

Data Path : Z:\HPCHEM1\BNA F\DATA\BF053017\
 Data File : BF095541.D
 Acq On : 30 May 2017 18:16
 Operator : SJ/MA
 Sample : I3281-20
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 31 01:41:26 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 26 16:50:16 2017
 Response via : Initial Calibration

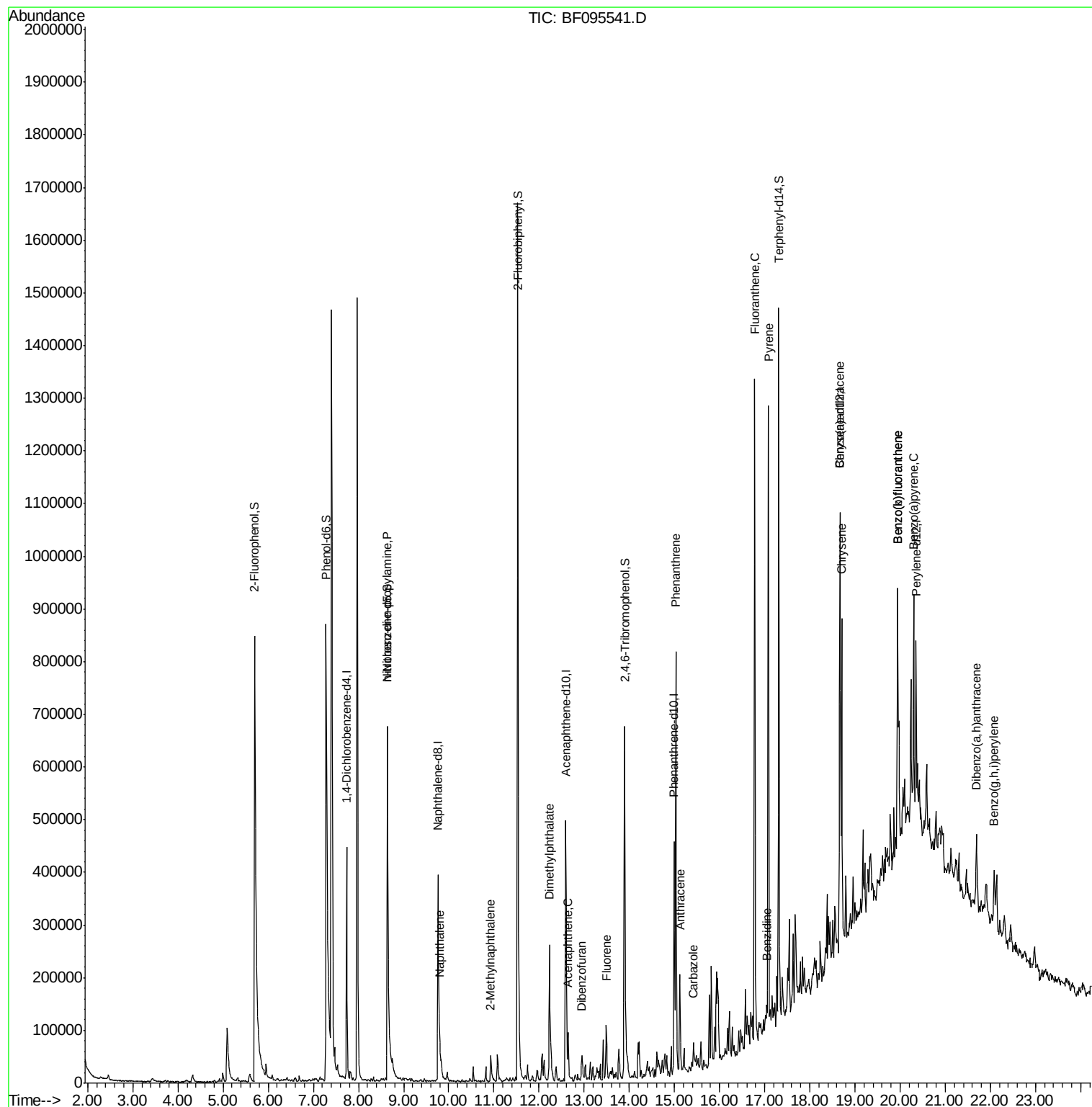
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	97327	20.00	ng	0.00
21) Naphthalene-d8	9.76	136	383080	20.00	ng	0.00
38) Acenaphthene-d10	12.59	164	155609	20.00	ng	0.00
63) Phenanthrene-d10	14.99	188	228932	20.00	ng	0.00
75) Chrysene-d12	18.67	240	209715	20.00	ng	0.00
86) Perylene-d12	20.35	264	157531	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.70	112	723600	123.95	ng	0.00
7) Phenol-d6	7.28	99	872705	124.59	ng	-0.01
23) Nitrobenzene-d5	8.64	82	499443	82.21	ng	-0.01
41) 2,4,6-Tribromophenol	13.89	330	133069	104.42	ng	0.00
44) 2-Fluorobiphenyl	11.53	172	895177	82.80	ng	0.00
78) Terphenyl-d14	17.31	244	522461	54.87	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.64	70	59099	12.48	ng	# 74
31) Naphthalene	9.80	128	42191	2.19	ng	100
37) 2-Methylnaphthalene	10.94	142	29732	2.35	ng	95
49) Dimethylphthalate	12.23	163	198361	15.53	ng	99
51) Acenaphthene	12.64	154	29566	2.99	ng	99
54) Dibenzofuran	12.95	168	30400	2.22	ng	95
57) Fluorene	13.49	166	32723	2.75	ng	95
70) Phenanthrene	15.03	178	466538	35.47	ng	97
71) Anthracene	15.12	178	118579	8.83	ng	96
72) Carbazole	15.42	167	34598	2.83	ng	97
74) Fluoranthene	16.78	202	647990	48.02	ng	98
76) Benzidine	17.04	184	133	6.61	ng	# 1
77) Pyrene	17.08	202	570879	36.40	ng	99
80) Benzo(a)anthracene	18.66	228	284920	23.34	ng	96
82) Chrysene	18.71	228	264437	22.41	ng	98
87) Benzo(b)fluoranthene	19.95	252	371429	38.16	ng	# 97
88) Benzo(k)fluoranthene	19.95	252	371429	39.56	ng	99
89) Benzo(a)pyrene	20.30	252	195469	21.76	ng	95
90) Dibenzo(a,h)anthracene	21.69	278	22903	3.09	ng	# 79
91) Benzo(a,h,i)perylene	22.08	276	91282	12.54	ng	95

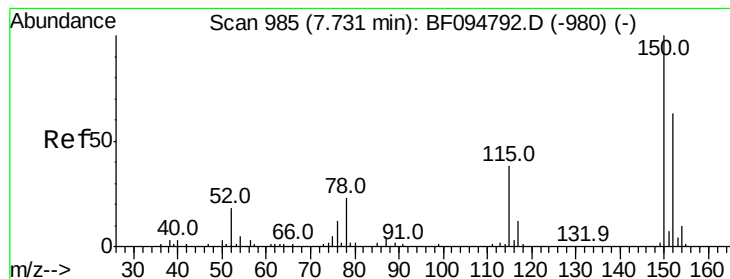
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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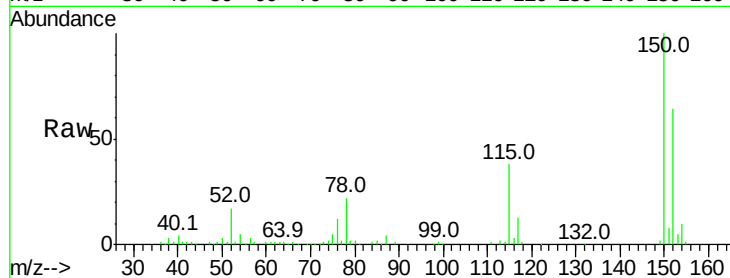


#1

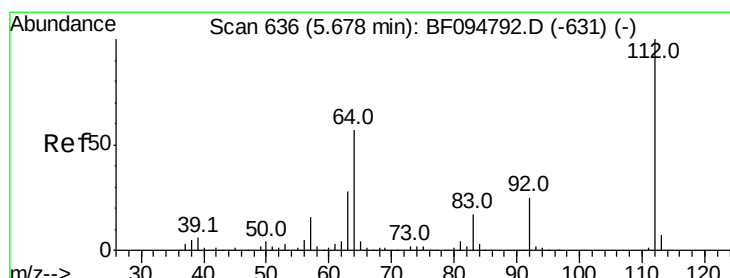
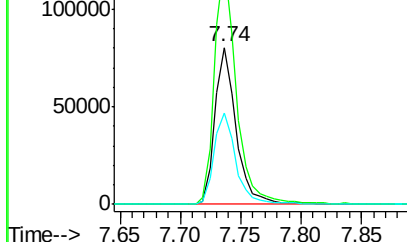
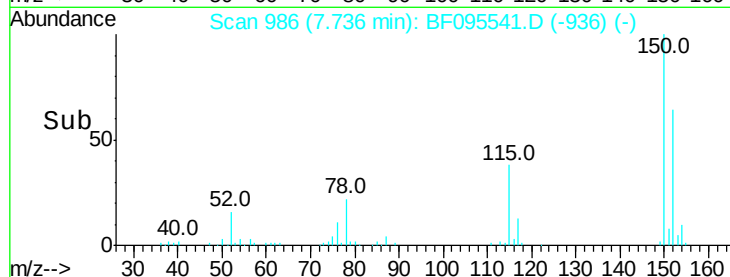
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 986
Delta R.T. -0.01 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 97327
Ion Ratio Lower Upper
152 100
150 155.2 126.2 189.2
115 58.2 52.2 78.2



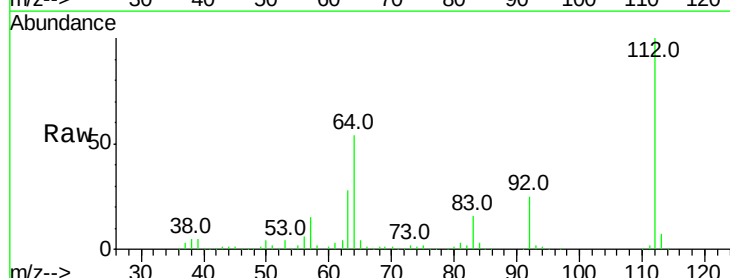
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



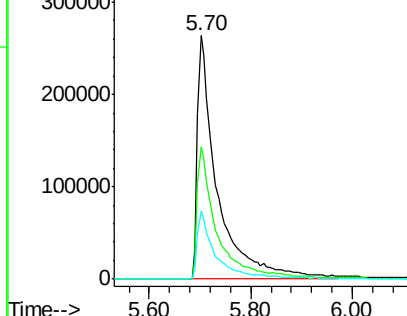
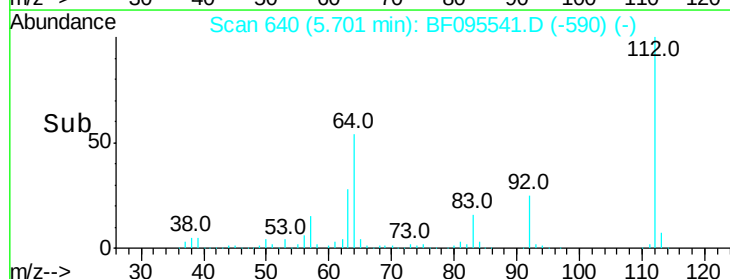
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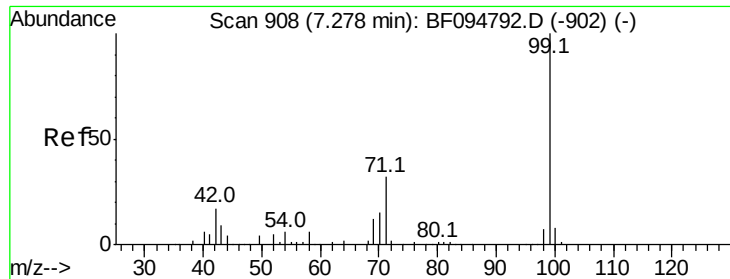
2-Fluorophenol
Concen: 123.95 ng
RT: 5.70 min Scan# 640
Delta R.T. -0.01 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

