

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080817\
 Data File : BF097490.D
 Acq On : 9 Aug 2017 1:23
 Operator : SJ/JU
 Sample : I4657-10
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 09 03:15:00 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 07 16:02:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.40	152	91128	20.00	ng	0.00
21) Naphthalene-d8	7.69	136	361358	20.00	ng	-0.01
38) Acenaphthene-d10	9.43	164	116550	20.00	ng	0.00
63) Phenanthrene-d10	10.91	188	203948	20.00	ng	0.00
75) Chrysene-d12	13.54	240	134935	20.00	ng	0.00
86) Perylene-d12	14.89	264	119432	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.00	112	492796	81.52	ng	0.00
7) Phenol-d6	6.07	99	605907	87.80	ng	-0.01
23) Nitrobenzene-d5	6.97	82	309797	50.29	ng	-0.02
41) 2,4,6-Tribromophenol	10.22	330	87857	95.41	ng	-0.01
44) 2-Fluorobiphenyl	8.77	172	426258	62.07	ng	0.00
78) Terphenyl-d14	12.49	244	316866	47.88	ng	0.00

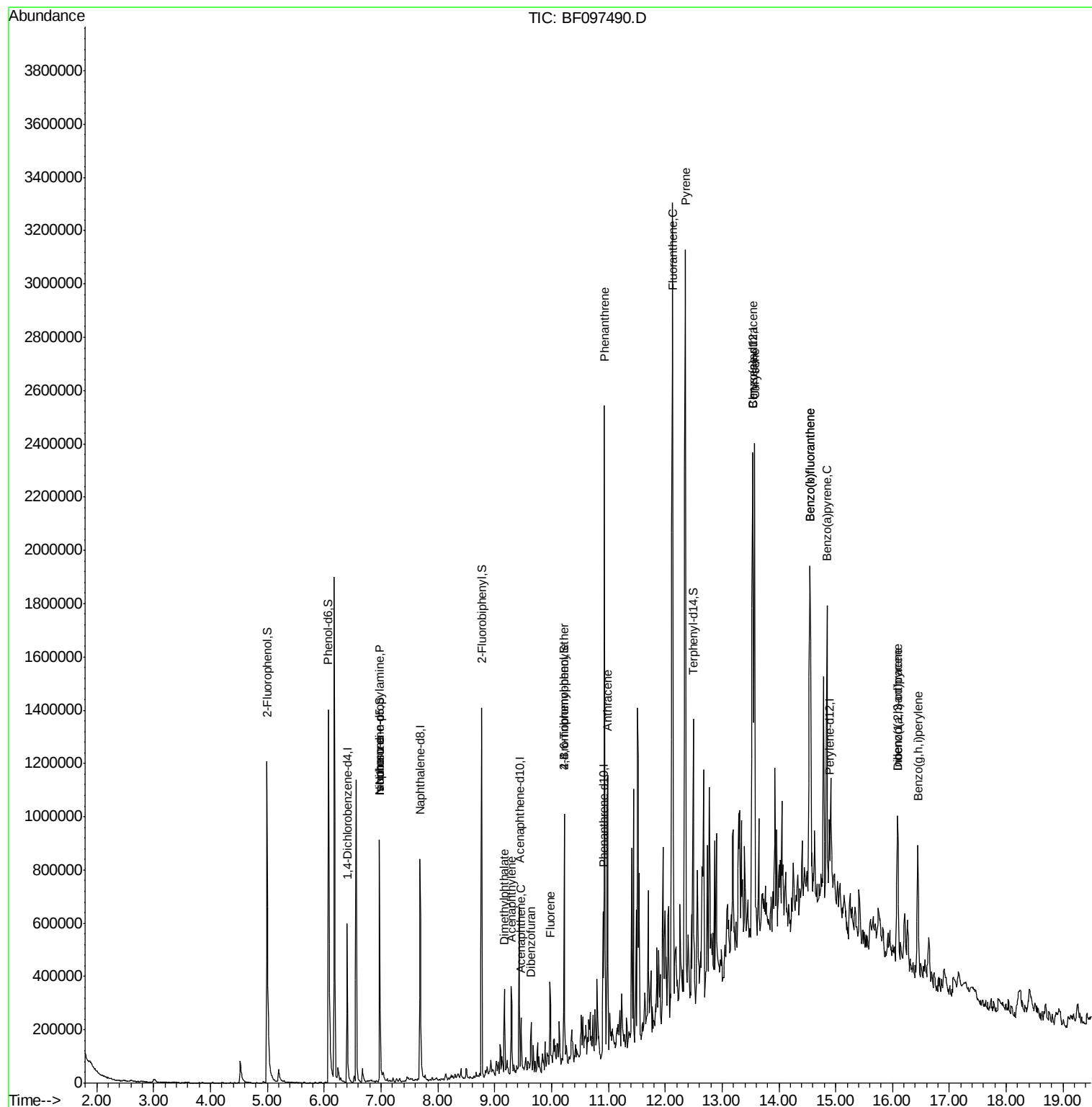
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	6.97	70	40337	8.88	ng	# 87
25) Isophorone	6.97	82	309794	25.68	ng	# 67
48) Acenaphthylene	9.29	152	128063	11.39	ng	99
49) Dimethylphthalate	9.17	163	106230	12.00	ng	99
51) Acenaphthene	9.46	154	36867	5.57	ng	96
54) Dibenzofuran	9.64	168	36511	4.14	ng	# 93
57) Fluorene	9.97	166	77914	11.75	ng	95
66) 4-Bromophenyl-phenylether	10.22	248	5753	2.83	ng	# 1
70) Phenanthrene	10.94	178	1074994	98.37	ng	98
71) Anthracene	10.99	178	396988	35.47	ng	98
74) Fluoranthene	12.13	202	1826165	170.59	ng	99
77) Pylene	12.36	202	1733319	156.91	ng	100
80) Benzo(a)anthracene	13.54	228	936064	107.21	ng	97
82) Chrysene	13.57	228	821403	96.35	ng	96
85) Indeno(1,2,3-cd)pyrene	16.09	276	354957	48.56	ng	92
87) Benzo(b)fluoranthene	14.54	252	1037416	144.50	ng	# 97
88) Benzo(k)fluoranthene	14.54	252	1037416	151.64	ng	99
89) Benzo(a)pyrene	14.84	252	550198	83.74	ng	99
90) Dibenzo(a,h)anthracene	16.09	278	99120	18.40	ng	# 75
91) Benzo(a,h,i)perylene	16.44	276	322392	57.06	ng	98

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

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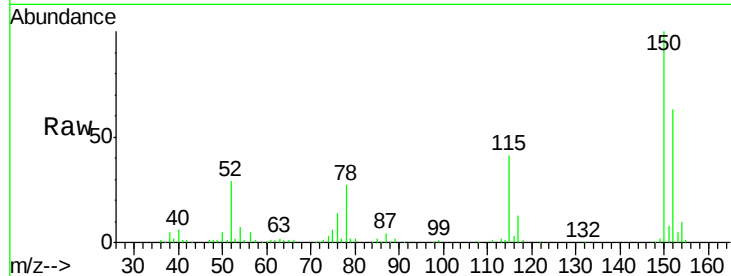


#1

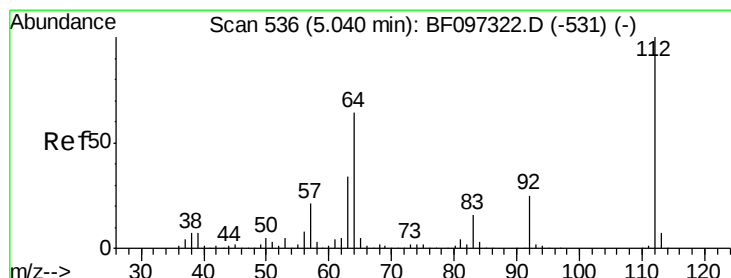
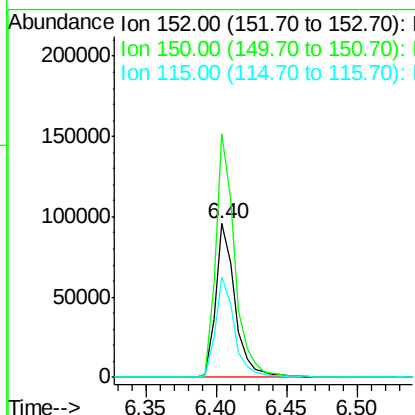
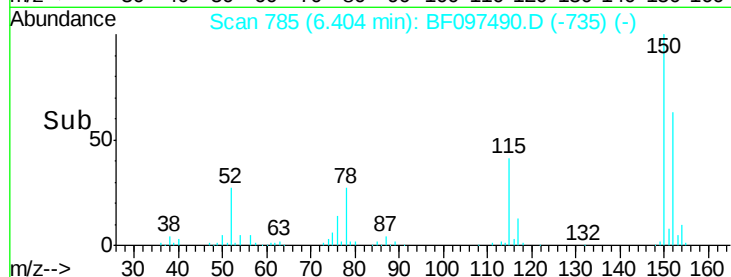
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.40 min Scan# 785
Delta R.T. -0.01 min
Lab File: BF097490.D
Acq: 9 Aug 2017 1:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 91128
Ion Ratio Lower Upper
152 100
150 158.4 126.2 189.2
115 65.2 52.2 78.2



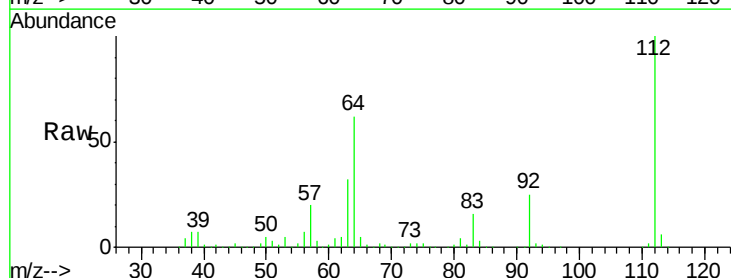
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



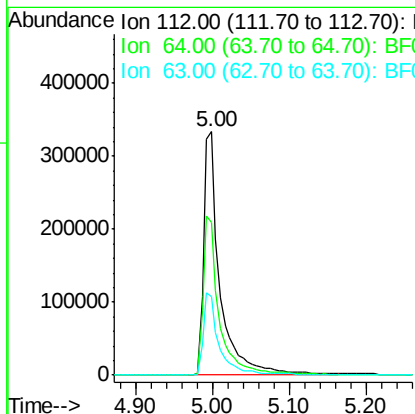
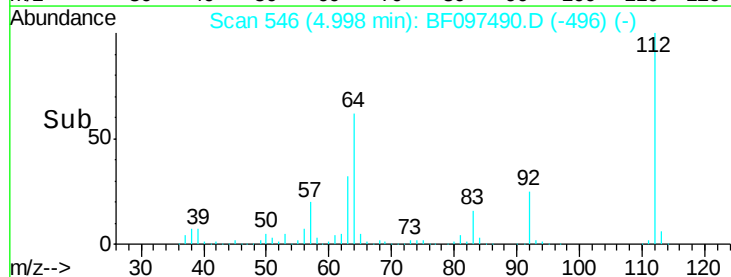
#5

