

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060217\
 Data File : BF095651.D
 Acq On : 3 Jun 2017 00:22
 Operator : SJ/MA
 Sample : I3441-03 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 05 04:58:58 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 01 18:51:16 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.54	152	82569	20.00	ng	0.00
21) Naphthalene-d8	9.57	136	316231	20.00	ng	0.00
38) Acenaphthene-d10	12.40	164	121886	20.00	ng	0.00
63) Phenanthrene-d10	14.80	188	186960	20.00	ng	0.00
75) Chrysene-d12	18.50	240	170376	20.00	ng	0.00
86) Perylene-d12	20.17	264	120323	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	69217	13.98	ng	0.04
7) Phenol-d6	7.13	99	103656	17.44	ng	0.03
23) Nitrobenzene-d5	8.47	82	57276	11.42	ng	0.00
41) 2,4,6-Tribromophenol	13.71	330	15277	15.30	ng	0.01
44) 2-Fluorobiphenyl	11.35	172	129537	15.30	ng	0.00
78) Terphenyl-d14	17.14	244	88822	11.48	ng	0.00

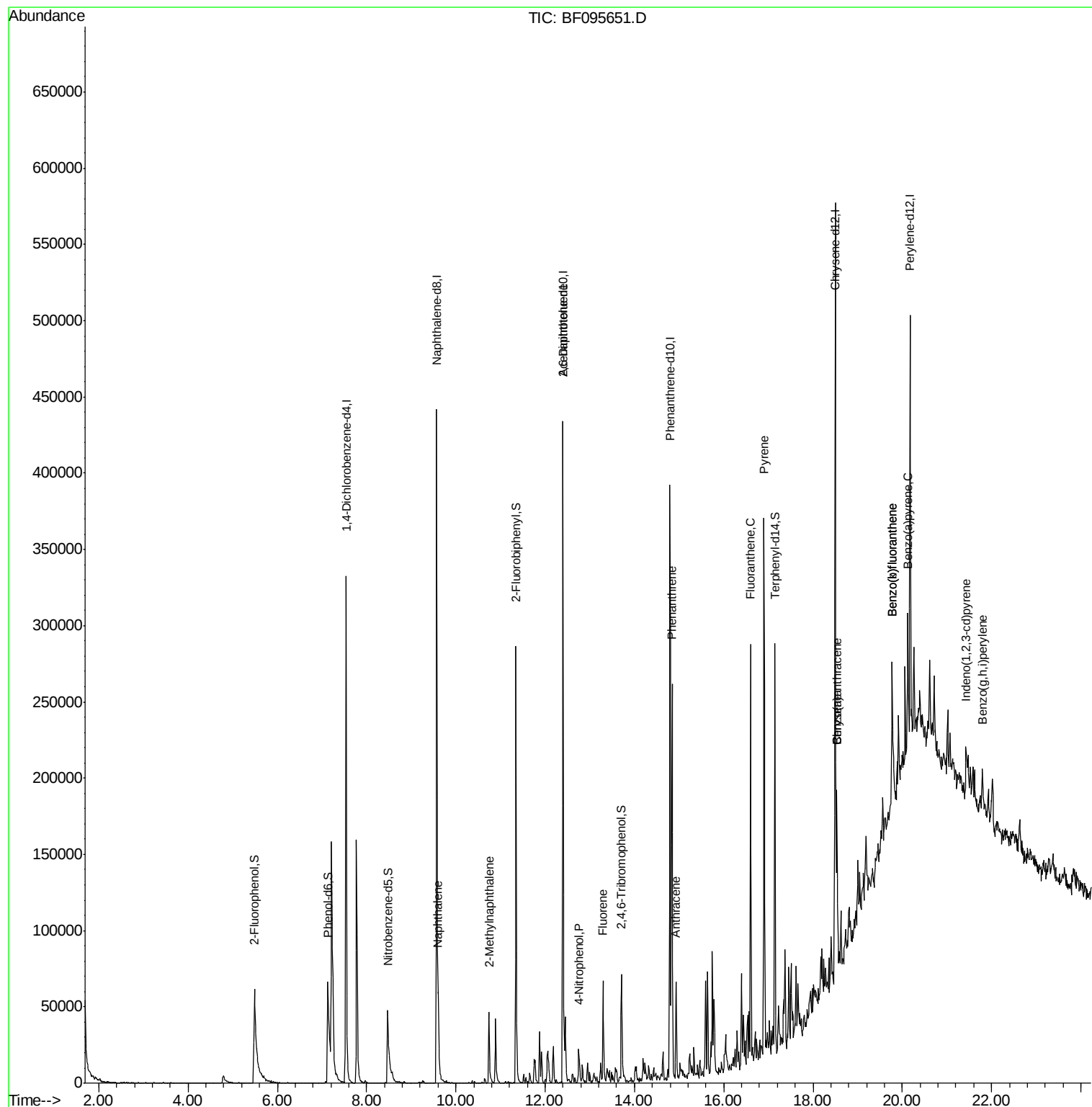
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	9.60	128	39369	2.48	ng	95
37) 2-Methylnaphthalene	10.74	142	25023	2.40	ng	96
50) 2,6-Dinitrotoluene	12.40	165	15628	7.66	ng	# 31
55) 4-Nitrophenol	12.75	139	5600	4.26	ng	# 25
57) Fluorene	13.30	166	28929	3.10	ng	95
70) Phenanthrene	14.84	178	156790	14.60	ng	97
71) Anthracene	14.93	178	41672	3.80	ng	94
74) Fluoranthene	16.60	202	149590	13.58	ng	98
77) Pyrene	16.90	202	156044	12.25	ng	97
80) Benzo(a)anthracene	18.53	228	55015	5.55	ng	96
82) Chrysene	18.53	228	55015	5.74	ng	98
85) Indeno(1,2,3-cd)pyrene	21.43	276	19413	2.49	ng	94
87) Benzo(b)fluoranthene	19.77	252	64834	8.72	ng	# 96
88) Benzo(k)fluoranthene	19.77	252	64834	9.04	ng	99
89) Benzo(a)pyrene	20.12	252	35507	5.18	ng	# 91
91) Benzo(g,h,i)perylene	21.80	276	20247	3.64	ng	# 94

