

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050317\
 Data File : BF094858.D
 Acq On : 4 May 2017 4:02
 Operator : SJ/MA
 Sample : I2936-05 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 04 05:07:03 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

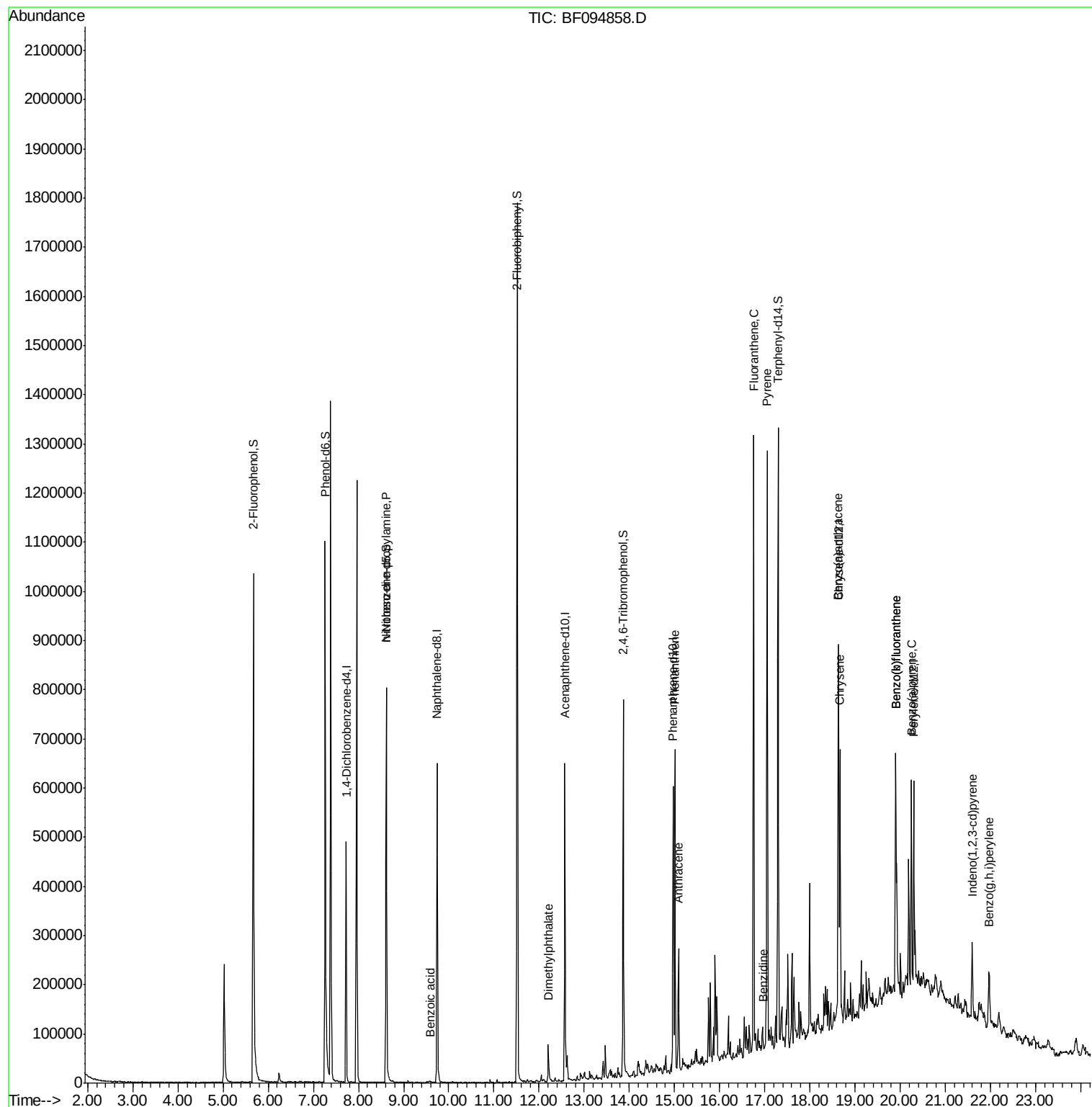
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.72	152	103292	20.00	ng	0.00
21) Naphthalene-d8	9.74	136	400035	20.00	ng	-0.01
38) Acenaphthene-d10	12.57	164	178692	20.00	ng	-0.01
63) Phenanthrene-d10	14.97	188	267052	20.00	ng	-0.01
75) Chrysene-d12	18.64	240	206799	20.00	ng	-0.01
86) Perylene-d12	20.31	264	171410	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.67	112	502001	81.03	ng	0.00
7) Phenol-d6	7.26	99	614855	82.71	ng	-0.02
23) Nitrobenzene-d5	8.62	82	357391	56.34	ng	-0.02
41) 2,4,6-Tribromophenol	13.87	330	113915	77.84	ng	-0.02
44) 2-Fluorobiphenyl	11.52	172	739221	59.54	ng	-0.01
78) Terphenyl-d14	17.29	244	470593	50.12	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.62	70	46503	9.25	ng	# 72
32) Benzoic acid	9.58	122	1471	5.43	ng	87
49) Dimethylphthalate	12.21	163	44126	3.01	ng	100
70) Phenanthrene	15.01	178	323316	21.07	ng	98
71) Anthracene	15.09	178	130913	8.35	ng	98
74) Fluoranthene	16.75	202	604490	38.41	ng	98
76) Benzidine	16.98	184	123	6.61	ng	# 62
77) Pyrene	17.05	202	533210	34.48	ng	96
80) Benzo(a)anthracene	18.63	228	271588	22.57	ng	98
82) Chrysene	18.67	228	226387	19.45	ng	97
85) Indeno(1,2,3-cd)pyrene	21.59	276	84396	8.93	ng	# 90
87) Benzo(b)fluoranthene	19.90	252	347950	32.85	ng	# 97
88) Benzo(k)fluoranthene	19.90	252	347950	34.06	ng	98
89) Benzo(a)pyrene	20.25	252	176892	18.10	ng	97
91) Benzo(a,h,i)perylene	21.97	276	78556	9.92	ng	95

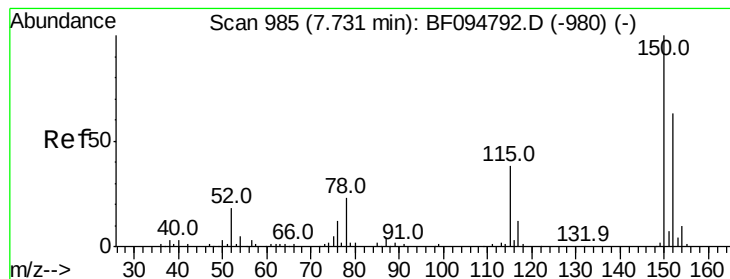
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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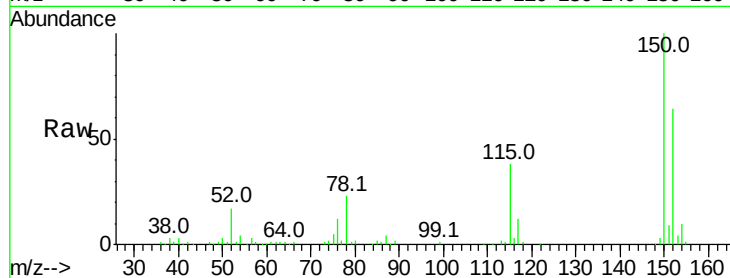


#1

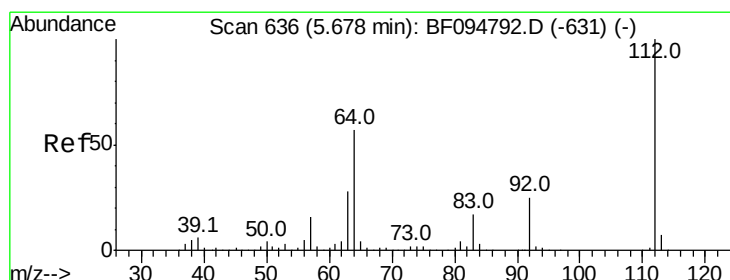
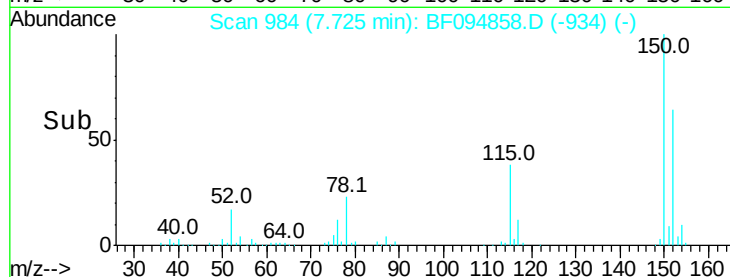
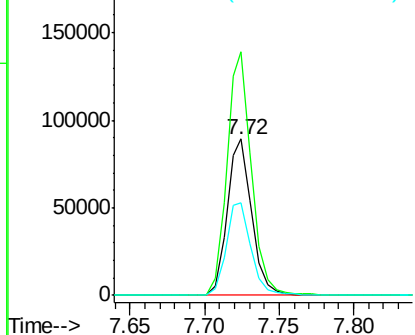
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.72 min Scan# 984
Delta R.T. -0.01 min
Lab File: BF094858.D
Acq: 4 May 2017 4:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 103292
Ion Ratio Lower Upper
152 100
150 156.0 126.2 189.2
115 59.4 52.2 78.2



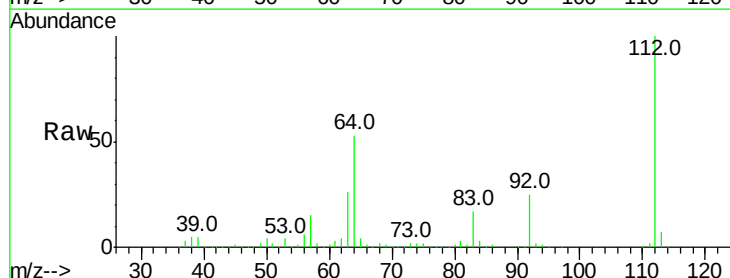
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



