

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080217\
 Data File : BF097293.D
 Acq On : 3 Aug 2017 00:25
 Operator : SJ/JU
 Sample : I4539-01
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 03 02:06:02 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.45	152	123100	20.00	ng	-0.05
21) Naphthalene-d8	7.73	136	439355	20.00	ng	-0.05
38) Acenaphthene-d10	9.47	164	191226	20.00	ng	-0.06
63) Phenanthrene-d10	10.95	188	274486	20.00	ng	-0.05
75) Chrysene-d12	13.57	240	204191	20.00	ng	-0.05
86) Perylene-d12	14.92	264	146825	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	788243	96.53	ng	-0.04
7) Phenol-d6	6.13	99	1100667	118.07	ng	-0.04
23) Nitrobenzene-d5	7.02	82	656673	87.68	ng	-0.05
41) 2,4,6-Tribromophenol	10.27	330	153996	101.93	ng	-0.05
44) 2-Fluorobiphenyl	8.82	172	919752	81.63	ng	-0.05
78) Terphenyl-d14	12.53	244	526733	52.59	ng	-0.05

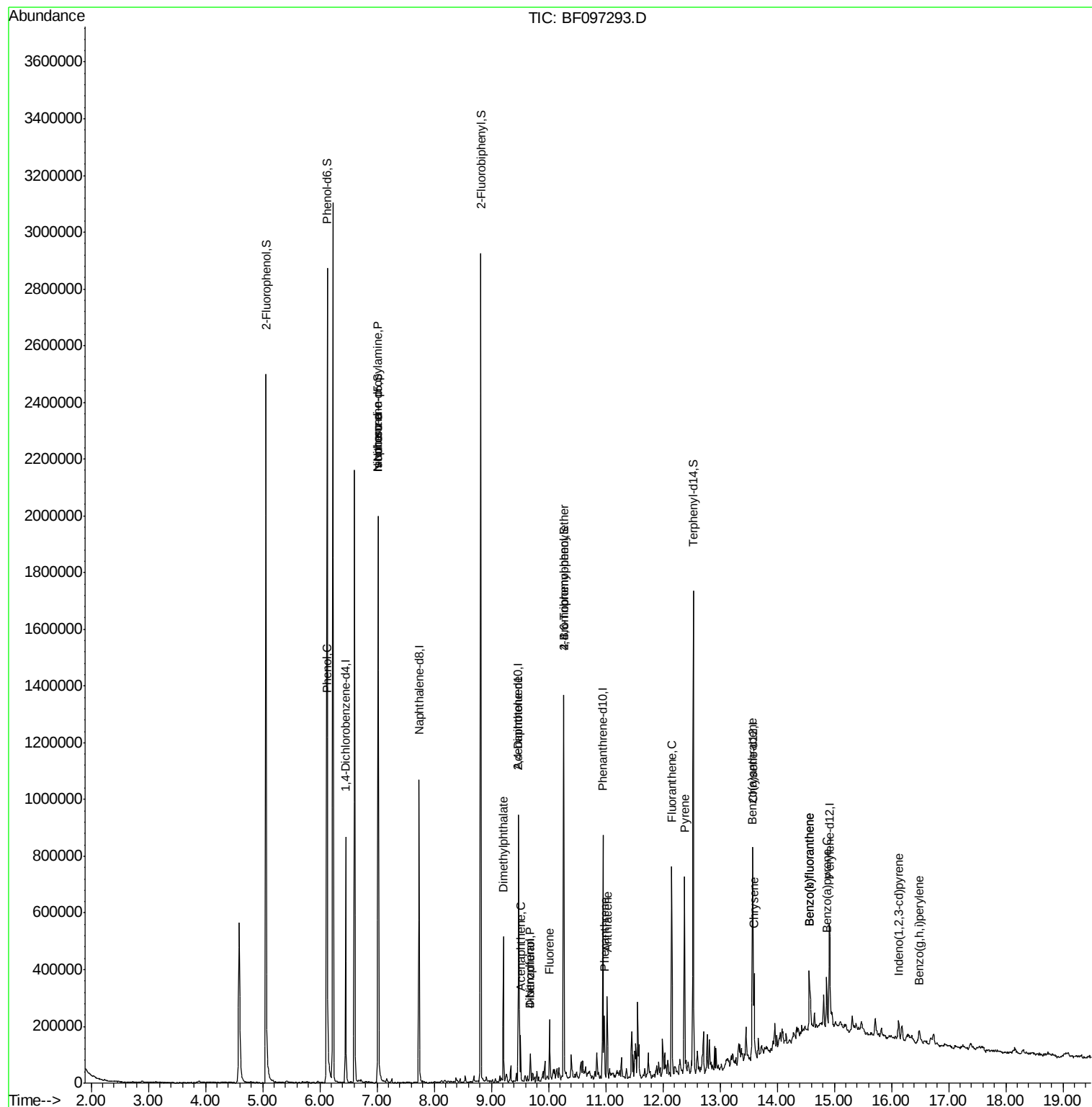
Target Compounds						Qvalue
10) Phenol	6.14	94	23902	2.16	ng	93
19) n-Nitroso-di-n-propylamine	7.02	70	85881	14.00	ng	# 85
25) Isophorone	7.02	82	643044	43.84	ng	# 67
49) Dimethylphthalate	9.21	163	193974	13.36	ng	99
51) Acenaphthene	9.51	154	32365	2.98	ng	93
54) Dibenzofuran	9.68	168	32711	2.26	ng	96
55) 4-Nitrophenol	9.68	139	12771	5.62	ng	# 27
56) 2,4-Dinitrotoluene	9.47	165	24592	6.95	ng	# 33
57) Fluorene	10.02	166	53007	4.87	ng	96
66) 4-Bromophenyl-phenylether	10.27	248	10442	3.81	ng	# 1
70) Phenanthrene	10.97	178	74615	5.07	ng	98
71) Anthracene	11.03	178	102368	6.80	ng	97
74) Fluoranthene	12.16	202	285233	19.80	ng	97
77) Pyrene	12.38	202	273504	16.36	ng	99
80) Benzo(a)anthracene	13.56	228	129204	9.78	ng	98
82) Chrysene	13.60	228	109937	8.52	ng	97
85) Indeno(1,2,3-cd)pyrene	16.12	276	28833	2.61	ng	94
87) Benzo(b)fluoranthene	14.56	252	126073	14.28	ng	# 96
88) Benzo(k)fluoranthene	14.56	252	126073	14.99	ng	100
89) Benzo(a)pyrene	14.87	252	71740	8.88	ng	97
91) Benzo(g,h,i)perylene	16.49	276	30838	4.44	ng	98

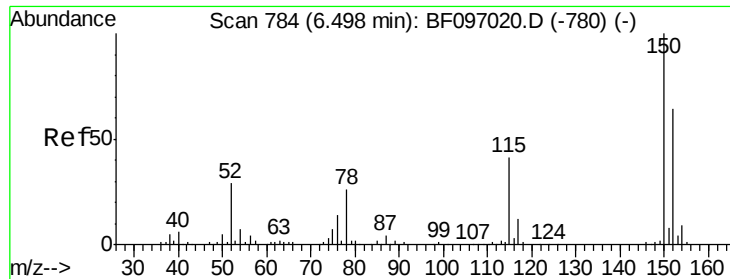
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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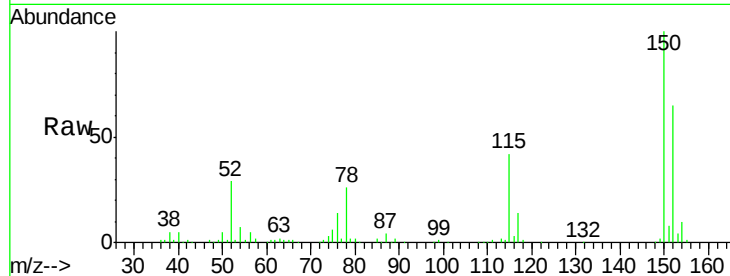


#1

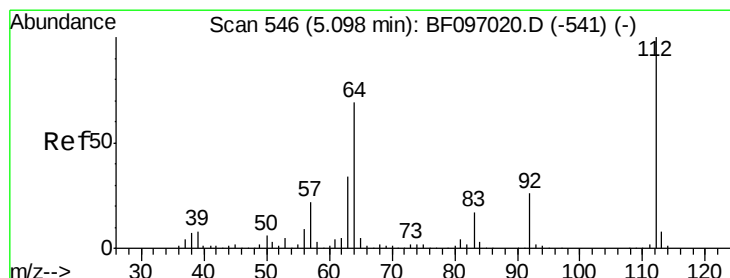
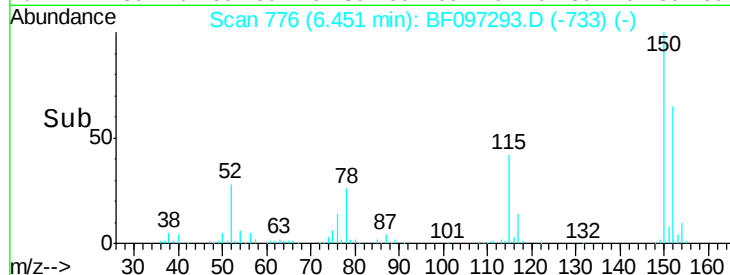
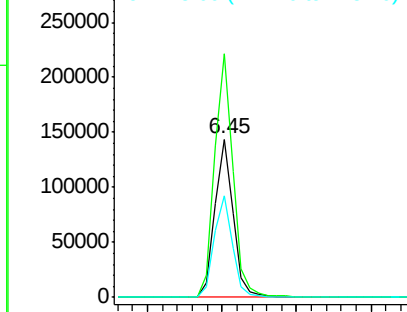
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.45 min Scan# 776
Delta R.T. -0.05 min
Lab File: BF097293.D
Acq: 3 Aug 2017 00:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	126.2	189.2
115	64.0	52.2	78.2



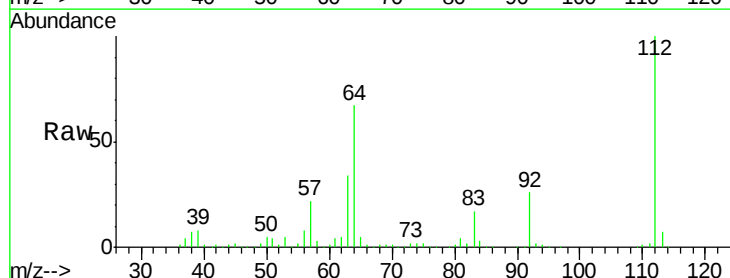
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



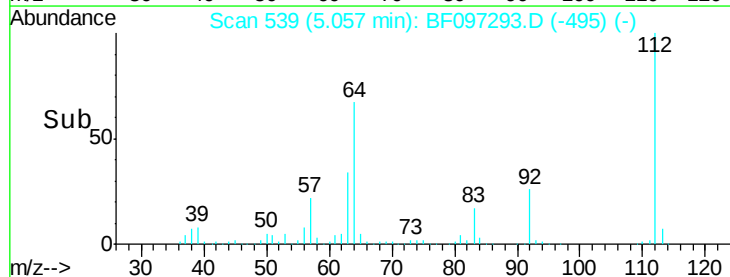
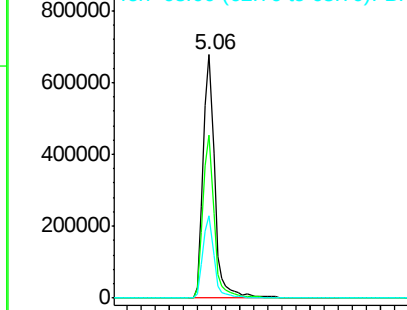
#5

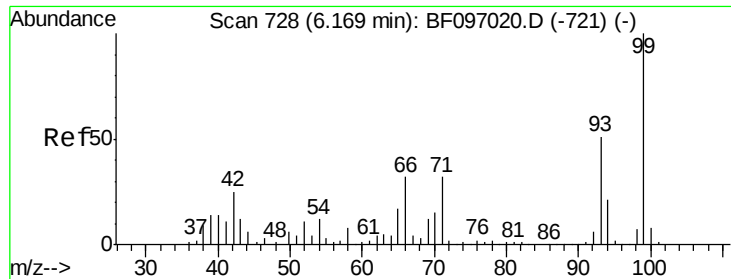
2-Fluorophenol
Concen: 96.53 ng
RT: 5.06 min Scan# 539
Delta R.T. -0.04 min
Lab File: BF097293.D
Acq: 3 Aug 2017 00:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.8	46.0	69.0
63	33.7	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: 118.07 ng