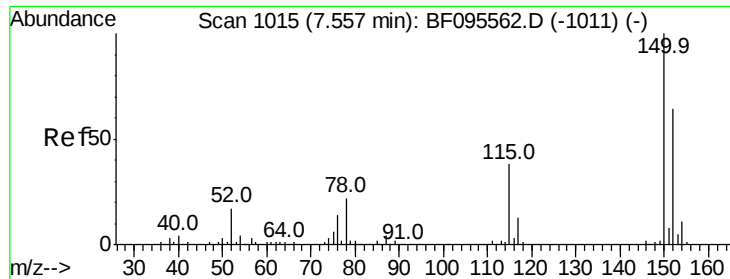
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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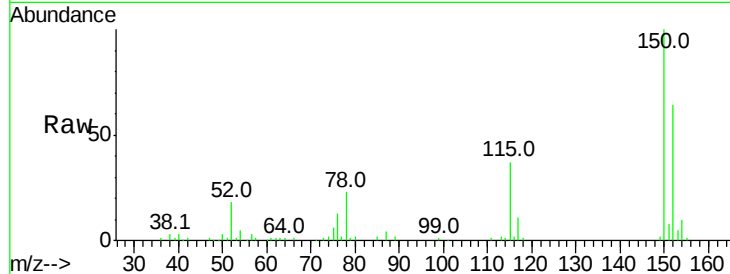


