

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122016\
 Data File : BF091825.D
 Acq On : 20 Dec 2016 17:36
 Operator : UM/SJ
 Sample : H6165-05DL 25X
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-1-9-10DL

Quant Time: Dec 21 00:57:47 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 17 22:53:54 2016
 Response via : Initial Calibration

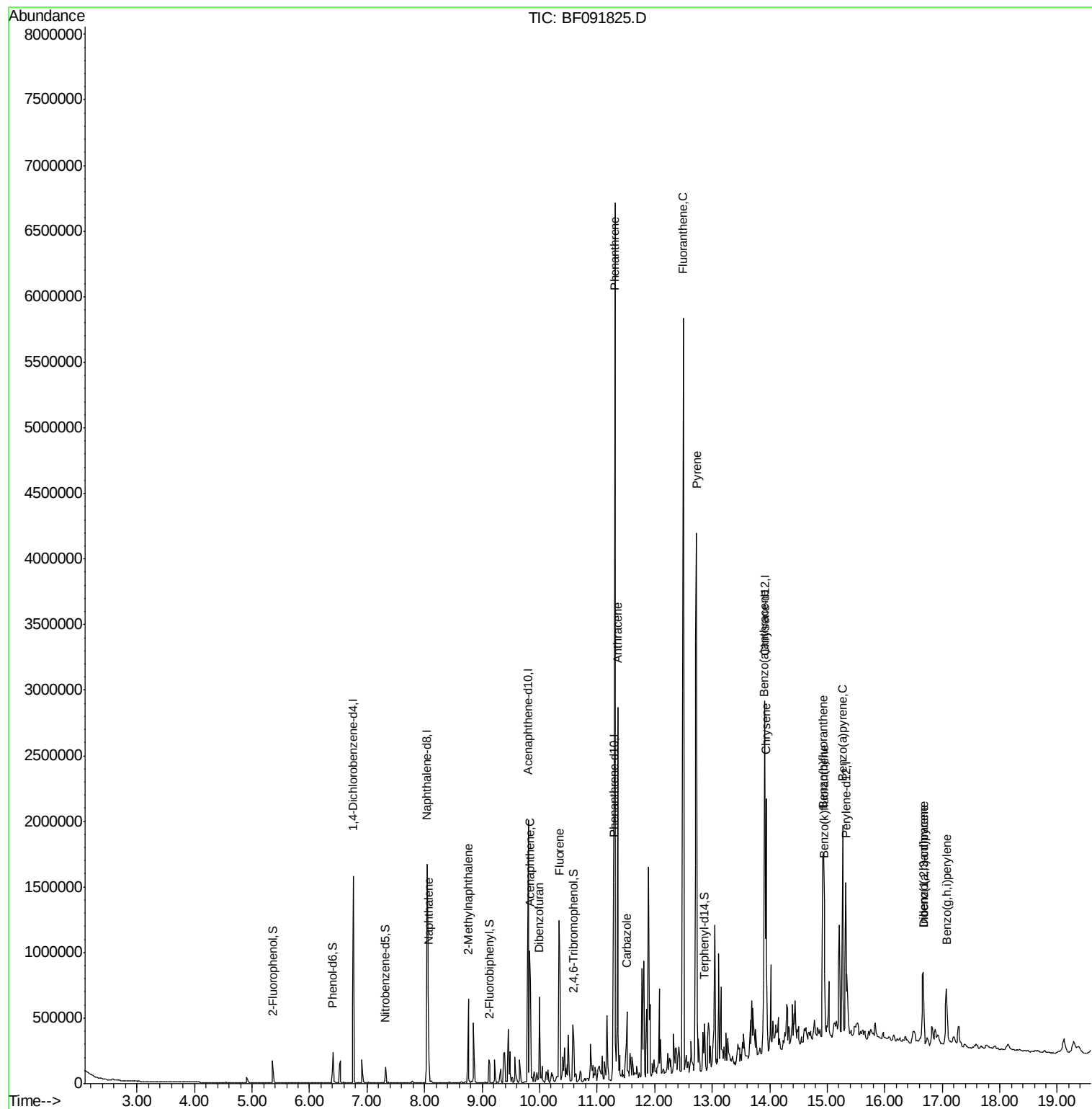
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	257614	20.00	ng	-0.01
21) Naphthalene-d8	8.04	136	988739	20.00	ng	-0.02
38) Acenaphthene-d10	9.80	164	517826	20.00	ng	-0.01
63) Phenanthrene-d10	11.29	188	801534	20.00	ng	0.00
75) Chrysene-d12	13.92	240	530291	20.00	ng	-0.01
86) Perylene-d12	15.32	264	528974	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	61800	4.02	ng	-0.01
7) Phenol-d6	6.41	99	86073	4.59	ng	-0.01
23) Nitrobenzene-d5	7.32	82	43107	2.51	ng	-0.02
41) 2,4,6-Tribromophenol	10.59	330	13668	3.11	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	81087	3.15	ng	-0.01
78) Terphenyl-d14	12.86	244	71526	3.41	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.06	128	304998	6.46	ng	99
37) 2-Methylnaphthalene	8.76	142	191845	6.44	ng	96
51) Acenaphthene	9.82	154	305749	10.37	ng	99
54) Dibenzofuran	10.00	168	313425	8.94	ng	97
57) Fluorene	10.34	166	464039	17.03	ng	99
70) Phenanthrene	11.31	178	2552950	63.74	ng	100
71) Anthracene	11.36	178	1069288	25.21	ng	99
72) Carbazole	11.52	167	236586	6.38	ng	96
74) Fluoranthene	12.50	202	2566518	61.36	ng	97
77) Pyrene	12.73	202	2319265	60.56	ng	99
80) Benzo(a)anthracene	13.91	228	1089774	35.93	ng	98
82) Chrysene	13.94	228	694488m	22.09	ng	
85) Indeno(1,2,3-cd)pyrene	16.67	276	395114	12.78	ng	94
87) Benzo(b)fluoranthene	14.93	252	1103311m	32.89	ng	
88) Benzo(k)fluoranthene	14.95	252	171636m	7.29	ng	
89) Benzo(a)pyrene	15.27	252	724022	25.15	ng	97
90) Dibenzo(a,h)anthracene	16.67	278	98534m	3.93	ng	
91) Benzo(g,h,i)perylene	17.07	276	330802	12.97	ng	96

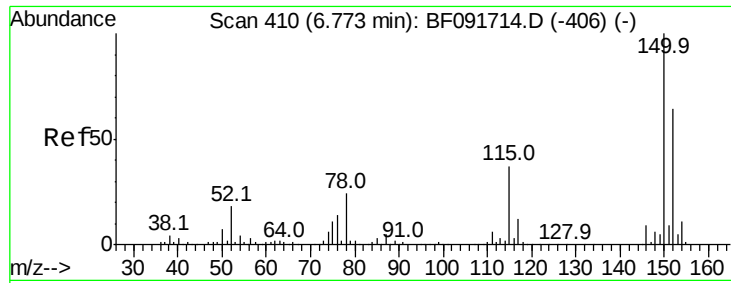
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.76 min Scan# 409

Delta R.T. -0.01 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Instrument :

BNA_F

ClientSampleId :

SB-1-9-10DL

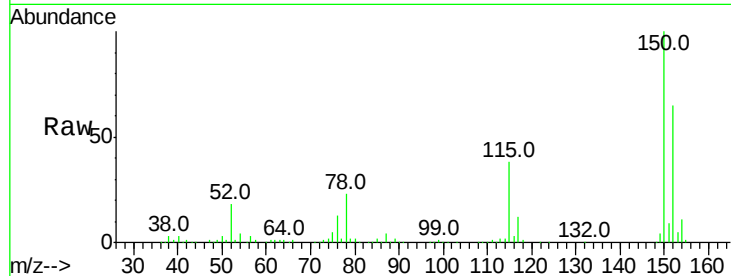
Tot Ion:152 Resp: 257614

Ion Ratio Lower Upper

152 100

150 154.5 124.9 187.3

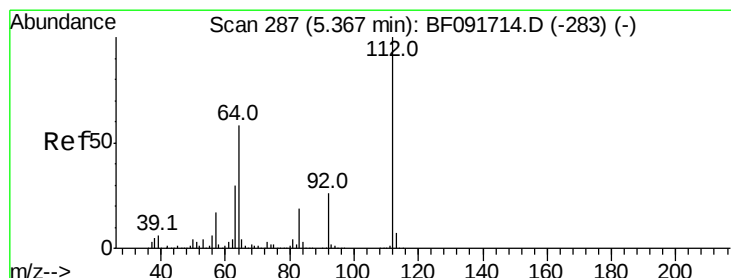
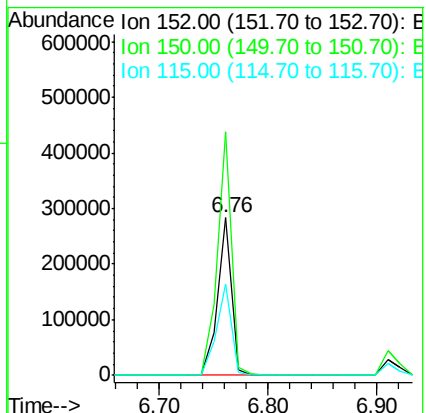
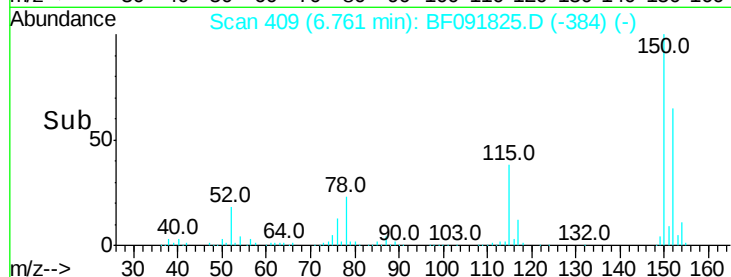
115 58.1 46.0 69.0



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: 4.02 ng

RT: 5.36 min Scan# 286

Delta R.T. -0.01 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

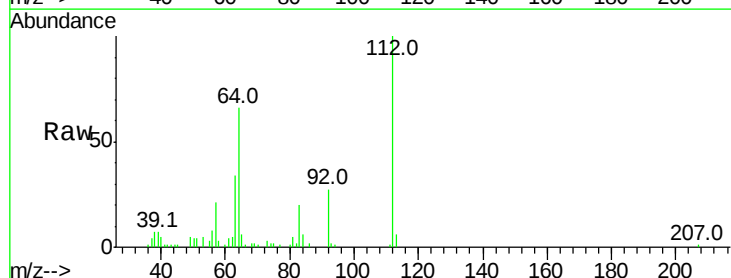
Tgt Ion:112 Resp: 61800

Ion Ratio Lower Upper

112 100

64 65.8 46.1 69.1

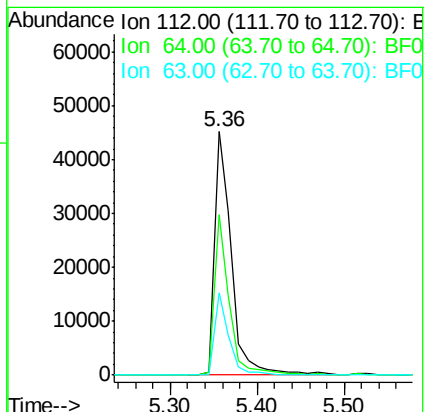
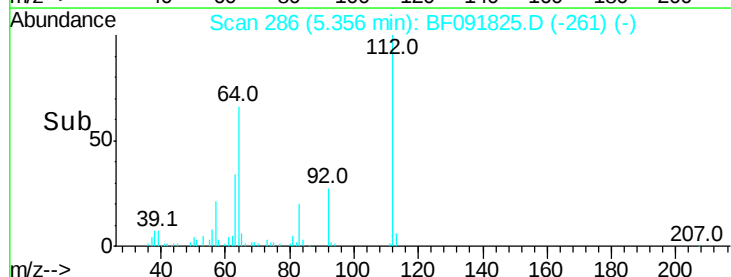
63 33.7 23.8 35.6