RT: 6.13 min Scan# 721

Delta R.T. -0.04 min

Lab File: BF097293.D

Acq: 3 Aug 2017 00:25

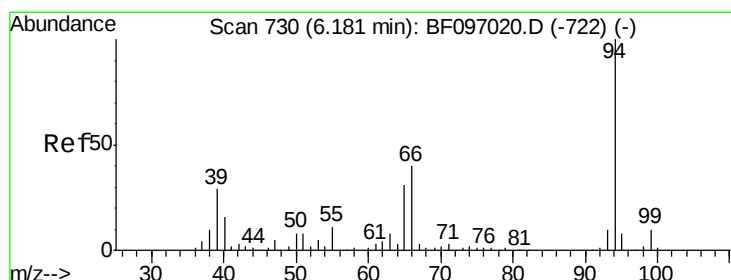
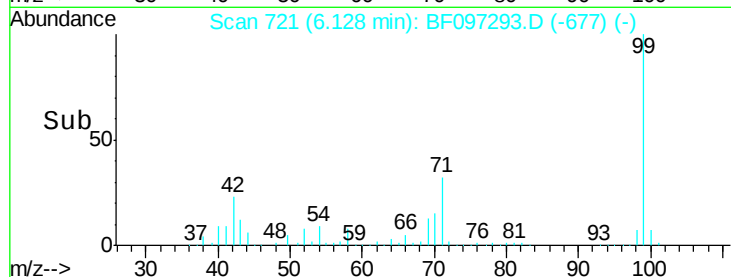
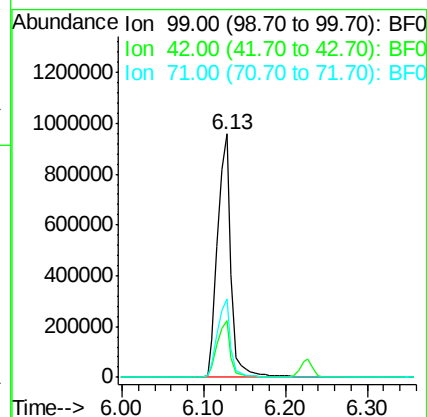
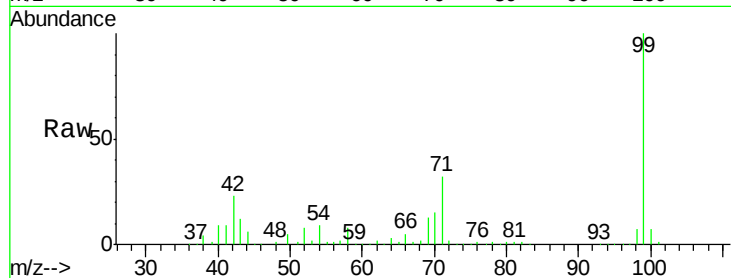
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1100667

Ion	Ratio	Lower	Upper
99	100		
42	23.5	13.5	20.3#
71	32.5	24.5	36.7



#10

Phenol

Concen: 2.16 ng

RT: 6.14 min Scan# 723

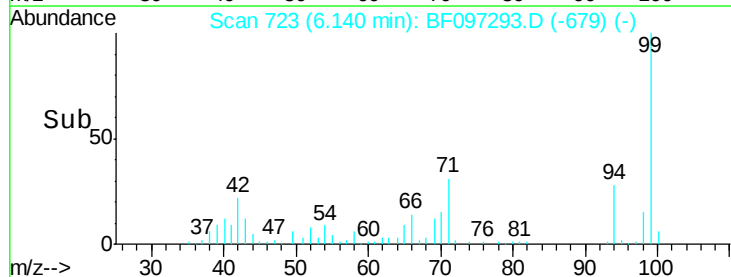
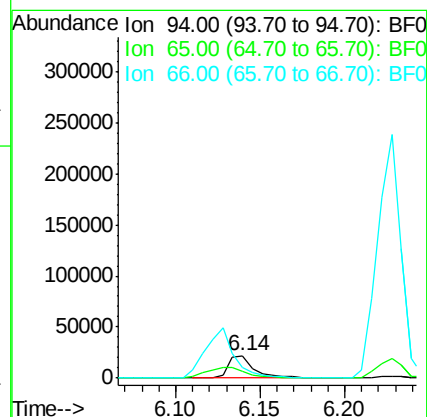
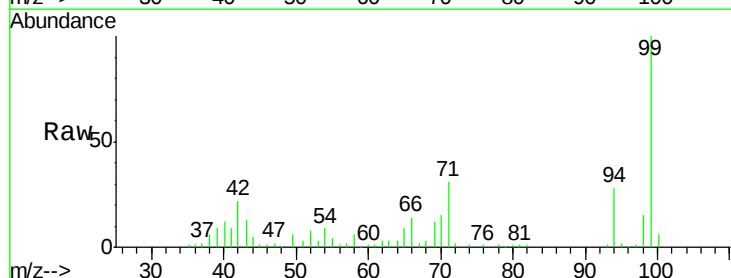
Delta R.T. -0.04 min

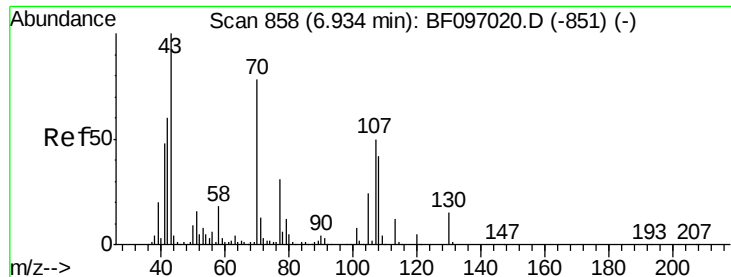
Lab File: BF097293.D

Acq: 3 Aug 2017 00:25

Tgt Ion: 94 Resp: 23902

Ion	Ratio	Lower	Upper
94	100		
65	32.7	9.9	49.9
66	48.4	23.1	63.1

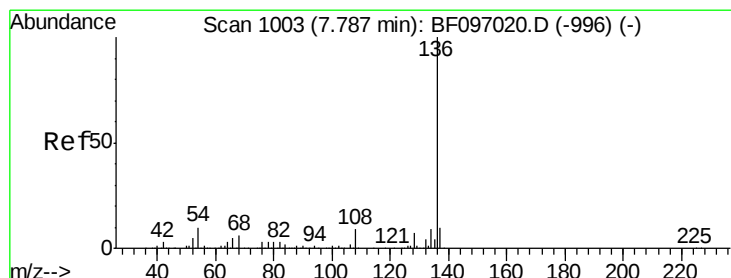
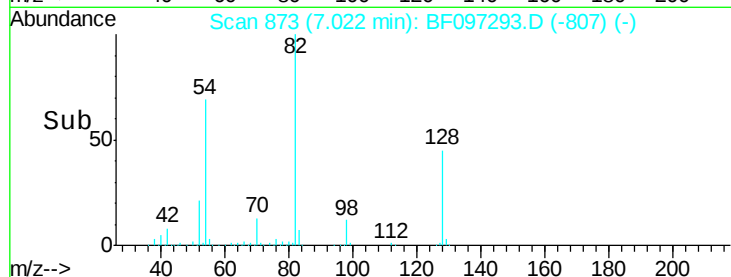
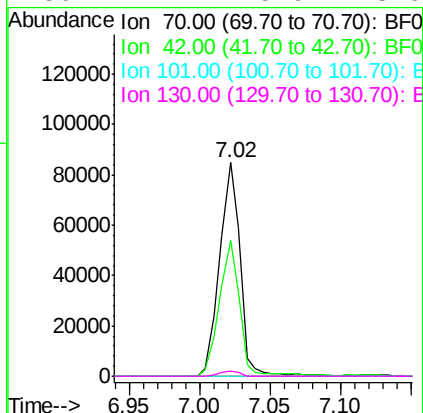
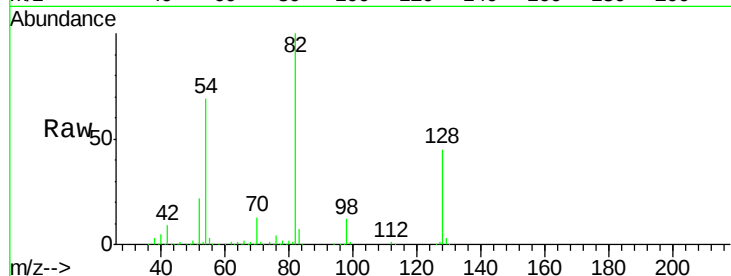




#19
n-Nitroso-di-n-propylamine
Concen: 14.00 ng
RT: 7.02 min Scan# 873
Delta R.T. 0.09 min
Lab File: BF097293.D
Acq: 3 Aug 2017 00:25

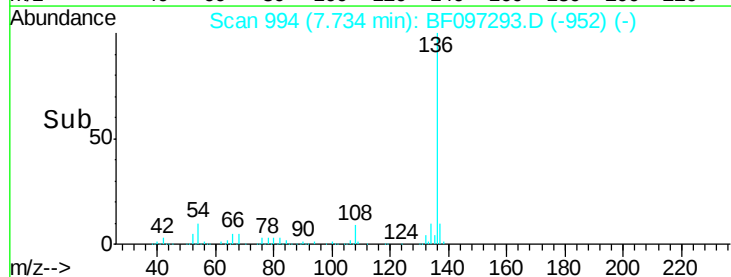
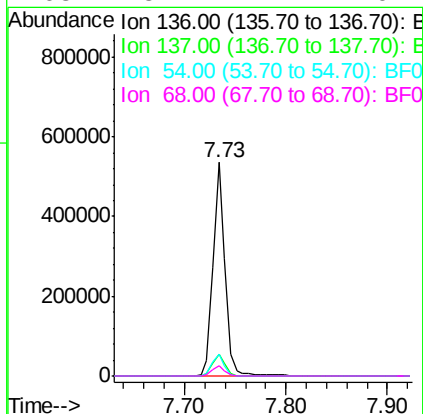
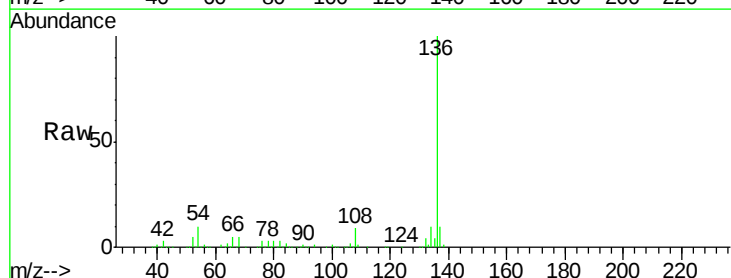
Instrument :
BNA_F
ClientSampleId :

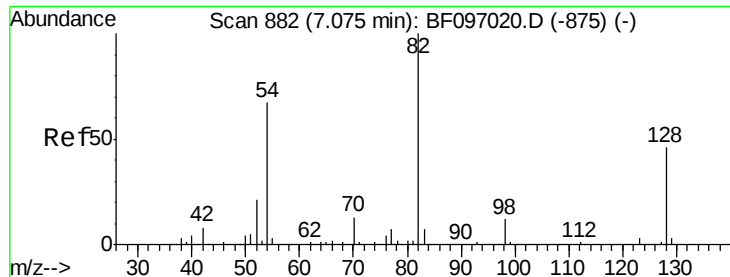
Tot Ion: 70 Resp: 85881
Ion Ratio Lower Upper
70 100
42 63.4 47.2 70.8
101 0.0 7.2 10.8#
130 2.2 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.73 min Scan# 994
Delta R.T. -0.05 min
Lab File: BF097293.D
Acq: 3 Aug 2017 00:25

Tgt Ion:136 Resp: 439355
Ion Ratio Lower Upper
136 100
137 10.5 8.5 12.7
54 10.4 4.9 7.3#
68 5.1 4.1 6.1