Tgt Ion:112 Resp: 723600
Ion Ratio Lower Upper
112 100
64 54.2 46.0 69.0
63 28.1 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: 124.59 ng

RT: 7.28 min Scan# 909

Delta R.T. -0.01 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

Instrument :

BNA_F

ClientSampleId :

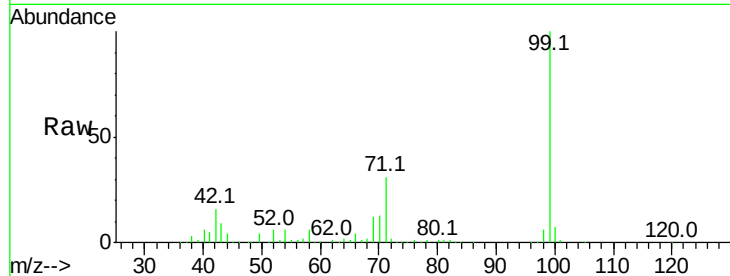
Tot Ion: 99 Resp: 872705

Ion Ratio Lower Upper

99 100

42 16.0 13.5 20.3

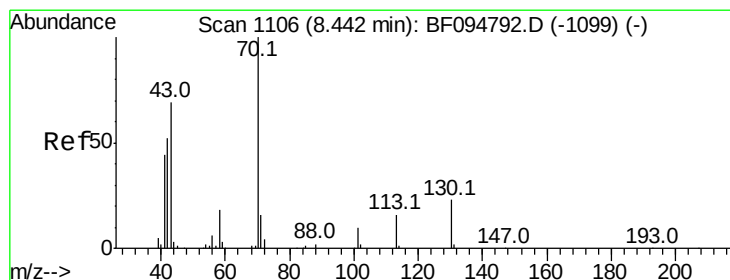
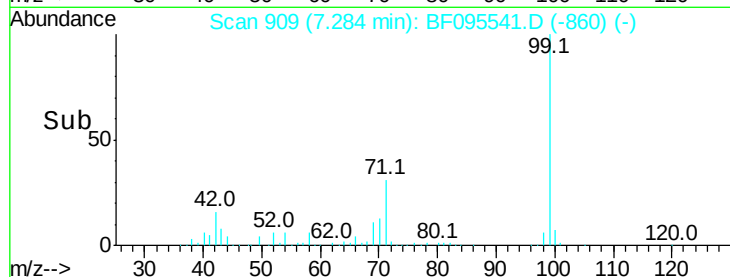
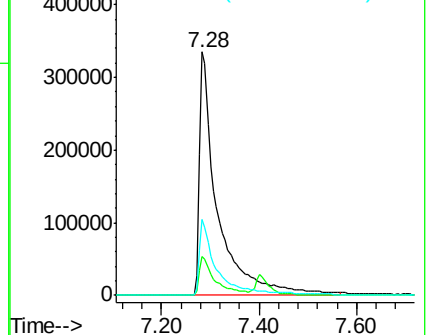
71 31.3 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 12.48 ng

RT: 8.64 min Scan# 1140

Delta R.T. 0.18 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

Tgt Ion: 70 Resp: 59099

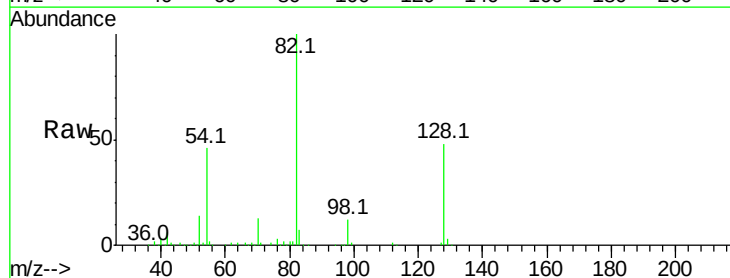
Ion Ratio Lower Upper

70 100

42 42.0 47.2 70.8#

101 0.0 7.2 10.8#

130 2.3 15.9 23.9#

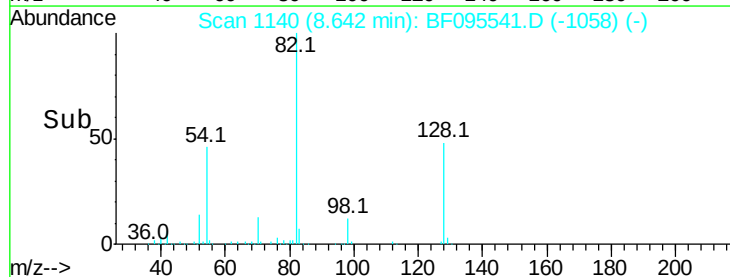
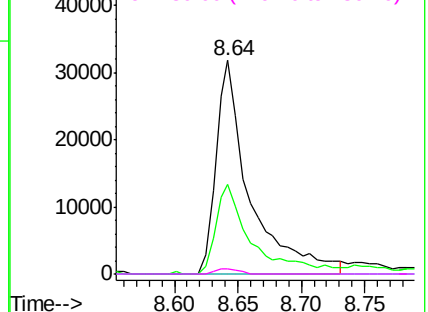


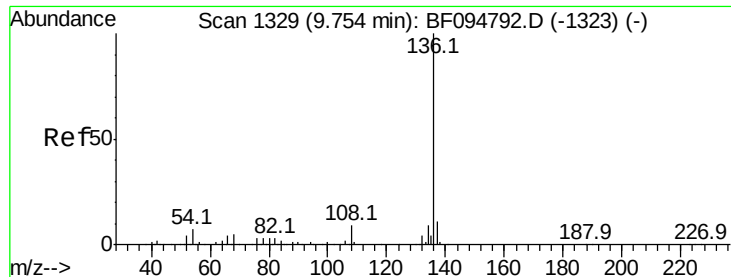
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

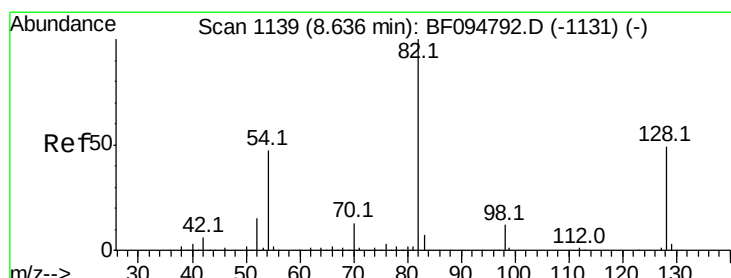
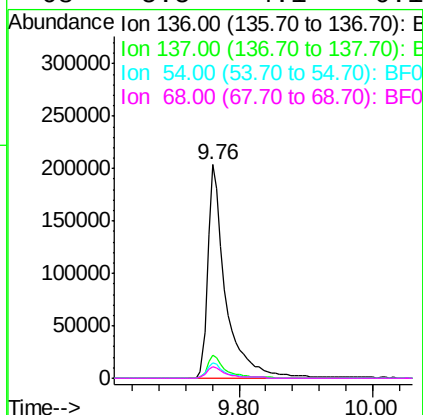
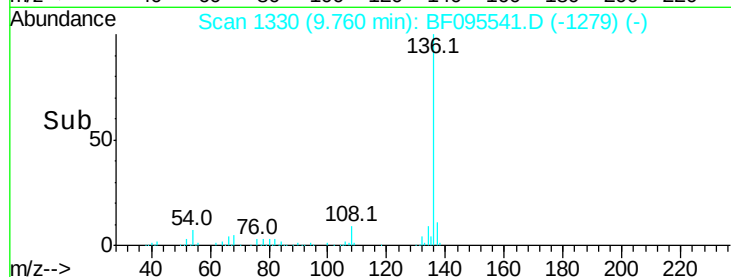
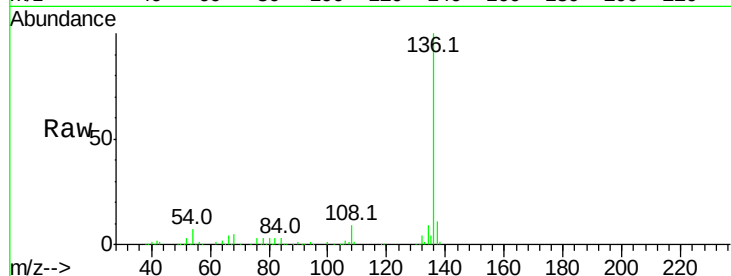




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.76 min Scan# 1330
Delta R.T. -0.00 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

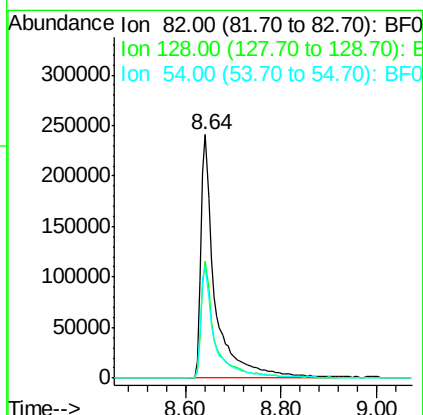
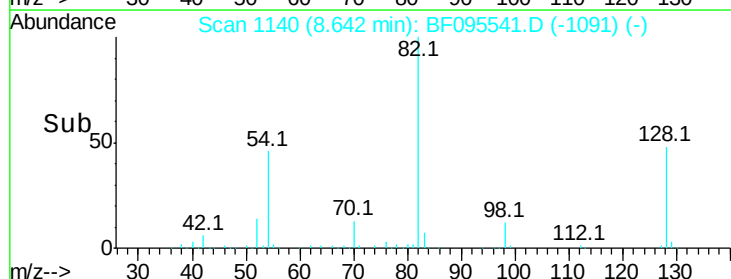
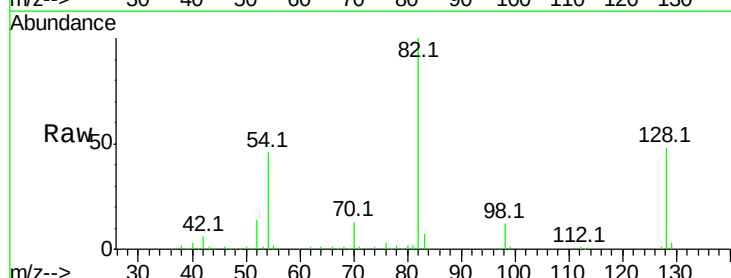
Instrument :
BNA_F
ClientSampleId :

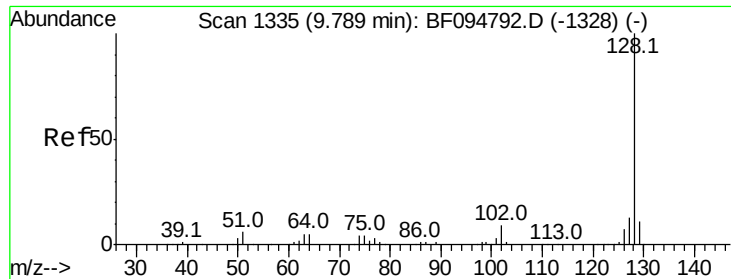
Tot Ion:136	Resp:	383080
Ion Ratio	Lower	Upper
136	100	
137	10.9	8.5 12.7
54	7.0	4.9 7.3
68	5.5	4.1 6.1



#23
Nitrobenzene-d5
Concen: 82.21 ng
RT: 8.64 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

Tgt Ion: 82	Resp:	499443
Ion Ratio	Lower	Upper
82	100	
128	47.8	34.0 51.0
54	46.1	42.2 63.2

