

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122316\
 Data File : BF091919.D
 Acq On : 23 Dec 2016 12:58
 Operator : UM/SJ
 Sample : H6156-24RE
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-201612RE

Quant Time: Dec 23 13:54:48 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 21 16:17:51 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	233686	20.00	ng	-0.01
21) Naphthalene-d8	8.04	136	507312	20.00	ng	0.00
38) Acenaphthene-d10	9.78	164	427259	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	649114	20.00	ng	-0.01
75) Chrysene-d12	13.88	240	508566	20.00	ng	-0.02
86) Perylene-d12	15.29	264	410329	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	914512	65.34	ng	0.05
7) Phenol-d6	6.45	99	680356	39.82	ng	0.05
23) Nitrobenzene-d5	7.31	82	1676568	183.77	ng	-0.01
41) 2,4,6-Tribromophenol	10.58	330	514570	145.53	ng	0.00
44) 2-Fluorobiphenyl	9.10	172	2227467	110.72	ng	-0.01
78) Terphenyl-d14	12.84	244	1647091	78.55	ng	-0.01

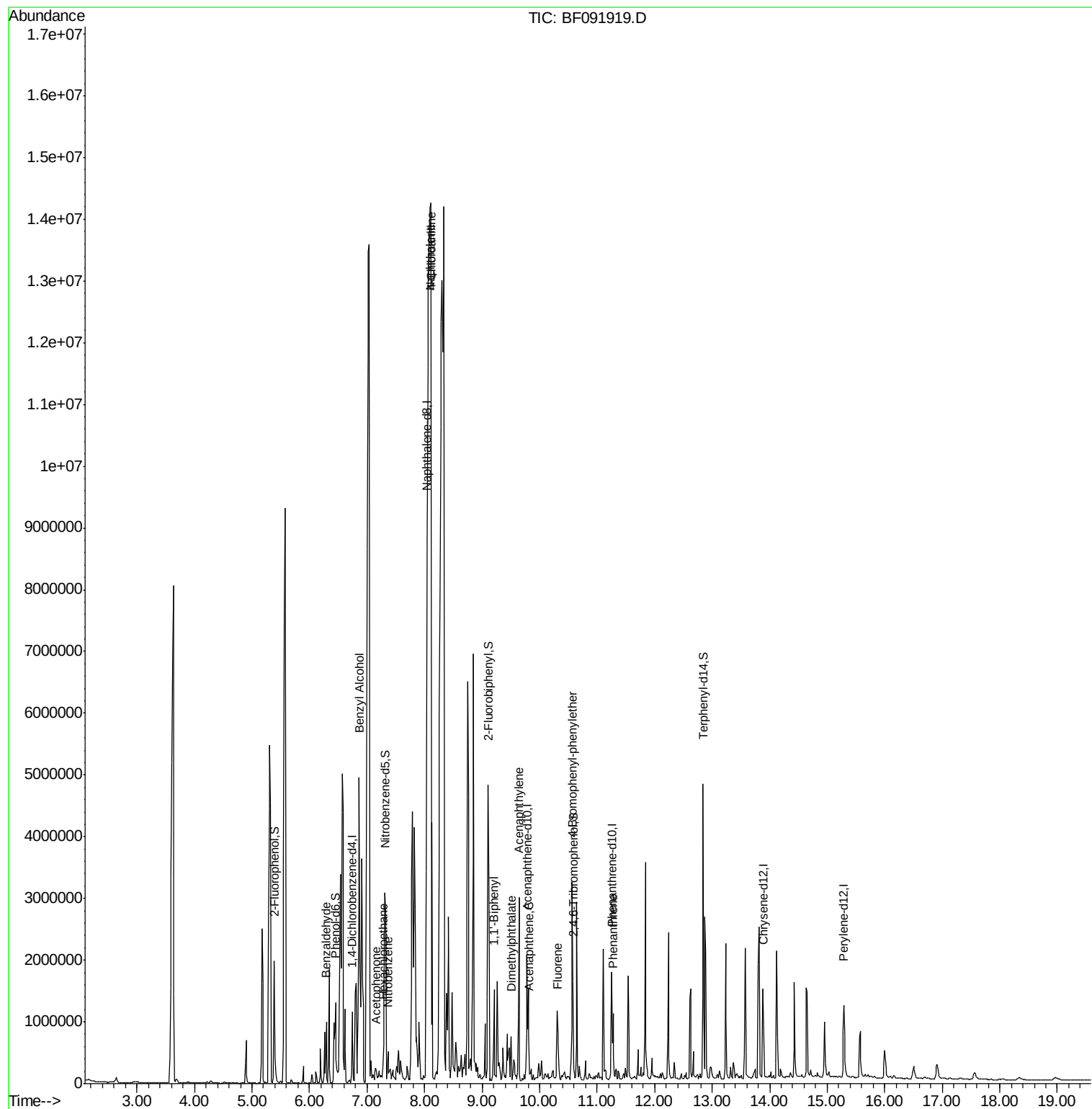
Target Compounds						Qvalue
9) Benzaldehyde	6.29	77	104018	8.15	ng	# 1
15) Benzyl Alcohol	6.86	79	375643	28.29	ng	# 58
18) Hexachloroethane	7.29	117	80202	12.51	ng	# 1
22) Acetophenone	7.15	105	93774	7.49	ng	# 91
24) Nitrobenzene	7.37	77	22238	2.29	ng	# 14
31) Naphthalene	8.10	128	26046437	1121.80	ng	# 92
33) 4-Chloroaniline	8.11	127	4327206	413.32	ng	# 34
37) 2-Methylnaphthalene	8.75	142	3001230	Below	Cal	98
45) 1,1'-Biphenyl	9.21	154	523000	17.88	ng	97
48) Acenaphthylene	9.64	152	1234308	34.64	ng	98
49) Dimethylphthalate	9.50	163	125320	4.59	ng	100
51) Acenaphthene	9.81	154	201901	8.36	ng	97
57) Fluorene	10.32	166	228432	9.62	ng	98
66) 4-Bromophenyl-phenylether	10.57	248	29770	4.41	ng	# 1
70) Phenanthrene	11.28	178	427652	12.15	ng	99
73) Di-n-butylphthalate	11.83	149	8221	Below	Cal	# 92
74) Fluoranthene	12.47	202	5761	Below	Cal	83
76) Benzidine	12.55	184	887	Below	Cal	# 1

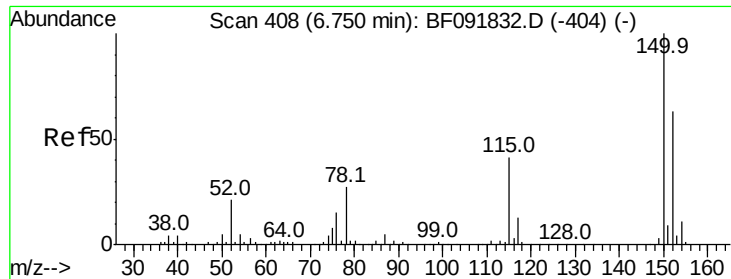
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 407

Delta R.T. -0.01 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Instrument :

BNA_F

ClientSampleId :

WC-201612RE

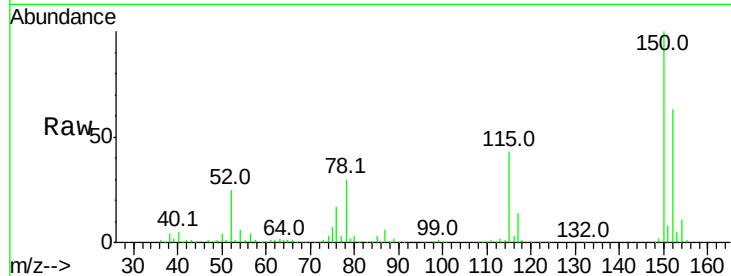
Tot Ion:152 Resp: 233686

Ion Ratio Lower Upper

152 100

150 157.6 124.9 187.3

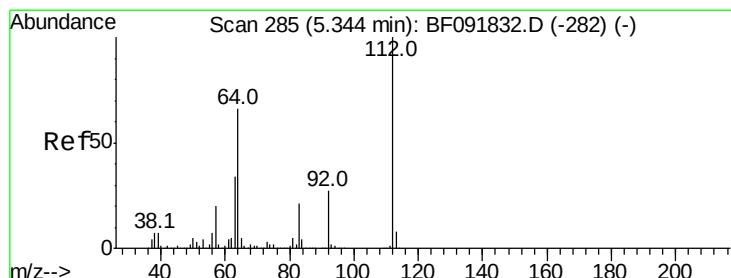
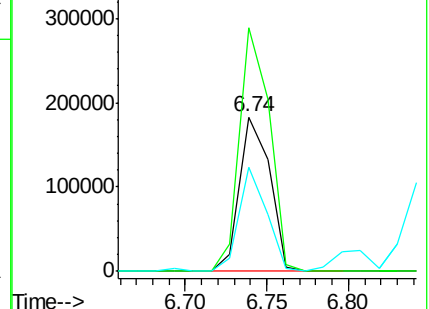
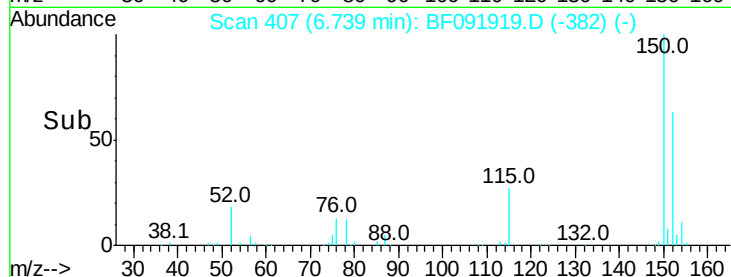
115 67.7 46.0 69.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 65.34 ng

RT: 5.39 min Scan# 289

Delta R.T. 0.05 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

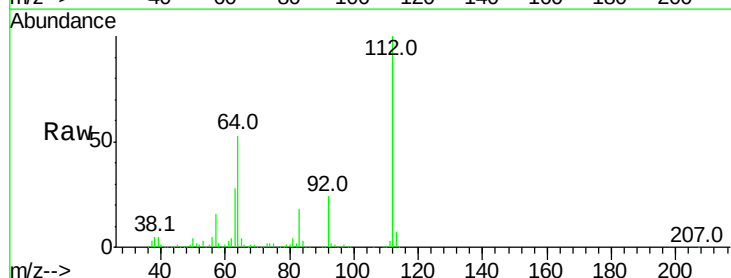
Tgt Ion:112 Resp: 914512

Ion Ratio Lower Upper

112 100

64 53.1 46.1 69.1

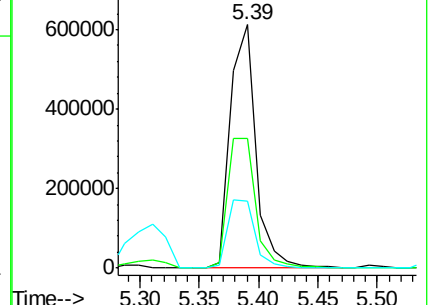
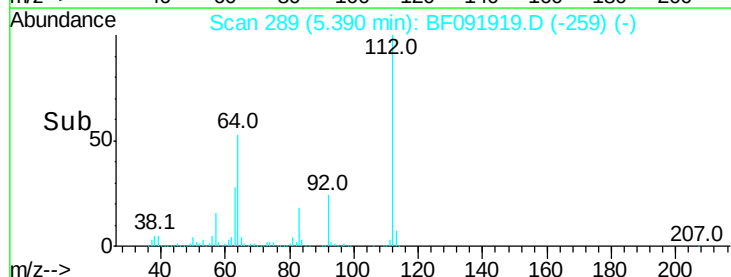
63 27.5 23.8 35.6

