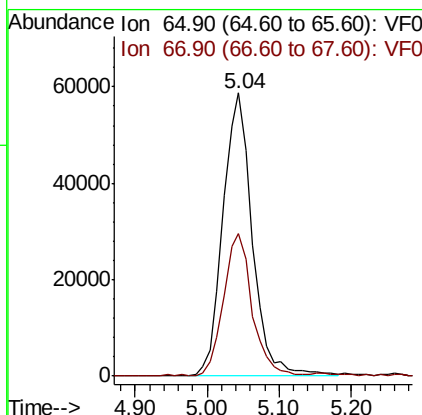
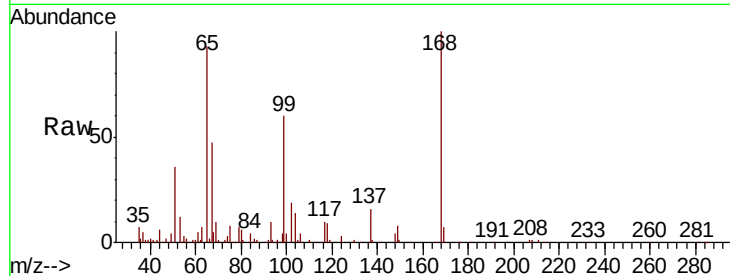




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 5.04 min Scan# 458
 Delta R.T. 0.03 min
 Lab File: VF062263.D
 Acq: 23 Apr 2019 14:56

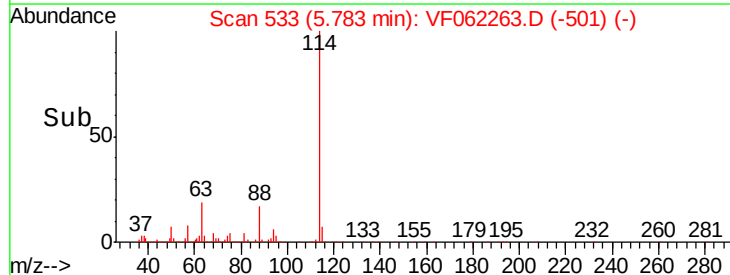
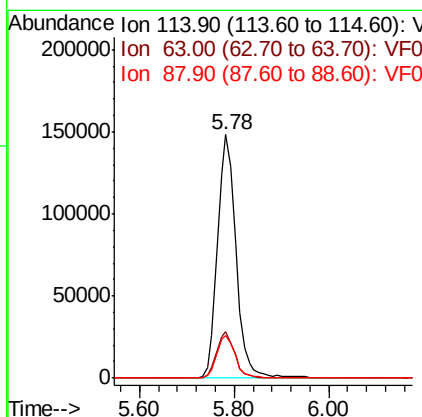
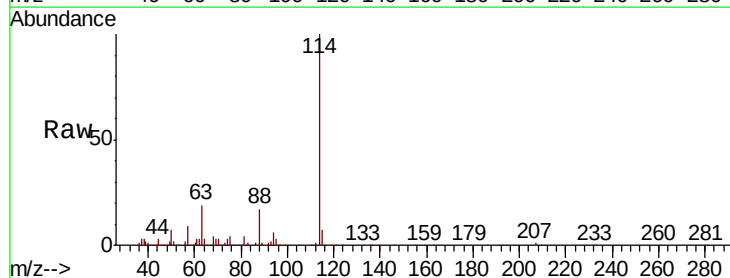
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 SA-06-041819-A

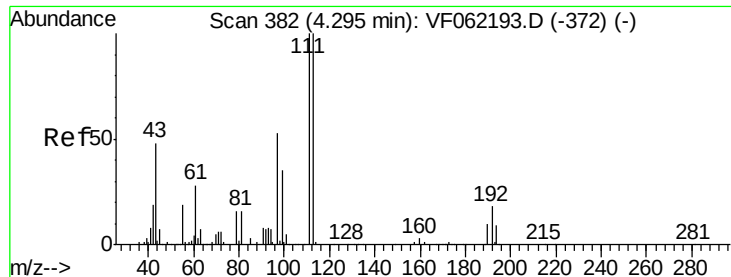
Tgt Ion: 65 Resp: 166471
 Ion Ratio Lower Upper
 65 100
 67 48.0 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.02 min
 Lab File: VF062263.D
 Acq: 23 Apr 2019 14:56

Tgt Ion: 114 Resp: 402505
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 36.6
 88 17.4 0.0 35.8

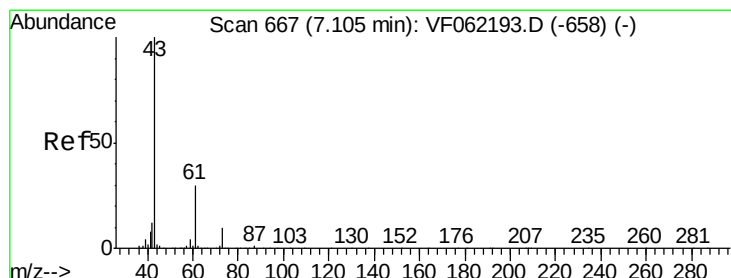
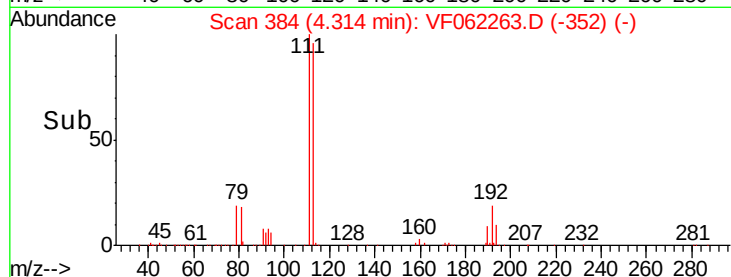
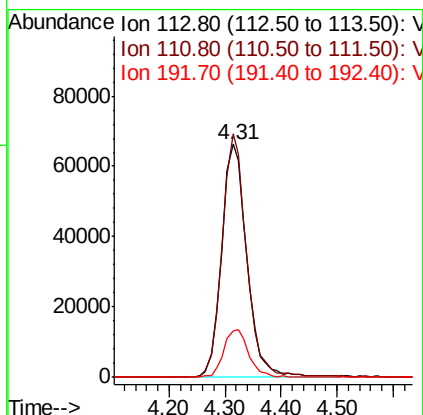
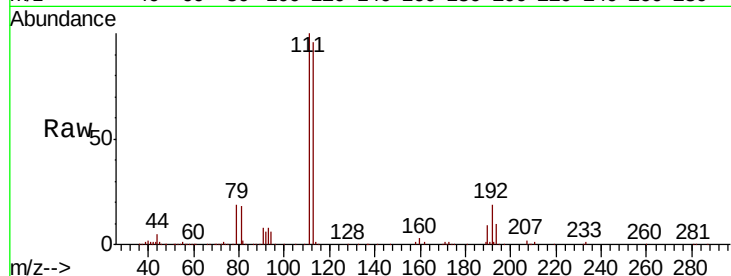