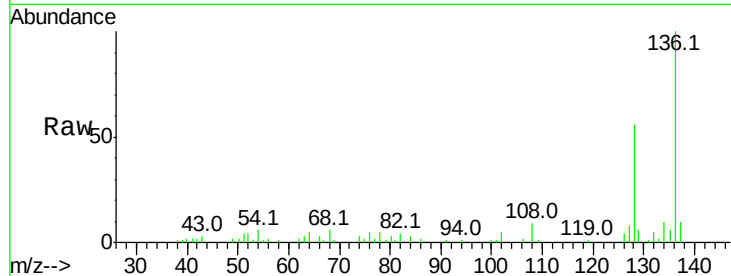




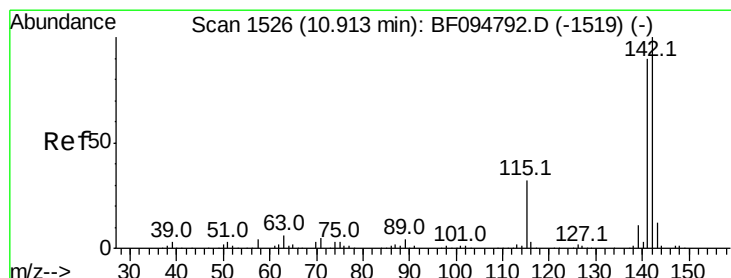
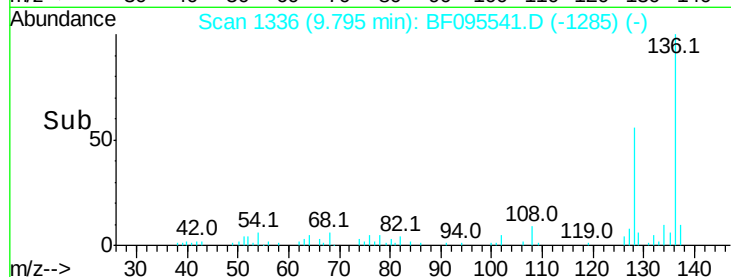
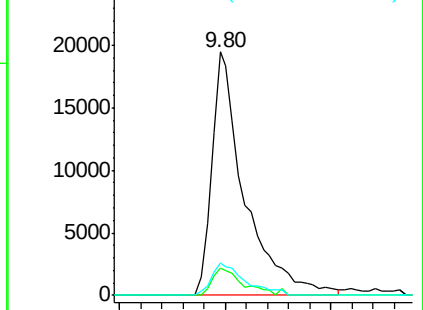
#31
Naphthalene
Concen: 2.19 ng
RT: 9.80 min Scan# 1336
Delta R.T. -0.00 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

Instrument :
BNA_F
ClientSampled :

Tot Ion:128 Resp: 42191
Ion Ratio Lower Upper
128 100
129 11.0 9.0 13.6
127 13.4 10.8 16.2

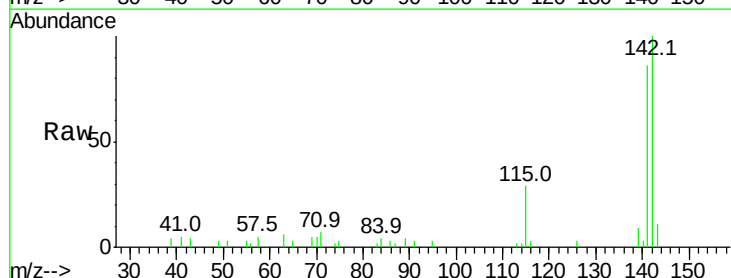


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

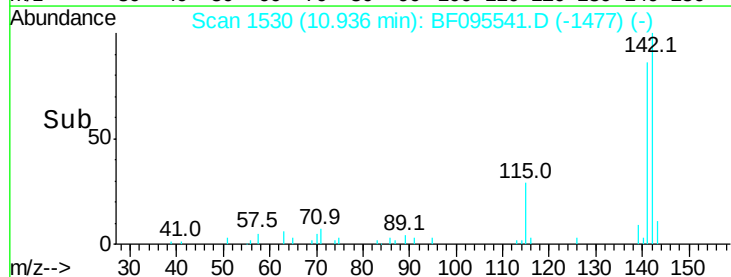
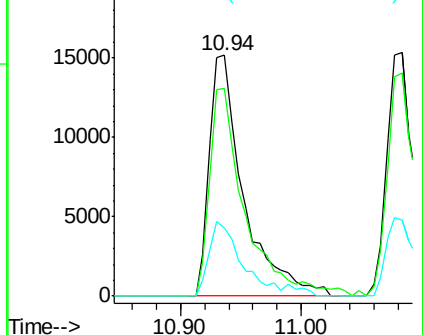


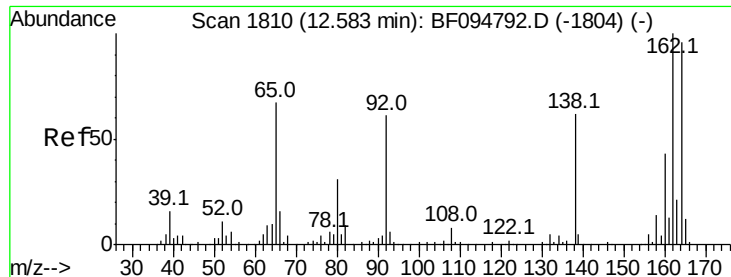
#37
2-Methylnaphthalene
Concen: 2.35 ng
RT: 10.94 min Scan# 1530
Delta R.T. 0.01 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

Tgt Ion:142 Resp: 29732
Ion Ratio Lower Upper
142 100
141 86.5 71.3 106.9
115 28.6 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.59 min Scan# 1811

Delta R.T. -0.01 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

Instrument :

BNA_F

ClientSampleId :

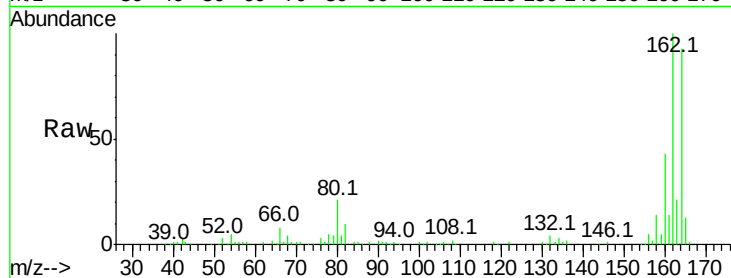
Tot Ion:164 Resp: 155609

Ion Ratio Lower Upper

164 100

162 107.7 82.6 123.8

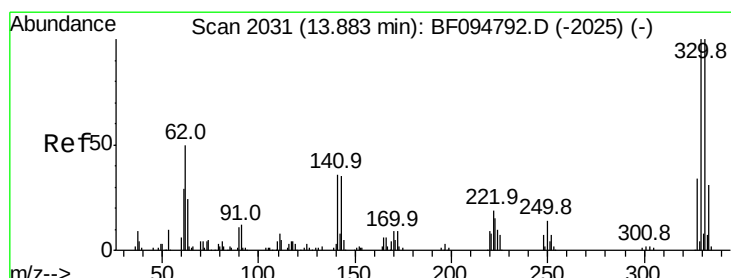
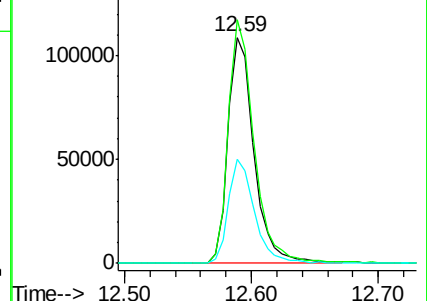
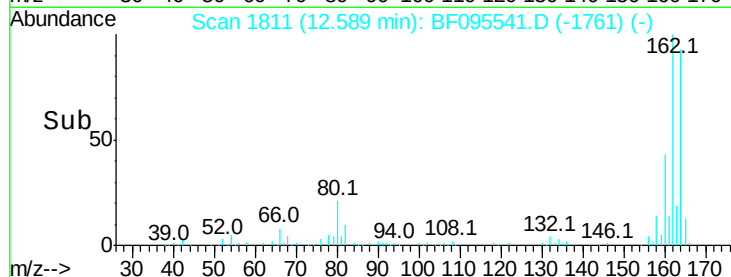
160 46.0 36.2 54.2



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: 104.42 ng

RT: 13.89 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

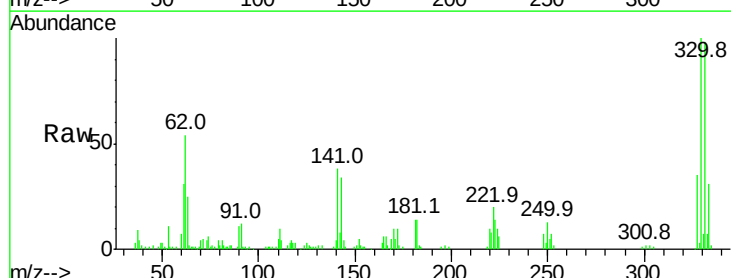
Tgt Ion:330 Resp: 133069

Ion Ratio Lower Upper

330 100

332 97.5 76.6 115.0

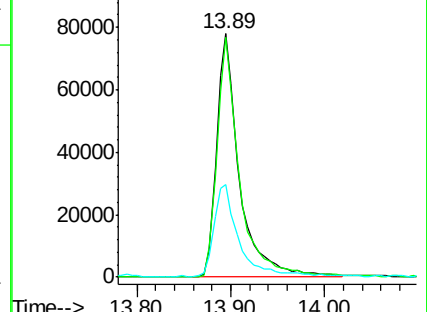
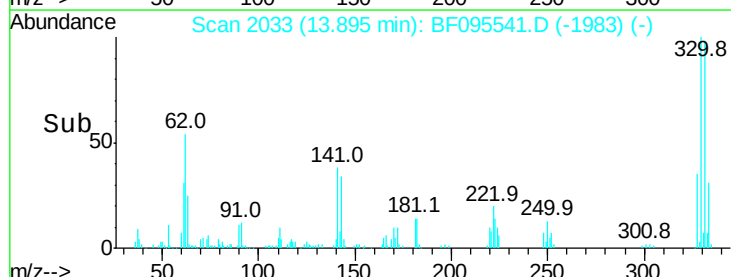
141 42.6 31.4 47.2

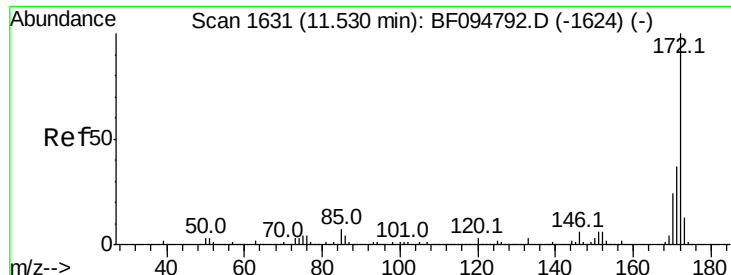


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

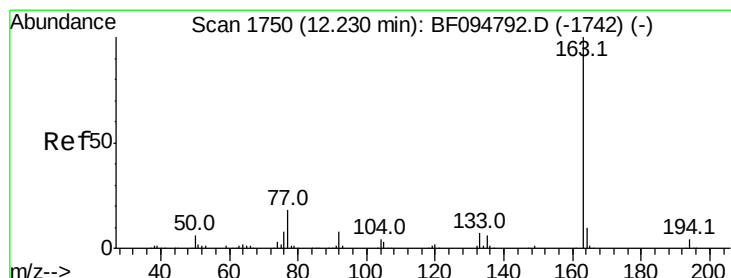
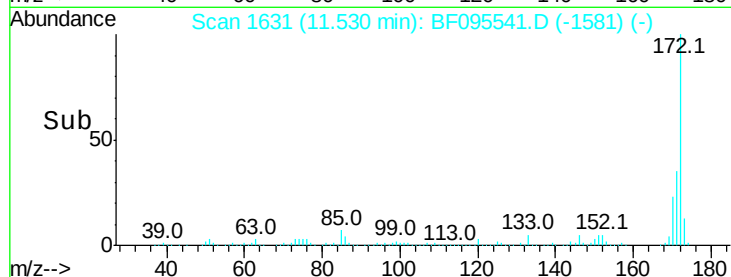
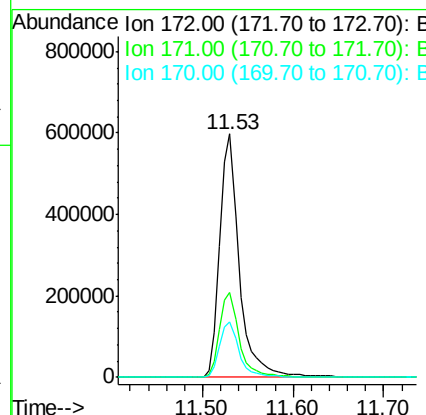
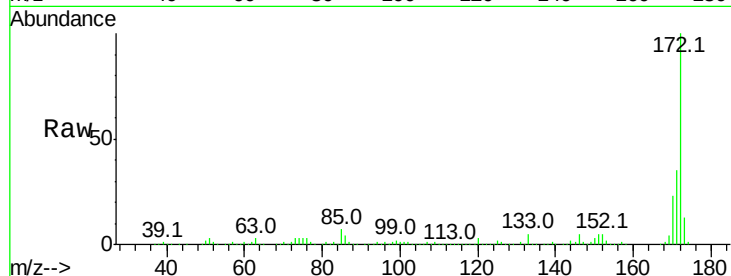