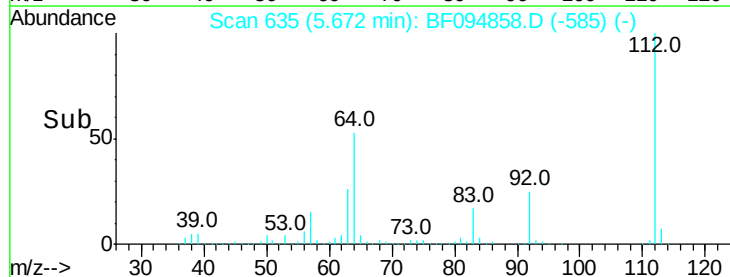
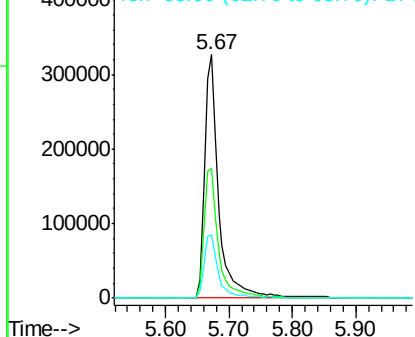
#5

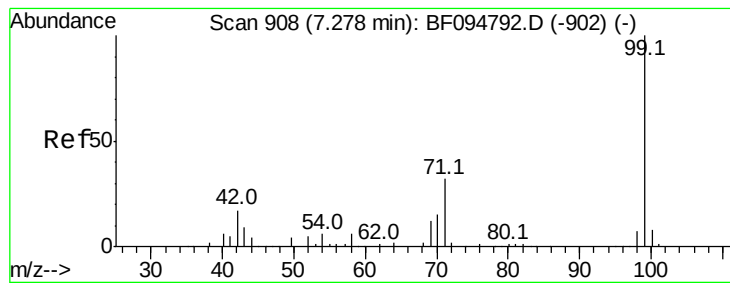
2-Fluorophenol
Concen: 81.03 ng
RT: 5.67 min Scan# 635
Delta R.T. -0.01 min
Lab File: BF094858.D
Acq: 4 May 2017 4:02

Tgt Ion:112 Resp: 502001
Ion Ratio Lower Upper
112 100
64 53.2 46.0 69.0
63 26.2 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: 82.71 ng

RT: 7.26 min Scan# 905

Delta R.T. -0.02 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

Instrument :

BNA_F

ClientSampleId :

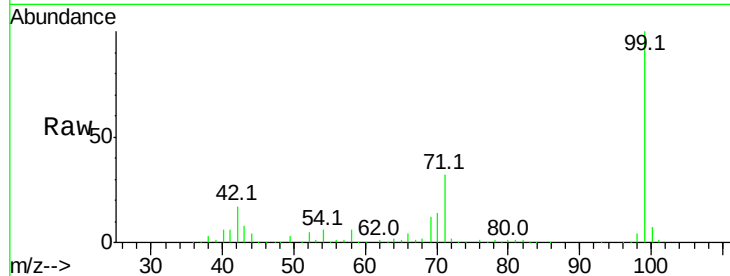
Tot Ion: 99 Resp: 614855

Ion Ratio Lower Upper

99 100

42 17.0 13.5 20.3

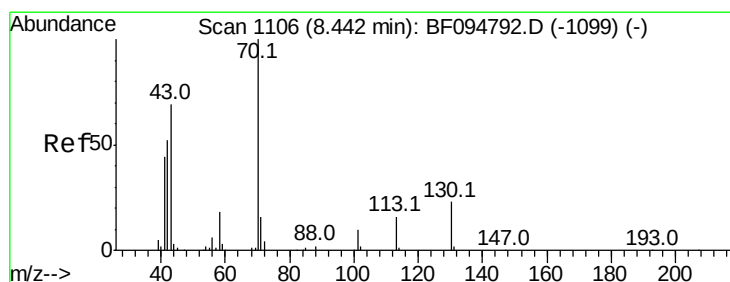
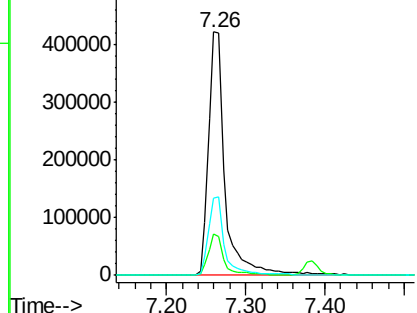
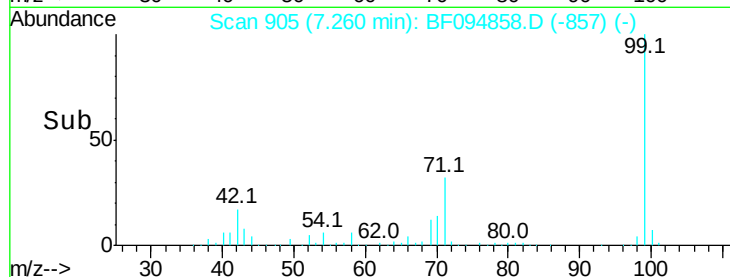
71 32.0 24.5 36.7



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: 9.25 ng

RT: 8.62 min Scan# 1136

Delta R.T. 0.18 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

Tgt Ion: 70 Resp: 46503

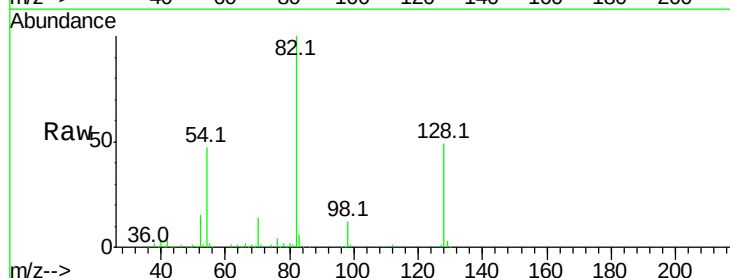
Ion Ratio Lower Upper

70 100

42 40.6 47.2 70.8#

101 0.0 7.2 10.8#

130 2.0 15.9 23.9#

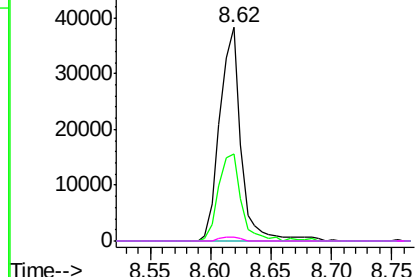
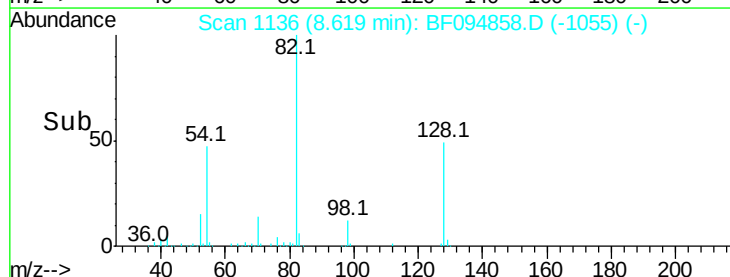


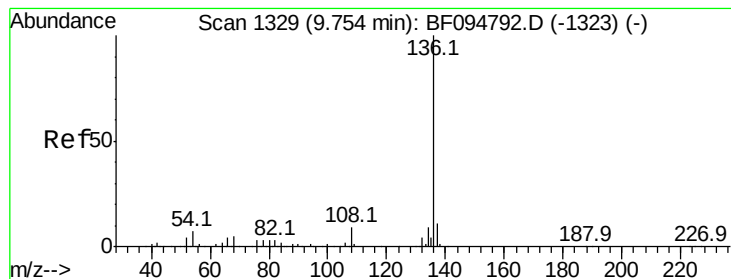
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 9.74 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 400035

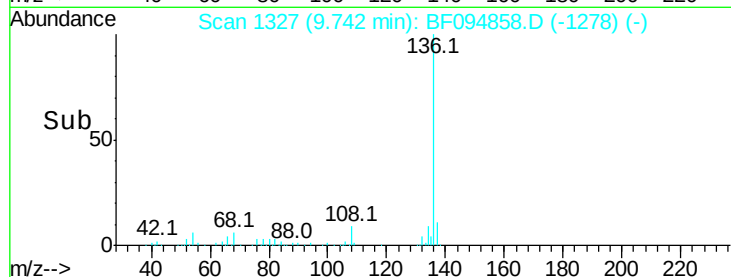
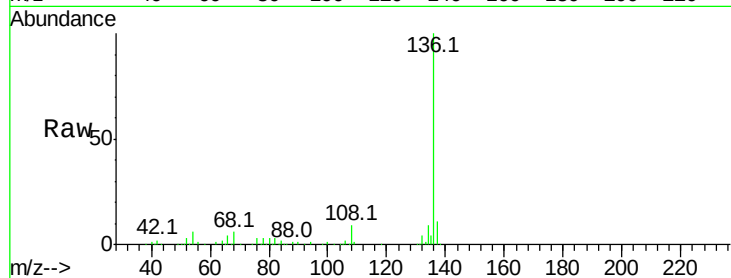
Ion Ratio Lower Upper

136 100

137 11.3 8.5 12.7

54 6.3 4.9 7.3

68 5.6 4.1 6.1

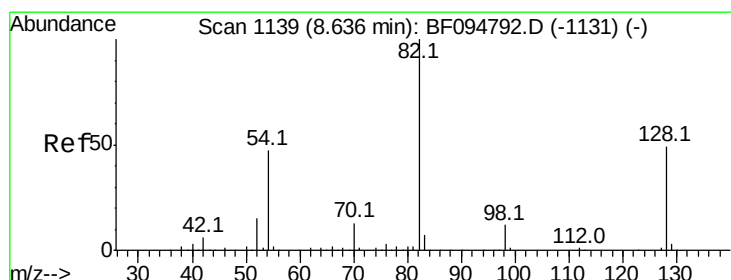
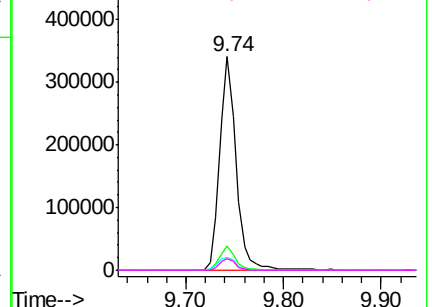