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 4.31 min Scan# 384
 Delta R.T. 0.02 min
 Lab File: VF062263.D
 Acq: 23 Apr 2019 14:56

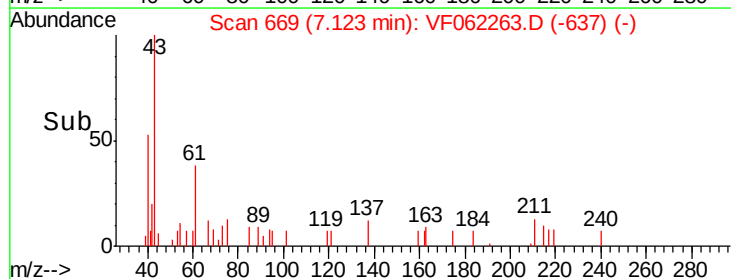
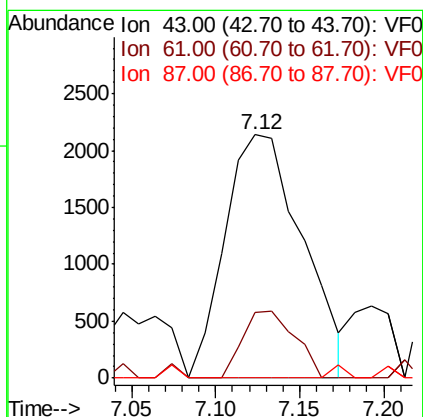
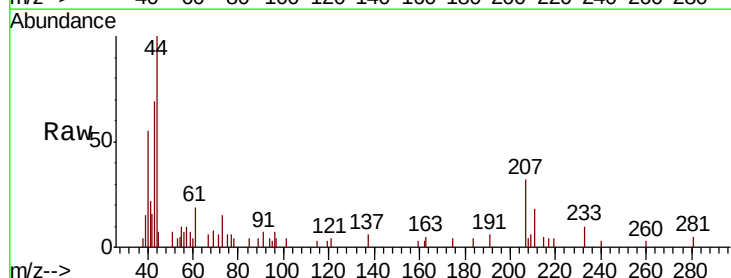
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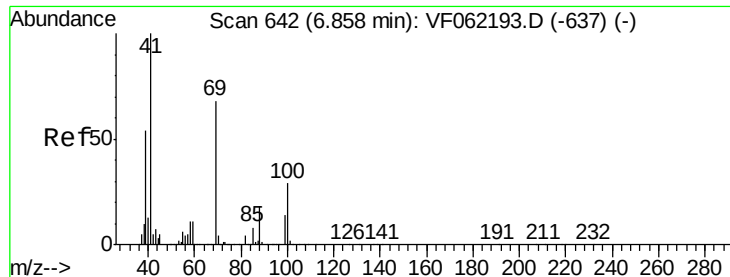
Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.1	121.7
192	20.3	14.7	22.1



#43
 Isopropyl Acetate
 Concen: 2.852 ug/l
 RT: 7.12 min Scan# 669
 Delta R.T. 0.02 min
 Lab File: VF062263.D
 Acq: 23 Apr 2019 14:56

