

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
 Data File : BF095439.D
 Acq On : 25 May 2017 23:36
 Operator : SJ/MA
 Sample : I3200-04 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 26 01:16:13 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 18 17:07:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	98945	20.00	ng	-0.02
21) Naphthalene-d8	9.77	136	396776	20.00	ng	-0.02
38) Acenaphthene-d10	12.60	164	169141	20.00	ng	-0.02
63) Phenanthrene-d10	15.00	188	240079	20.00	ng	-0.02
75) Chrysene-d12	18.68	240	200301	20.00	ng	-0.02
86) Perylene-d12	20.36	264	152644	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.72	112	362355	61.06	ng	-0.02
7) Phenol-d6	7.30	99	444818	62.47	ng	-0.01
23) Nitrobenzene-d5	8.65	82	245642	39.04	ng	-0.02
41) 2,4,6-Tribromophenol	13.91	330	73010	52.71	ng	-0.01
44) 2-Fluorobiphenyl	11.54	172	532202	45.29	ng	-0.02
78) Terphenyl-d14	17.32	244	314335	34.57	ng	-0.03

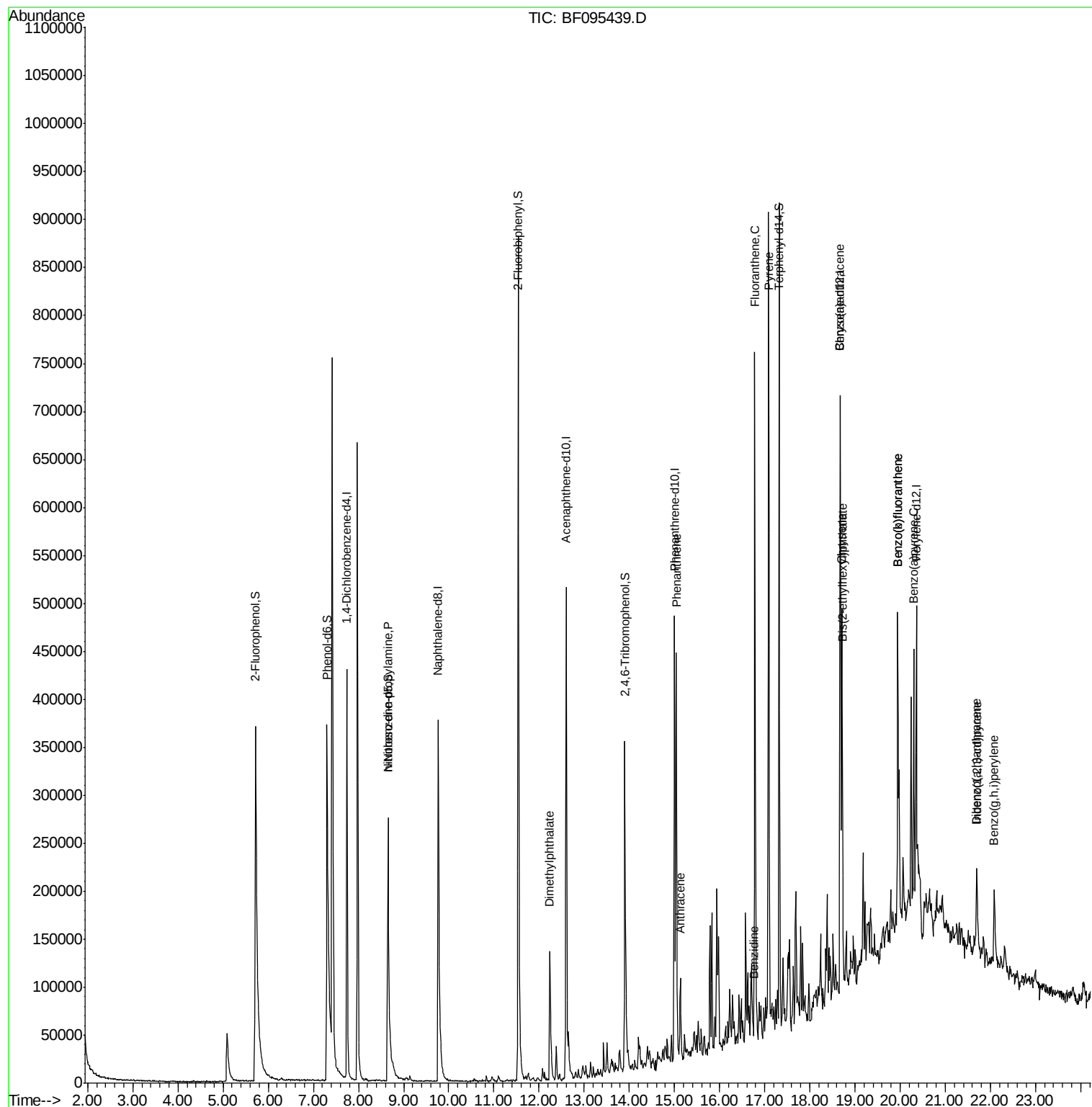
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	8.65	70	27459	5.70	ng	# 77
49) Dimethylphthalate	12.24	163	122313	8.81	ng	98
70) Phenanthrene	15.04	178	252779	18.32	ng	96
71) Anthracene	15.13	178	51130	3.63	ng	97
74) Fluoranthene	16.78	202	377436	26.67	ng	98
76) Benzo(a)anthracene	16.75	184	117	6.61	ng	# 62
77) Pyrene	17.09	202	421929	28.17	ng	96
80) Benzo(a)anthracene	18.67	228	172178	14.77	ng	97
82) Chrysene	18.71	228	196745	17.45	ng	99
83) Bis(2-ethylhexyl)phthalate	18.72	149	21086	2.12	ng	# 92
85) Indeno(1,2,3-cd)pyrene	21.70	276	60020	6.56	ng	94
87) Benzo(b)fluoranthene	19.95	252	233235	24.73	ng	# 95
88) Benzo(k)fluoranthene	19.95	252	233235	25.64	ng	99
89) Benzo(a)pyrene	20.30	252	120349	13.83	ng	96
90) Dibenzo(a,h)anthracene	21.69	278	18672	2.60	ng	# 89
91) Benzo(g,h,i)perylene	22.09	276	61961	8.78	ng	97

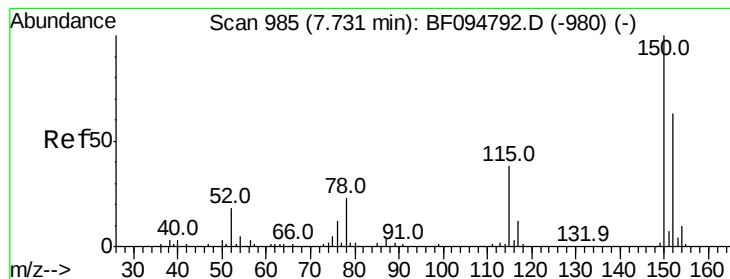
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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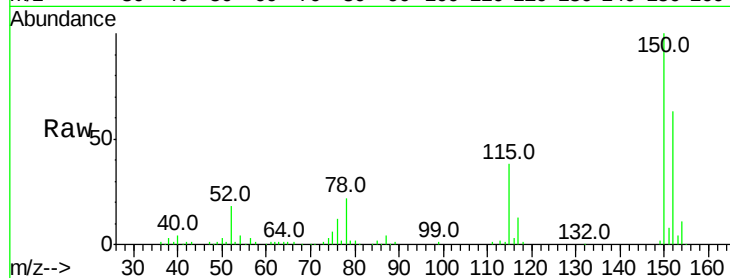


#1

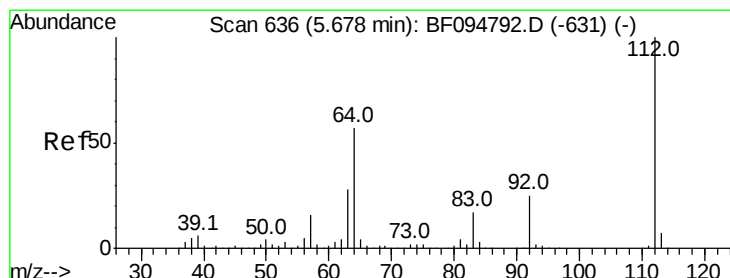
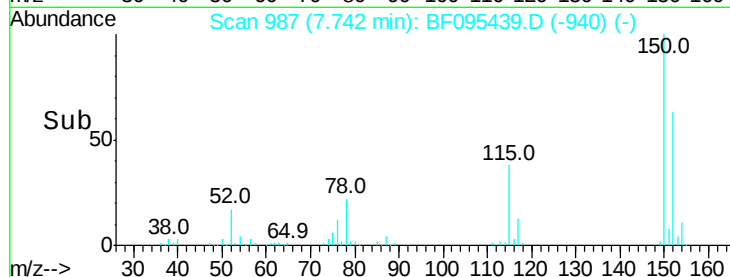
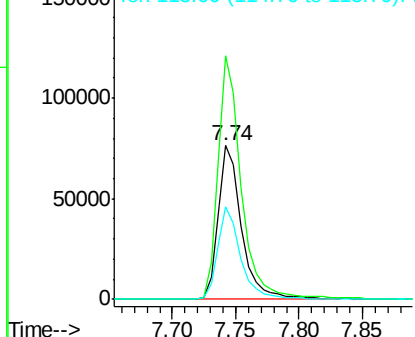
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 987
Delta R.T. -0.02 min
Lab File: BF095439.D
Acq: 25 May 2017 23:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 98945
Ion Ratio Lower Upper
152 100
150 158.2 126.2 189.2
115 59.9 52.2 78.2



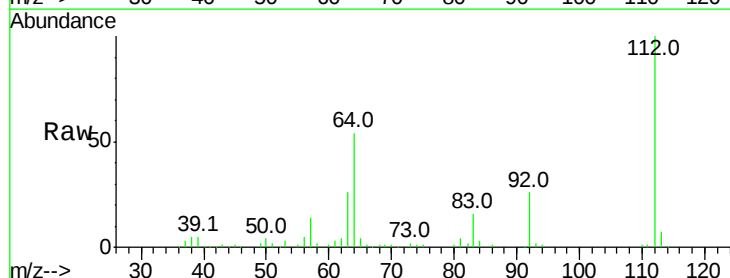
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