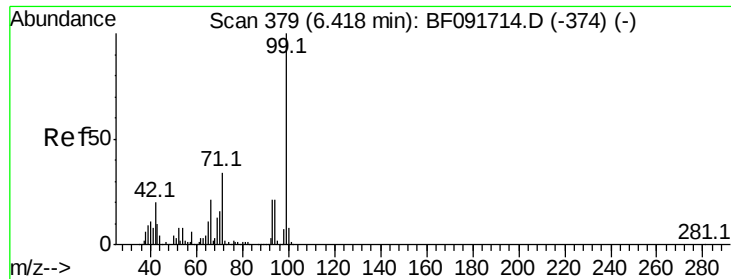


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 4.59 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Instrument :

BNA_F

ClientSampleId :

SB-1-9-10DL

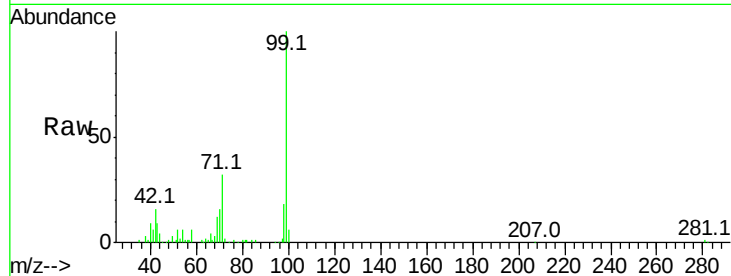
Tot Ion: 99 Resp: 86073

Ion Ratio Lower Upper

99 100

42 16.0 15.6 23.4

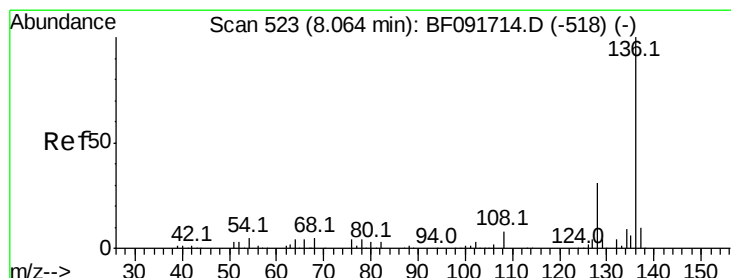
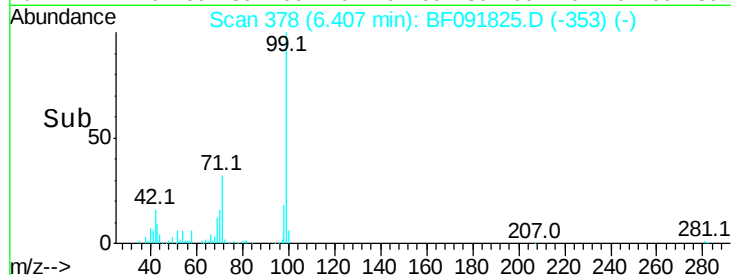
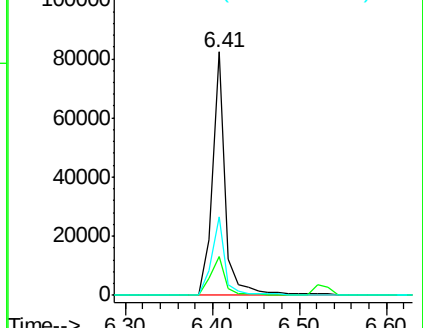
71 32.4 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.04 min Scan# 521

Delta R.T. -0.02 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Tgt Ion: 136 Resp: 988739

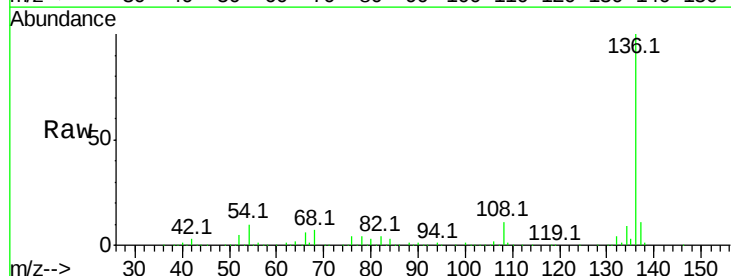
Ion Ratio Lower Upper

136 100

137 11.3 8.4 12.6

54 9.6 4.5 6.7#

68 7.4 3.6 5.4#

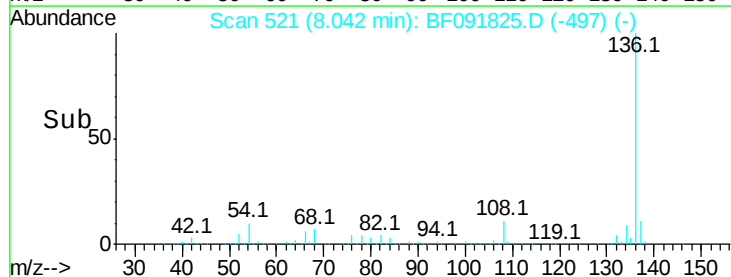
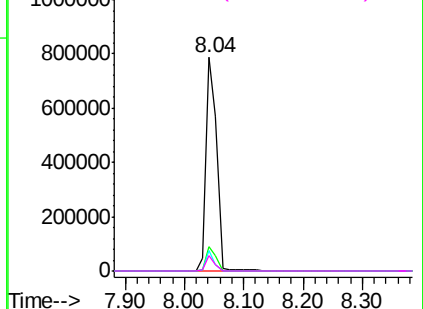


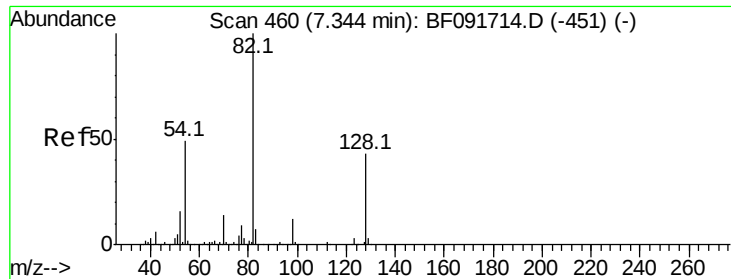
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

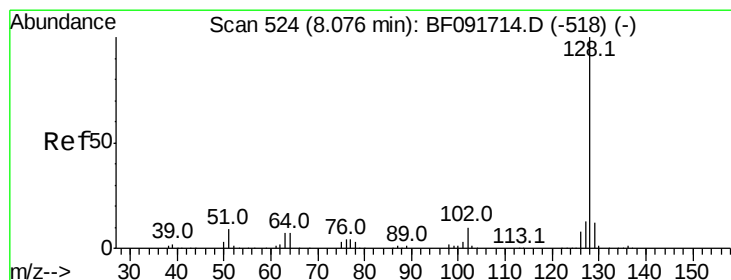
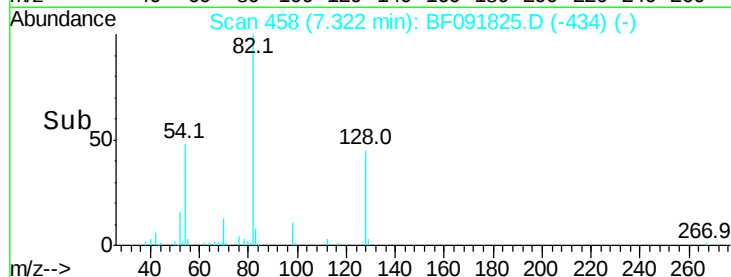
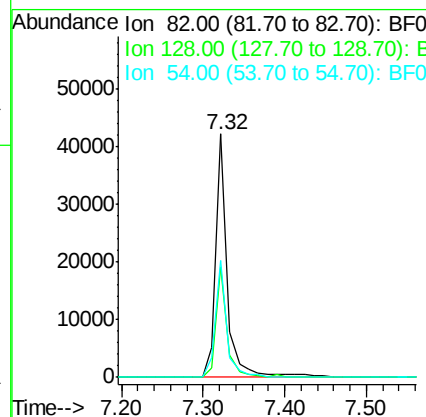
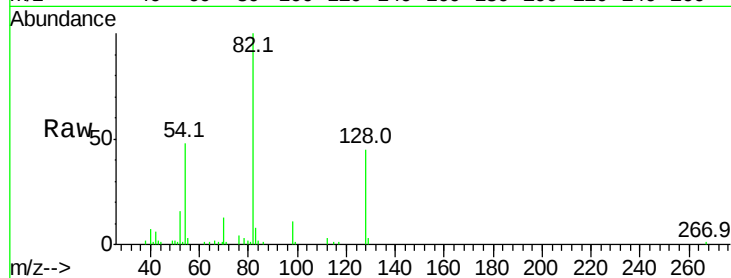




#23
Nitrobenzene-d5
Concen: 2.51 ng
RT: 7.32 min Scan# 458
Delta R.T. -0.02 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

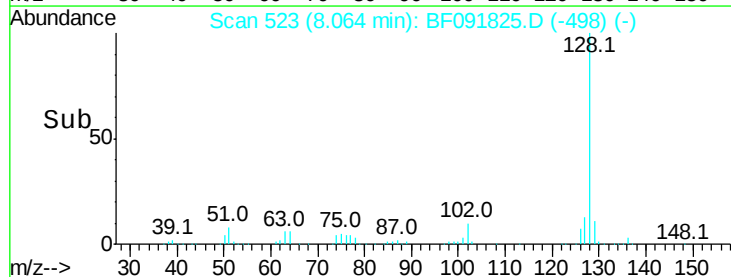
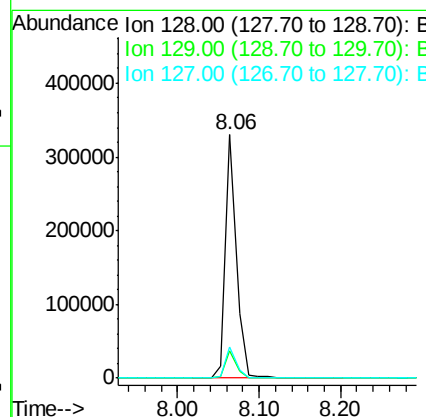
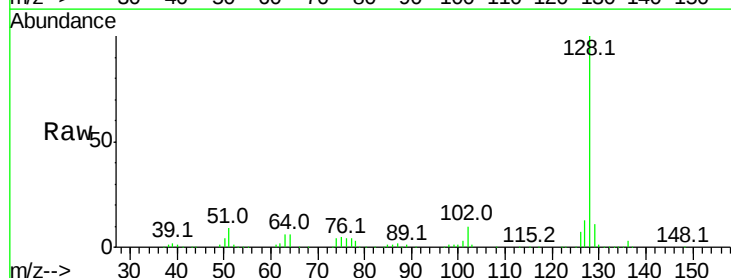
Instrument :
BNA_F
ClientSampleId :
SB-1-9-10DL