Tgt Ion	Ratio	Lower	Upper
43	100		
61	18.5	24.4	36.6#
87	0.0	0.4	0.6#

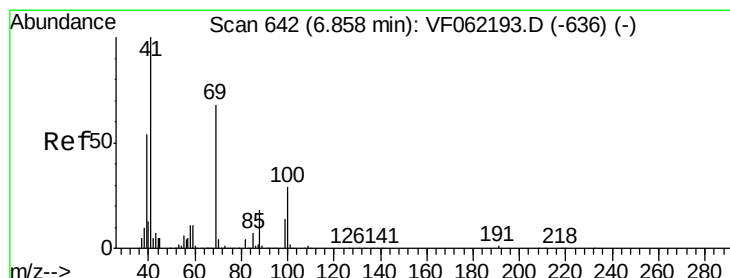
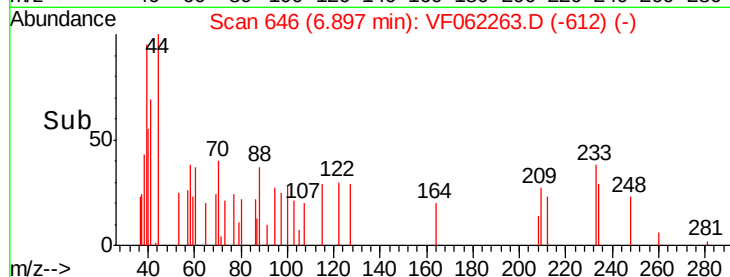
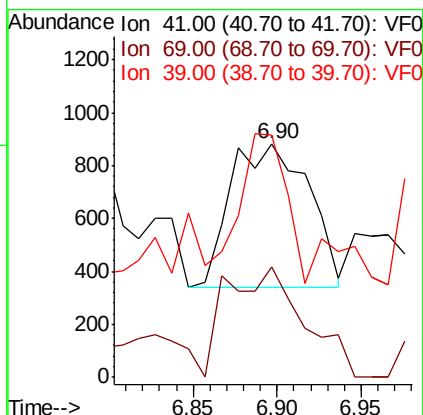
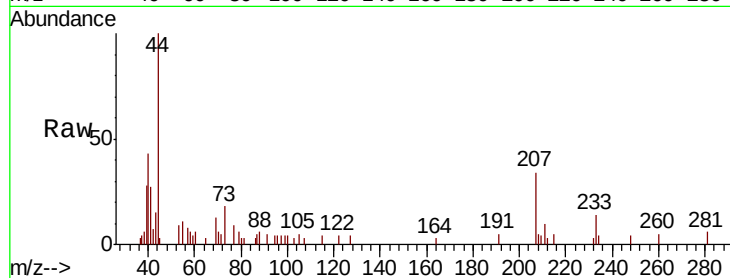




#48
Methyl methacrylate
Concen: 1.109 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.04 min
Lab File: VF062263.D
Acq: 23 Apr 2019 14:56

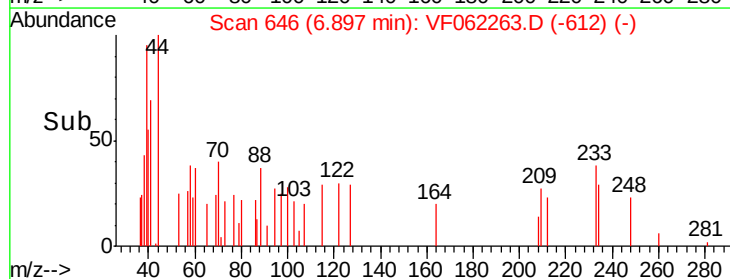
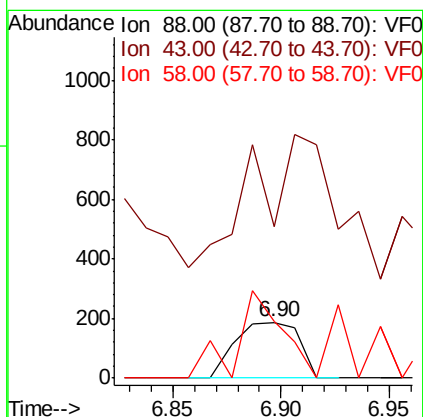
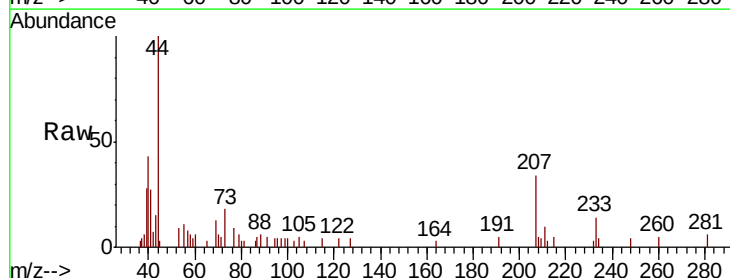
Instrument :
MSVOA_F
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SA-06-041819-A

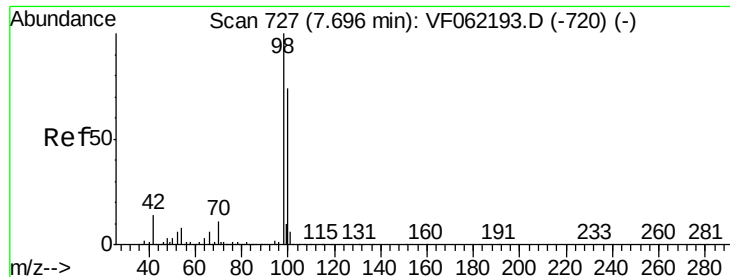
Tgt Ion: 41 Resp: 1745
Ion Ratio Lower Upper
41 100
69 75.9 54.9 82.3
39 64.0 43.6 65.4



#49
1,4-Dioxane
Concen: 21.217 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.04 min
Lab File: VF062263.D
Acq: 23 Apr 2019 14:56

Tgt Ion: 88 Resp: 383
Ion Ratio Lower Upper
88 100
43 342.0 36.9 55.3#
58 112.5 56.8 85.2#