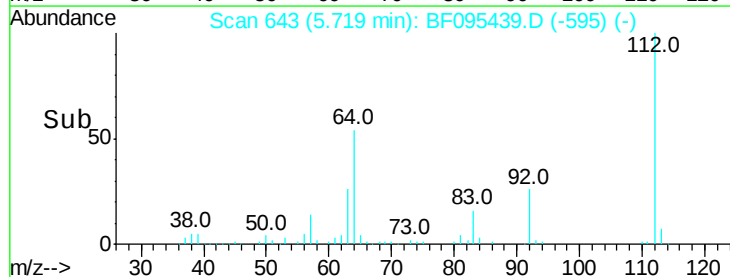
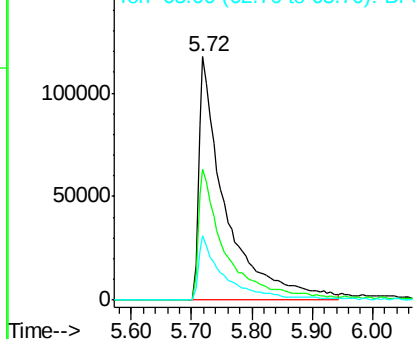
#5

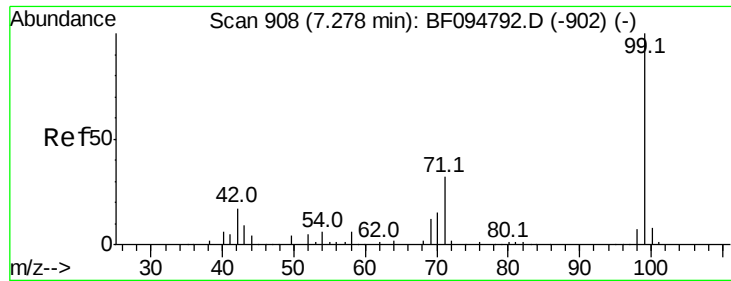
2-Fluorophenol
Concen: 61.06 ng
RT: 5.72 min Scan# 643
Delta R.T. -0.02 min
Lab File: BF095439.D
Acq: 25 May 2017 23:36

Tgt Ion:112 Resp: 362355
Ion Ratio Lower Upper
112 100
64 54.0 46.0 69.0
63 26.4 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: 62.47 ng

RT: 7.30 min Scan# 912

Delta R.T. -0.01 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

Instrument :

BNA_F

ClientSampleId :

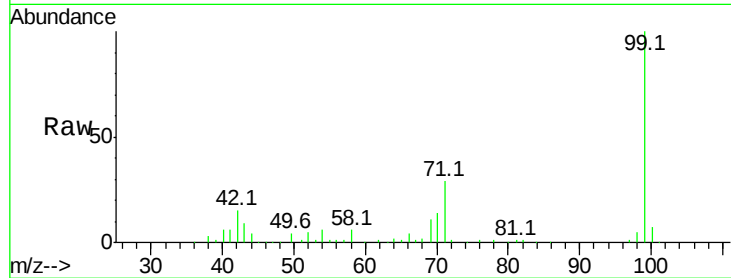
Tot Ion: 99 Resp: 444818

Ion Ratio Lower Upper

99 100

42 14.6 13.5 20.3

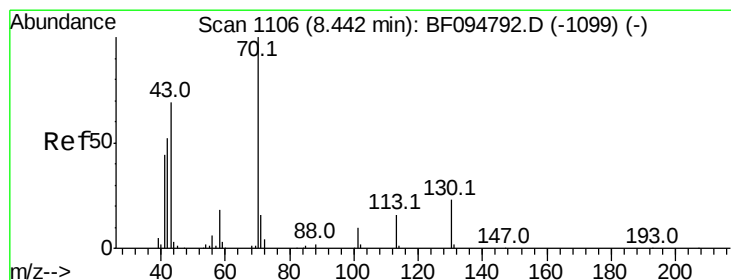
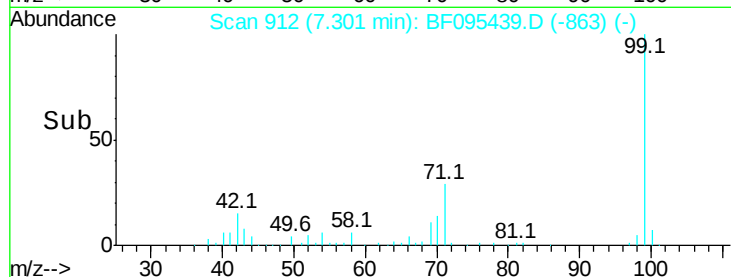
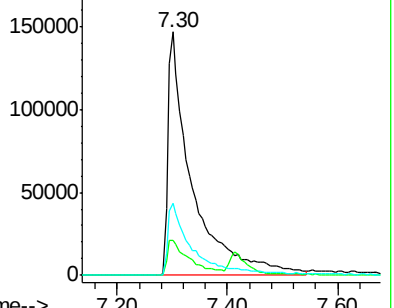
71 29.4 24.5 36.7



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: 5.70 ng

RT: 8.65 min Scan# 1141

Delta R.T. 0.17 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

Tgt Ion: 70 Resp: 27459

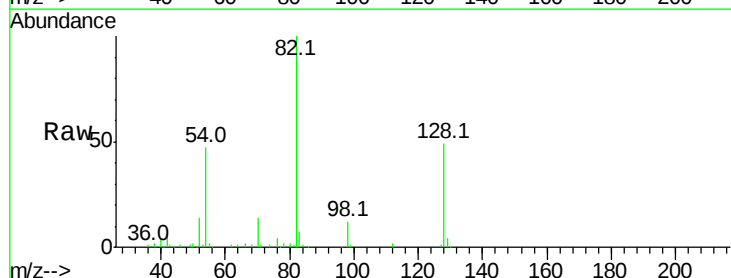
Ion Ratio Lower Upper

70 100

42 45.8 47.2 70.8#

101 0.0 7.2 10.8#

130 2.9 15.9 23.9#

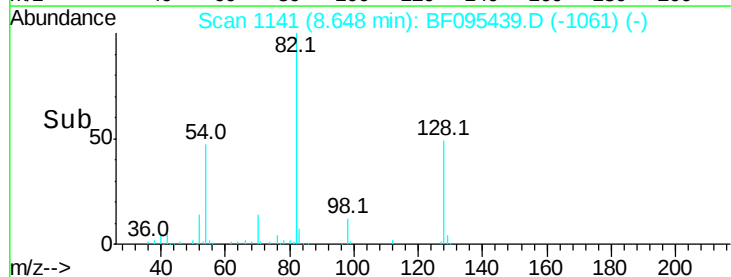
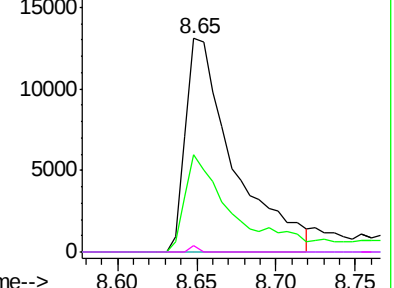


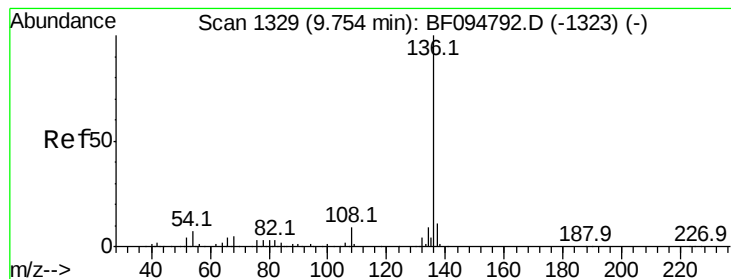
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 9.77 min Scan# 1331

Delta R.T. -0.02 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 396776

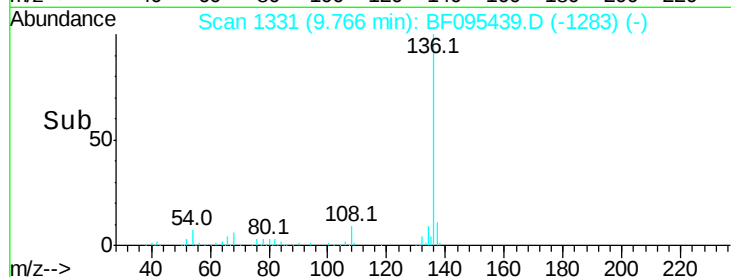
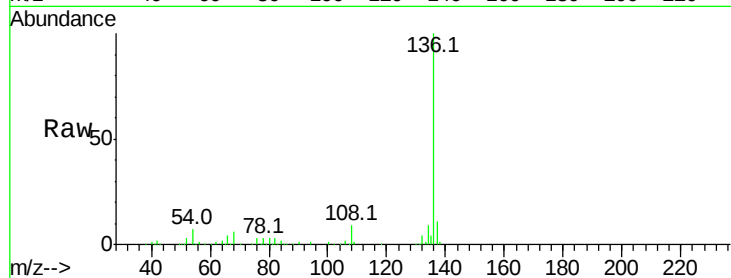
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 6.9 4.9 7.3

68 6.0 4.1 6.1

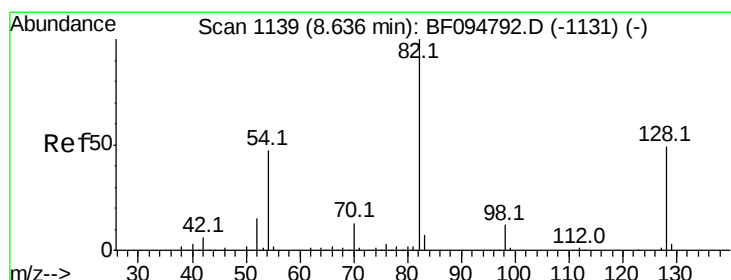
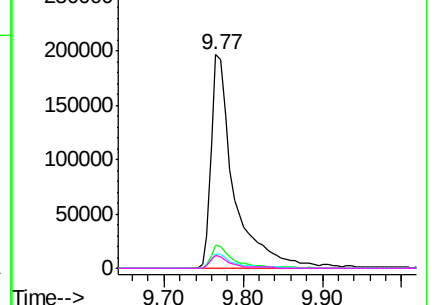