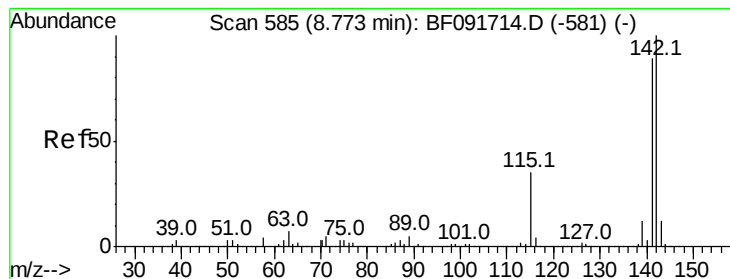
Tot Ion	82	Resp	43107
Ion	Ratio	Lower	Upper
82	100		
128	45.2	34.6	52.0
54	48.0	39.5	59.3



#31
Naphthalene
Concen: 6.46 ng
RT: 8.06 min Scan# 523
Delta R.T. -0.01 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

Tgt Ion	128	Resp	304998
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.5	14.3
127	13.0	10.8	16.2





#37

2-Methylnaphthalene

Concen: 6.44 ng

RT: 8.76 min Scan# 584

Delta R.T. -0.01 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Instrument :

BNA_F

ClientSampleId :

SB-1-9-10DL

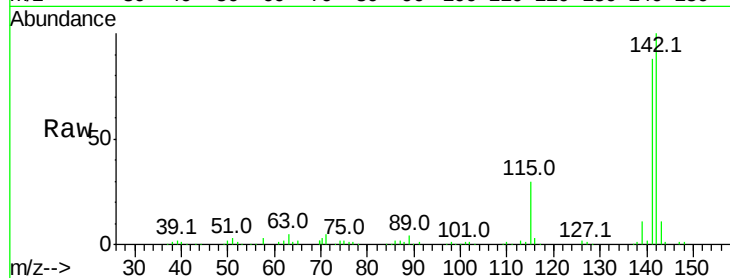
Tot Ion:142 Resp: 191845

Ion Ratio Lower Upper

142 100

141 87.5 71.0 106.6

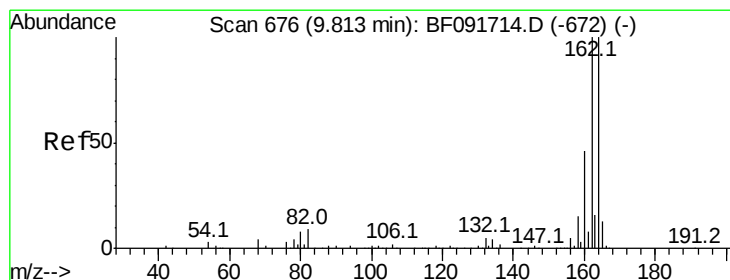
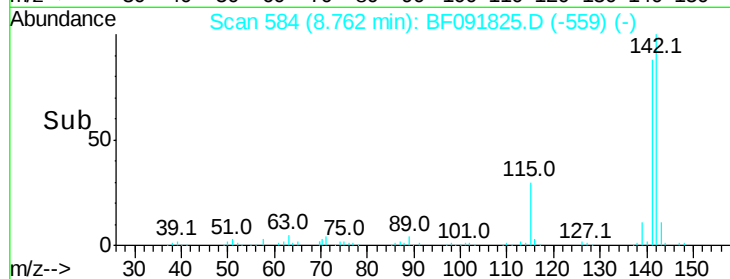
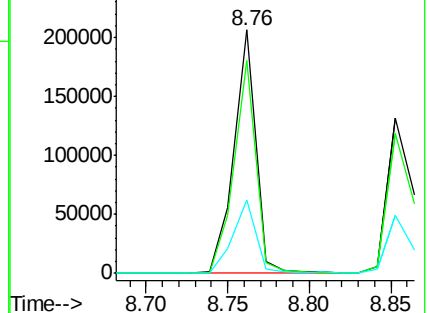
115 29.9 28.3 42.5



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: 9.80 min Scan# 675

Delta R.T. -0.01 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

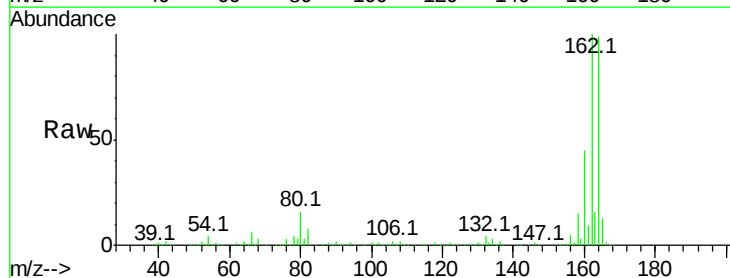
Tgt Ion:164 Resp: 517826

Ion Ratio Lower Upper

164 100

162 100.9 80.2 120.2

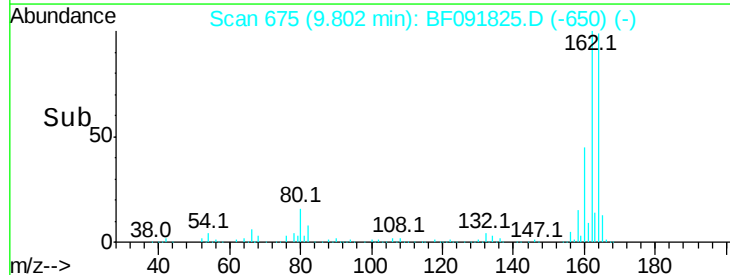
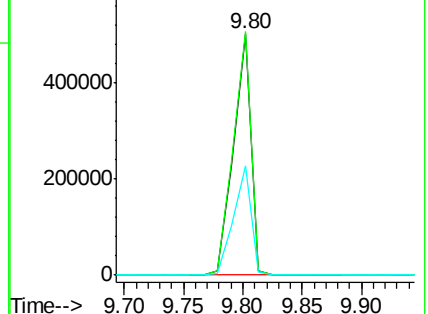
160 45.3 36.9 55.3

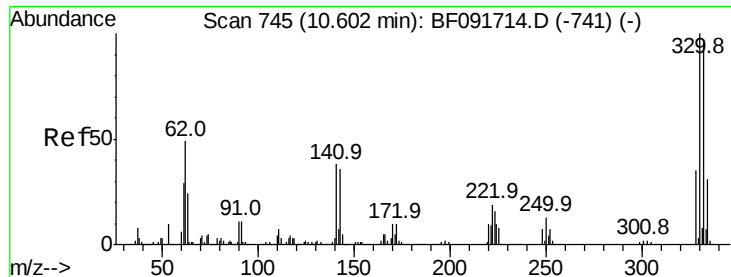


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

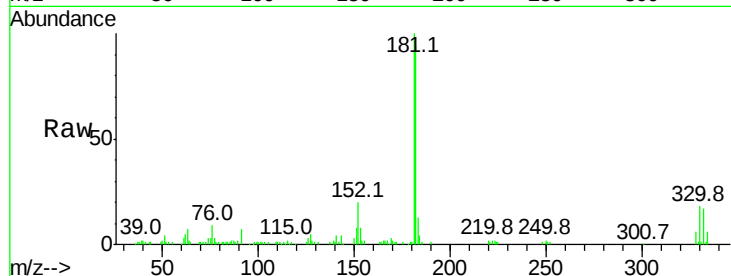




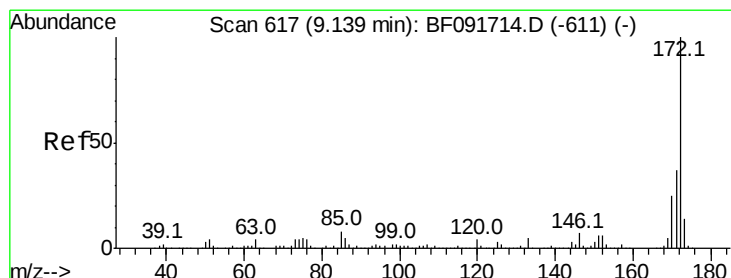
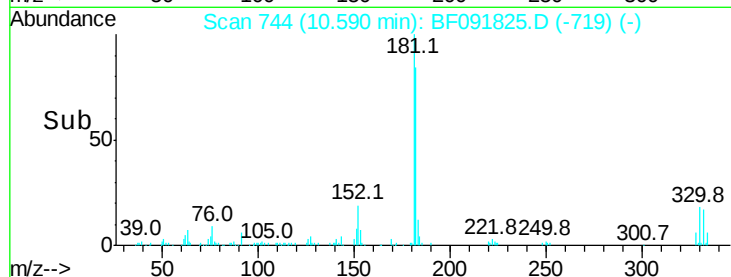
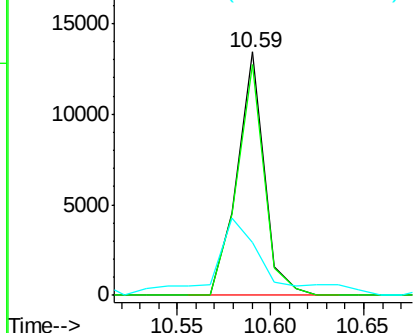
#41
 2,4,6-Tribromophenol
 Concen: 3.11 ng
 RT: 10.59 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BF091825.D
 Acq: 20 Dec 2016 17:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-1-9-10DL

Tot Ion:330 Resp: 13668
 Ion Ratio Lower Upper
 330 100
 332 96.0 77.4 116.2
 141 59.2 34.1 51.1#

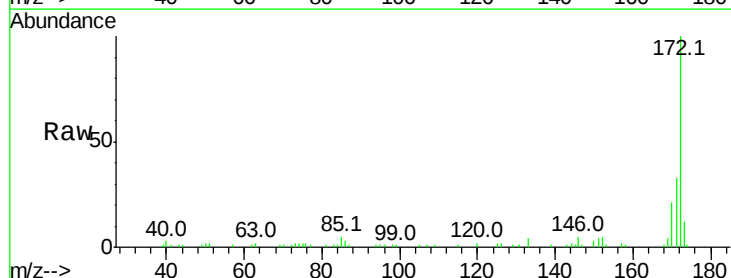


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

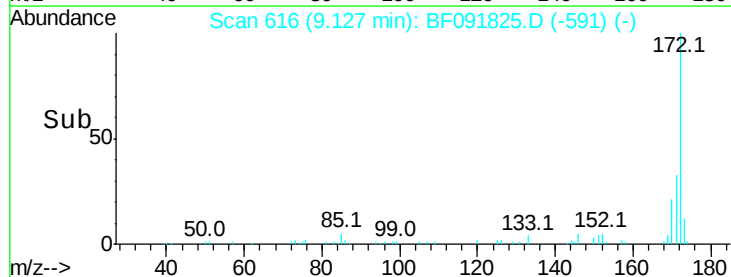
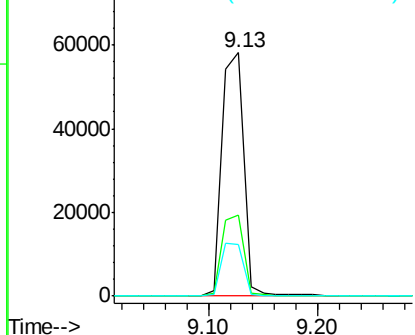