Abundance Ion 136.00 (135.70 to 136.70): E

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: 56.34 ng

RT: 8.62 min Scan# 1136

Delta R.T. -0.02 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

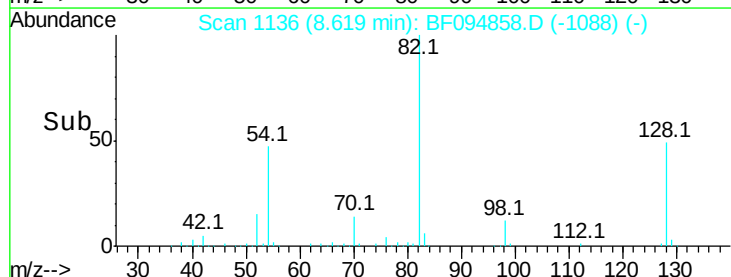
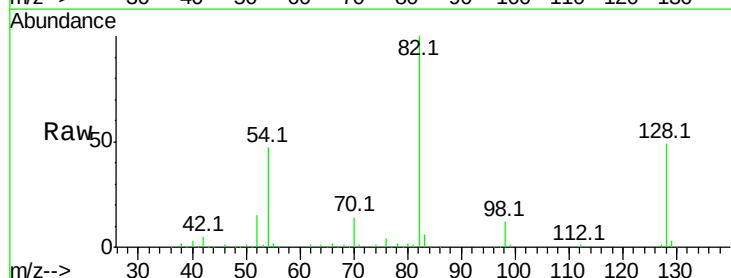
Tgt Ion: 82 Resp: 357391

Ion Ratio Lower Upper

82 100

128 49.3 34.0 51.0

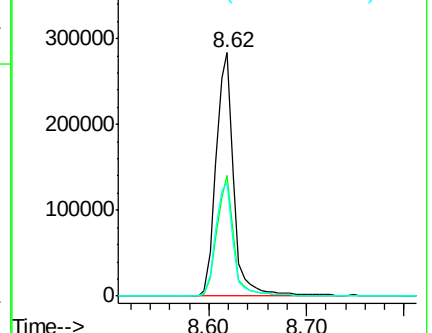
54 46.7 42.2 63.2

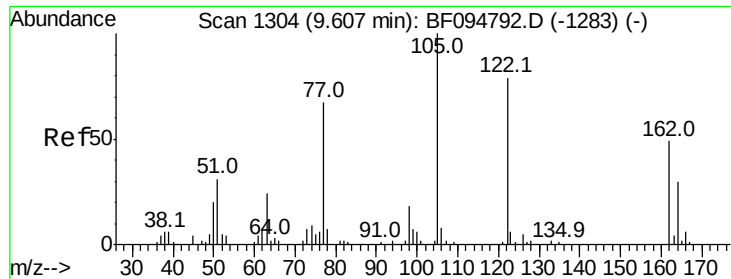


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#32

Benzoic acid

Concen: 5.43 ng

RT: 9.58 min Scan# 1300

Delta R.T. -0.02 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

Instrument :

BNA_F

ClientSampled :

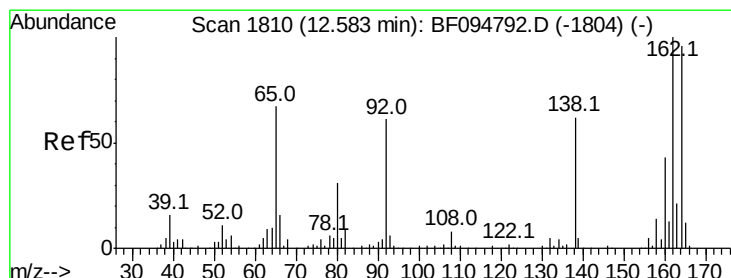
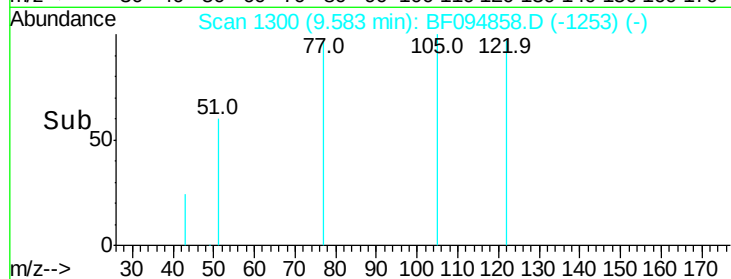
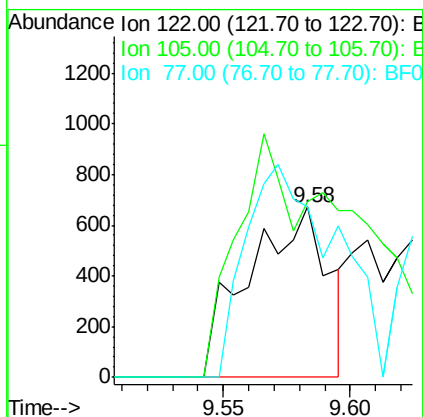
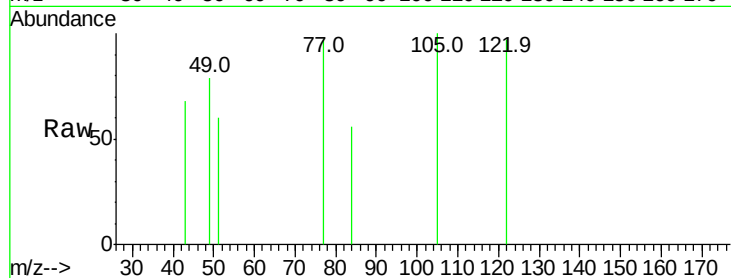
Tot Ion:122 Resp: 1471

Ion Ratio Lower Upper

122 100

105 103.4 103.3 143.3

77 100.4 73.7 113.7



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.57 min Scan# 1808

Delta R.T. -0.01 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

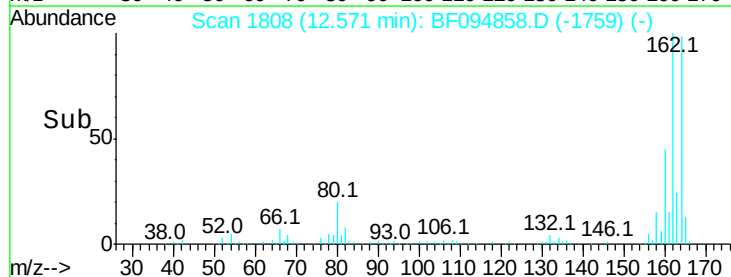
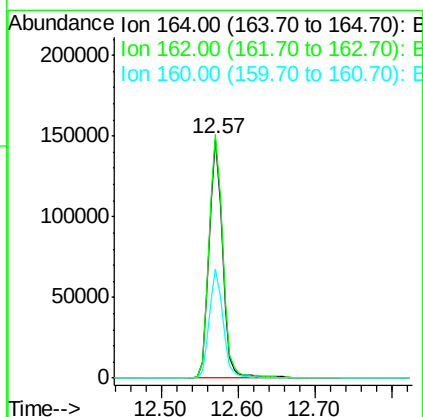
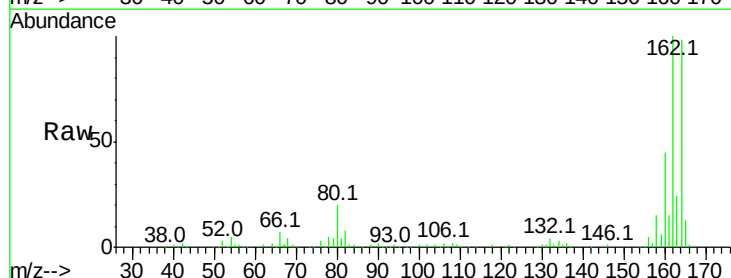
Tgt Ion:164 Resp: 178692