Abundance Ion 136.00 (135.70 to 136.70): E

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: 39.04 ng

RT: 8.65 min Scan# 1142

Delta R.T. -0.02 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

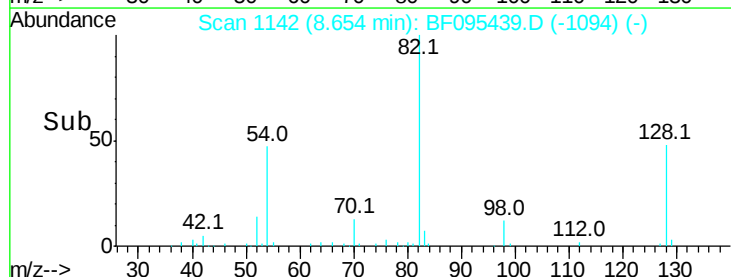
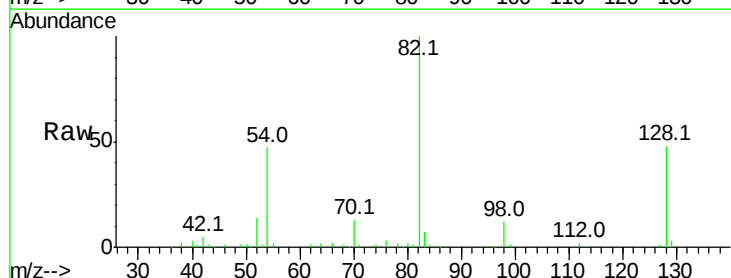
Tgt Ion: 82 Resp: 245642

Ion Ratio Lower Upper

82 100

128 47.6 34.0 51.0

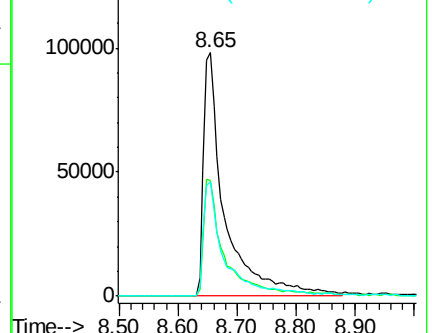
54 46.7 42.2 63.2

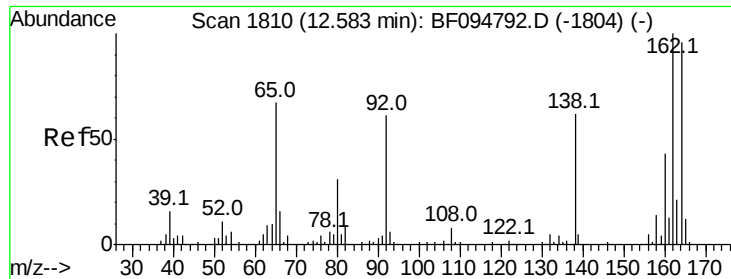


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.60 min Scan# 1813

Delta R.T. -0.02 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

Instrument :

BNA_F

ClientSampleId :

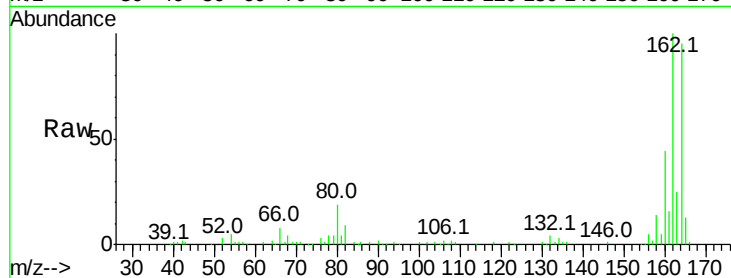
Tot Ion:164 Resp: 169141

Ion Ratio Lower Upper

164 100

162 105.0 82.6 123.8

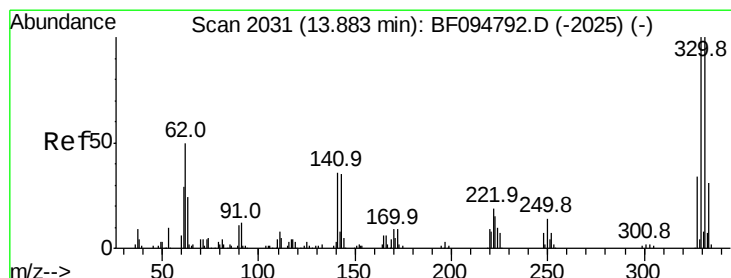
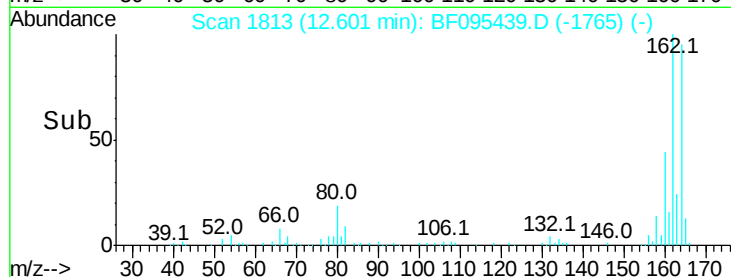
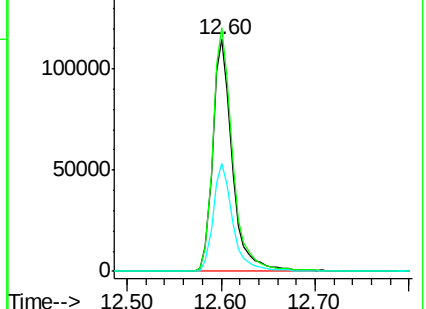
160 46.6 36.2 54.2



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: 52.71 ng

RT: 13.91 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

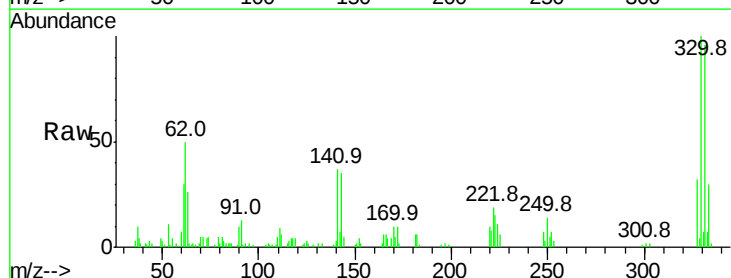
Tgt Ion:330 Resp: 73010

Ion Ratio Lower Upper

330 100

332 95.8 76.6 115.0

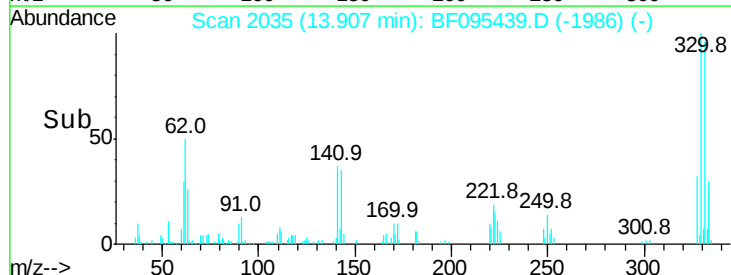
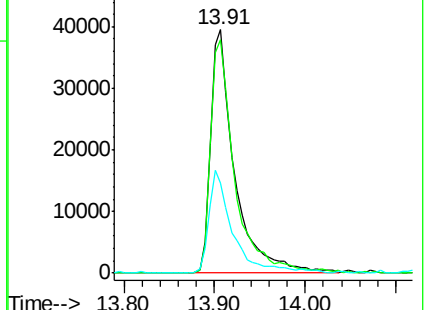
141 42.5 31.4 47.2

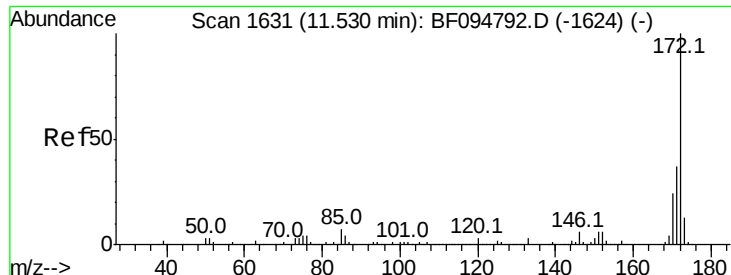


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

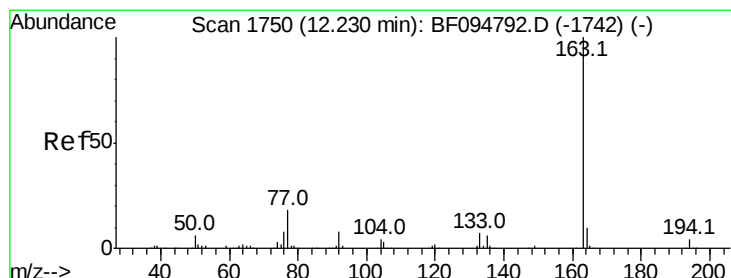
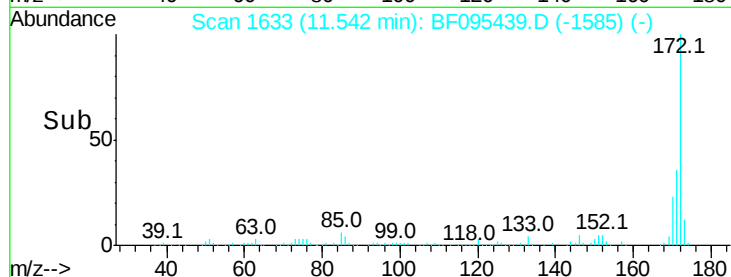
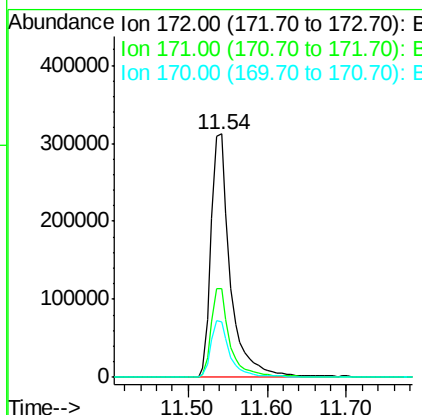
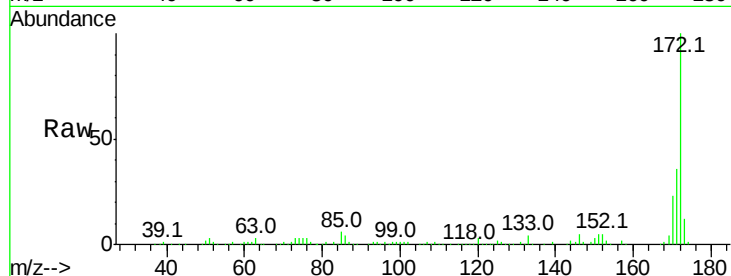




