

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 20 23:47:17 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	R.T.	QIon	Response	Conc	Units	Dev(Min)
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

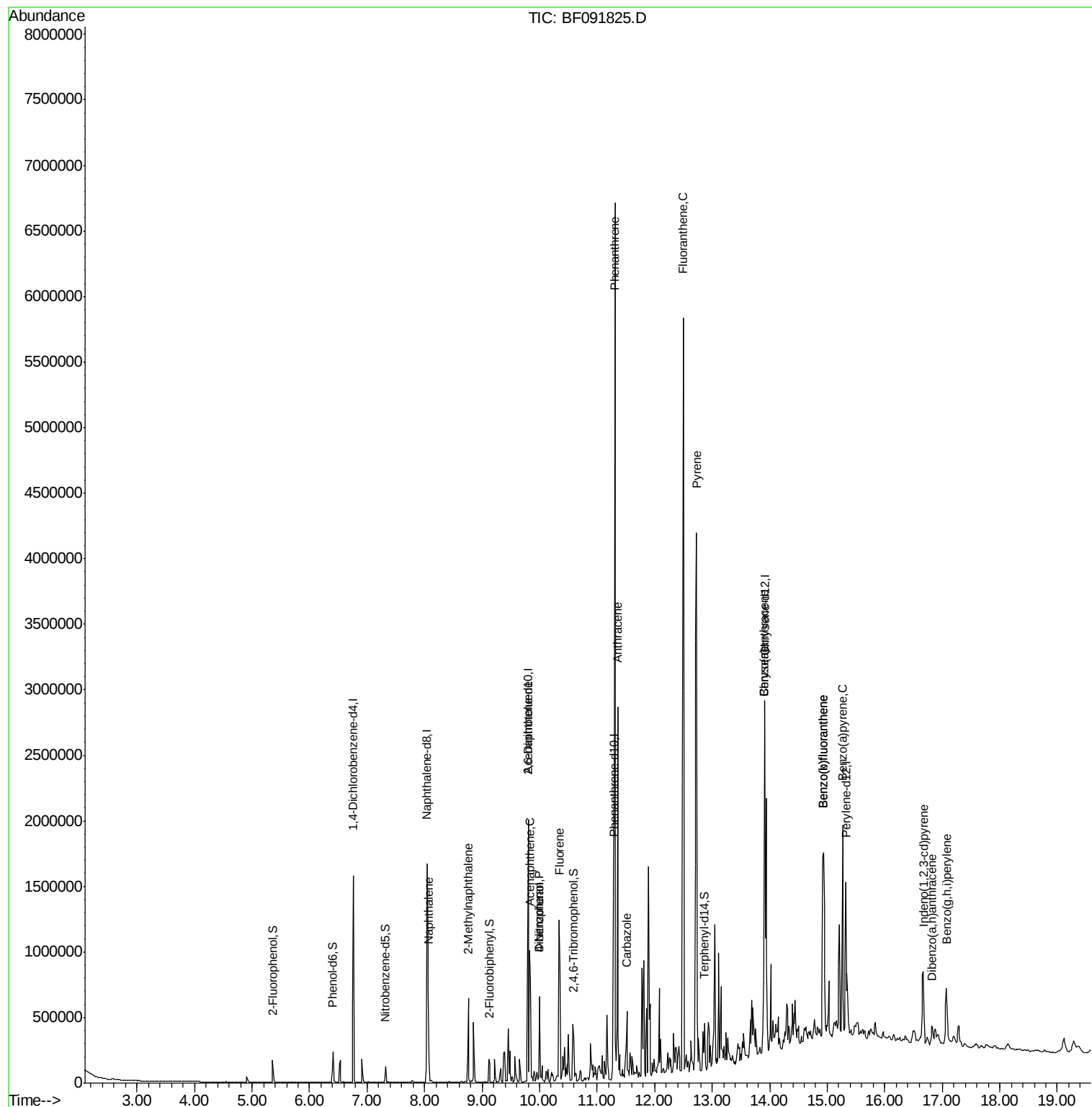
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.53	77	1704	Below Cal		# 72
31) Naphthalene	8.06	128	304998	6.46	ng	99
37) 2-Methylnaphthalene	8.76	142	191845	6.44	ng	96
50) 2,6-Dinitrotoluene	9.80	165	75999	10.25	ng	# 30
51) Acenaphthene	9.82	154	305749	10.37	ng	99
54) Dibenzofuran	10.00	168	313425	8.94	ng	97
55) 4-Nitrophenol	10.00	139	121987	19.02	ng	# 6
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	13.91	228	1089774	34.66	ng	96
85) Indeno(1,2,3-cd)pyrene	16.67	276	395114	12.78	ng	94
87) Benzo(b)fluoranthene	14.93	252	1271861	37.92	ng	99
88) Benzo(k)fluoranthene	14.93	252	1271861	54.04	ng	100
89) Benzo(a)pyrene	15.27	252	724022	25.15	ng	97
90) Dibenz(a,h)anthracene	16.82	278	92238	3.68	ng	93
91) Benzo(g,h,i)perylene	17.07	276	330802	12.97	ng	96

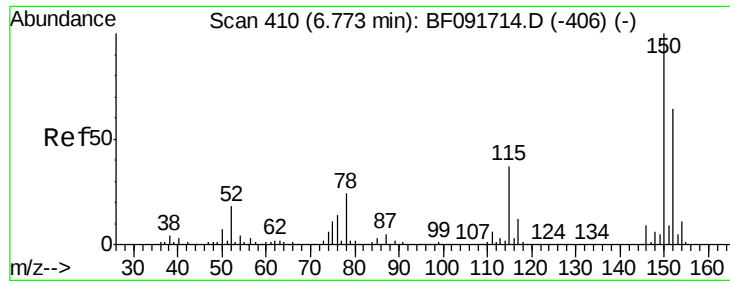
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

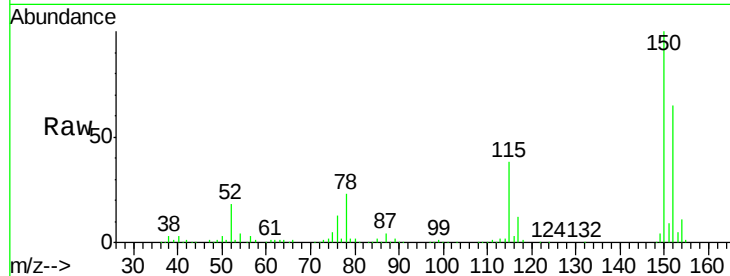
Tgt Ion:152 Resp: 257614

Ion Ratio Lower Upper

152 100

150 154.5 124.9 187.3

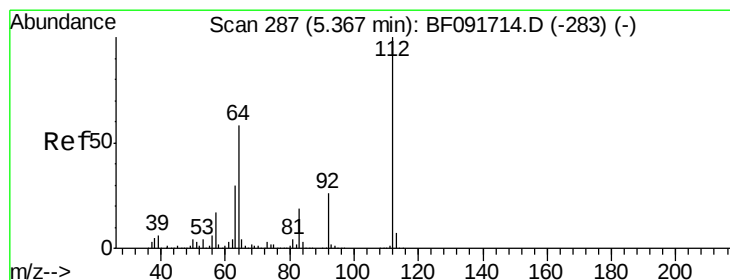
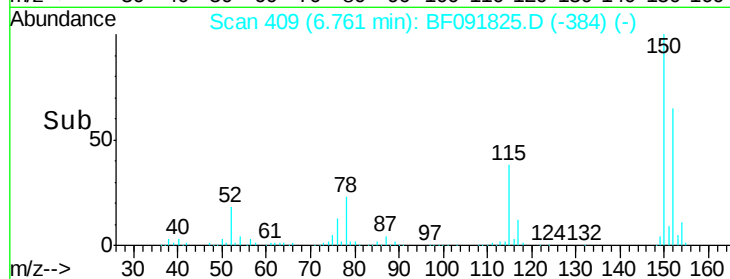
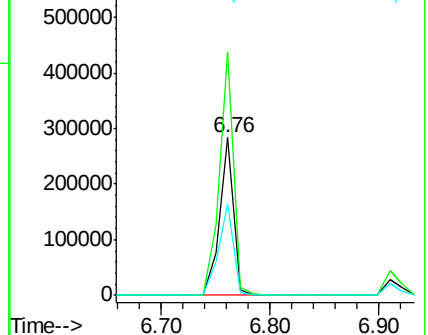
115 58.1 46.0 69.0



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

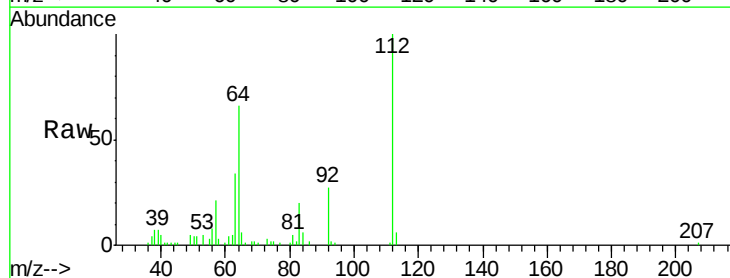
Tgt Ion:112 Resp: 61800

Ion Ratio Lower Upper

112 100

64 65.8 46.1 69.1

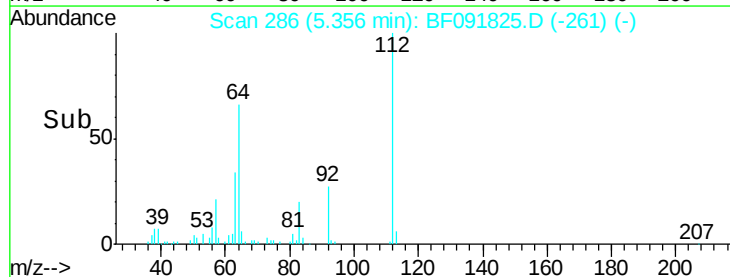
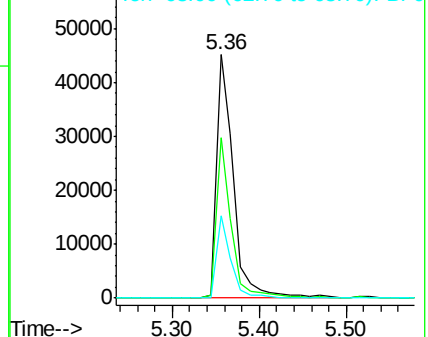
63 33.7 23.8 35.6