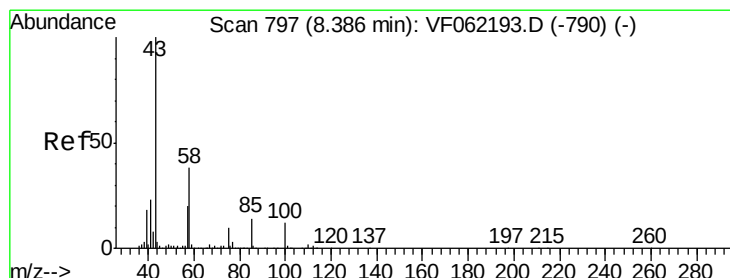
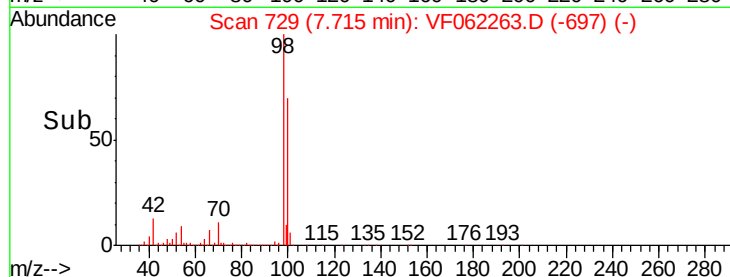
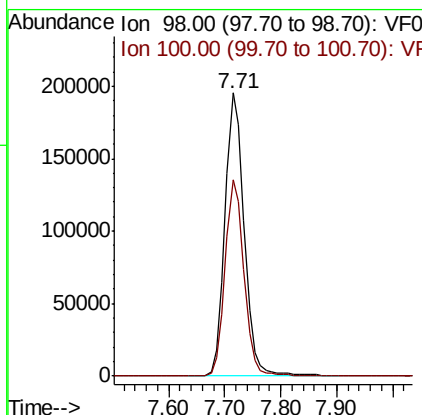
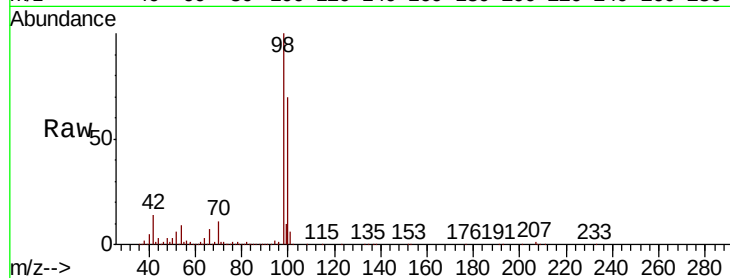




#50
Toluene-d8
Concen: 21.217 ug/l
RT: 7.71 min Scan# 729
Delta R.T. 0.02 min
Lab File: VF062263.D
Acq: 23 Apr 2019 14:56

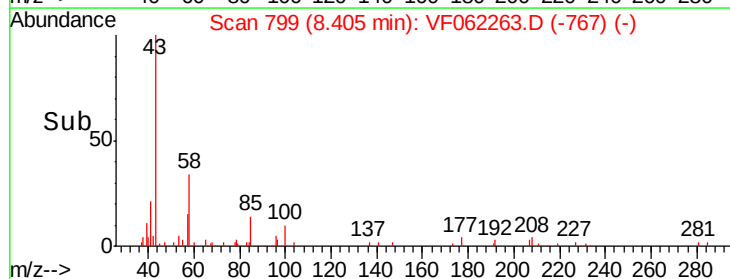
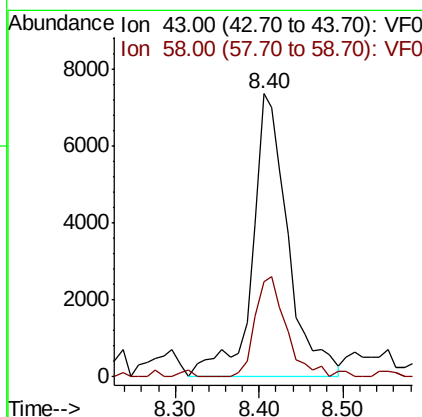
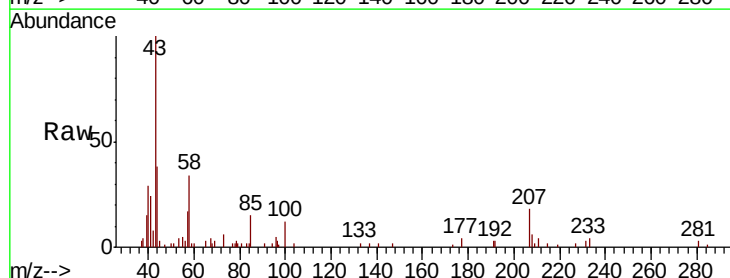
Instrument :
MSVOA_F
ClientSampleId :
SA-06-041819-A

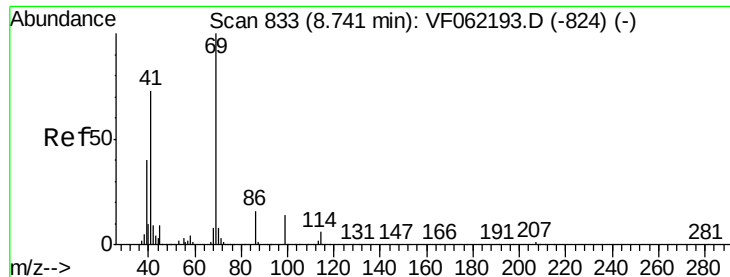
Tgt Ion: 98 Resp: 467454
Ion Ratio Lower Upper
98 100
100 68.5 56.2 84.2



#51
4-Methyl-2-Pentanone
Concen: 12.229 ug/l
RT: 8.40 min Scan# 799
Delta R.T. 0.02 min
Lab File: VF062263.D
Acq: 23 Apr 2019 14:56

Tgt Ion: 43 Resp: 21784
Ion Ratio Lower Upper
43 100
58 31.8 29.3 43.9





#56

Ethyl methacrylate

Concen: 2.897 ug/l

RT: 8.76 min Scan# 835

Delta R.T. 0.02 min

Lab File: VF062263.D

Acq: 23 Apr 2019 14:56

Instrument :

MSVOA_F

ClientSampleId :