#44
 2-Fluorobiphenyl
 Concen: 45.29 ng
 RT: 11.54 min Scan# 1633
 Delta R.T. -0.02 min
 Lab File: BF095439.D
 Acq: 25 May 2017 23:36

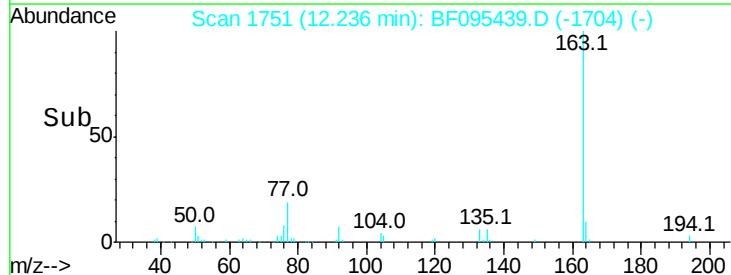
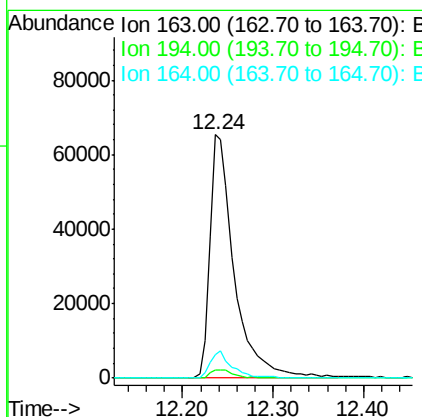
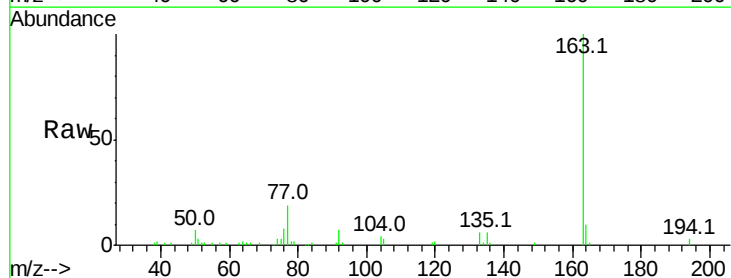
Instrument :
 BNA_F
 ClientSampleId :

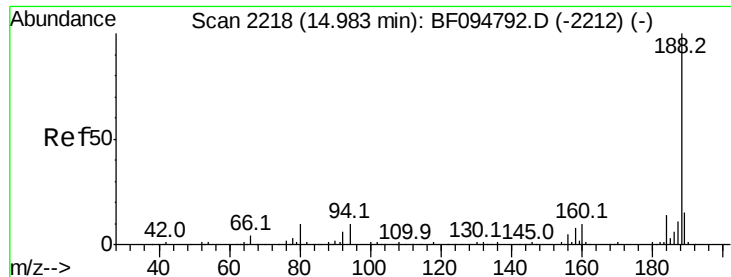
Tot Ion:172 Resp: 532202
 Ion Ratio Lower Upper
 172 100
 171 36.2 29.6 44.4
 170 22.6 19.8 29.8



#49
 Dimethylphthalate
 Concen: 8.81 ng
 RT: 12.24 min Scan# 1751
 Delta R.T. -0.02 min
 Lab File: BF095439.D
 Acq: 25 May 2017 23:36

Tgt Ion:163 Resp: 122313
 Ion Ratio Lower Upper
 163 100
 194 3.4 2.6 4.0
 164 9.6 8.4 12.6

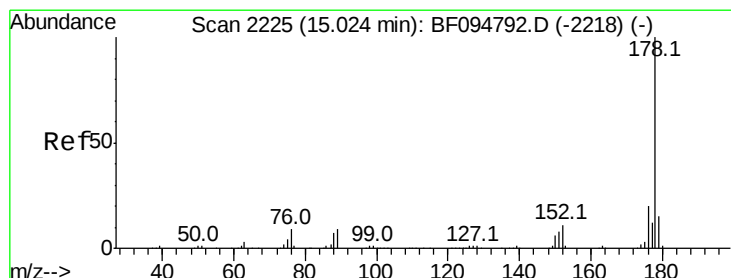
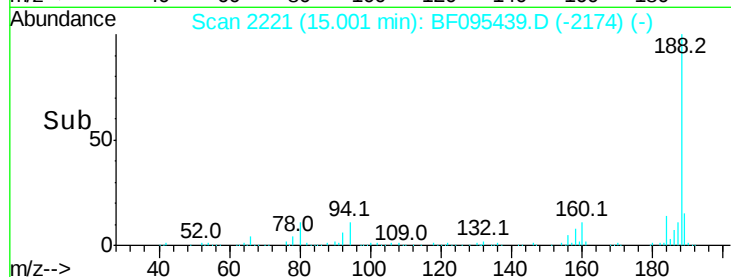
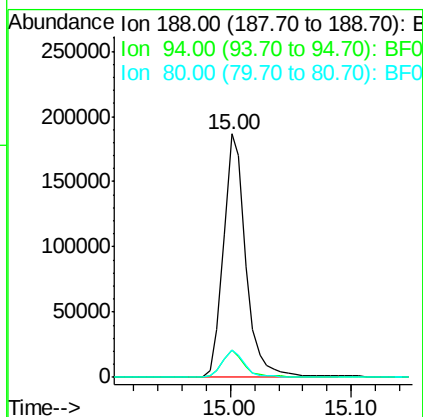
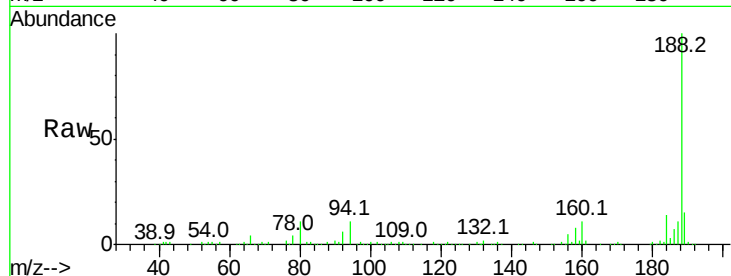




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 15.00 min Scan# 2221
 Delta R.T. -0.02 min
 Lab File: BF095439.D
 Acq: 25 May 2017 23:36

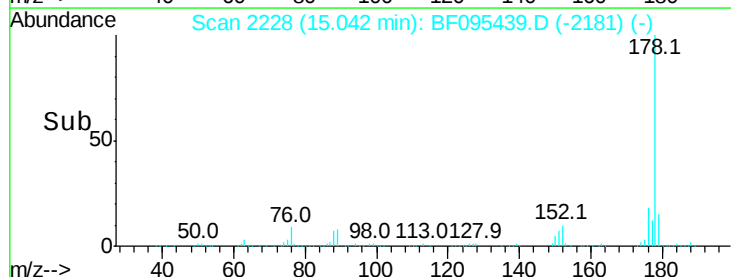
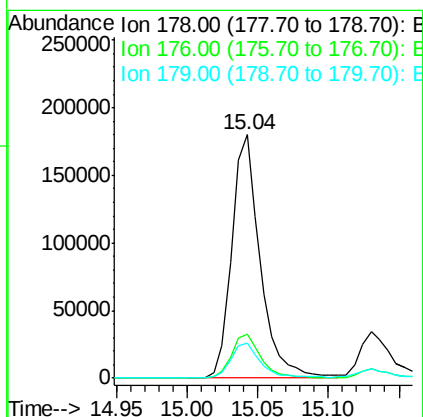
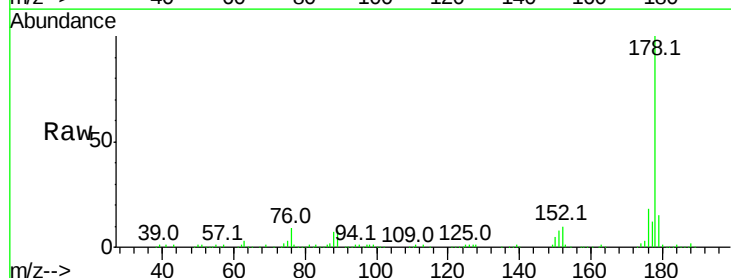
Instrument :
 BNA_F
 ClientSampleId :

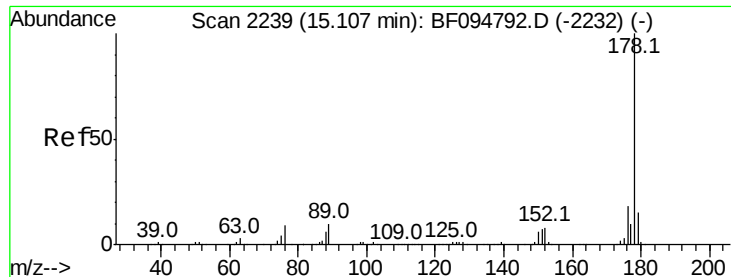
Tot Ion:188 Resp: 240079
 Ion Ratio Lower Upper
 188 100
 94 11.2 9.4 14.2
 80 11.2 10.2 15.2



#70
 Phenanthrene
 Concen: 18.32 ng
 RT: 15.04 min Scan# 2228
 Delta R.T. -0.02 min
 Lab File: BF095439.D
 Acq: 25 May 2017 23:36

Tgt Ion:178 Resp: 252779
 Ion Ratio Lower Upper
 178 100
 176 18.3 16.2 24.4
 179 14.5 12.6 19.0

