

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051717\
 Data File : BF095200.D
 Acq On : 17 May 2017 23:20
 Operator : SJ/MA
 Sample : I3187-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 18 04:13:04 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

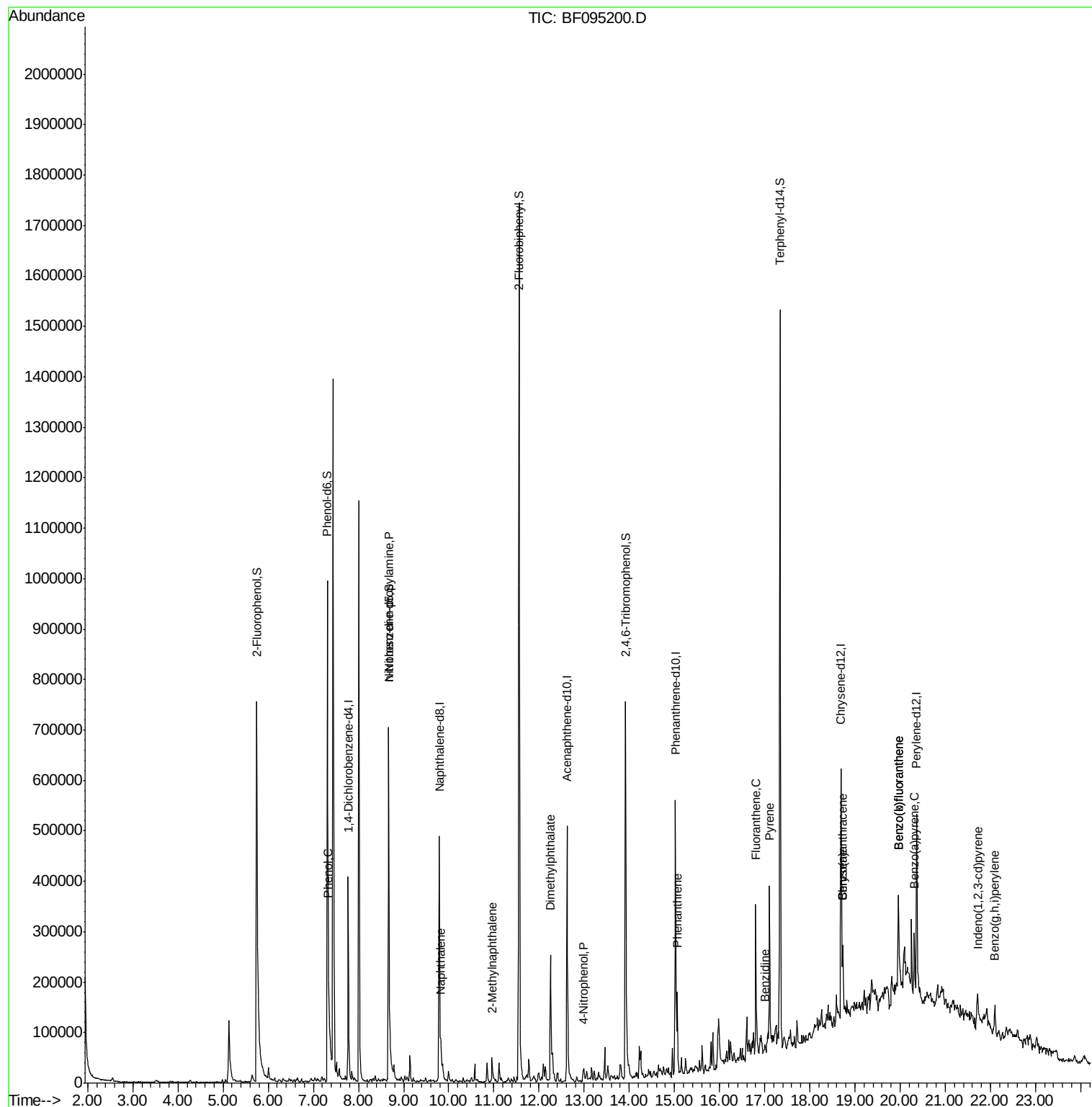
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	92729	20.00	ng	0.04
21) Naphthalene-d8	9.79	136	372953	20.00	ng	0.04
38) Acenaphthene-d10	12.62	164	150304	20.00	ng	0.04
63) Phenanthrene-d10	15.02	188	291540	20.00	ng	0.04
75) Chrysene-d12	18.69	240	196513	20.00	ng	0.04
86) Perylene-d12	20.36	264	169987	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.74	112	583864	104.98	ng	0.06
7) Phenol-d6	7.31	99	718751	107.70	ng	0.03
23) Nitrobenzene-d5	8.67	82	419559	70.94	ng	0.03
41) 2,4,6-Tribromophenol	13.92	330	142331	115.63	ng	0.04
44) 2-Fluorobiphenyl	11.56	172	802779	76.88	ng	0.03
78) Terphenyl-d14	17.34	244	548610	61.49	ng	0.03
Target Compounds						
10) Phenol	7.34	94	17090	2.43	ng	# 60
19) n-Nitroso-di-n-propylamine	8.67	70	52777	11.69	ng	# 77
31) Naphthalene	9.82	128	41417	2.21	ng	100
37) 2-Methylnaphthalene	10.96	142	26975	2.19	ng	98
49) Dimethylphthalate	12.25	163	180355	14.62	ng	98
55) 4-Nitrophenol	12.98	139	4208	2.59	ng	# 36
70) Phenanthrene	15.06	178	100120	5.98	ng	96
74) Fluoranthene	16.80	202	170424	9.92	ng	99
76) Benzidine	17.02	184	112	6.61	ng	# 1
77) Pyrene	17.11	202	148423	10.10	ng	97
80) Benzo(a)anthracene	18.73	228	73838	6.46	ng	96
82) Chrysene	18.73	228	73838	6.68	ng	97
85) Indeno(1,2,3-cd)pyrene	21.72	276	41952	4.67	ng	# 90
87) Benzo(b)fluoranthene	19.96	252	130067	12.38	ng	# 97
88) Benzo(k)fluoranthene	19.96	252	130067	12.84	ng	99
89) Benzo(a)pyrene	20.31	252	56672	5.85	ng	# 95
91) Benzo(a,h,i)perylene	22.10	276	38528	4.90	ng	# 89

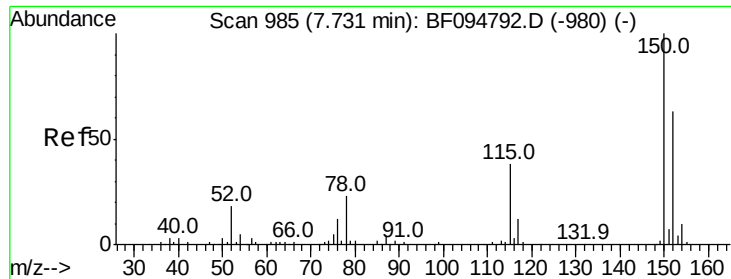
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051717\
Data File : BF095200.D
Acq On : 17 May 2017 23:20
Operator : SJ/MA
Sample : I3187-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :

Quant Time: May 18 04:13:04 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 03 17:24:51 2017
Response via : Initial Calibration



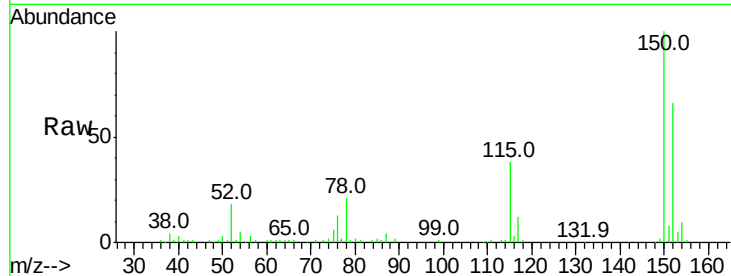


#1

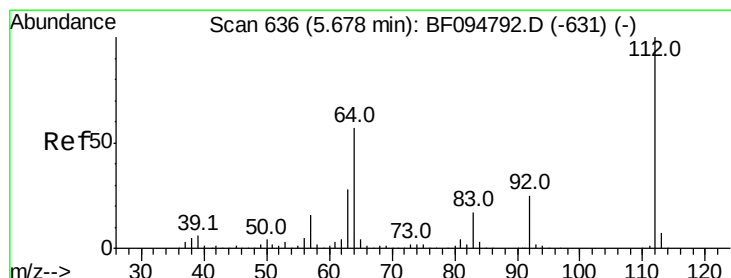
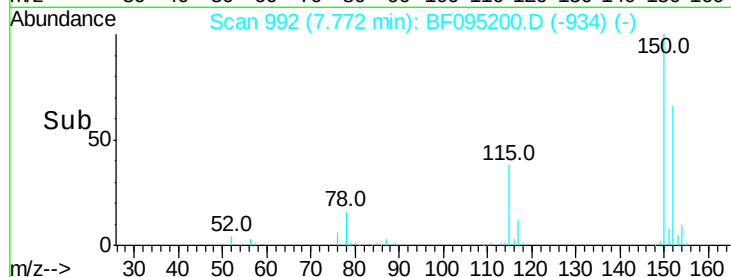
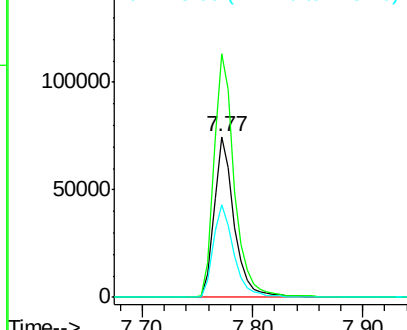
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.77 min Scan# 992
Delta R.T. 0.04 min
Lab File: BF095200.D
Acq: 17 May 2017 23:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 92729
Ion Ratio Lower Upper
152 100
150 151.5 126.2 189.2
115 57.9 52.2 78.2



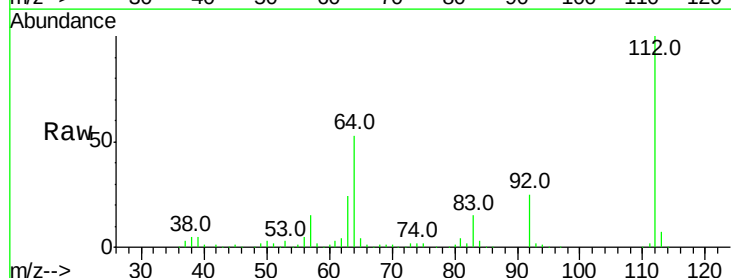
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