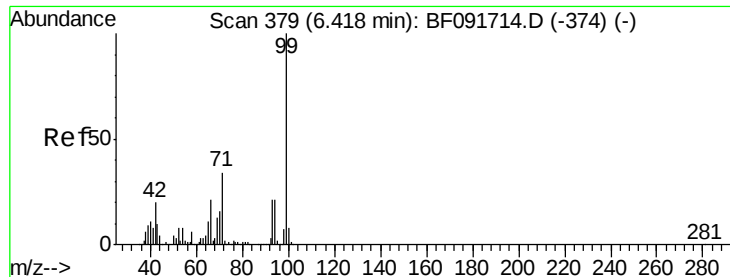


Abundance Ion 112.00 (111.70 to 112.70): E

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

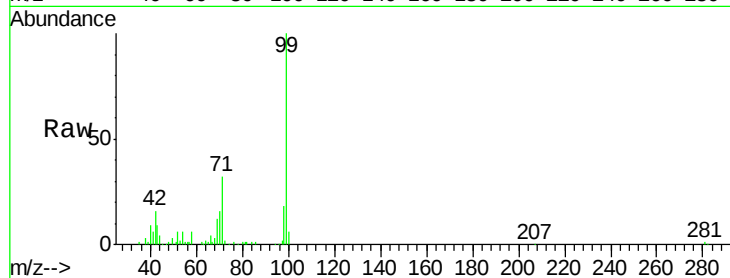
Tgt Ion: 99 Resp: 86073

Ion Ratio Lower Upper

99 100

42 16.0 15.6 23.4

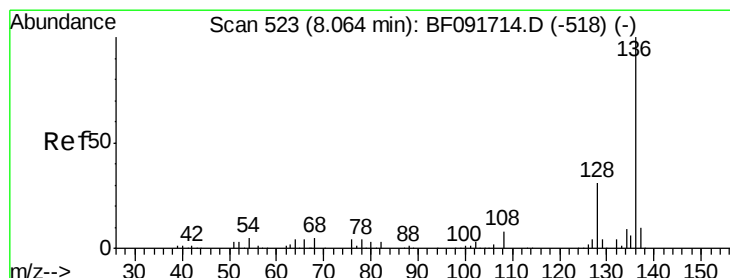
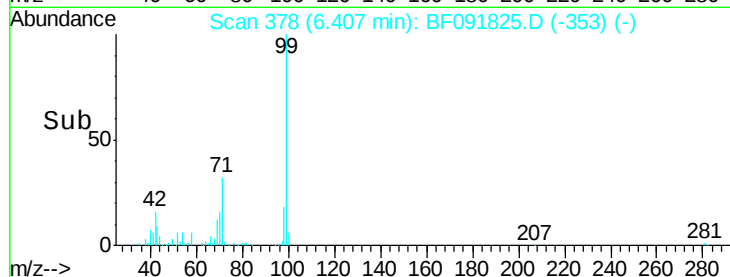
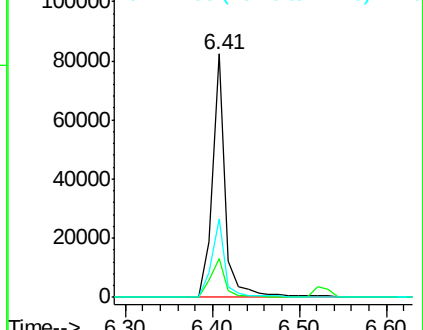
71 32.4 27.5 41.3



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

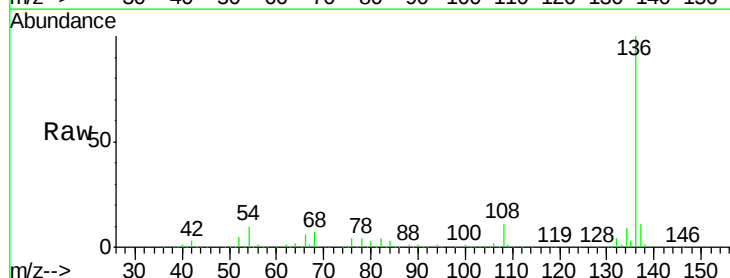
Ion Ratio Lower Upper

136 100

137 11.3 8.4 12.6

54 9.6 4.5 6.7#

68 7.4 3.6 5.4#

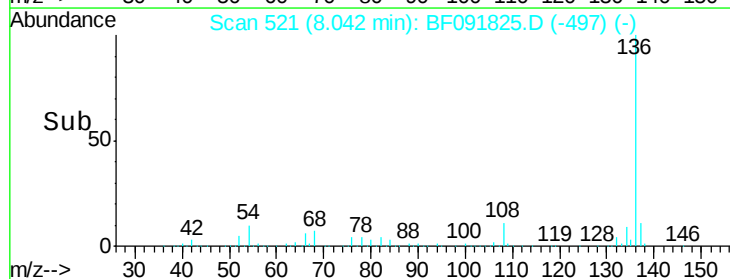
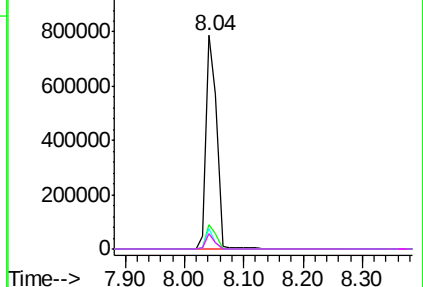


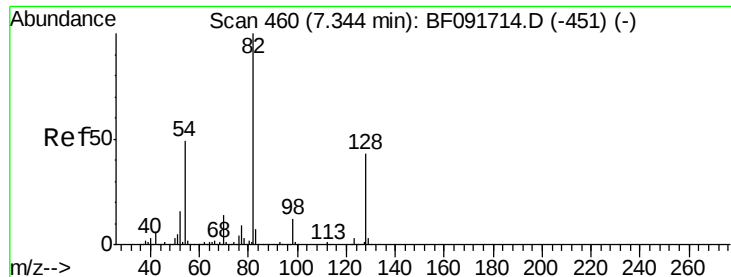
Abundance Ion 136.00 (135.70 to 136.70): E

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

ClientSampled :

SB-1-9-10DL

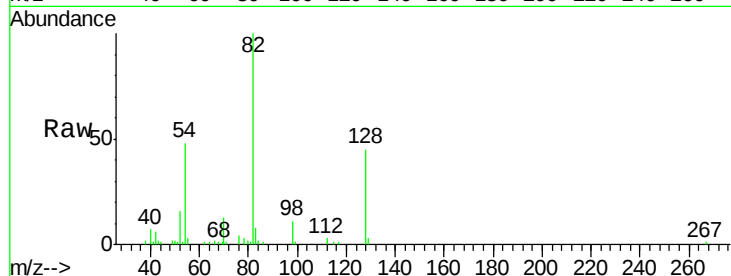
Tgt Ion: 82 Resp: 43107

Ion Ratio Lower Upper

82 100

128 45.2 34.6 52.0

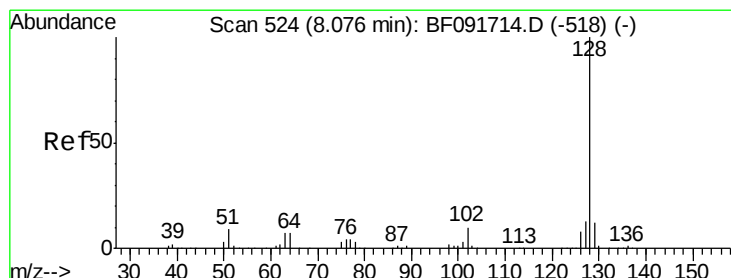
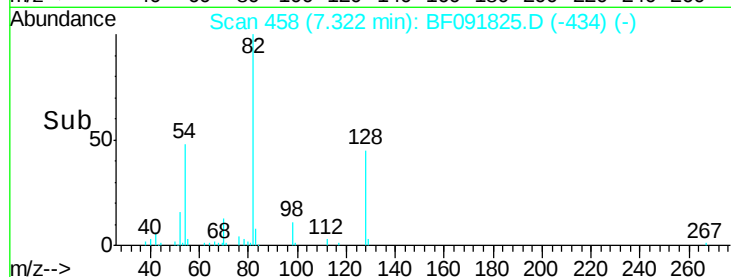
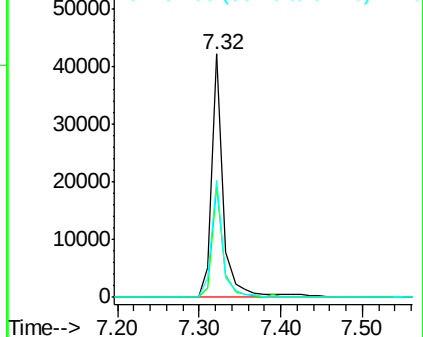
54 48.0 39.5 59.3



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#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

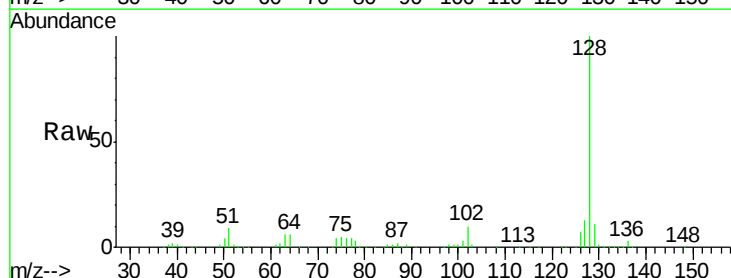
Tgt Ion: 128 Resp: 304998

Ion Ratio Lower Upper

128 100

129 11.4 9.5 14.3

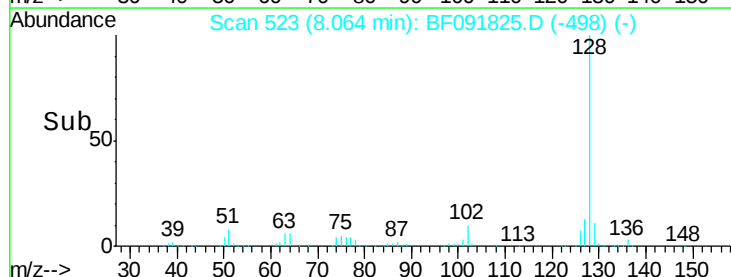
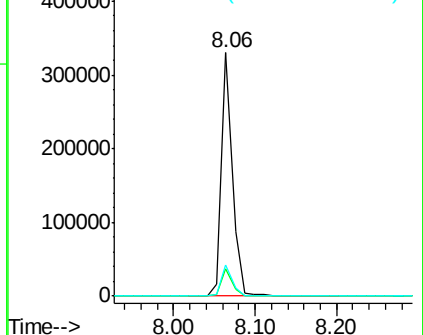
127 13.0 10.8 16.2