#44
2-Fluorobiphenyl
Concen: 82.80 ng
RT: 11.53 min Scan# 1631
Delta R.T. -0.01 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

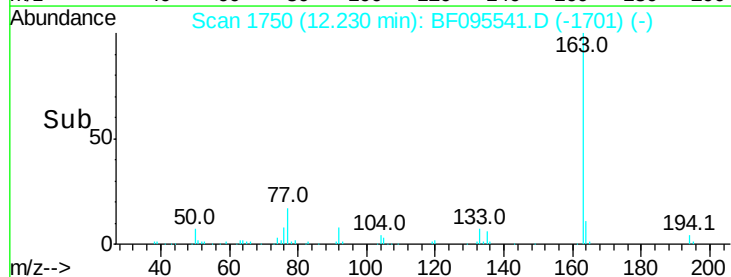
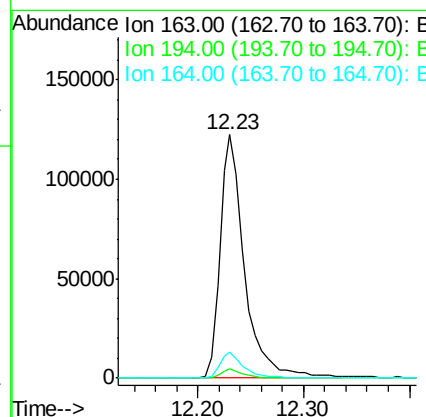
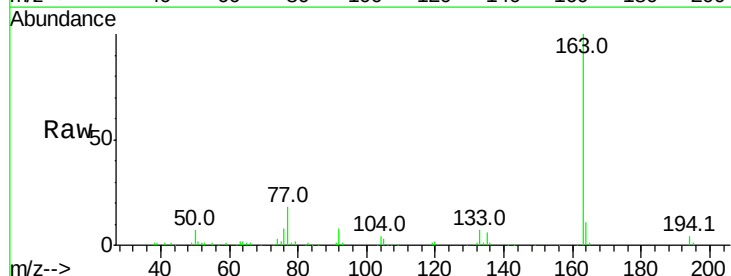
Instrument :
BNA_F
ClientSampleId :

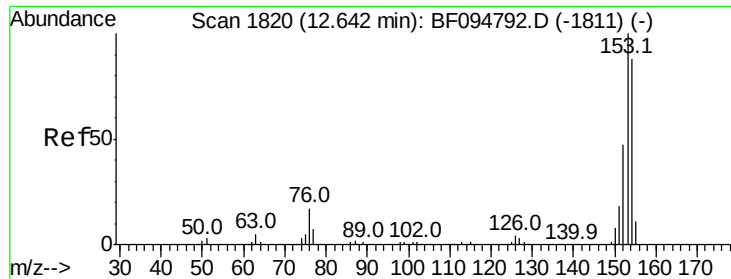
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.6	44.4
170	22.8	19.8	29.8



#49
Dimethylphthalate
Concen: 15.53 ng
RT: 12.23 min Scan# 1750
Delta R.T. -0.01 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	2.6	4.0
164	10.7	8.4	12.6

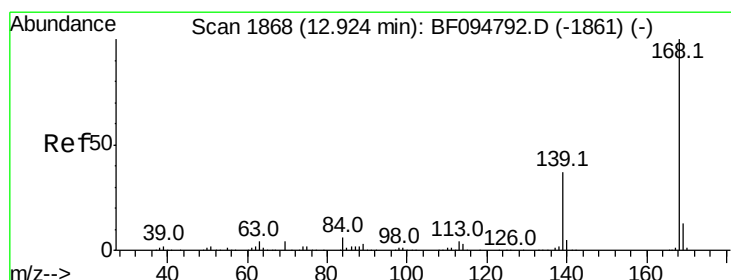
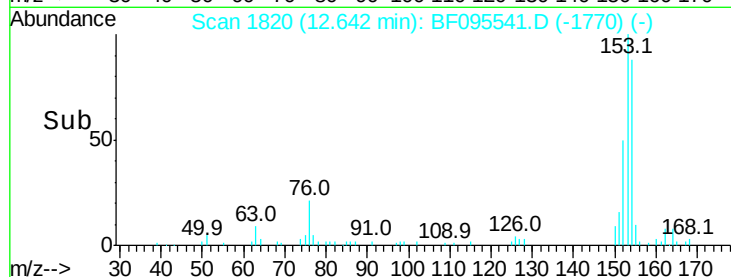
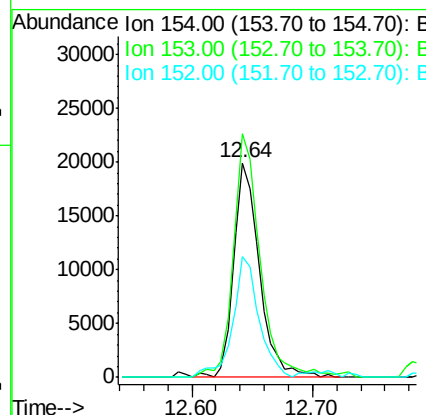
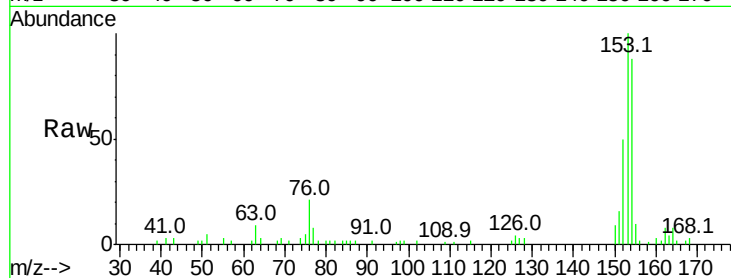




#51
Acenaphthene
Concen: 2.99 ng
RT: 12.64 min Scan# 1820
Delta R.T. -0.01 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

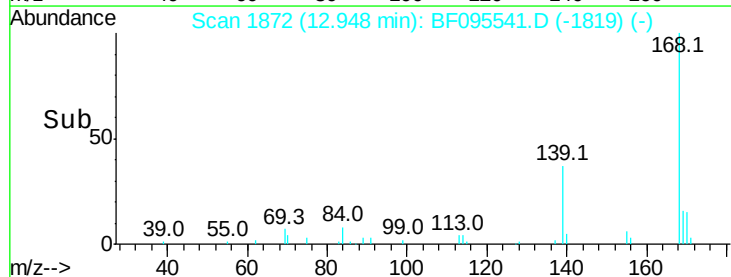
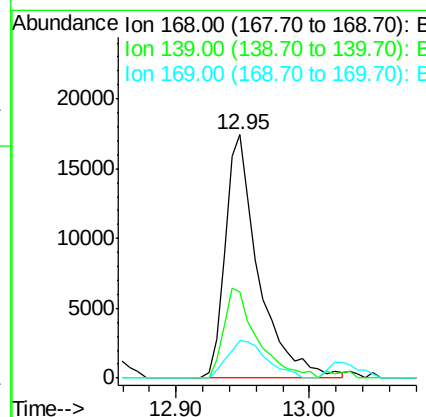
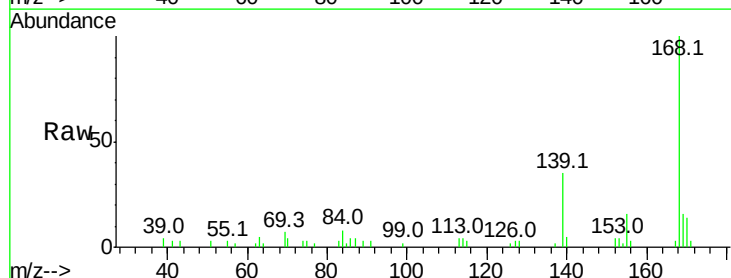
Instrument :
BNA_F
ClientSampleId :

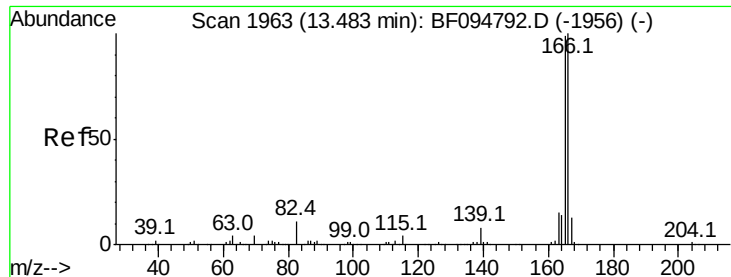
Tot Ion:154 Resp: 29566
Ion Ratio Lower Upper
154 100
153 113.6 90.5 135.7
152 56.4 43.6 65.4



#54
Dibenzofuran
Concen: 2.22 ng
RT: 12.95 min Scan# 1872
Delta R.T. 0.01 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

Tgt Ion:168 Resp: 30400
Ion Ratio Lower Upper
168 100
139 35.2 30.6 45.8
169 15.6 10.8 16.2

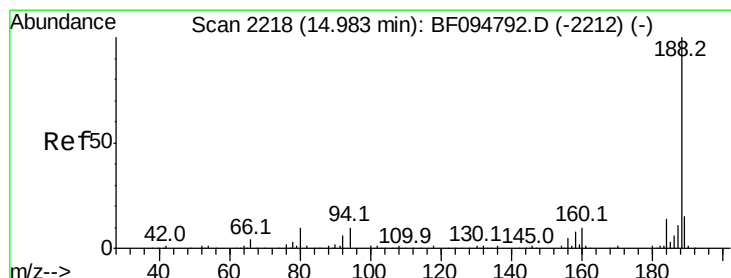
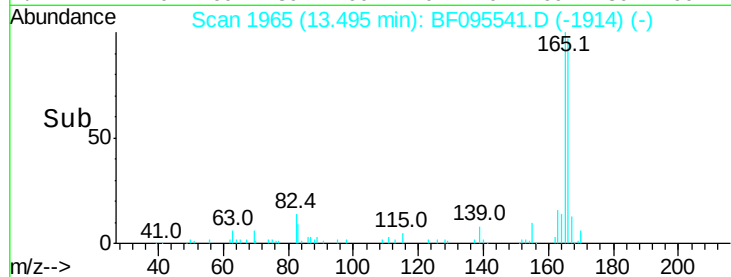
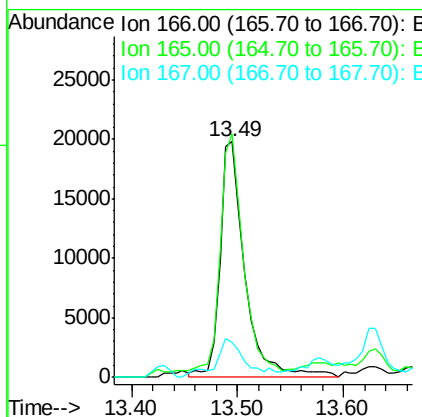
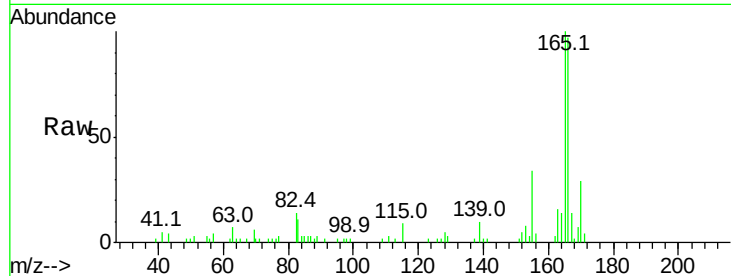