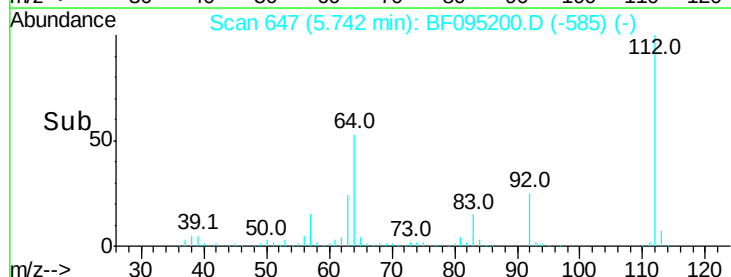
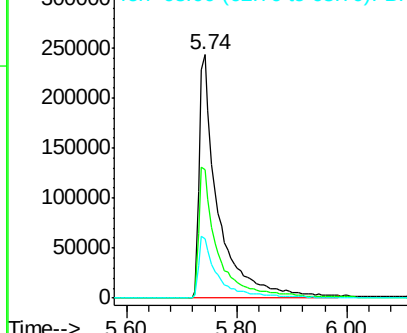
#5

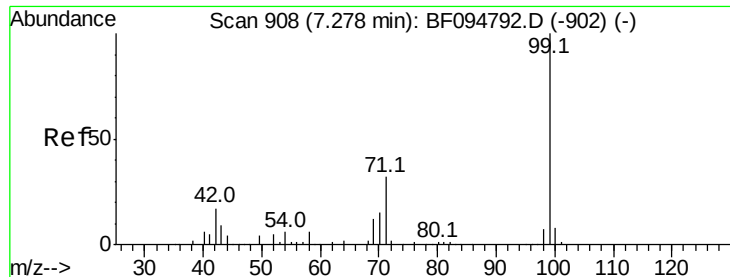
2-Fluorophenol
Concen: 104.98 ng
RT: 5.74 min Scan# 647
Delta R.T. 0.06 min
Lab File: BF095200.D
Acq: 17 May 2017 23:20

Tgt Ion:112 Resp: 583864
Ion Ratio Lower Upper
112 100
64 52.9 46.0 69.0
63 24.3 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: 107.70 ng

RT: 7.31 min Scan# 913

Delta R.T. 0.03 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

Instrument :

BNA_F

ClientSampled :

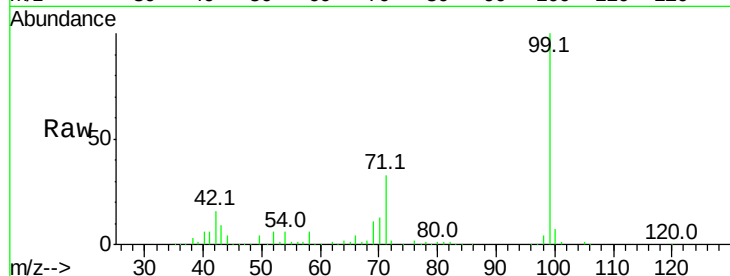
Tot Ion: 99 Resp: 718751

Ion Ratio Lower Upper

99 100

42 16.4 13.5 20.3

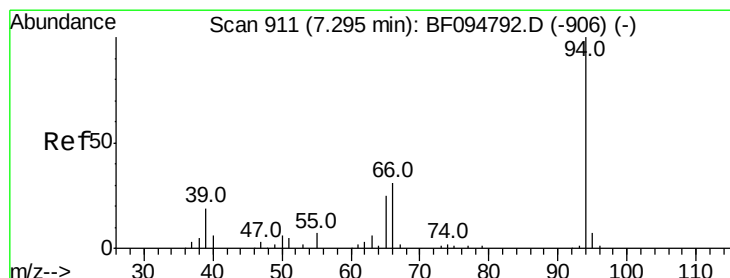
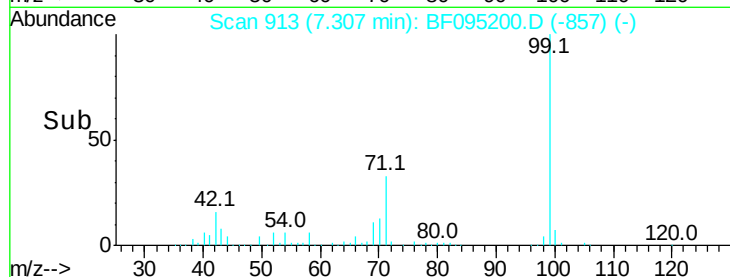
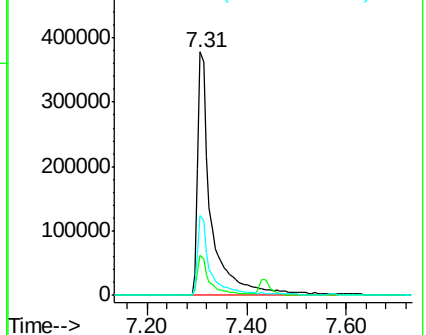
71 32.5 24.5 36.7



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



#10

Phenol

Concen: 2.43 ng

RT: 7.34 min Scan# 918

Delta R.T. 0.04 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

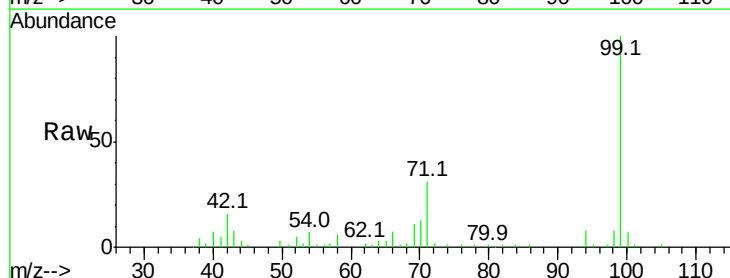
Tgt Ion: 94 Resp: 17090

Ion Ratio Lower Upper

94 100

65 33.3 9.9 49.9

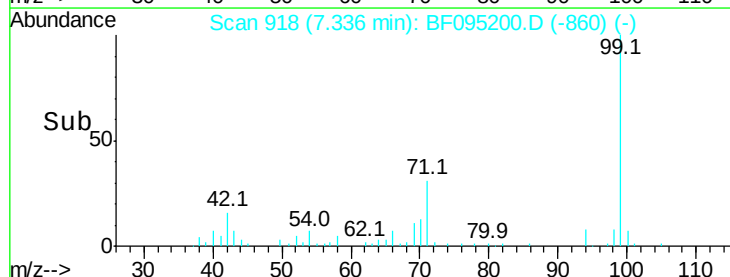
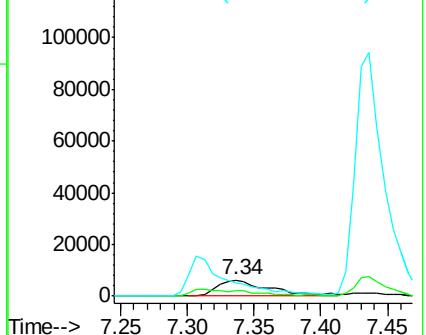
66 84.2 23.1 63.1#

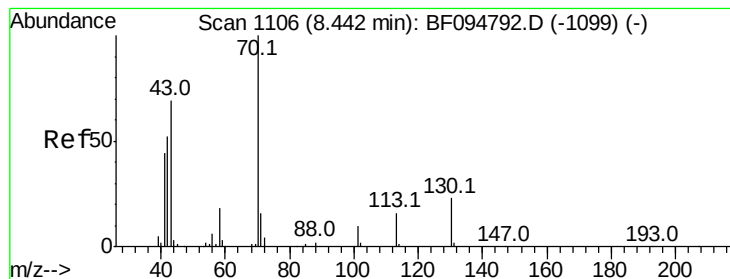


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 11.69 ng

RT: 8.67 min Scan# 1144

Delta R.T. 0.22 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

Instrument :

BNA_F

ClientSampled :

Tot Ion: 70 Resp: 52777

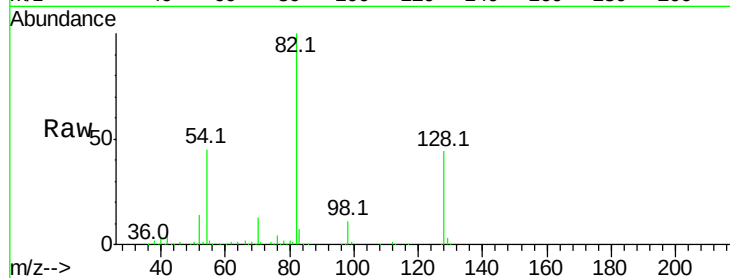
Ion Ratio Lower Upper

70 100

42 46.3 47.2 70.8#

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

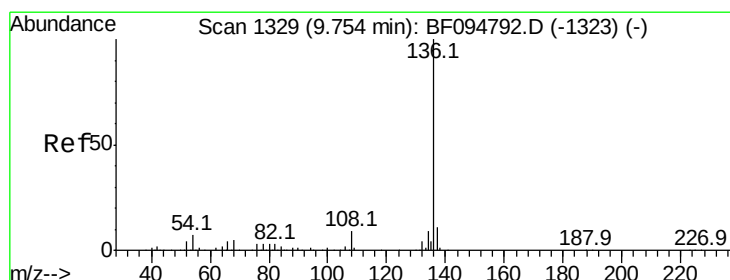
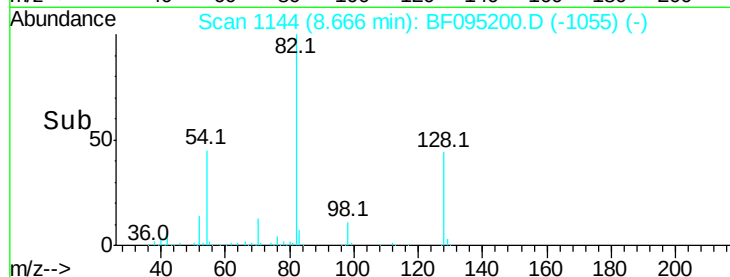
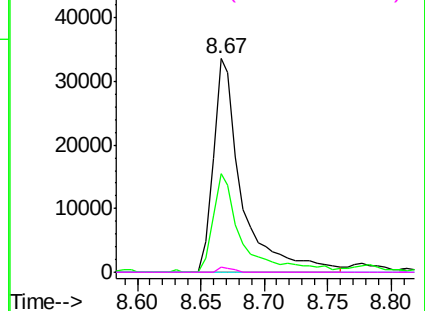


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.79 min Scan# 1335

Delta R.T. 0.04 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

Tgt Ion: 136 Resp: 372953

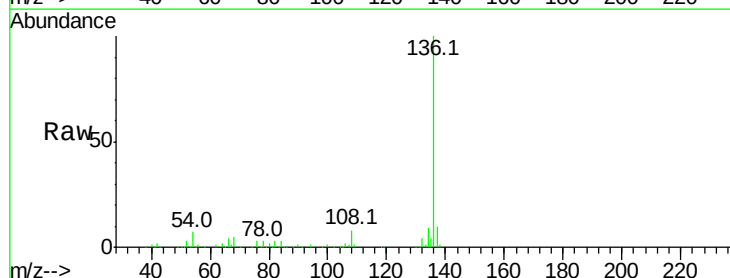
Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 6.9 4.9 7.3