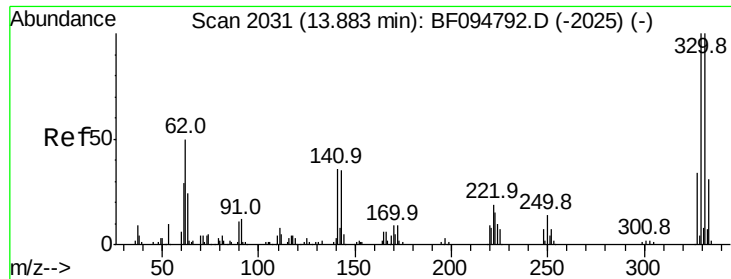
Ion Ratio Lower Upper

164 100

162 101.9 82.6 123.8

160 46.0 36.2 54.2

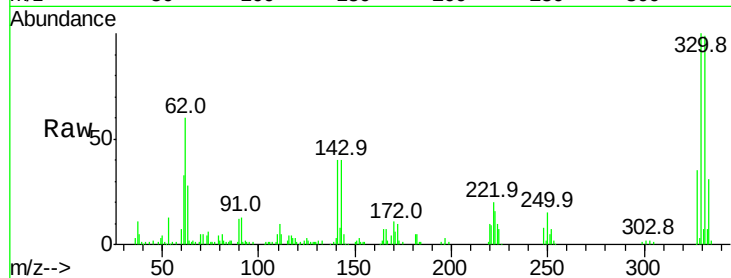




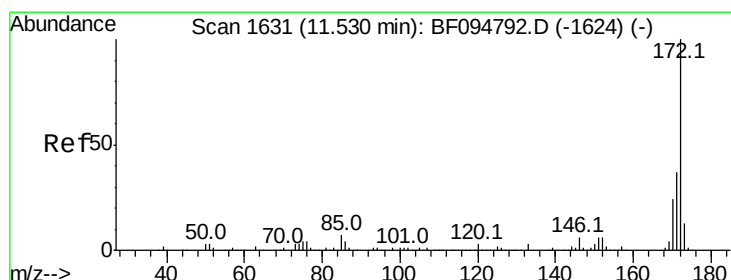
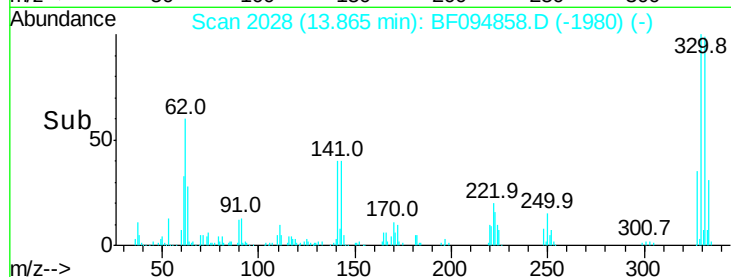
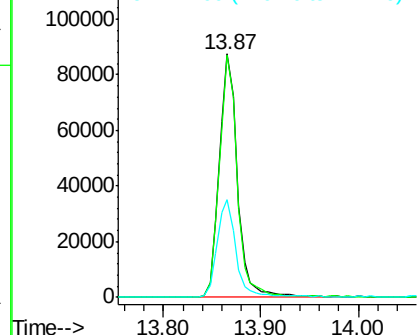
#41
 2,4,6-Tribromophenol
 Concen: 77.84 ng
 RT: 13.87 min Scan# 2028
 Delta R.T. -0.02 min
 Lab File: BF094858.D
 Acq: 4 May 2017 4:02

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.9	76.6	115.0
141	42.2	31.4	47.2

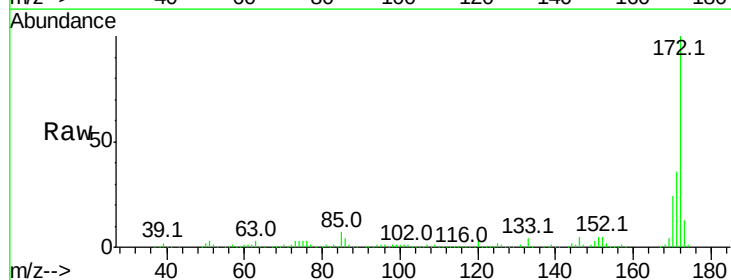


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

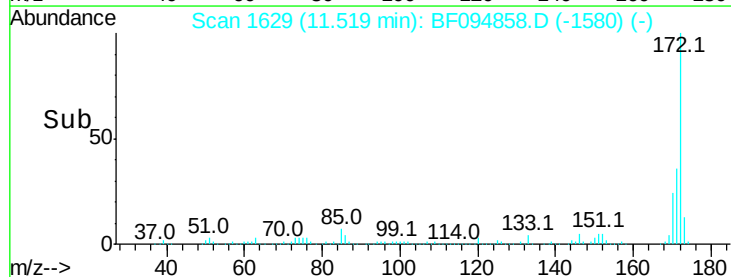
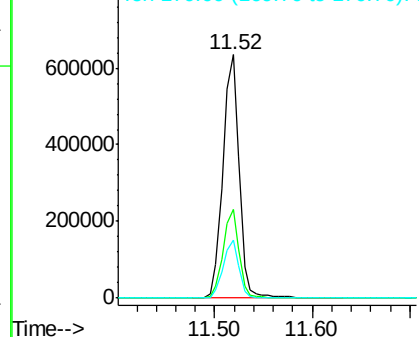


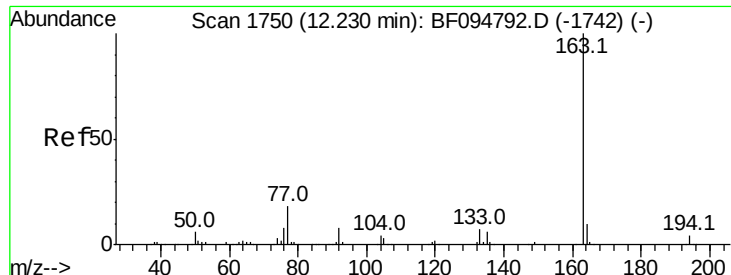
#44
 2-Fluorobiphenyl
 Concen: 59.54 ng
 RT: 11.52 min Scan# 1629
 Delta R.T. -0.01 min
 Lab File: BF094858.D
 Acq: 4 May 2017 4:02

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.6	44.4
170	23.7	19.8	29.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 3.01 ng

RT: 12.21 min Scan# 1746

Delta R.T. -0.02 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

Instrument :

BNA_F

ClientSampled :

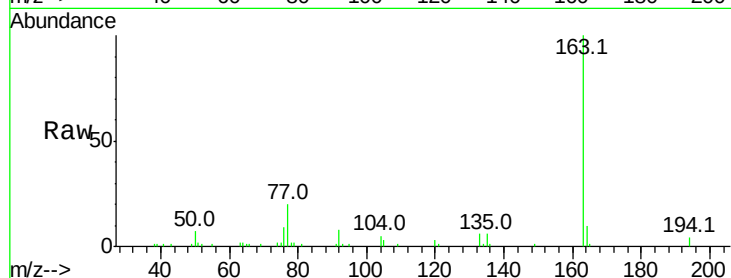
Tot Ion:163 Resp: 44126

Ion Ratio Lower Upper

163 100

194 3.7 2.6 4.0

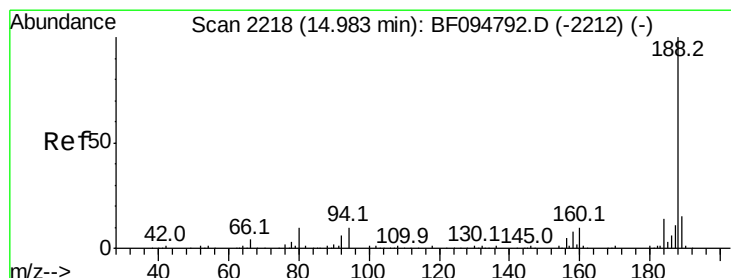
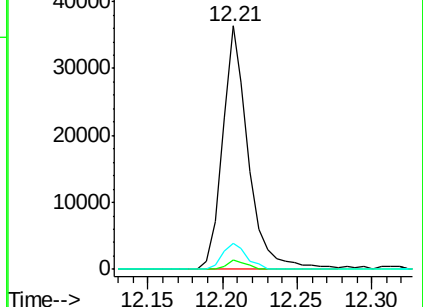
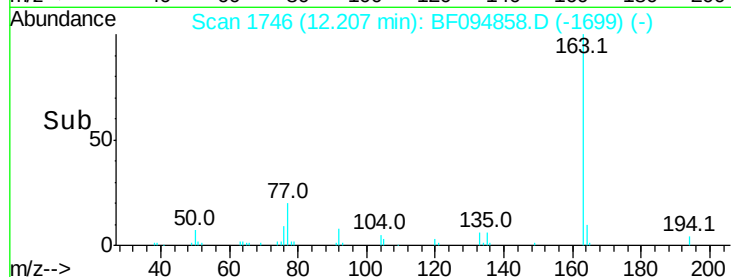
164 10.5 8.4 12.6



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.97 min Scan# 2216

Delta R.T. -0.01 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

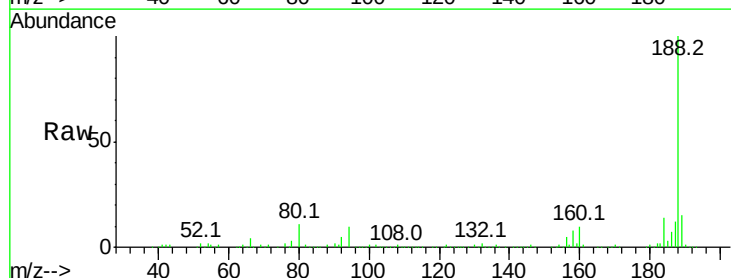
Tgt Ion:188 Resp: 267052

Ion Ratio Lower Upper

188 100

94 10.0 9.4 14.2

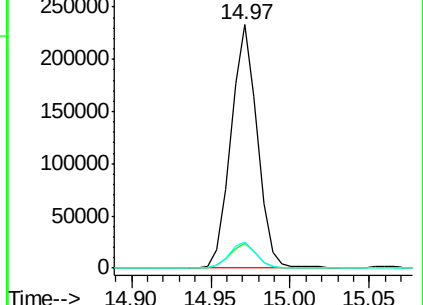
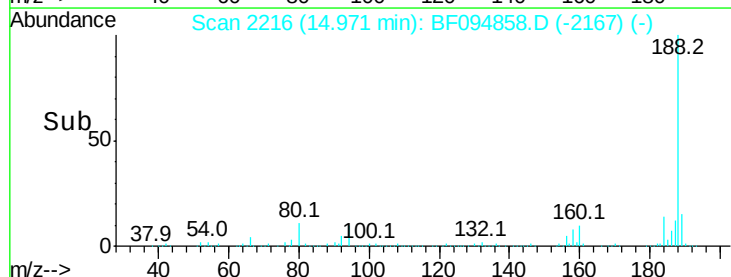
80 10.5 10.2 15.2