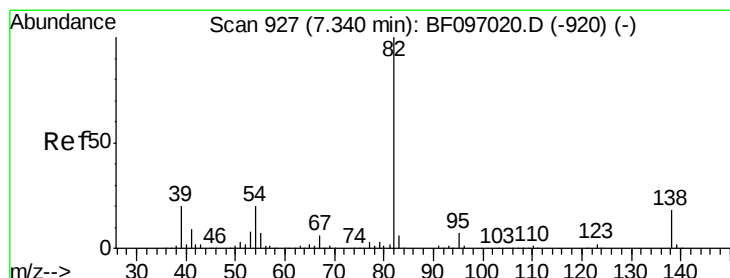
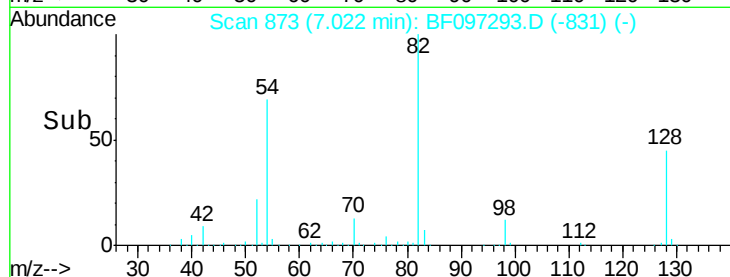
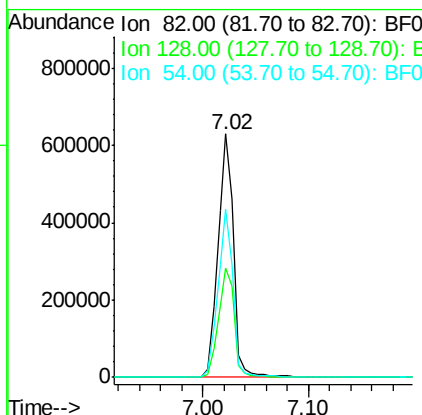
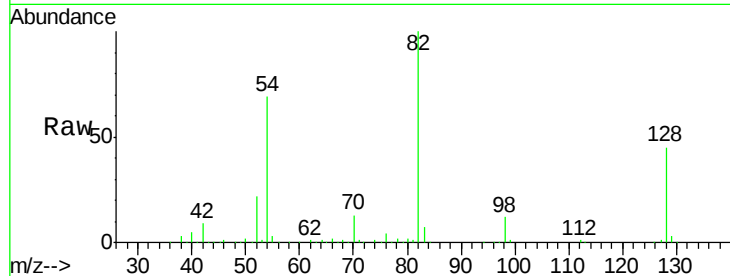




#23
 Nitrobenzene-d5
 Concen: 87.68 ng
 RT: 7.02 min Scan# 873
 Delta R.T. -0.05 min
 Lab File: BF097293.D
 Acq: 3 Aug 2017 00:25

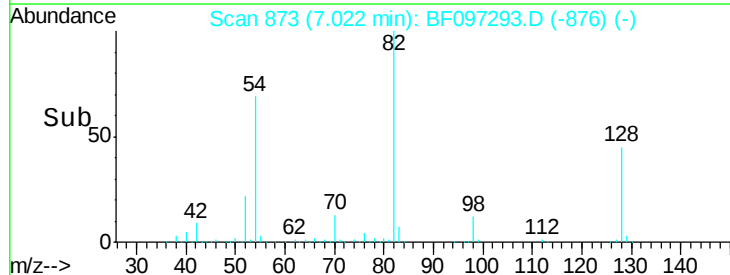
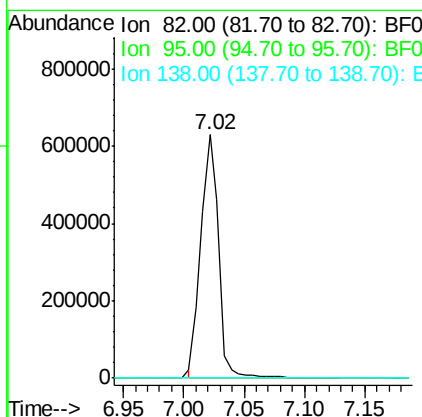
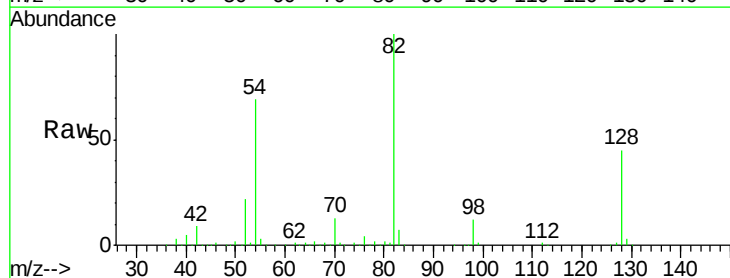
Instrument :
 BNA_F
 ClientSampleId :

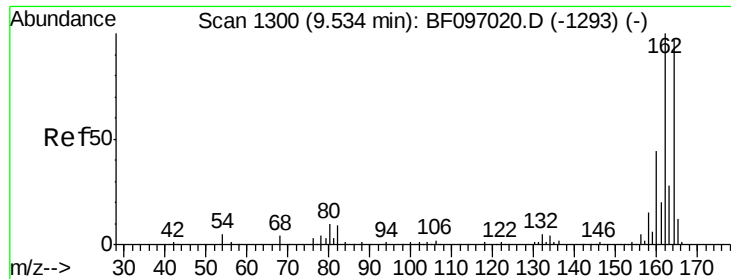
Tot Ion: 82 Resp: 656673
 Ion Ratio Lower Upper
 82 100
 128 44.7 34.0 51.0
 54 69.1 42.2 63.2#



#25
 Isophorone
 Concen: 43.84 ng
 RT: 7.02 min Scan# 873
 Delta R.T. -0.32 min
 Lab File: BF097293.D
 Acq: 3 Aug 2017 00:25

Tgt Ion: 82 Resp: 643044
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.3 7.9#
 138 0.0 13.1 19.7#

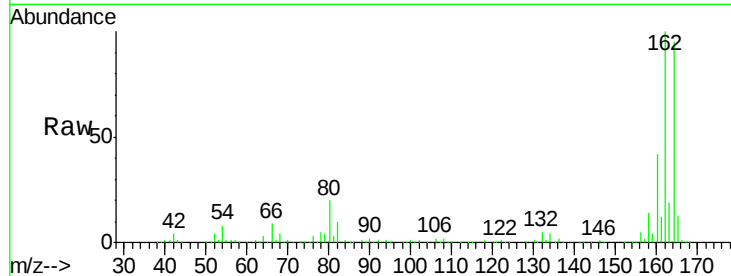




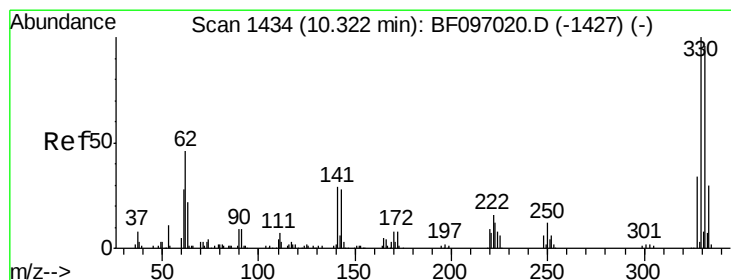
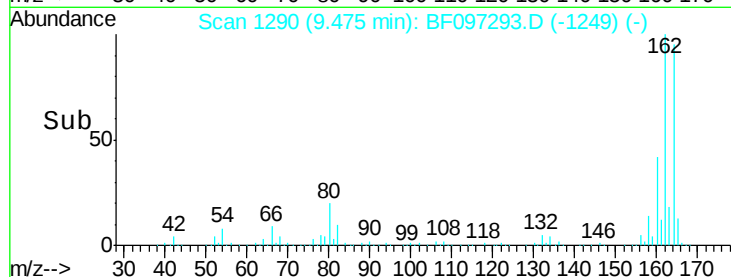
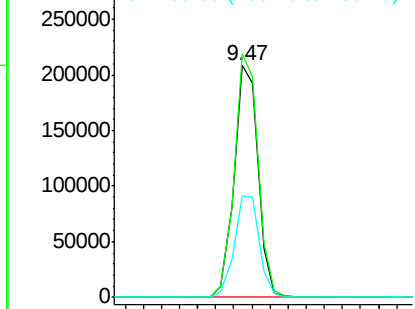
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.47 min Scan# 1290
 Delta R.T. -0.06 min
 Lab File: BF097293.D
 Acq: 3 Aug 2017 00:25

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:164 Resp: 191226
 Ion Ratio Lower Upper
 164 100
 162 104.9 82.6 123.8
 160 43.8 36.2 54.2

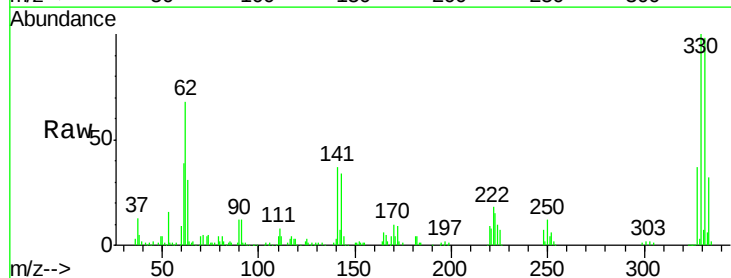


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

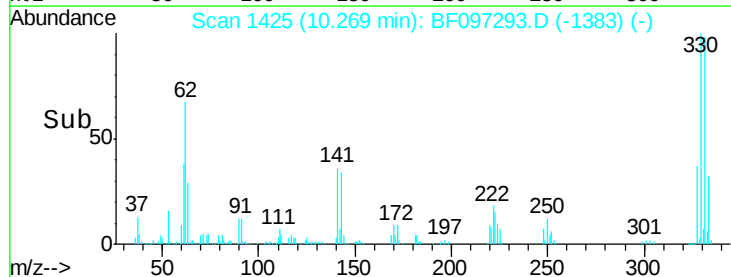
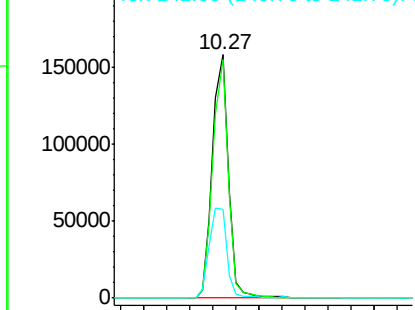


#41
 2,4,6-Tribromophenol
 Concen: 101.93 ng
 RT: 10.27 min Scan# 1425
 Delta R.T. -0.05 min
 Lab File: BF097293.D
 Acq: 3 Aug 2017 00:25

Tgt Ion:330 Resp: 153996
 Ion Ratio Lower Upper
 330 100
 332 95.0 76.6 115.0
 141 41.5 31.4 47.2



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

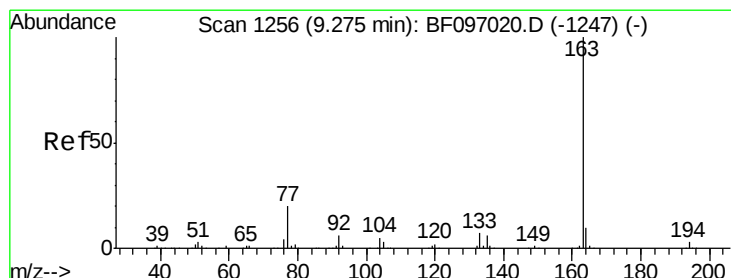
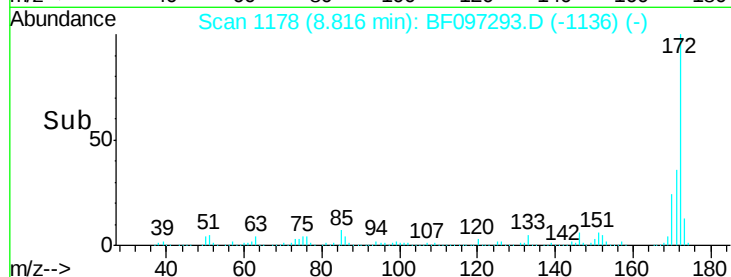
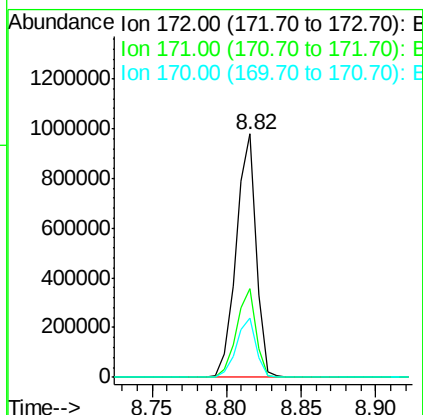
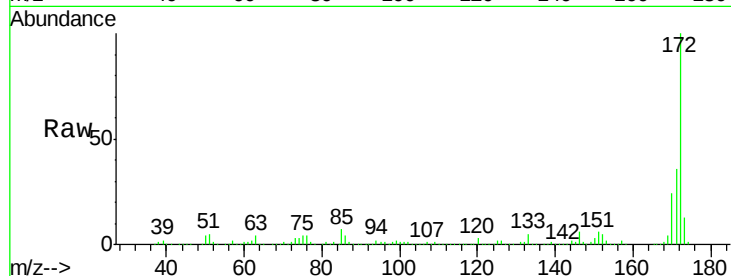