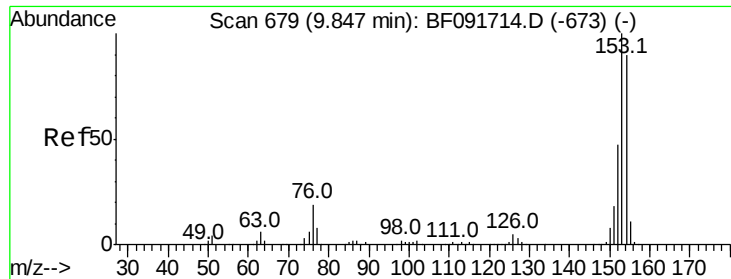
#44
 2-Fluorobiphenyl
 Concen: 3.15 ng
 RT: 9.13 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF091825.D
 Acq: 20 Dec 2016 17:36

Tgt Ion:172 Resp: 81087
 Ion Ratio Lower Upper
 172 100
 171 33.4 29.4 44.0
 170 21.3 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





#51

Acenaphthene

Concen: 10.37 ng

RT: 9.82 min Scan# 677

Delta R.T. -0.02 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Instrument :

BNA_F

ClientSampleId :

SB-1-9-10DL

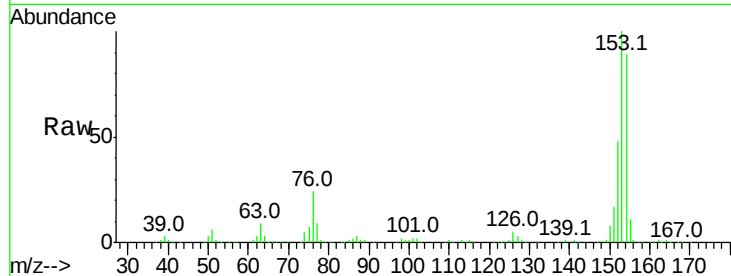
Tot Ion:154 Resp: 305749

Ion Ratio Lower Upper

154 100

153 111.9 88.6 133.0

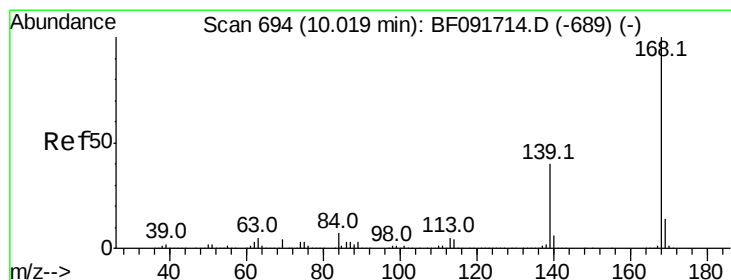
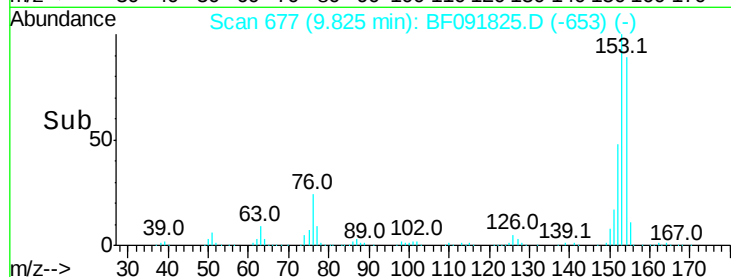
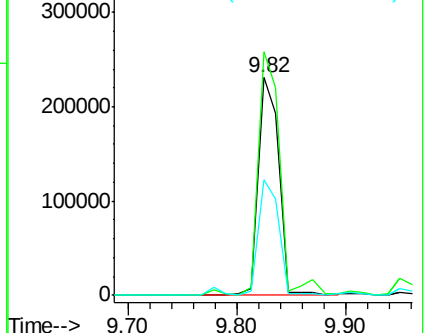
152 53.4 41.6 62.4



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



#54

Dibenzofuran

Concen: 8.94 ng

RT: 10.00 min Scan# 692

Delta R.T. -0.02 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

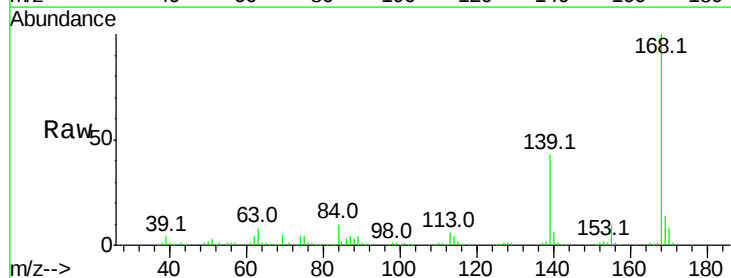
Tgt Ion:168 Resp: 313425

Ion Ratio Lower Upper

168 100

139 43.3 32.6 49.0

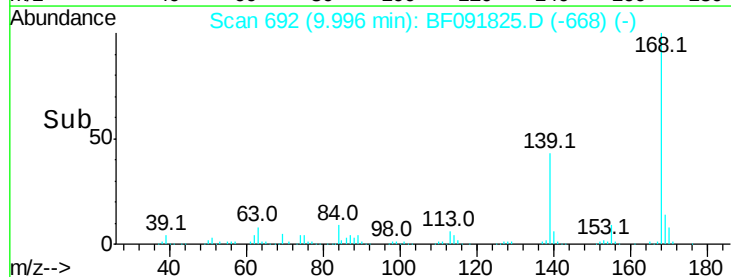
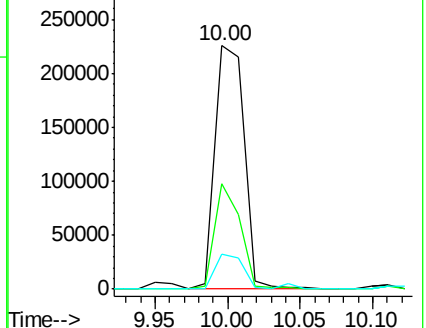
169 14.5 11.3 16.9

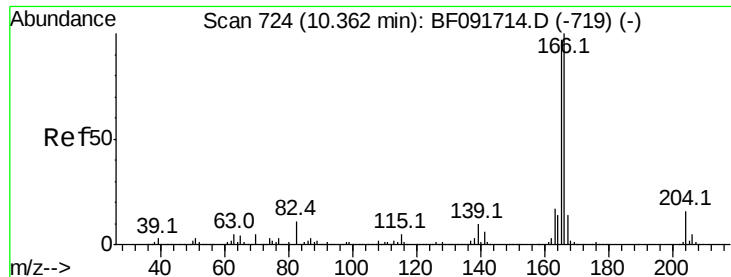


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 17.03 ng

RT: 10.34 min Scan# 722

Delta R.T. -0.02 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Instrument :

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SB-1-9-10DL

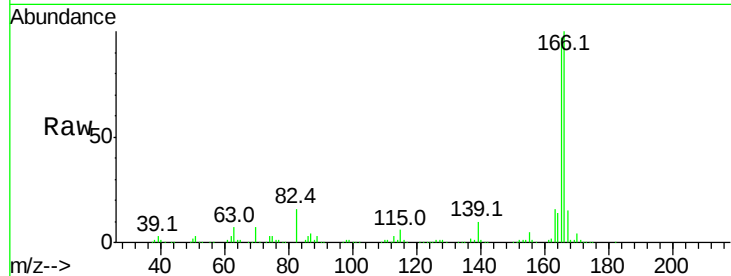
Tot Ion:166 Resp: 464039

Ion Ratio Lower Upper

166 100

165 97.5 77.8 116.8

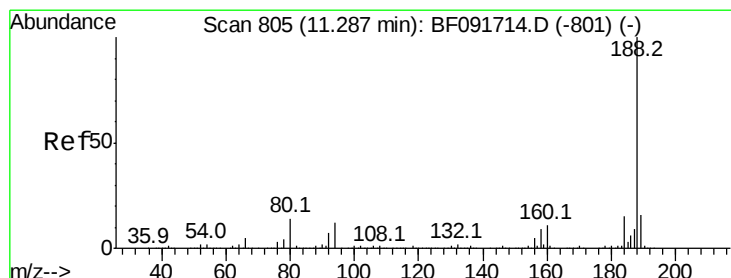
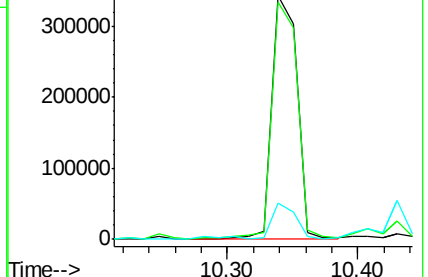
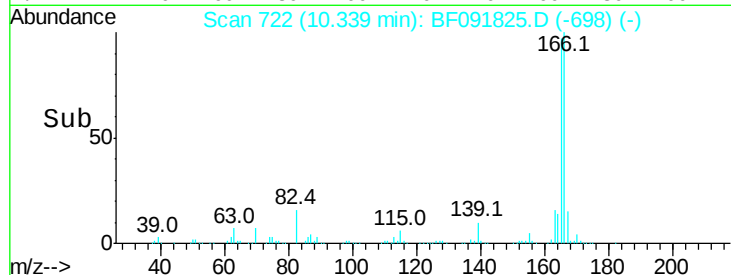
167 15.0 10.8 16.2



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: 11.29 min Scan# 805

Delta R.T. 0.00 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

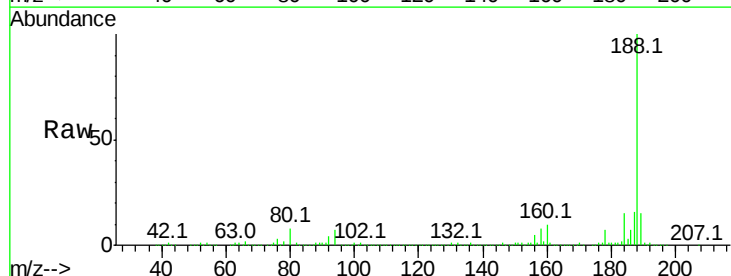
Tgt Ion:188 Resp: 801534

Ion Ratio Lower Upper

188 100

94 7.3 10.0 15.0#

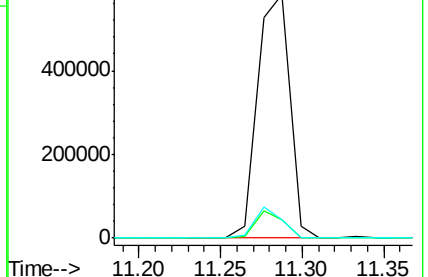
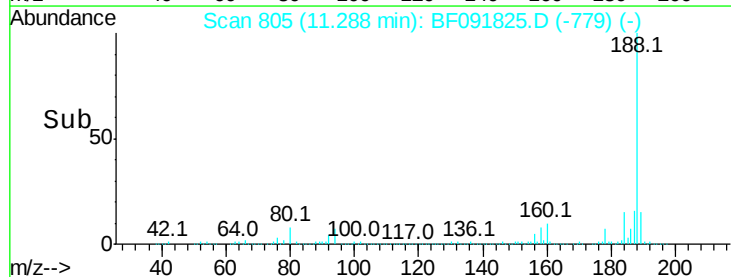
80 7.6 11.2 16.8#