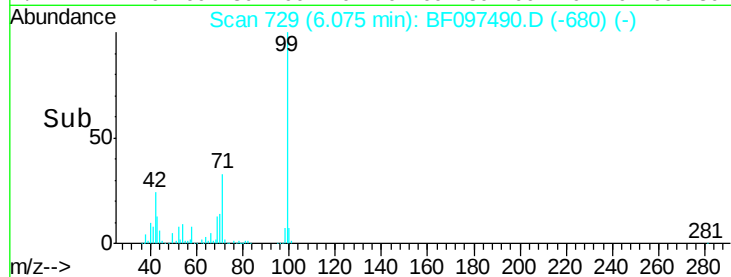
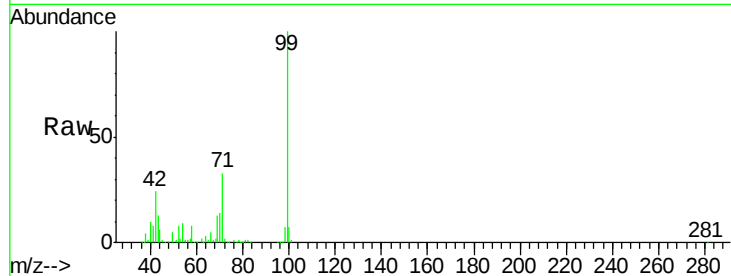
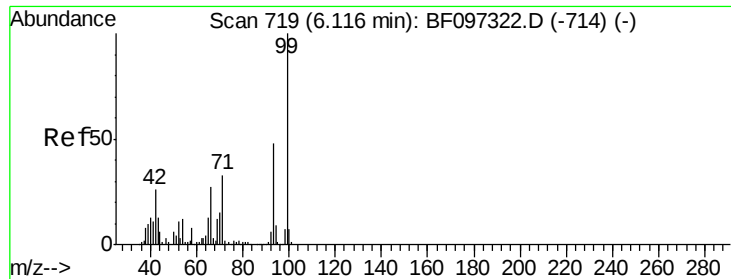
2-Fluorophenol
Concen: 81.52 ng
RT: 5.00 min Scan# 546
Delta R.T. -0.01 min
Lab File: BF097490.D
Acq: 9 Aug 2017 1:23

Tgt Ion:112 Resp: 492796
Ion Ratio Lower Upper
112 100
64 62.5 46.0 69.0
63 32.3 23.4 35.0



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: 87.80 ng

RT: 6.07 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

Instrument :

BNA_F

ClientSampleId :

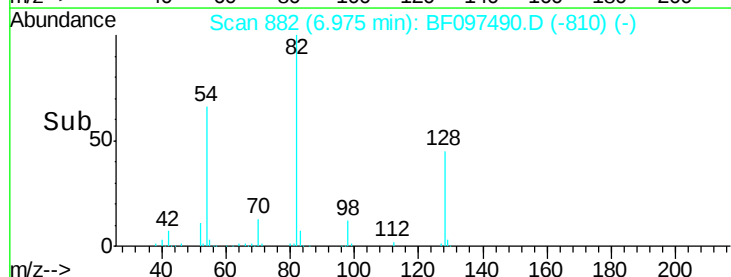
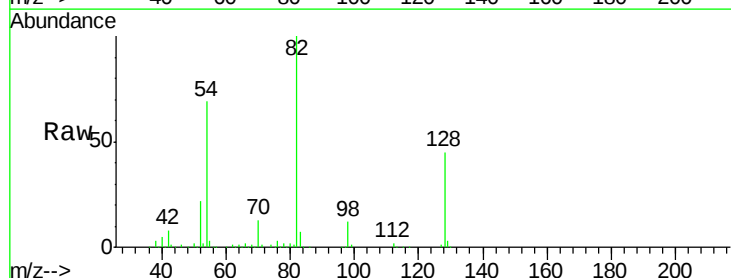
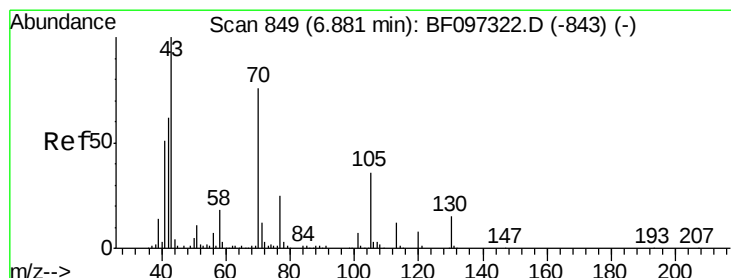
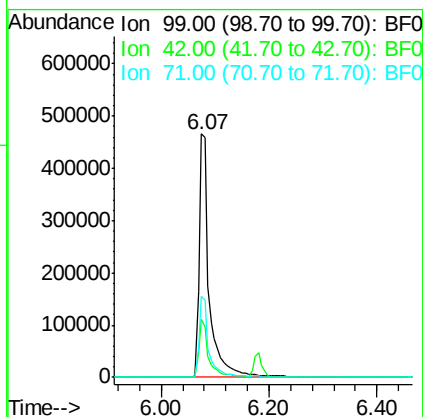
Tot Ion: 99 Resp: 605907

Ion Ratio Lower Upper

99 100

42 24.0 13.5 20.3#

71 33.2 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 8.88 ng

RT: 6.97 min Scan# 882

Delta R.T. 0.12 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

Tgt Ion: 70 Resp: 40337

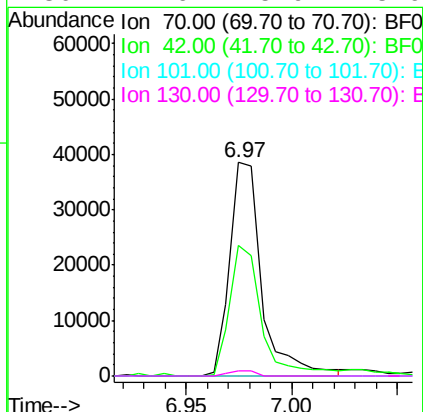
Ion Ratio Lower Upper

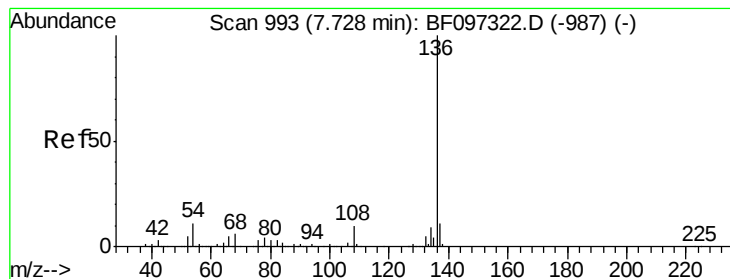
70 100

42 61.0 47.2 70.8

101 0.0 7.2 10.8#

130 2.6 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.69 min Scan# 1003

Delta R.T. -0.01 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 361358

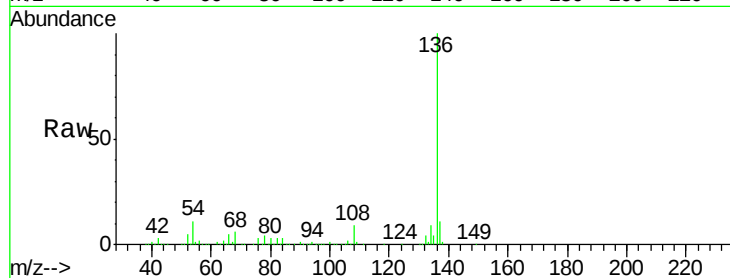
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 11.0 4.9 7.3#

68 5.9 4.1 6.1

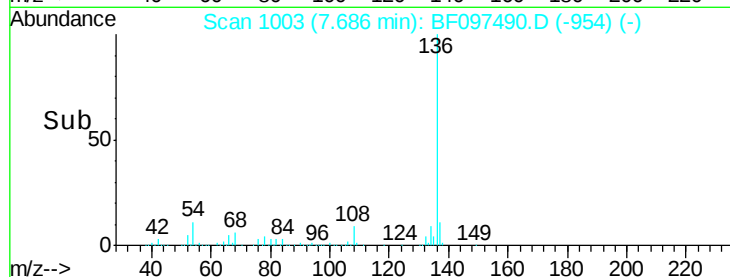


Abundance Ion 136.00 (135.70 to 136.70): E

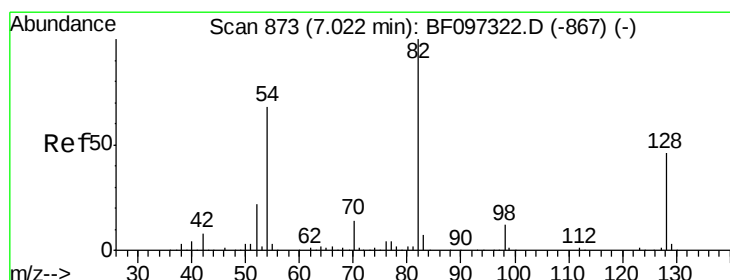
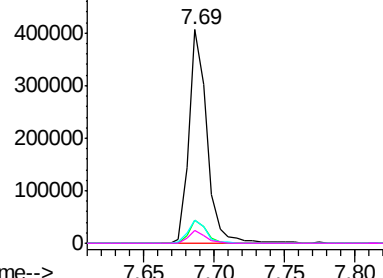
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 50.29 ng

RT: 6.97 min Scan# 882

Delta R.T. -0.02 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

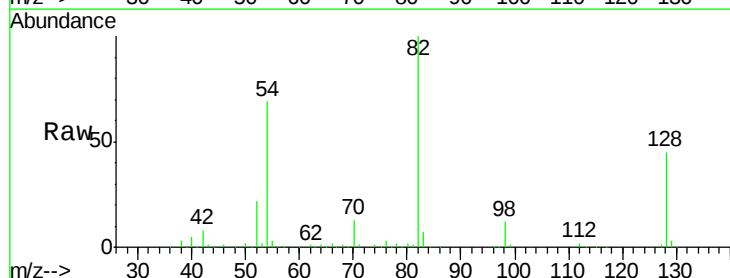
Tgt Ion: 82 Resp: 309797

Ion Ratio Lower Upper

82 100

128 44.6 34.0 51.0

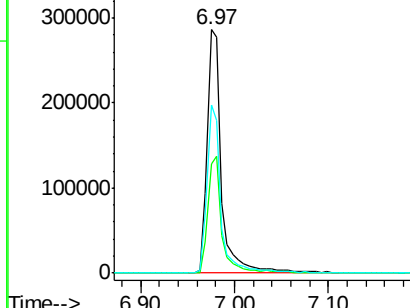
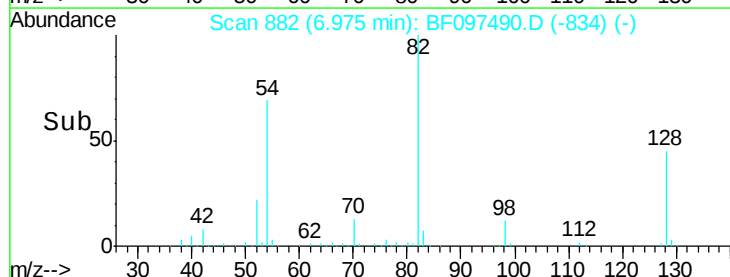
54 68.9 42.2 63.2#

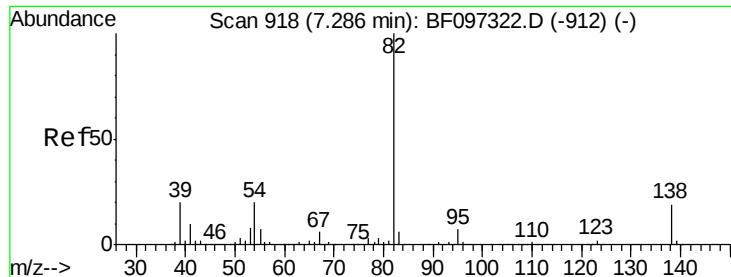


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 25.68 ng

RT: 6.97 min Scan# 882

Delta R.T. -0.28 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

Instrument :