#44
2-Fluorobiphenyl
Concen: 81.63 ng
RT: 8.82 min Scan# 1178
Delta R.T. -0.05 min
Lab File: BF097293.D
Acq: 3 Aug 2017 00:25

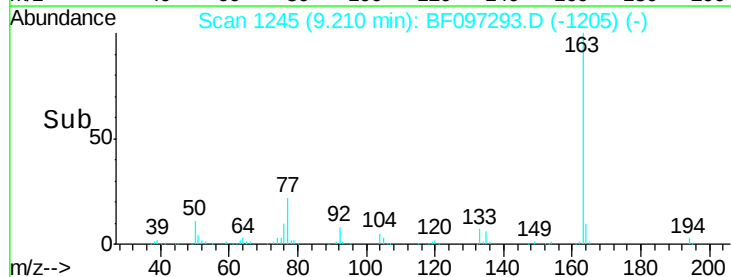
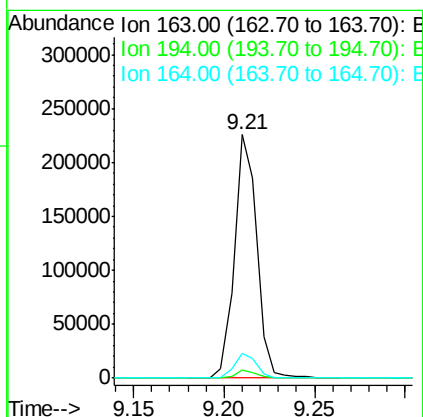
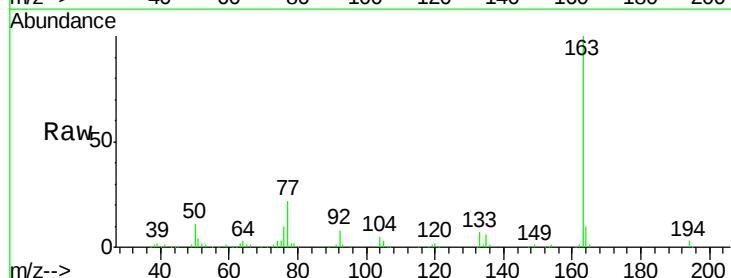
Instrument :
BNA_F
ClientSampleId :

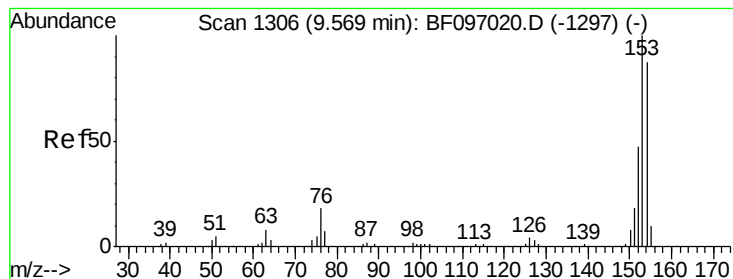
Tot Ion:172 Resp: 919752
Ion Ratio Lower Upper
172 100
171 36.2 29.6 44.4
170 24.3 19.8 29.8



#49
Dimethylphthalate
Concen: 13.36 ng
RT: 9.21 min Scan# 1245
Delta R.T. -0.06 min
Lab File: BF097293.D
Acq: 3 Aug 2017 00:25

Tgt Ion:163 Resp: 193974
Ion Ratio Lower Upper
163 100
194 3.1 2.6 4.0
164 10.2 8.4 12.6





#51

Acenaphthene

Concen: 2.98 ng

RT: 9.51 min Scan# 1296

Delta R.T. -0.06 min

Lab File: BF097293.D

Acq: 3 Aug 2017 00:25

Instrument :

BNA_F

ClientSampleId :

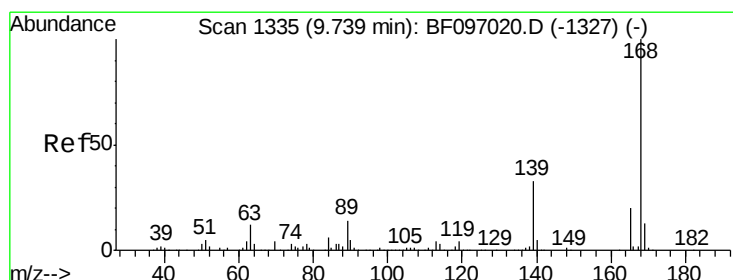
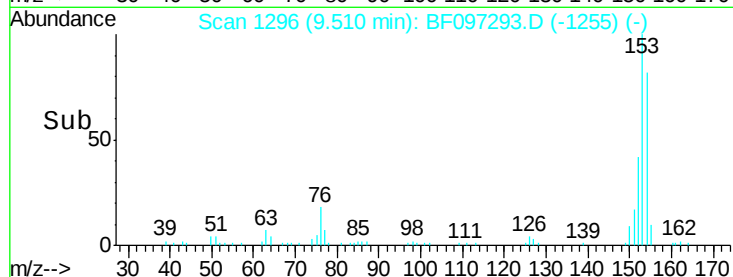
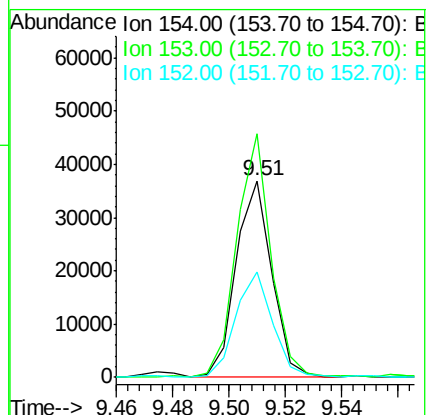
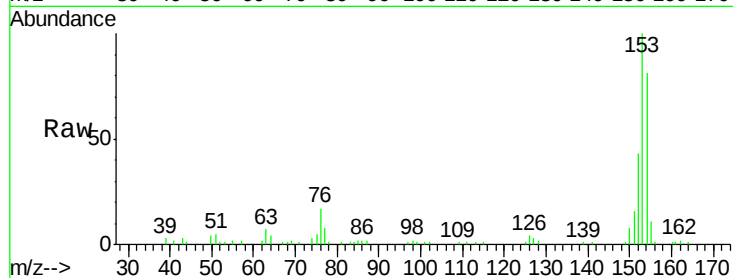
Tot Ion:154 Resp: 32365

Ion Ratio Lower Upper

154 100

153 123.7 90.5 135.7

152 53.2 43.6 65.4



#54

Dibenzofuran

Concen: 2.26 ng

RT: 9.68 min Scan# 1325

Delta R.T. -0.06 min

Lab File: BF097293.D

Acq: 3 Aug 2017 00:25

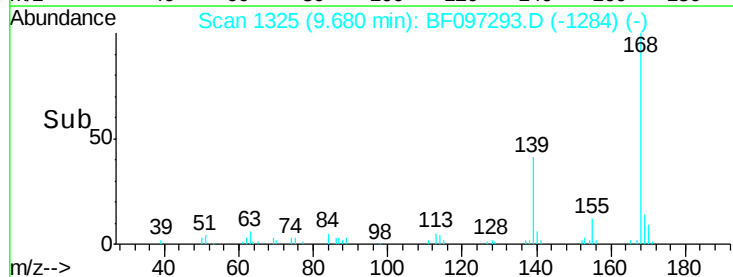
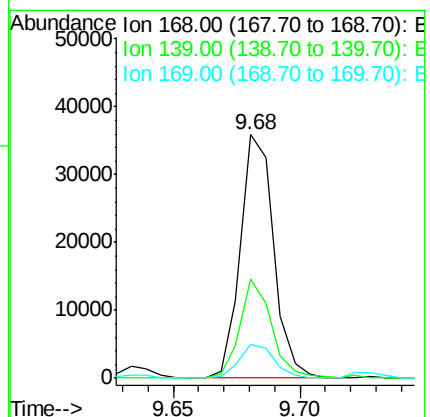
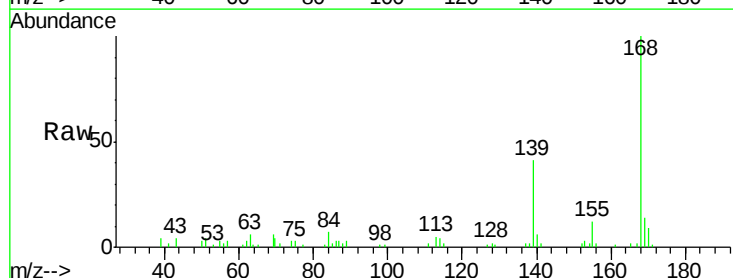
Tgt Ion:168 Resp: 32711

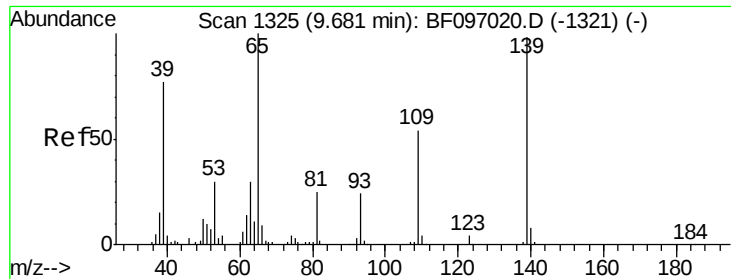
Ion Ratio Lower Upper

168 100

139 40.9 30.6 45.8

169 14.0 10.8 16.2

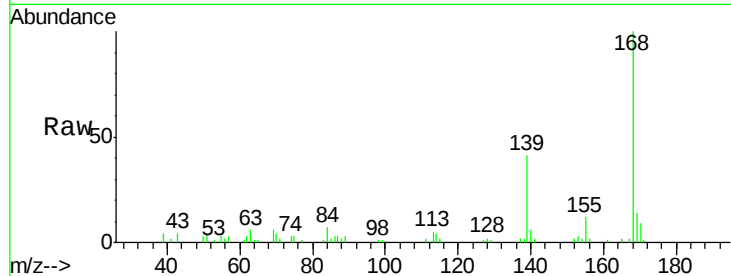




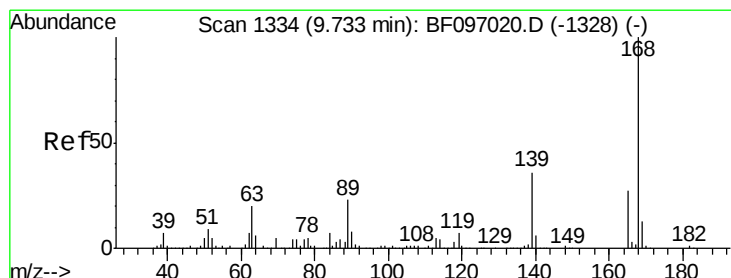
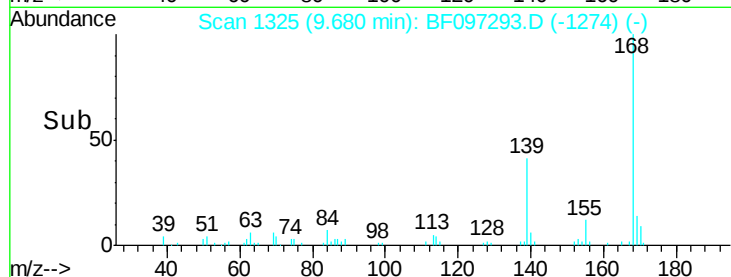
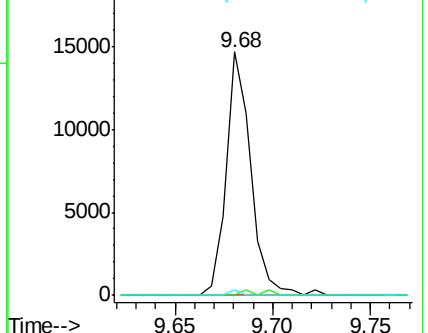
#55
4-Nitrophenol
Concen: 5.62 ng
RT: 9.68 min Scan# 1325
Delta R.T. -0.00 min
Lab File: BF097293.D
Acq: 3 Aug 2017 00:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	34.1	74.1#
65	2.3	31.4	71.4#