#57
 Fluorene
 Concen: 2.75 ng
 RT: 13.49 min Scan# 1965
 Delta R.T. -0.00 min
 Lab File: BF095541.D
 Acq: 30 May 2017 18:16

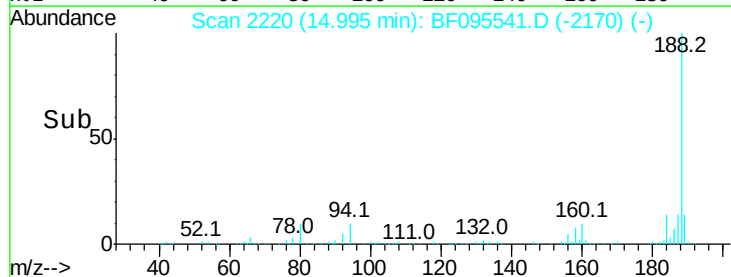
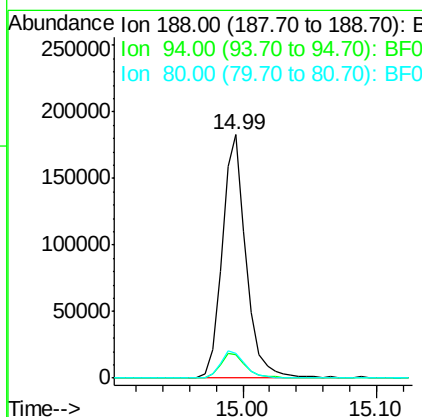
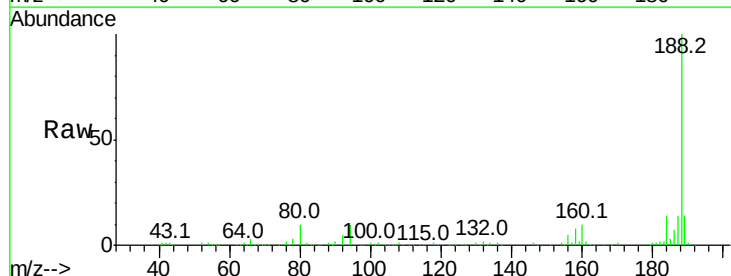
Instrument :
 BNA_F
 ClientSampleId :

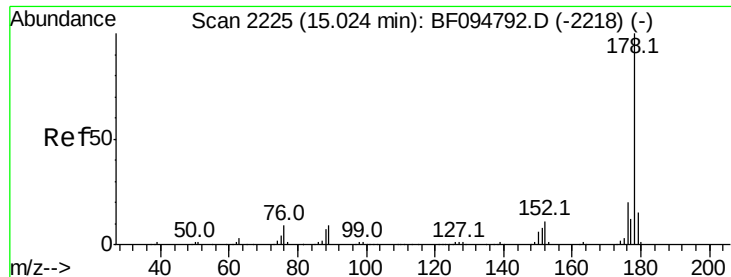
Tot Ion:166 Resp: 32723
 Ion Ratio Lower Upper
 166 100
 165 103.4 78.8 118.2
 167 14.8 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.99 min Scan# 2220
 Delta R.T. -0.01 min
 Lab File: BF095541.D
 Acq: 30 May 2017 18:16

Tgt Ion:188 Resp: 228932
 Ion Ratio Lower Upper
 188 100
 94 9.9 9.4 14.2
 80 10.3 10.2 15.2

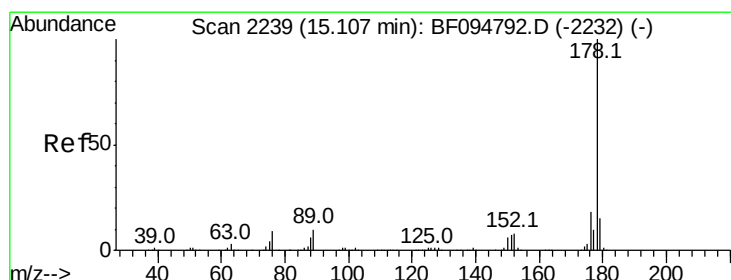
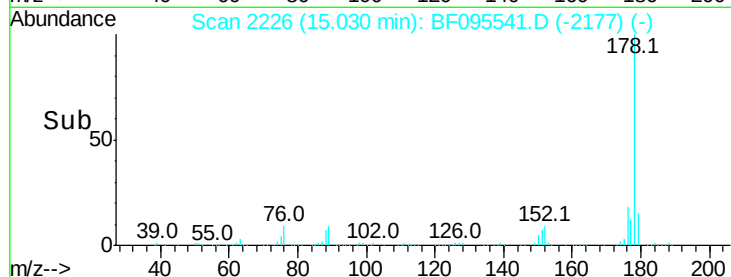
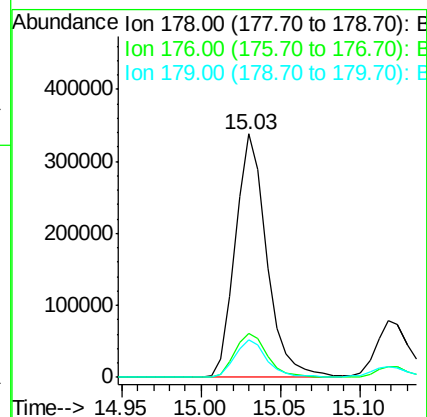
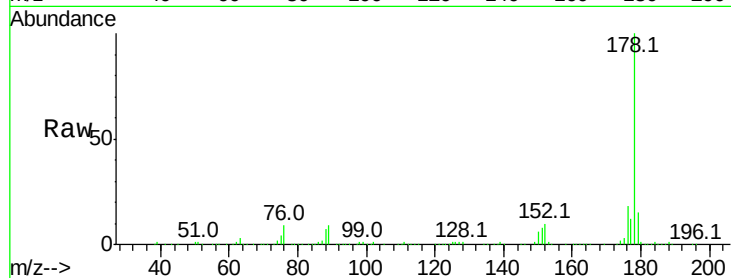




#70
Phenanthrene
Concen: 35.47 ng
RT: 15.03 min Scan# 2226
Delta R.T. -0.01 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

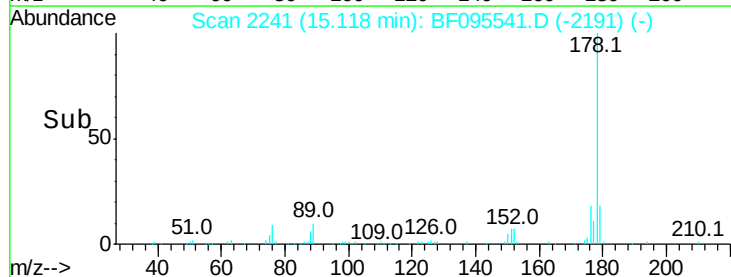
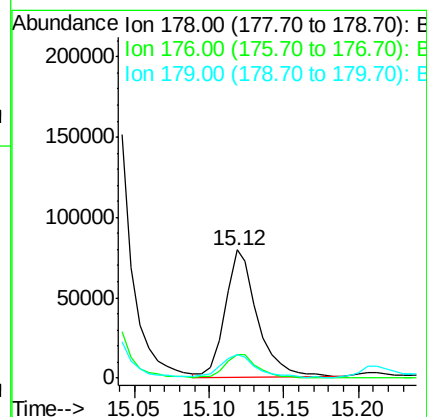
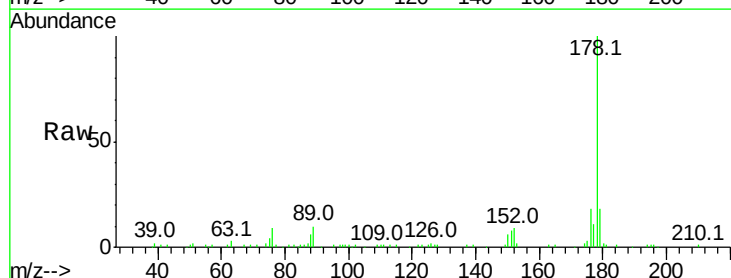
Instrument :
BNA_F
ClientSampleId :

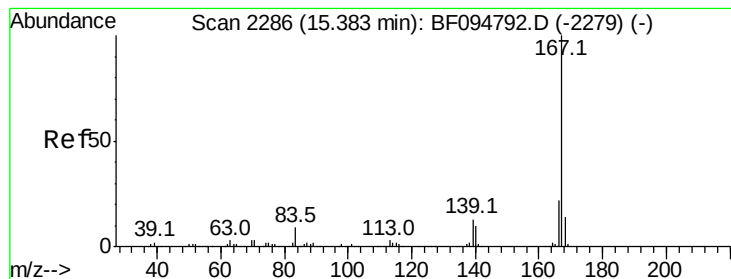
Tot Ion:178 Resp: 466538
Ion Ratio Lower Upper
178 100
176 18.3 16.2 24.4
179 15.2 12.6 19.0



#71
Anthracene
Concen: 8.83 ng
RT: 15.12 min Scan# 2241
Delta R.T. -0.01 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

Tgt Ion:178 Resp: 118579
Ion Ratio Lower Upper
178 100
176 18.2 15.8 23.8
179 17.9 12.7 19.1





#72

Carbazole

Concen: 2.83 ng

RT: 15.42 min Scan# 2292

Delta R.T. 0.01 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

Instrument :

BNA_F

ClientSampleId :

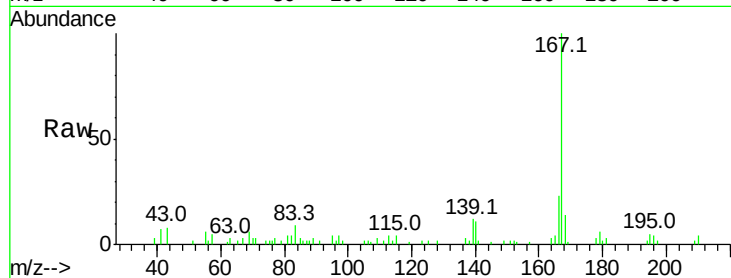
Tot Ion:167 Resp: 34598

Ion Ratio Lower Upper

167 100

166 23.3 18.1 27.1

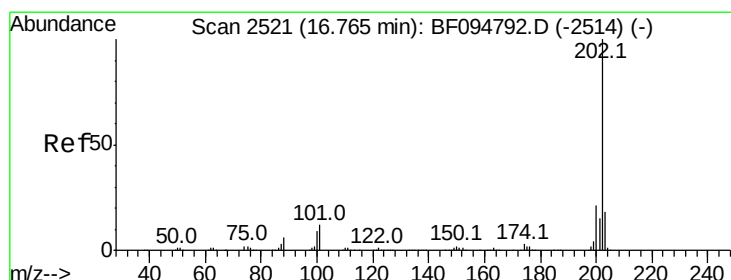
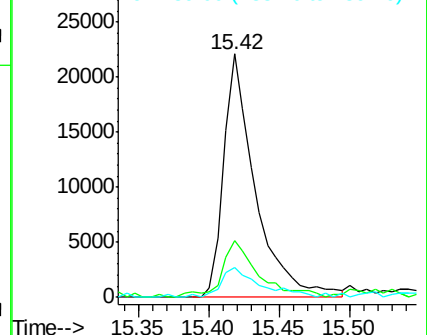
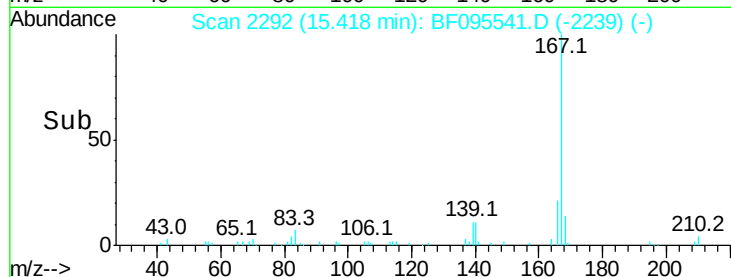
139 12.3 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 48.02 ng