BNA_F

ClientSampleId :

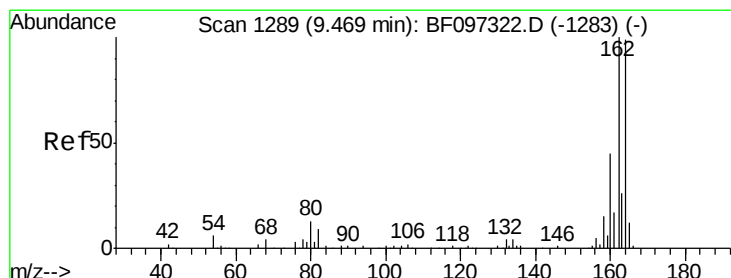
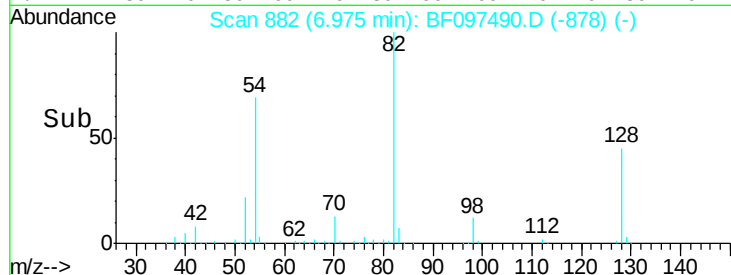
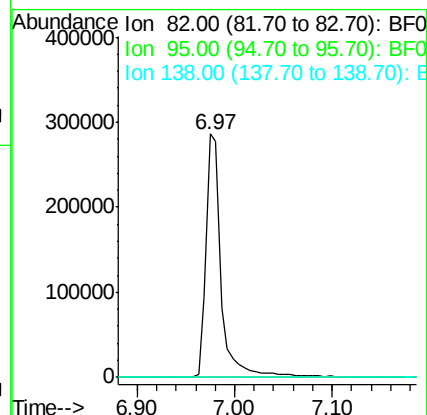
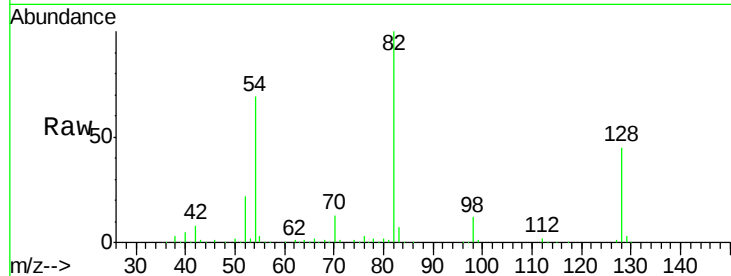
Tot Ion: 82 Resp: 309794

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.43 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

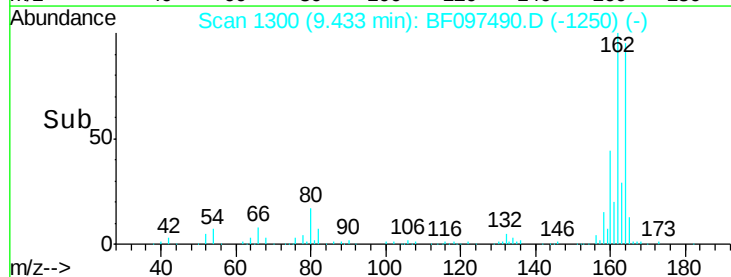
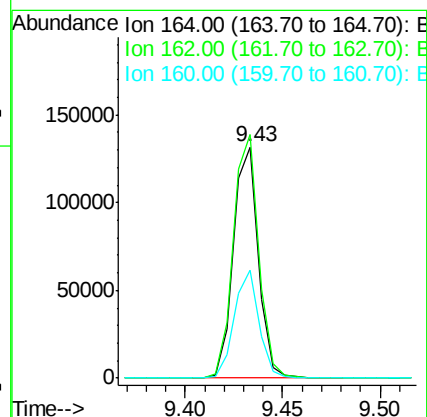
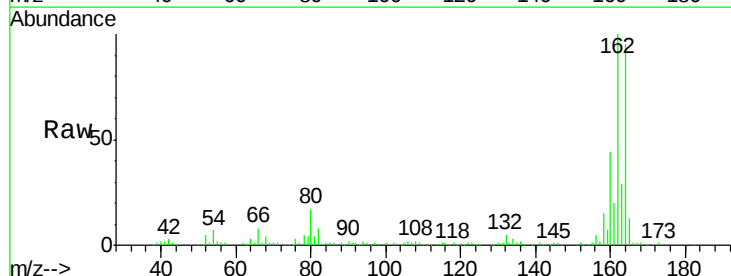
Tgt Ion:164 Resp: 116550

Ion Ratio Lower Upper

164 100

162 105.3 82.6 123.8

160 46.6 36.2 54.2

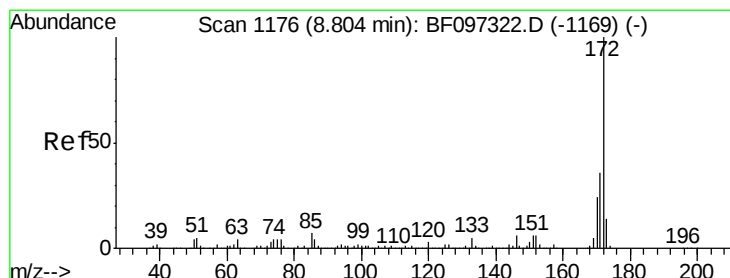
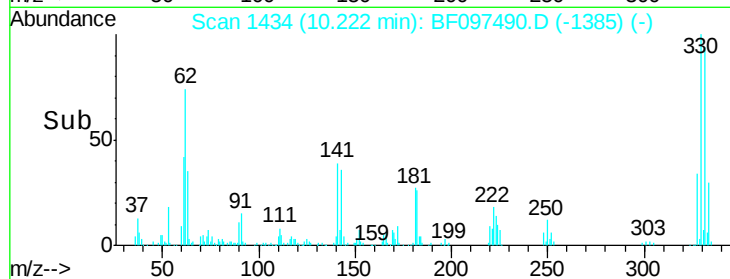
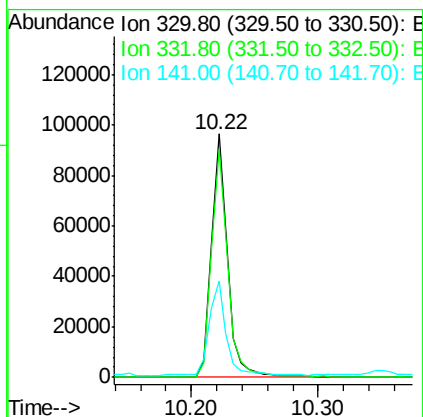
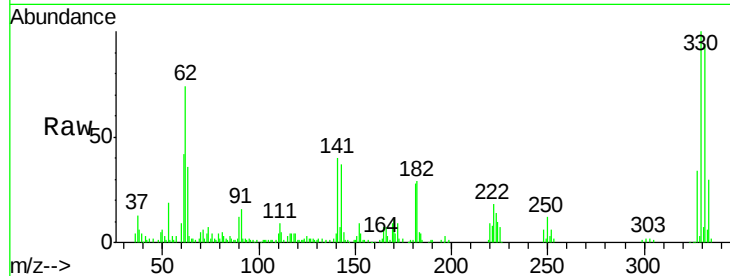




#41
 2,4,6-Tribromophenol
 Concen: 95.41 ng
 RT: 10.22 min Scan# 1434
 Delta R.T. -0.01 min
 Lab File: BF097490.D
 Acq: 9 Aug 2017 1:23

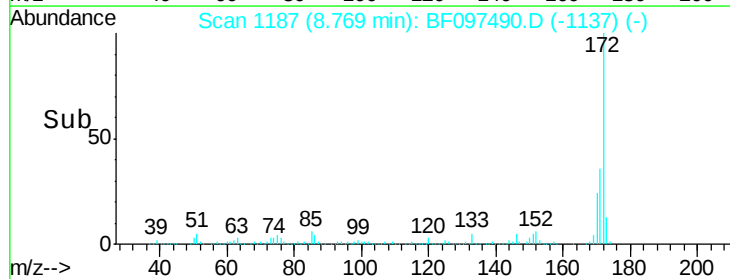
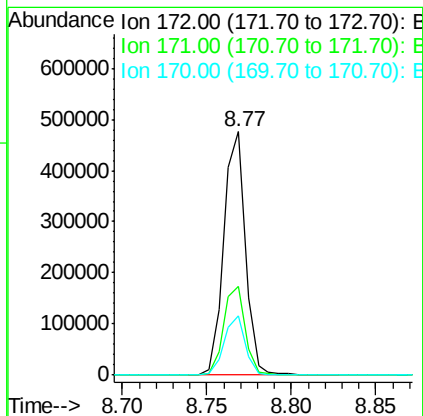
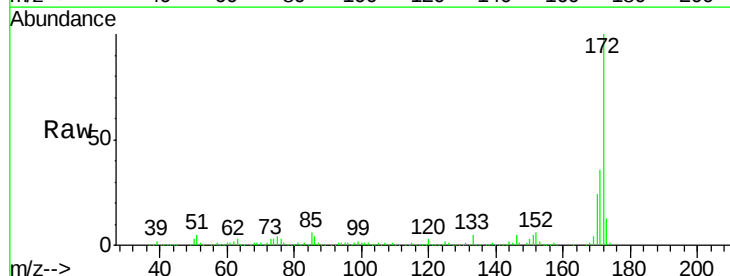
Instrument :
 BNA_F
 ClientSampleId :

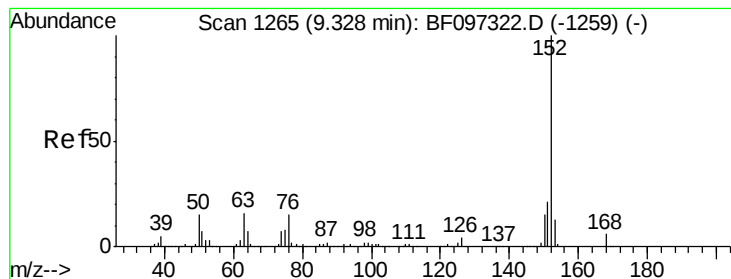
Tot Ion:330 Resp: 87857
 Ion Ratio Lower Upper
 330 100
 332 95.4 76.6 115.0
 141 40.5 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 62.07 ng
 RT: 8.77 min Scan# 1187
 Delta R.T. -0.01 min
 Lab File: BF097490.D
 Acq: 9 Aug 2017 1:23

Tgt Ion:172 Resp: 426258
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.6 44.4
 170 24.3 19.8 29.8





#48

Acenaphthylene

Concen: 11.39 ng

RT: 9.29 min Scan# 1276

Delta R.T. -0.01 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

Instrument :

BNA_F

ClientSampleId :