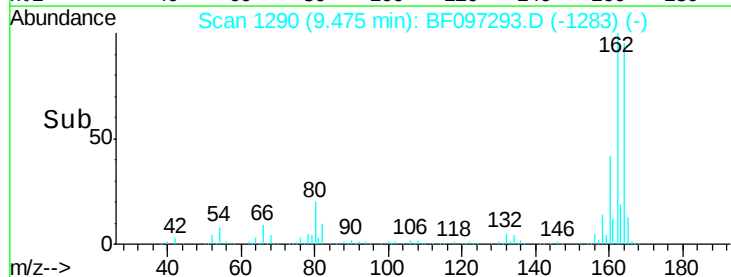
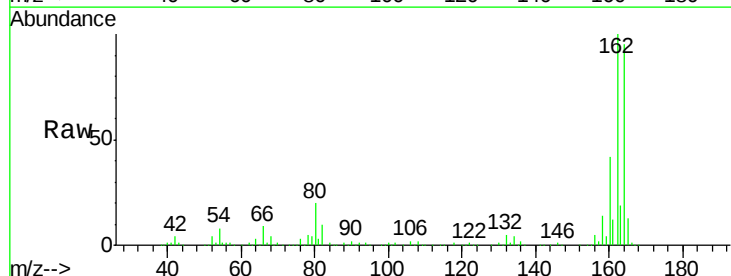
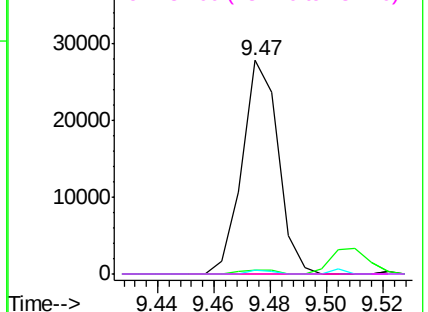
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

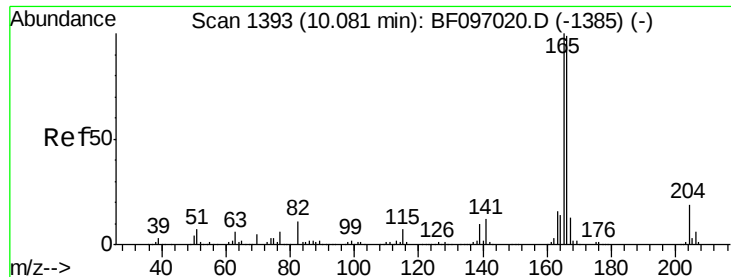


#56
2,4-Dinitrotoluene
Concen: 6.95 ng
RT: 9.47 min Scan# 1290
Delta R.T. -0.26 min
Lab File: BF097293.D
Acq: 3 Aug 2017 00:25

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	25.4	38.0#
89	1.7	46.4	69.6#
182	0.0	1.8	2.6#

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
Ion 182.00 (181.70 to 182.70): E





#57

Fluorene

Concen: 4.87 ng

RT: 10.02 min Scan# 1383

Delta R.T. -0.06 min

Lab File: BF097293.D

Acq: 3 Aug 2017 00:25

Instrument :

BNA_F

ClientSampleId :

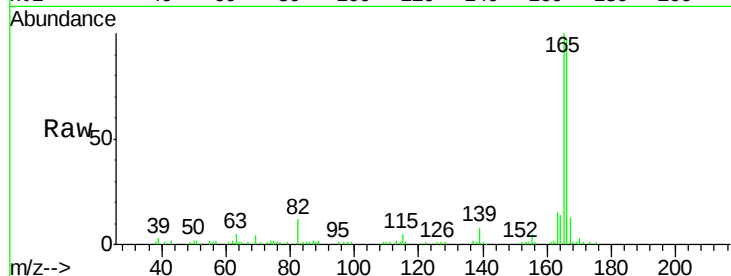
Tot Ion:166 Resp: 53007

Ion Ratio Lower Upper

166 100

165 102.8 78.8 118.2

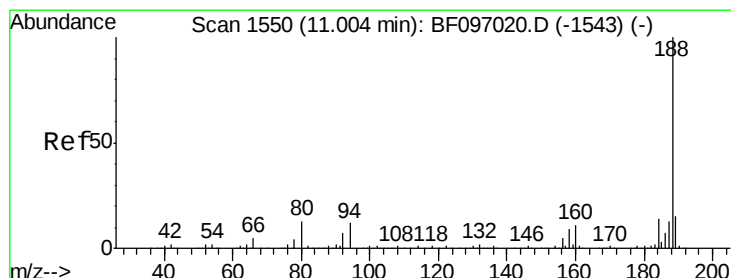
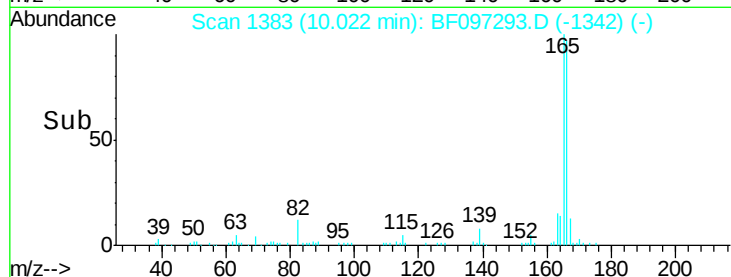
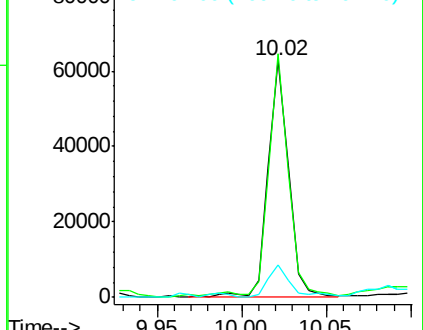
167 13.6 10.6 16.0



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: 10.95 min Scan# 1541

Delta R.T. -0.05 min

Lab File: BF097293.D

Acq: 3 Aug 2017 00:25

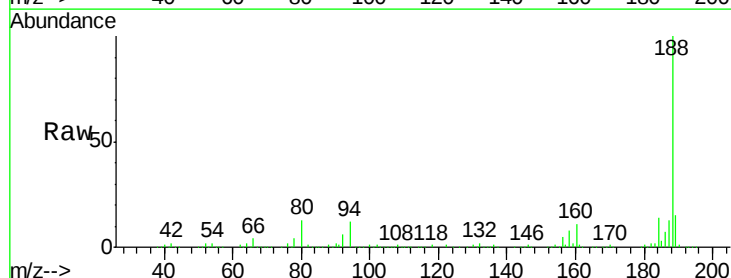
Tgt Ion:188 Resp: 274486

Ion Ratio Lower Upper

188 100

94 12.3 9.4 14.2

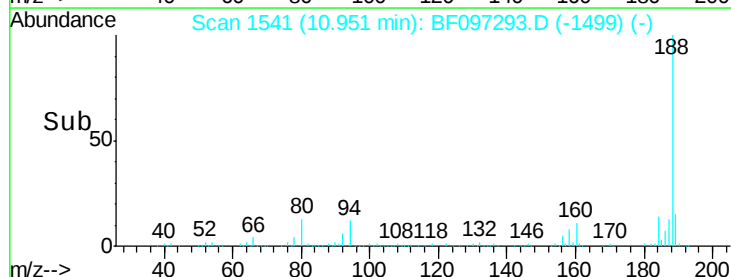
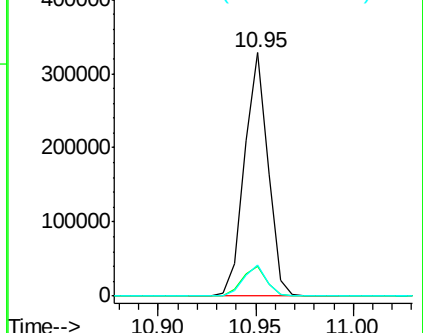
80 13.0 10.2 15.2

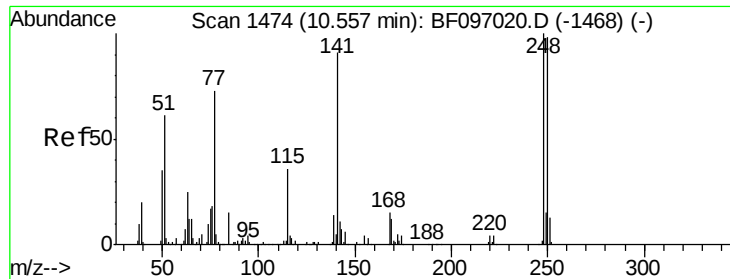


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

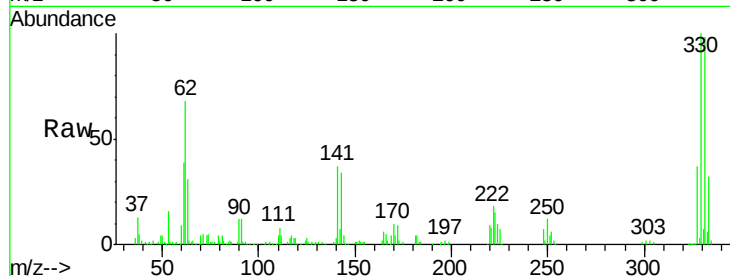




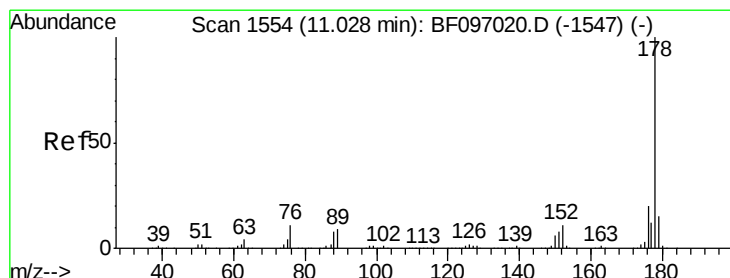
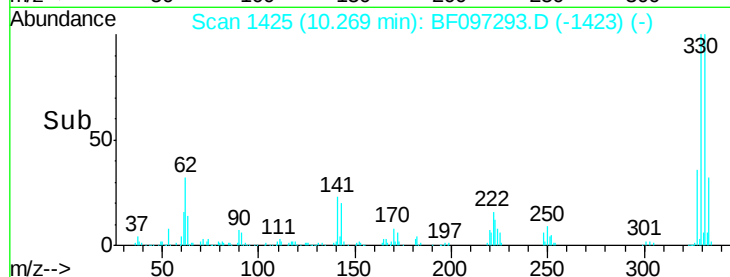
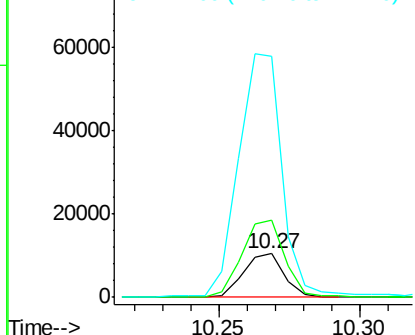
#66
 4-Bromophenyl-phenylether
 Concen: 3.81 ng
 RT: 10.27 min Scan# 1425
 Delta R.T. -0.29 min
 Lab File: BF097293.D
 Acq: 3 Aug 2017 00:25

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:248 Resp: 10442
 Ion Ratio Lower Upper
 248 100
 250 178.0 76.8 115.2#
 141 554.1 68.6 103.0#