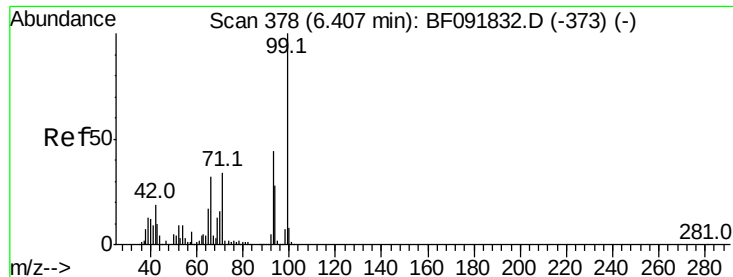


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 39.82 ng

RT: 6.45 min Scan# 382

Delta R.T. 0.05 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Instrument :

BNA_F

ClientSampleId :

WC-201612RE

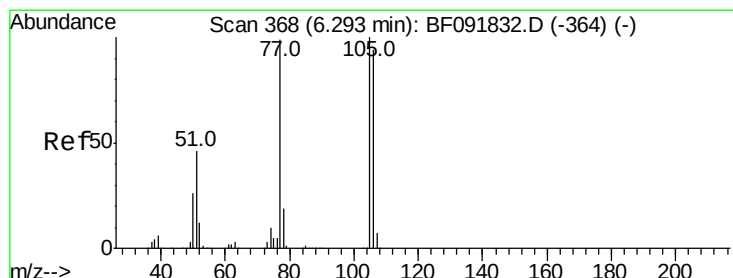
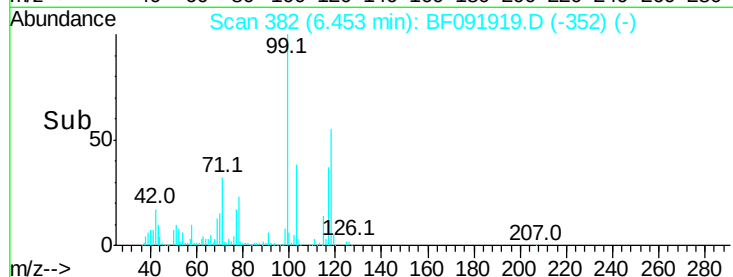
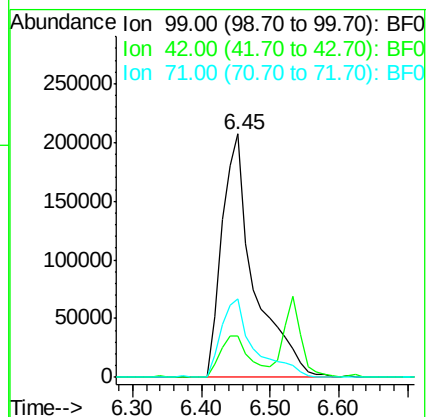
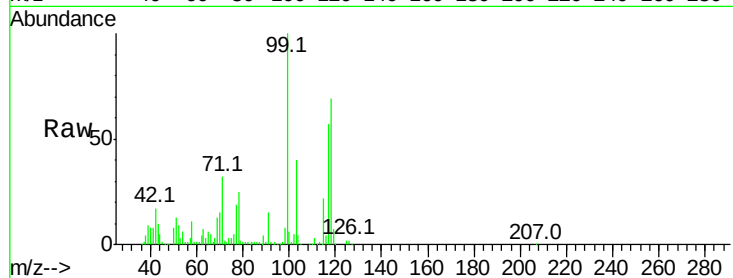
Tot Ion: 99 Resp: 680356

Ion Ratio Lower Upper

99 100

42 17.1 15.6 23.4

71 32.3 27.5 41.3



#9

Benzaldehyde

Concen: 8.15 ng

RT: 6.29 min Scan# 368

Delta R.T. 0.00 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

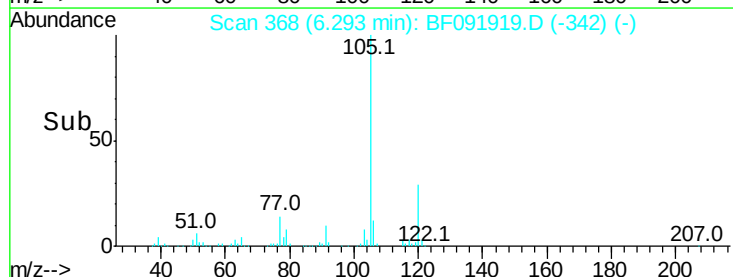
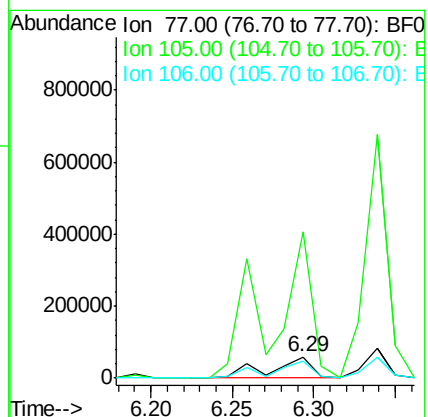
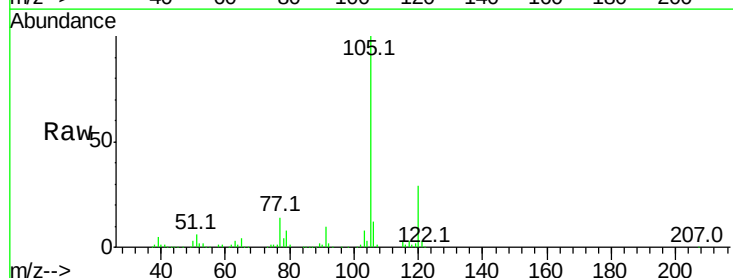
Tgt Ion: 77 Resp: 104018

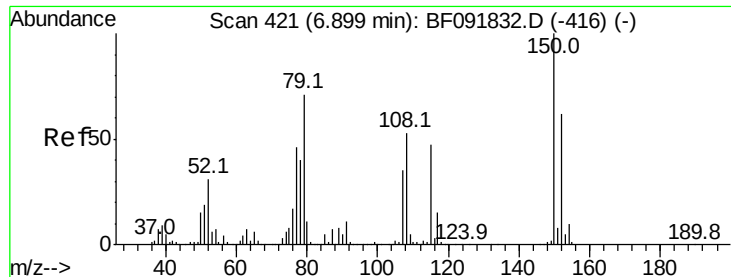
Ion Ratio Lower Upper

77 100

105 700.0 83.9 123.9#

106 81.7 77.6 117.6





#15

Benzyl Alcohol

Concen: 28.29 ng

RT: 6.86 min Scan# 418

Delta R.T. -0.03 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Instrument :

BNA_F

ClientSampleId :

WC-201612RE

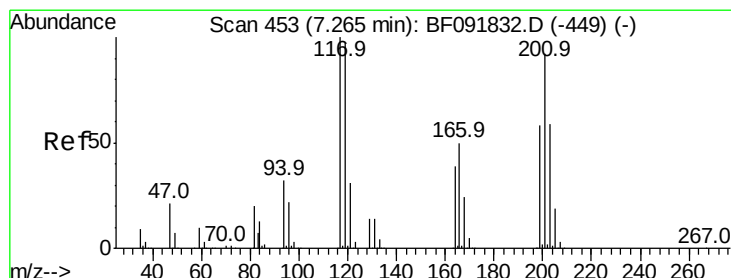
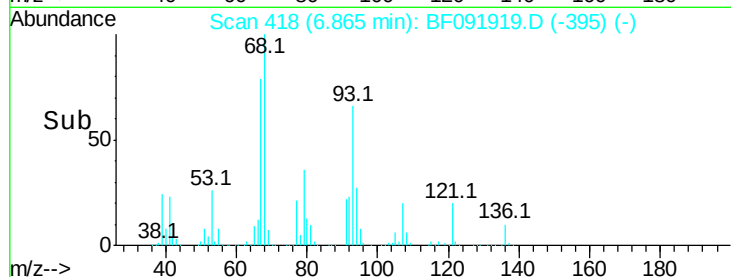
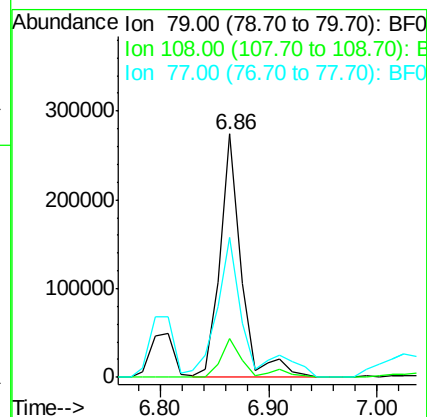
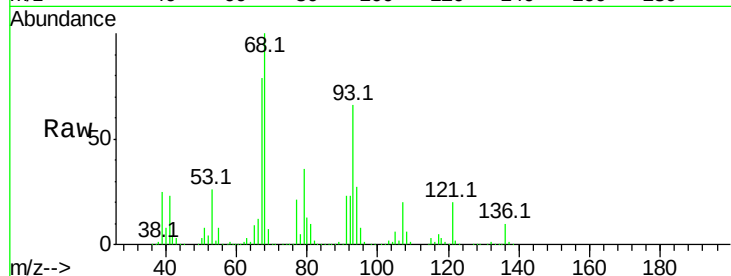
Tot Ion: 79 Resp: 375643