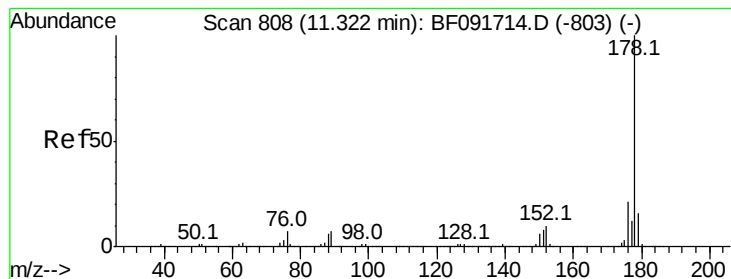


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 63.74 ng

RT: 11.31 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Instrument :

BNA_F

ClientSampleId :

SB-1-9-10DL

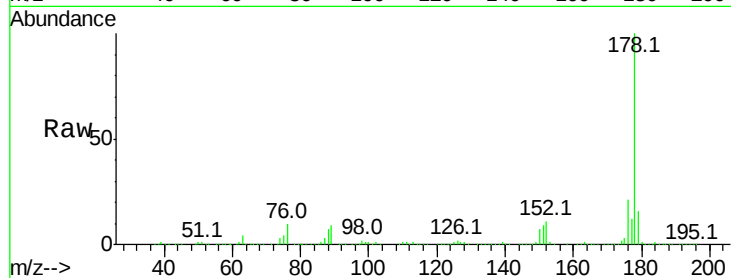
Tot Ion:178 Resp: 2552950

Ion Ratio Lower Upper

178 100

176 20.8 16.6 25.0

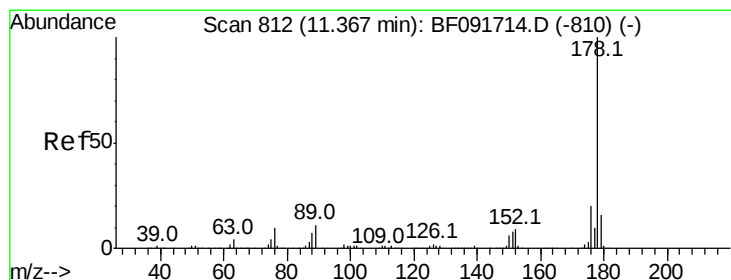
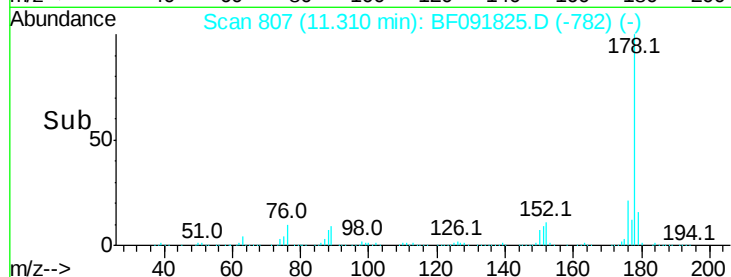
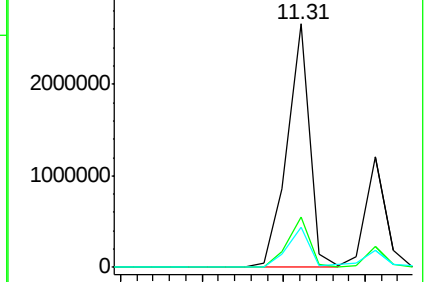
179 16.4 12.8 19.2



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



#71

Anthracene

Concen: 25.21 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.01 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

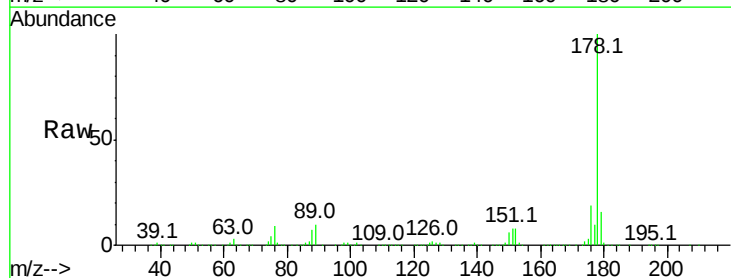
Tgt Ion:178 Resp: 1069288

Ion Ratio Lower Upper

178 100

176 19.4 15.9 23.9

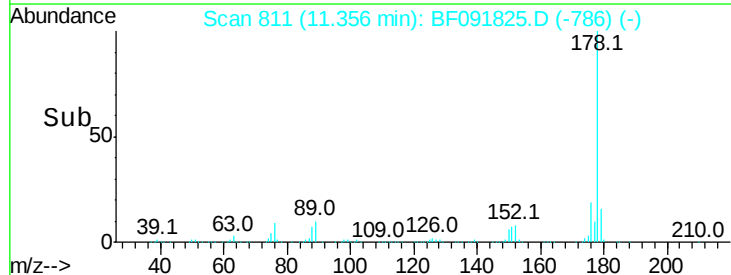
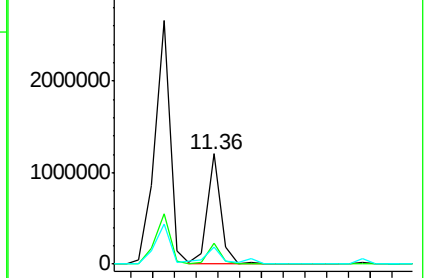
179 15.9 13.2 19.8

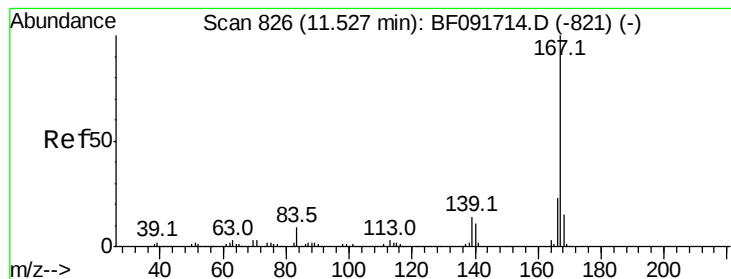


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 6.38 ng

RT: 11.52 min Scan# 825

Delta R.T. -0.01 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Instrument :

BNA_F

ClientSampleId :

SB-1-9-10DL

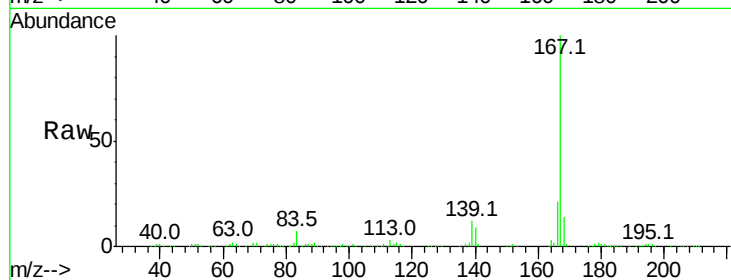
Tot Ion:167 Resp: 236586

Ion Ratio Lower Upper

167 100

166 20.9 18.2 27.2

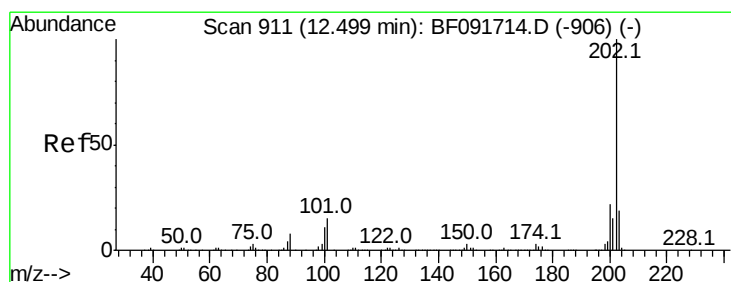
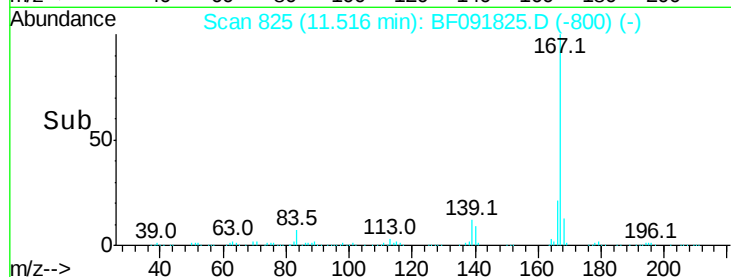
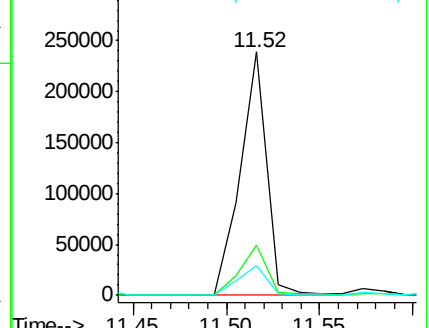
139 12.1 11.4 17.2



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 61.36 ng

RT: 12.50 min Scan# 911

Delta R.T. 0.00 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

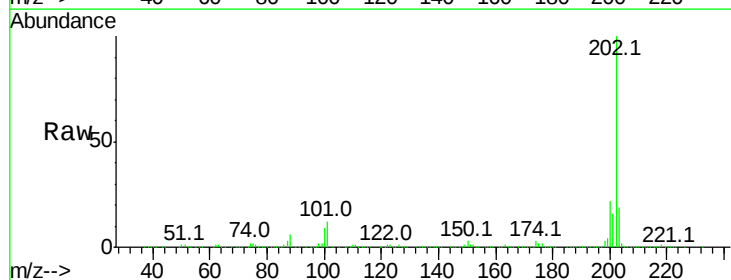
Tgt Ion:202 Resp: 2566518

Ion Ratio Lower Upper

202 100

101 12.0 0.0 34.6

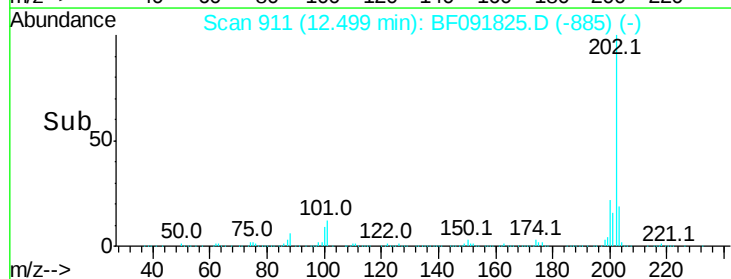
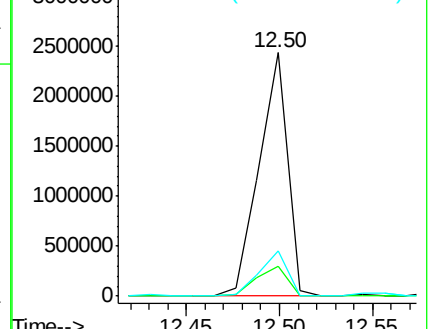
203 18.8 0.0 38.7