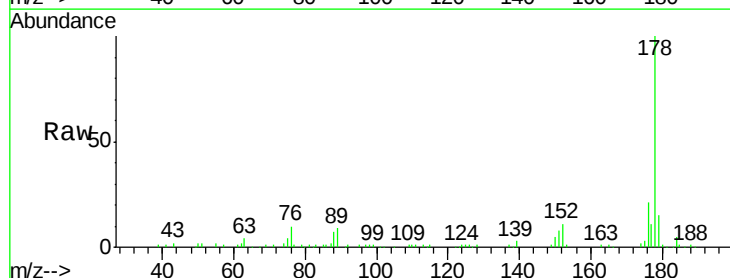


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

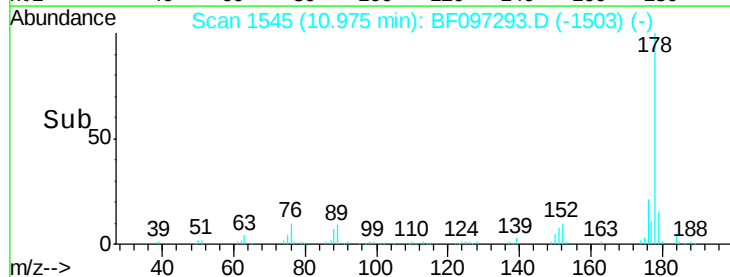
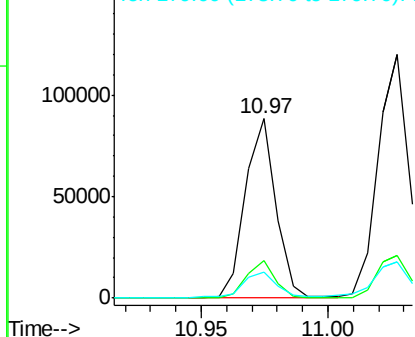


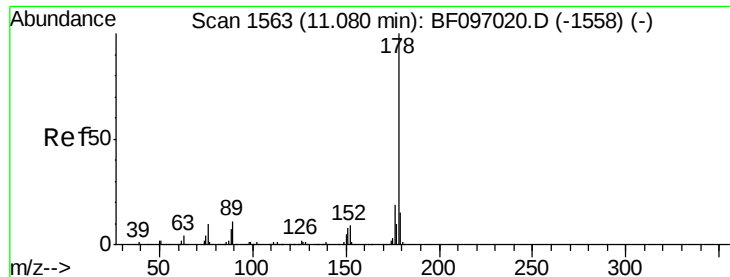
#70
 Phenanthrene
 Concen: 5.07 ng
 RT: 10.97 min Scan# 1545
 Delta R.T. -0.05 min
 Lab File: BF097293.D
 Acq: 3 Aug 2017 00:25

Tgt Ion:178 Resp: 74615
 Ion Ratio Lower Upper
 178 100
 176 21.0 16.2 24.4
 179 14.6 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

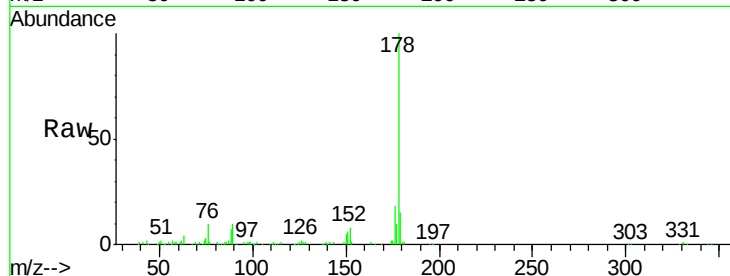




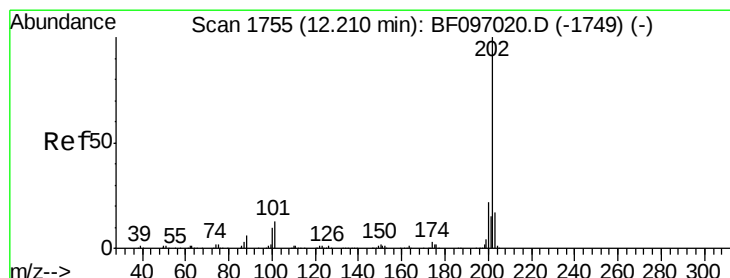
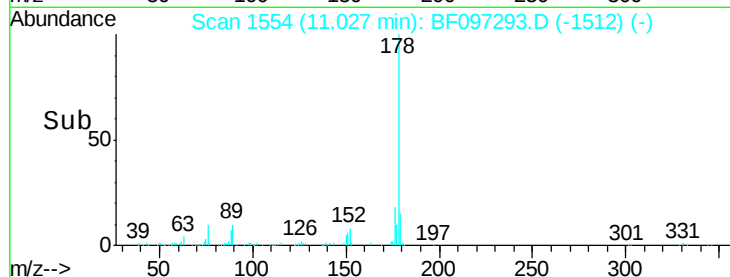
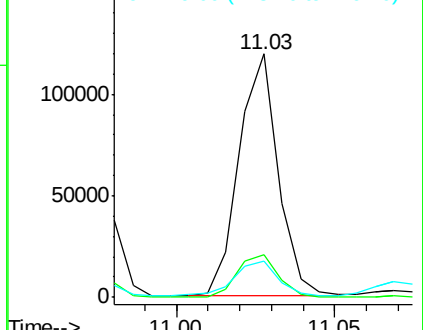
#71
 Anthracene
 Concen: 6.80 ng
 RT: 11.03 min Scan# 1554
 Delta R.T. -0.05 min
 Lab File: BF097293.D
 Acq: 3 Aug 2017 00:25

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.8	23.8
179	15.1	12.7	19.1

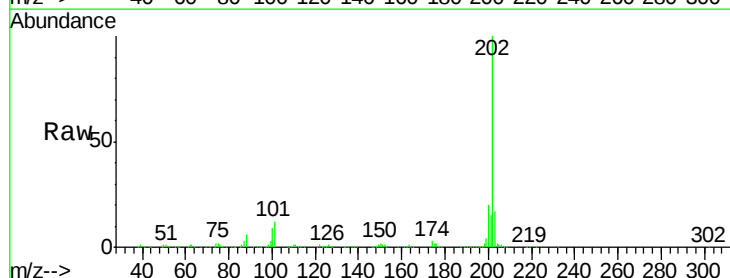


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

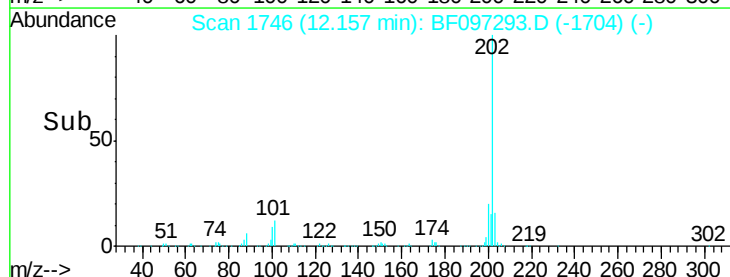
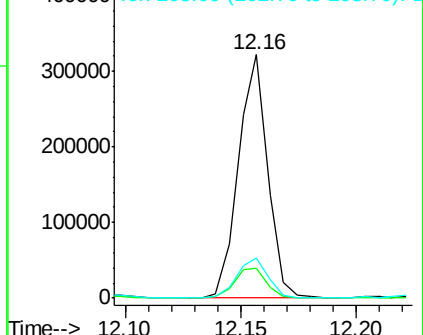


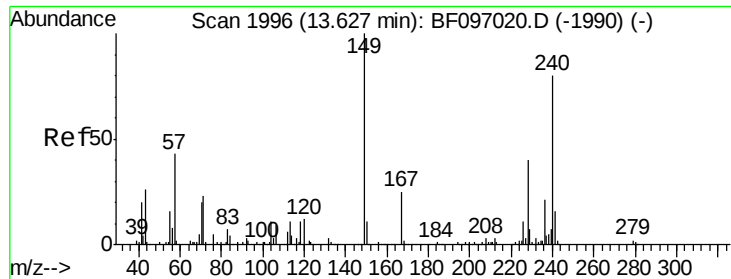
#74
 Fluoranthene
 Concen: 19.80 ng
 RT: 12.16 min Scan# 1746
 Delta R.T. -0.05 min
 Lab File: BF097293.D
 Acq: 3 Aug 2017 00:25

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	33.2
203	16.5	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: 13.57 min Scan# 1987

Delta R.T. -0.05 min

Lab File: BF097293.D

Acq: 3 Aug 2017 00:25

Instrument :

BNA_F

ClientSampleId :

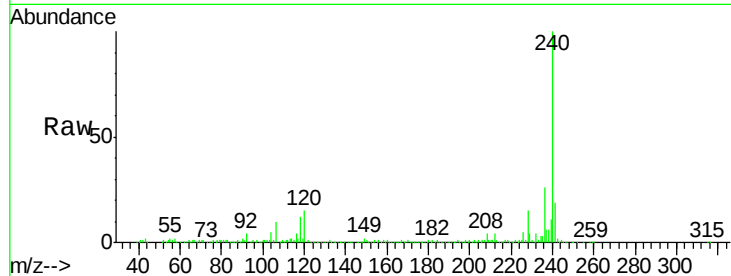
Tot Ion:240 Resp: 204191

Ion Ratio Lower Upper

240 100

120 15.0 5.8 8.8#

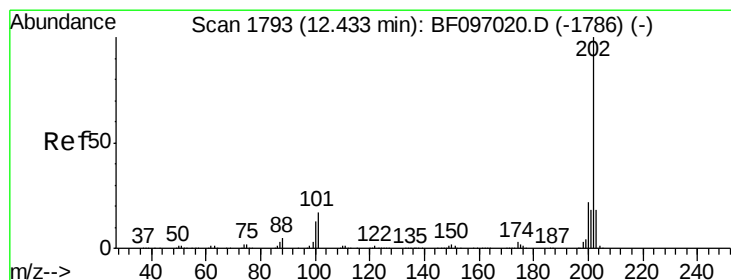
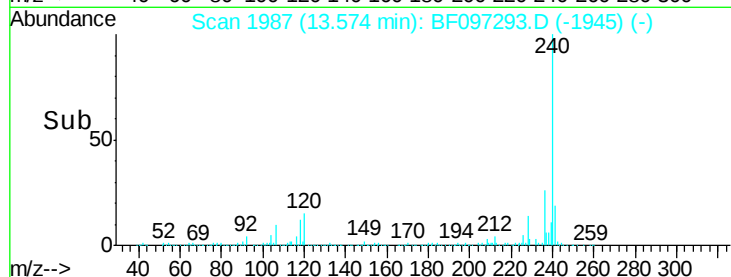
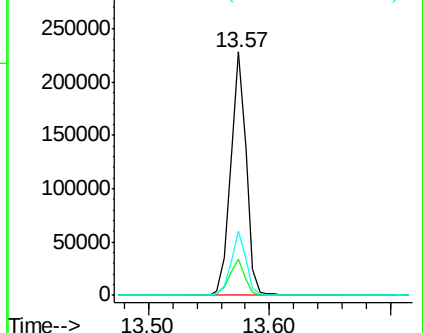
236 26.3 20.5 30.7



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: 16.36 ng

RT: 12.38 min Scan# 1784

Delta R.T. -0.05 min

Lab File: BF097293.D

Acq: 3 Aug 2017 00:25

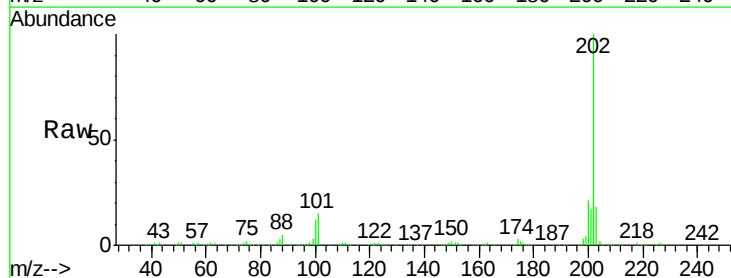
Tgt Ion:202 Resp: 273504

Ion Ratio Lower Upper

202 100

200 21.2 17.6 26.4

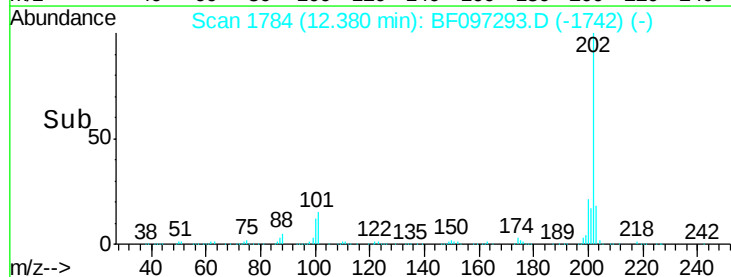
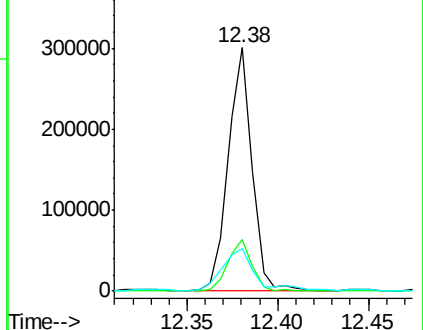
203 17.6 14.4 21.6