Ion Ratio Lower Upper

79 100

108 15.7 61.4 92.0#

77 57.4 50.9 76.3



#18

Hexachloroethane

Concen: 12.51 ng

RT: 7.29 min Scan# 455

Delta R.T. 0.02 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

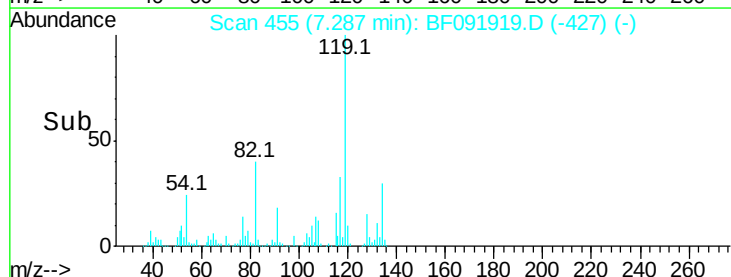
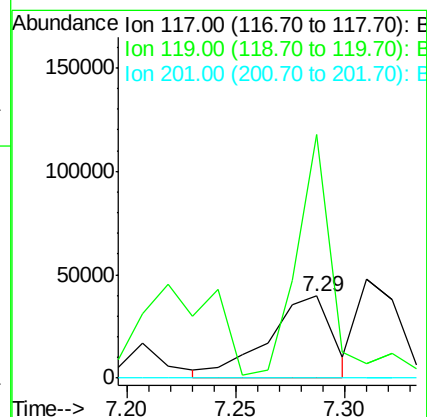
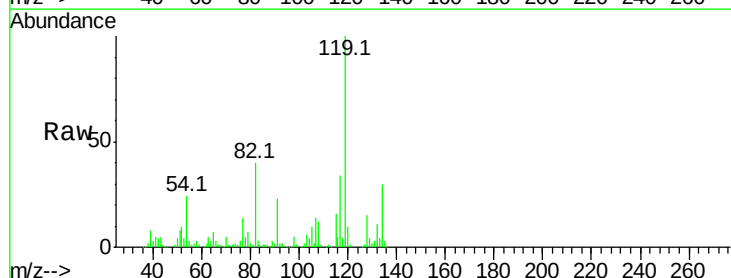
Tgt Ion: 117 Resp: 80202

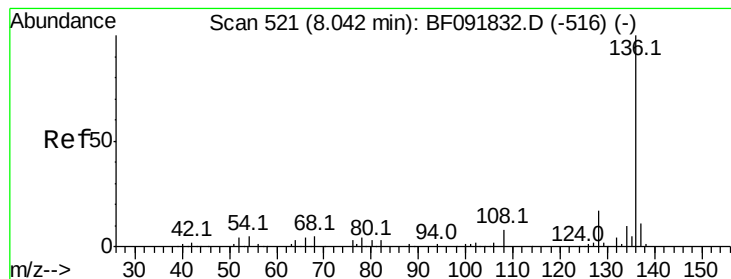
Ion Ratio Lower Upper

117 100

119 297.4 78.1 117.1#

201 0.0 78.6 117.8#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.04 min Scan# 521

Delta R.T. 0.00 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Instrument :

BNA_F

ClientSampleId :

WC-201612RE

Tot Ion:136 Resp: 507312

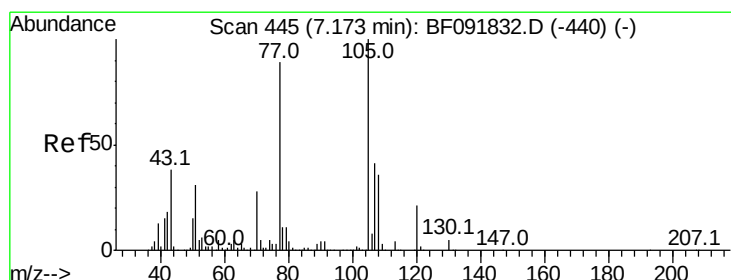
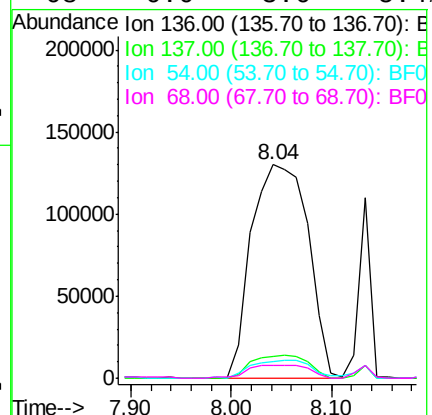
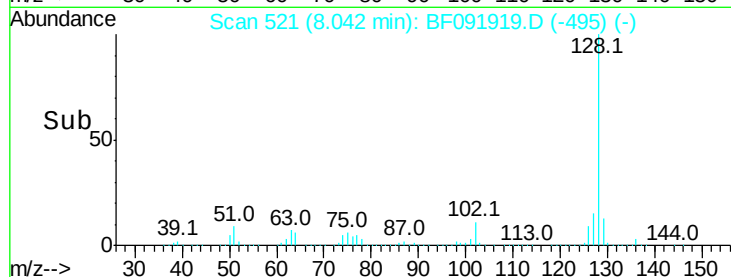
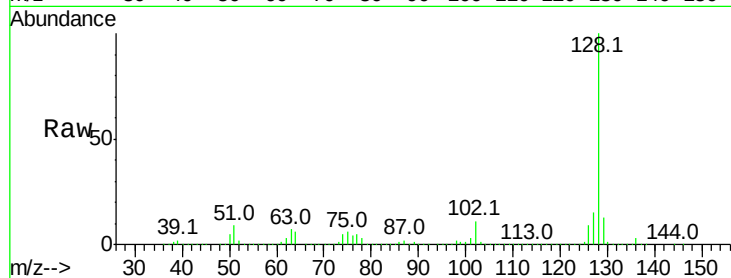
Ion Ratio Lower Upper

136 100

137 10.4 8.4 12.6

54 8.0 4.5 6.7#

68 6.0 3.6 5.4#



#22

Acetophenone

Concen: 7.49 ng

RT: 7.15 min Scan# 443

Delta R.T. -0.02 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Tgt Ion:105 Resp: 93774

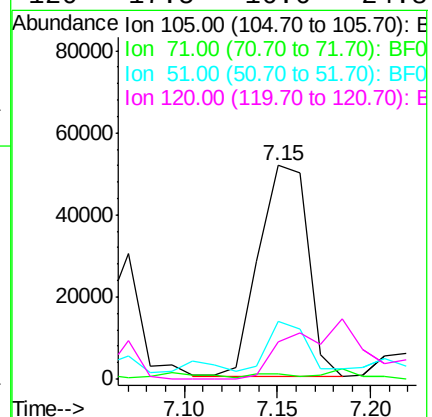
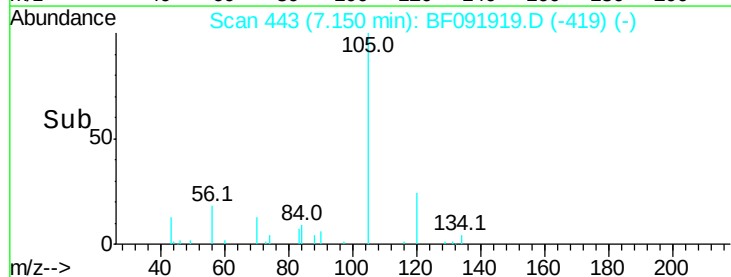
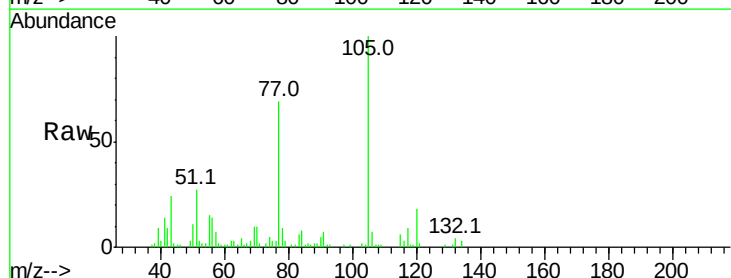
Ion Ratio Lower Upper

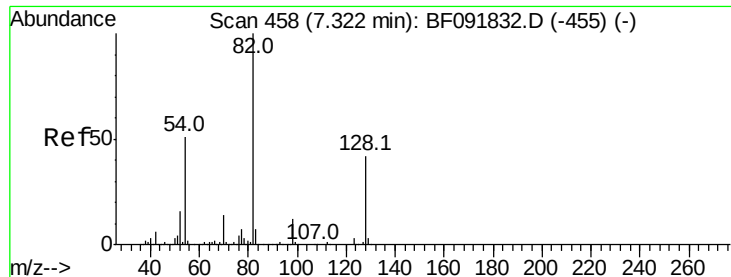
105 100

71 2.4 3.2 4.8#

51 26.8 26.2 39.4

120 17.5 16.6 24.8





#23

Nitrobenzene-d5

Concen: 183.77 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.01 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Instrument :

BNA_F

ClientSampleId :

WC-201612RE

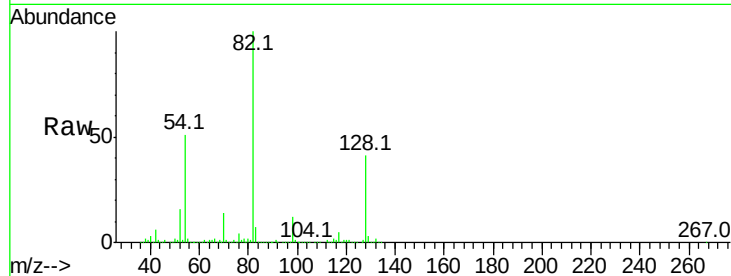
Tot Ion: 82 Resp: 1676568

Ion Ratio Lower Upper

82 100

128 41.1 34.6 52.0

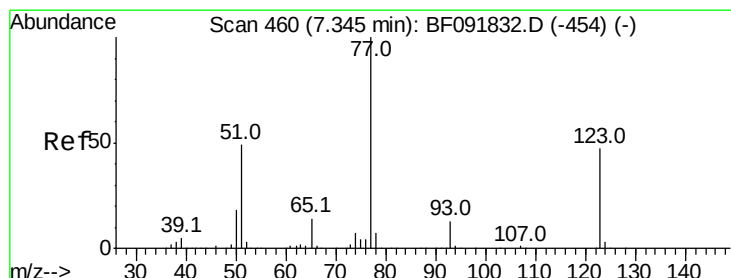
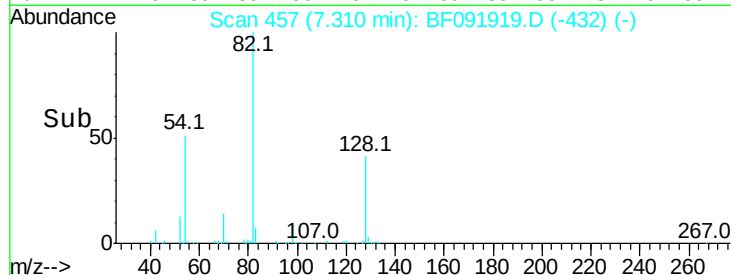
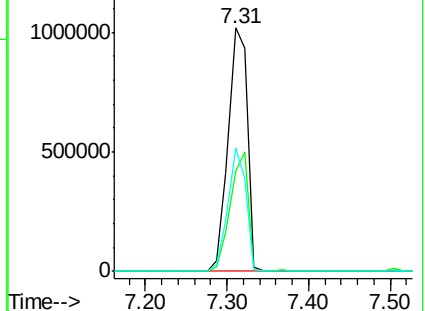
54 50.6 39.5 59.3