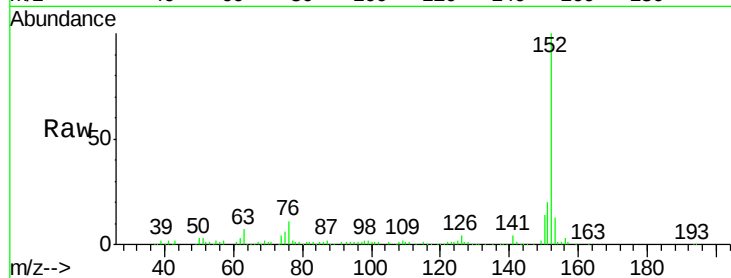
Tot Ion:152 Resp: 128063

Ion Ratio Lower Upper

152 100

151 20.5 16.8 25.2

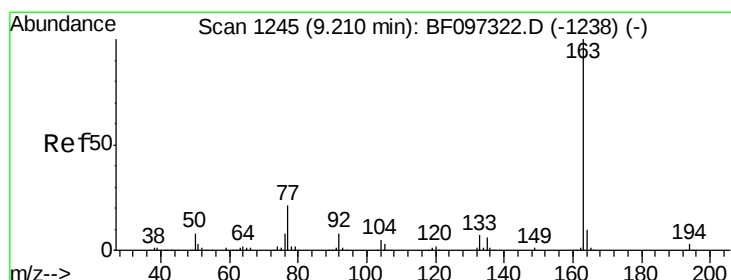
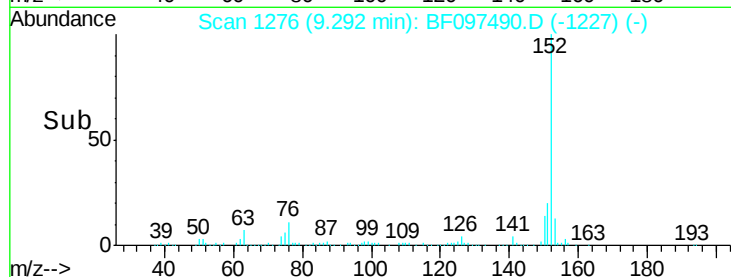
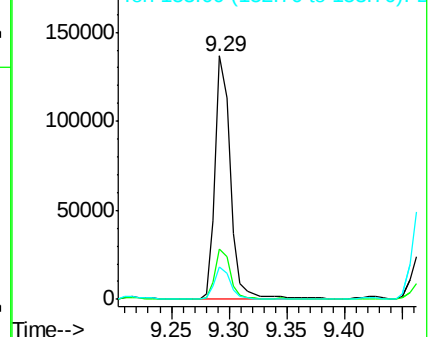
153 13.5 10.8 16.2



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: 12.00 ng

RT: 9.17 min Scan# 1255

Delta R.T. -0.02 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

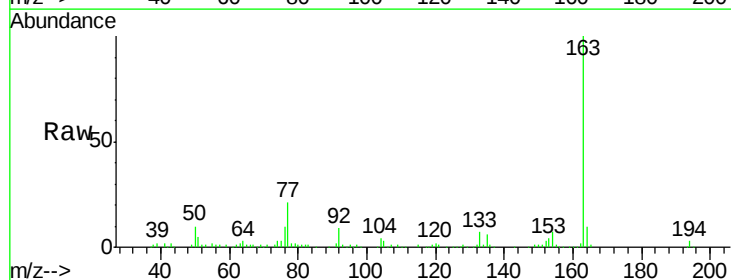
Tgt Ion:163 Resp: 106230

Ion Ratio Lower Upper

163 100

194 3.2 2.6 4.0

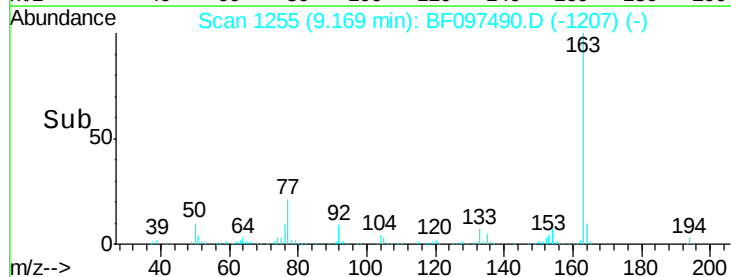
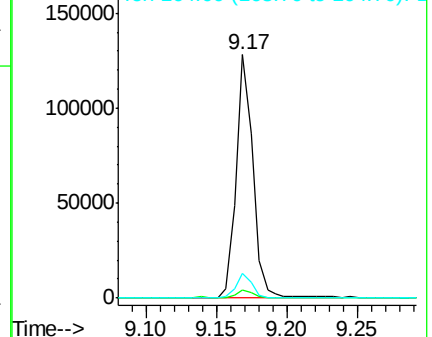
164 10.2 8.4 12.6

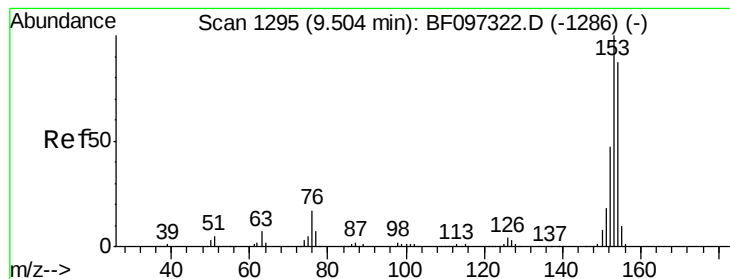


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 5.57 ng

RT: 9.46 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

Instrument :

BNA_F

ClientSampleId :

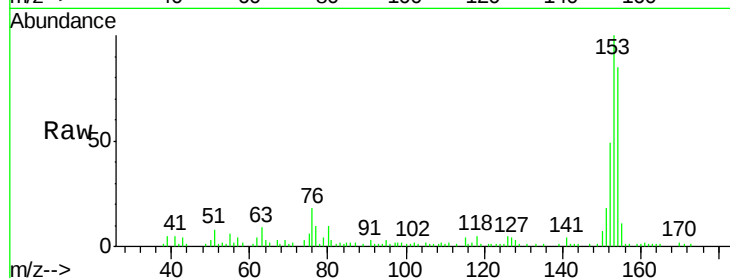
Tot Ion:154 Resp: 36867

Ion Ratio Lower Upper

154 100

153 117.3 90.5 135.7

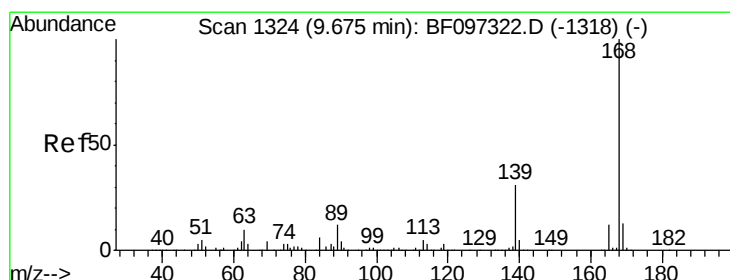
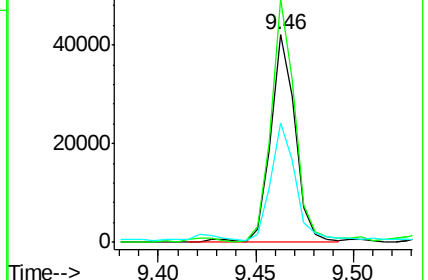
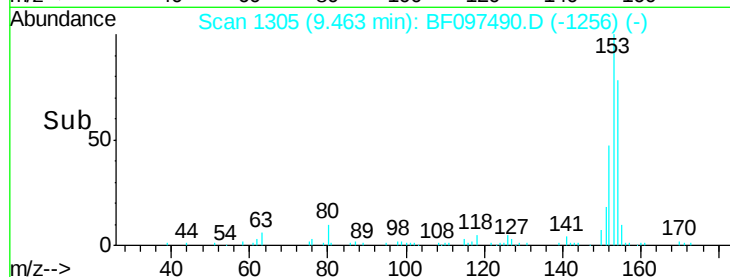
152 57.3 43.6 65.4



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: 4.14 ng

RT: 9.64 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

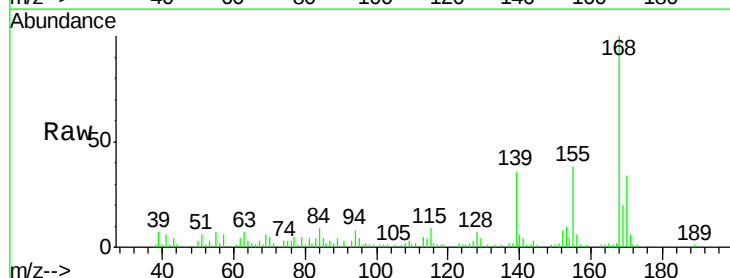
Tgt Ion:168 Resp: 36511

Ion Ratio Lower Upper

168 100

139 35.6 30.6 45.8

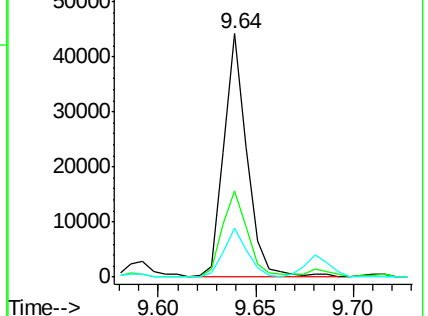
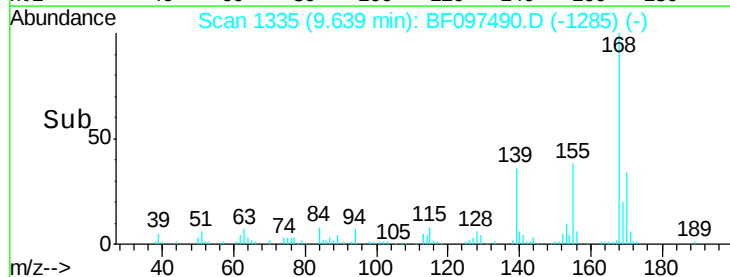
169 20.0 10.8 16.2#

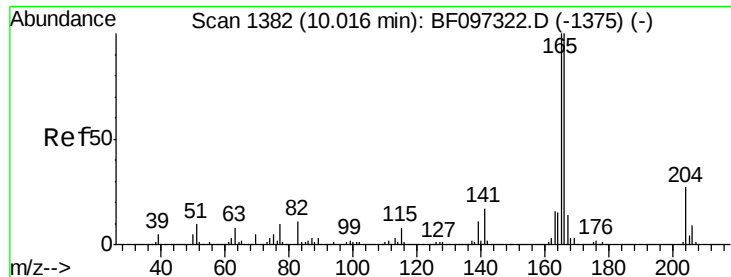


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 11.75 ng

RT: 9.97 min Scan# 1392

Delta R.T. -0.02 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

Instrument :

BNA_F

ClientSampleId :

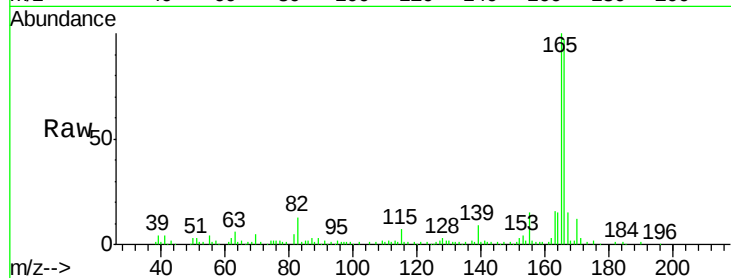
Tot Ion:166 Resp: 77914

Ion Ratio Lower Upper

166 100

165 103.0 78.8 118.2

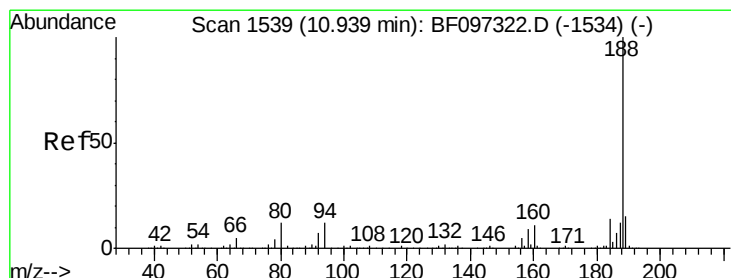
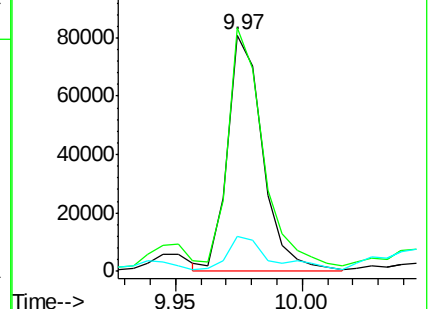
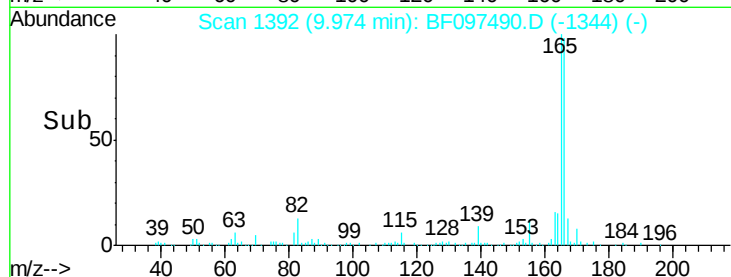
167 15.1 10.6 16.0