#1

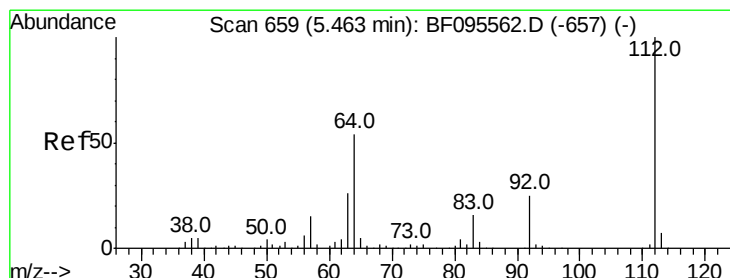
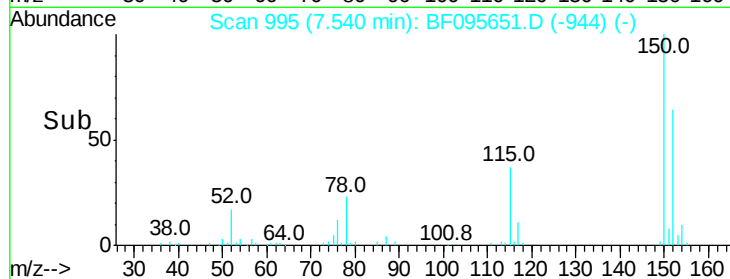
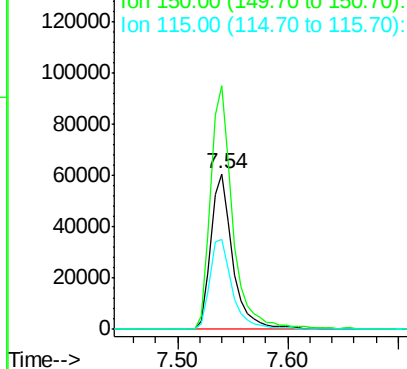
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.54 min Scan# 995
Delta R.T. 0.00 min
Lab File: BF095651.D
Acq: 3 Jun 2017 00:22

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 82569
Ion Ratio Lower Upper
152 100
150 156.2 126.2 189.2
115 57.7 52.2 78.2



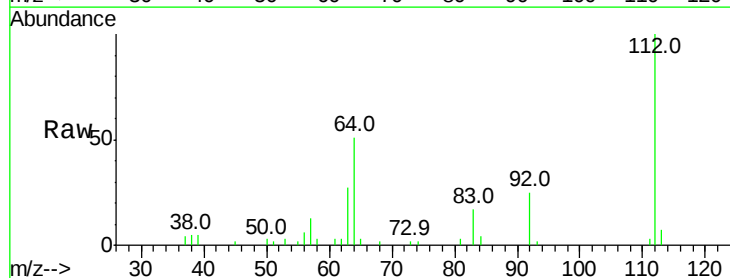
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



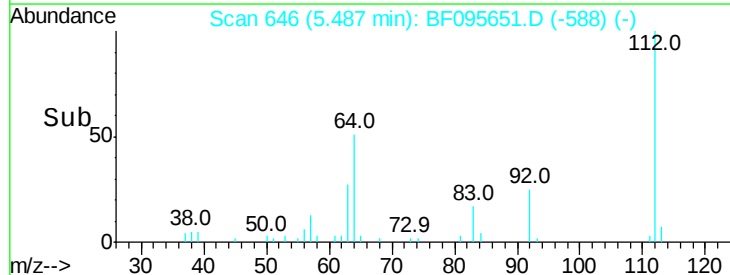
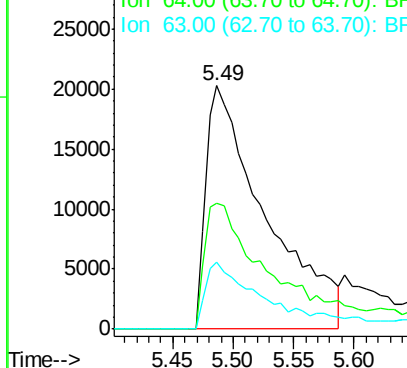
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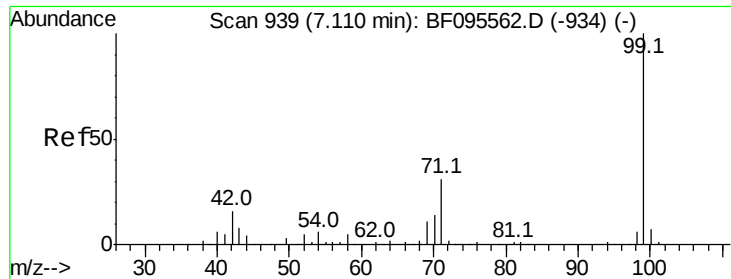
2-Fluorophenol
Concen: 13.98 ng
RT: 5.49 min Scan# 646
Delta R.T. 0.04 min
Lab File: BF095651.D
Acq: 3 Jun 2017 00:22