68 5.0 4.1 6.1

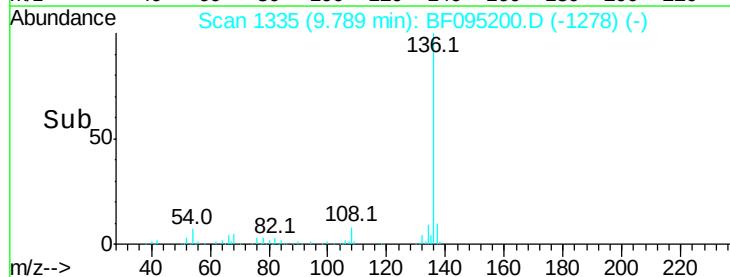
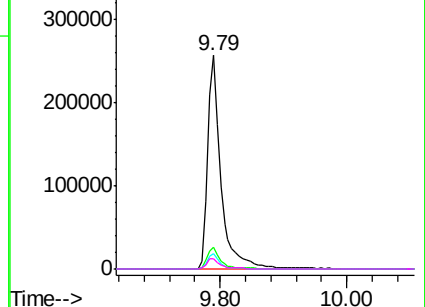


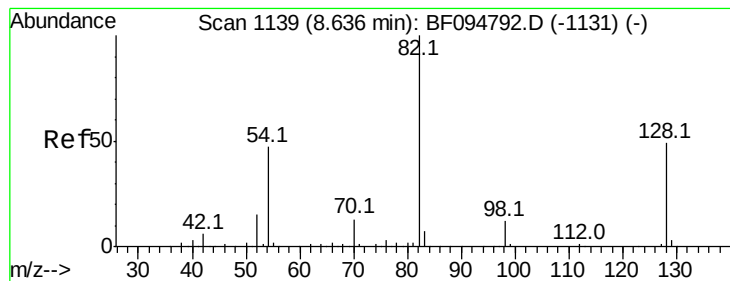
Abundance Ion 136.00 (135.70 to 136.70): E

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





#23

Nitrobenzene-d5

Concen: 70.94 ng

RT: 8.67 min Scan# 1144

Delta R.T. 0.03 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

Instrument :

BNA_F

ClientSampleId :

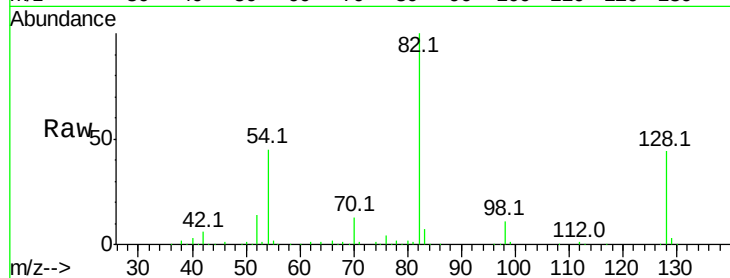
Tot Ion: 82 Resp: 419559

Ion Ratio Lower Upper

82 100

128 44.4 34.0 51.0

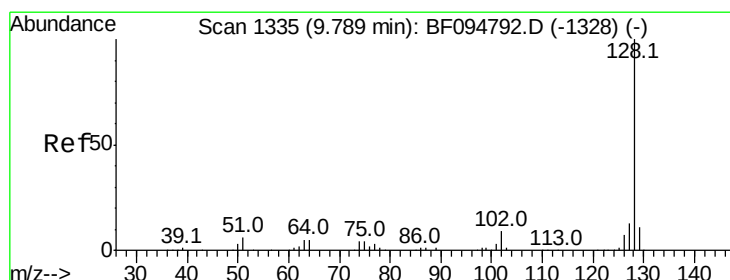
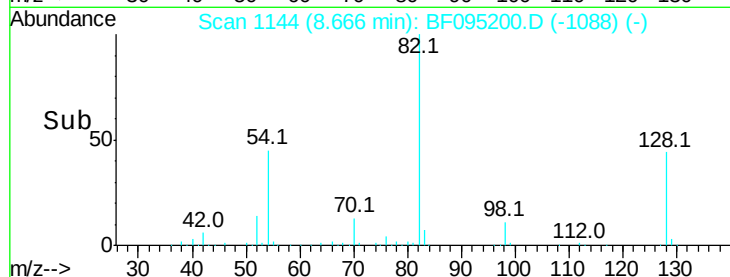
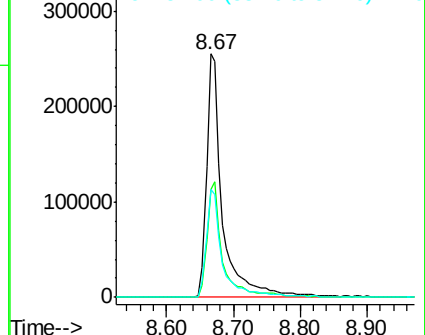
54 44.5 42.2 63.2



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



#31

Naphthalene

Concen: 2.21 ng

RT: 9.82 min Scan# 1341

Delta R.T. 0.04 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

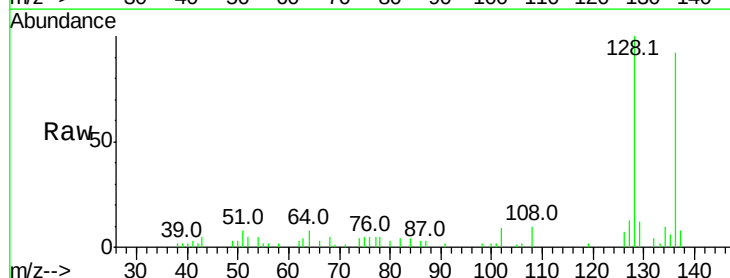
Tgt Ion: 128 Resp: 41417

Ion Ratio Lower Upper

128 100

129 11.7 9.0 13.6

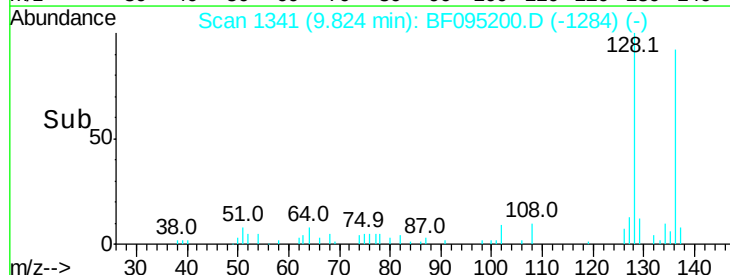
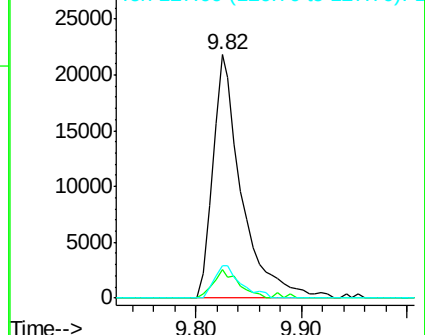
127 13.5 10.8 16.2

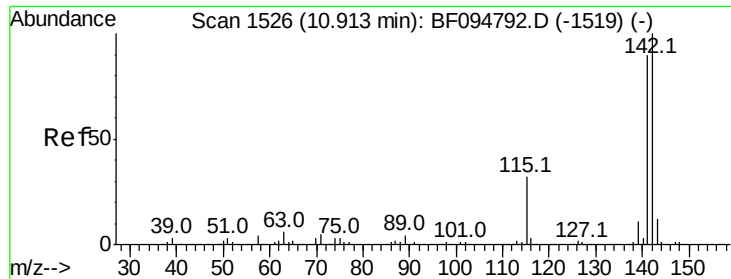


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

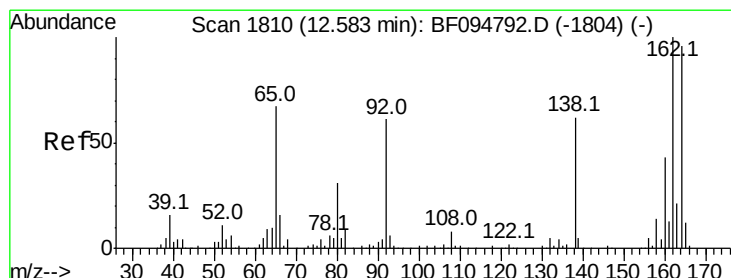
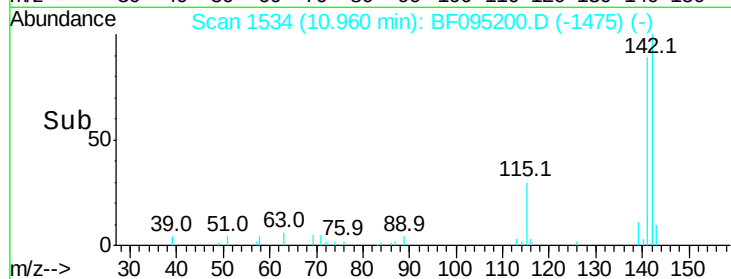
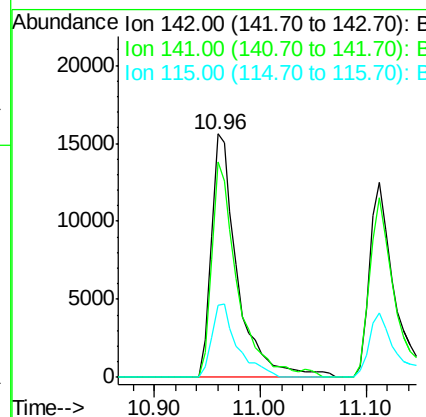
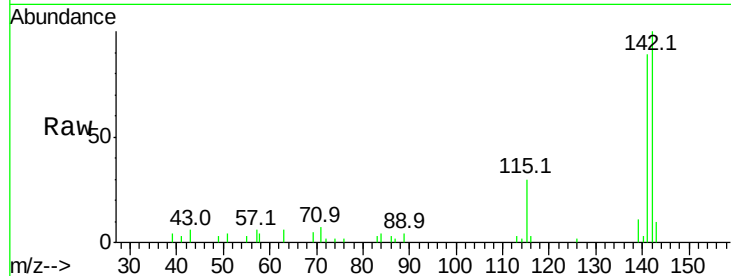




#37
2-Methylnaphthalene
Concen: 2.19 ng
RT: 10.96 min Scan# 1534
Delta R.T. 0.05 min
Lab File: BF095200.D
Acq: 17 May 2017 23:20