SA-06-041819-A

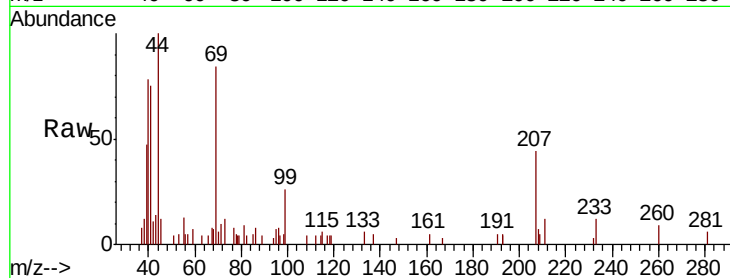
Tgt Ion: 69 Resp: 6156

Ion Ratio Lower Upper

69 100

41 75.1 61.5 92.3

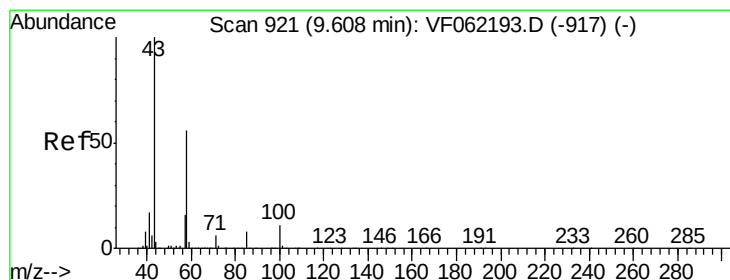
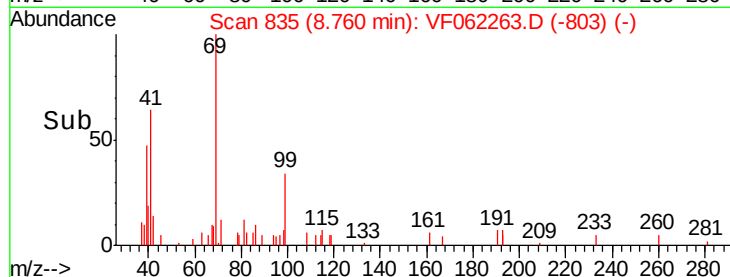
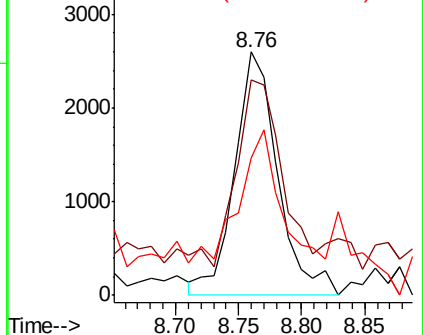
39 52.0 33.3 49.9#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#59

2-Hexanone

Concen: 21.637 ug/l

RT: 9.64 min Scan# 924

Delta R.T. 0.03 min

Lab File: VF062263.D

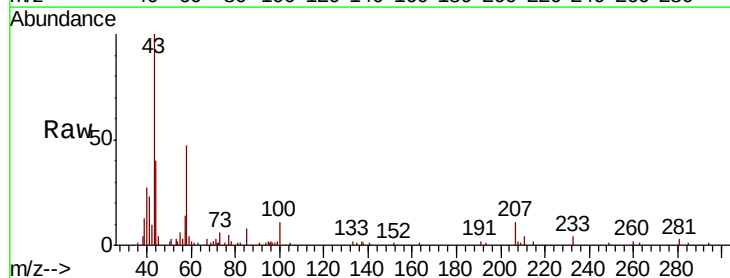
Acq: 23 Apr 2019 14:56

Tgt Ion: 43 Resp: 23897

Ion Ratio Lower Upper

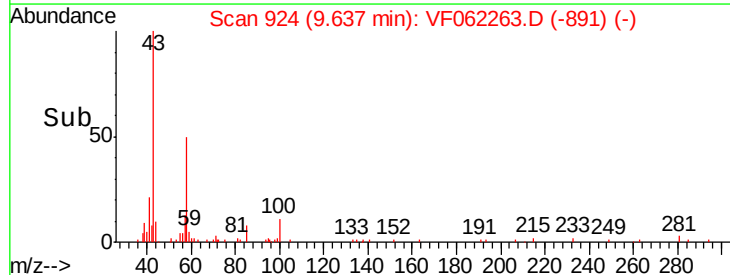
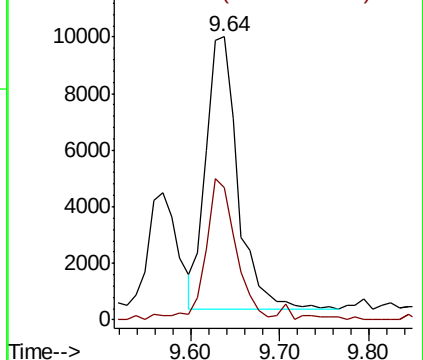
43 100

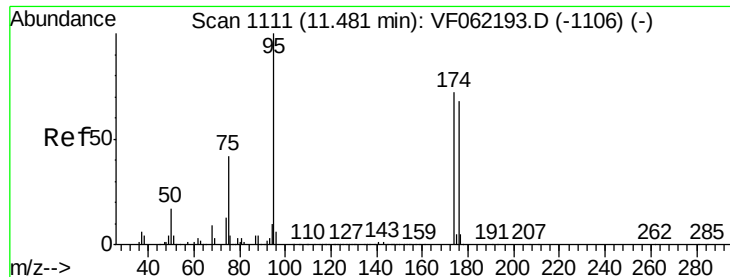
58 49.7 24.6 74.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062263.D

Acq: 23 Apr 2019 14:56

Instrument :

MSVOA_F

ClientSampleId :