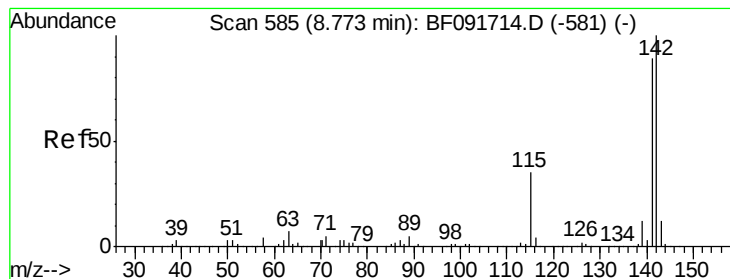


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

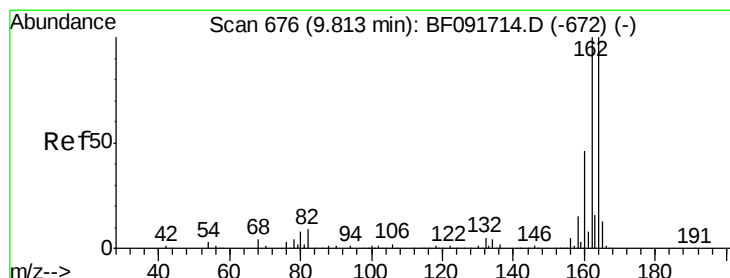
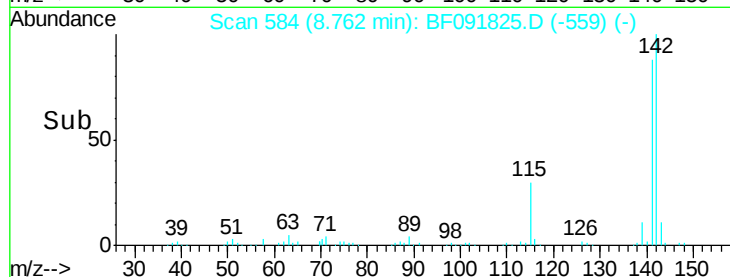
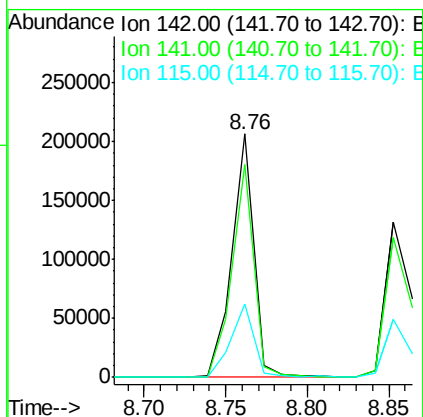
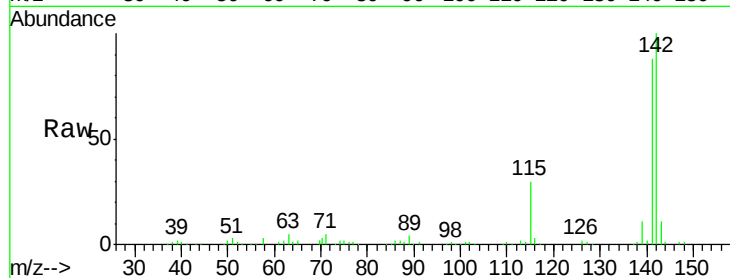




#37
 2-Methylnaphthalene
 Concen: 6.44 ng
 RT: 8.76 min Scan# 584
 Delta R.T. -0.01 min
 Lab File: BF091825.D
 Acq: 20 Dec 2016 17:36

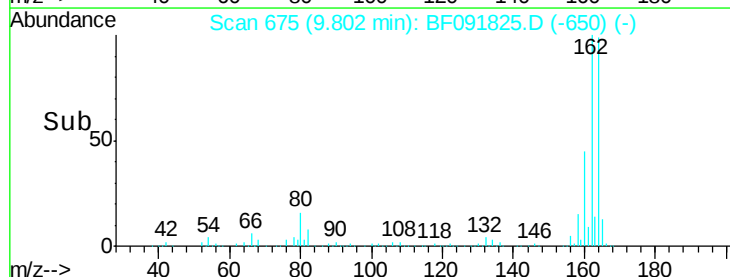
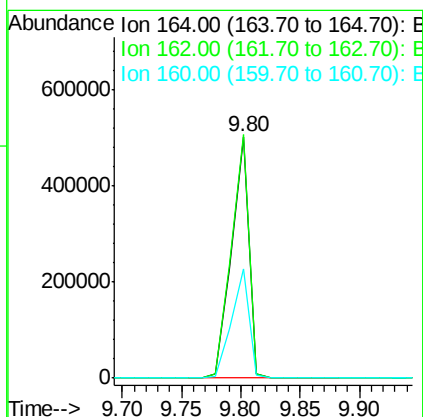
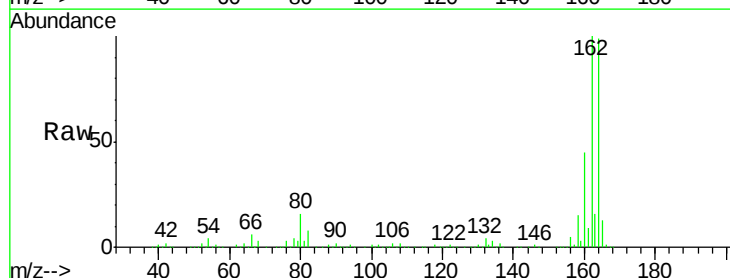
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 SB-1-9-10DL

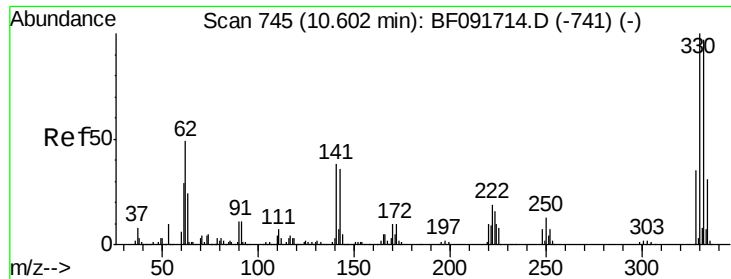
Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.5	71.0	106.6
115	29.9	28.3	42.5



#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	Ratio	Lower	Upper
164	100		
162	100.9	80.2	120.2
160	45.3	36.9	55.3

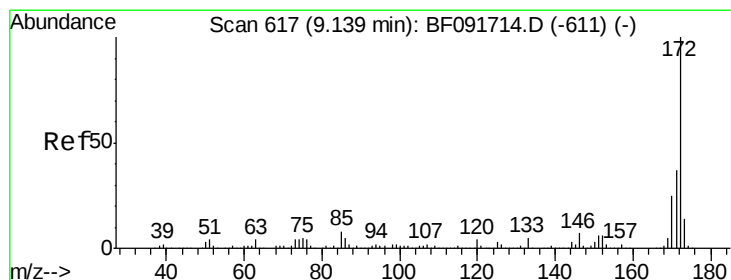
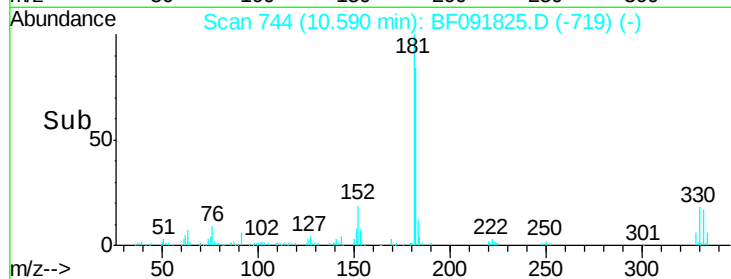
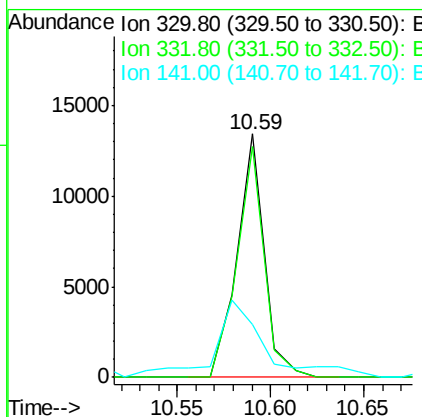
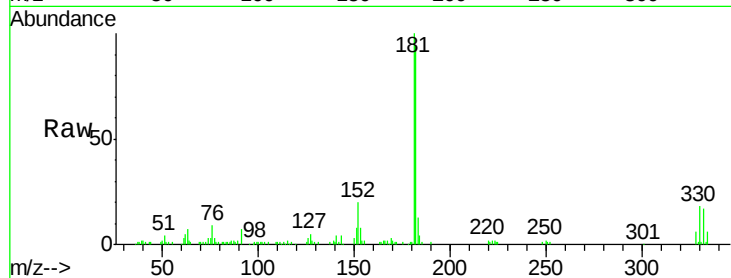




#41
 2,4,6-Tribromophenol
 Concen: 3.11 ng
 RT: 10.59 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BF091825.D
 Acq: 20 Dec 2016 17:36

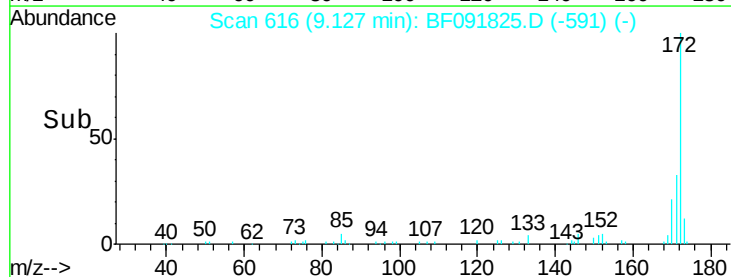
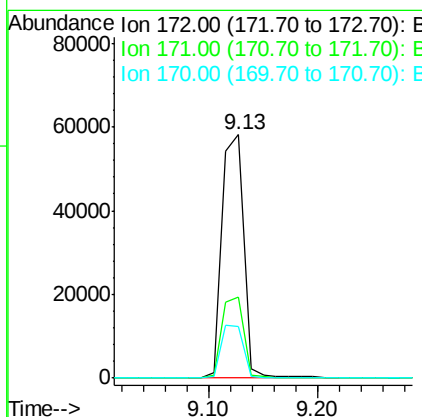
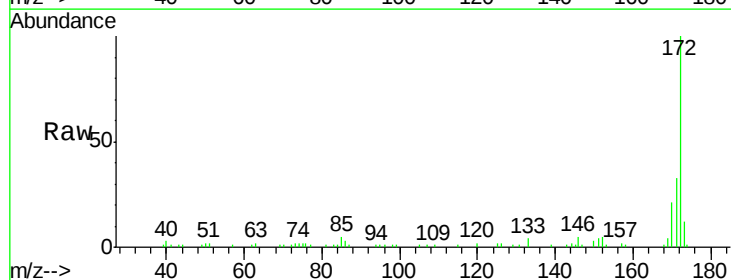
Instrument :
 BNA_F
 ClientSampleId :
 SB-1-9-10DL

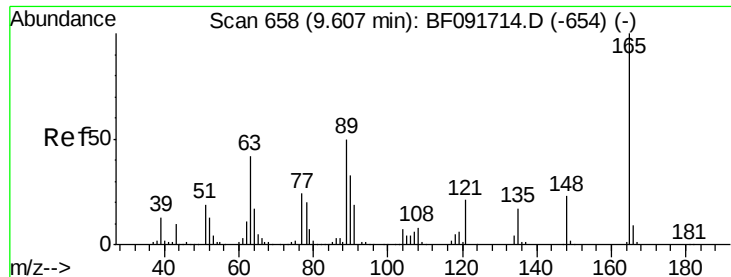
Tgt Ion:330 Resp: 13668
 Ion Ratio Lower Upper
 330 100
 332 96.0 77.4 116.2
 141 59.2 34.1 51.1#