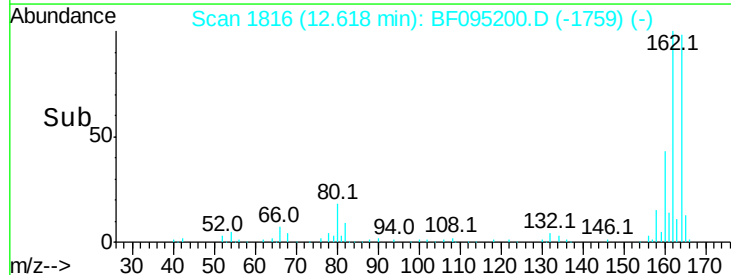
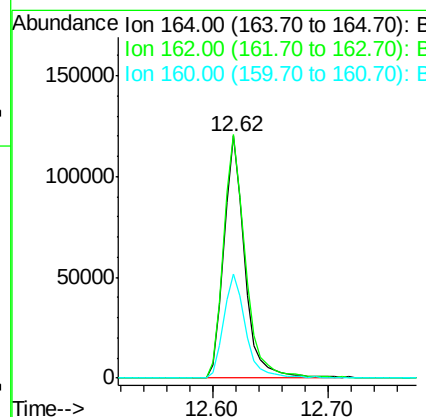
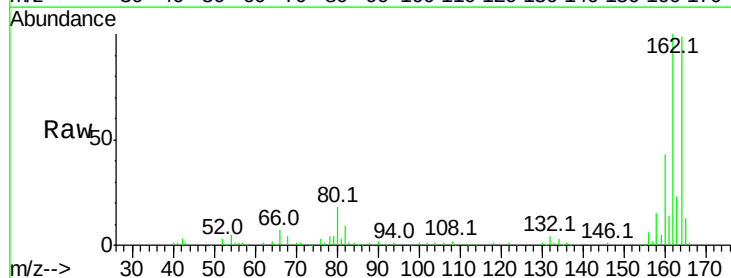
Instrument :
BNA_F
ClientSampleId :

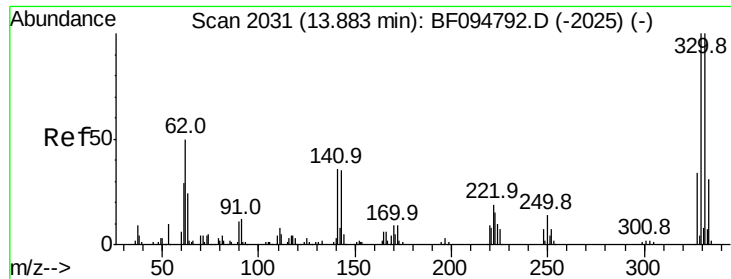
Tot Ion:142 Resp: 26975
Ion Ratio Lower Upper
142 100
141 88.5 71.3 106.9
115 29.8 27.1 40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.62 min Scan# 1816
Delta R.T. 0.04 min
Lab File: BF095200.D
Acq: 17 May 2017 23:20

Tgt Ion:164 Resp: 150304
Ion Ratio Lower Upper
164 100
162 100.7 82.6 123.8
160 42.8 36.2 54.2

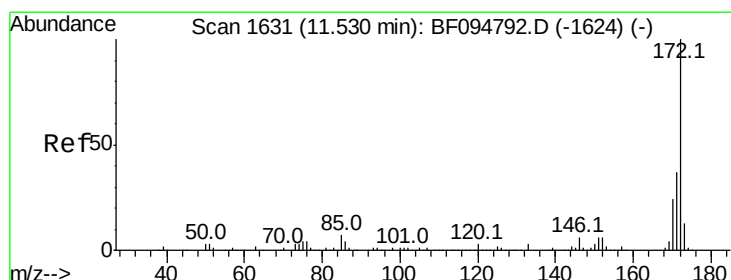
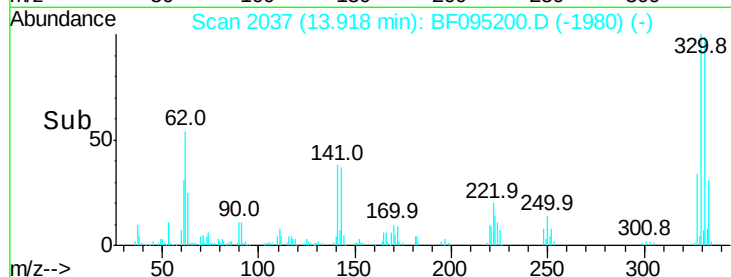
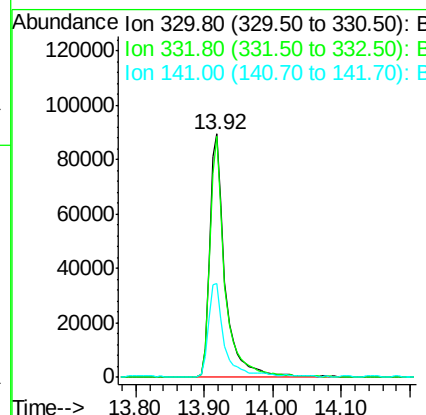
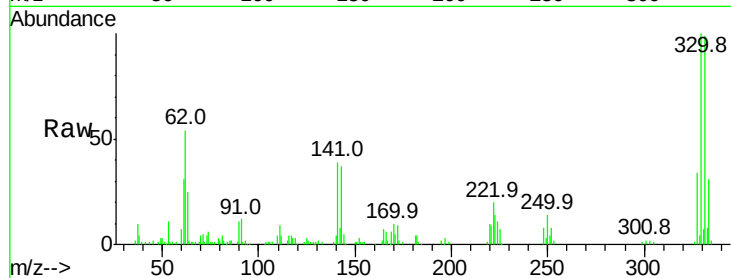




#41
 2,4,6-Tribromophenol
 Concen: 115.63 ng
 RT: 13.92 min Scan# 2037
 Delta R.T. 0.04 min
 Lab File: BF095200.D
 Acq: 17 May 2017 23:20

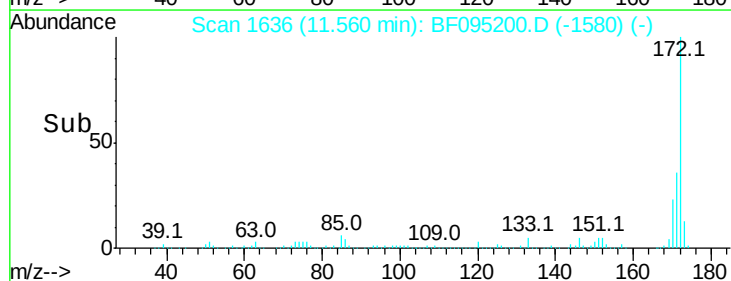
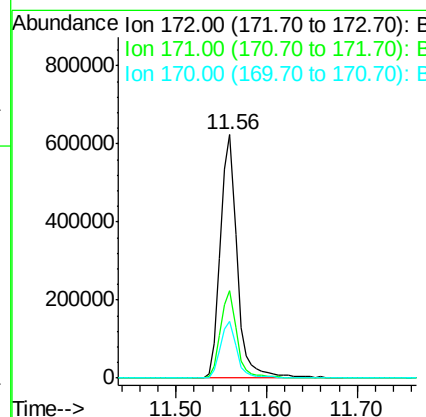
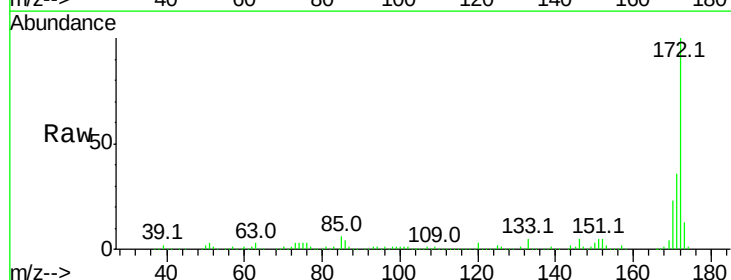
Instrument :
 BNA_F
 ClientSampled :

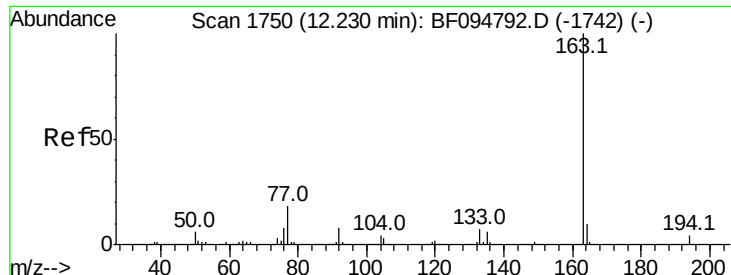
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.6	115.0
141	40.7	31.4	47.2



#44
 2-Fluorobiphenyl
 Concen: 76.88 ng
 RT: 11.56 min Scan# 1636
 Delta R.T. 0.03 min
 Lab File: BF095200.D
 Acq: 17 May 2017 23:20

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.6	44.4
170	23.1	19.8	29.8





#49

Dimethylphthalate

Concen: 14.62 ng

RT: 12.25 min Scan# 1754

Delta R.T. 0.02 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

Instrument :

BNA_F

ClientSampleId :

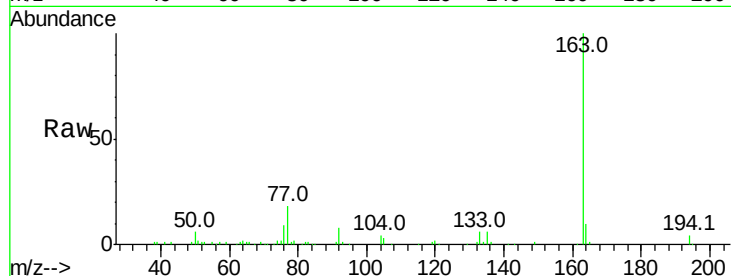
Tot Ion:163 Resp: 180355

Ion Ratio Lower Upper

163 100

194 3.8 2.6 4.0

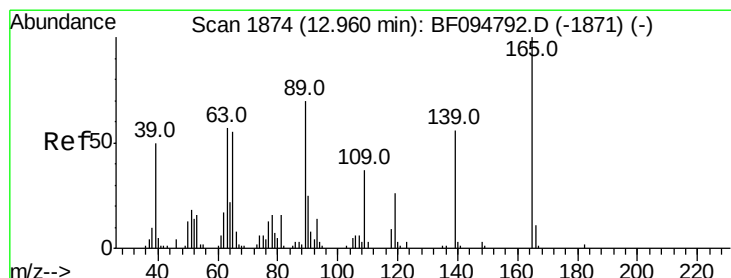
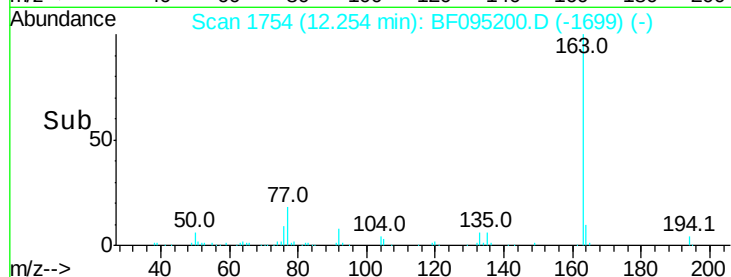
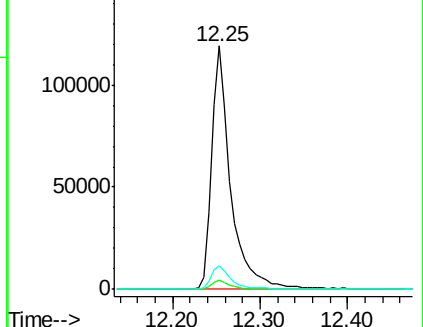
164 9.5 8.4 12.6