RT: 16.78 min Scan# 2523

Delta R.T. -0.01 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

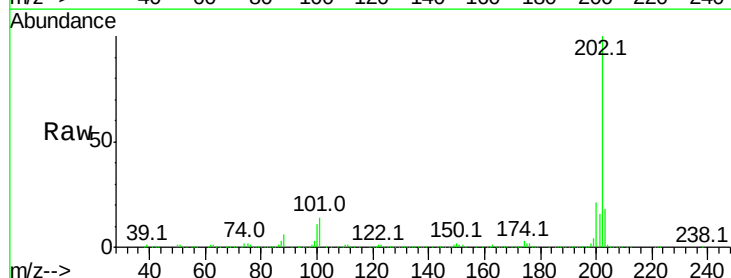
Tgt Ion:202 Resp: 647990

Ion Ratio Lower Upper

202 100

101 14.4 0.0 33.2

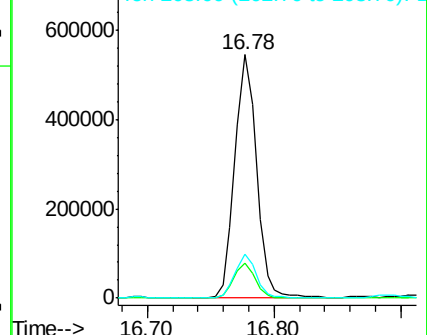
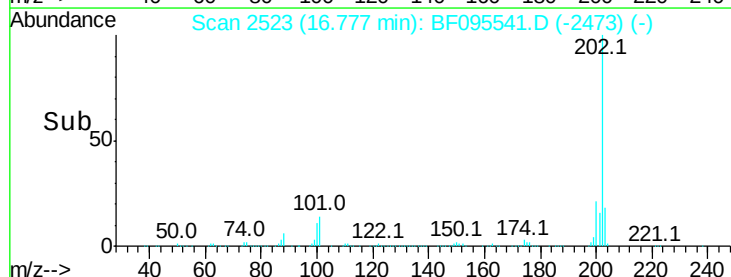
203 17.8 0.0 38.1

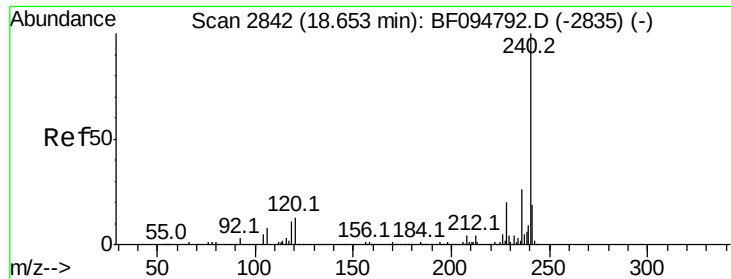


Abundance Ion 202.00 (201.70 to 202.70): E

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: 18.67 min Scan# 2845

Delta R.T. -0.01 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

Instrument :

BNA_F

ClientSampleId :

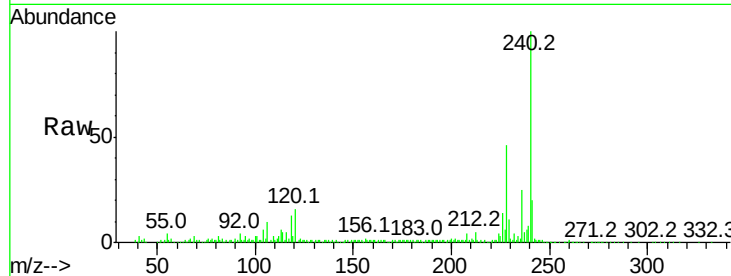
Tot Ion:240 Resp: 209715

Ion Ratio Lower Upper

240 100

120 16.0 5.8 8.8#

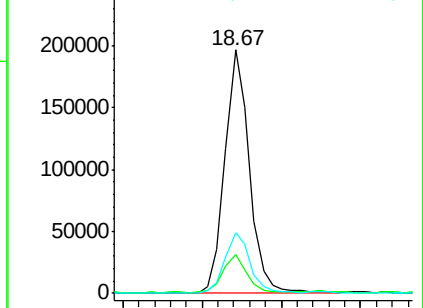
236 24.7 20.5 30.7



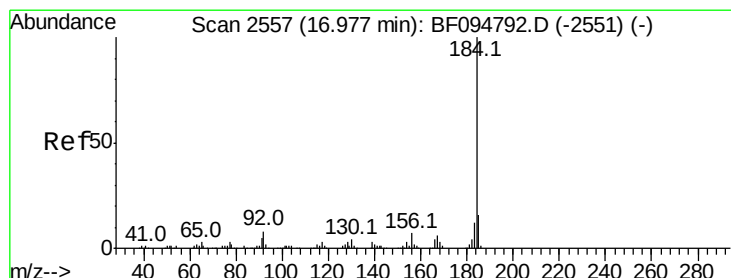
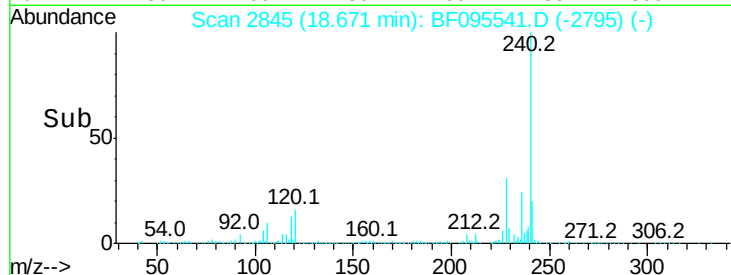
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time--> 18.60 18.65 18.70 18.75



#76

Benzidine

Concen: 6.61 ng

RT: 17.04 min Scan# 2568

Delta R.T. 0.04 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

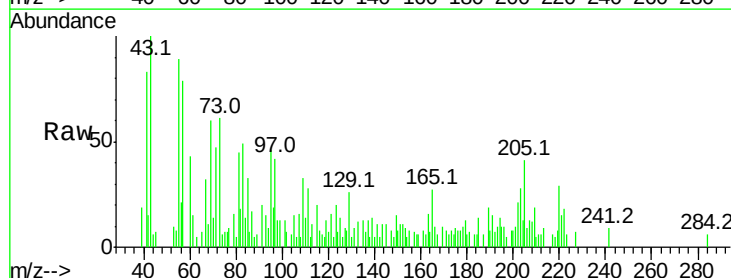
Tgt Ion:184 Resp: 133

Ion Ratio Lower Upper

184 100

185 238.2 15.5 23.3#

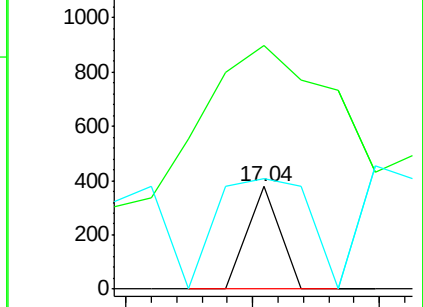
183 108.0 9.8 14.6#



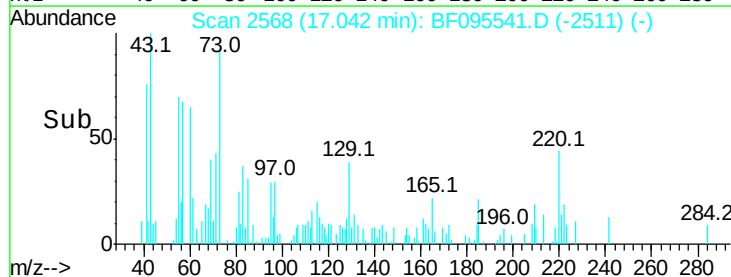
Abundance Ion 184.00 (183.70 to 184.70): E

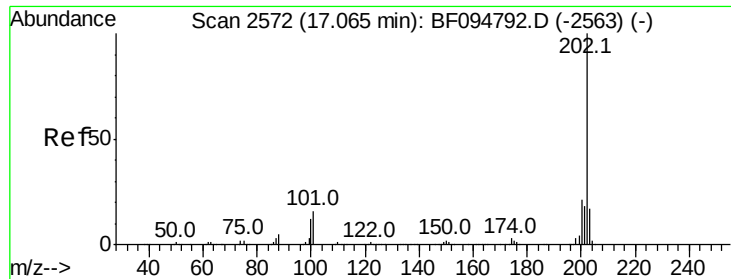
Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



Time--> 17.02 17.04 17.06





#77

Pvrene

Concen: 36.40 ng

RT: 17.08 min Scan# 2575

Delta R.T. -0.01 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

Instrument :

BNA_F

ClientSampleId :

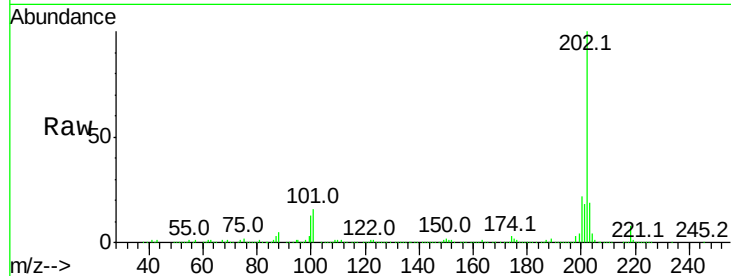
Tot Ion:202 Resp: 570879

Ion Ratio Lower Upper

202 100

200 21.7 17.6 26.4

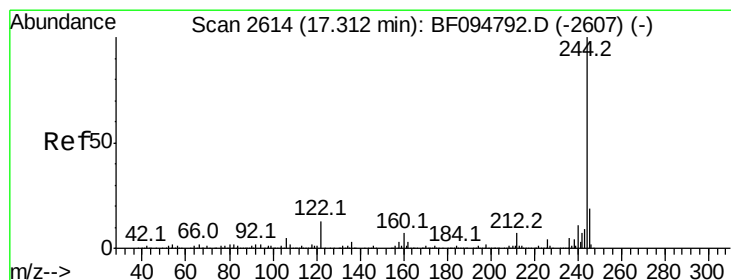
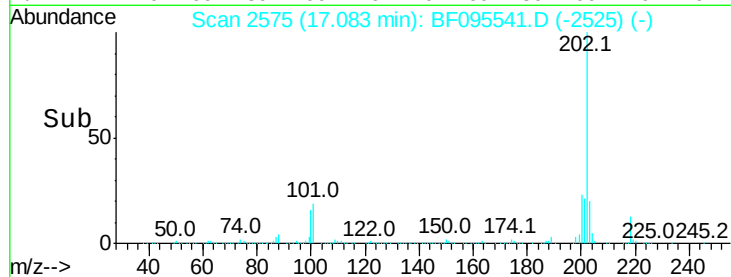
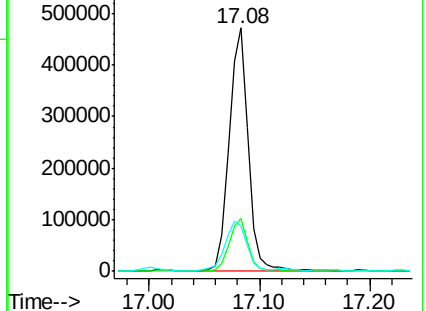
203 18.8 14.4 21.6