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#24

Nitrobenzene

Concen: 2.29 ng

RT: 7.37 min Scan# 462

Delta R.T. 0.02 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

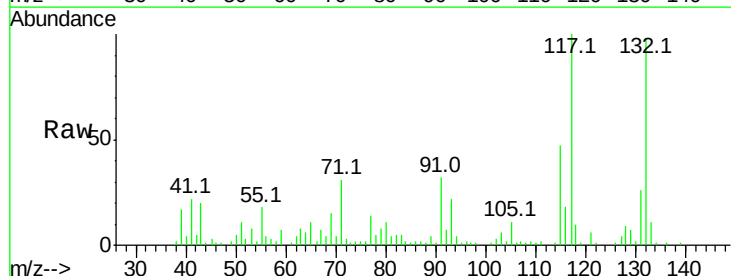
Tgt Ion: 77 Resp: 22238

Ion Ratio Lower Upper

77 100

123 0.0 33.0 49.4#

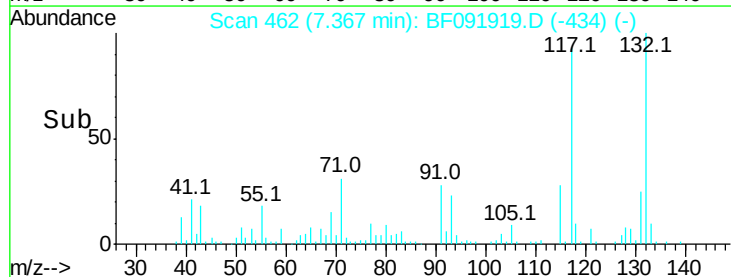
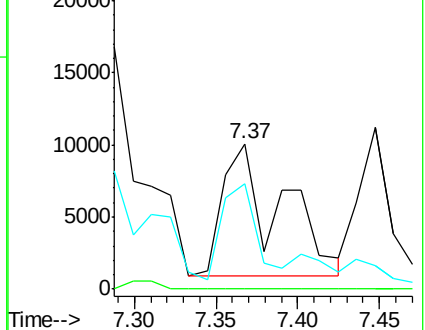
65 73.0 11.2 16.8#

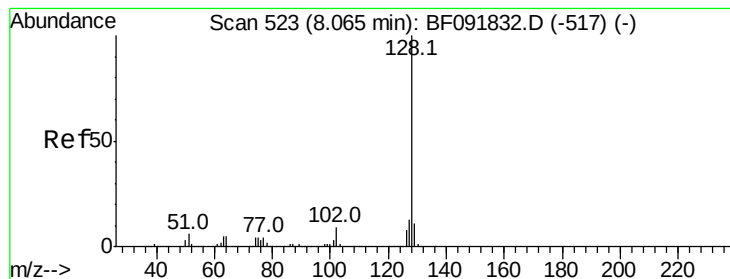


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 123.00 (122.70 to 123.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#31

Naphthalene

Concen: 1121.80 ng

RT: 8.10 min Scan# 526

Delta R.T. 0.03 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

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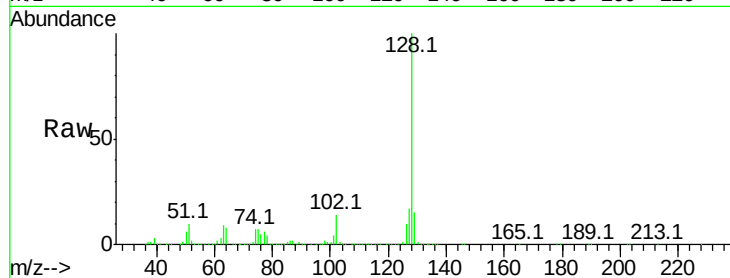
Tot Ion:128 Resp:26046437

Ion Ratio Lower Upper

128 100

129 14.6 9.5 14.3#

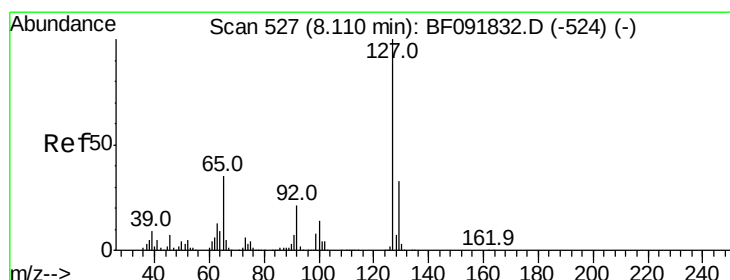
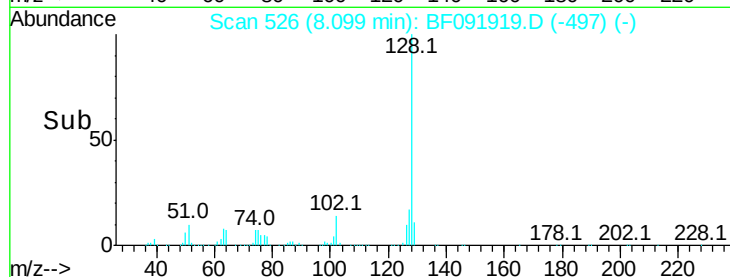
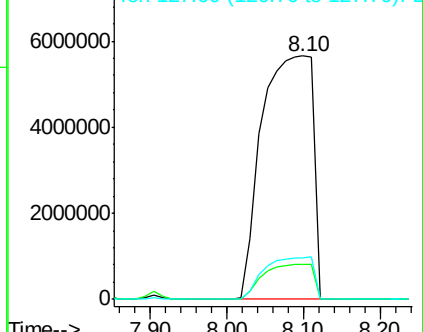
127 17.3 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#33

4-Chloroaniline

Concen: 413.32 ng

RT: 8.11 min Scan# 527

Delta R.T. 0.00 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Tgt Ion:127 Resp: 4327206

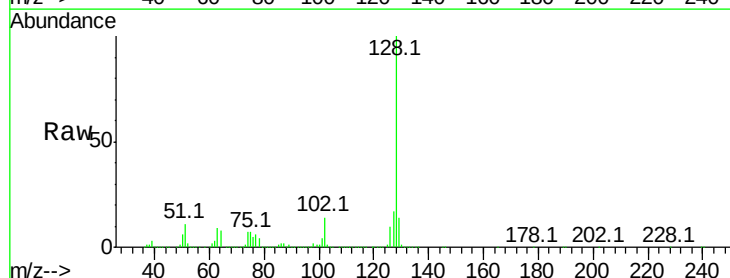
Ion Ratio Lower Upper

127 100

129 81.9 26.3 39.5#

65 0.0 25.8 38.8#

92 0.0 16.1 24.1#

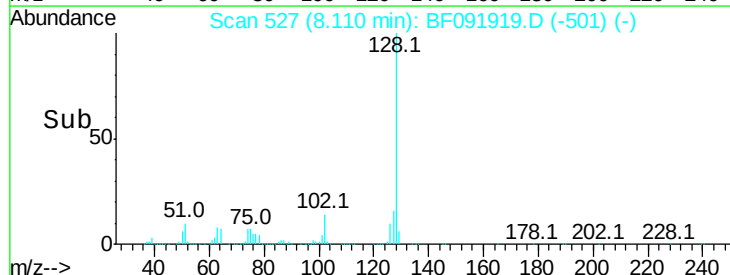
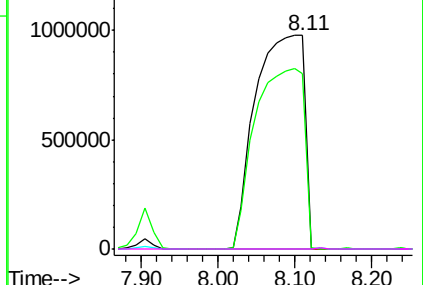


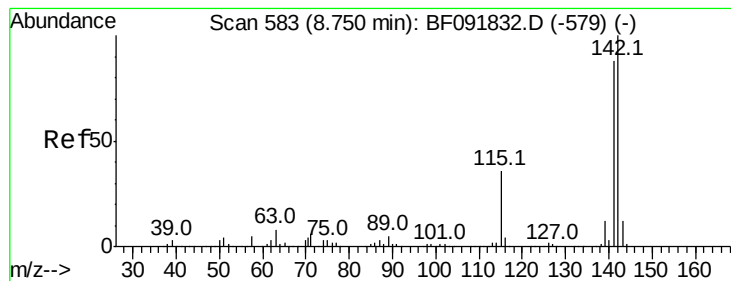
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0





#37

2-Methylnaphthalene

Concen: Below Cal

RT: 8.75 min Scan# 583

Delta R.T. 0.00 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Instrument :

BNA_F

ClientSampleId :

WC-201612RE

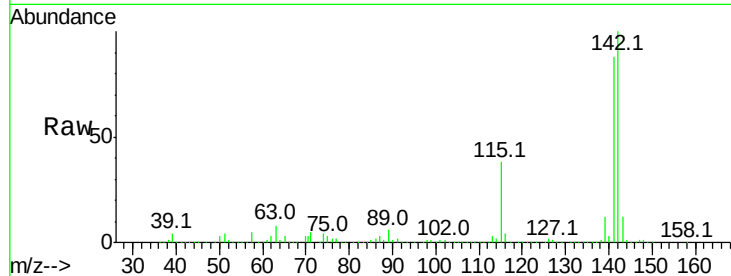
Tot Ion:142 Resp: 3001230

Ion Ratio Lower Upper

142 100

141 88.2 71.0 106.6

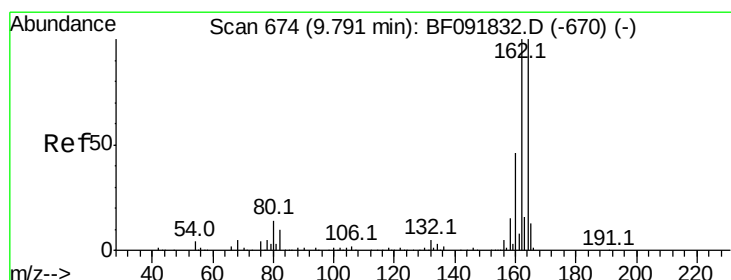
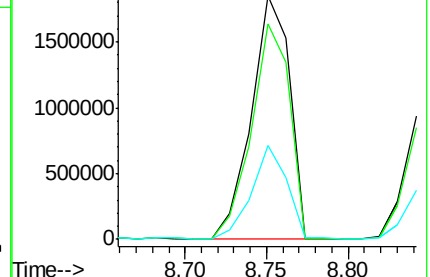
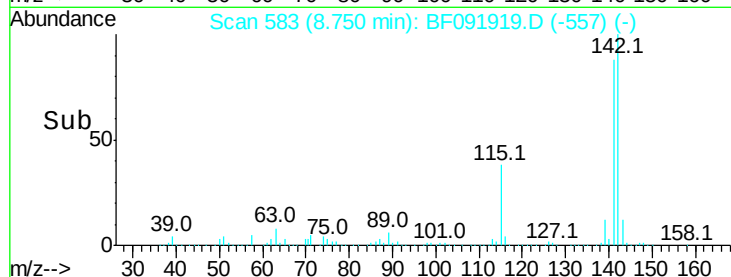
115 38.3 28.3 42.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.01 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