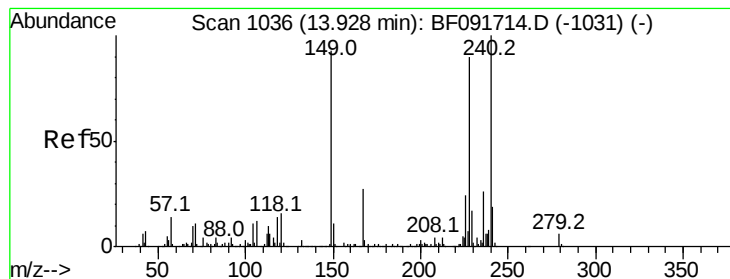


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.92 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Instrument :

BNA_F

ClientSampleId :

SB-1-9-10DL

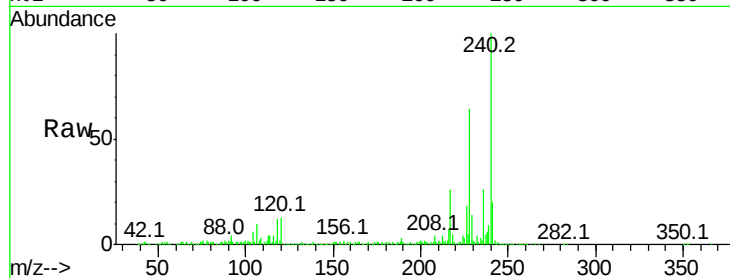
Tot Ion:240 Resp: 530291

Ion Ratio Lower Upper

240 100

120 13.5 12.9 19.3

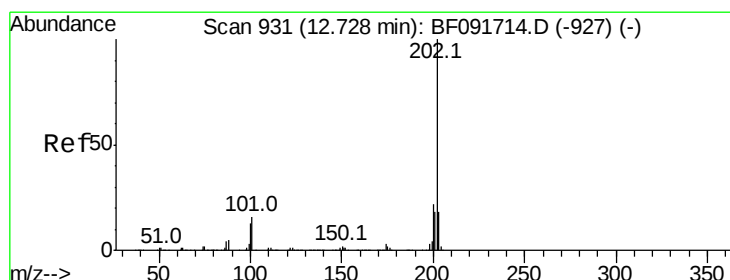
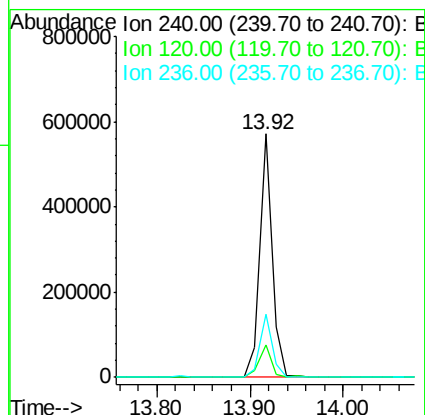
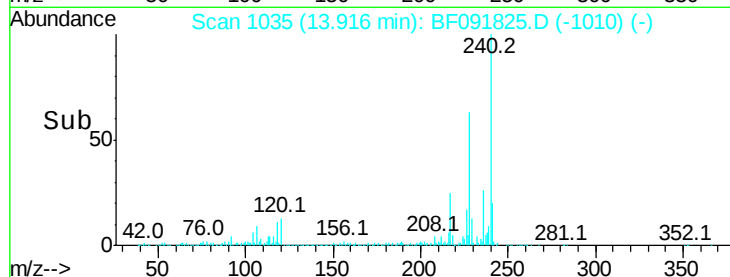
236 25.8 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 60.56 ng

RT: 12.73 min Scan# 931

Delta R.T. 0.00 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

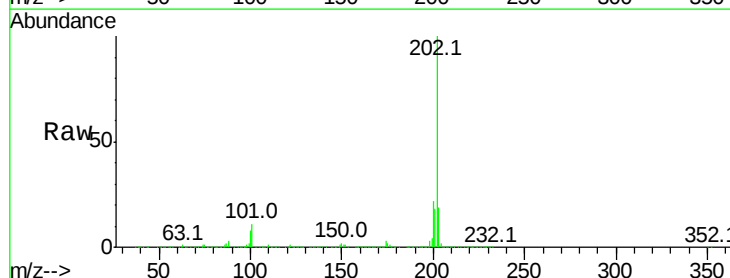
Tgt Ion:202 Resp: 2319265

Ion Ratio Lower Upper

202 100

200 22.3 17.7 26.5

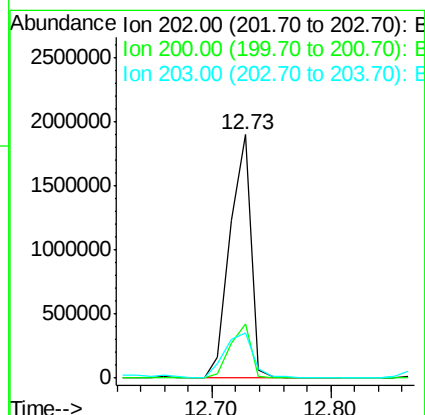
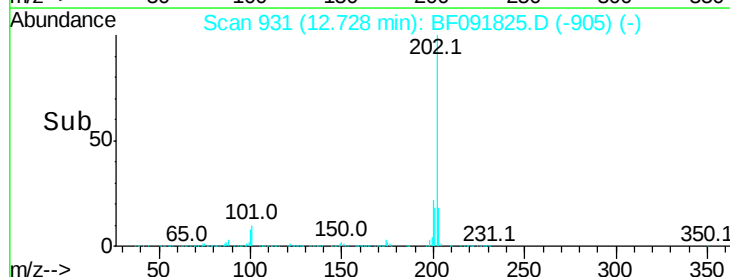
203 18.8 14.7 22.1

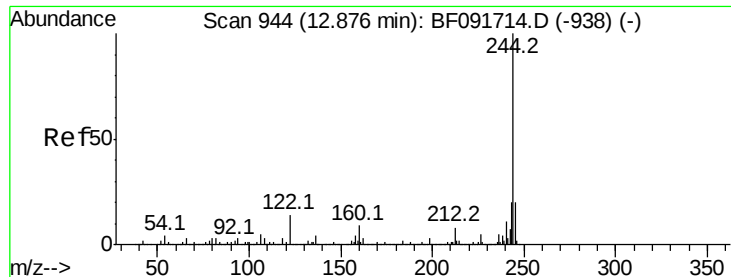


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

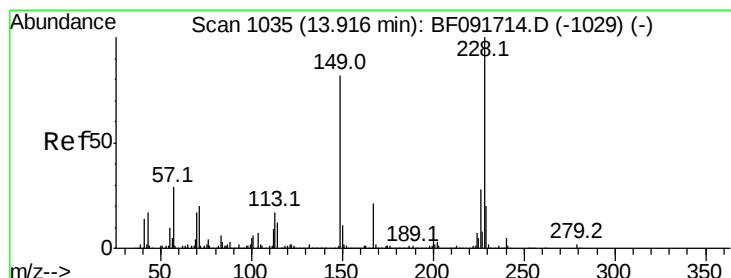
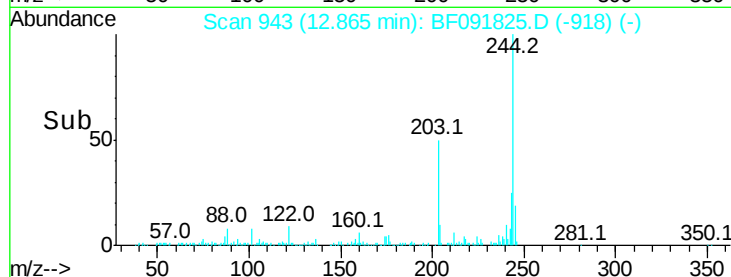
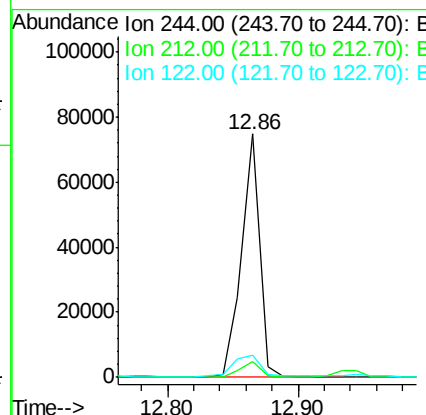
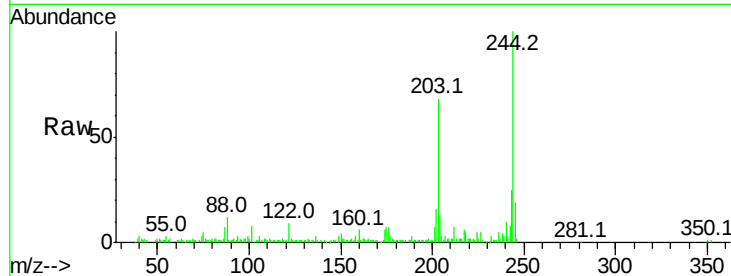




#78
 Terphenyl-d14
 Concen: 3.41 ng
 RT: 12.86 min Scan# 943
 Delta R.T. -0.01 min
 Lab File: BF091825.D
 Acq: 20 Dec 2016 17:36

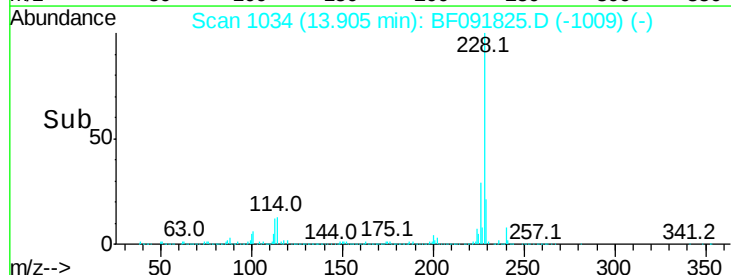
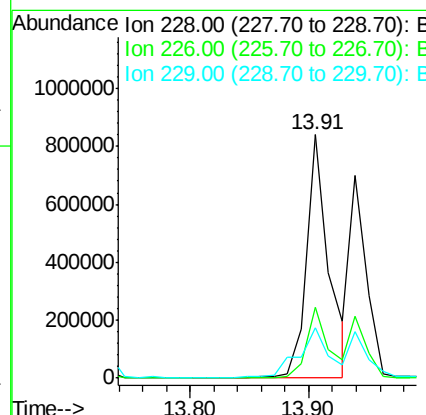
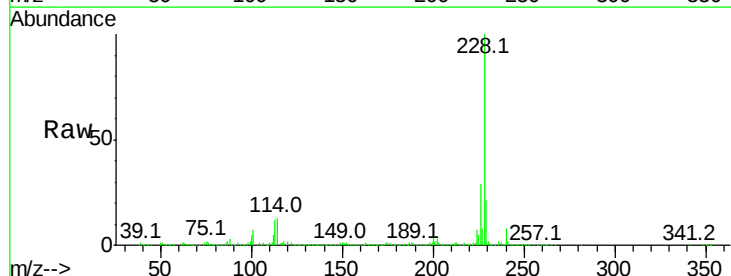
Instrument :
 BNA_F
 ClientSampleId :
 SB-1-9-10DL