Tgt Ion:112 Resp: 69217
Ion Ratio Lower Upper
112 100
64 51.5 46.0 69.0
63 27.3 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: 17.44 ng

RT: 7.13 min Scan# 925

Delta R.T. 0.03 min

Lab File: BF095651.D

Acq: 3 Jun 2017 00:22

Instrument :

BNA_F

ClientSampleId :

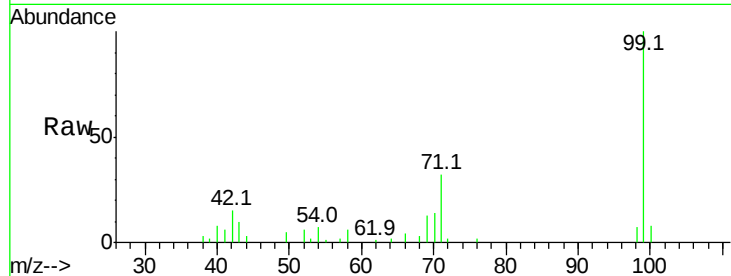
Tot Ion: 99 Resp: 103656

Ion Ratio Lower Upper

99 100

42 15.5 13.5 20.3

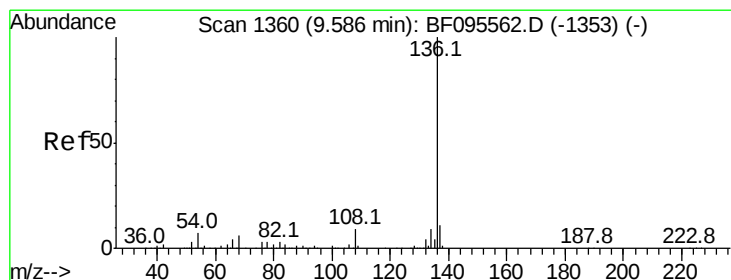
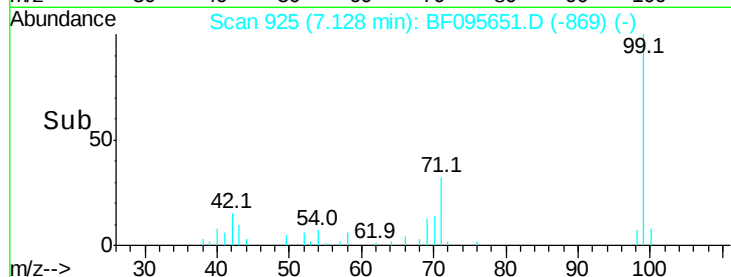
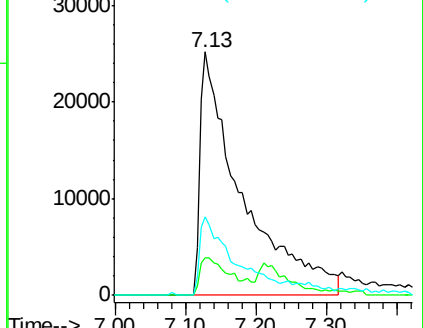
71 32.5 24.5 36.7