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



#55

4-Nitrophenol

Concen: 2.59 ng

RT: 12.98 min Scan# 1878

Delta R.T. 0.02 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

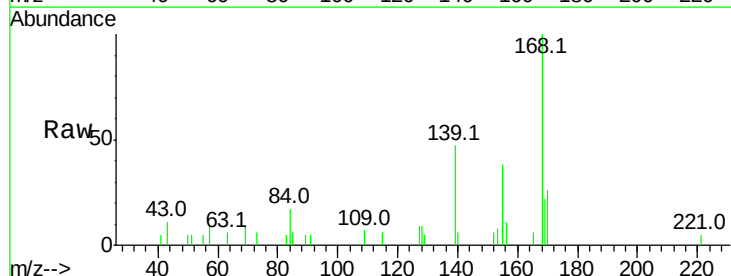
Tgt Ion:139 Resp: 4208

Ion Ratio Lower Upper

139 100

109 14.5 34.1 74.1#

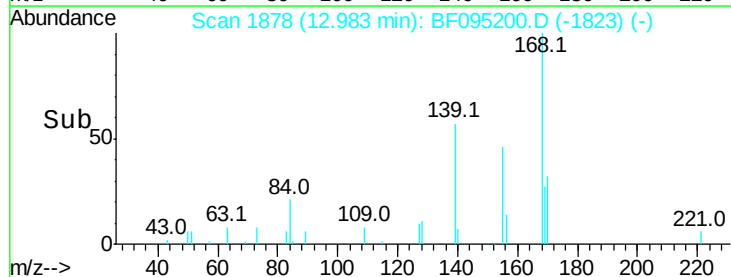
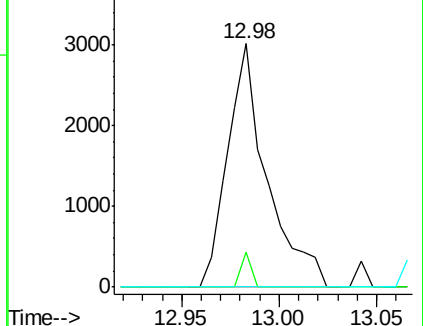
65 0.0 31.4 71.4#

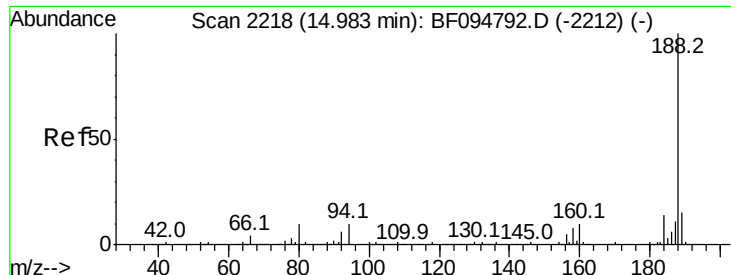


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

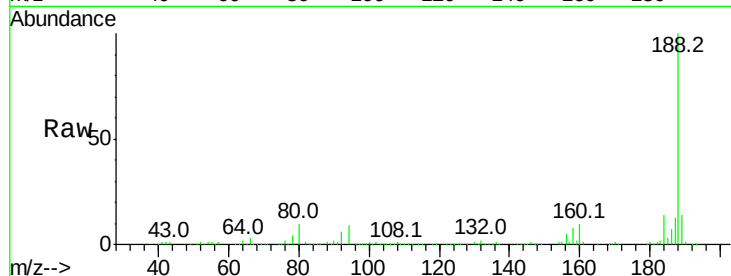




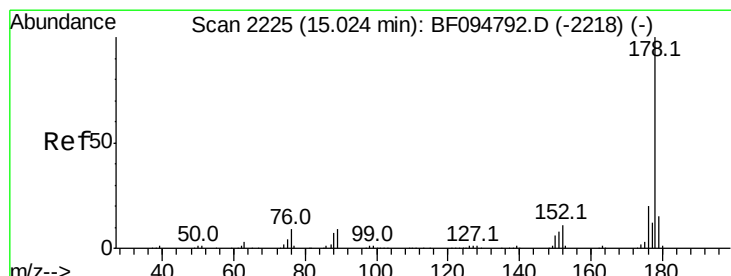
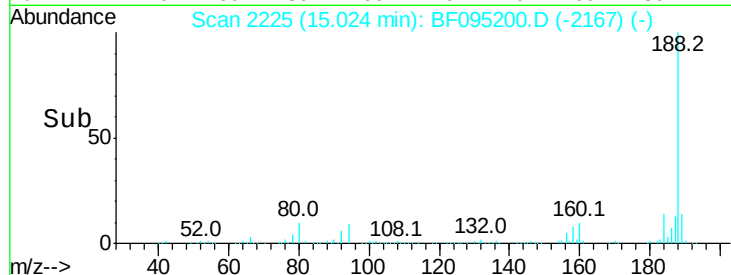
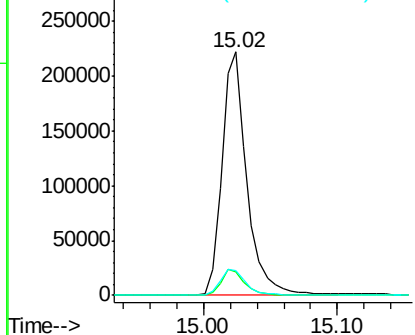
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 15.02 min Scan# 2225
Delta R.T. 0.04 min
Lab File: BF095200.D
Acq: 17 May 2017 23:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
188	100		
94	9.5	9.4	14.2
80	9.9	10.2	15.2#

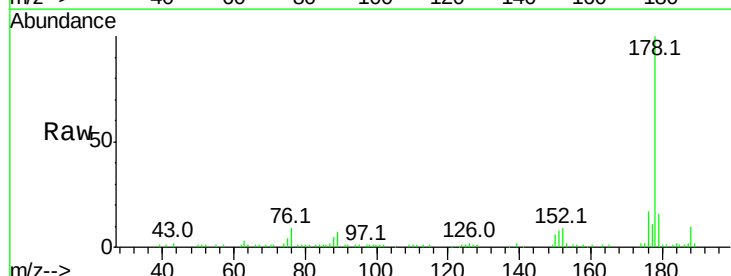


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

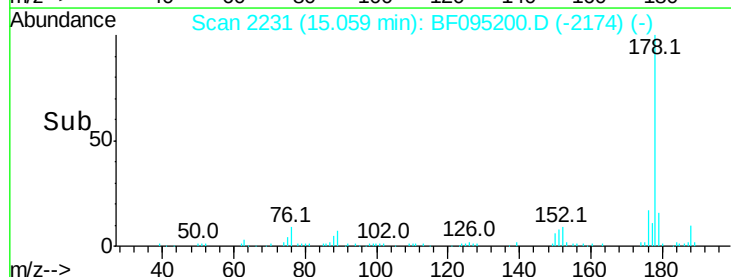
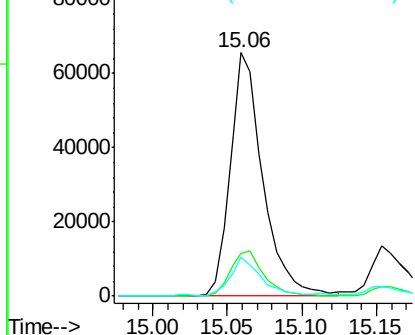


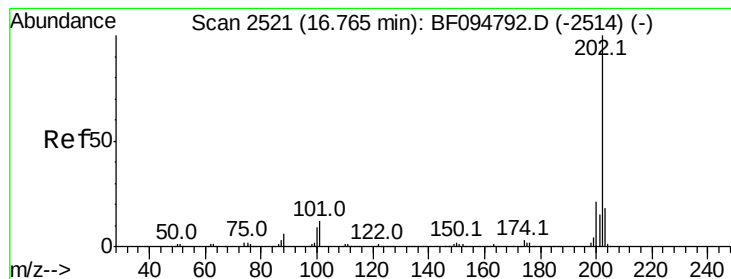
#70
Phenanthrene
Concen: 5.98 ng
RT: 15.06 min Scan# 2231
Delta R.T. 0.04 min
Lab File: BF095200.D
Acq: 17 May 2017 23:20

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.4	16.2	24.4
179	15.7	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





#74

Fluoranthene

Concen: 9.92 ng

RT: 16.80 min Scan# 2527

Delta R.T. 0.04 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

Instrument :

BNA_F

ClientSampleId :

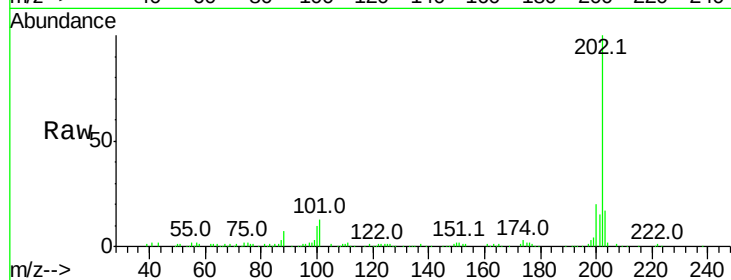
Tot Ion:202 Resp: 170424

Ion Ratio Lower Upper

202 100

101 13.5 0.0 33.2

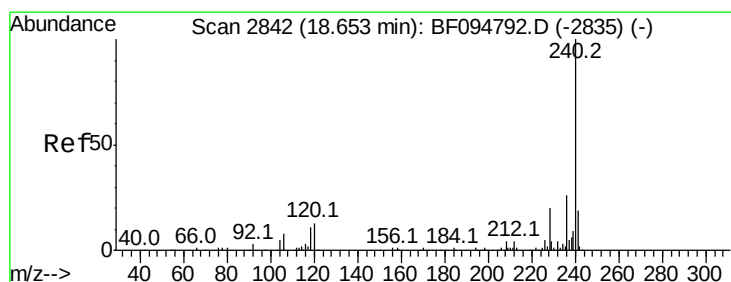
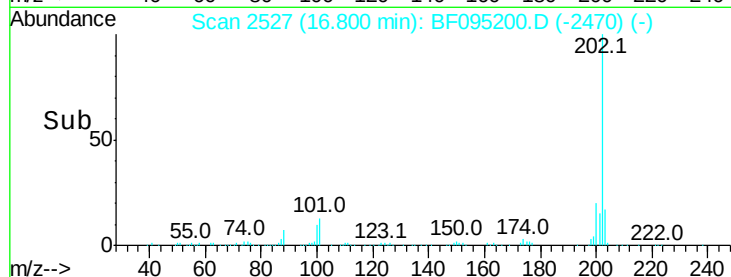
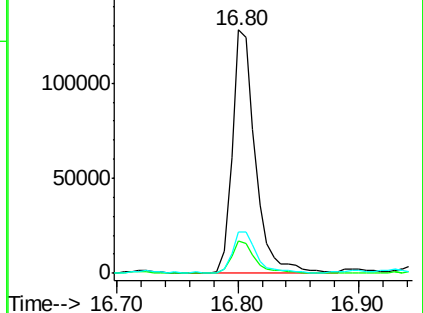
203 17.2 0.0 38.1