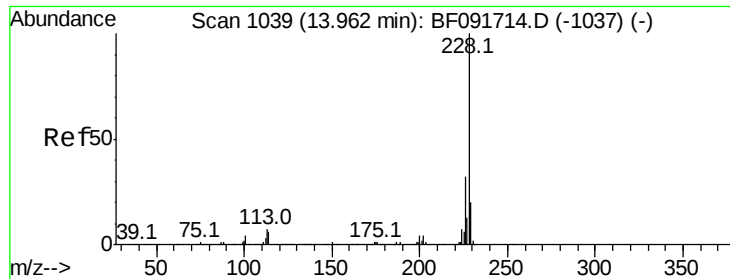
Tot Ion:244 Resp: 71526
 Ion Ratio Lower Upper
 244 100
 212 6.5 6.2 9.2
 122 9.3 11.4 17.2#



#80
 Benzo(a)anthracene
 Concen: 35.93 ng
 RT: 13.91 min Scan# 1034
 Delta R.T. -0.01 min
 Lab File: BF091825.D
 Acq: 20 Dec 2016 17:36

Tgt Ion:228 Resp: 1089774
 Ion Ratio Lower Upper
 228 100
 226 28.9 22.4 33.6
 229 20.9 16.2 24.4





#82

Chrysene

Concen: 22.09 ng/mL

RT: 13.94 min Scan# 1037

Delta R.T. -0.02 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Instrument:

BNA_F

ClientSampleID:

SB-1-9-10DL

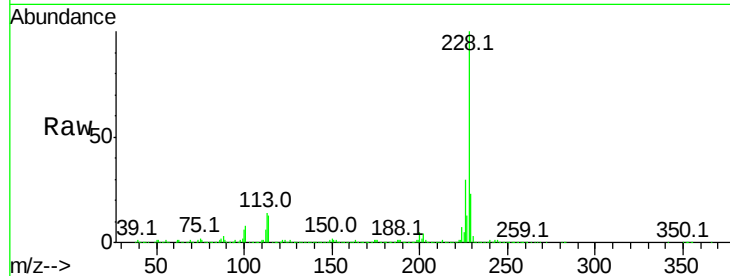
Tot Ion: 228 Resp: 694488

Ion Ratio Lower Upper

228 100

226 30.2 25.4 38.0

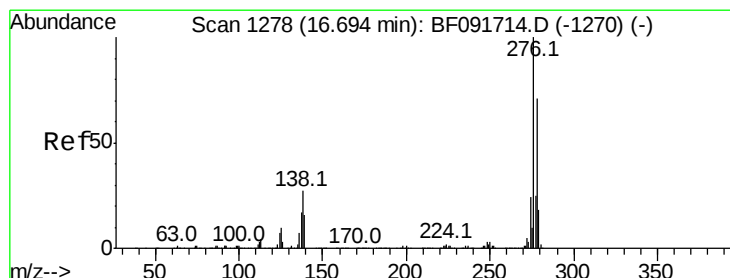
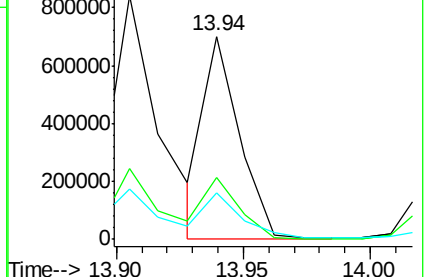
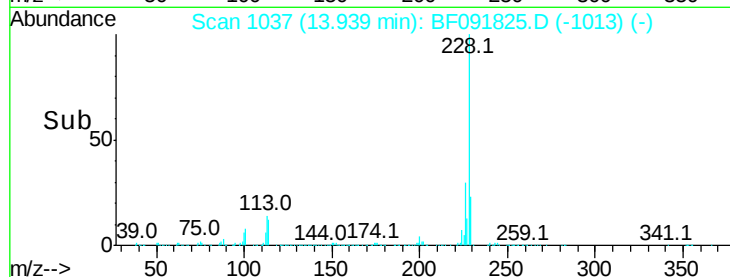
229 23.0 16.2 24.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 12.78 ng/mL

RT: 16.67 min Scan# 1276

Delta R.T. -0.02 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

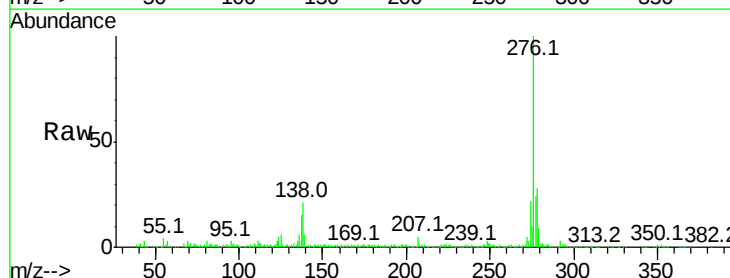
Tgt Ion: 276 Resp: 395114

Ion Ratio Lower Upper

276 100

138 23.6 21.8 32.6

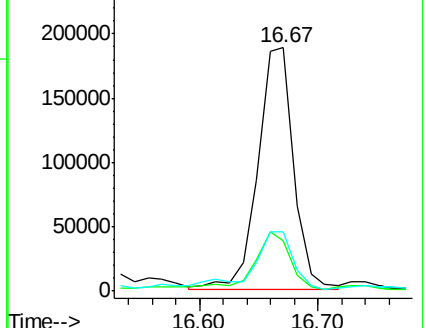
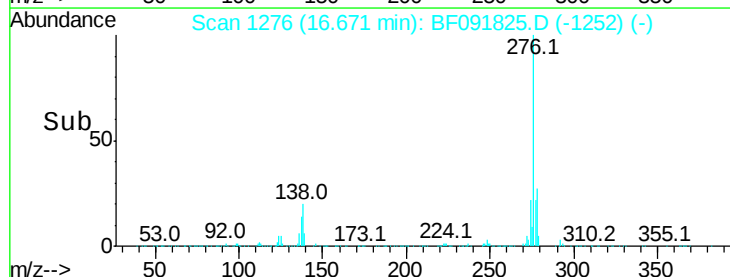
277 28.3 20.2 30.4

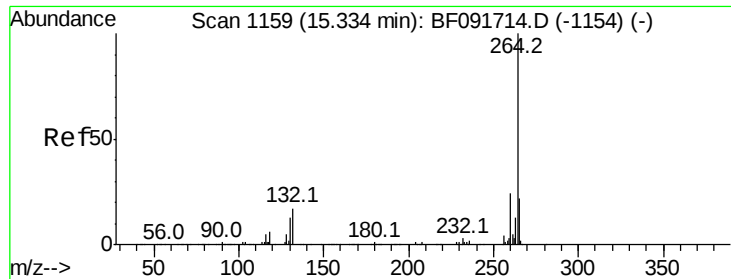


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

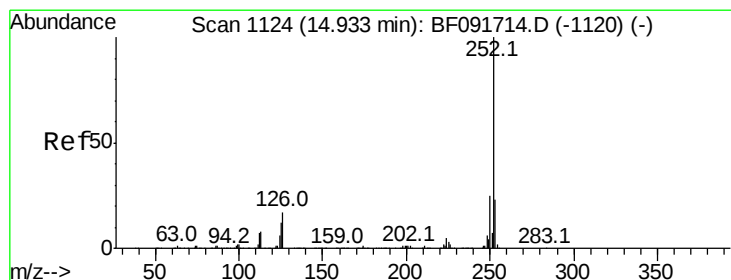
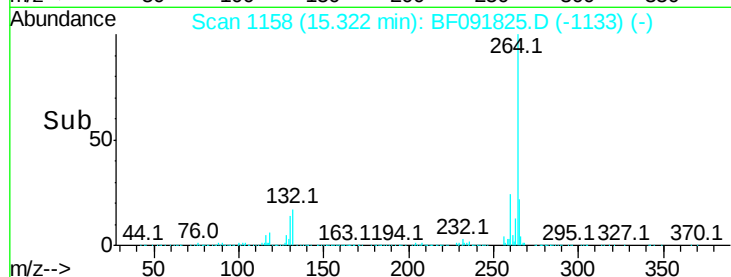
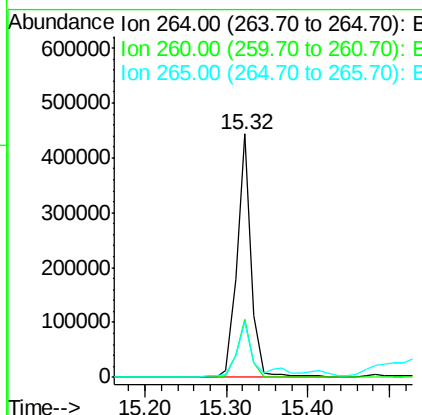
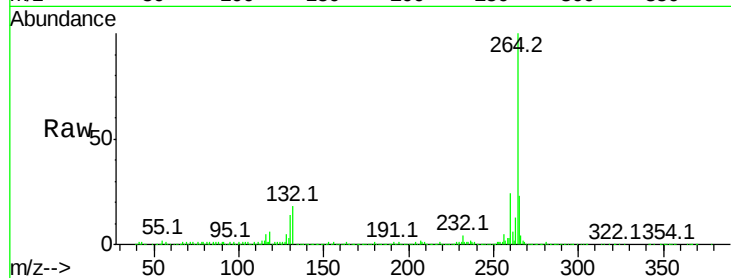




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.32 min Scan# 1158
Delta R.T. -0.01 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

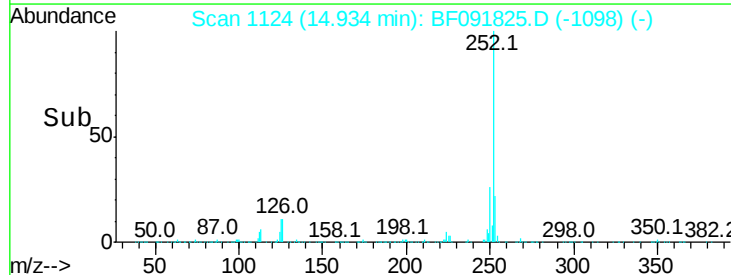
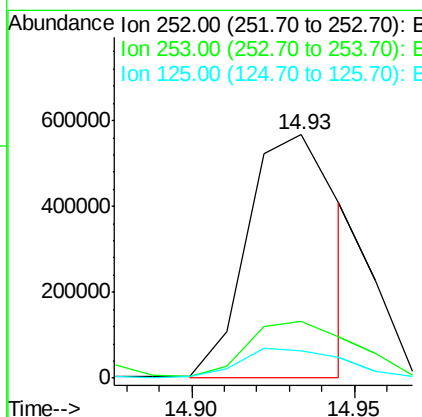
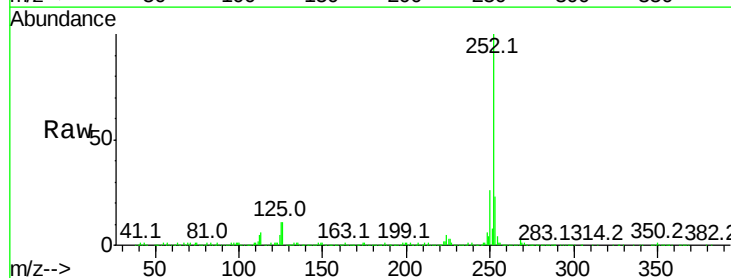
Instrument :
BNA_F
ClientSampleId :
SB-1-9-10DL