#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

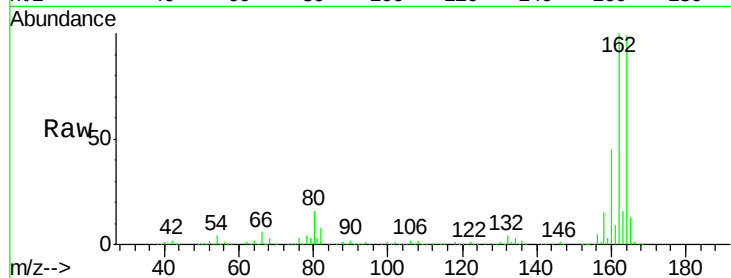




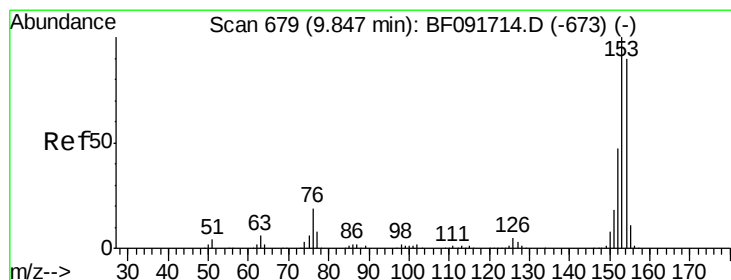
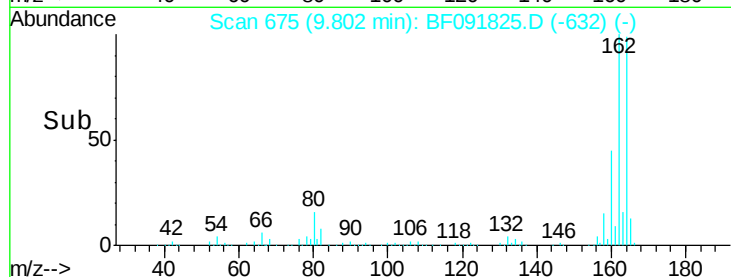
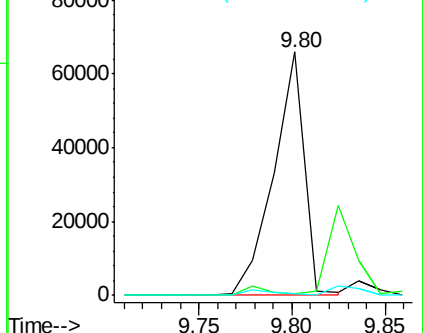
#50
2,6-Dinitrotoluene
Concen: 10.25 ng
RT: 9.80 min Scan# 675
Delta R.T. 0.19 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

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

Tgt Ion:165 Resp: 75999
Ion Ratio Lower Upper
165 100
63 0.6 36.2 54.4#
89 0.7 40.2 60.4#

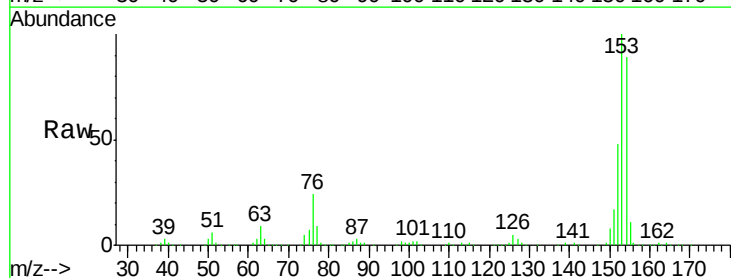


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

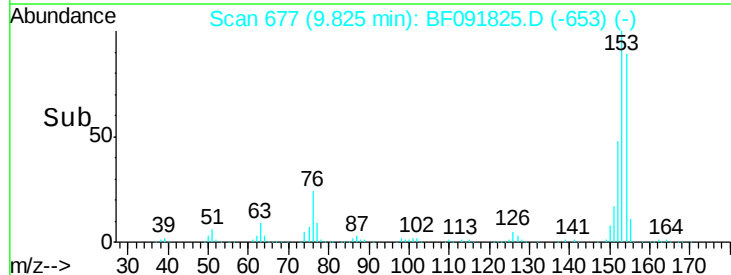
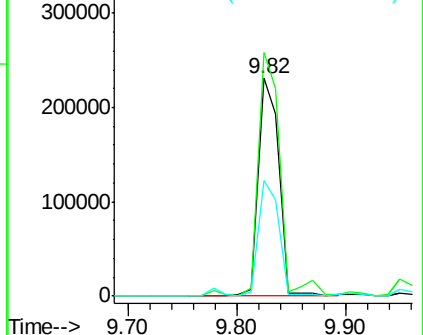


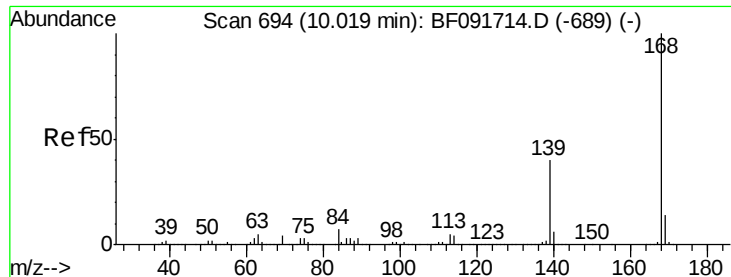
#51
Acenaphthene
Concen: 10.37 ng
RT: 9.82 min Scan# 677
Delta R.T. -0.02 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

Tgt 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

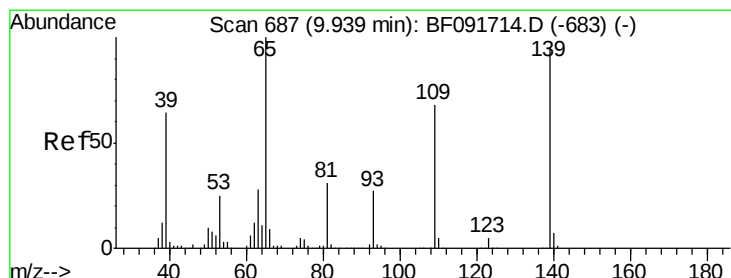
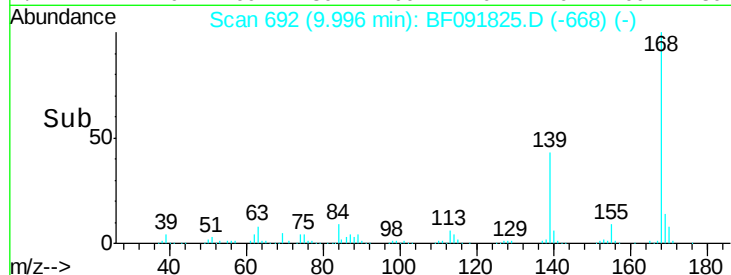
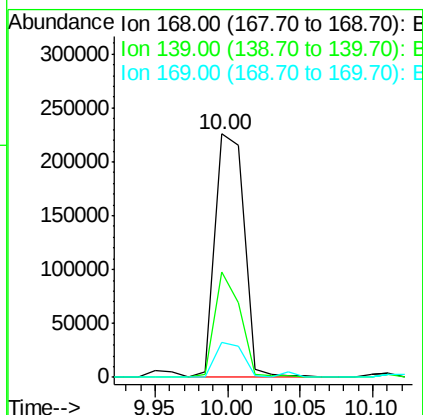
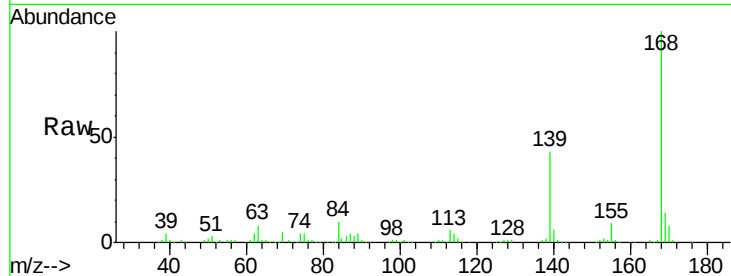




#54
Dibenzenofuran
Concen: 8.94 ng
RT: 10.00 min Scan# 692
Delta R.T. -0.02 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

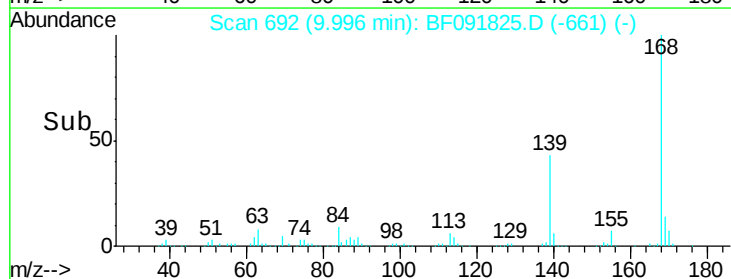
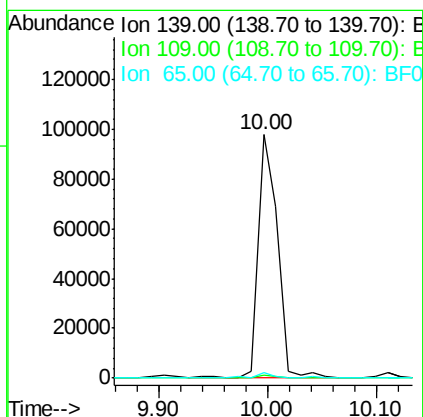
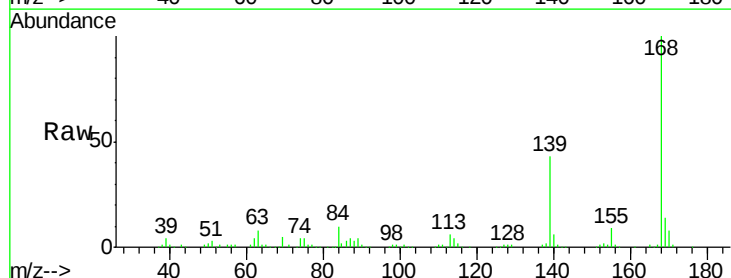
Instrument :
BNA_F
ClientSampleId :
SB-1-9-10DL

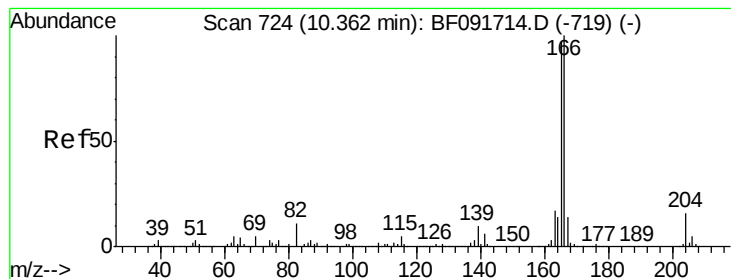
Tgt Ion:168 Resp: 313425
Ion Ratio Lower Upper
168 100
139 43.3 32.6 49.0
169 14.5 11.3 16.9



#55
4-Nitrophenol
Concen: 19.02 ng
RT: 10.00 min Scan# 692
Delta R.T. 0.06 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

Tgt Ion:139 Resp: 121987
Ion Ratio Lower Upper
139 100
109 1.1 52.2 92.2#
65 2.2 85.8 125.8#





#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 :

BNA_F

ClientSampleId :