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: 18.69 min Scan# 2849

Delta R.T. 0.04 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

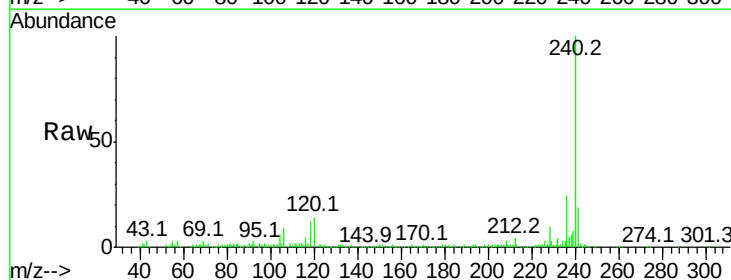
Tgt Ion:240 Resp: 196513

Ion Ratio Lower Upper

240 100

120 14.0 5.8 8.8#

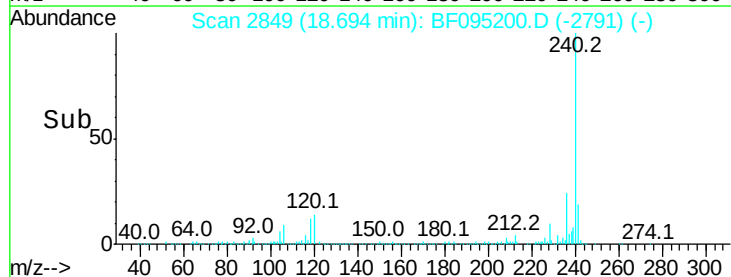
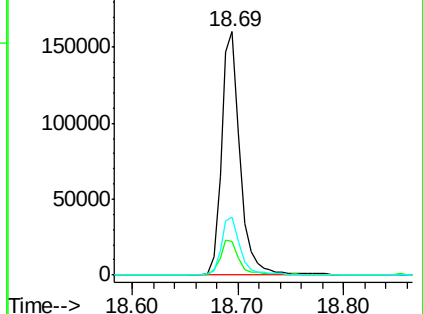
236 23.8 20.5 30.7

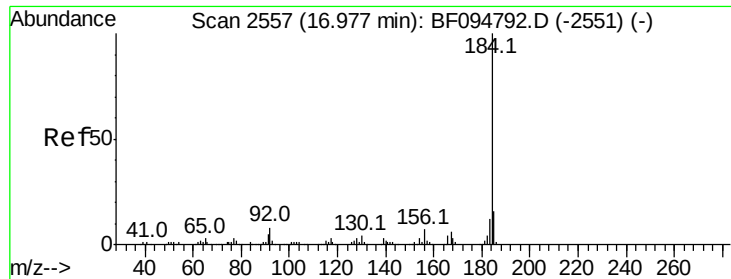


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 6.61 ng

RT: 17.02 min Scan# 2564

Delta R.T. 0.04 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

Instrument :

BNA_F

ClientSampleId :

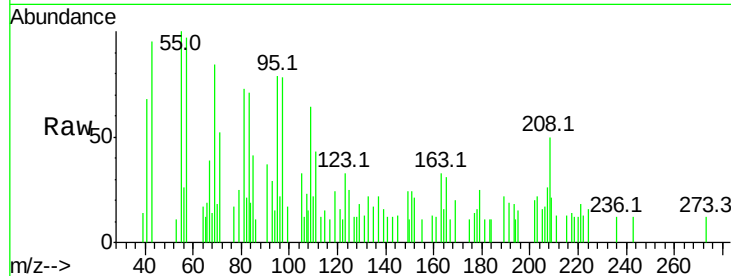
Tot Ion:184 Resp: 112

Ion Ratio Lower Upper

184 100

185 0.0 15.5 23.3#

183 99.4 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

17.02

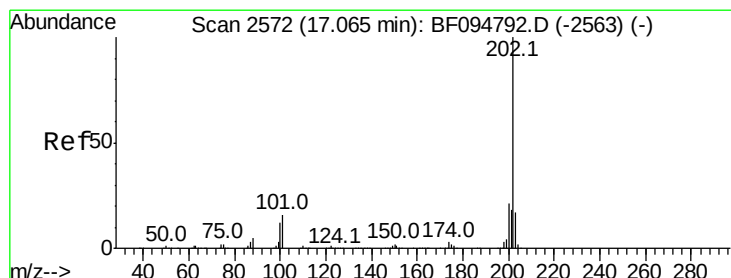
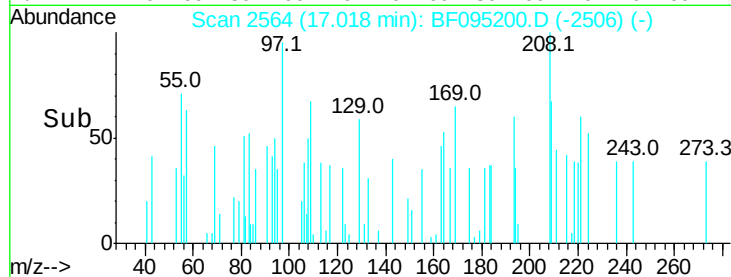
300

200

100

0

Time--> 17.00 17.02



#77

Pyrene

Concen: 10.10 ng

RT: 17.11 min Scan# 2579

Delta R.T. 0.04 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

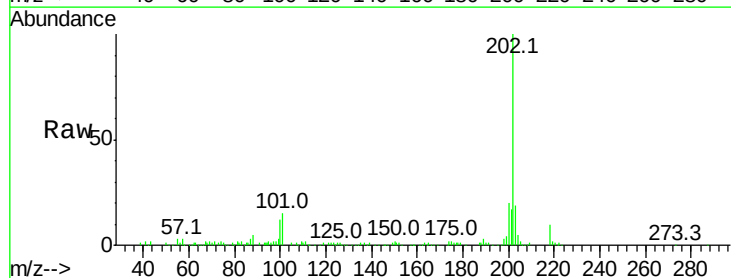
Tgt Ion:202 Resp: 148423

Ion Ratio Lower Upper

202 100

200 20.3 17.6 26.4

203 19.1 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

17.11

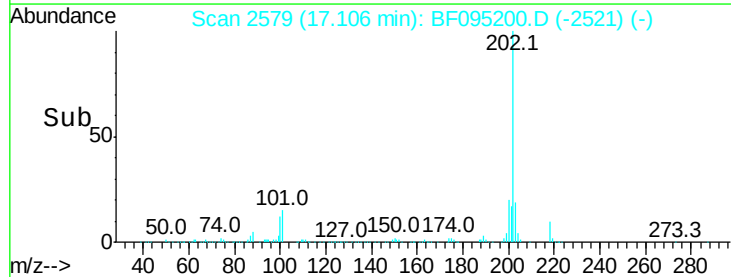
150000

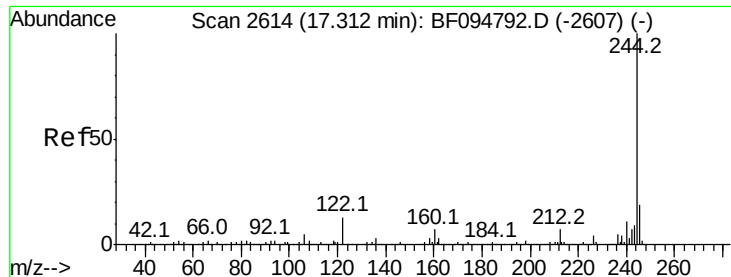
100000

50000

0

Time--> 17.05 17.10 17.15 17.20





#78

Terphenyl-d14

Concen: 61.49 ng

RT: 17.34 min Scan# 2619

Delta R.T. 0.03 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

Instrument :

BNA_F

ClientSampleId :

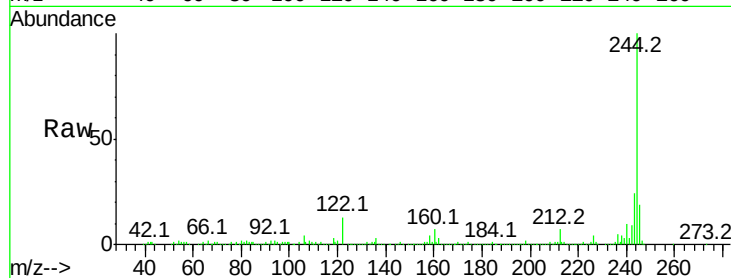
Tot Ion:244 Resp: 548610

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

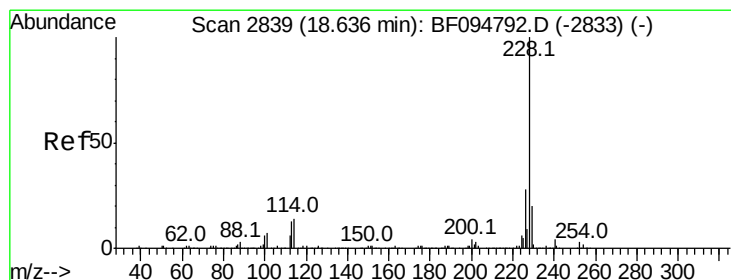
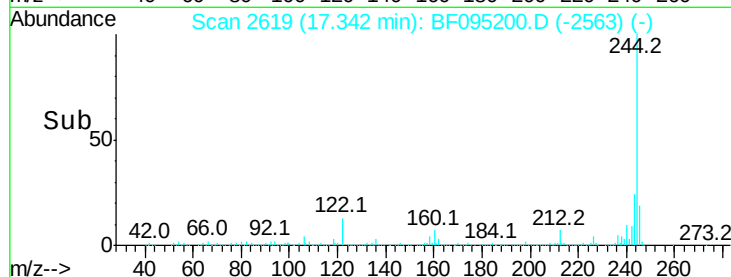
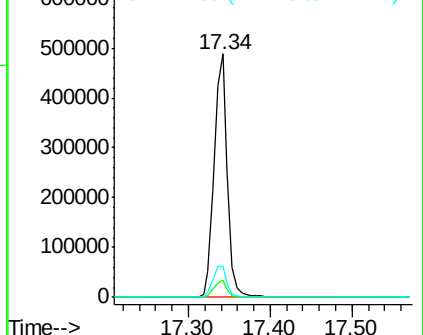
122 13.0 10.3 15.5