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: 10.91 min Scan# 1551

Delta R.T. -0.01 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

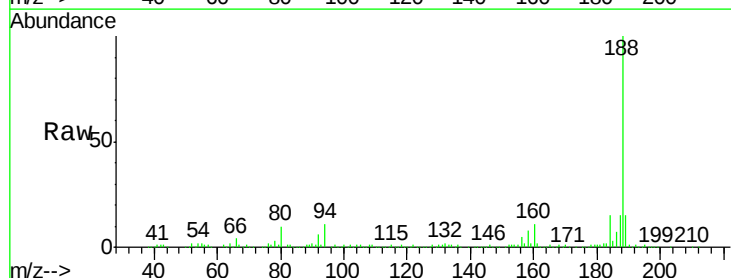
Tgt Ion:188 Resp: 203948

Ion Ratio Lower Upper

188 100

94 10.8 9.4 14.2

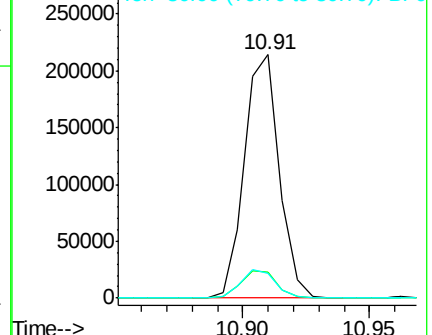
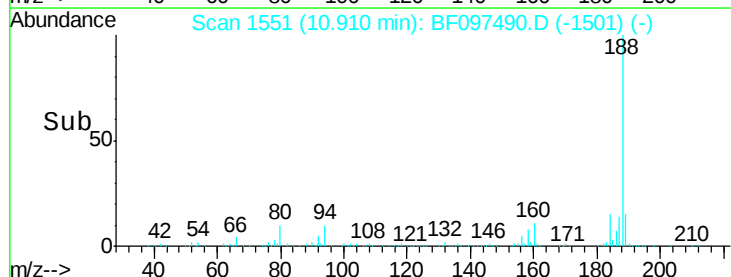
80 10.4 10.2 15.2

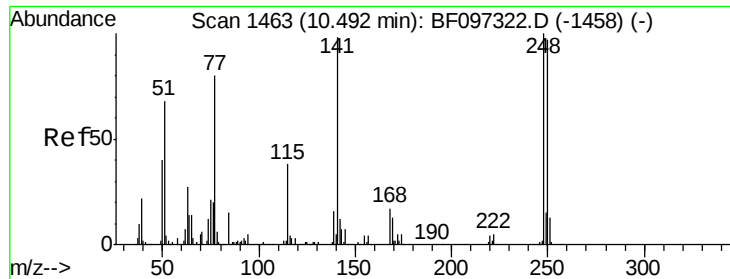


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

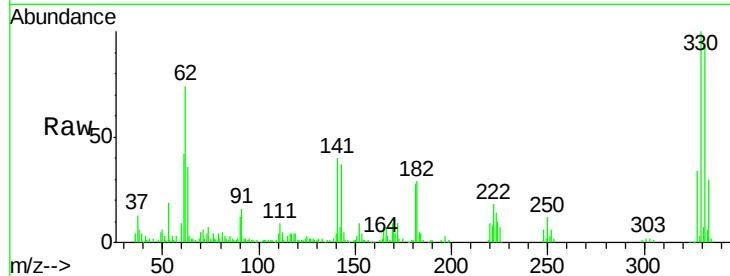




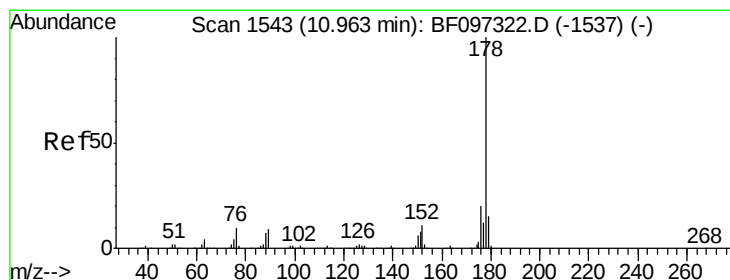
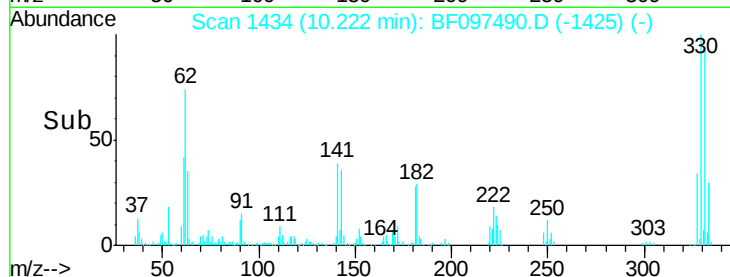
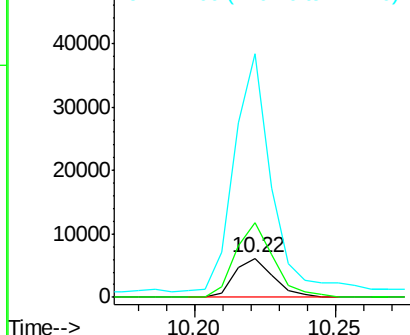
#66
 4-Bromophenyl-phenylether
 Concen: 2.83 ng
 RT: 10.22 min Scan# 1434
 Delta R.T. -0.25 min
 Lab File: BF097490.D
 Acq: 9 Aug 2017 1:23

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:248 Resp: 5753
 Ion Ratio Lower Upper
 248 100
 250 189.6 76.8 115.2#
 141 621.9 68.6 103.0#

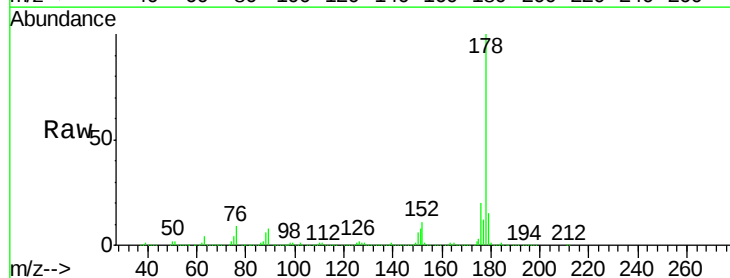


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

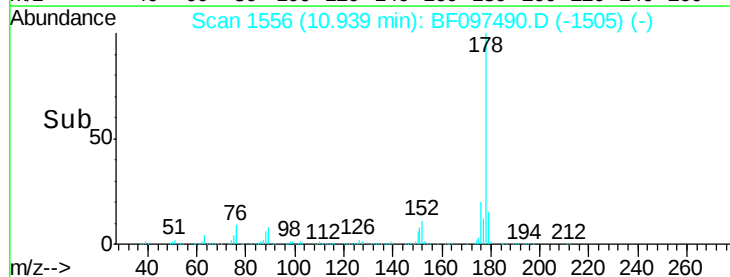
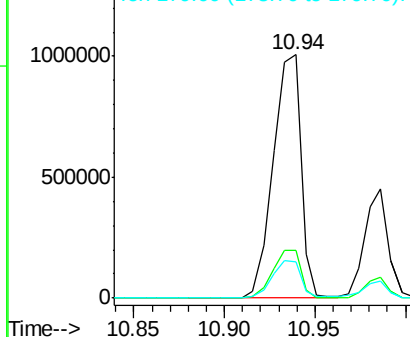


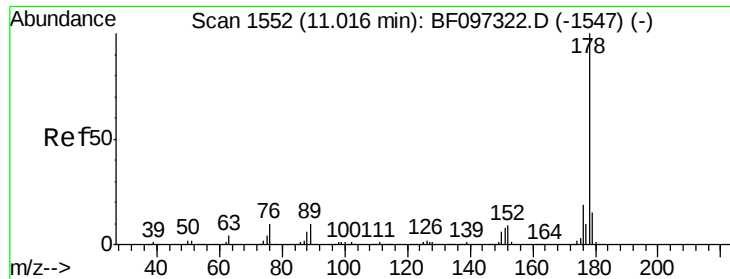
#70
 Phenanthrene
 Concen: 98.37 ng
 RT: 10.94 min Scan# 1556
 Delta R.T. 0.00 min
 Lab File: BF097490.D
 Acq: 9 Aug 2017 1:23

Tgt Ion:178 Resp: 1074994
 Ion Ratio Lower Upper
 178 100
 176 19.7 16.2 24.4
 179 15.0 12.6 19.0



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

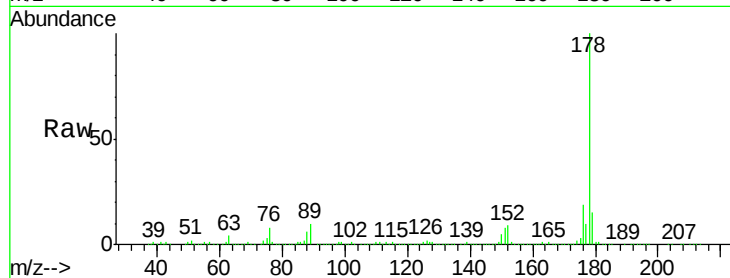




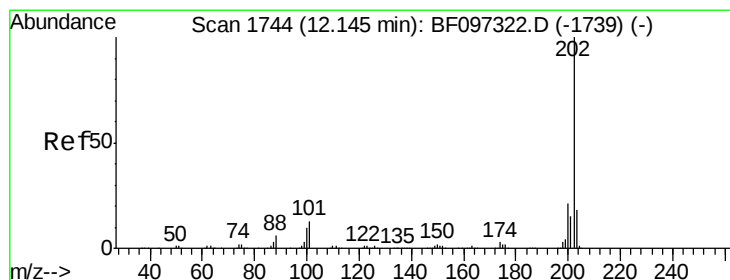
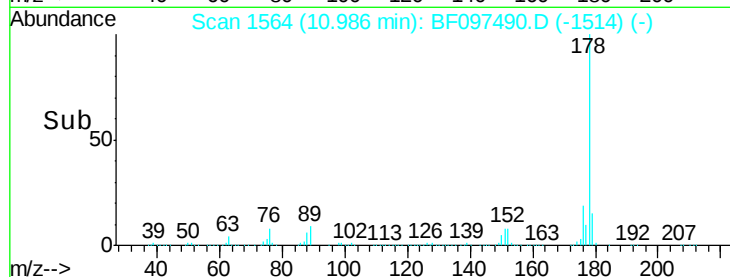
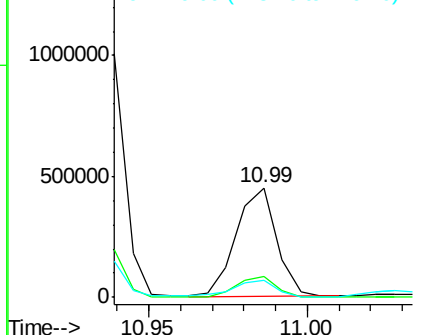
#71
 Anthracene
 Concen: 35.47 ng
 RT: 10.99 min Scan# 1564
 Delta R.T. -0.01 min
 Lab File: BF097490.D
 Acq: 9 Aug 2017 1:23