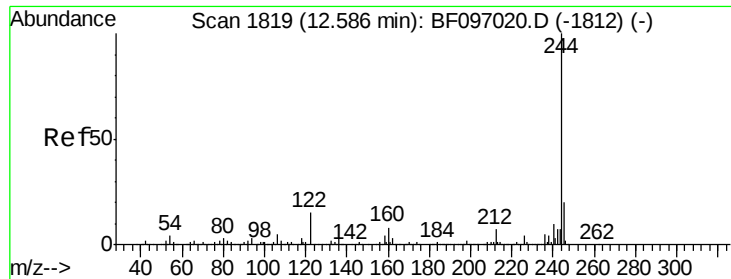


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

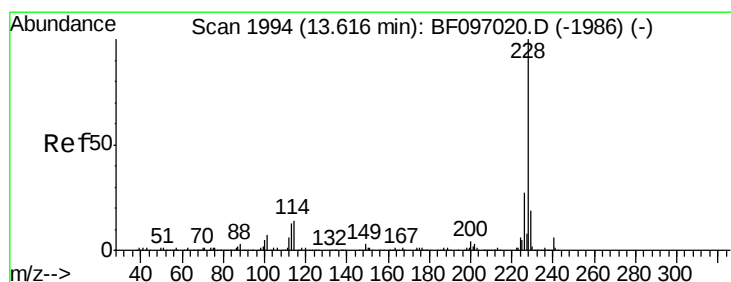
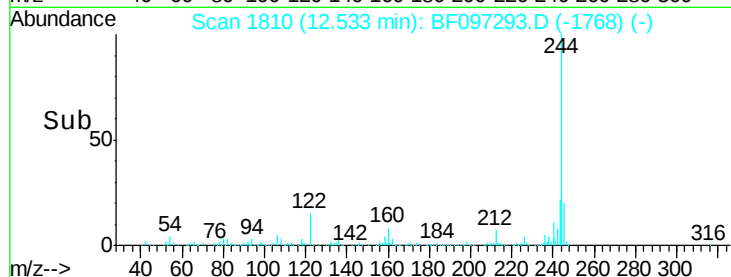
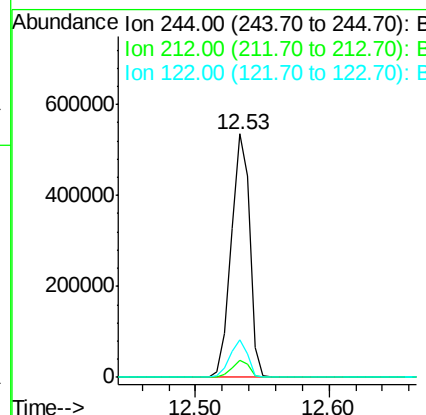
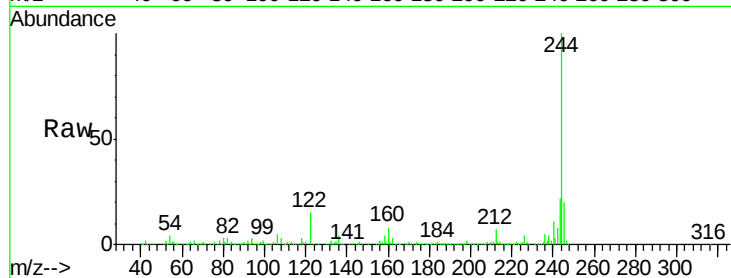




#78
 Terphenyl-d14
 Concen: 52.59 ng
 RT: 12.53 min Scan# 1810
 Delta R.T. -0.05 min
 Lab File: BF097293.D
 Acq: 3 Aug 2017 00:25

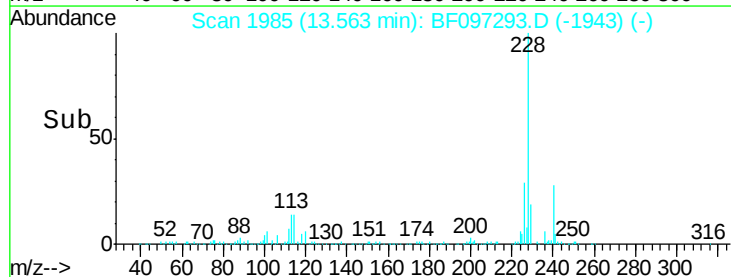
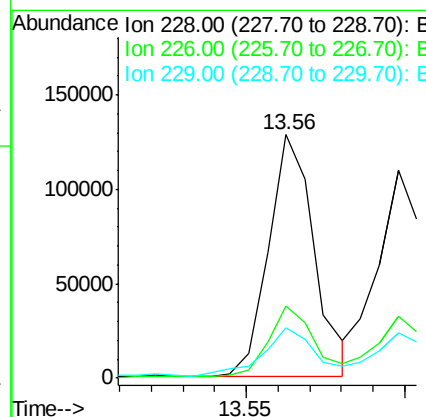
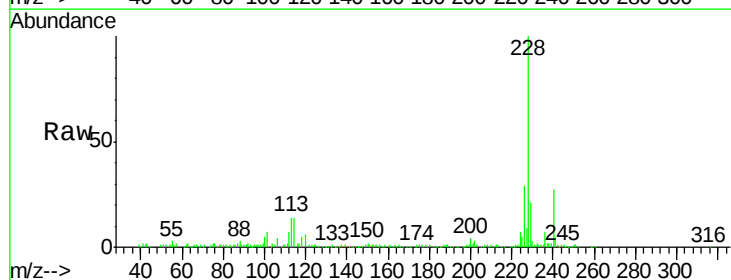
Instrument :
 BNA_F
 ClientSampleId :

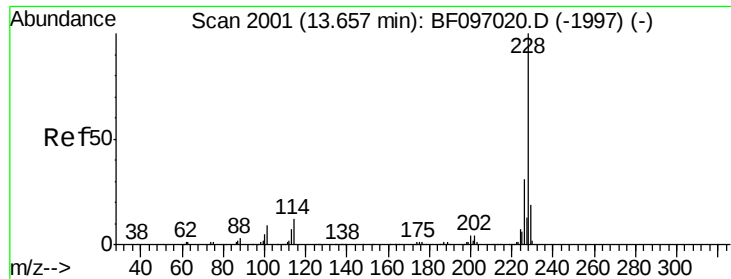
Tot Ion:244 Resp: 526733
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 15.3 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 9.78 ng
 RT: 13.56 min Scan# 1985
 Delta R.T. -0.05 min
 Lab File: BF097293.D
 Acq: 3 Aug 2017 00:25

Tgt Ion:228 Resp: 129204
 Ion Ratio Lower Upper
 228 100
 226 29.5 22.6 33.8
 229 20.6 16.3 24.5





#82

Chrysene

Concen: 8.52 ng

RT: 13.60 min Scan# 1991

Delta R.T. -0.06 min

Lab File: BF097293.D

Acq: 3 Aug 2017 00:25

Instrument :

BNA_F

ClientSampleId :

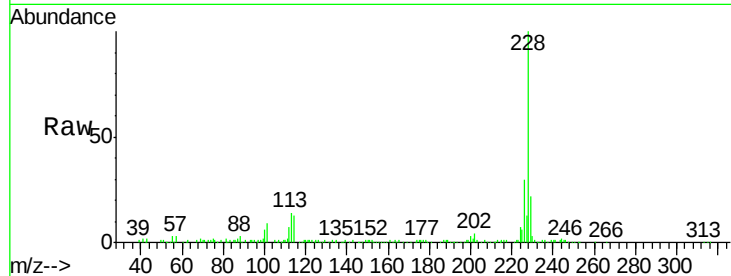
Tot Ion:228 Resp: 109937

Ion Ratio Lower Upper

228 100

226 30.1 24.9 37.3

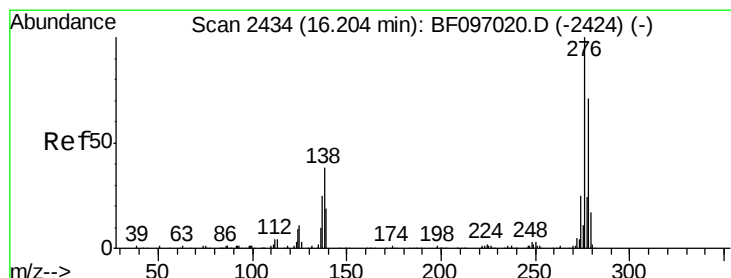
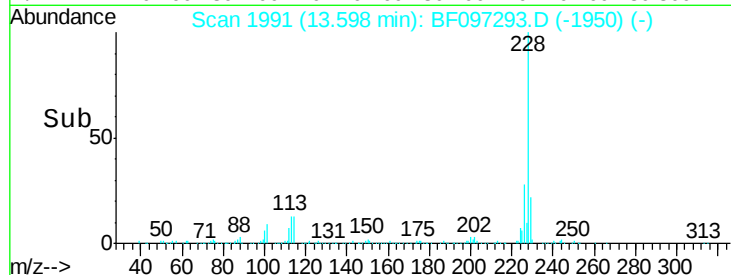
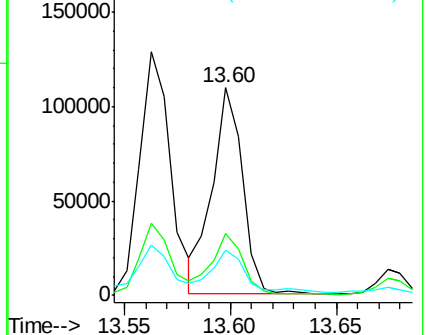
229 22.0 15.8 23.6



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: 2.61 ng

RT: 16.12 min Scan# 2420

Delta R.T. -0.08 min

Lab File: BF097293.D

Acq: 3 Aug 2017 00:25

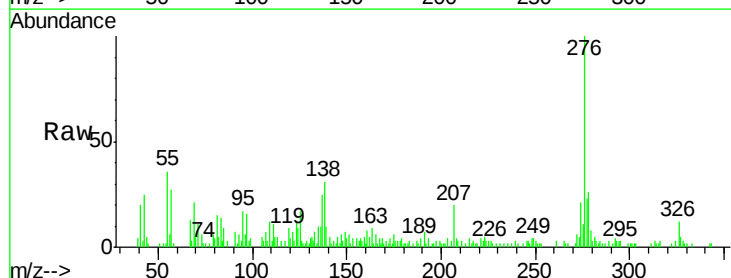
Tgt Ion:276 Resp: 28833

Ion Ratio Lower Upper

276 100

138 29.8 27.8 41.6

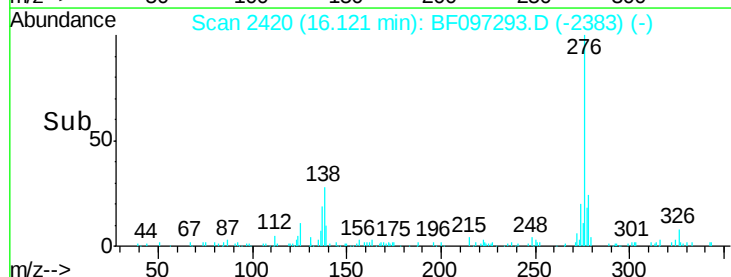
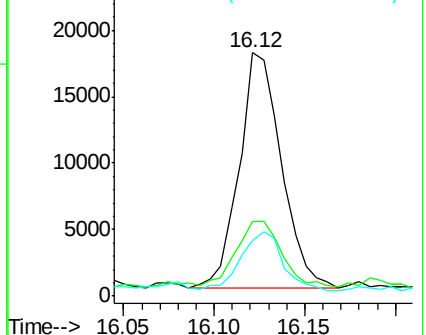
277 24.0 20.2 30.4