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.57 min Scan# 1340

Delta R.T. -0.01 min

Lab File: BF095651.D

Acq: 3 Jun 2017 00:22

Tgt Ion:136 Resp: 316231

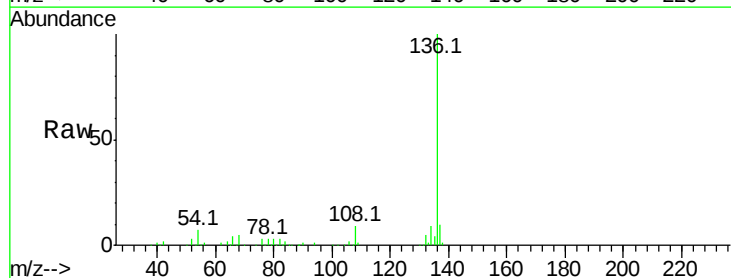
Ion Ratio Lower Upper

136 100

137 10.1 8.5 12.7

54 6.5 4.9 7.3

68 5.0 4.1 6.1

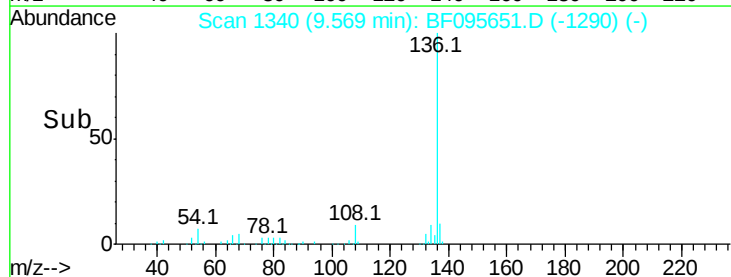
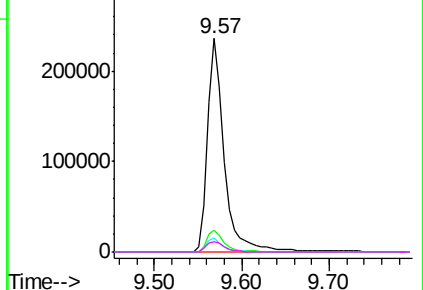


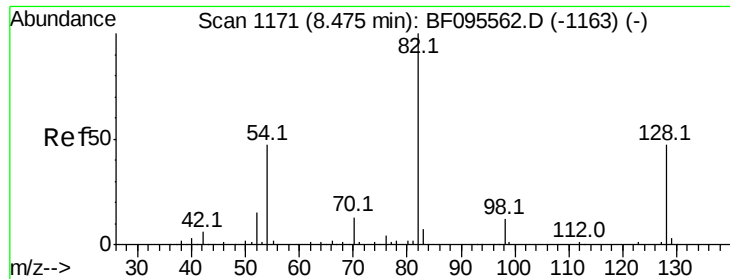
Abundance Ion 136.00 (135.70 to 136.70): E