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: 6.46 ng

RT: 18.73 min Scan# 2855

Delta R.T. 0.09 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

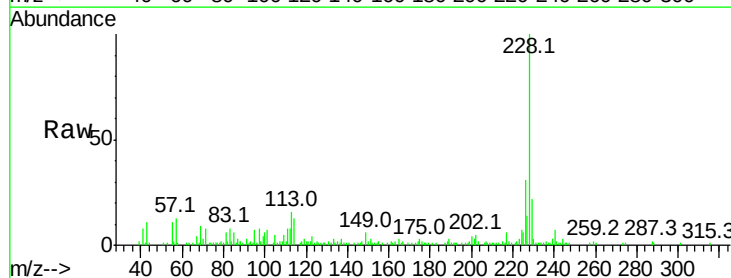
Tgt Ion:228 Resp: 73838

Ion Ratio Lower Upper

228 100

226 30.5 22.6 33.8

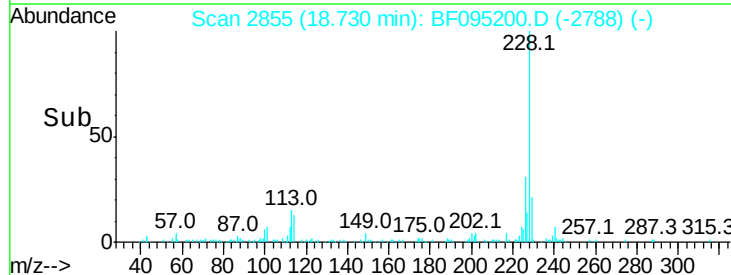
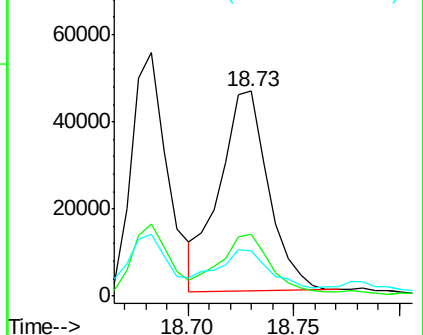
229 21.9 16.3 24.5

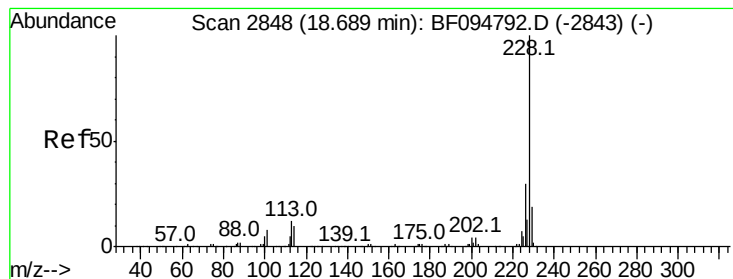


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 6.68 ng

RT: 18.73 min Scan# 2855

Delta R.T. 0.04 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

Instrument :

BNA_F

ClientSampleId :

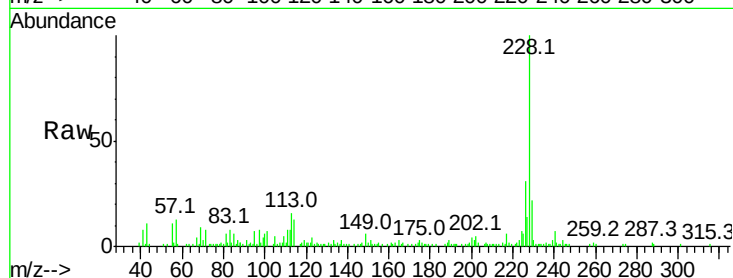
Tot Ion:228 Resp: 73838

Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

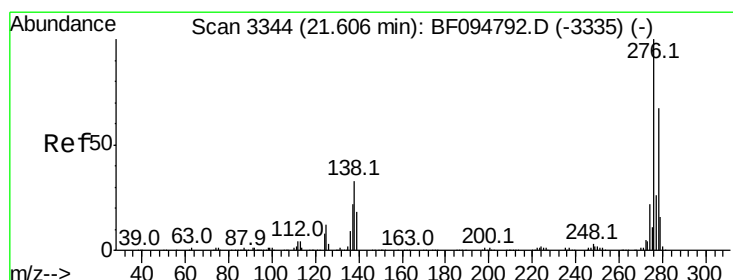
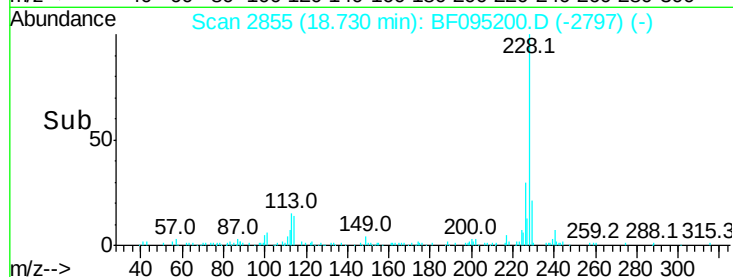
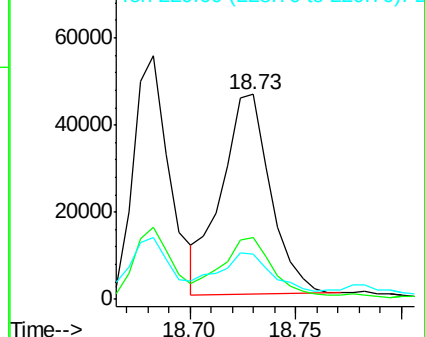
229 21.9 15.8 23.6



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: 4.67 ng

RT: 21.72 min Scan# 3363

Delta R.T. 0.11 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

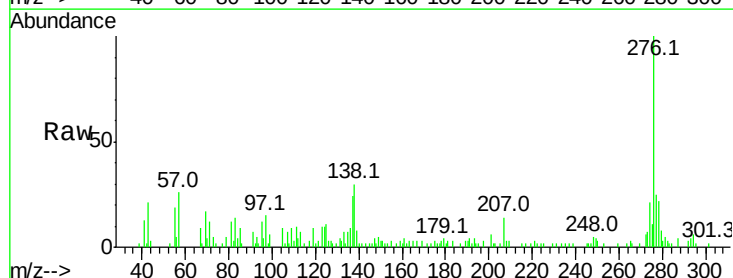
Tgt Ion:276 Resp: 41952

Ion Ratio Lower Upper

276 100

138 26.4 27.8 41.6#

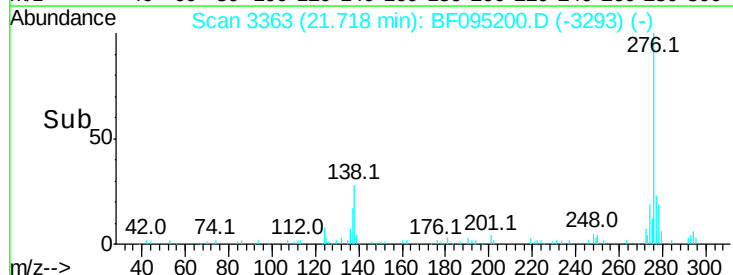
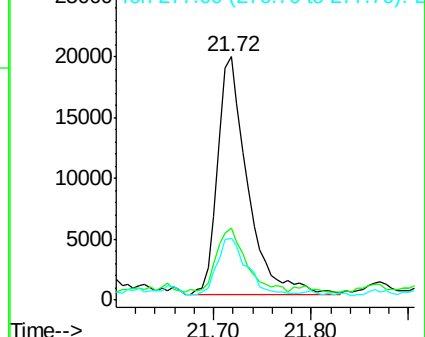
277 23.9 20.2 30.4

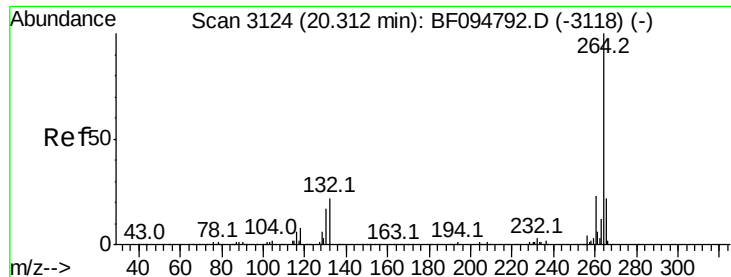


Abundance Ion 276.00 (275.70 to 276.70): E

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: 20.36 min Scan# 3133

Delta R.T. 0.05 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

Instrument :

BNA_F

ClientSampleId :

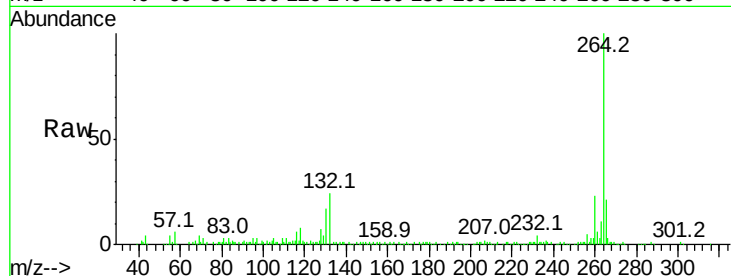
Tot Ion:264 Resp: 169987

Ion Ratio Lower Upper

264 100

260 22.7 19.5 29.3

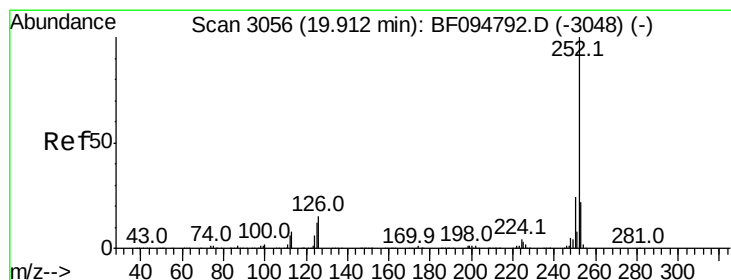
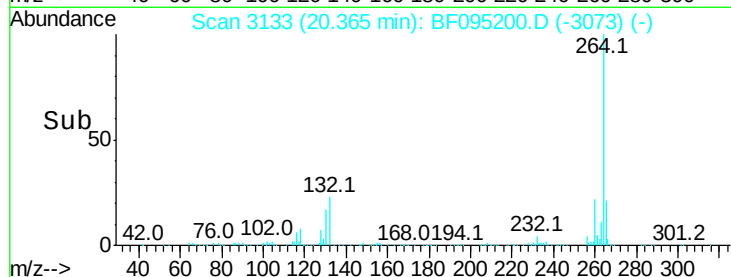
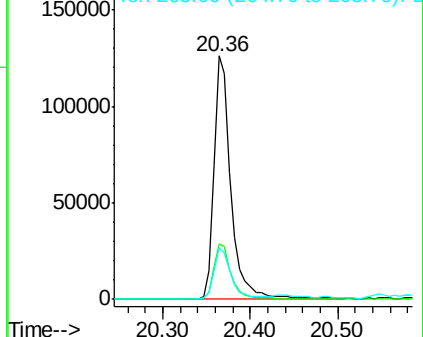
265 21.2 17.2 25.8