SB-1-9-10DL

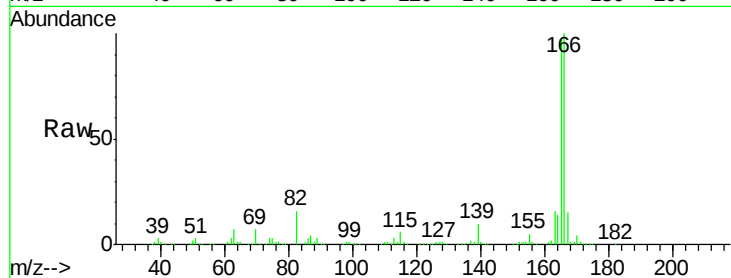
Tgt Ion:166 Resp: 464039

Ion Ratio Lower Upper

166 100

165 97.5 77.8 116.8

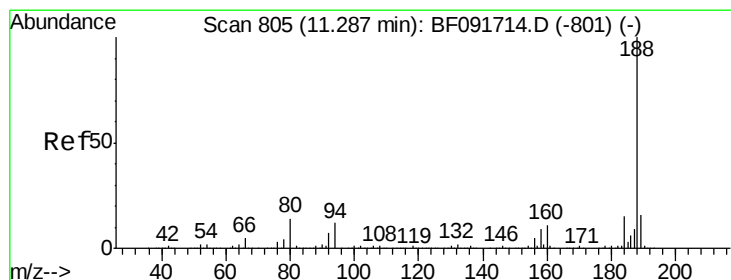
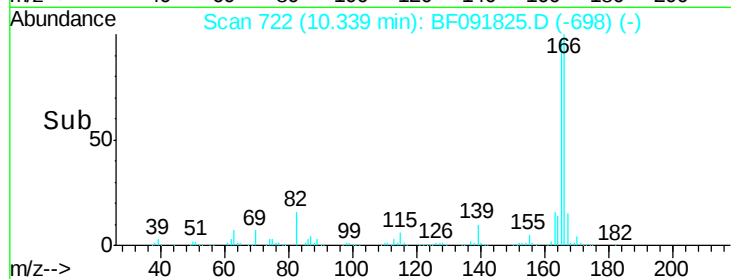
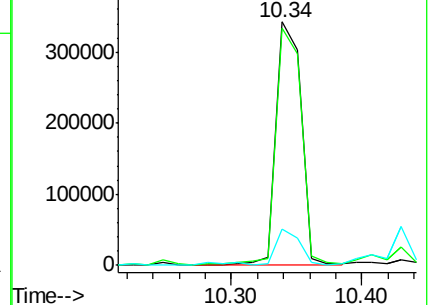
167 15.0 10.8 16.2



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

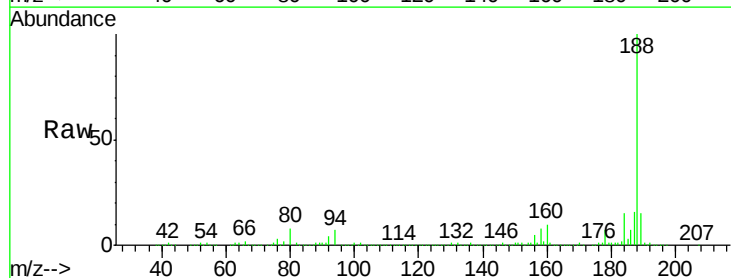
Tgt Ion:188 Resp: 801534

Ion Ratio Lower Upper

188 100

94 7.3 10.0 15.0#

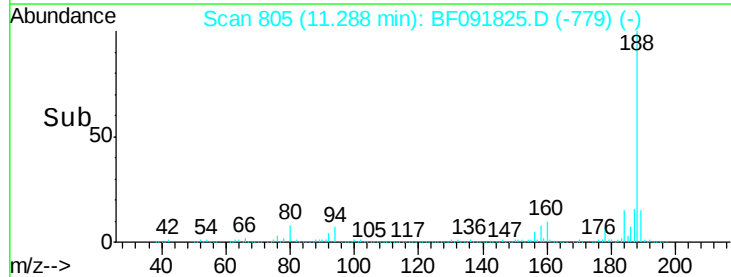
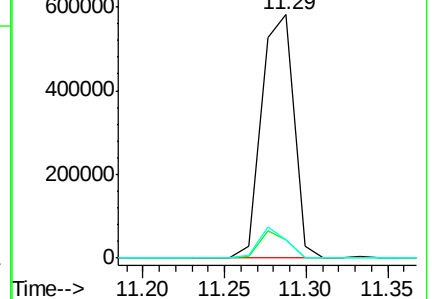
80 7.6 11.2 16.8#

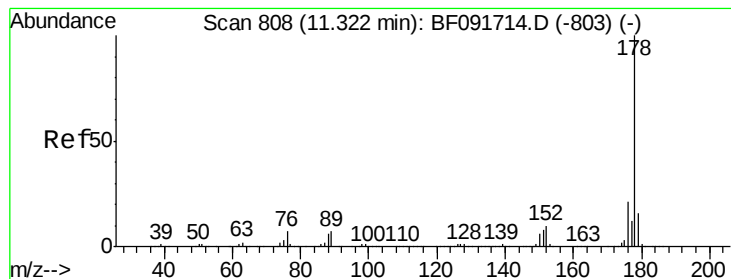


Abundance Ion 188.00 (187.70 to 188.70): E

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

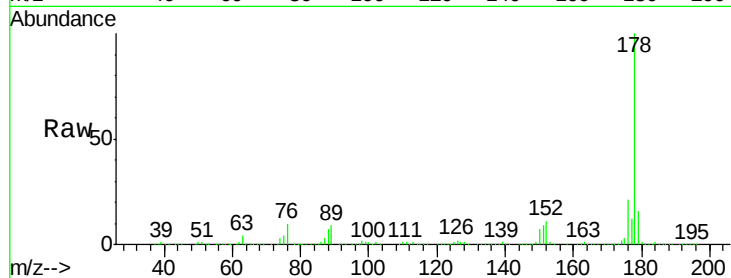
Tgt Ion:178 Resp: 2552950

Ion Ratio Lower Upper

178 100

176 20.8 16.6 25.0

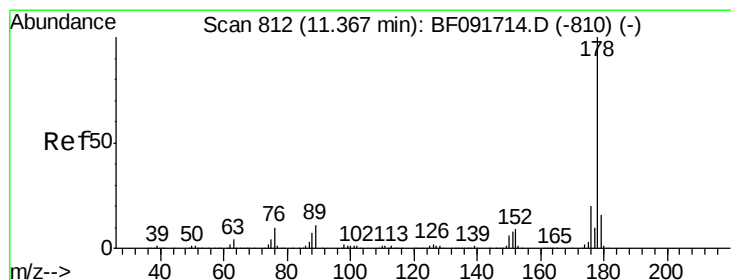
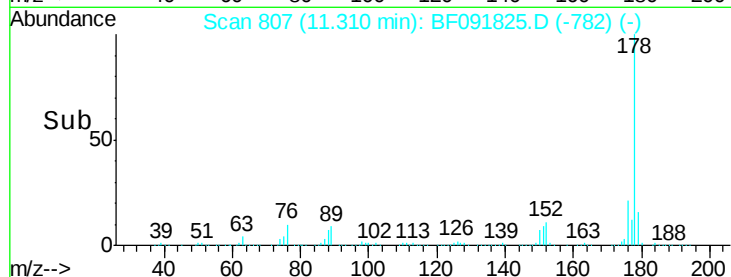
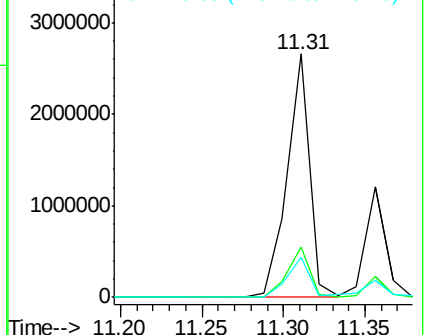
179 16.4 12.8 19.2



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

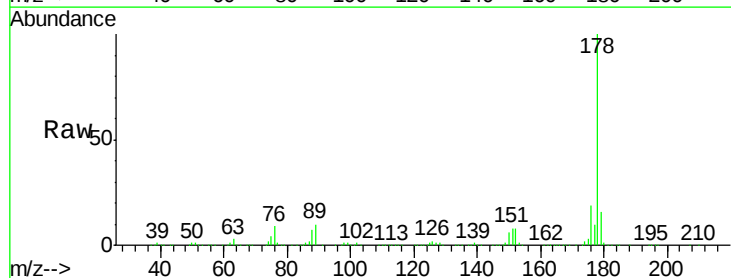
Tgt Ion:178 Resp: 1069288

Ion Ratio Lower Upper

178 100

176 19.4 15.9 23.9

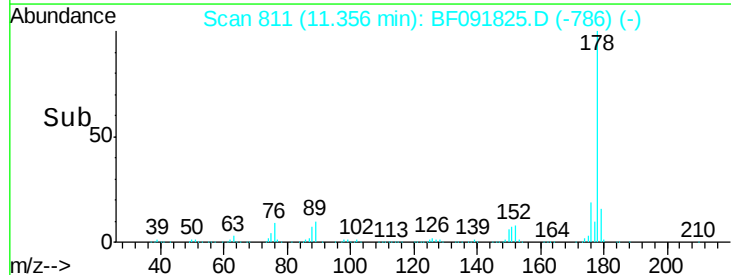
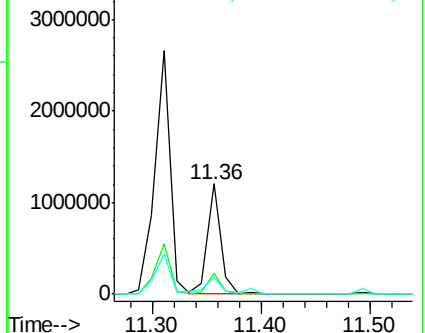
179 15.9 13.2 19.8

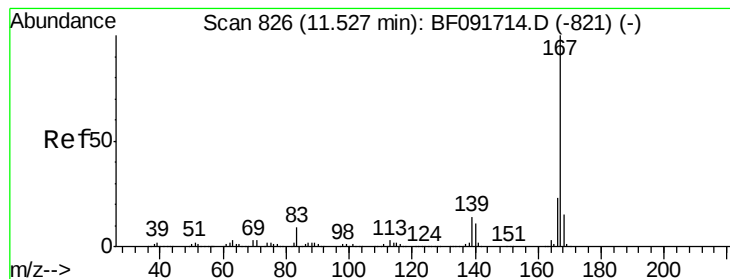


Abundance Ion 178.00 (177.70 to 178.70): E

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

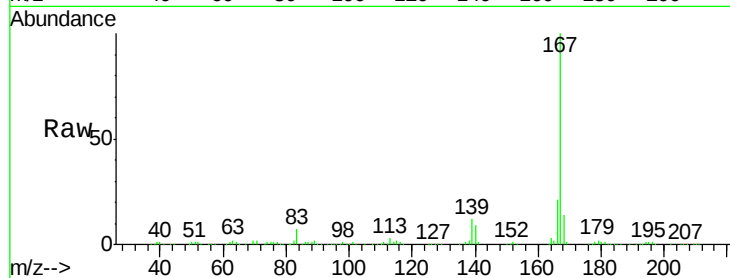
Tgt Ion:167 Resp: 236586

Ion Ratio Lower Upper

167 100

166 20.9 18.2 27.2

139 12.1 11.4 17.2

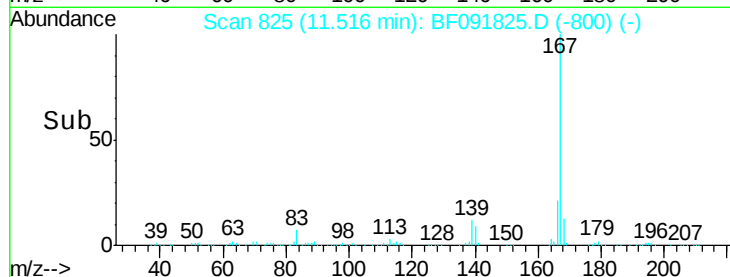


Abundance Ion 167.00 (166.70 to 167.70): E

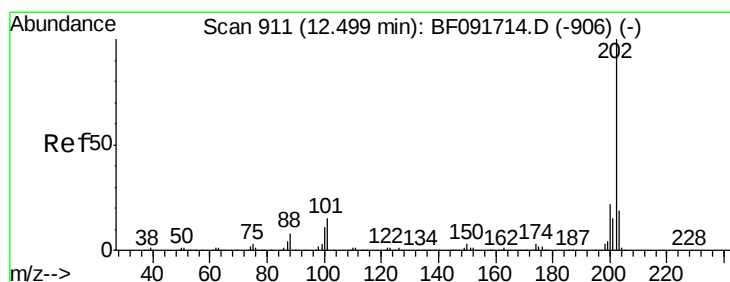
Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