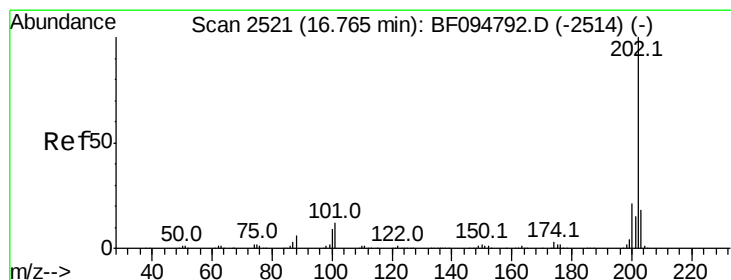
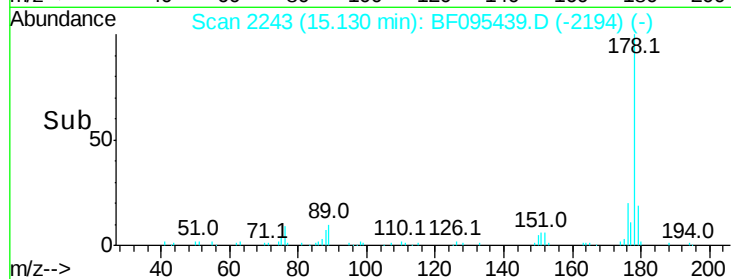
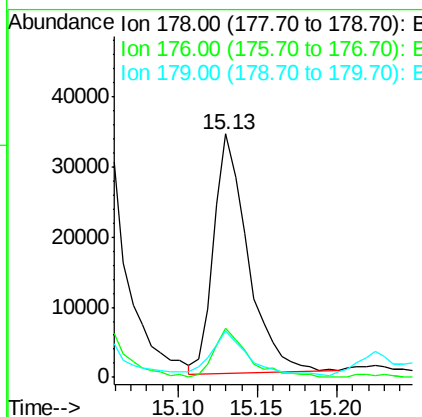
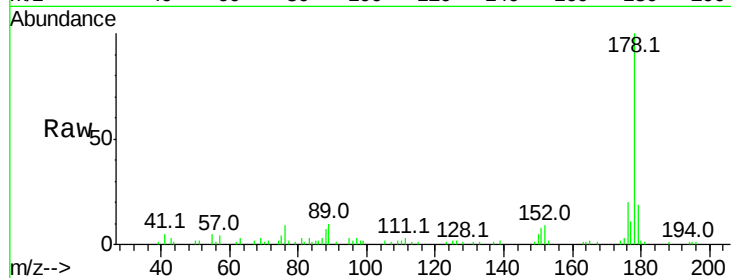




#71
 Anthracene
 Concen: 3.63 ng
 RT: 15.13 min Scan# 2243
 Delta R.T. -0.01 min
 Lab File: BF095439.D
 Acq: 25 May 2017 23:36

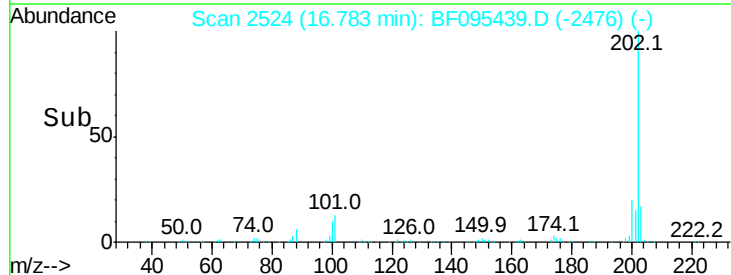
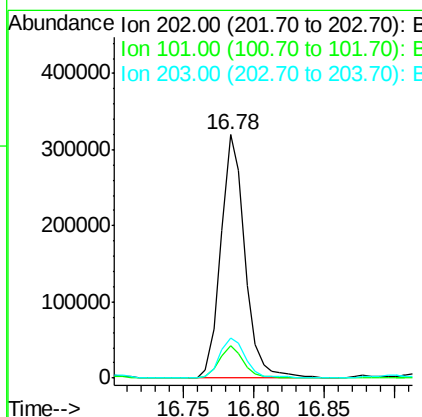
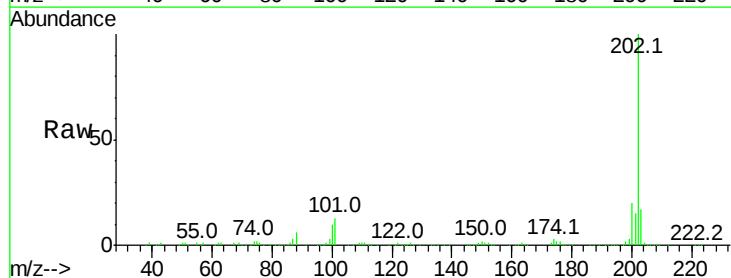
Instrument :
 BNA_F
 ClientSampled :

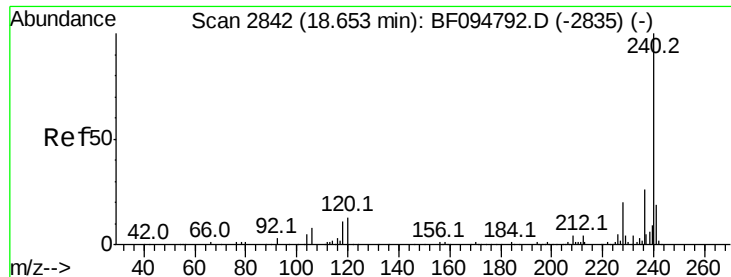
Tot Ion:178 Resp: 51130
 Ion Ratio Lower Upper
 178 100
 176 19.9 15.8 23.8
 179 18.9 12.7 19.1



#74
 Fluoranthene
 Concen: 26.67 ng
 RT: 16.78 min Scan# 2524
 Delta R.T. -0.02 min
 Lab File: BF095439.D
 Acq: 25 May 2017 23:36

Tgt Ion:202 Resp: 377436
 Ion Ratio Lower Upper
 202 100
 101 13.3 0.0 33.2
 203 16.7 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.68 min Scan# 2846

Delta R.T. -0.02 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

Instrument :

BNA_F

ClientSampleId :

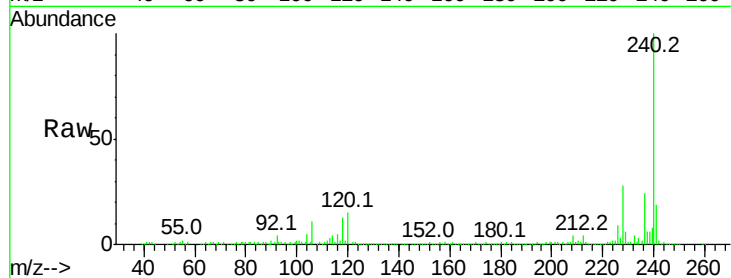
Tot Ion:240 Resp: 200301

Ion Ratio Lower Upper

240 100

120 14.9 5.8 8.8#

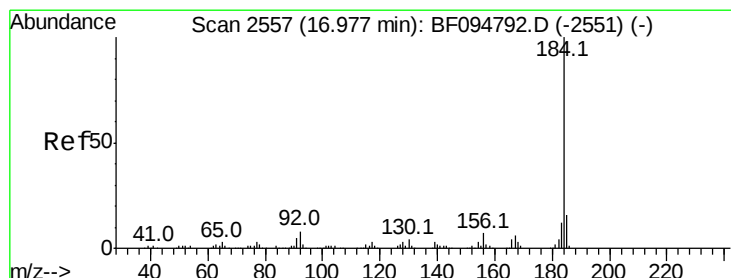
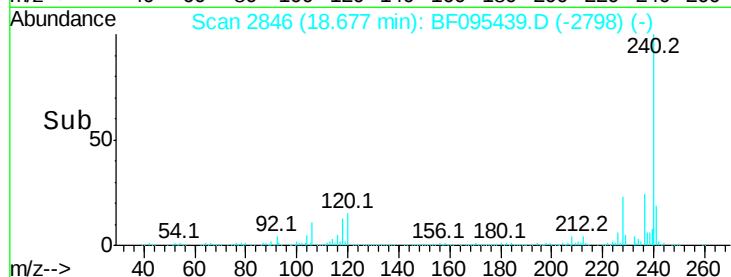
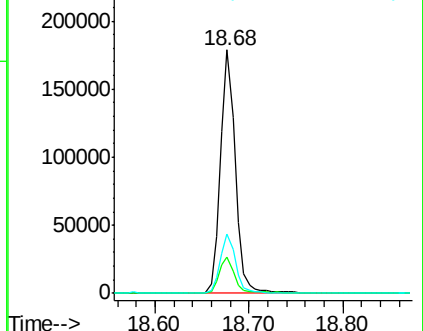
236 24.5 20.5 30.7



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: 16.75 min Scan# 2518

Delta R.T. -0.27 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

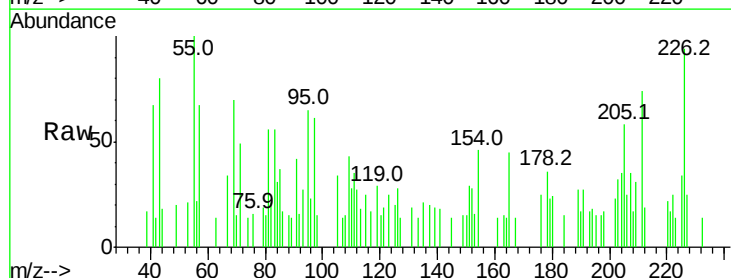
Tgt Ion:184 Resp: 117

Ion Ratio Lower Upper

184 100

185 0.0 15.5 23.3#

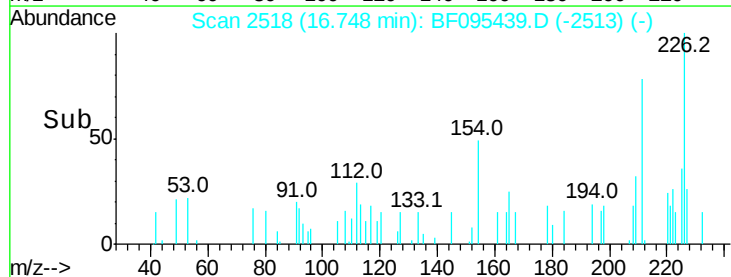
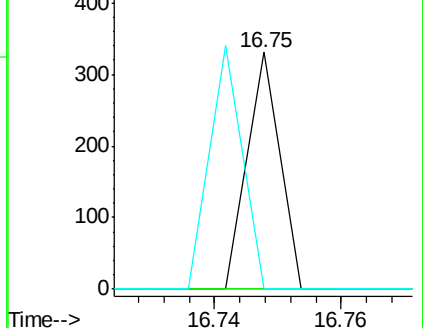
183 0.0 9.8 14.6#

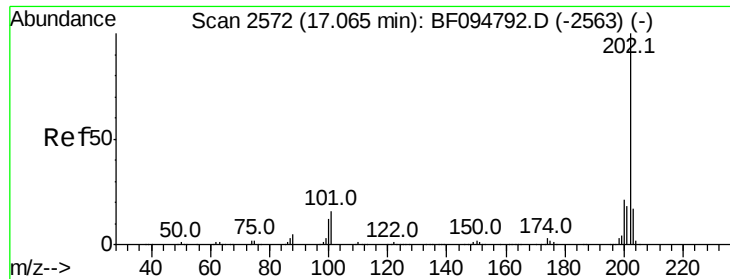


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pvrene

Concen: 28.17 ng

RT: 17.09 min Scan# 2576

Delta R.T. -0.02 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

Instrument :