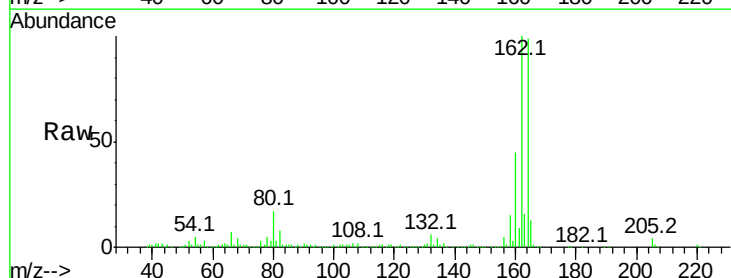
Tgt Ion:164 Resp: 427259

Ion Ratio Lower Upper

164 100

162 101.4 80.2 120.2

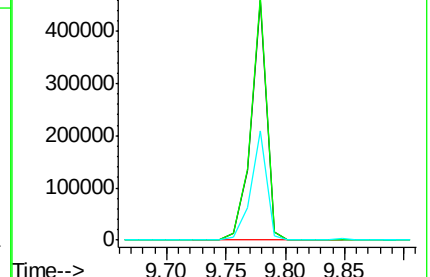
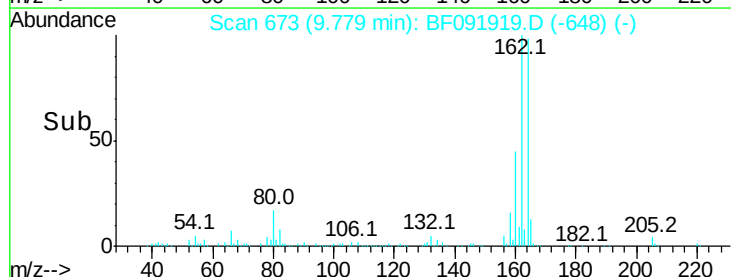
160 45.7 36.9 55.3

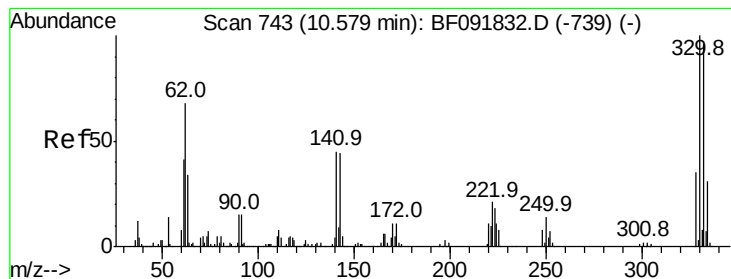


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 145.53 ng

RT: 10.58 min Scan# 743

Delta R.T. 0.00 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Instrument :

BNA_F

ClientSampleId :

WC-201612RE

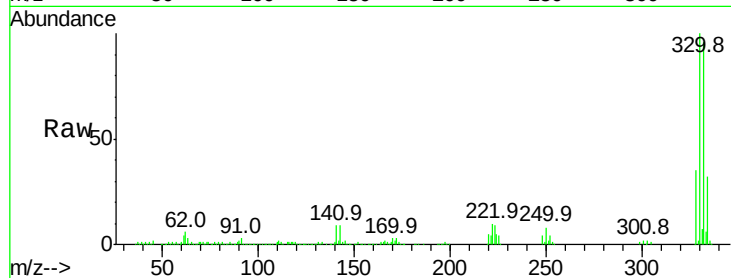
Tot Ion:330 Resp: 514570

Ion Ratio Lower Upper

330 100

332 95.0 77.4 116.2

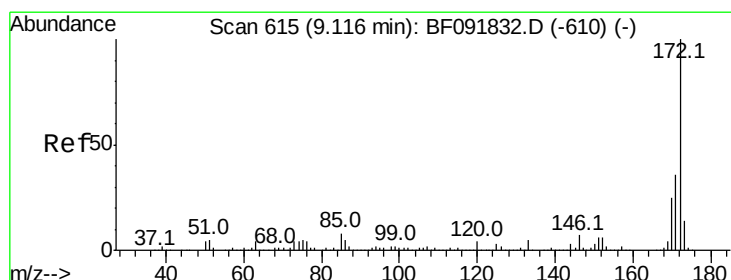
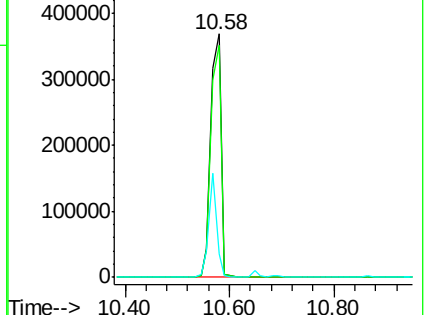
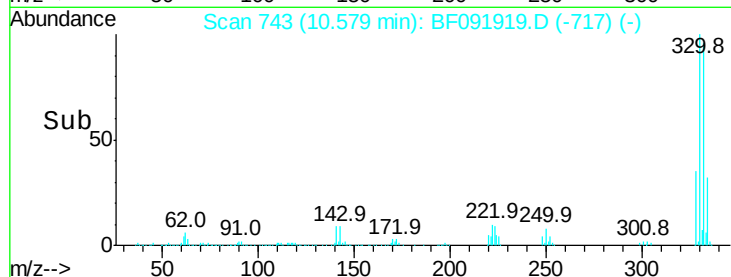
141 31.8 34.1 51.1#



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 110.72 ng

RT: 9.10 min Scan# 614

Delta R.T. -0.01 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

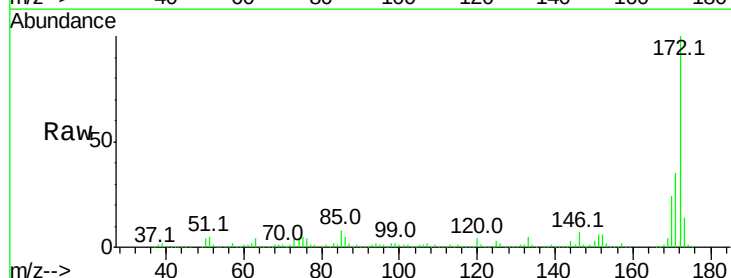
Tgt Ion:172 Resp: 2227467

Ion Ratio Lower Upper

172 100

171 35.2 29.4 44.0

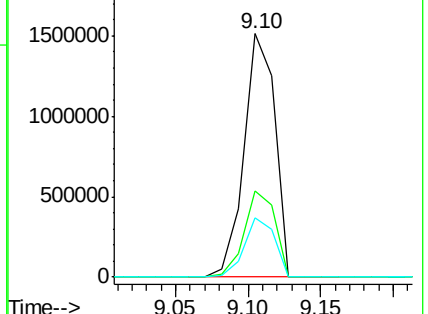
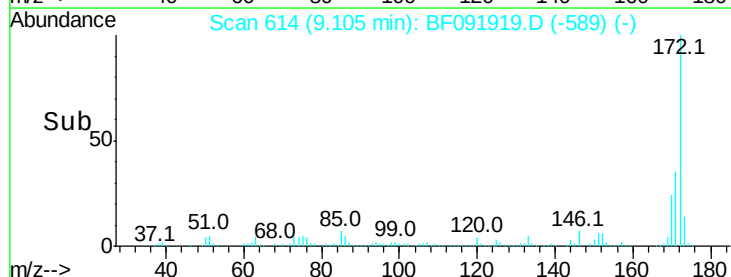
170 24.2 20.2 30.4

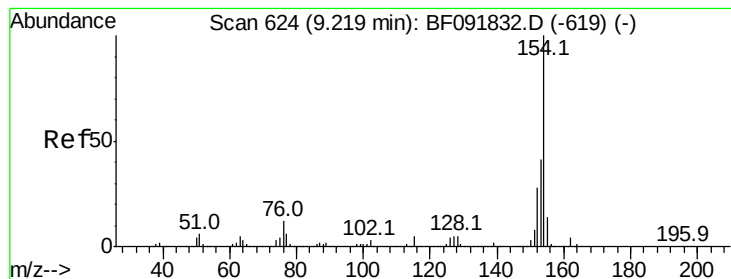


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 17.88 ng

RT: 9.21 min Scan# 623

Delta R.T. -0.01 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Instrument :

BNA_F

ClientSampleId :

WC-201612RE

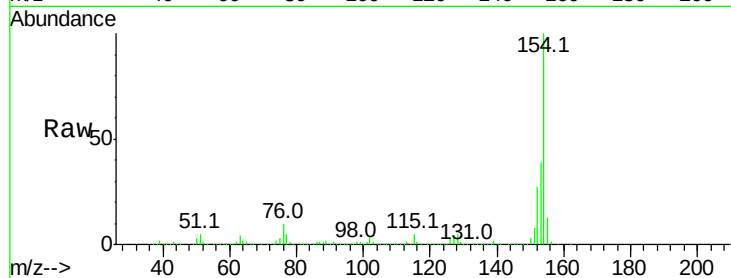
Tot Ion:154 Resp: 523000

Ion Ratio Lower Upper

154 100

153 38.9 20.9 60.9

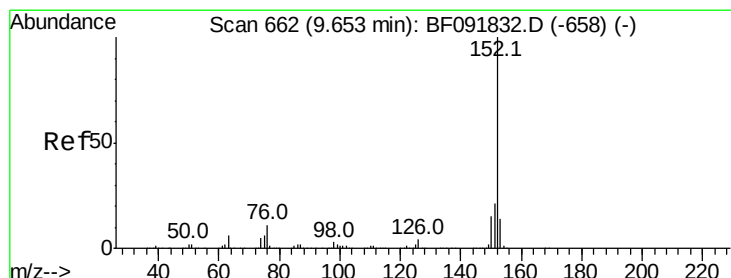
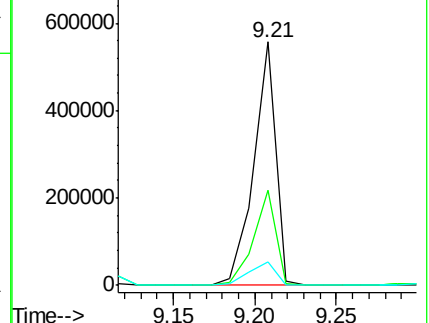
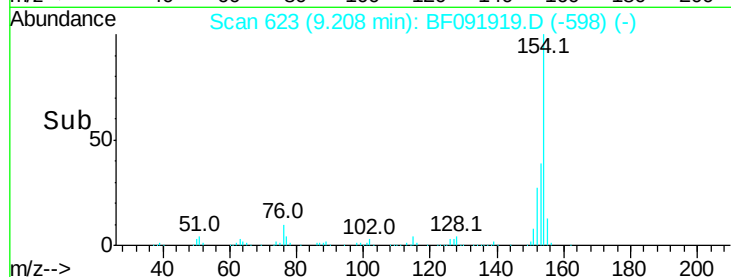
76 9.7 0.0 30.5