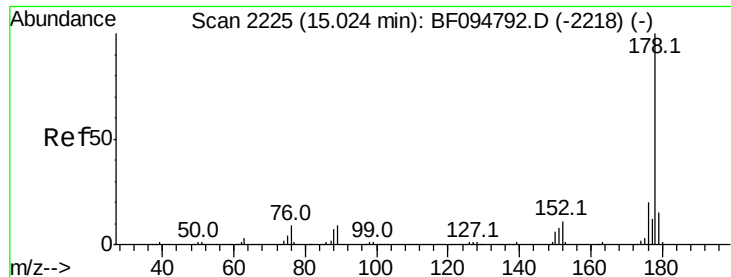


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

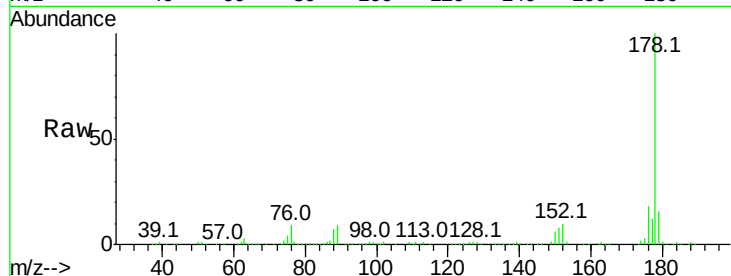




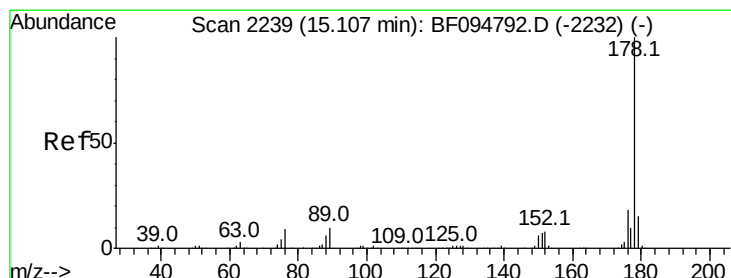
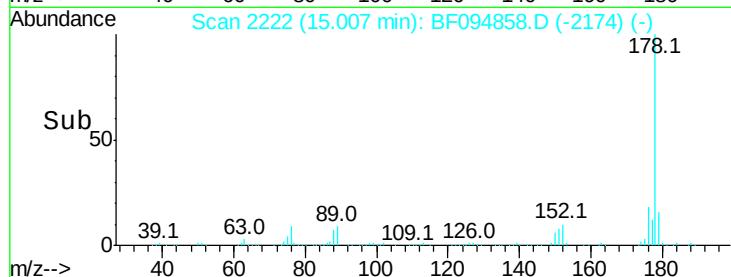
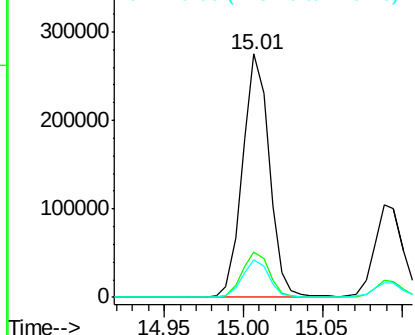
#70
Phenanthrene
Concen: 21.07 ng
RT: 15.01 min Scan# 2222
Delta R.T. -0.02 min
Lab File: BF094858.D
Acq: 4 May 2017 4:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 323316
Ion Ratio Lower Upper
178 100
176 18.5 16.2 24.4
179 15.6 12.6 19.0

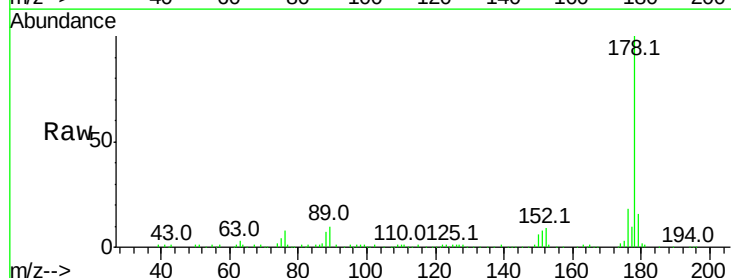


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

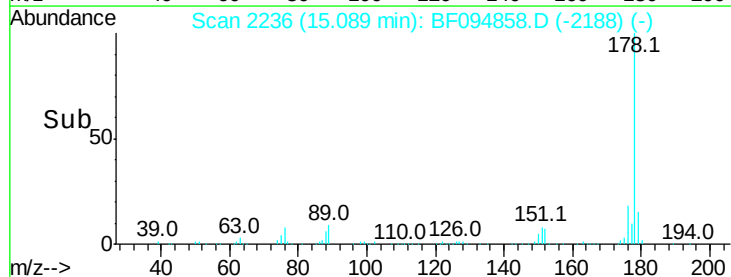
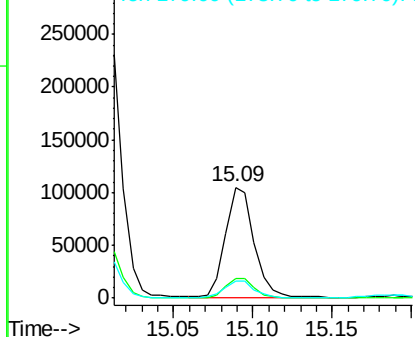


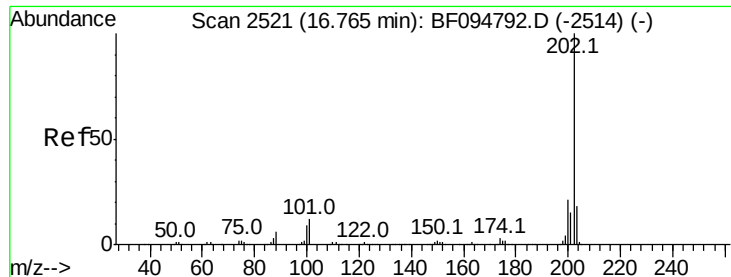
#71
Anthracene
Concen: 8.35 ng
RT: 15.09 min Scan# 2236
Delta R.T. -0.02 min
Lab File: BF094858.D
Acq: 4 May 2017 4:02

Tgt Ion:178 Resp: 130913
Ion Ratio Lower Upper
178 100
176 17.9 15.8 23.8
179 15.8 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: 38.41 ng

RT: 16.75 min Scan# 2519

Delta R.T. -0.01 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

Instrument :

BNA_F

ClientSampleId :

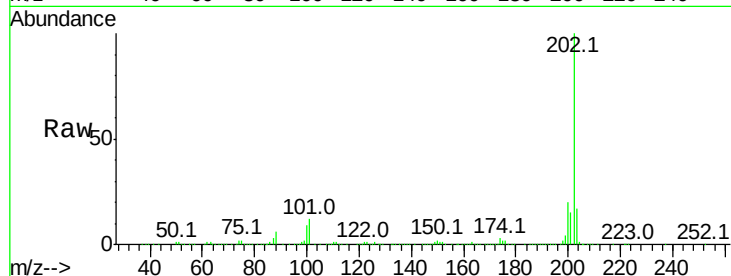
Tot Ion:202 Resp: 604490

Ion Ratio Lower Upper

202 100

101 12.5 0.0 33.2

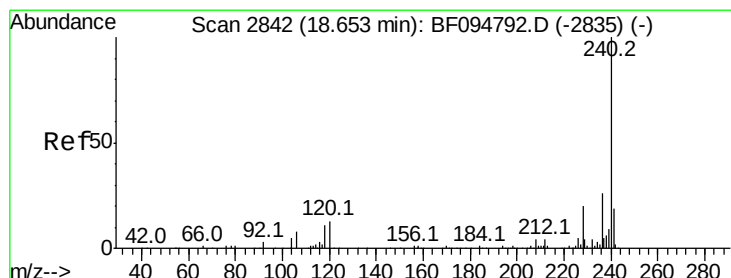
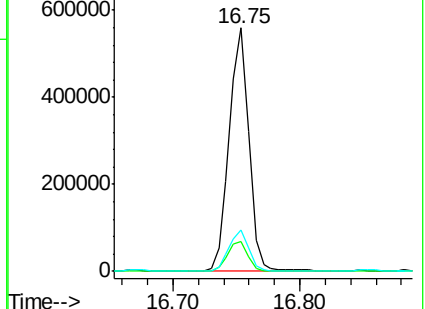
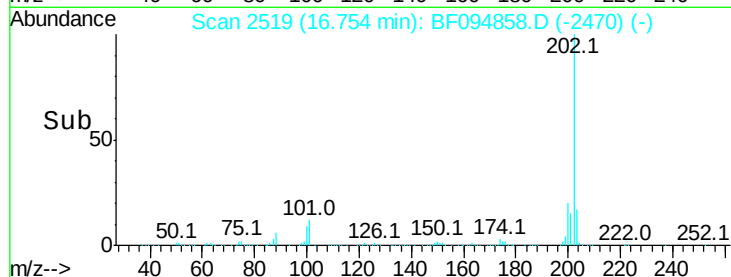
203 17.3 0.0 38.1



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: 18.64 min Scan# 2840

Delta R.T. -0.01 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

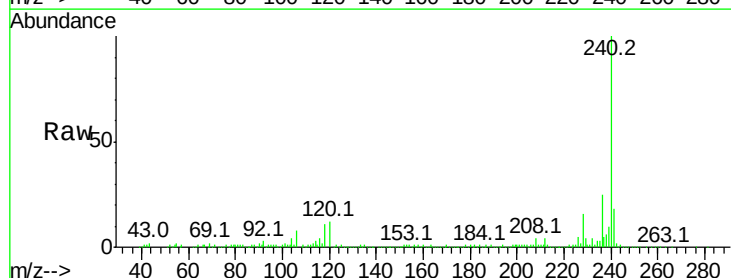
Tgt Ion:240 Resp: 206799

Ion Ratio Lower Upper

240 100

120 12.3 5.8 8.8#

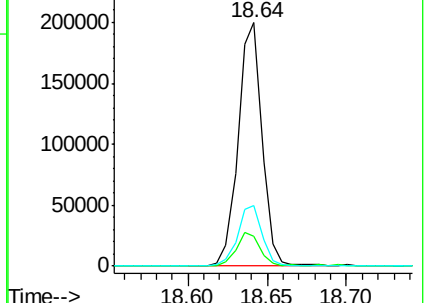
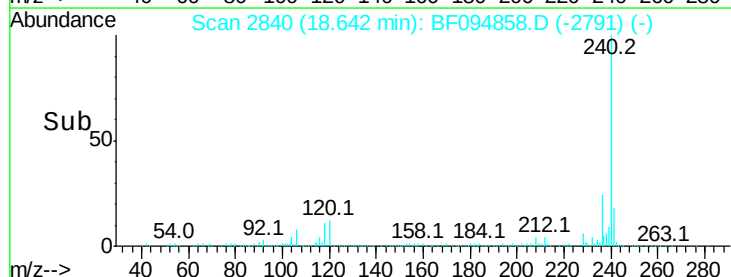
236 24.6 20.5 30.7