11.52



Time--> 11.45 11.50 11.55



#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

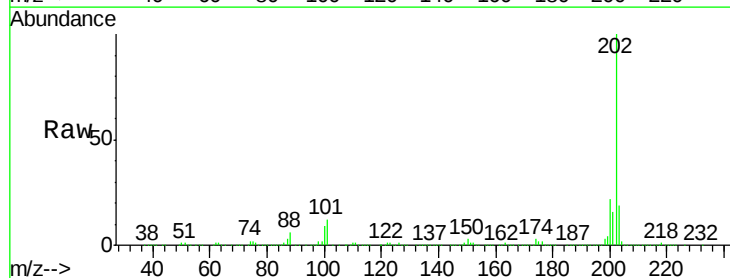
Tgt Ion:202 Resp: 2566518

Ion Ratio Lower Upper

202 100

101 12.0 0.0 34.6

203 18.8 0.0 38.7

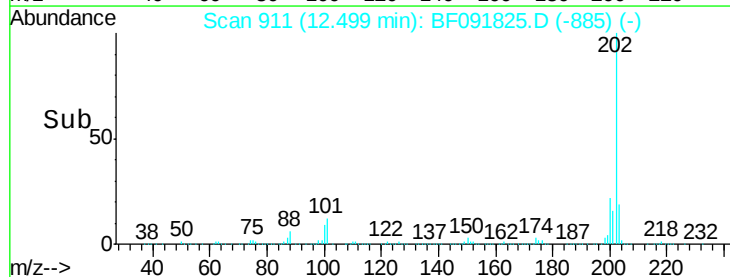


Abundance Ion 202.00 (201.70 to 202.70): E

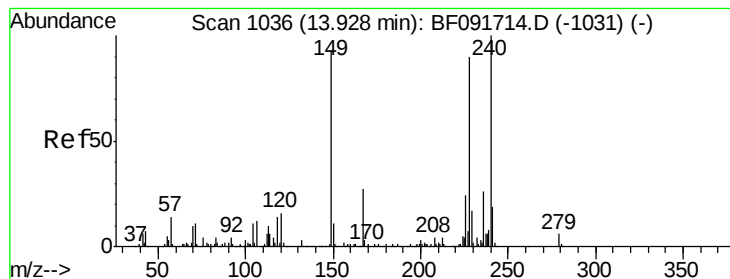
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

12.50



Time--> 12.45 12.50 12.55



#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

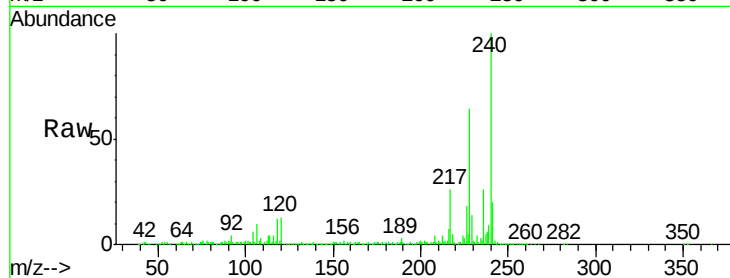
Tgt Ion:240 Resp: 530291

Ion Ratio Lower Upper

240 100

120 13.5 12.9 19.3

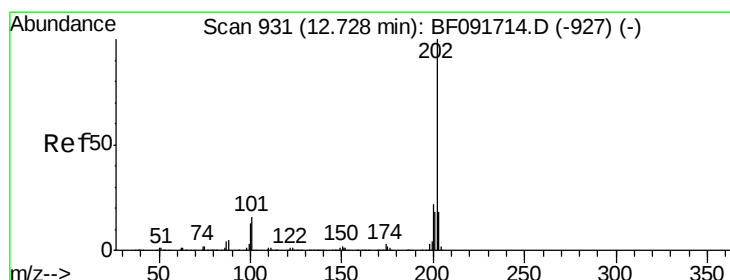
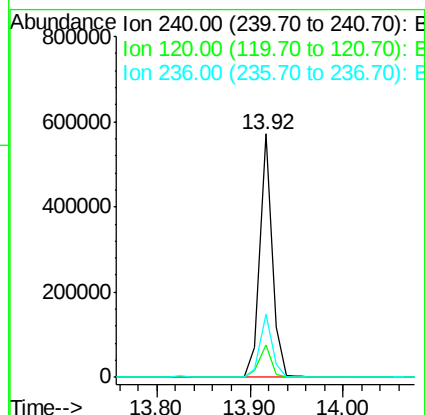
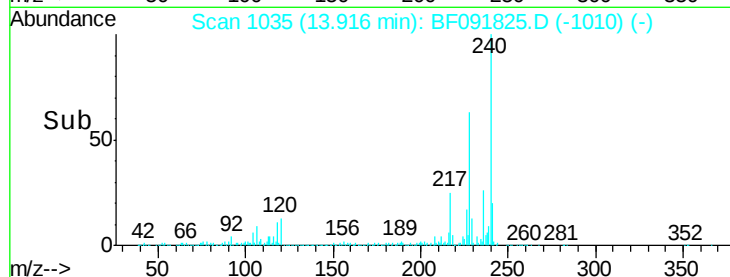
236 25.8 20.9 31.3



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

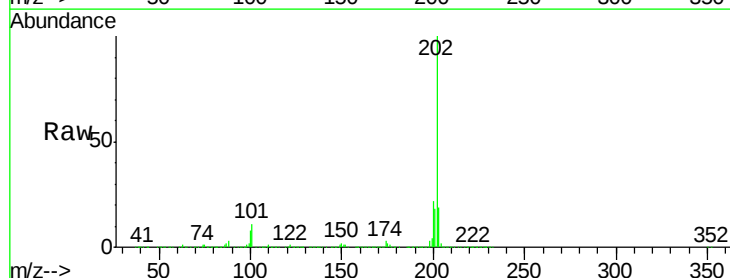
Tgt Ion:202 Resp: 2319265

Ion Ratio Lower Upper

202 100

200 22.3 17.7 26.5

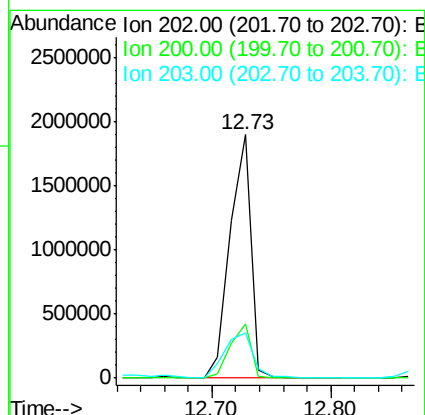
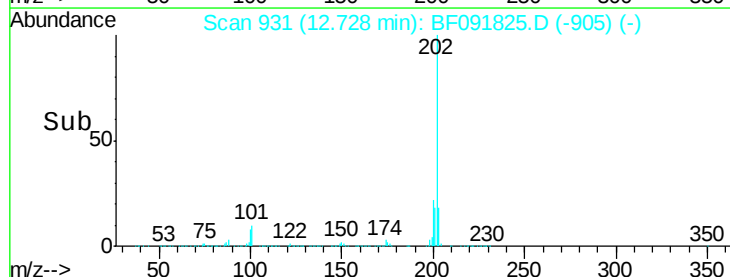
203 18.8 14.7 22.1

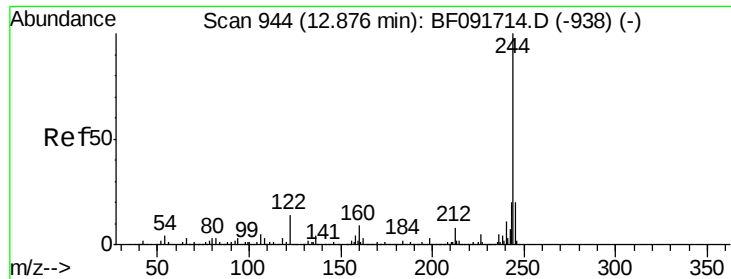


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

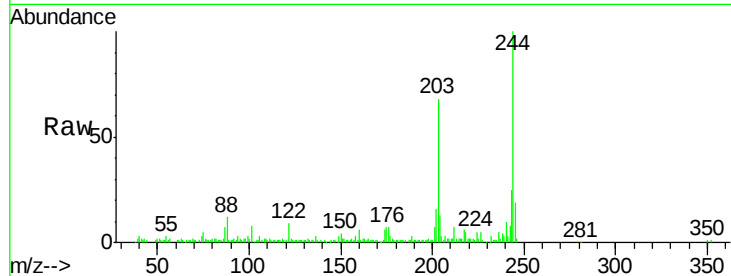




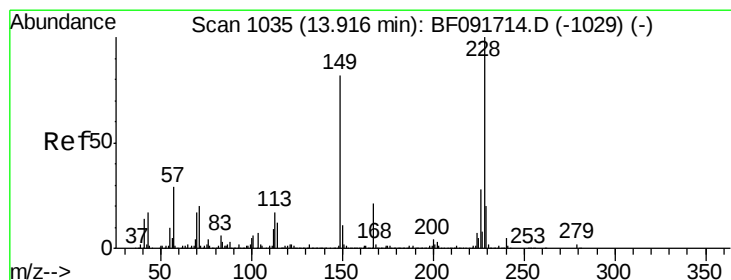
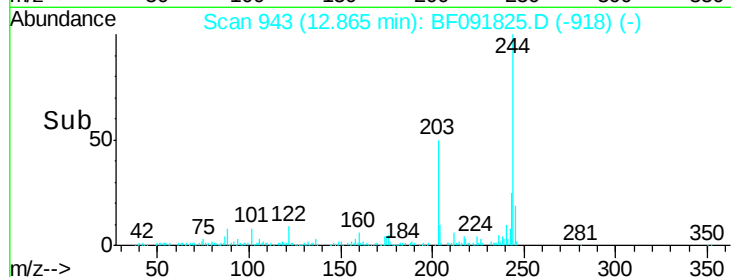
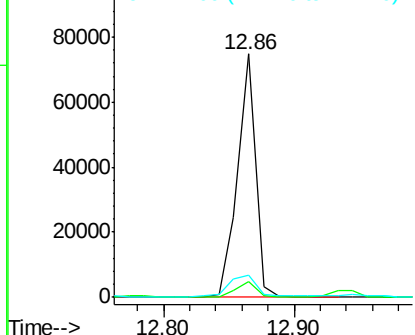
#78
 Terphenyl-d14
 Concen: 3.41 ng
 RT: 12.86 min Scan# 943
 Delta R.T. -0.01 min
 Lab File: BF091825.D
 Acq: 20 Dec 2016 17:36