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 34.64 ng

RT: 9.64 min Scan# 661

Delta R.T. -0.01 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

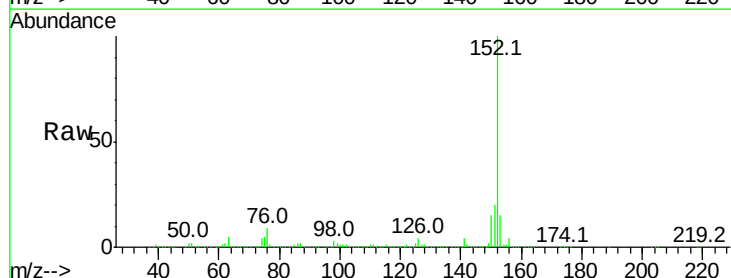
Tgt Ion:152 Resp: 1234308

Ion Ratio Lower Upper

152 100

151 20.2 16.9 25.3

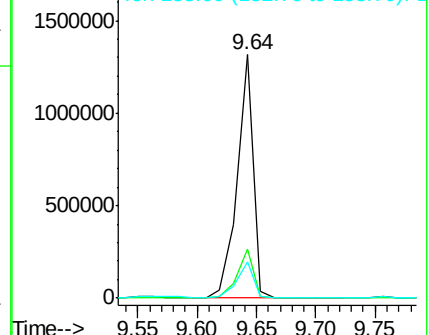
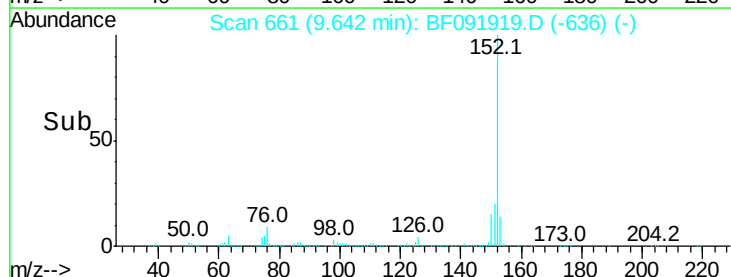
153 14.7 11.4 17.2

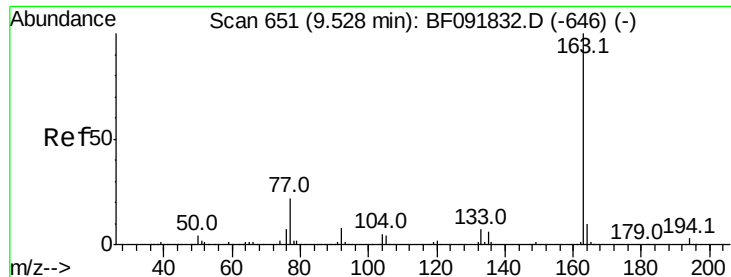


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 4.59 ng

RT: 9.50 min Scan# 649

Delta R.T. -0.02 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Instrument :

BNA_F

ClientSampleId :

WC-201612RE

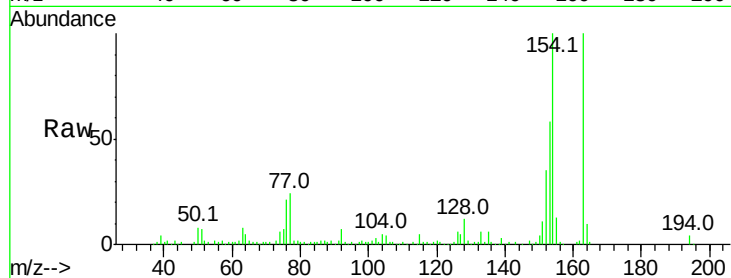
Tot Ion:163 Resp: 125320

Ion Ratio Lower Upper

163 100

194 3.5 3.0 4.4

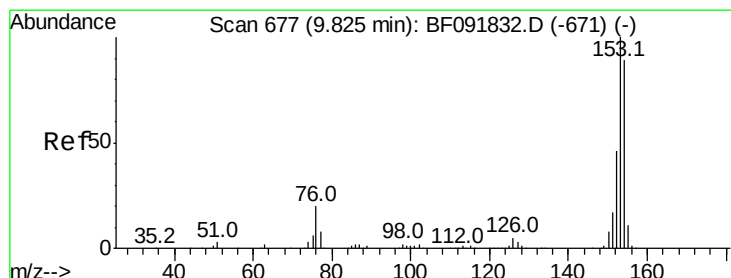
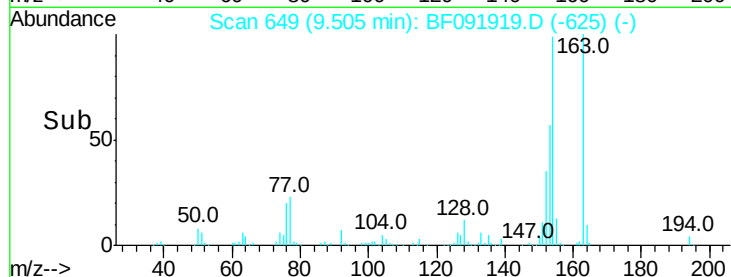
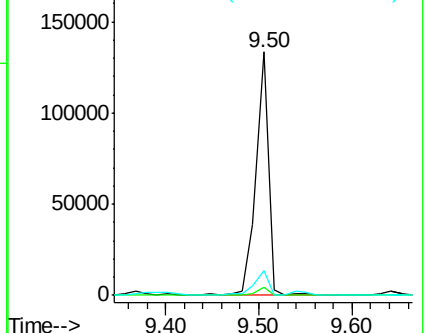
164 10.1 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 8.36 ng

RT: 9.81 min Scan# 676

Delta R.T. -0.01 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

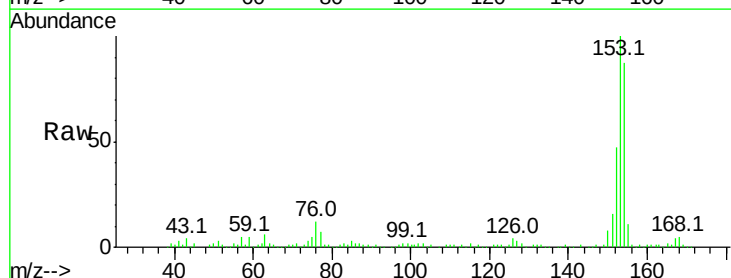
Tgt Ion:154 Resp: 201901

Ion Ratio Lower Upper

154 100

153 115.0 88.6 133.0

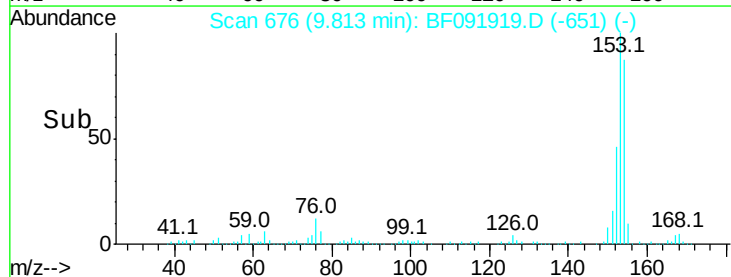
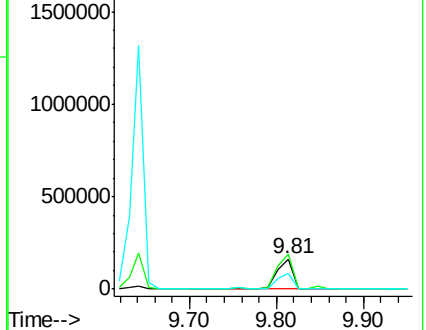
152 53.5 41.6 62.4

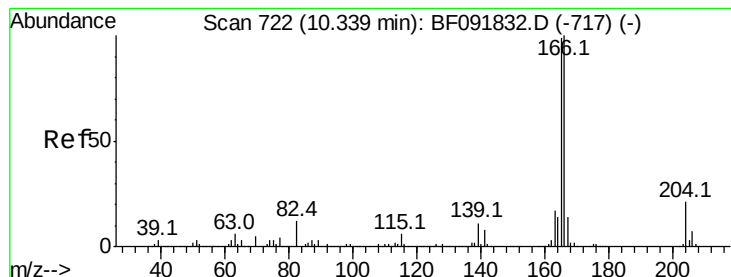


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#57

Fluorene

Concen: 9.62 ng

RT: 10.32 min Scan# 720

Delta R.T. -0.02 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Instrument :

BNA_F

ClientSampleId :

WC-201612RE

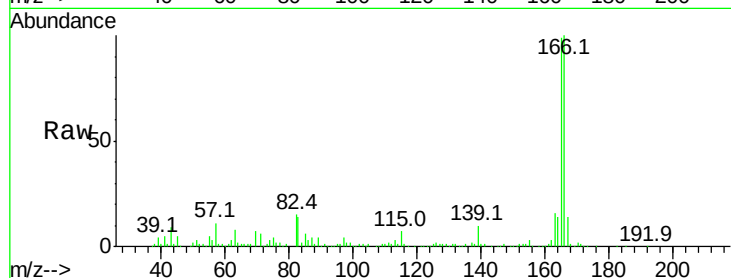
Tot Ion:166 Resp: 228432

Ion Ratio Lower Upper

166 100

165 99.4 77.8 116.8

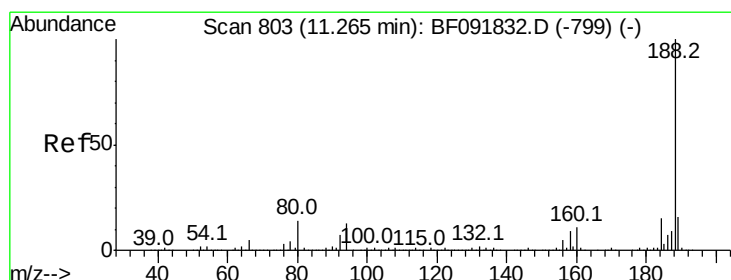
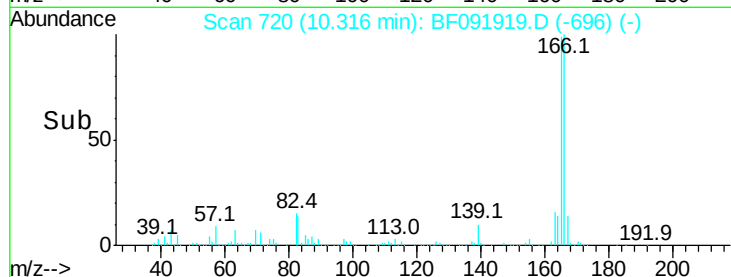
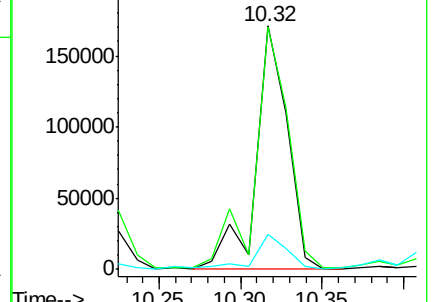
167 14.4 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.25 min Scan# 802