SA-06-041819-A

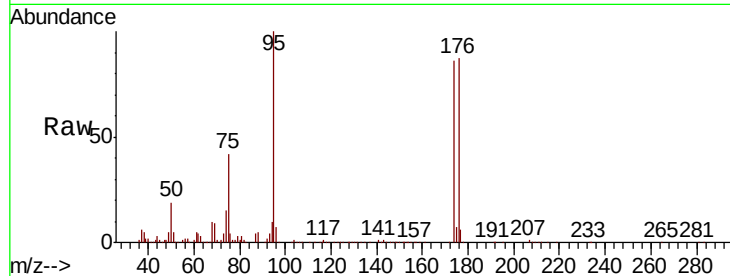
Tgt Ion: 95 Resp: 193972

Ion Ratio Lower Upper

95 100

174 90.7 0.0 159.4

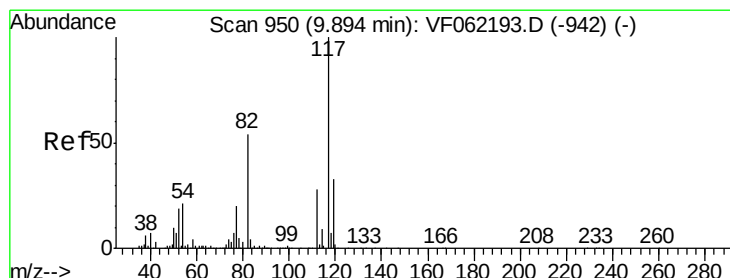
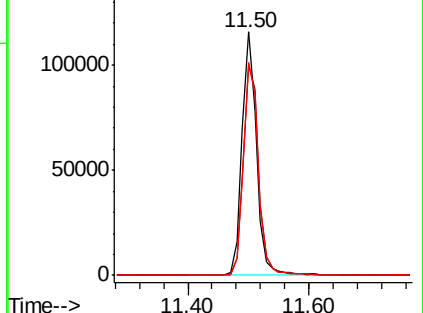
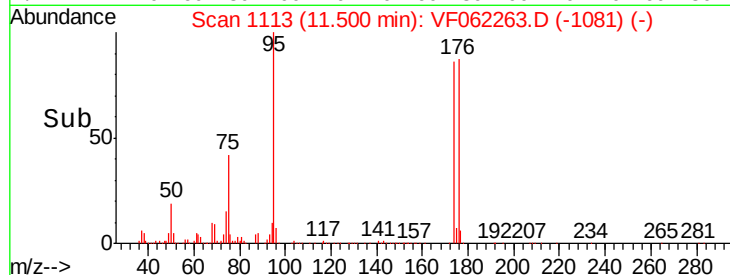
176 89.4 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062263.D

Acq: 23 Apr 2019 14:56

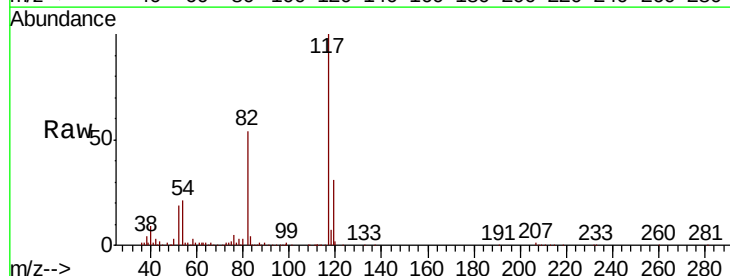
Tgt Ion: 117 Resp: 312855

Ion Ratio Lower Upper

117 100

82 53.6 43.2 64.8

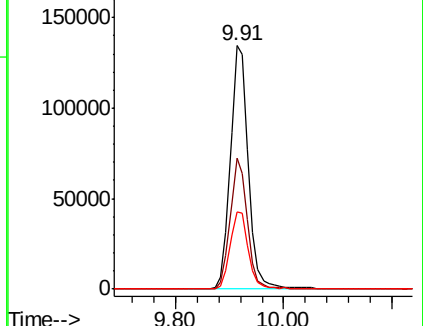
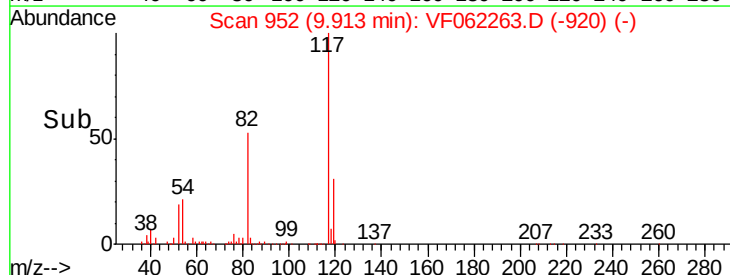
119 31.4 26.2 39.4