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:178 Resp: 396988
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.8 23.8
 179 15.3 12.7 19.1

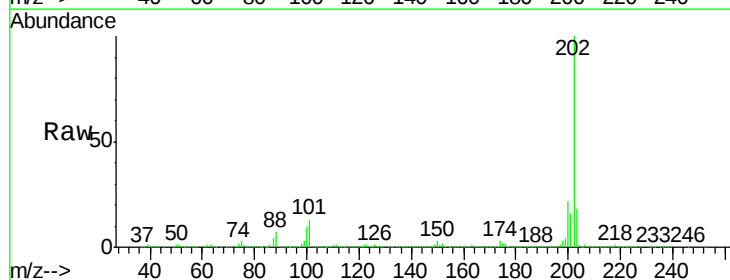


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

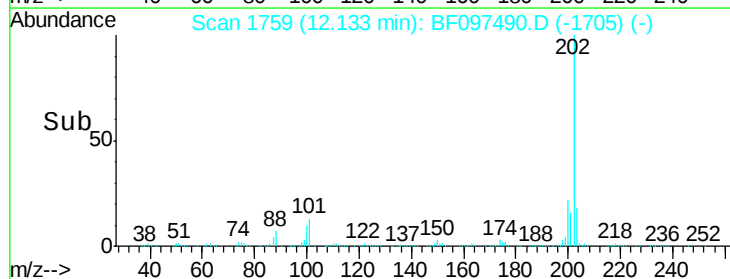
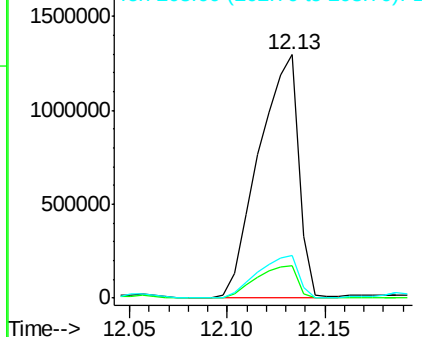


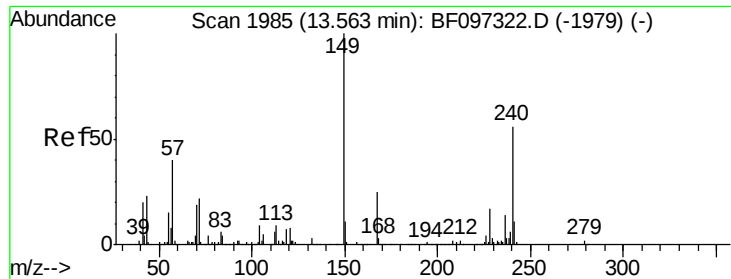
#74
 Fluoranthene
 Concen: 170.59 ng
 RT: 12.13 min Scan# 1759
 Delta R.T. 0.02 min
 Lab File: BF097490.D
 Acq: 9 Aug 2017 1:23

Tgt Ion:202 Resp: 1826165
 Ion Ratio Lower Upper
 202 100
 101 13.5 0.0 33.2
 203 17.8 0.0 38.1



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: 13.54 min Scan# 1999

Delta R.T. 0.01 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

Instrument :

BNA_F

ClientSampleId :

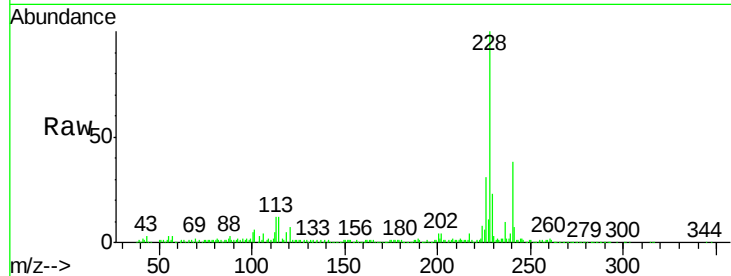
Tot Ion:240 Resp: 134935

Ion Ratio Lower Upper

240 100

120 17.8 5.8 8.8#

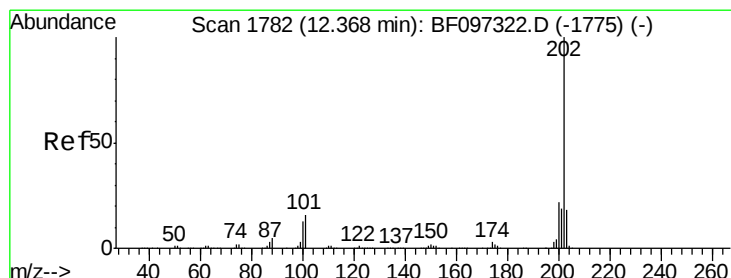
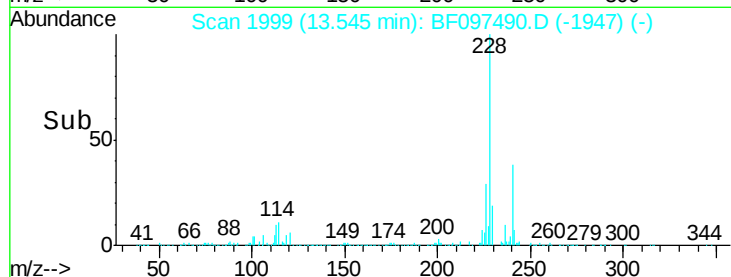
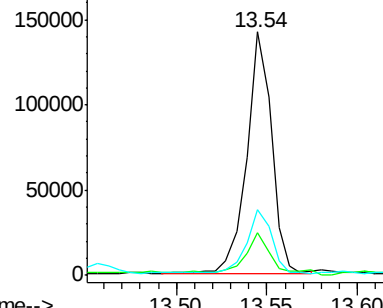
236 26.7 20.5 30.7



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: 156.91 ng

RT: 12.36 min Scan# 1797

Delta R.T. 0.02 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

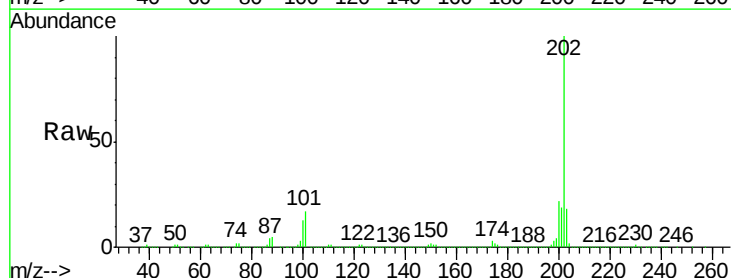
Tgt Ion:202 Resp: 1733319

Ion Ratio Lower Upper

202 100

200 22.2 17.6 26.4

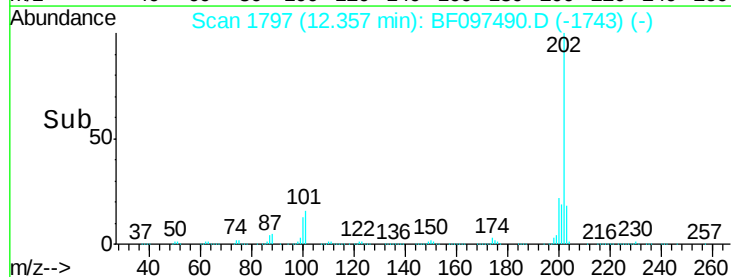
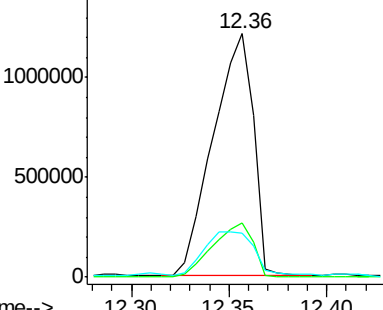
203 18.1 14.4 21.6

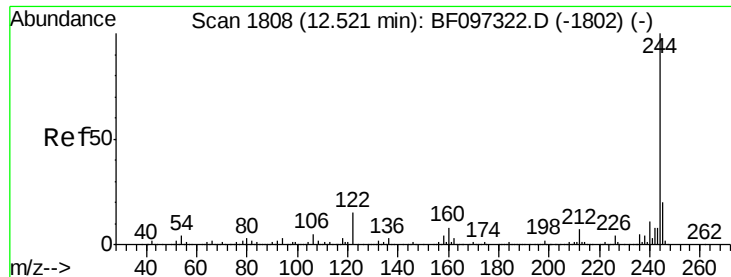


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 47.88 ng

RT: 12.49 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

Instrument :

BNA_F

ClientSampleId :

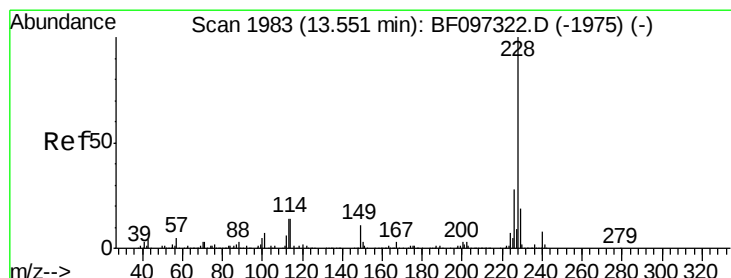
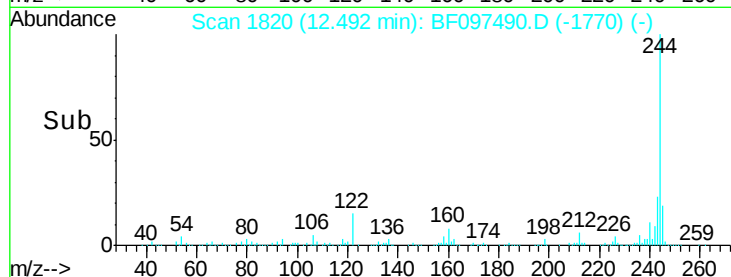
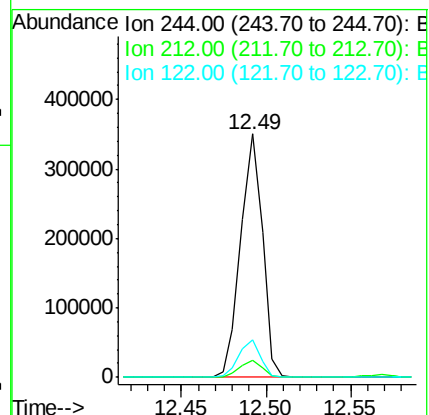
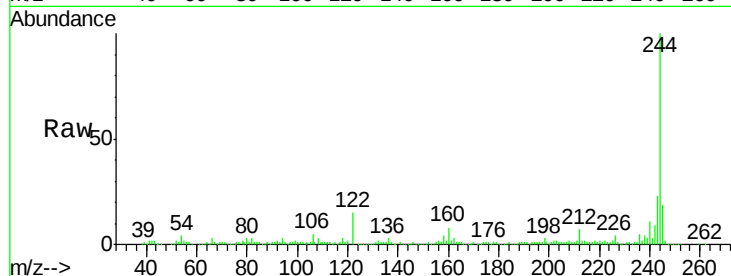
Tot Ion:244 Resp: 316866