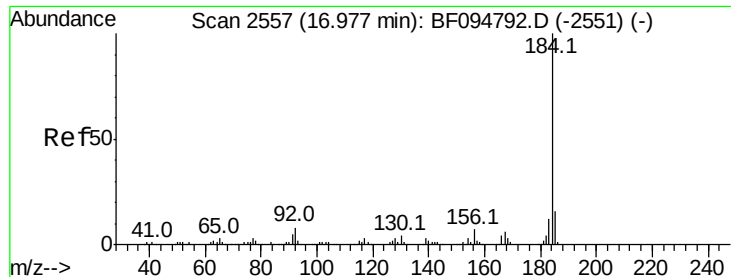


Abundance Ion 240.00 (239.70 to 240.70): E

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: 16.98 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

Instrument :

BNA_F

ClientSampleId :

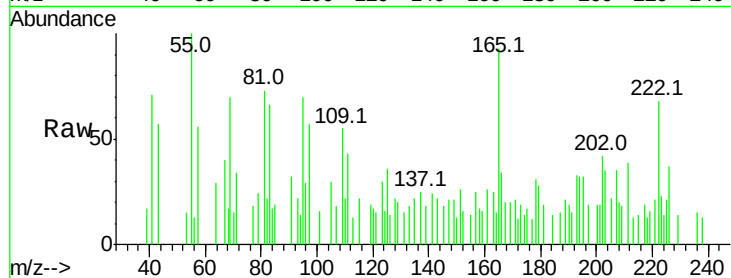
Tot Ion:184 Resp: 123

Ion Ratio Lower Upper

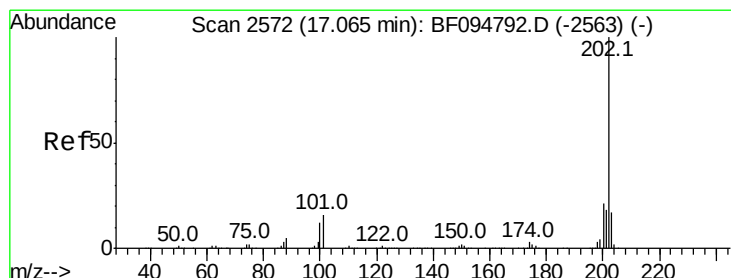
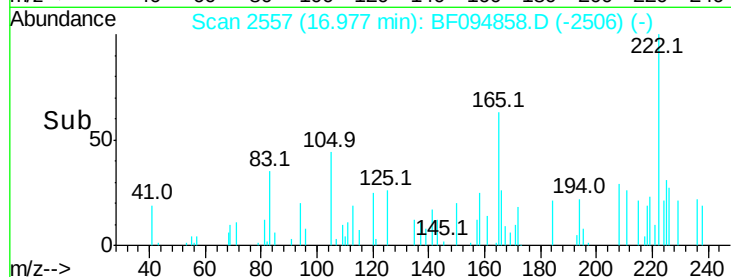
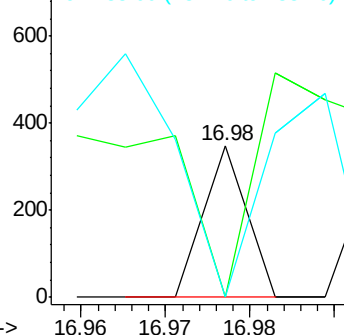
184 100

185 0.0 15.5 23.3#

183 0.0 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



#77

Pyrene

Concen: 34.48 ng

RT: 17.05 min Scan# 2570

Delta R.T. -0.01 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

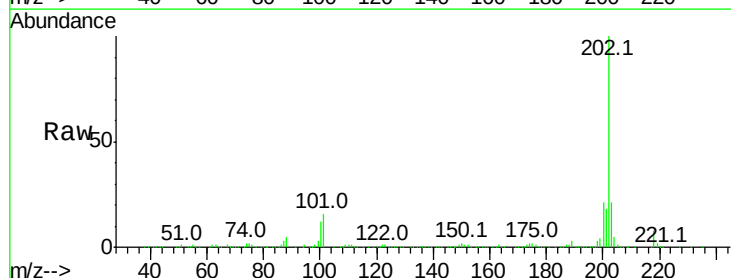
Tgt Ion:202 Resp: 533210

Ion Ratio Lower Upper

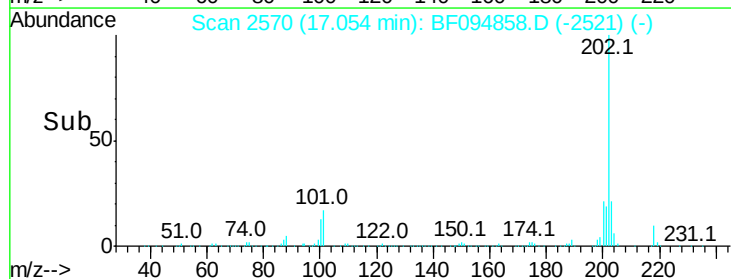
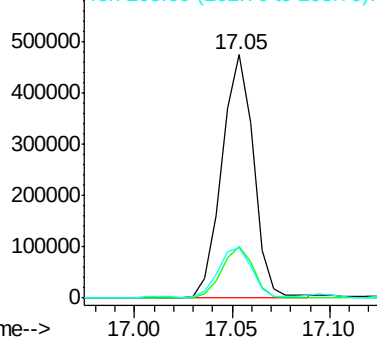
202 100

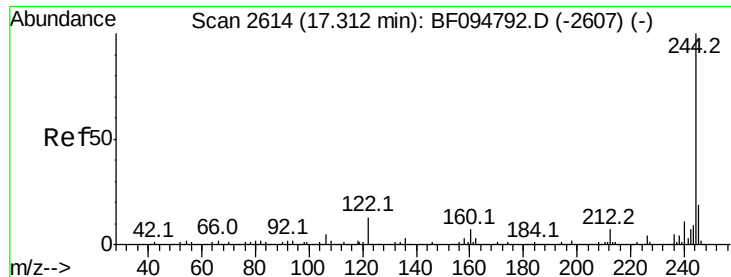
200 21.2 17.6 26.4

203 20.8 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

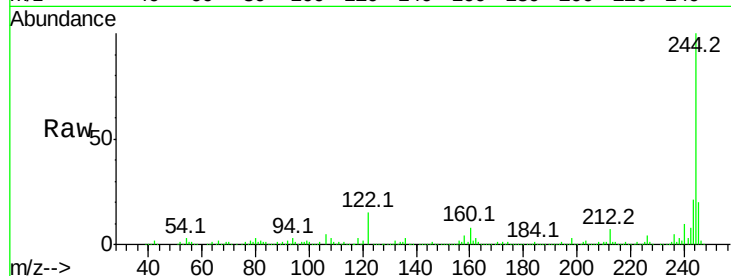




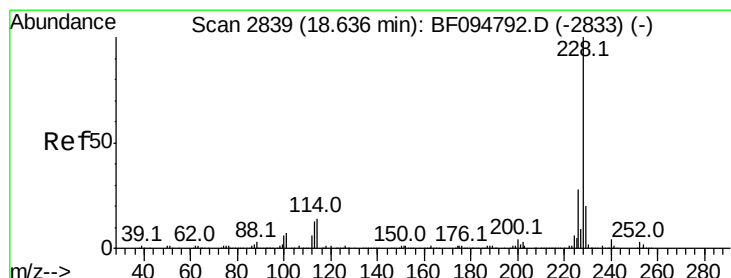
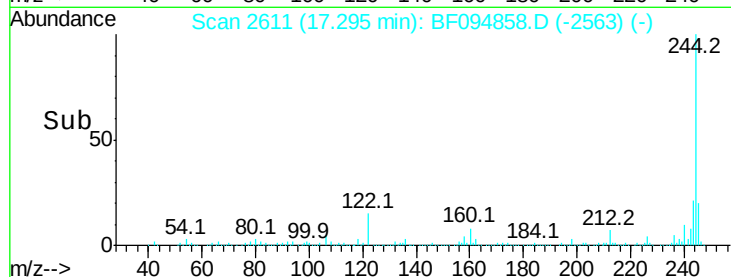
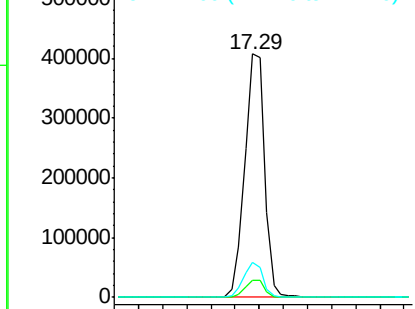
#78
 Terphenyl-d14
 Concen: 50.12 ng
 RT: 17.29 min Scan# 2611
 Delta R.T. -0.02 min
 Lab File: BF094858.D
 Acq: 4 May 2017 4:02

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:244 Resp: 470593
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 14.6 10.3 15.5