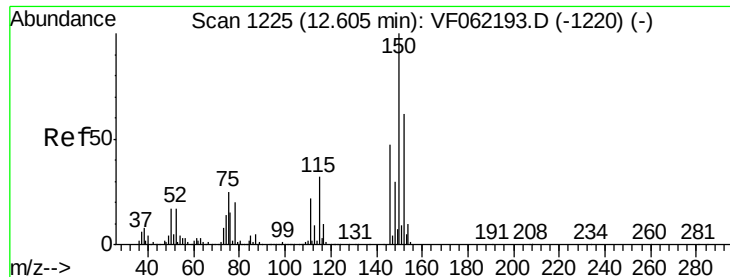


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V



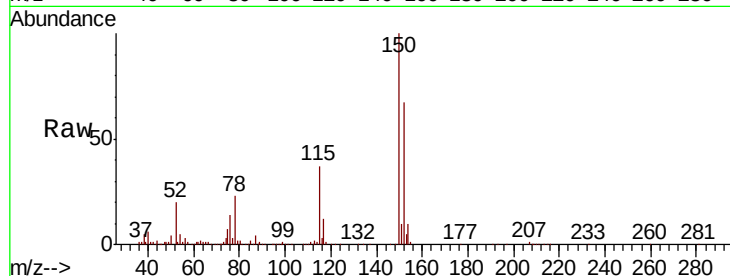


#72

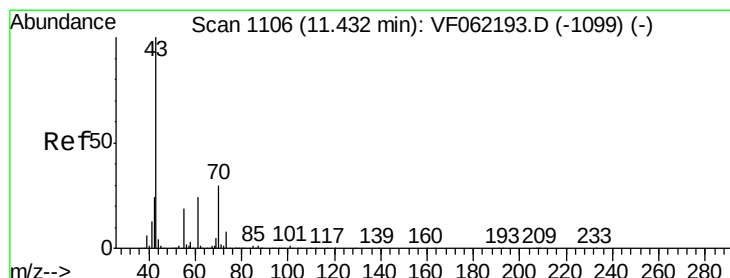
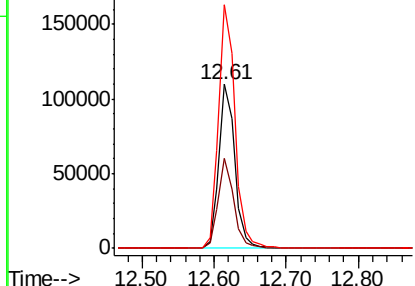
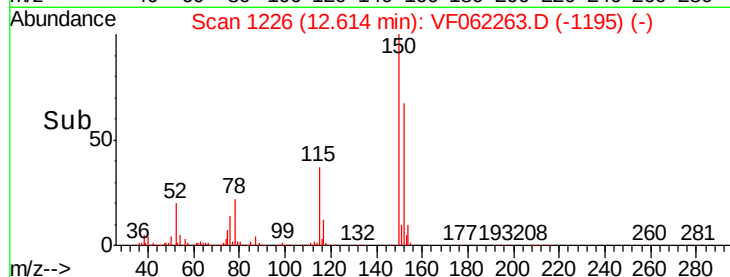
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062263.D
Acq: 23 Apr 2019 14:56

Instrument :
MSVOA_F
ClientSampleId :
SA-06-041819-A

Tgt Ion: 152 Resp: 167333
Ion Ratio Lower Upper
152 100
115 53.4 27.8 83.3
150 152.2 0.0 341.8



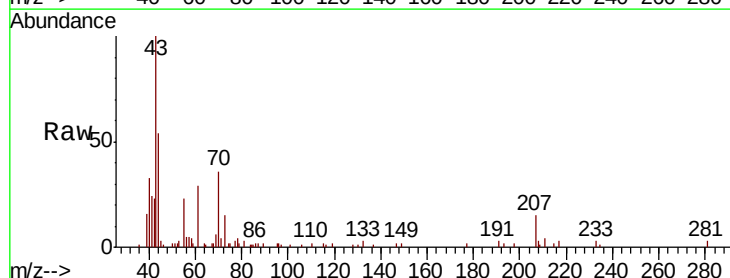
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



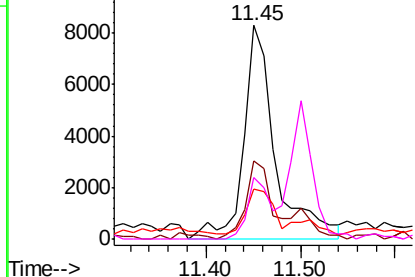
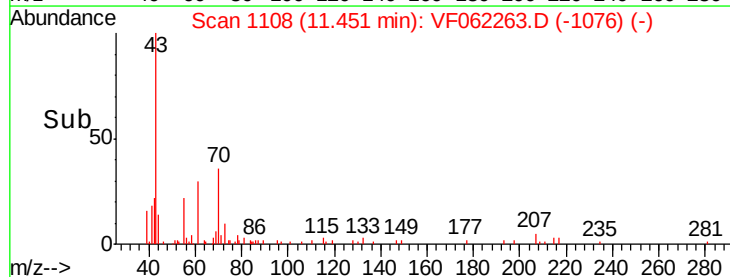
#74

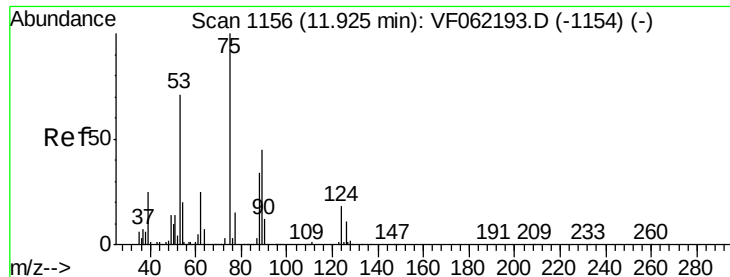
N-amil acetate
Concen: 3.604 ug/l
RT: 11.45 min Scan# 1108
Delta R.T. 0.02 min
Lab File: VF062263.D
Acq: 23 Apr 2019 14:56

Tgt Ion: 43 Resp: 19243
Ion Ratio Lower Upper
43 100
70 30.6 27.0 40.4
55 20.1 15.7 23.5
61 19.8 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 70.00 (69.70 to 70.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 61.00 (60.70 to 61.70): VF0





#81

trans-1,4-Dichloro-2-butene

Concen: 1.095 ug/l

RT: 11.96 min Scan# 1160

Delta R.T. 0.04 min

Lab File: VF062263.D

Acq: 23 Apr 2019 14:56

Instrument :

MSVOA_F

ClientSampled :