Delta R.T. -0.01 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

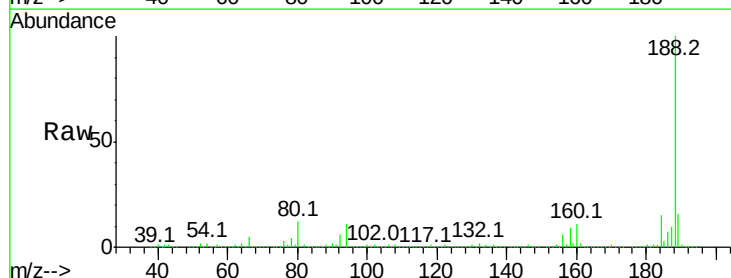
Tgt Ion:188 Resp: 649114

Ion Ratio Lower Upper

188 100

94 11.1 10.0 15.0

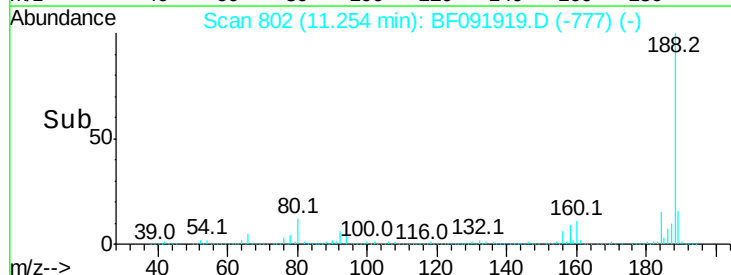
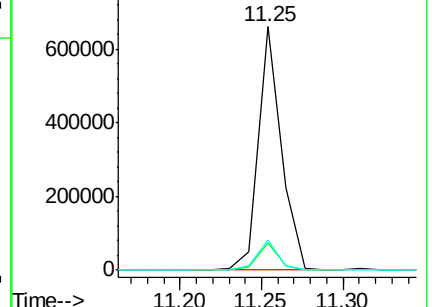
80 12.4 11.2 16.8

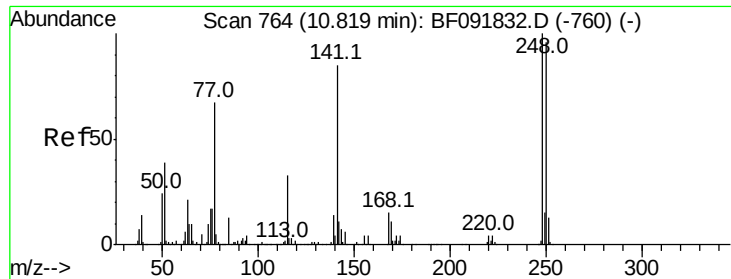


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

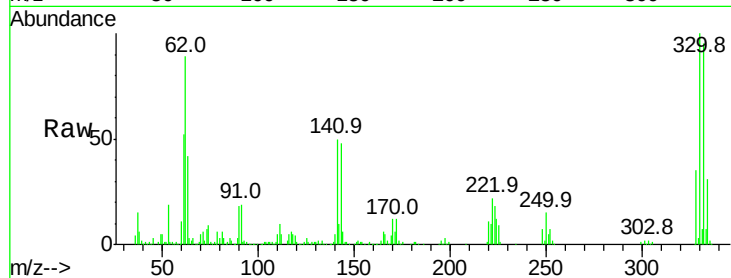




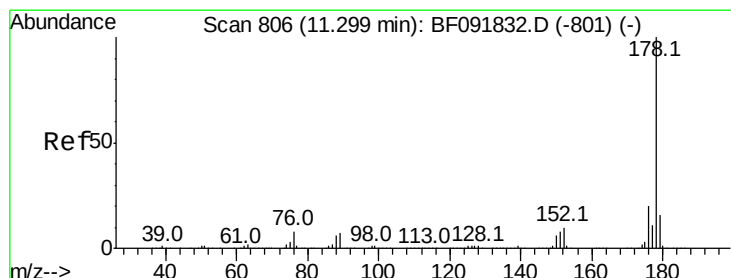
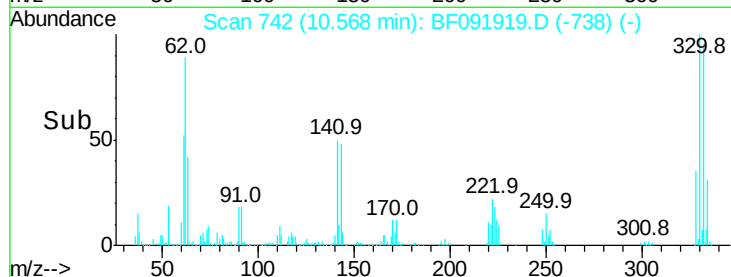
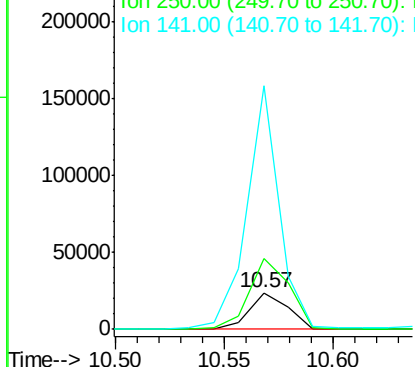
#66
4-Bromophenyl-phenylether
Concen: 4.41 ng
RT: 10.57 min Scan# 742
Delta R.T. -0.25 min
Lab File: BF091919.D
Acq: 23 Dec 2016 12:58

Instrument :
BNA_F
ClientSampleId :
WC-201612RE

Tot Ion:248 Resp: 29770
Ion Ratio Lower Upper
248 100
250 195.3 76.9 115.3#
141 668.8 68.2 102.4#

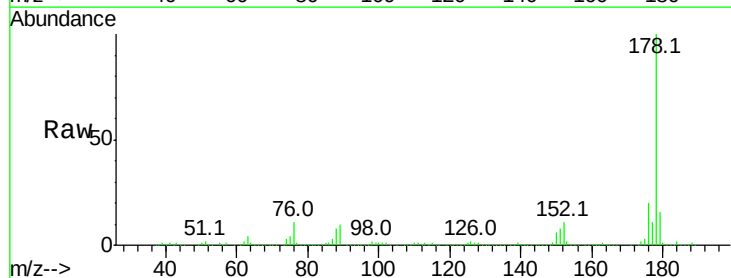


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

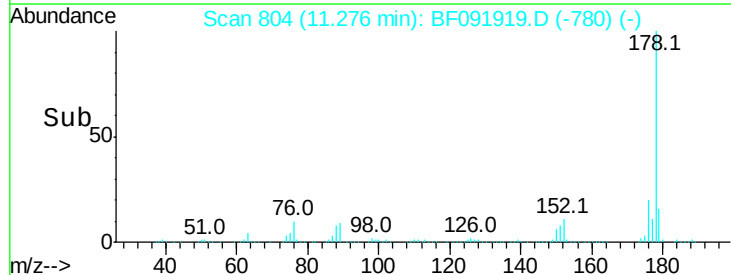
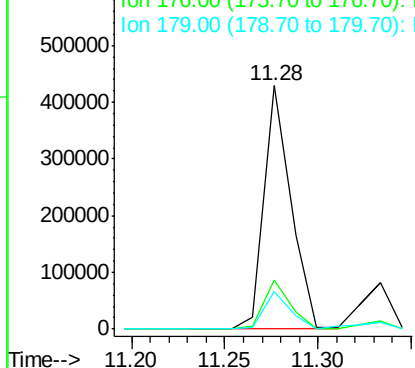


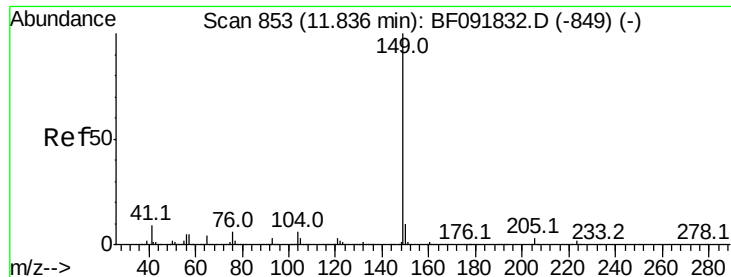
#70
Phenanthrene
Concen: 12.15 ng
RT: 11.28 min Scan# 804
Delta R.T. -0.02 min
Lab File: BF091919.D
Acq: 23 Dec 2016 12:58

Tgt Ion:178 Resp: 427652
Ion Ratio Lower Upper
178 100
176 20.0 16.6 25.0
179 15.7 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#73

Di-n-butylphthalate

Concen: Below Cal

RT: 11.83 min Scan# 852

Delta R.T. -0.01 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Instrument :

BNA_F

ClientSampleId :