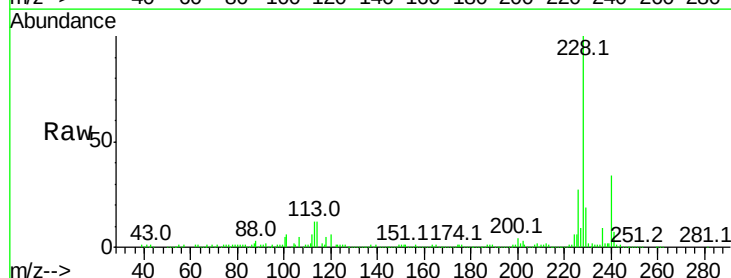


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

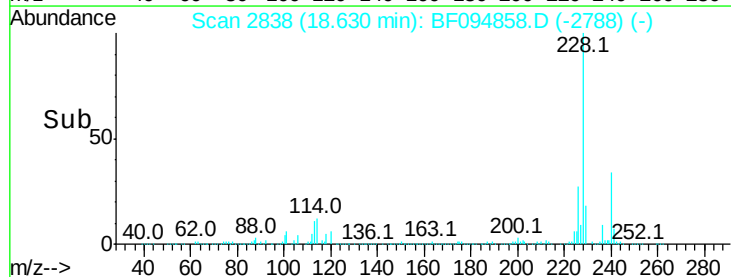
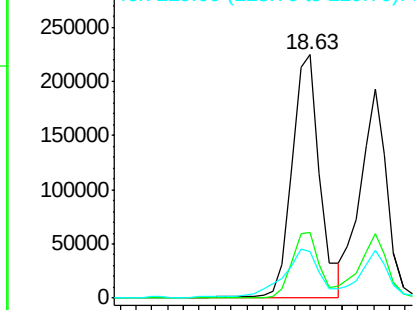


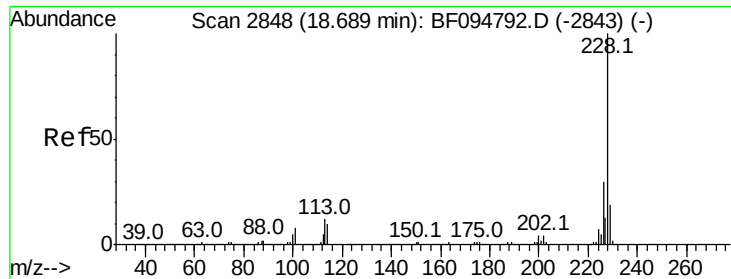
#80
 Benzo(a)anthracene
 Concen: 22.57 ng
 RT: 18.63 min Scan# 2838
 Delta R.T. -0.01 min
 Lab File: BF094858.D
 Acq: 4 May 2017 4:02

Tgt Ion:228 Resp: 271588
 Ion Ratio Lower Upper
 228 100
 226 27.2 22.6 33.8
 229 19.4 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: 19.45 ng

RT: 18.67 min Scan# 2845

Delta R.T. -0.02 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

Instrument :

BNA_F

ClientSampleId :

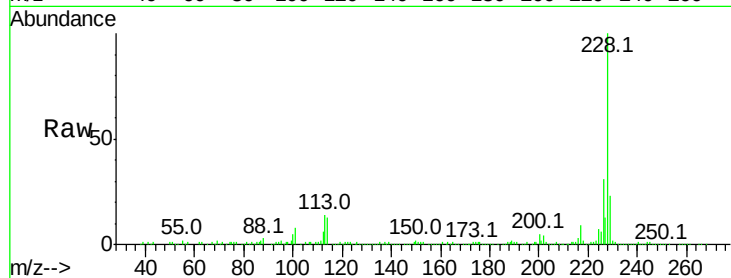
Tot Ion:228 Resp: 226387

Ion Ratio Lower Upper

228 100

226 31.0 24.9 37.3

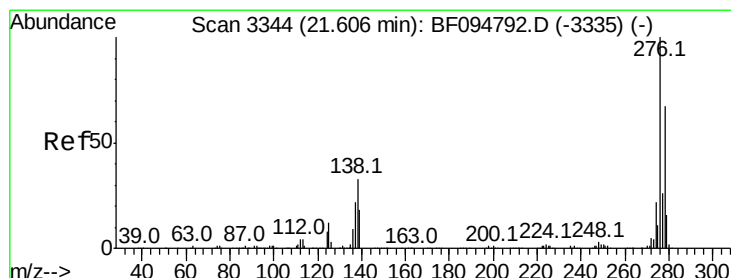
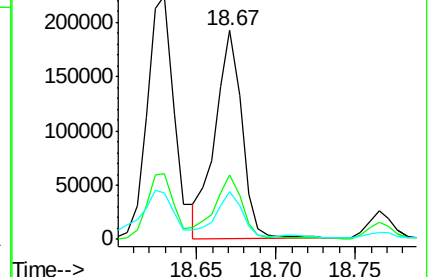
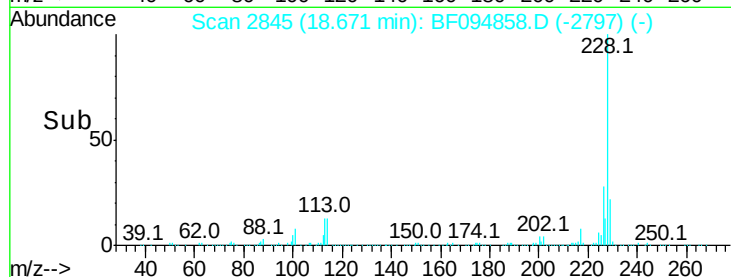
229 22.7 15.8 23.6



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: 8.93 ng

RT: 21.59 min Scan# 3342

Delta R.T. -0.01 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

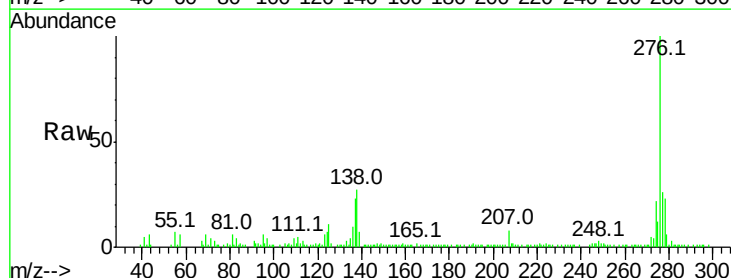
Tgt Ion:276 Resp: 84396

Ion Ratio Lower Upper

276 100

138 26.8 27.8 41.6#

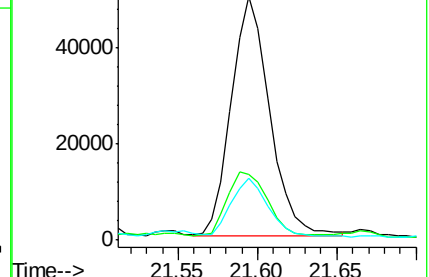
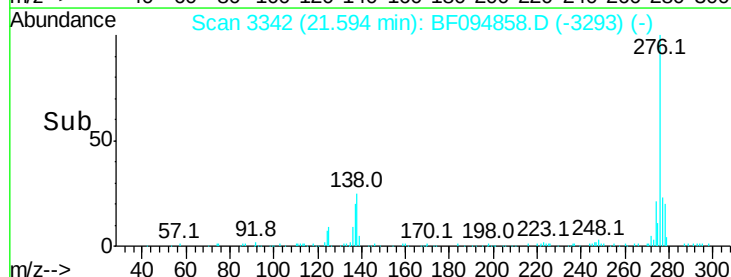
277 22.8 20.2 30.4

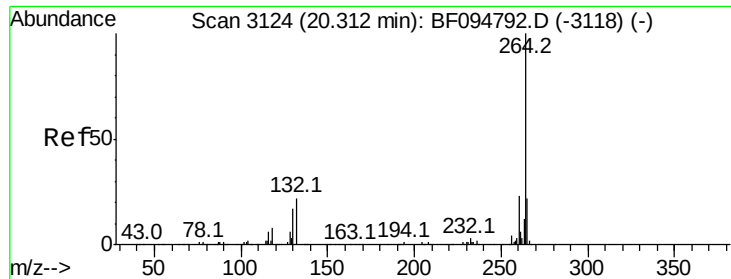


Abundance Ion 276.00 (275.70 to 276.70): E

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: 20.31 min Scan# 3123

Delta R.T. -0.01 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

Instrument :

BNA_F

ClientSampleId :

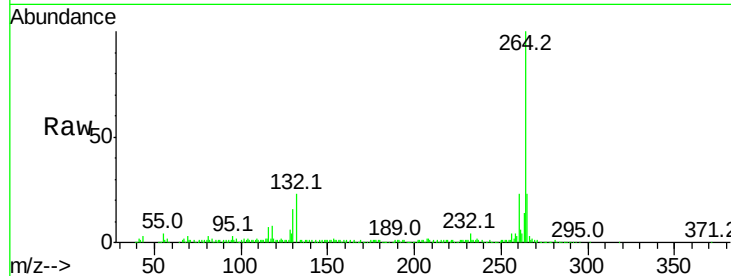
Tot Ion:264 Resp: 171410

Ion Ratio Lower Upper

264 100

260 23.4 19.5 29.3

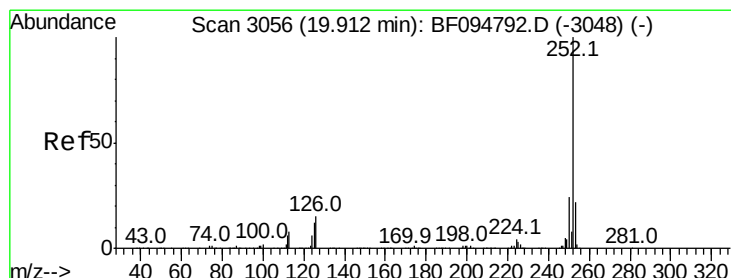
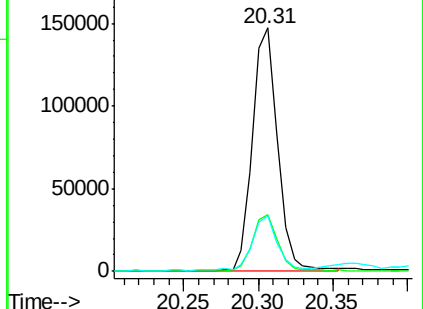
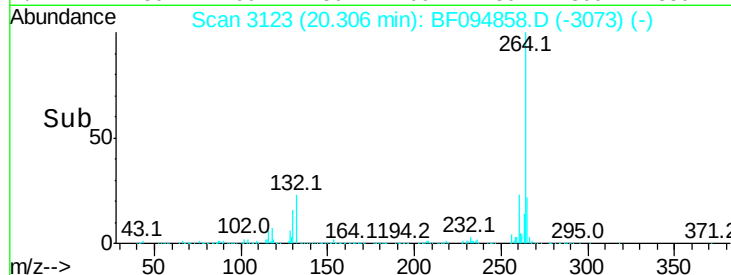
265 22.6 17.2 25.8