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: 54.87 ng

RT: 17.31 min Scan# 2614

Delta R.T. -0.01 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

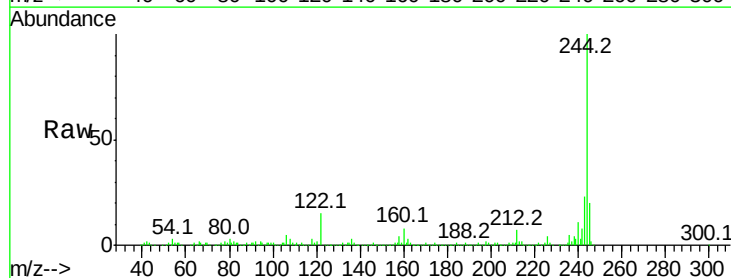
Tgt Ion:244 Resp: 522461

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

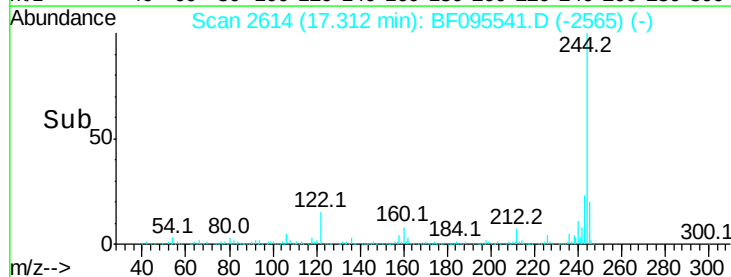
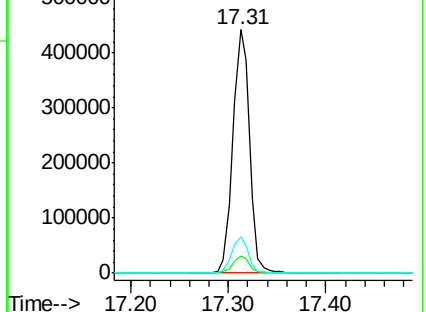
122 14.9 10.3 15.5

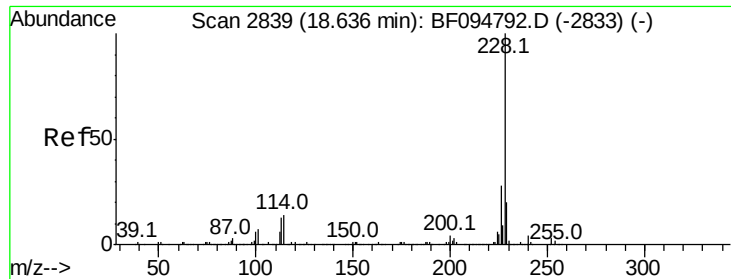


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 23.34 ng

RT: 18.66 min Scan# 2843

Delta R.T. -0.01 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

Instrument :

BNA_F

ClientSampleId :

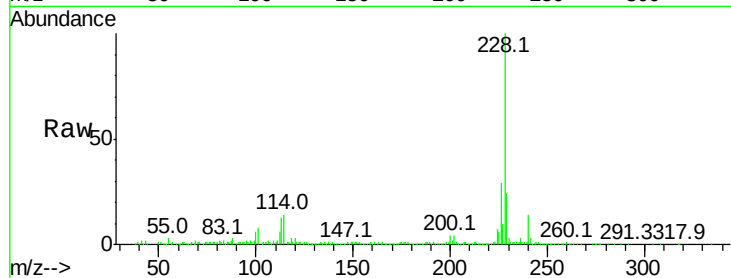
Tot Ion:228 Resp: 284920

Ion Ratio Lower Upper

228 100

226 28.8 22.6 33.8

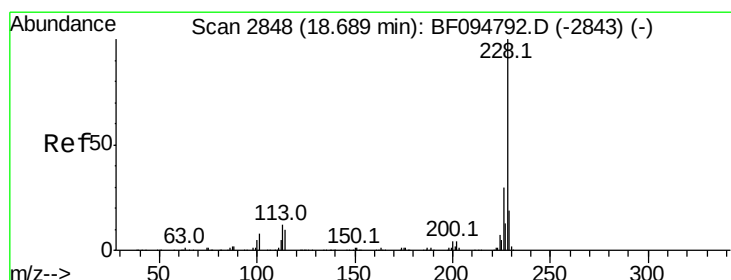
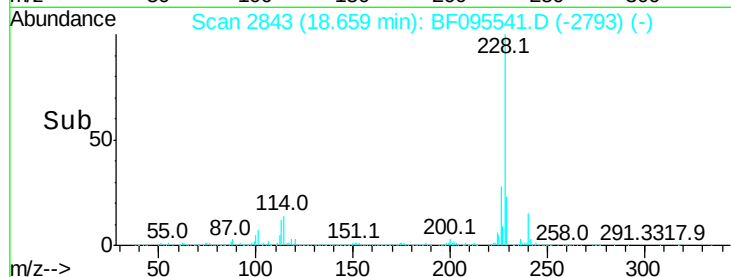
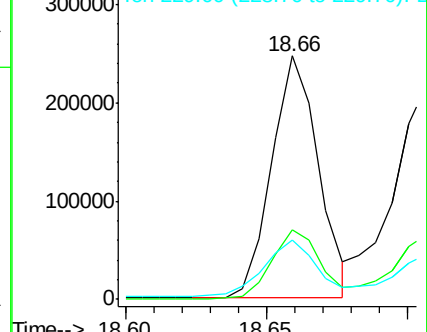
229 24.4 16.3 24.5



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: 22.41 ng

RT: 18.71 min Scan# 2851

Delta R.T. -0.01 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

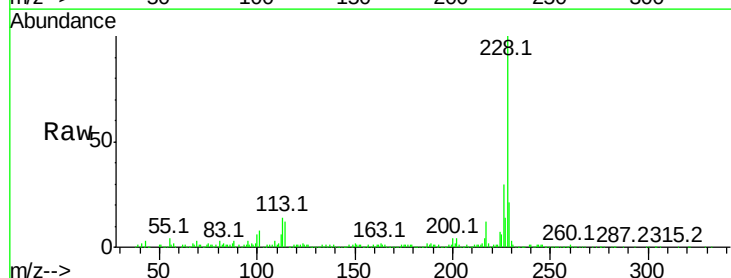
Tgt Ion:228 Resp: 264437

Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

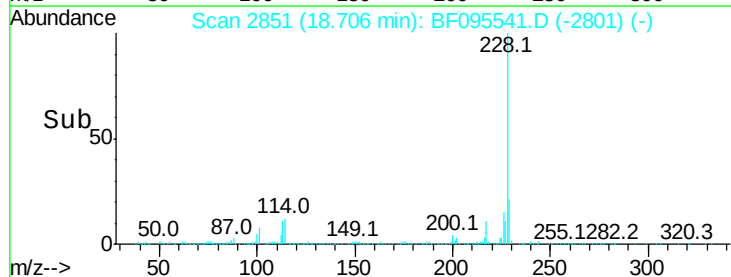
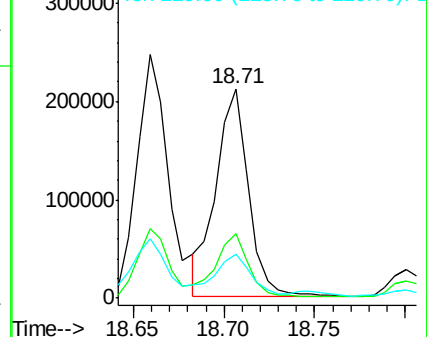
229 21.2 15.8 23.6

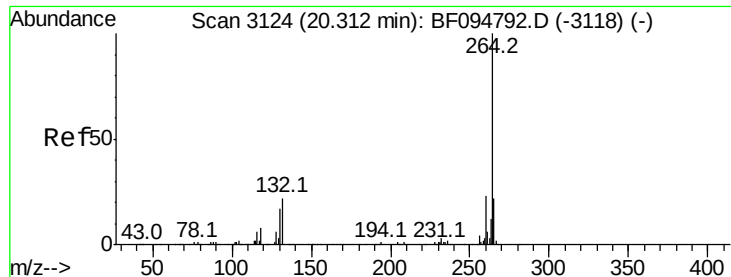


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

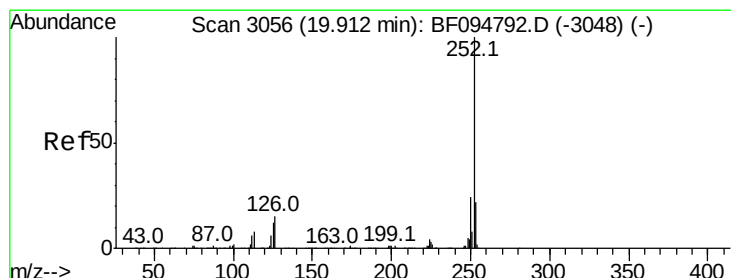
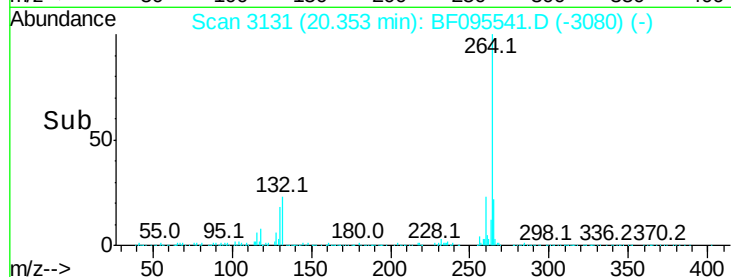
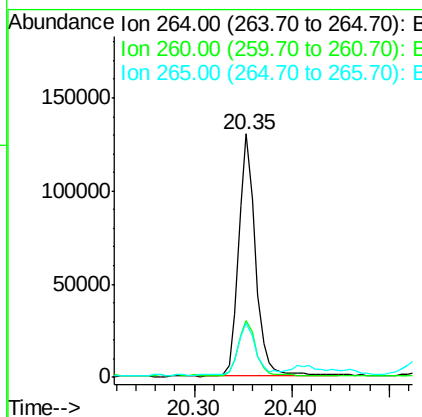
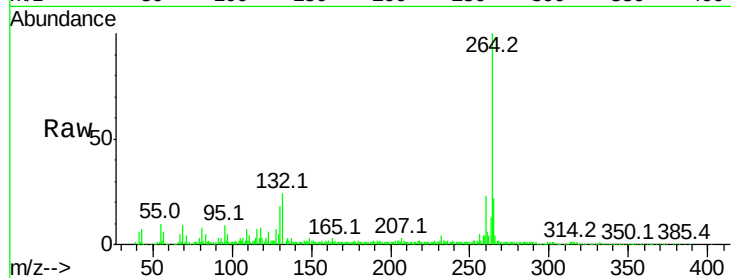




#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.35 min Scan# 3131
Delta R.T. -0.00 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