SA-06-041819-A

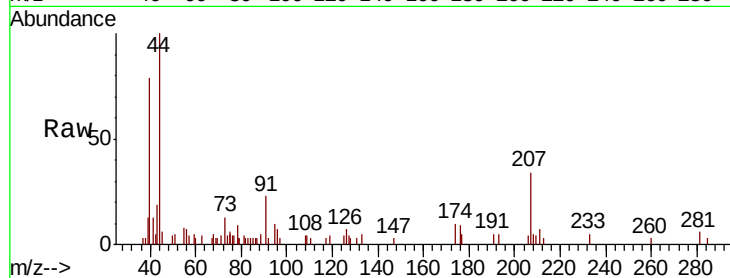
Tgt Ion: 75 Resp: 950

Ion Ratio Lower Upper

75 100

53 23.2 50.2 75.4#

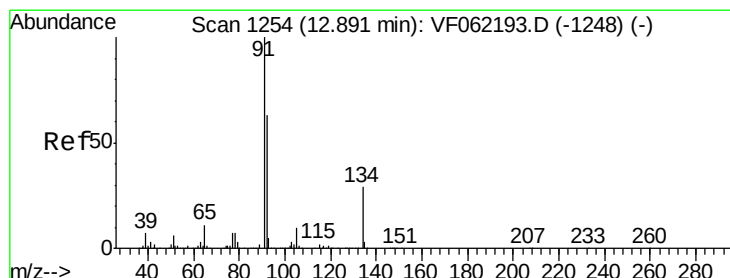
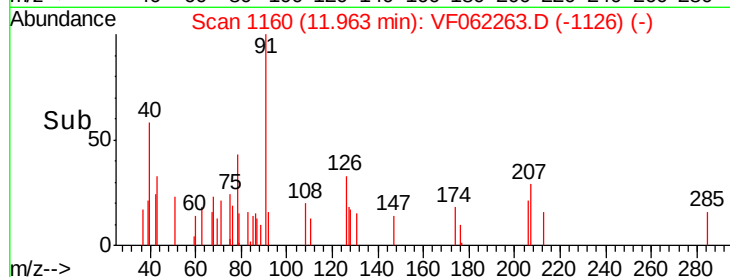
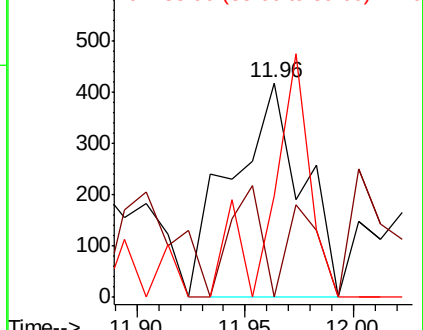
89 61.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#89

n-Butylbenzene

Concen: Below Cal

RT: 12.90 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VF062263.D

Acq: 23 Apr 2019 14:56

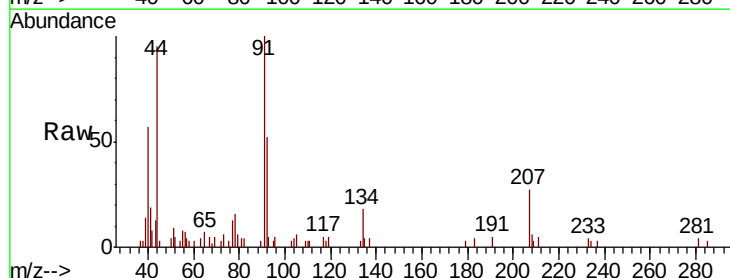
Tgt Ion: 91 Resp: 5845

Ion Ratio Lower Upper

91 100

92 44.5 31.2 93.6

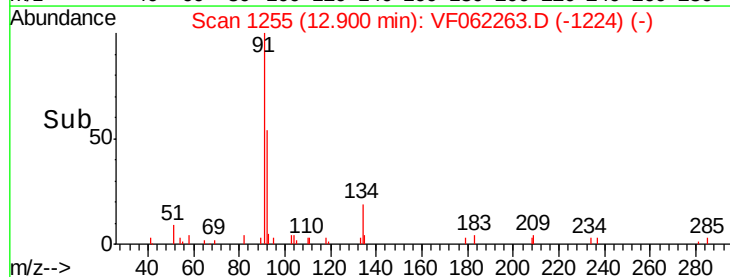
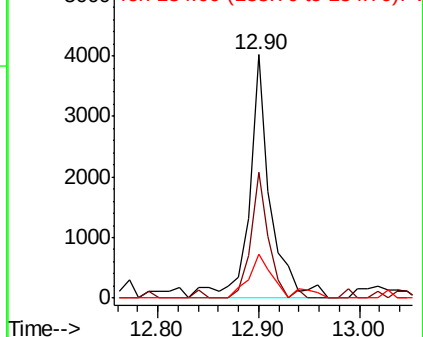
134 19.5 13.1 39.1

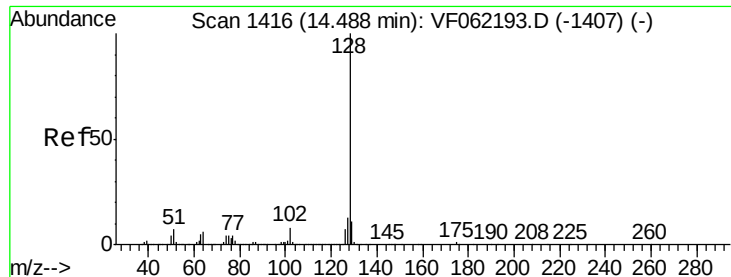


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 2.811 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. 0.01 min

Lab File: VF062263.D

Acq: 23 Apr 2019 14:56

Instrument :

MSVOA_F

ClientSampleId :

SA-06-041819-A

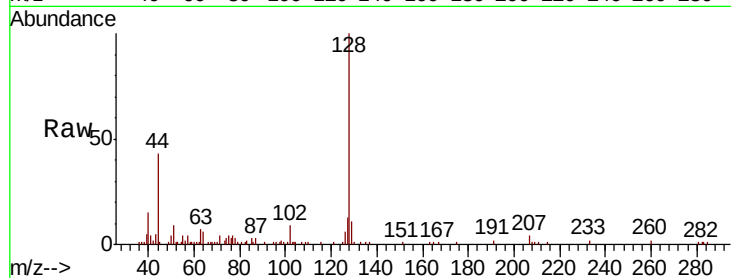
Tgt Ion:128 Resp: 22686

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

129 11.5 9.2 13.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