BNA_F

ClientSampleId :

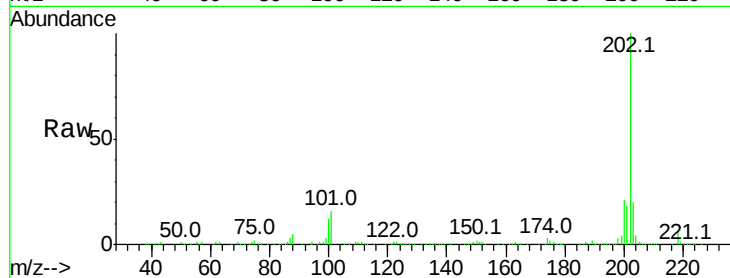
Tot Ion:202 Resp: 421929

Ion Ratio Lower Upper

202 100

200 20.6 17.6 26.4

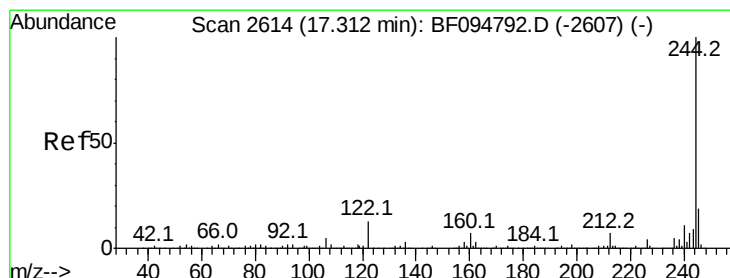
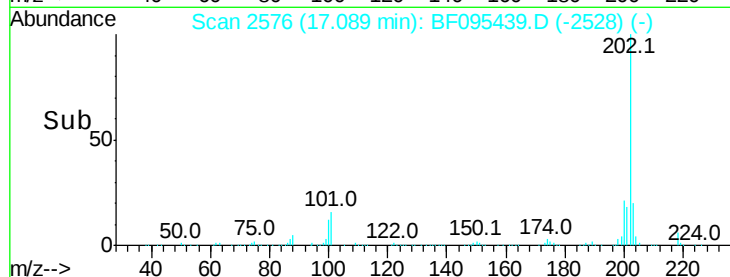
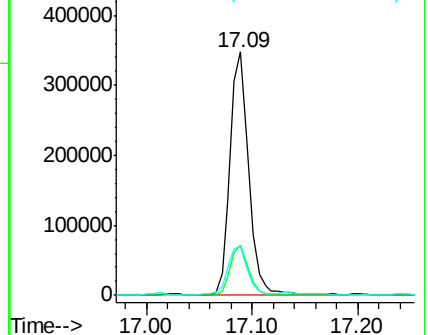
203 20.0 14.4 21.6



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: 34.57 ng

RT: 17.32 min Scan# 2615

Delta R.T. -0.03 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

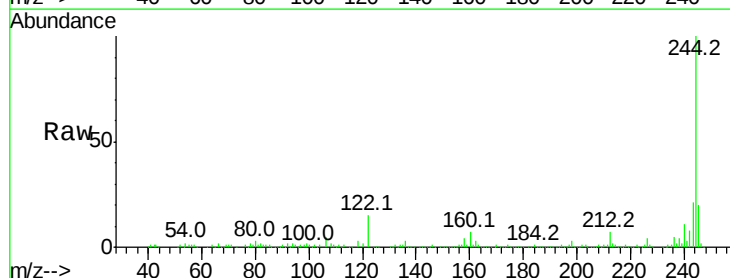
Tgt Ion:244 Resp: 314335

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

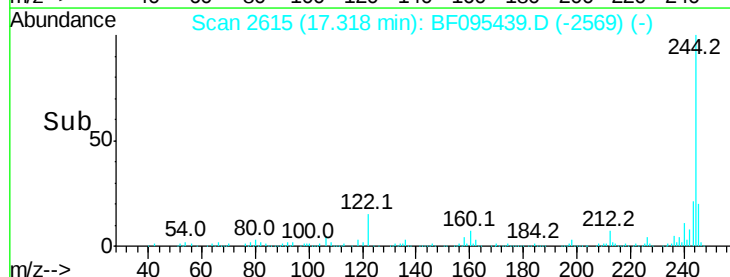
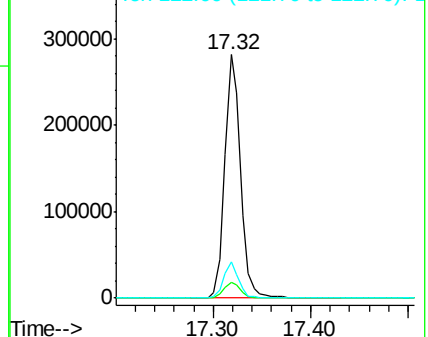
122 14.8 10.3 15.5

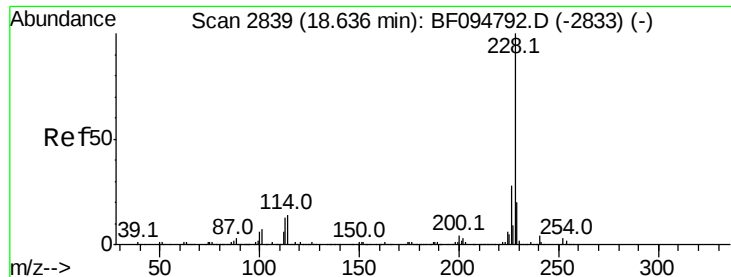


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

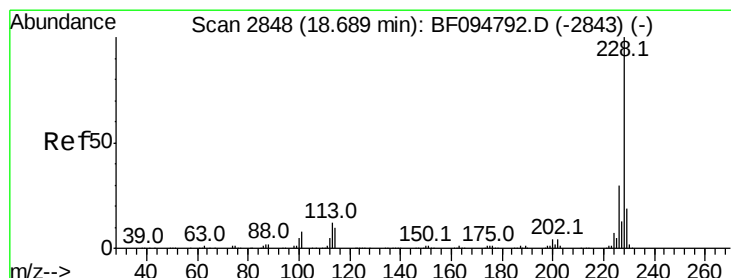
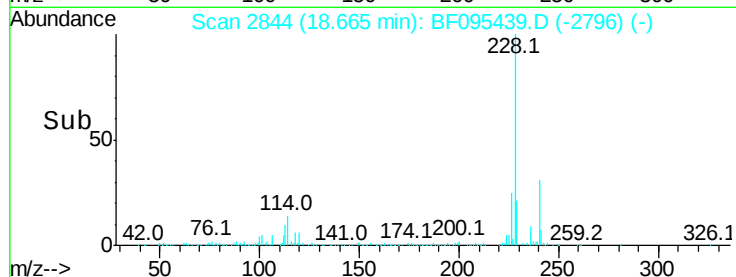
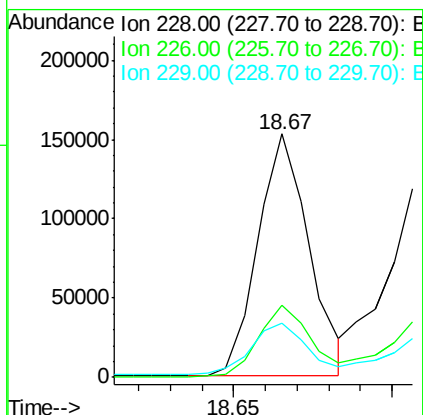
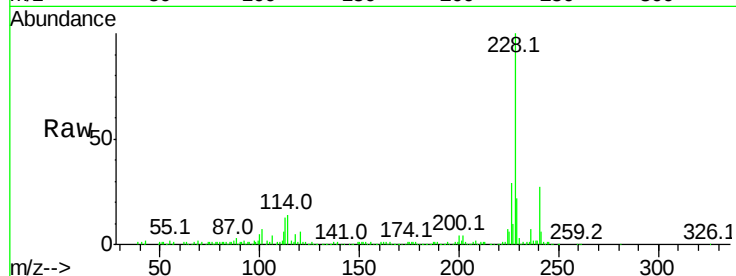




#80
Benzo(a)anthracene
Concen: 14.77 ng
RT: 18.67 min Scan# 2844
Delta R.T. -0.02 min
Lab File: BF095439.D
Acq: 25 May 2017 23:36

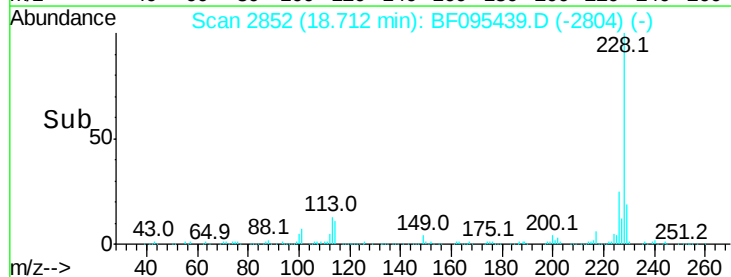
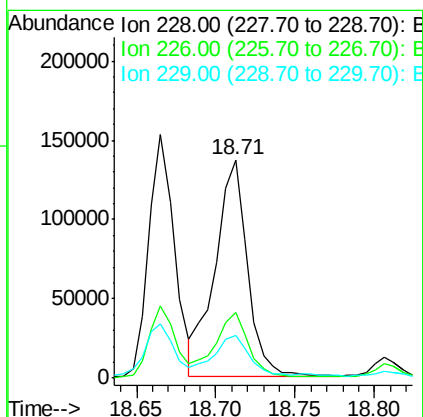
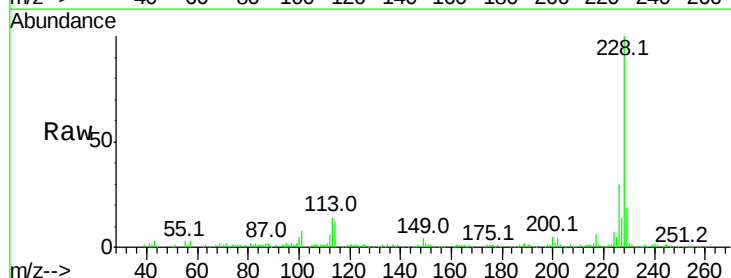
Instrument :
BNA_F
ClientSampleId :