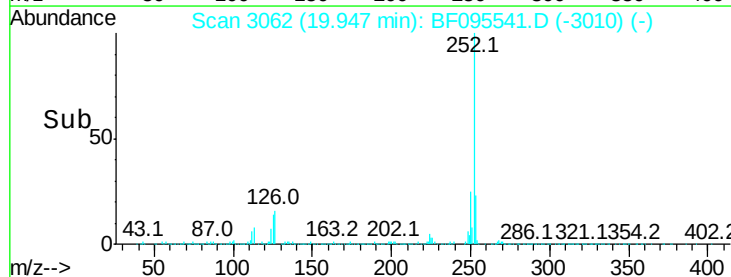
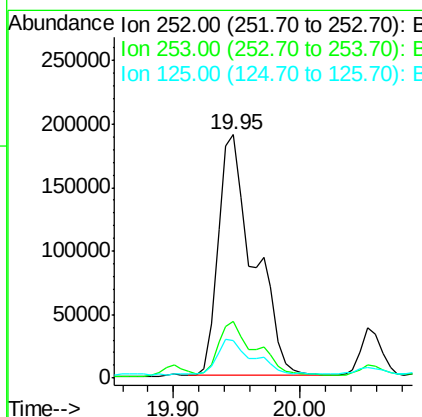
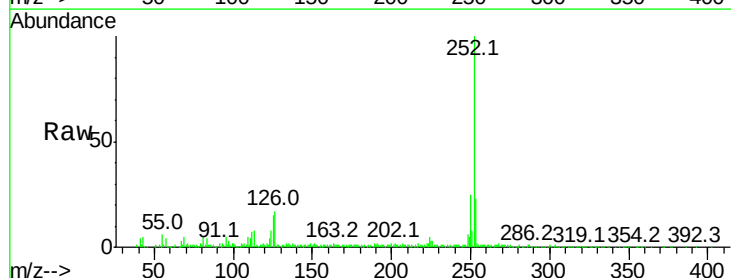
Instrument :
BNA_F
ClientSampleId :

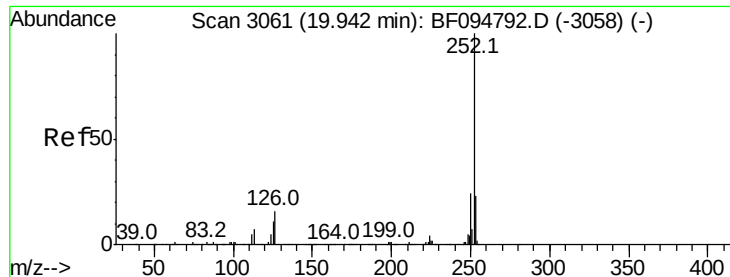
Tot Ion:264 Resp: 157531
Ion Ratio Lower Upper
264 100
260 23.3 19.5 29.3
265 22.1 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 38.16 ng
RT: 19.95 min Scan# 3062
Delta R.T. 0.01 min
Lab File: BF095541.D
Acq: 30 May 2017 18:16

Tgt Ion:252 Resp: 371429
Ion Ratio Lower Upper
252 100
253 23.2 18.1 27.1
125 15.3 9.8 14.8#





#88

Benzo(k)fluoranthene

Concen: 39.56 ng

RT: 19.95 min Scan# 3062

Delta R.T. -0.02 min

Lab File: BF095541.D

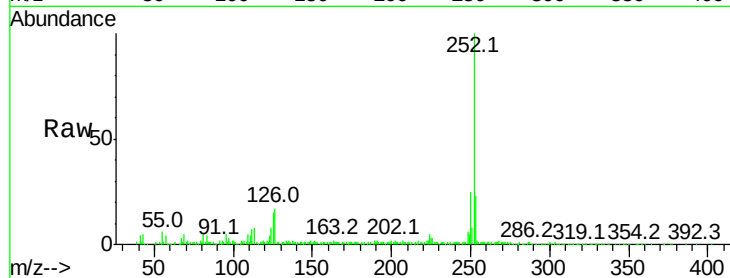
Acq: 30 May 2017 18:16

Instrument :

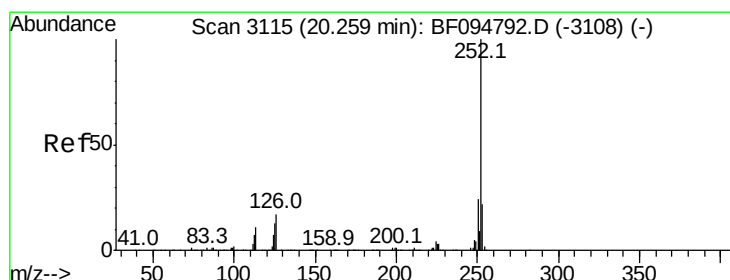
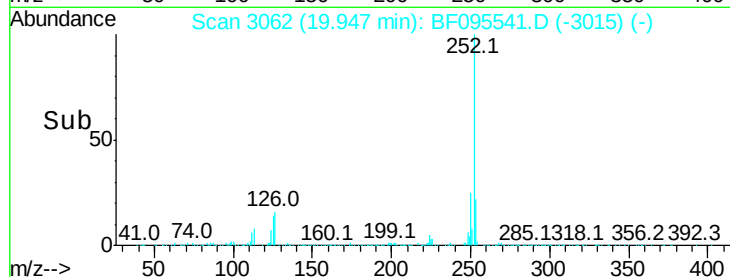
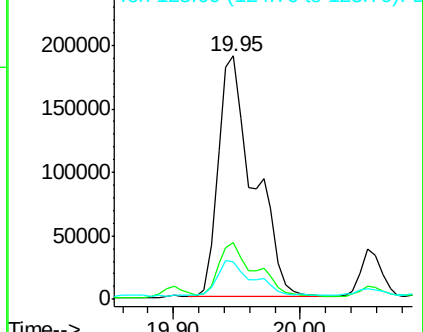
BNA_F

ClientSampled :

Tot Ion:252	Resp:	371429
Ion Ratio	Lower	Upper
252	100	
253	23.2	18.4 27.6
125	15.3	13.1 19.7



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



#89

Benzo(a)pyrene

Concen: 21.76 ng

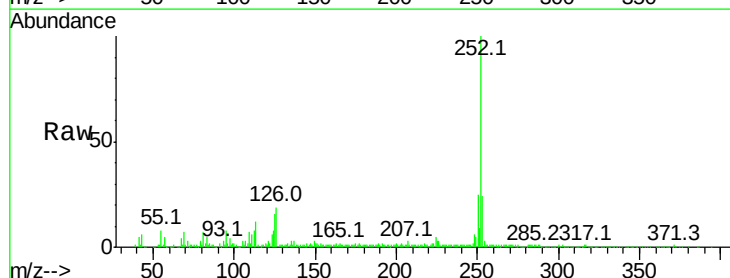
RT: 20.30 min Scan# 3122

Delta R.T. -0.00 min

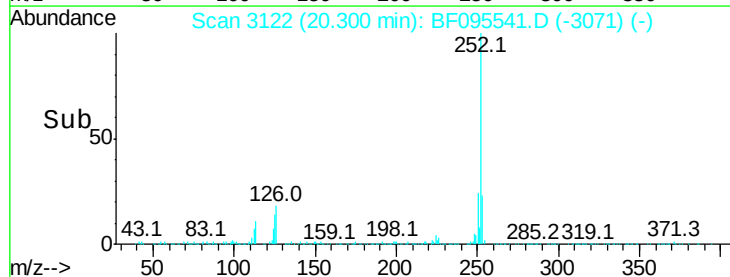
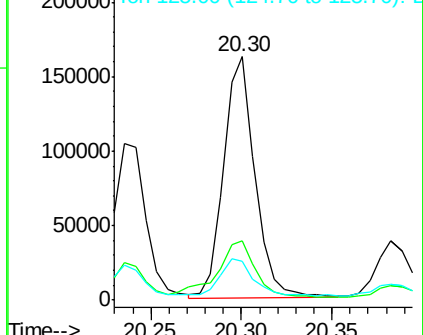
Lab File: BF095541.D

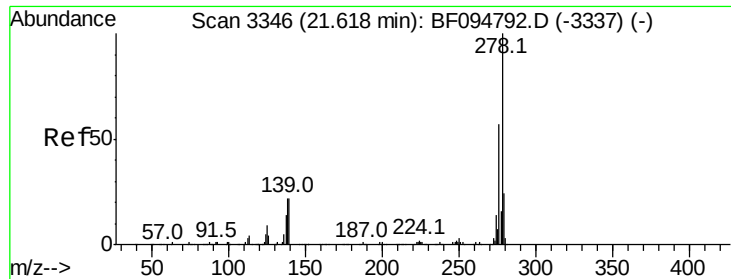
Acq: 30 May 2017 18:16

Tgt Ion:252	Resp:	195469
Ion Ratio	Lower	Upper
252	100	
253	24.4	17.5 26.3
125	15.8	11.0 16.4



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





#90

Dibenzo(a,h)anthracene

Concen: 3.09 ng

RT: 21.69 min Scan# 3358

Delta R.T. 0.01 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

Instrument :

BNA_F

ClientSampleId :

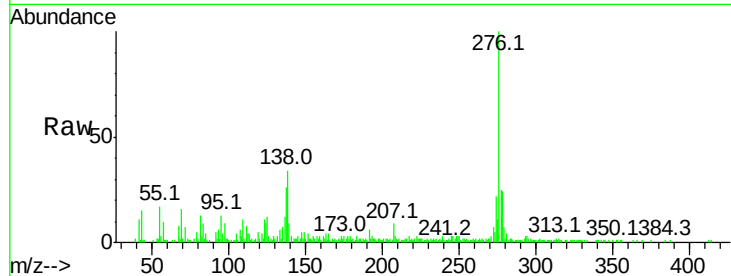
Tot Ion:278 Resp: 22903

Ion Ratio Lower Upper

278 100

139 36.2 16.6 24.8#

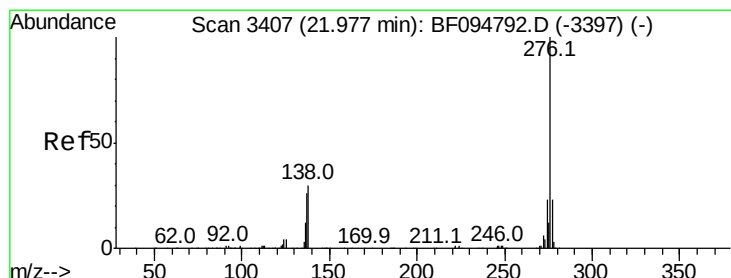
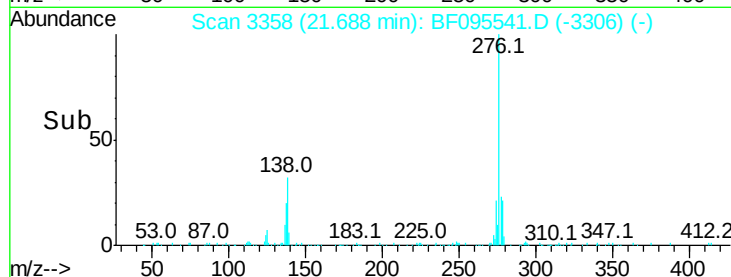
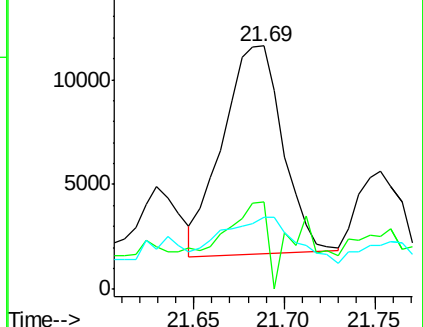
279 29.5 19.3 28.9#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 12.54 ng

RT: 22.08 min Scan# 3425

Delta R.T. 0.01 min

Lab File: BF095541.D

Acq: 30 May 2017 18:16

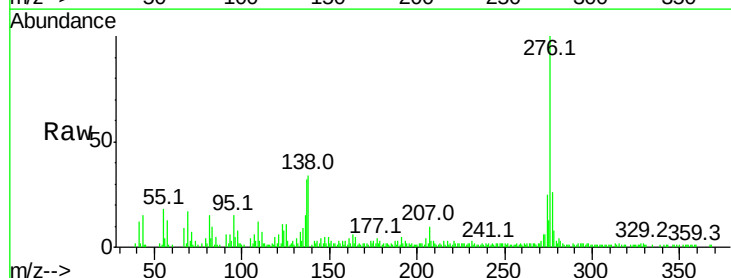
Tgt Ion:276 Resp: 91282

Ion Ratio Lower Upper

276 100

277 26.4 18.6 28.0

138 33.6 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