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: 12.38 ng

RT: 19.96 min Scan# 3065

Delta R.T. 0.05 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

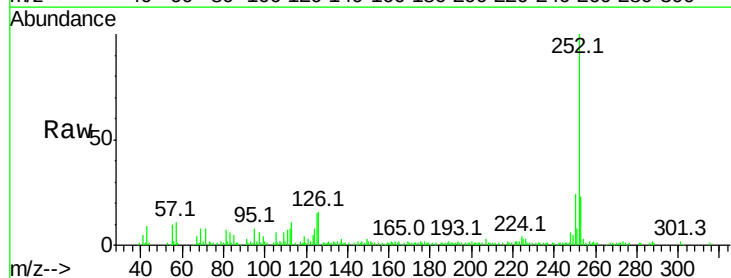
Tgt Ion:252 Resp: 130067

Ion Ratio Lower Upper

252 100

253 23.2 18.1 27.1

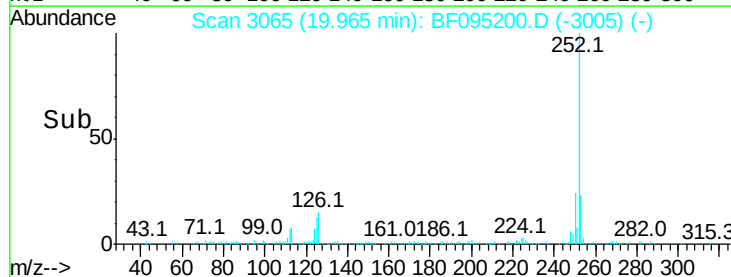
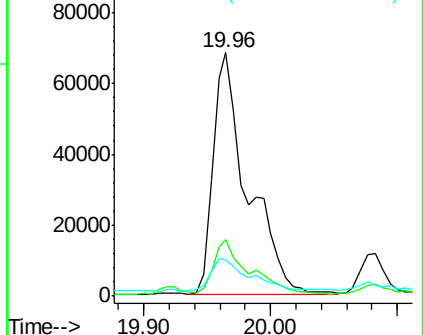
125 15.2 9.8 14.8#

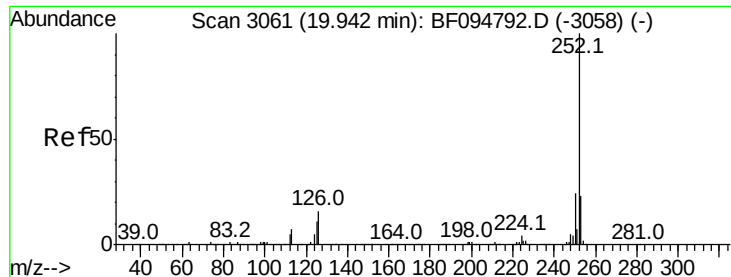


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

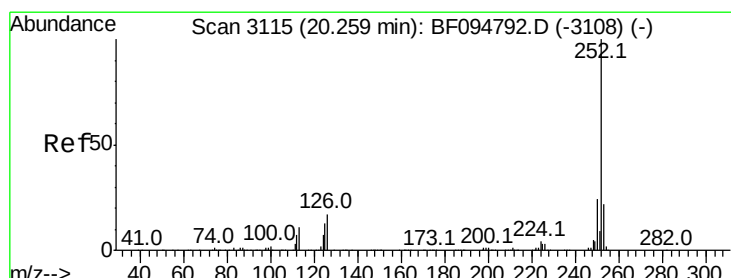
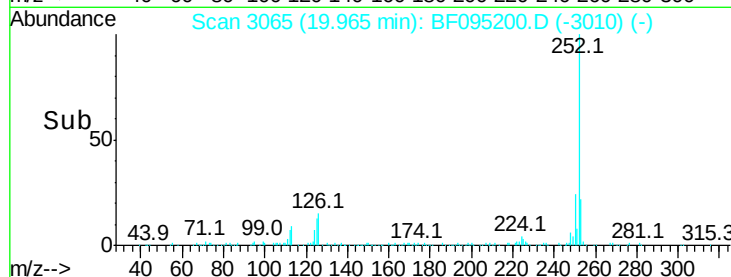
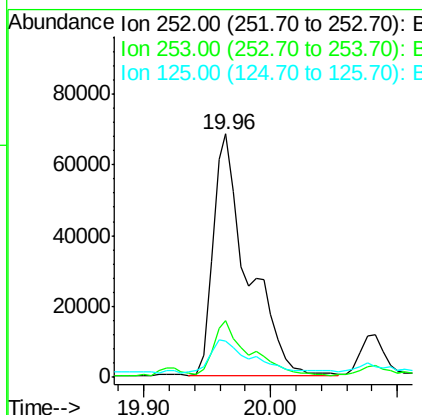
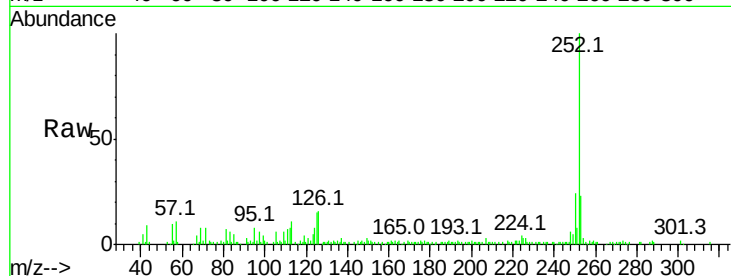




#88
Benzo(k)fluoranthene
Concen: 12.84 ng
RT: 19.96 min Scan# 3065
Delta R.T. 0.02 min
Lab File: BF095200.D
Acq: 17 May 2017 23:20

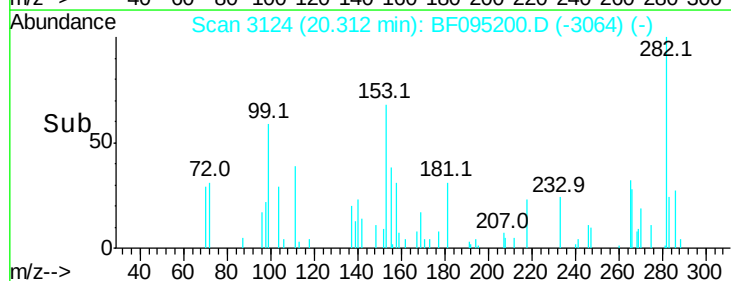
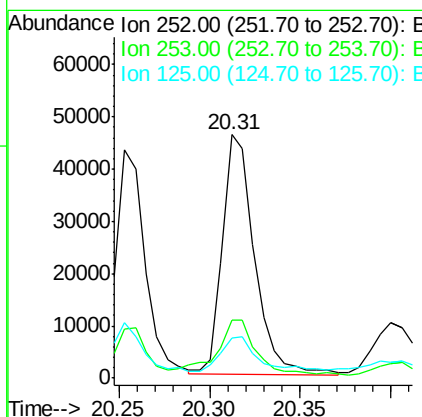
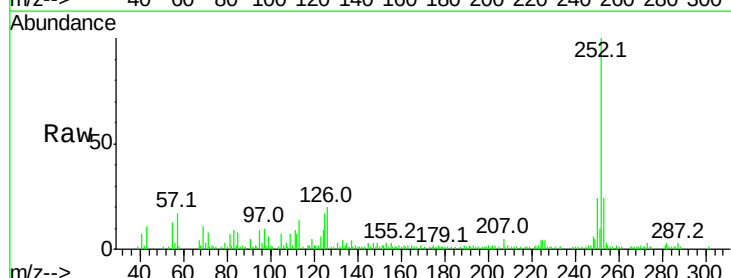
Instrument :
BNA_F
ClientSampleId :

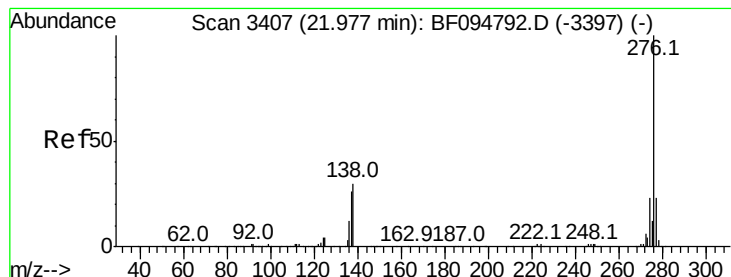
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.4	27.6
125	15.2	13.1	19.7



#89
Benzo(a)pyrene
Concen: 5.85 ng
RT: 20.31 min Scan# 3124
Delta R.T. 0.05 min
Lab File: BF095200.D
Acq: 17 May 2017 23:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.5	26.3
125	16.6	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 4.90 ng

RT: 22.10 min Scan# 3428

Delta R.T. 0.12 min

Lab File: BF095200.D

Acq: 17 May 2017 23:20

Instrument :

BNA_F

ClientSampleId :

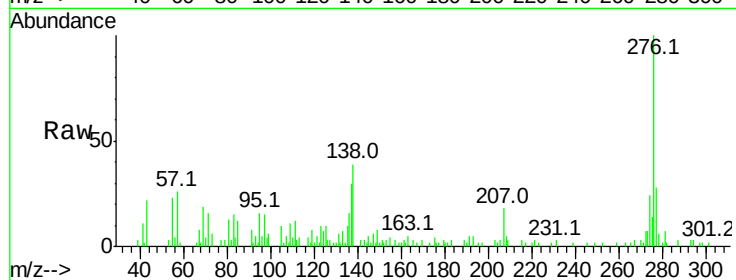
Tot Ion: 276 Resp: 38528

Ion Ratio Lower Upper

276 100

277 28.0 18.6 28.0#

138 38.7 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