WC-201612RE

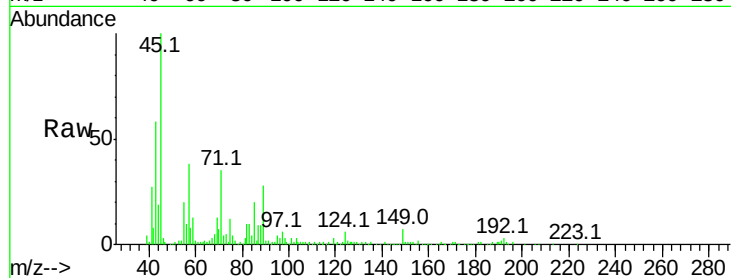
Tot Ion:149 Resp: 8221

Ion Ratio Lower Upper

149 100

150 11.3 8.1 12.1

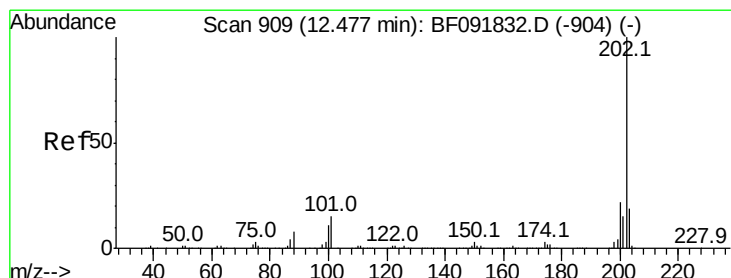
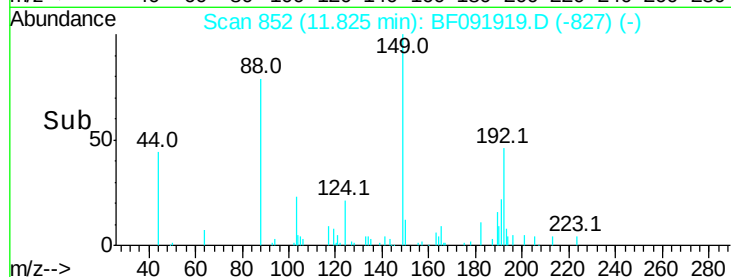
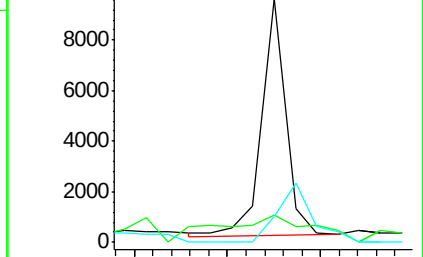
104 10.9 4.6 7.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: Below Cal

RT: 12.47 min Scan# 908

Delta R.T. -0.01 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

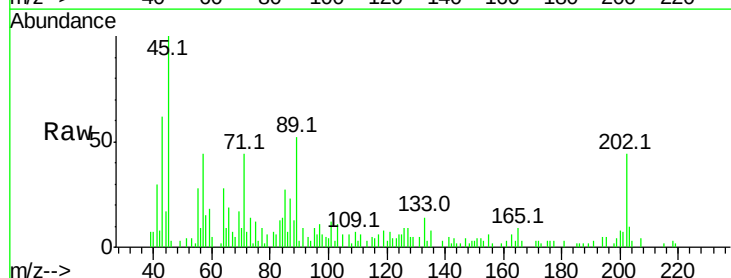
Tgt Ion:202 Resp: 5761

Ion Ratio Lower Upper

202 100

101 27.1 0.0 34.6

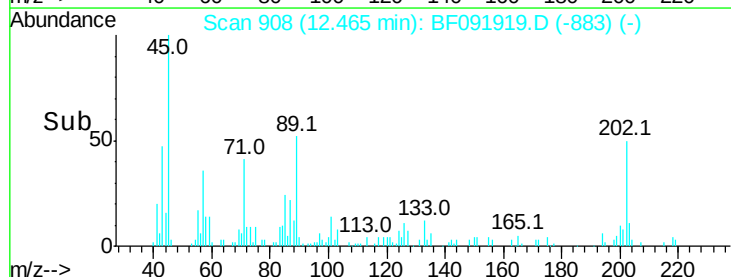
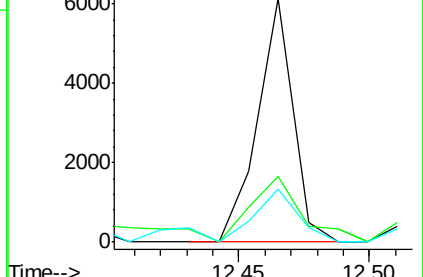
203 22.0 0.0 38.7

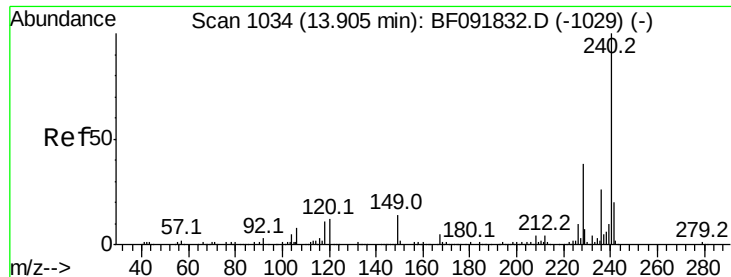


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.88 min Scan# 1032

Delta R.T. -0.02 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

Instrument :

BNA_F

ClientSampleId :

WC-201612RE

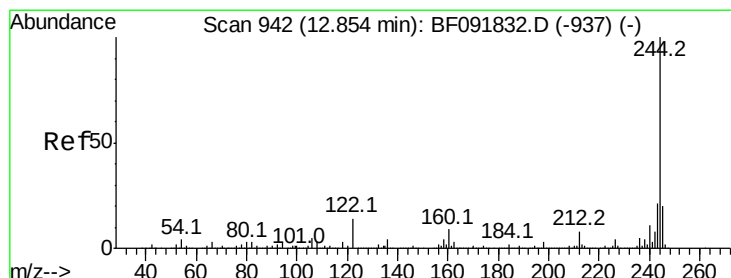
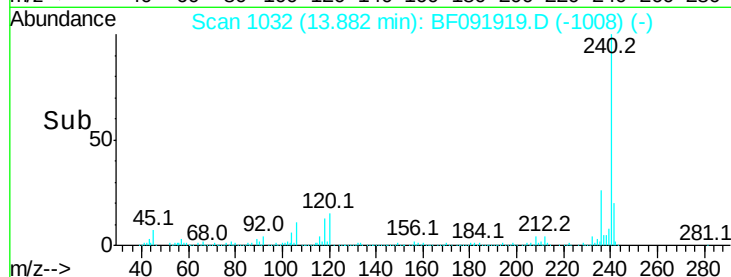
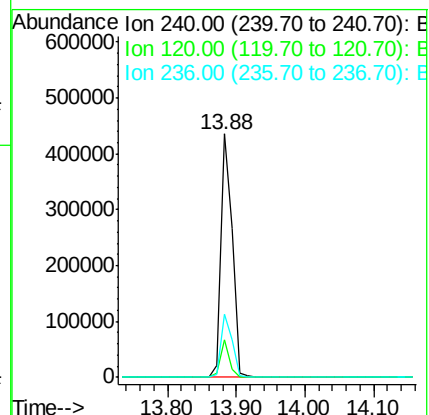
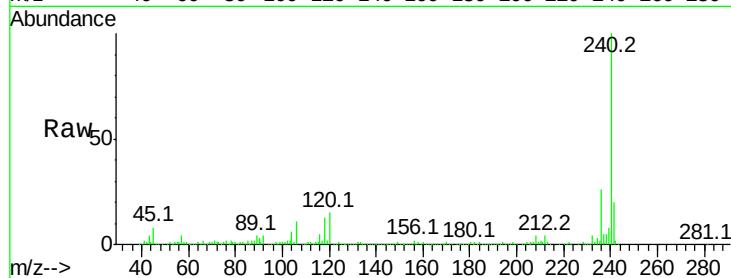
Tot Ion:240 Resp: 508566

Ion Ratio Lower Upper

240 100

120 15.3 12.9 19.3

236 25.9 20.9 31.3



#78

Terphenyl-d14

Concen: 78.55 ng

RT: 12.84 min Scan# 941

Delta R.T. -0.01 min

Lab File: BF091919.D

Acq: 23 Dec 2016 12:58

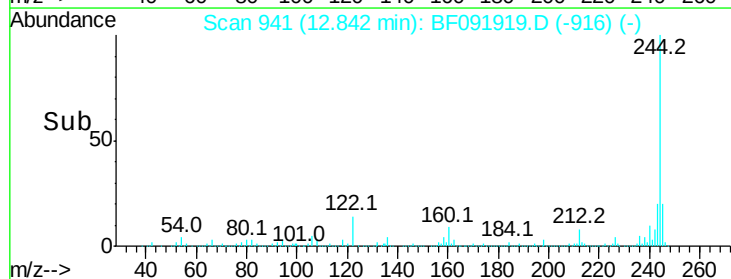
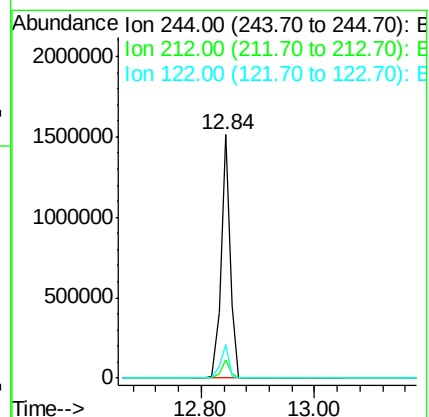
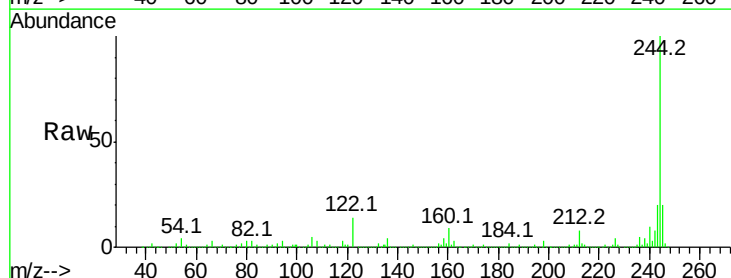
Tgt Ion:244 Resp: 1647091

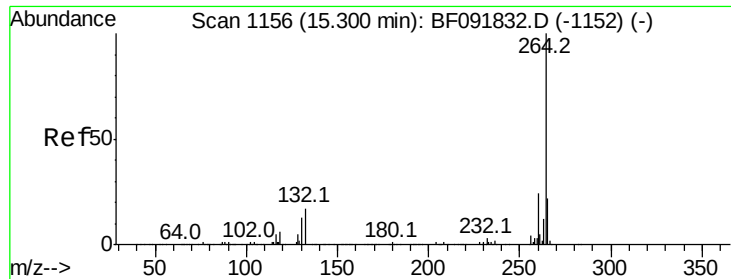
Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.2

122 13.6 11.4 17.2

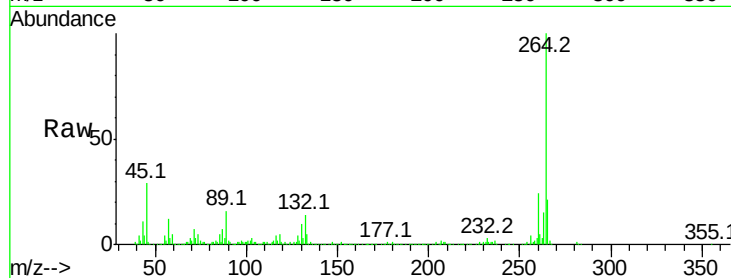




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.29 min Scan# 1155
Delta R.T. -0.01 min
Lab File: BF091919.D
Acq: 23 Dec 2016 12:58

Instrument :
BNA_F
ClientSampleId :
WC-201612RE

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.4	17.4	26.0



Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