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

122 15.3 10.3 15.5



#80

Benzo(a)anthracene

Concen: 107.21 ng

RT: 13.54 min Scan# 1998

Delta R.T. 0.01 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

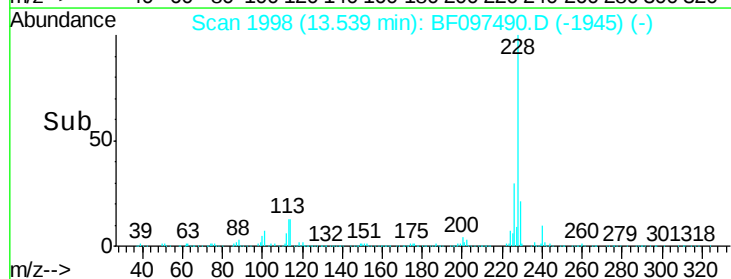
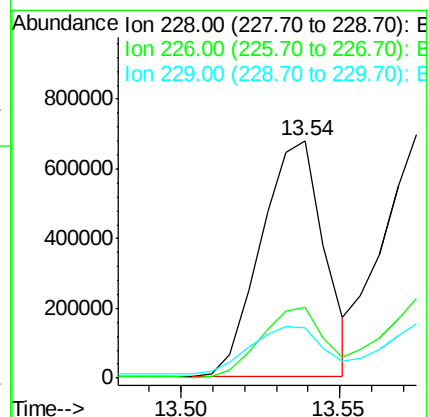
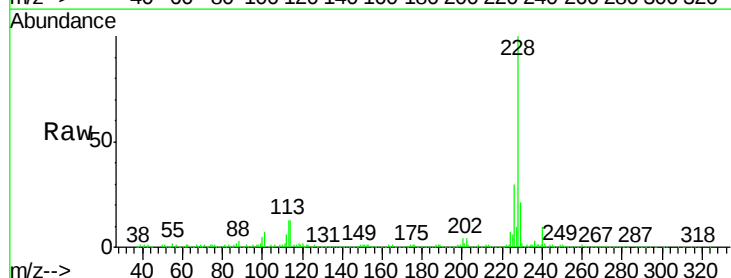
Tgt Ion:228 Resp: 936064

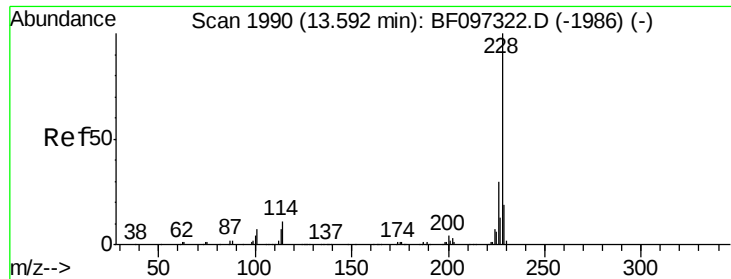
Ion Ratio Lower Upper

228 100

226 30.0 22.6 33.8

229 21.2 16.3 24.5





#82

Chrysene

Concen: 96.35 ng

RT: 13.57 min Scan# 2004

Delta R.T. 0.01 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

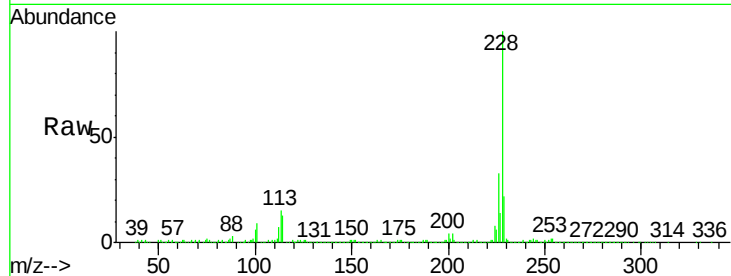
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 821403

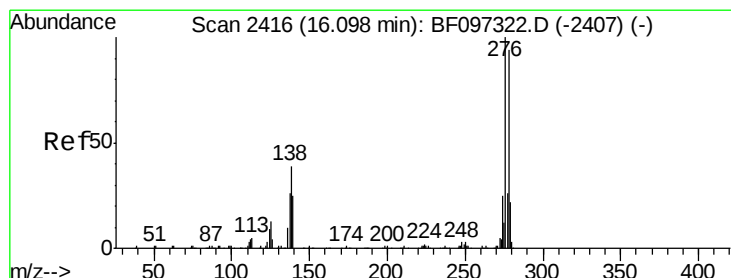
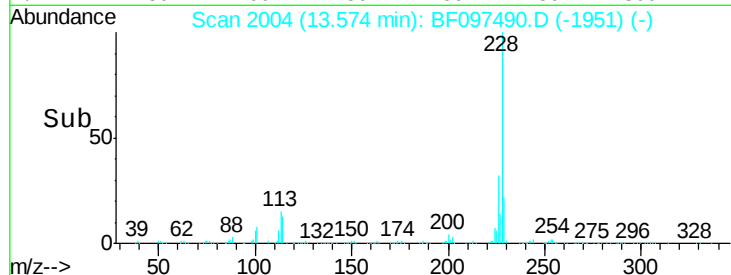
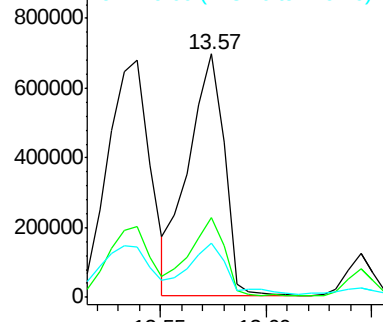
Ion	Ratio	Lower	Upper
228	100		
226	32.7	24.9	37.3
229	22.5	15.8	23.6



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: 48.56 ng

RT: 16.09 min Scan# 2431

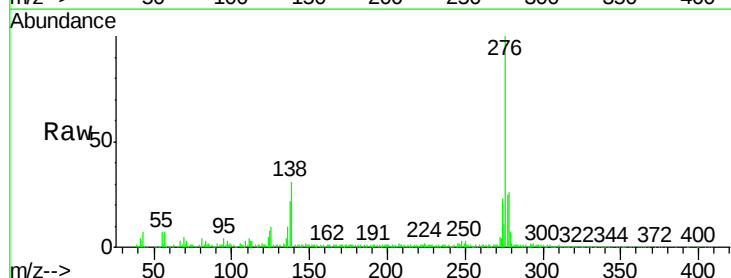
Delta R.T. 0.02 min

Lab File: BF097490.D

Acq: 9 Aug 2017 1:23

Tgt Ion:276 Resp: 354957

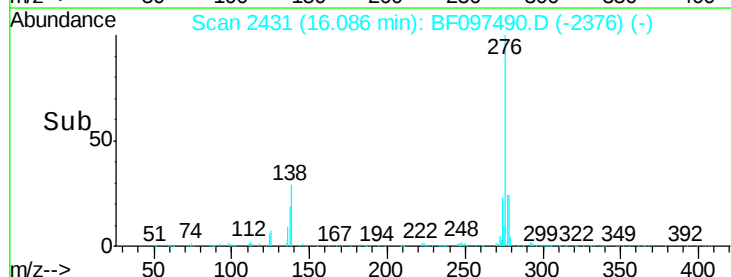
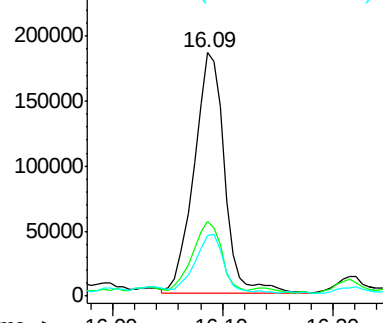
Ion	Ratio	Lower	Upper
276	100		
138	29.5	27.8	41.6
277	22.4	20.2	30.4

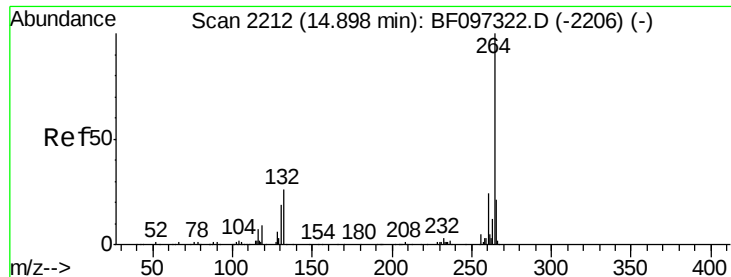


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

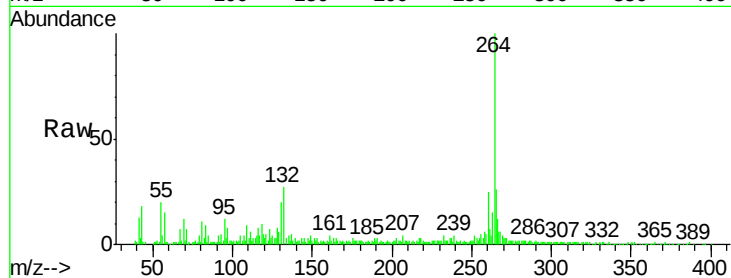




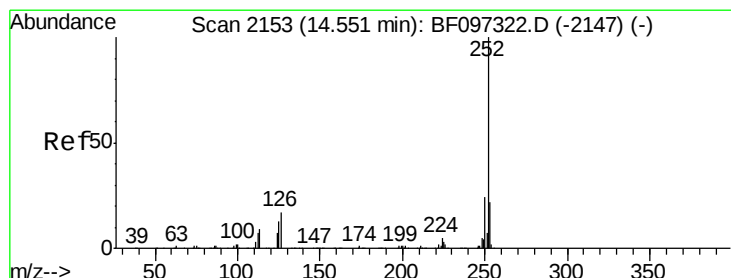
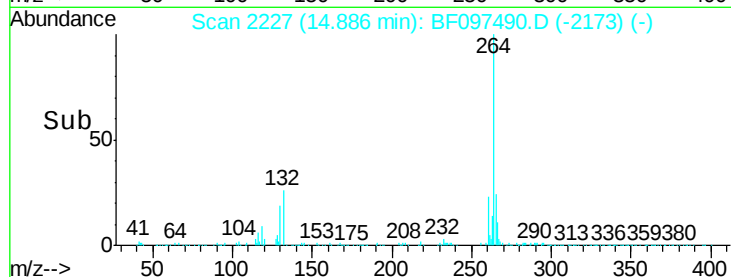
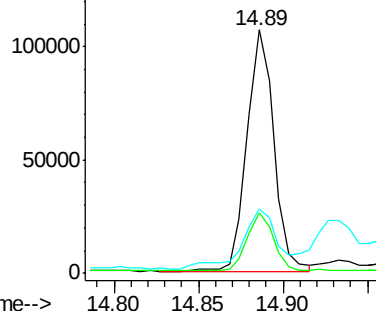
#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.89 min Scan# 2227
Delta R.T. 0.02 min
Lab File: BF097490.D
Acq: 9 Aug 2017 1:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.5	29.3
265	26.4	17.2	25.8