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

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

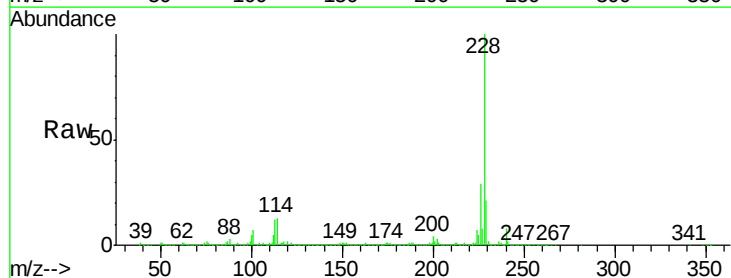


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

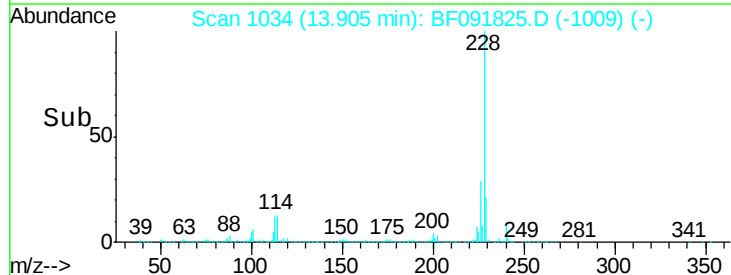
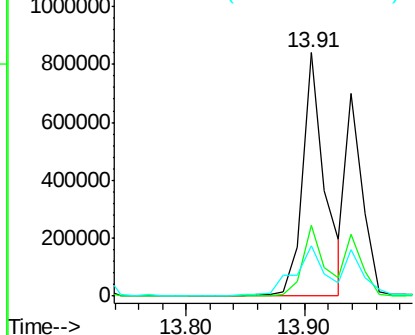


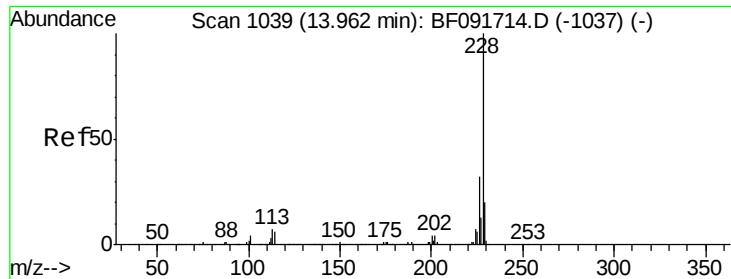
#80
 Benzo(a)anthracene
 Concen: 35.93 ng
 RT: 13.91 min Scan# 1034
 Delta R.T. -0.01 min
 Lab File: BF091825.D
 Acq: 20 Dec 2016 17:36

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



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





#82

Chrysene

Concen: 34.66 ng

RT: 13.91 min Scan# 1034

Delta R.T. -0.06 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

Instrument :

BNA_F

ClientSampled :

SB-1-9-10DL

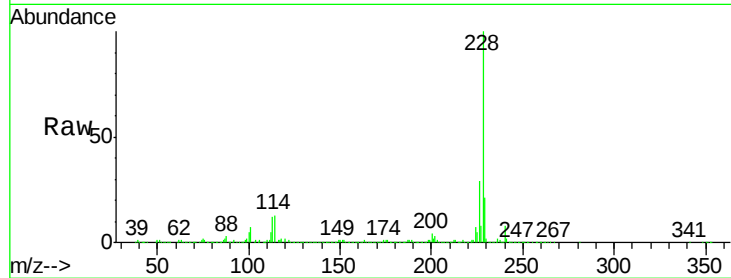
Tgt Ion:228 Resp: 1089774

Ion Ratio Lower Upper

228 100

226 28.9 25.4 38.0

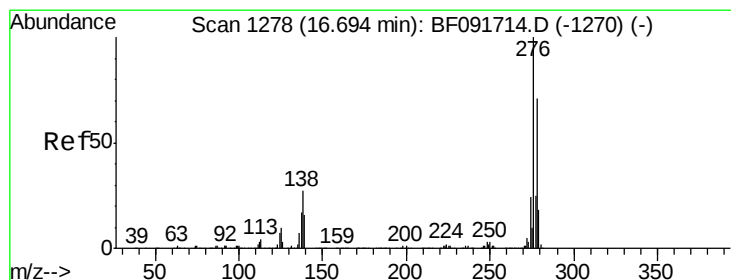
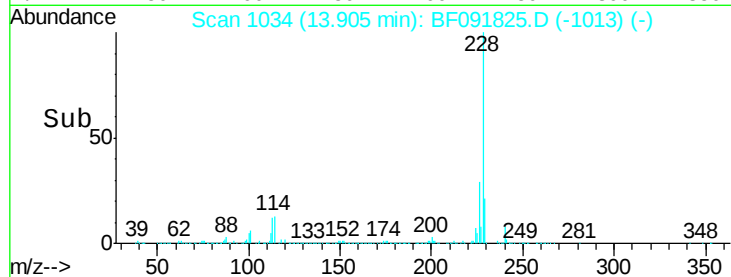
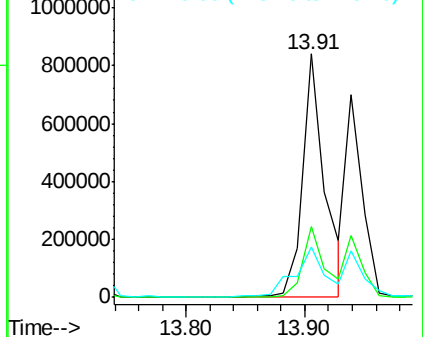
229 20.9 16.2 24.2



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

RT: 16.67 min Scan# 1276

Delta R.T. -0.02 min

Lab File: BF091825.D

Acq: 20 Dec 2016 17:36

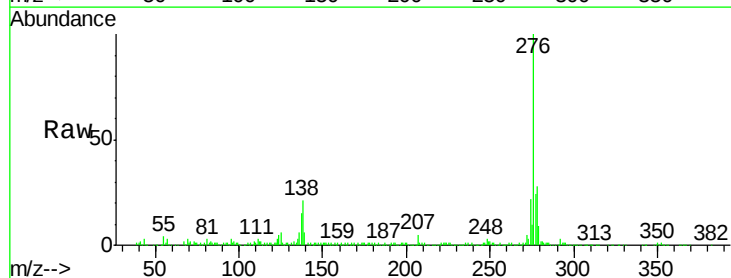
Tgt Ion:276 Resp: 395114

Ion Ratio Lower Upper

276 100

138 23.6 21.8 32.6

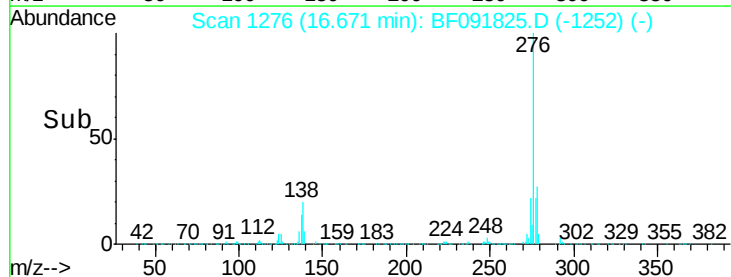
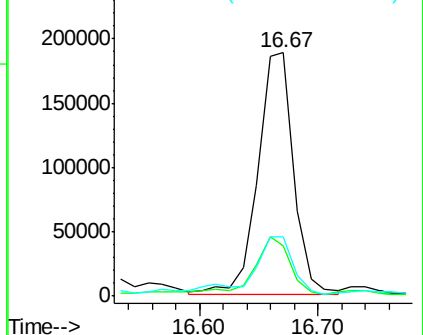
277 28.3 20.2 30.4

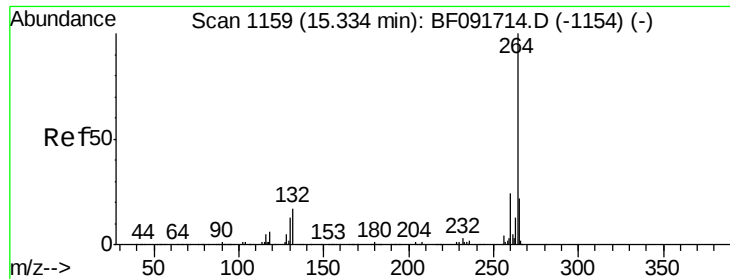


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

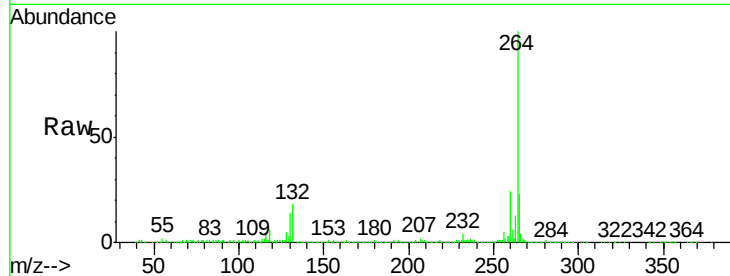




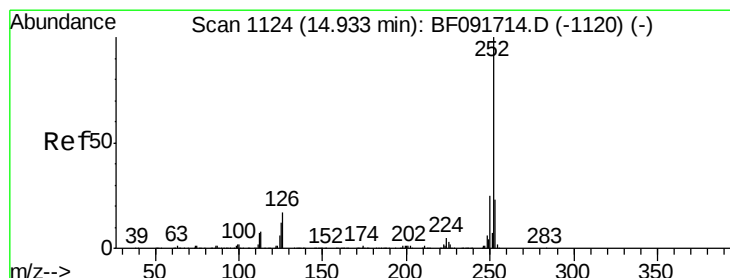
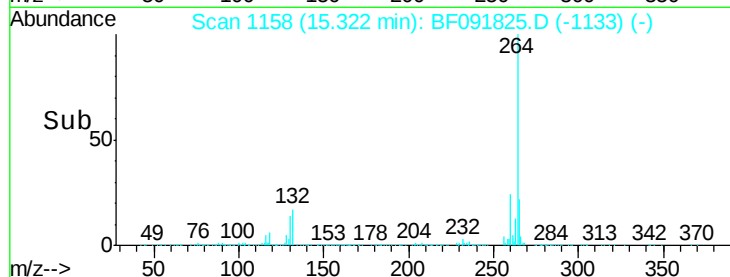
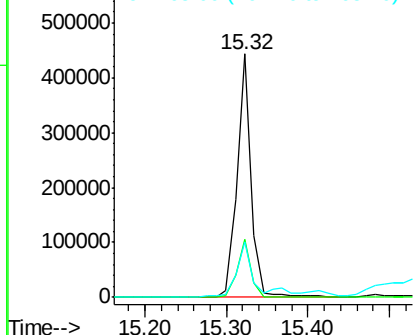
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.32 min Scan# 1158
Delta R.T. -0.01 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