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: 32.85 ng

RT: 19.90 min Scan# 3054

Delta R.T. -0.01 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

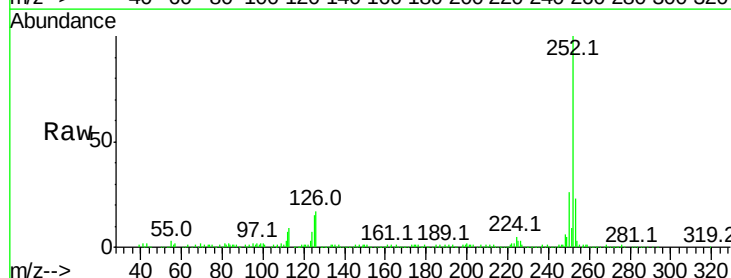
Tgt Ion:252 Resp: 347950

Ion Ratio Lower Upper

252 100

253 22.8 18.1 27.1

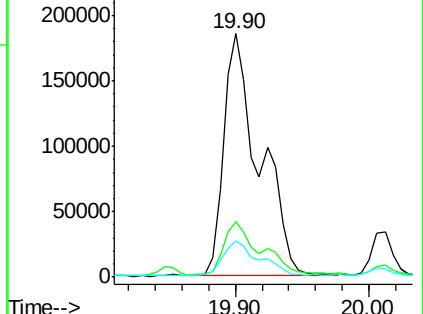
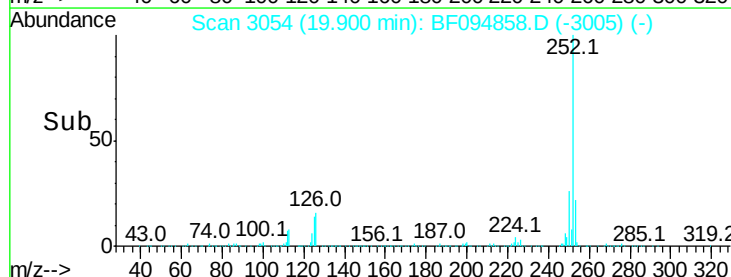
125 15.0 9.8 14.8#

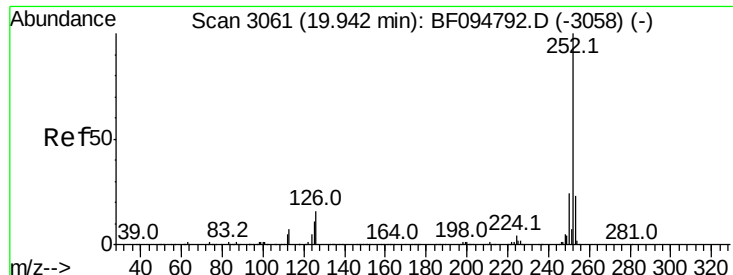


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

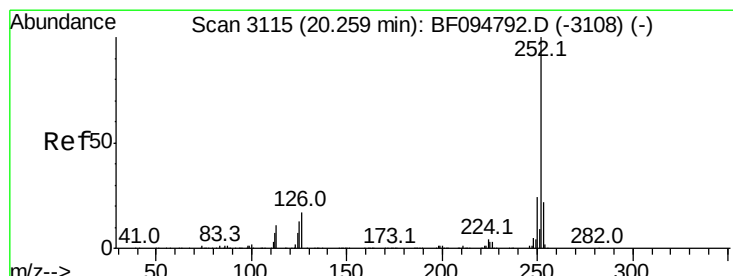
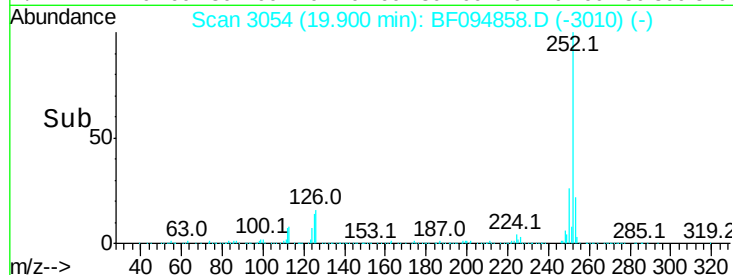
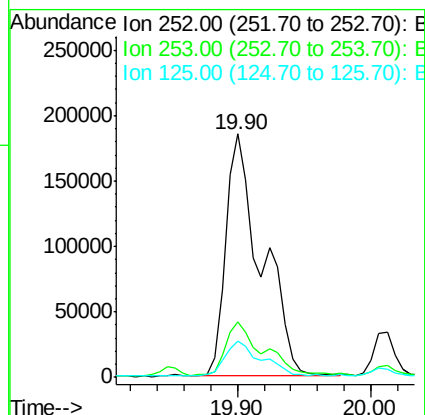
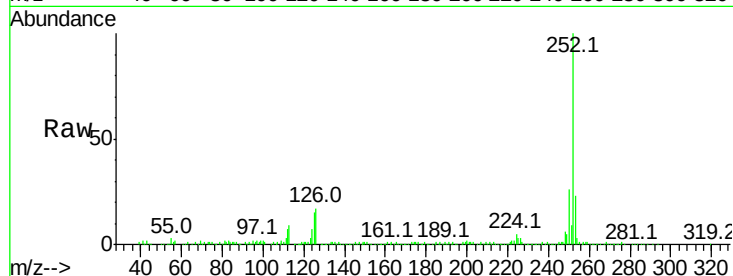




#88
Benzo(k)fluoranthene
Concen: 34.06 ng
RT: 19.90 min Scan# 3054
Delta R.T. -0.04 min
Lab File: BF094858.D
Acq: 4 May 2017 4:02

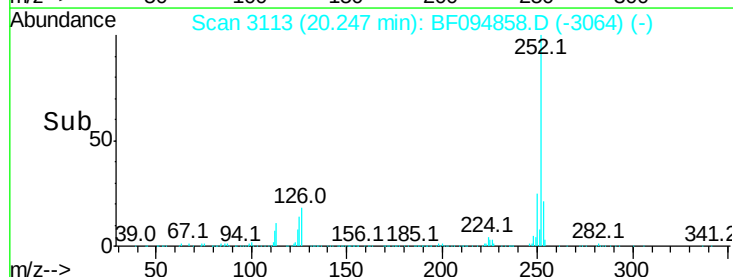
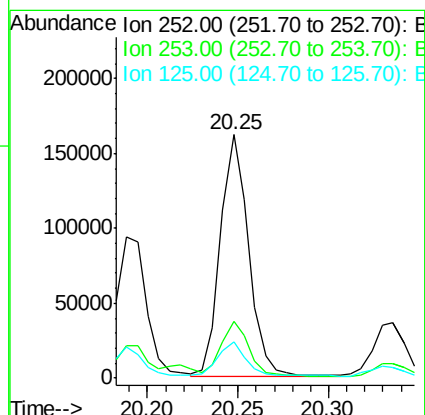
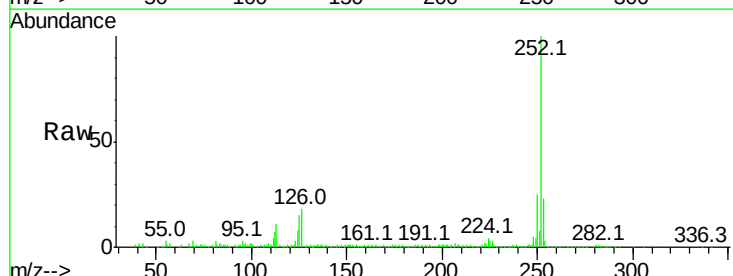
Instrument :
BNA_F
ClientSampleId :

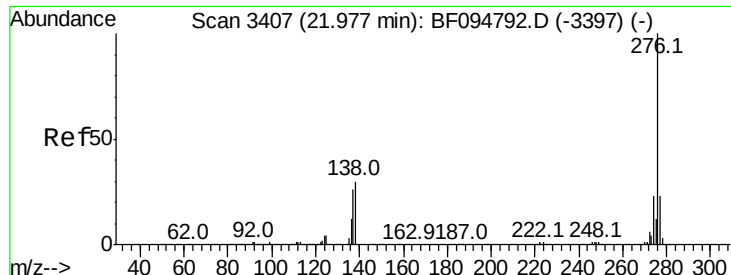
Tot Ion:252 Resp: 347950
Ion Ratio Lower Upper
252 100
253 22.8 18.4 27.6
125 15.0 13.1 19.7



#89
Benzo(a)pyrene
Concen: 18.10 ng
RT: 20.25 min Scan# 3113
Delta R.T. -0.01 min
Lab File: BF094858.D
Acq: 4 May 2017 4:02

Tgt Ion:252 Resp: 176892
Ion Ratio Lower Upper
252 100
253 23.1 17.5 26.3
125 14.9 11.0 16.4





#91

Benzo(a,h,i)perylene

Concen: 9.92 ng

RT: 21.97 min Scan# 3406

Delta R.T. -0.01 min

Lab File: BF094858.D

Acq: 4 May 2017 4:02

Instrument :

BNA_F

ClientSampleId :

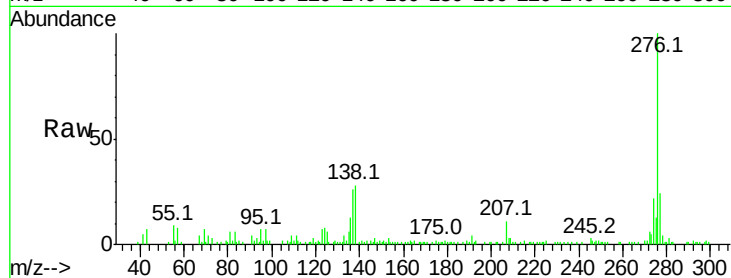
Tot Ion: 276 Resp: 78556

Ion Ratio Lower Upper

276 100

277 24.4 18.6 28.0

138 27.8 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