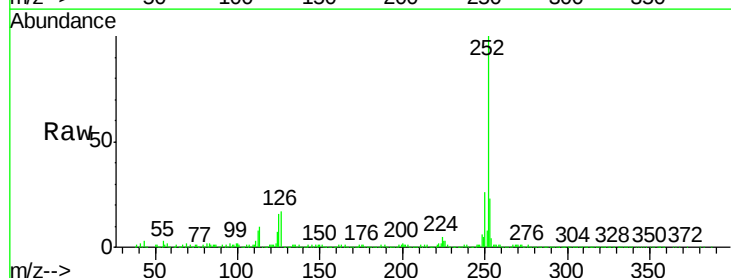


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

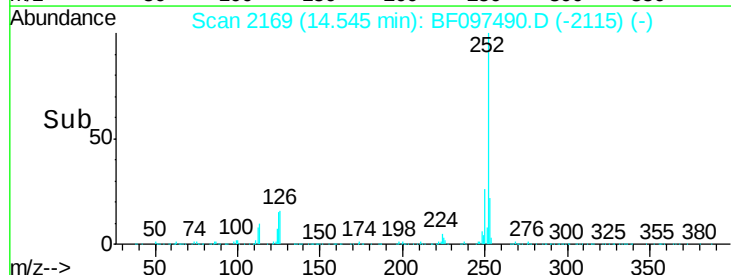
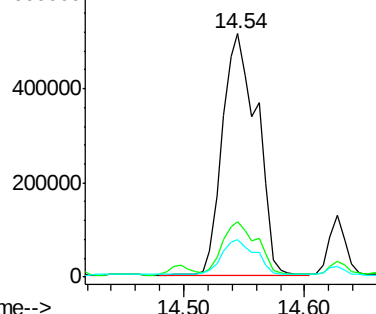


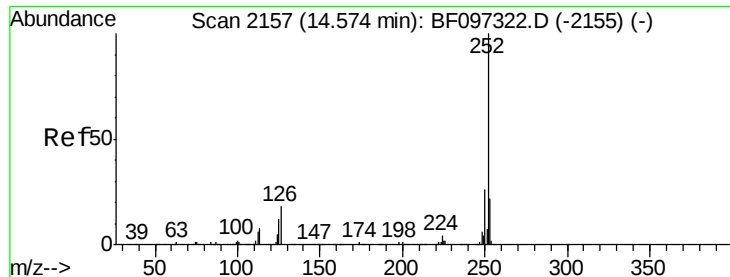
#87
Benzo(b)fluoranthene
Concen: 144.50 ng
RT: 14.54 min Scan# 2169
Delta R.T. 0.02 min
Lab File: BF097490.D
Acq: 9 Aug 2017 1:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	15.5	9.8	14.8



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

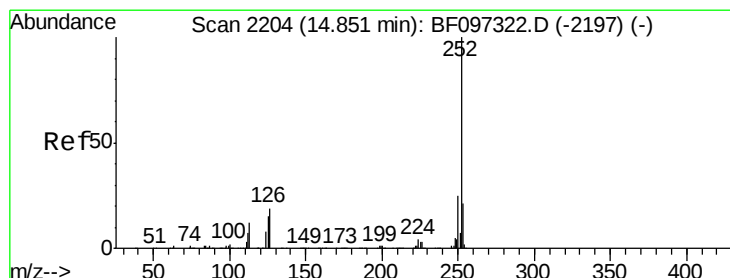
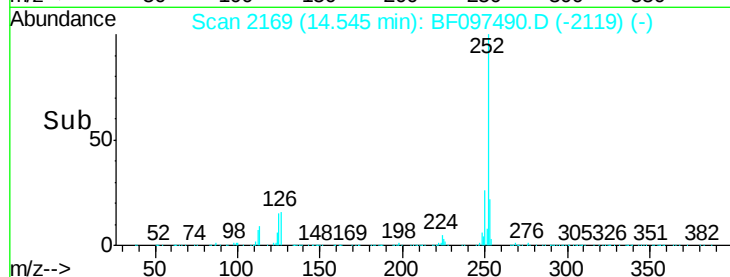
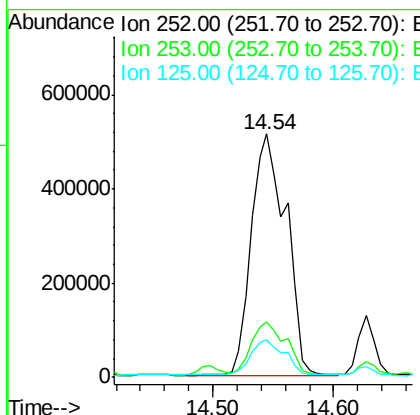
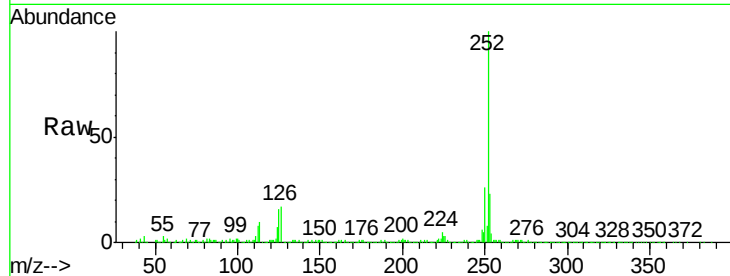




#88
Benzo(k)fluoranthene
Concen: 151.64 ng
RT: 14.54 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BF097490.D
Acq: 9 Aug 2017 1:23

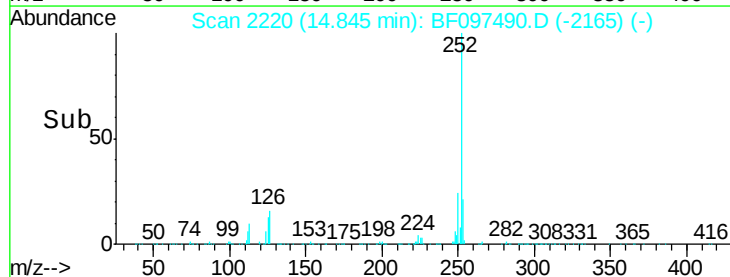
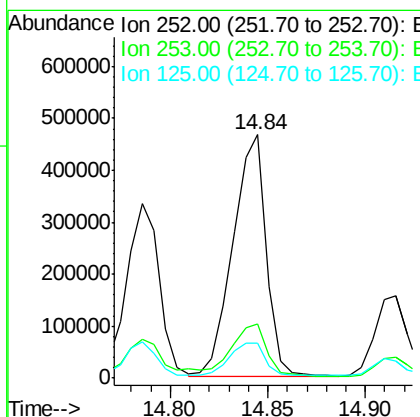
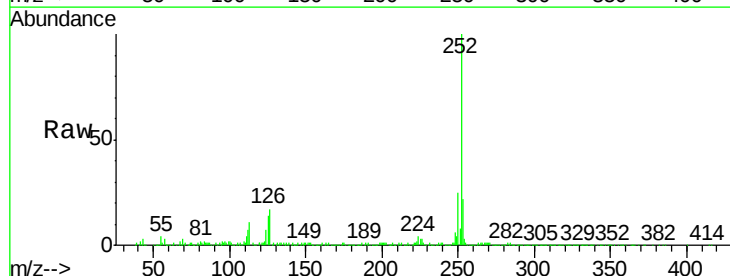
Instrument :
BNA_F
ClientSampleId :

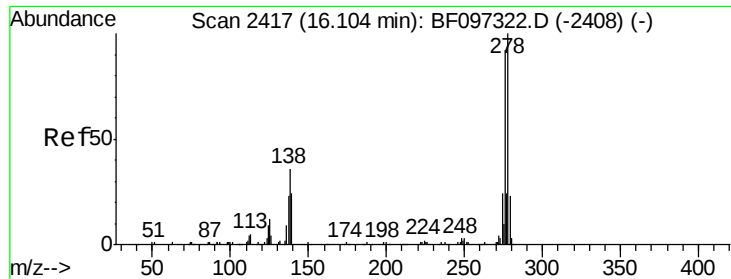
Tot Ion:252 Resp: 1037416
Ion Ratio Lower Upper
252 100
253 22.9 18.4 27.6
125 15.5 13.1 19.7



#89
Benzo(a)pyrene
Concen: 83.74 ng
RT: 14.84 min Scan# 2220
Delta R.T. 0.02 min
Lab File: BF097490.D
Acq: 9 Aug 2017 1:23

Tgt Ion:252 Resp: 550198
Ion Ratio Lower Upper
252 100
253 22.0 17.5 26.3
125 14.3 11.0 16.4

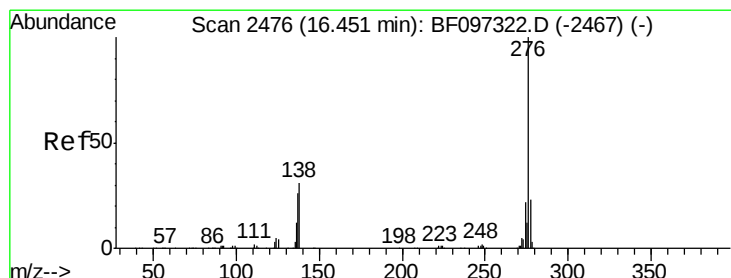
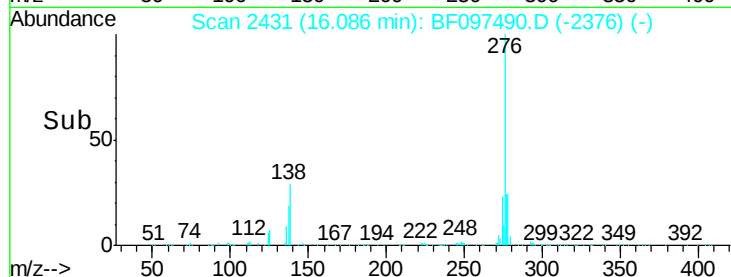
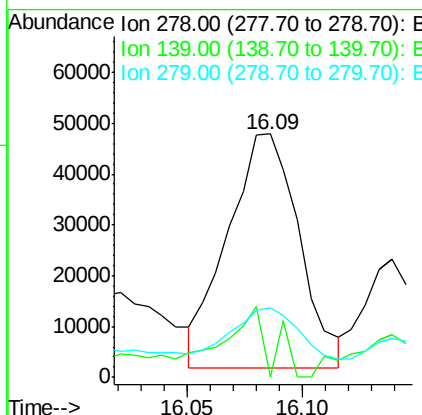
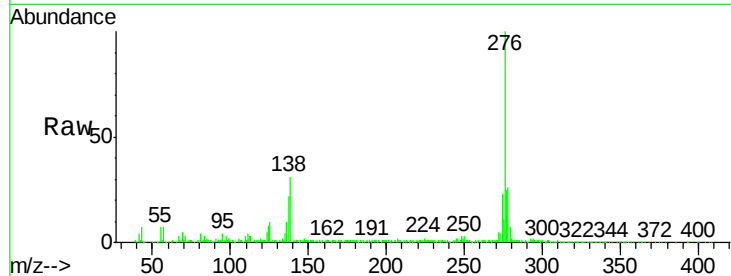




#90
Dibenzo(a,h)anthracene
Concen: 18.40 ng
RT: 16.09 min Scan# 2431
Delta R.T. 0.02 min
Lab File: BF097490.D
Acq: 9 Aug 2017 1:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 99120
Ion Ratio Lower Upper
278 100
139 0.0 16.6 24.8#
279 28.4 19.3 28.9



#91
Benzo(g,h,i)perylene
Concen: 57.06 ng
RT: 16.44 min Scan# 2492
Delta R.T. 0.04 min
Lab File: BF097490.D
Acq: 9 Aug 2017 1:23

Tgt Ion:276 Resp: 322392
Ion Ratio Lower Upper
276 100
277 25.5 18.6 28.0
138 31.4 25.4 38.0