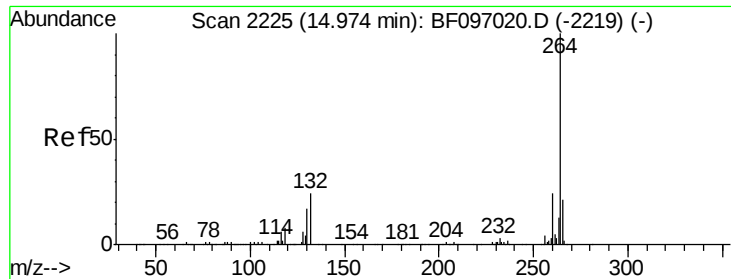


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

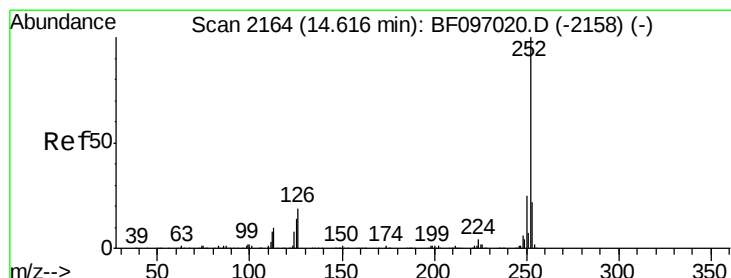
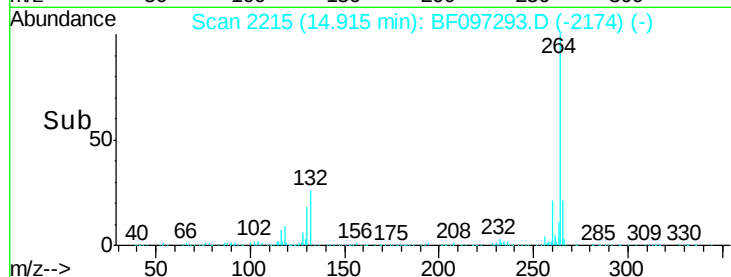
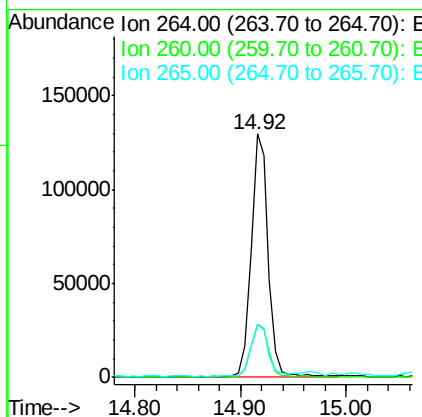
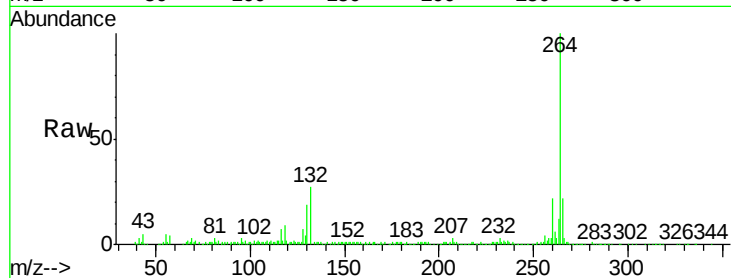




#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.92 min Scan# 2215
Delta R.T. -0.06 min
Lab File: BF097293.D
Acq: 3 Aug 2017 00:25

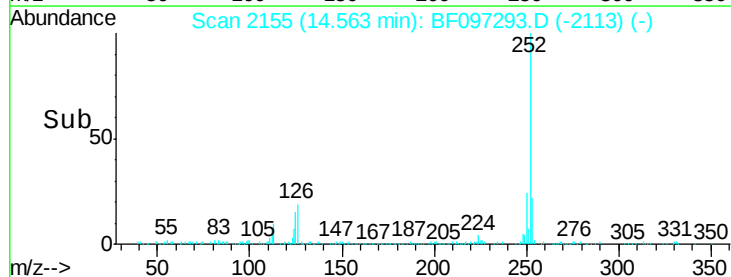
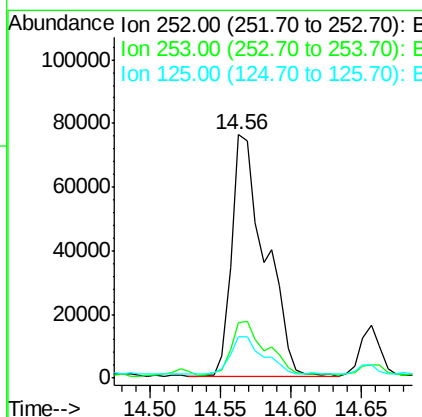
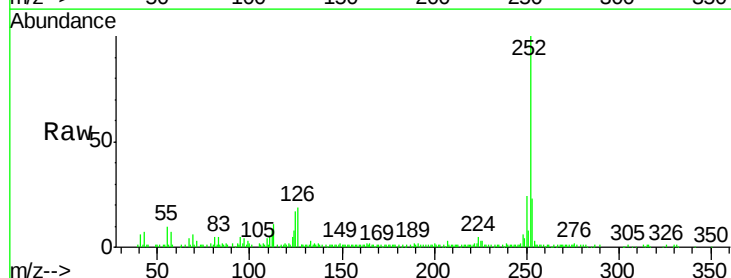
Instrument :
BNA_F
ClientSampleId :

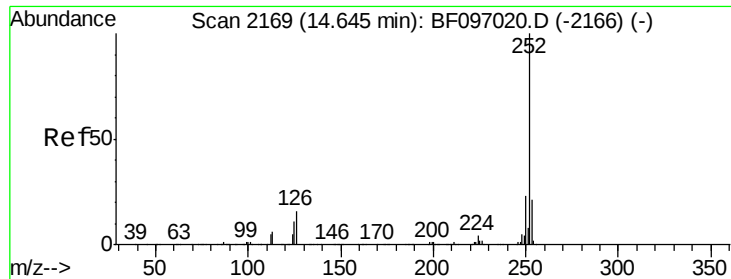
Tot Ion:264 Resp: 146825
Ion Ratio Lower Upper
264 100
260 21.6 19.5 29.3
265 21.5 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 14.28 ng
RT: 14.56 min Scan# 2155
Delta R.T. -0.05 min
Lab File: BF097293.D
Acq: 3 Aug 2017 00:25

Tgt Ion:252 Resp: 126073
Ion Ratio Lower Upper
252 100
253 22.9 18.1 27.1
125 16.8 9.8 14.8#

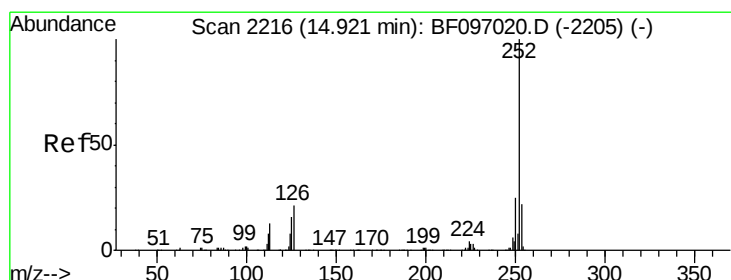
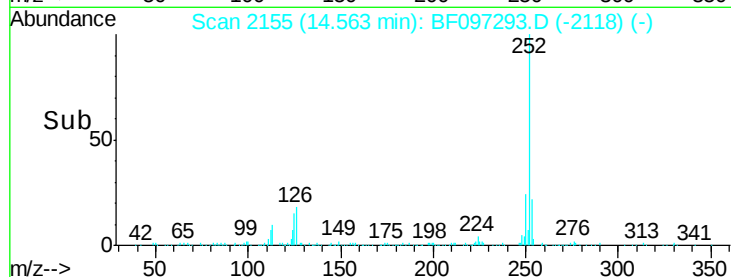
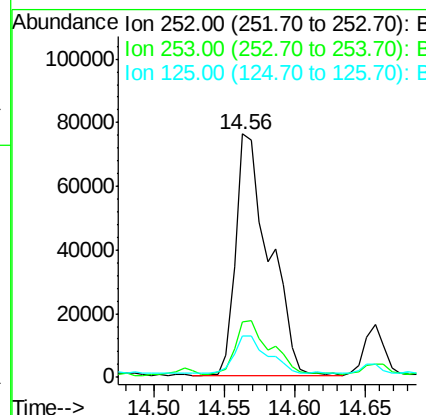
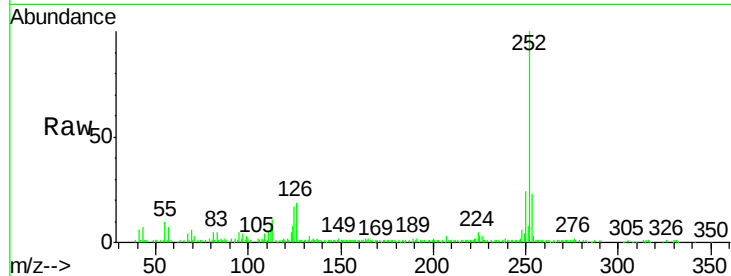




#88
Benzo(k)fluoranthene
Concen: 14.99 ng
RT: 14.56 min Scan# 2155
Delta R.T. -0.08 min
Lab File: BF097293.D
Acq: 3 Aug 2017 00:25

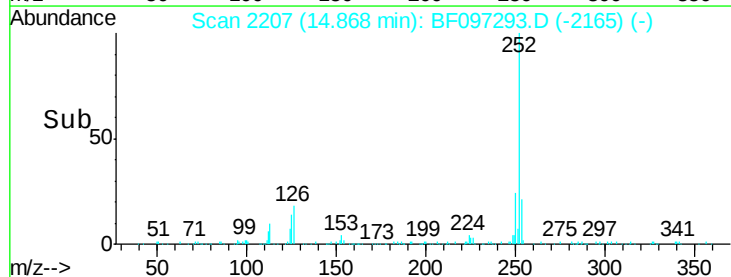
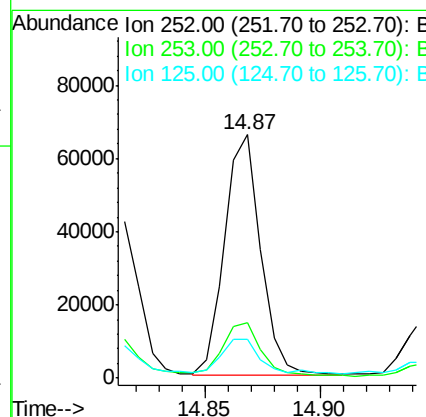
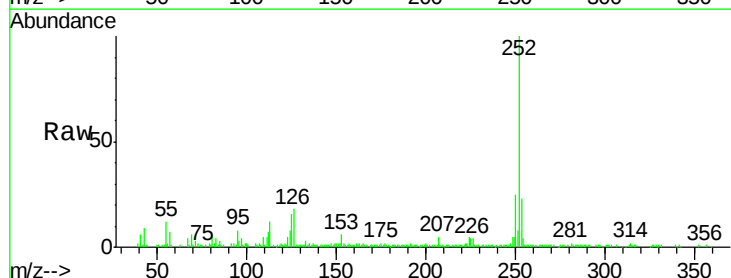
Instrument :
BNA_F
ClientSampleId :

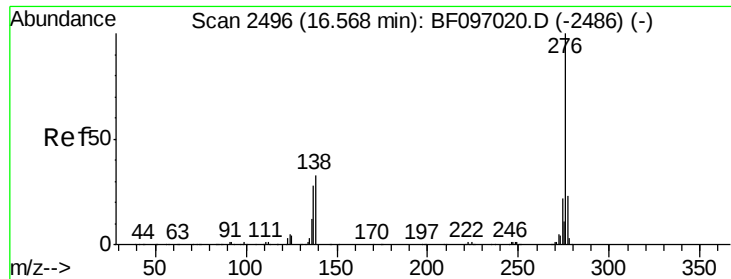
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.4	27.6
125	16.8	13.1	19.7



#89
Benzo(a)pyrene
Concen: 8.88 ng
RT: 14.87 min Scan# 2207
Delta R.T. -0.05 min
Lab File: BF097293.D
Acq: 3 Aug 2017 00:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.5	26.3
125	16.0	11.0	16.4

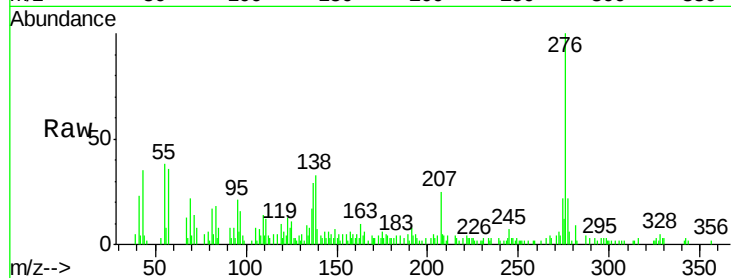




#91
 Benzo(a,h,i)perylene
 Concen: 4.44 ng
 RT: 16.49 min Scan# 2482
 Delta R.T. -0.08 min
 Lab File: BF097293.D
 Acq: 3 Aug 2017 00:25

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.4	18.6	28.0
138	32.5	25.4	38.0



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