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

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

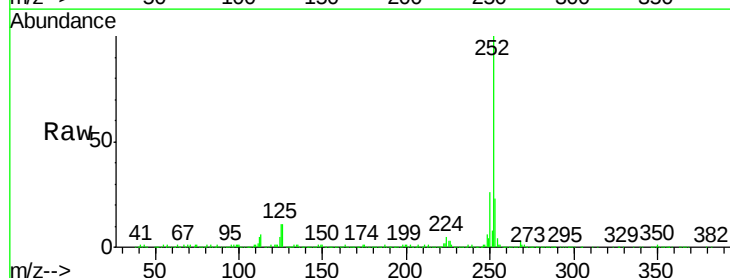


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

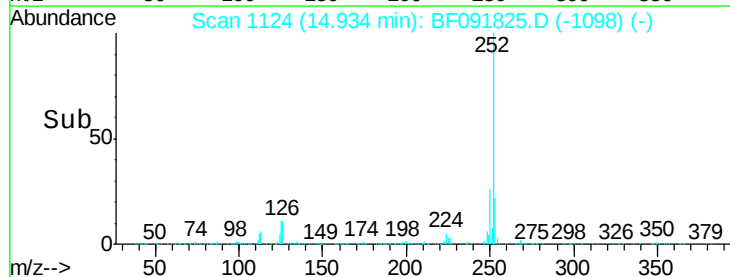
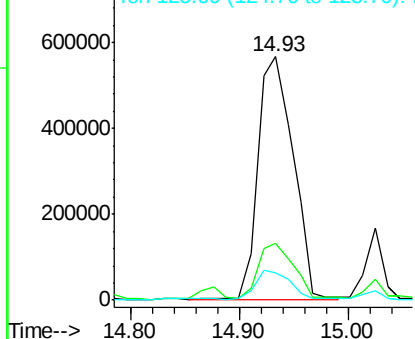


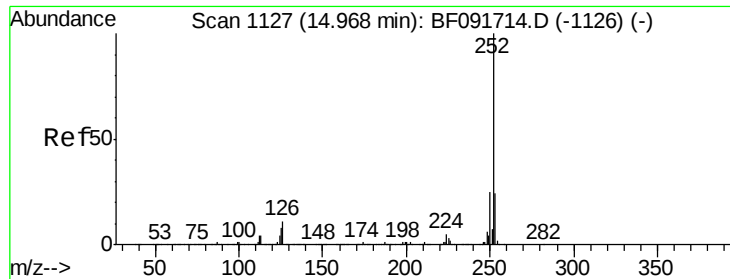
#87
Benzo(b)fluoranthene
Concen: 37.92 ng
RT: 14.93 min Scan# 1124
Delta R.T. 0.00 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

Tgt Ion:252 Resp: 1271861
Ion Ratio Lower Upper
252 100
253 23.1 18.2 27.4
125 11.4 9.8 14.6



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

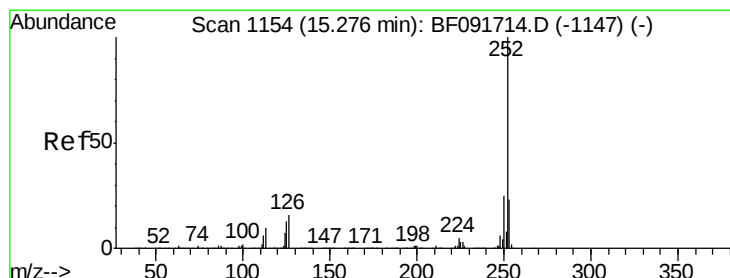
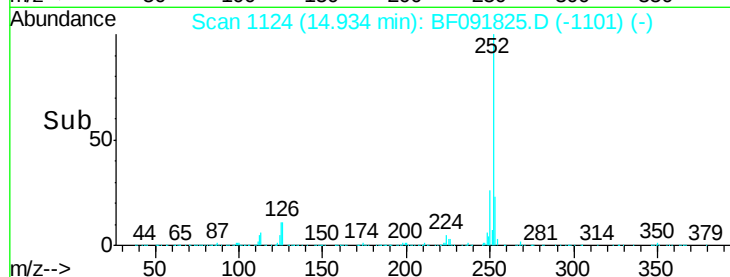
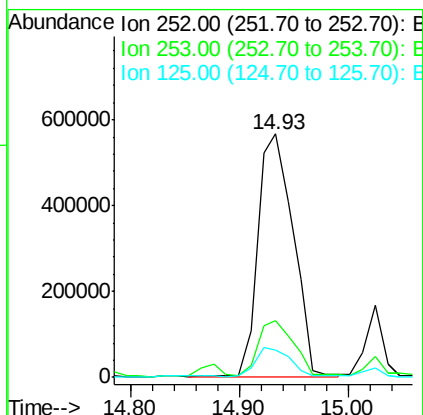
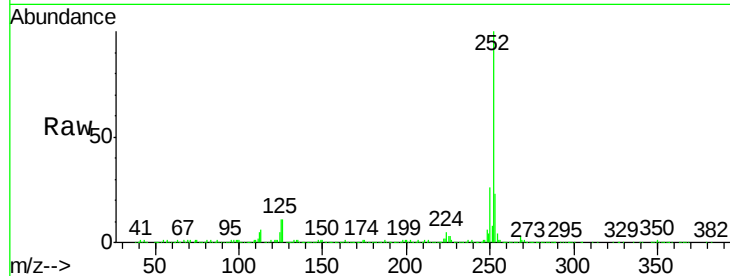




#88
Benzo(k)fluoranthene
Concen: 54.04 ng
RT: 14.93 min Scan# 1124
Delta R.T. -0.03 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

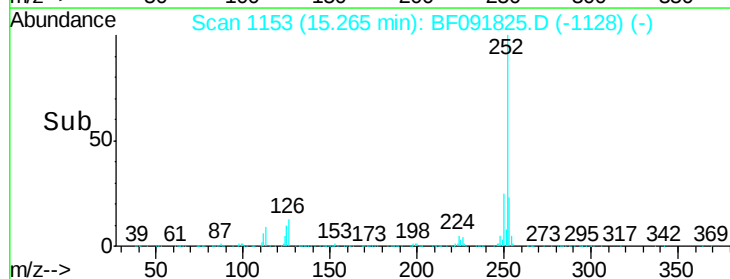
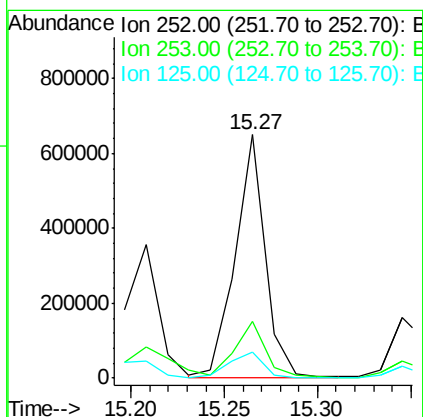
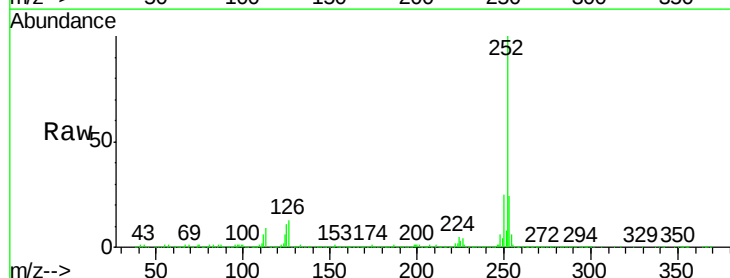
Instrument :
BNA_F
ClientSampleId :
SB-1-9-10DL

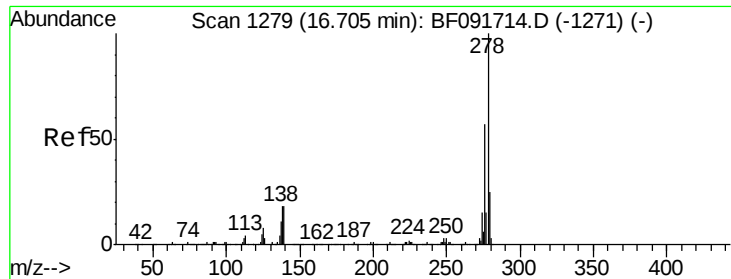
Tgt Ion:252 Resp: 1271861
Ion Ratio Lower Upper
252 100
253 23.1 18.5 27.7
125 11.4 8.9 13.3



#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

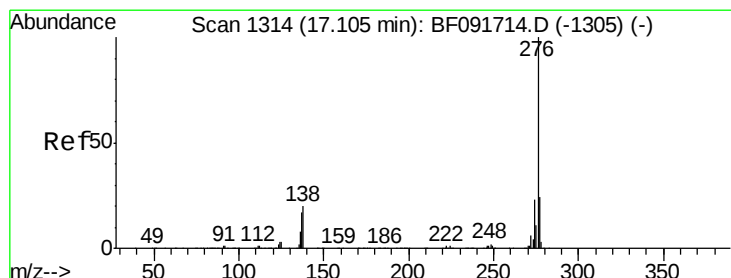
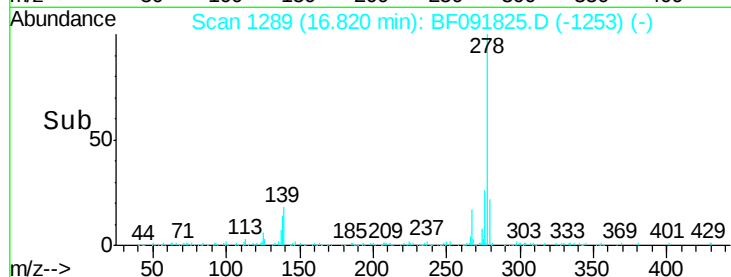
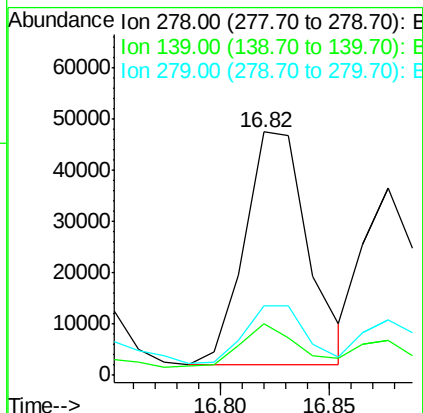
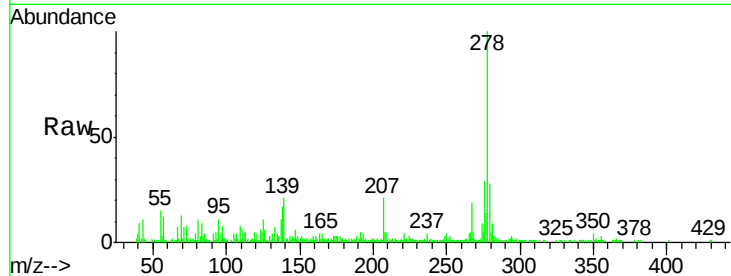




#90
Dibenzo(a,h)anthracene
Concen: 3.68 ng
RT: 16.82 min Scan# 1289
Delta R.T. 0.11 min
Lab File: BF091825.D
Acq: 20 Dec 2016 17:36

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

Tgt Ion: 278 Resp: 92238
Ion Ratio Lower Upper
278 100
139 21.3 14.8 22.2
279 28.3 19.8 29.6



#91
Benzo(g,h,i)perylene
Concen: 12.97 ng
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