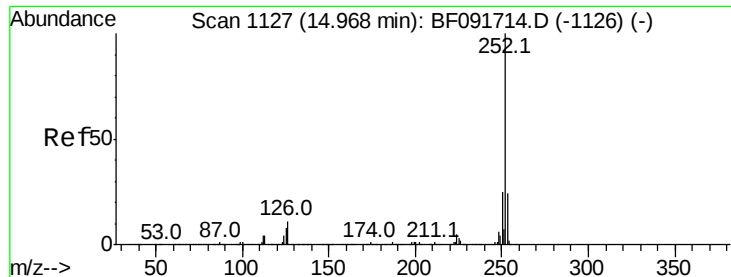
Tot Ion:264 Resp: 528974
Ion Ratio Lower Upper
264 100
260 24.0 19.2 28.8
265 22.7 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 32.89 ng m
RT: 14.93 min Scan# 1124
Delta R.T. 0.00 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

Tgt Ion:252 Resp: 1103311
Ion Ratio Lower Upper
252 100
253 23.1 18.2 27.4
125 11.4 9.8 14.6

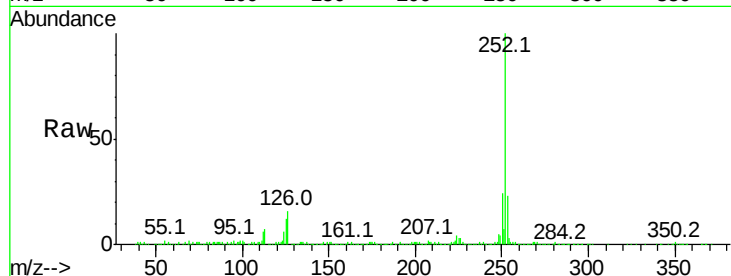




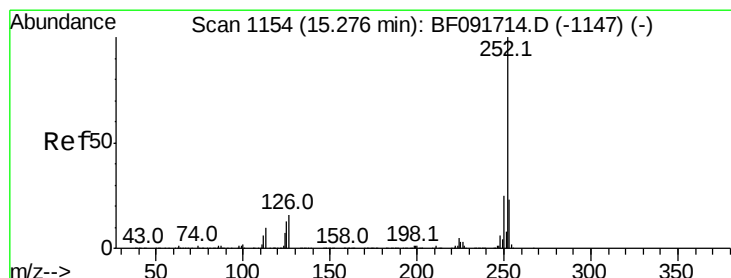
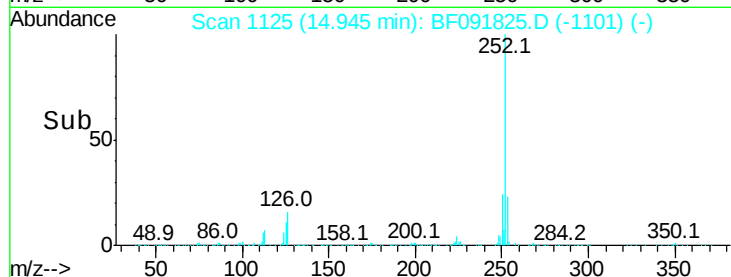
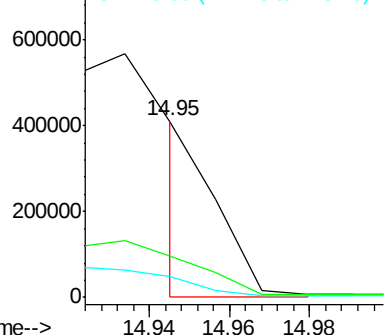
#88
Benzo(k)fluoranthene
Concen: 7.29 ng m
RT: 14.95 min Scan# 1125
Delta R.T. -0.02 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

Instrument :
BNA_F
ClientSampleId :
SB-1-9-10DL

Tot Ion:252 Resp: 171636
Ion Ratio Lower Upper
252 100
253 23.2 18.5 27.7
125 11.8 8.9 13.3

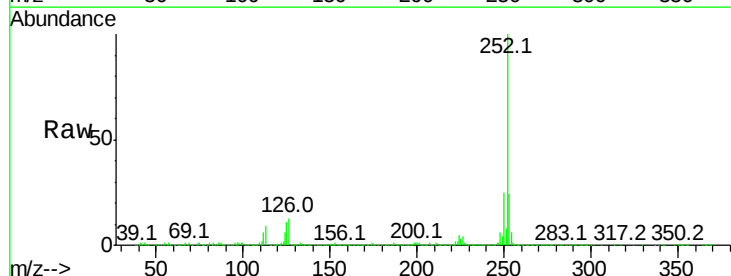


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

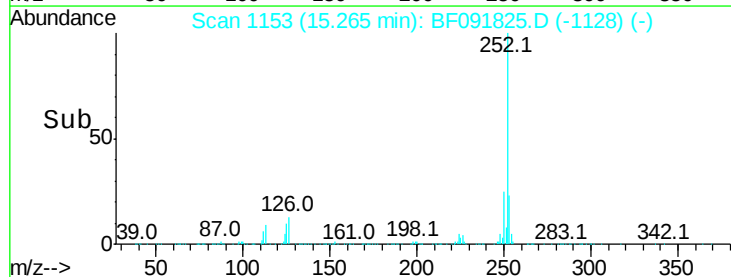
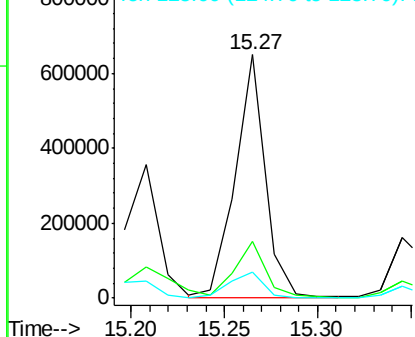


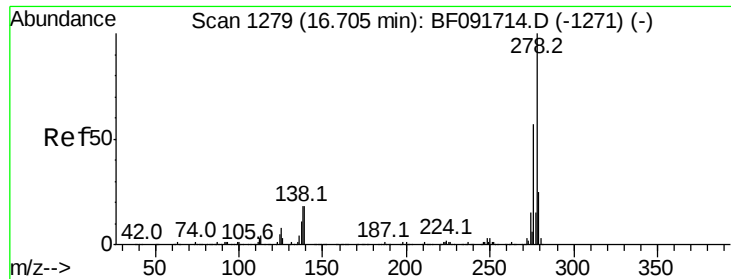
#89
Benzo(a)pyrene
Concen: 25.15 ng
RT: 15.27 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

Tgt Ion:252 Resp: 724022
Ion Ratio Lower Upper
252 100
253 23.5 18.2 27.2
125 10.7 10.0 15.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 3.93 ng/mL

RT: 16.67 min Scan# 1276

Delta R.T. -0.03 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Instrument :

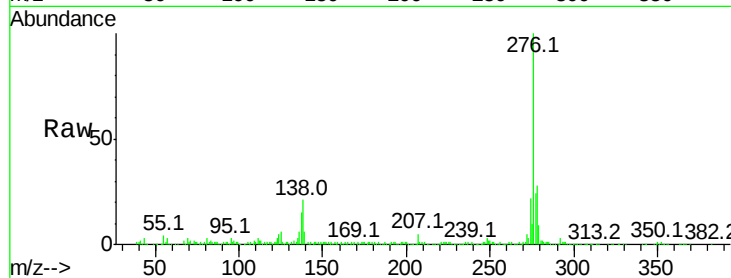
BNA_F

ClientSampleId :

SB-1-9-10DL

Tot Ion:278 Resp: 98534

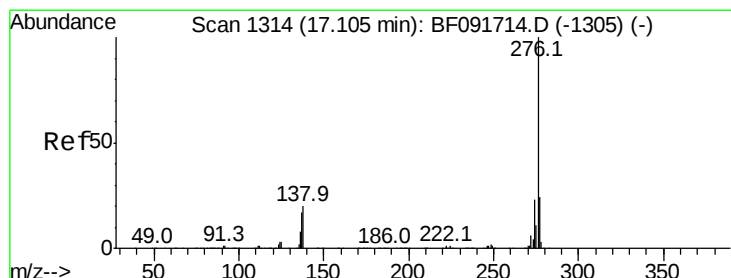
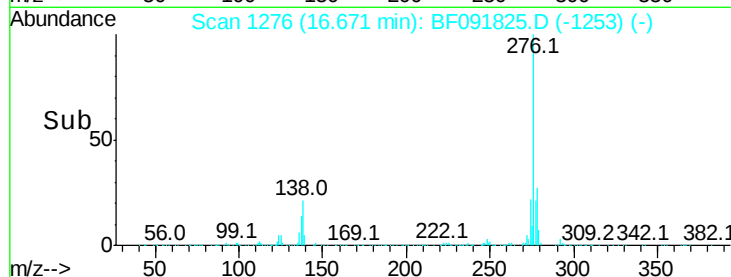
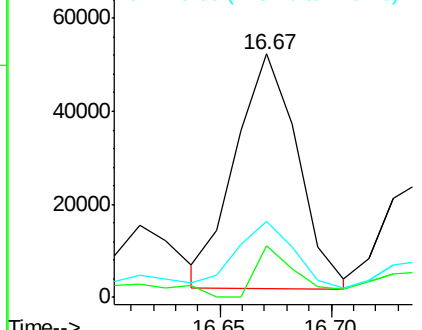
Ion	Ratio	Lower	Upper
278	100		
139	21.1	14.8	22.2
279	31.3	19.8	29.6



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 12.97 ng/mL

RT: 17.07 min Scan# 1311

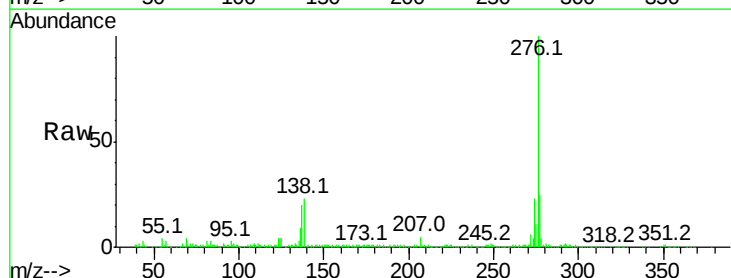
Delta R.T. -0.03 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Tgt Ion:276 Resp: 330802

Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.2	28.8
138	22.7	16.0	24.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