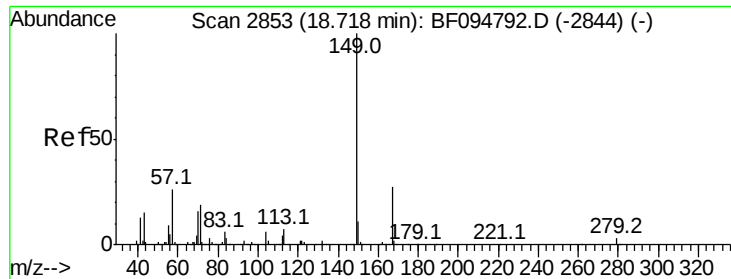
Tot Ion:228 Resp: 172178
Ion Ratio Lower Upper
228 100
226 29.4 22.6 33.8
229 22.3 16.3 24.5



#82
Chrysene
Concen: 17.45 ng
RT: 18.71 min Scan# 2852
Delta R.T. -0.02 min
Lab File: BF095439.D
Acq: 25 May 2017 23:36

Tgt Ion:228 Resp: 196745
Ion Ratio Lower Upper
228 100
226 30.2 24.9 37.3
229 19.3 15.8 23.6

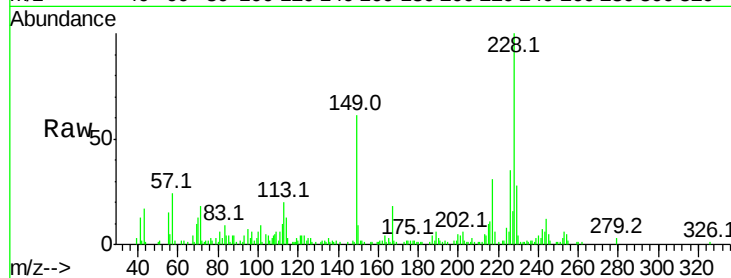




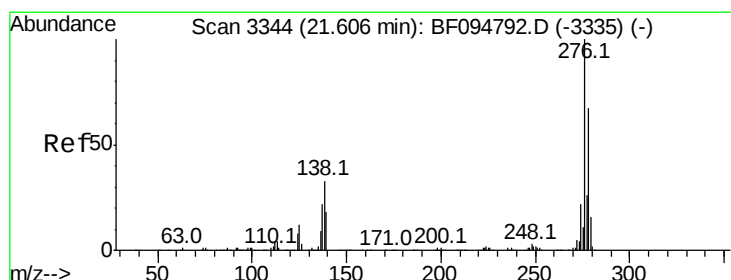
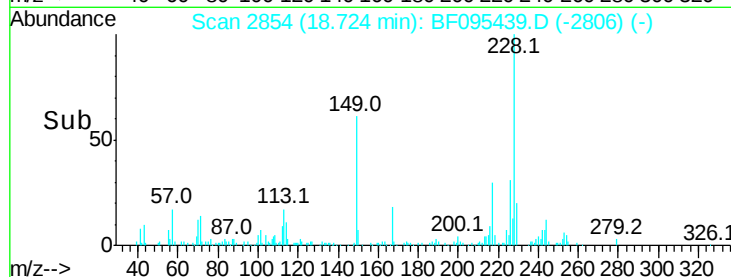
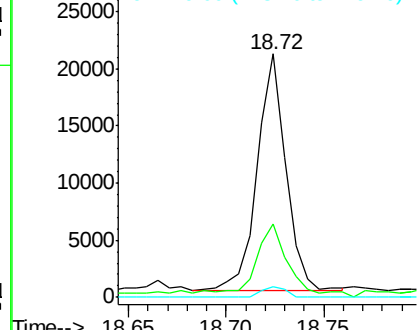
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.12 ng
 RT: 18.72 min Scan# 2854
 Delta R.T. -0.02 min
 Lab File: BF095439.D
 Acq: 25 May 2017 23:36

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:149 Resp: 21086
 Ion Ratio Lower Upper
 149 100
 167 30.4 21.0 31.4
 279 4.2 1.9 2.9#

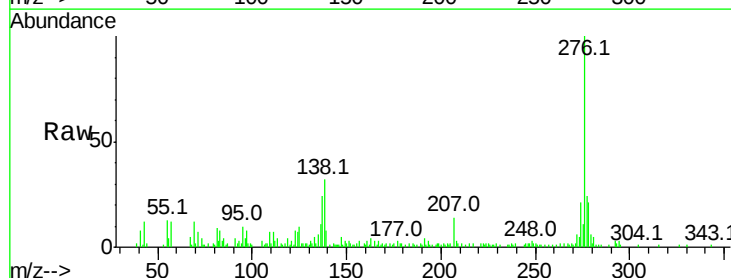


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

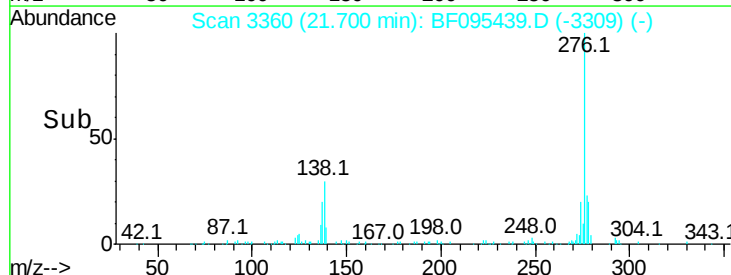
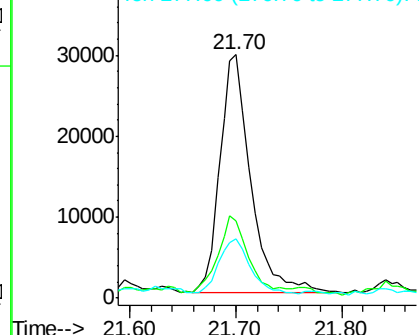


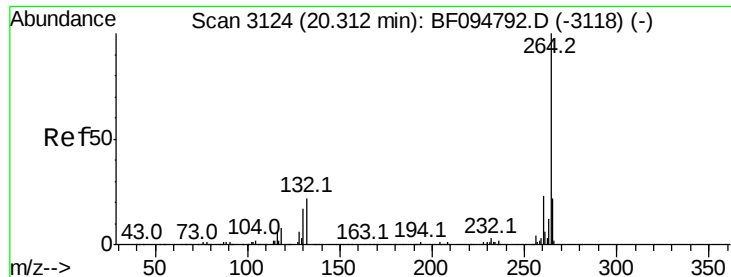
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.56 ng
 RT: 21.70 min Scan# 3360
 Delta R.T. 0.00 min
 Lab File: BF095439.D
 Acq: 25 May 2017 23:36

Tgt Ion:276 Resp: 60020
 Ion Ratio Lower Upper
 276 100
 138 30.6 27.8 41.6
 277 23.3 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# 3132

Delta R.T. -0.01 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

Instrument :

BNA_F

ClientSampleId :

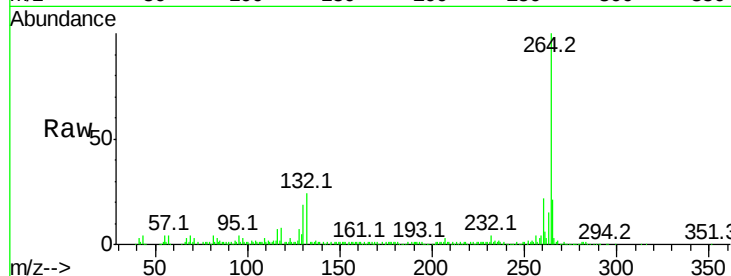
Tot Ion:264 Resp: 152644

Ion Ratio Lower Upper

264 100

260 22.1 19.5 29.3

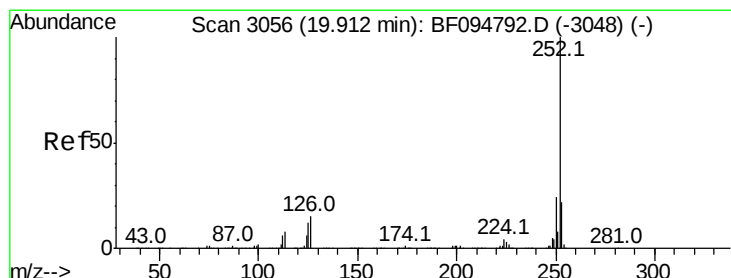
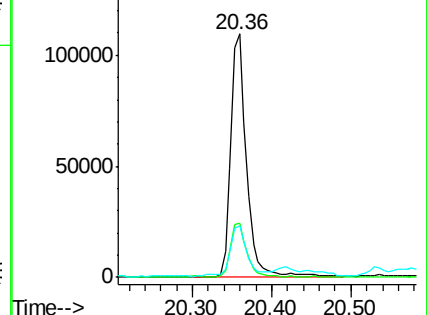
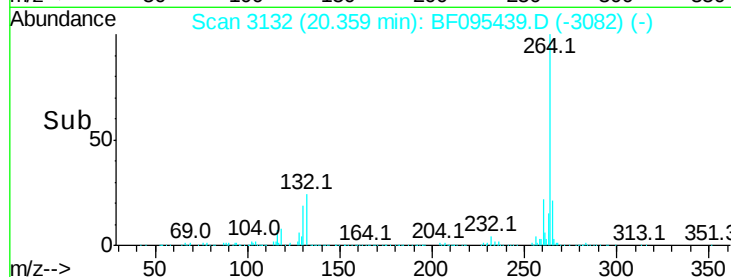
265 21.5 17.2 25.8



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: 24.73 ng

RT: 19.95 min Scan# 3062

Delta R.T. -0.01 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

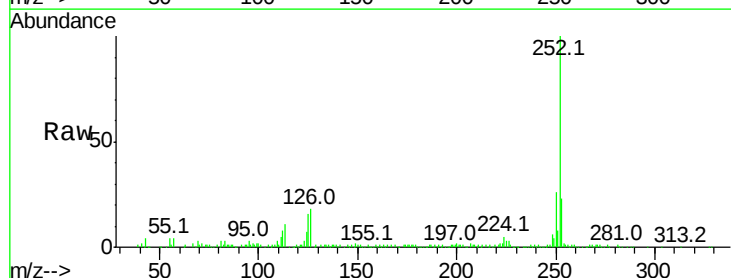
Tgt Ion:252 Resp: 233235

Ion Ratio Lower Upper

252 100

253 23.5 18.1 27.1

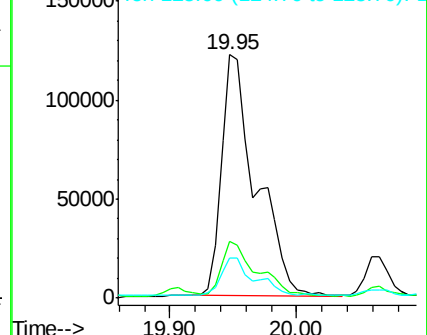
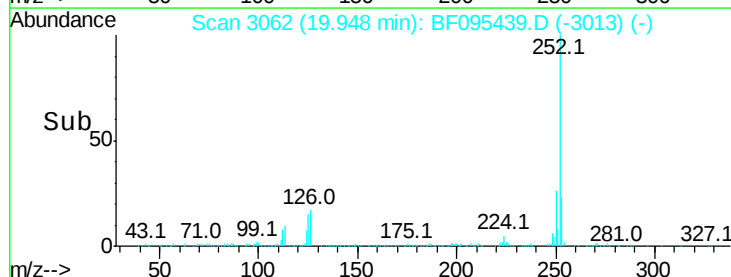
125 16.4 9.8 14.8#

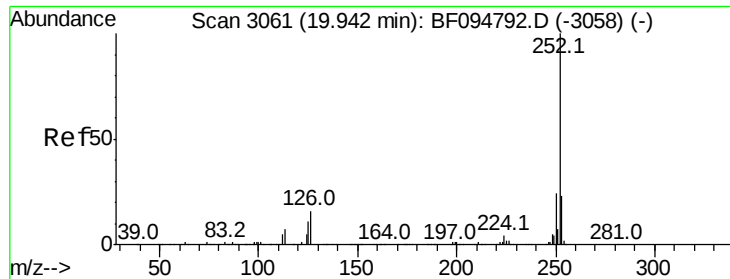


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

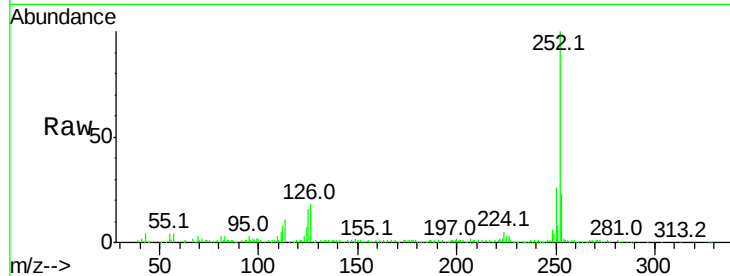




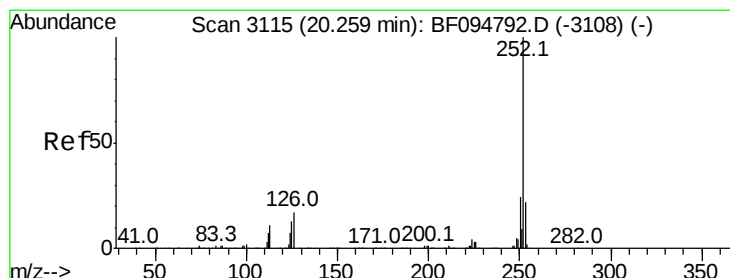
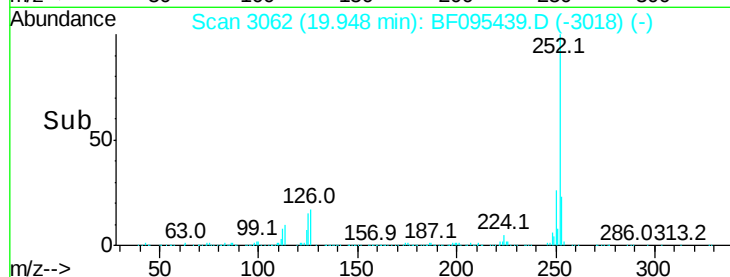
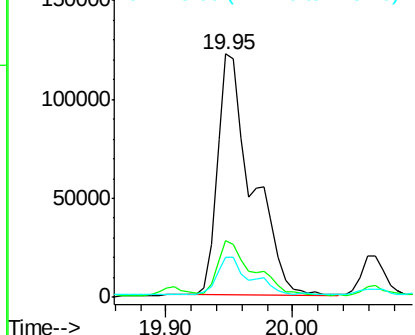
#88
Benzo(k)fluoranthene
Concen: 25.64 ng
RT: 19.95 min Scan# 3062
Delta R.T. -0.04 min
Lab File: BF095439.D
Acq: 25 May 2017 23:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.4	27.6
125	16.4	13.1	19.7

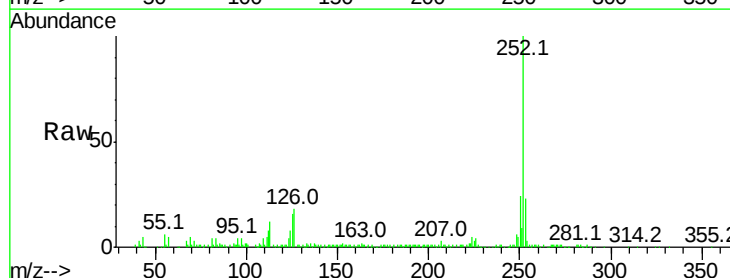


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

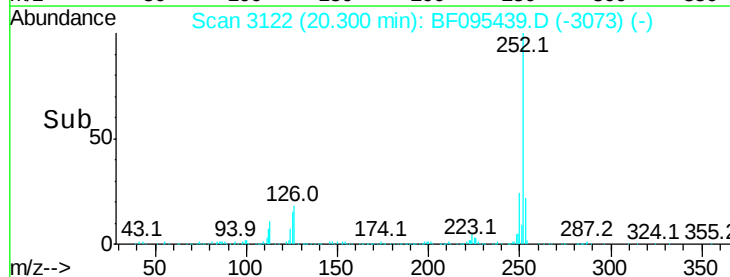
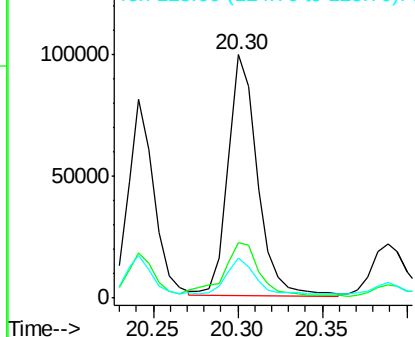


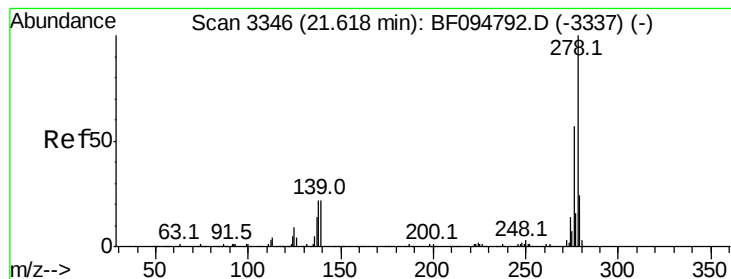
#89
Benzo(a)pyrene
Concen: 13.83 ng
RT: 20.30 min Scan# 3122
Delta R.T. -0.01 min
Lab File: BF095439.D
Acq: 25 May 2017 23:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	16.3	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: 2.60 ng

RT: 21.69 min Scan# 3358

Delta R.T. -0.01 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

Instrument :

BNA_F

ClientSampleId :

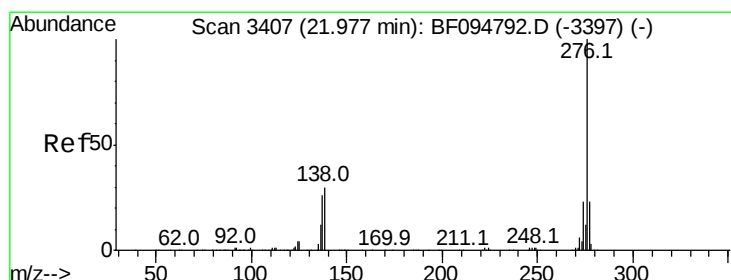
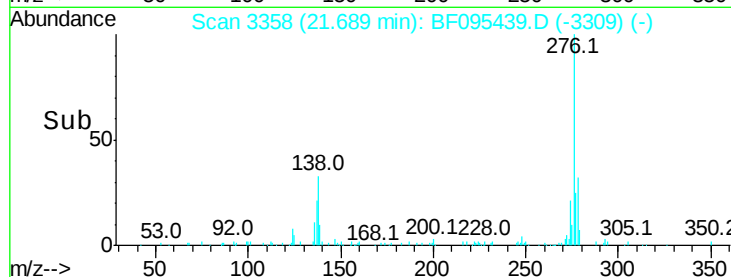
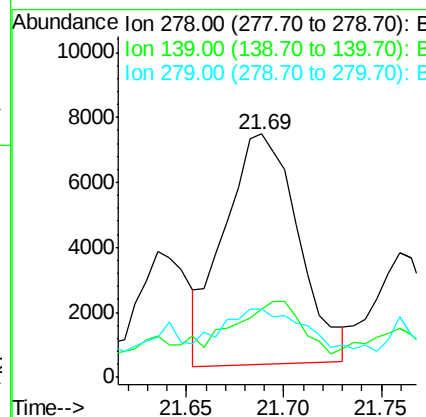
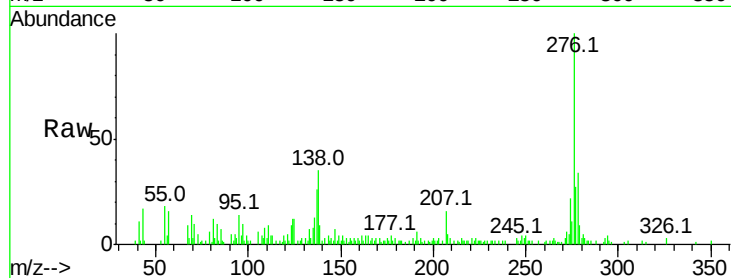
Tot Ion:278 Resp: 18672

Ion Ratio Lower Upper

278 100

139 27.9 16.6 24.8#

279 28.0 19.3 28.9



#91

Benzo(g,h,i)perylene

Concen: 8.78 ng

RT: 22.09 min Scan# 3426

Delta R.T. 0.01 min

Lab File: BF095439.D

Acq: 25 May 2017 23:36

Tgt Ion:276 Resp: 61961

Ion Ratio Lower Upper

276 100

277 23.3 18.6 28.0

138 28.4 25.4 38.0