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

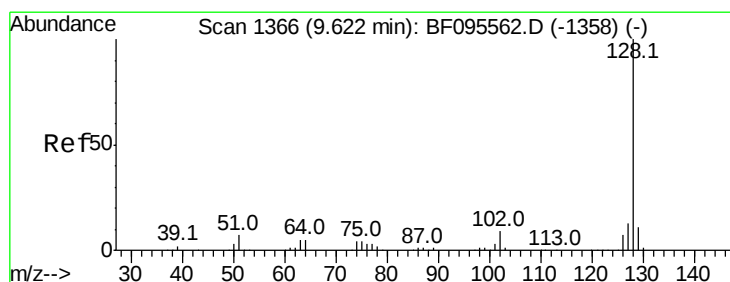
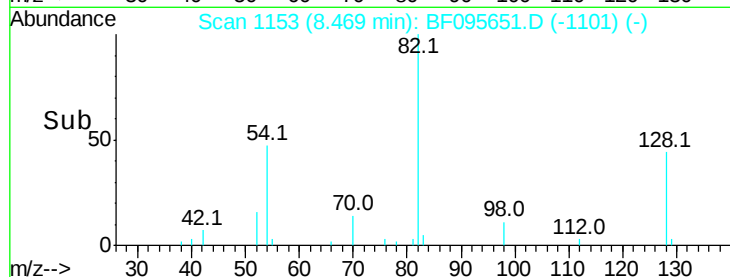
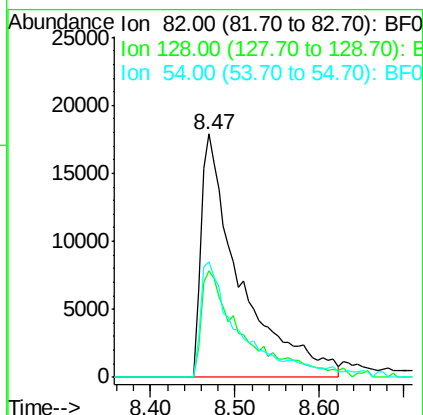
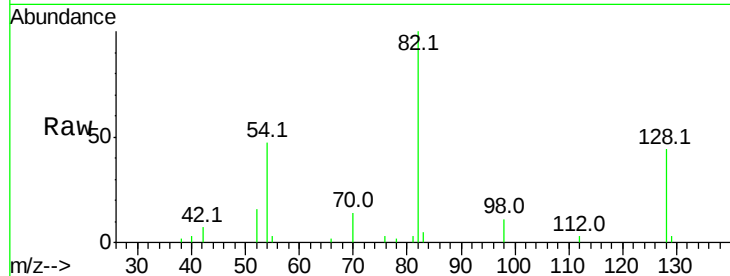




#23
 Nitrobenzene-d5
 Concen: 11.42 ng
 RT: 8.47 min Scan# 1153
 Delta R.T. 0.01 min
 Lab File: BF095651.D
 Acq: 3 Jun 2017 00:22

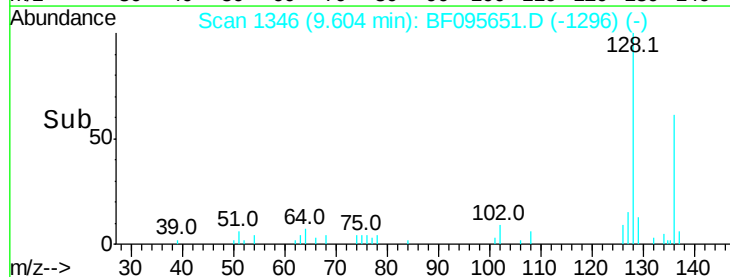
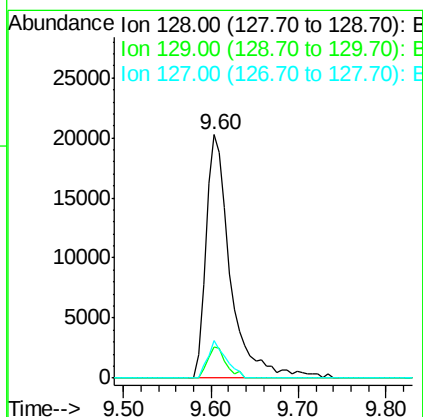
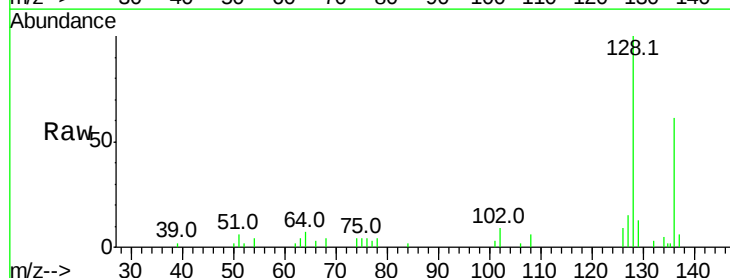
Instrument :
 BNA_F
 ClientSampled :

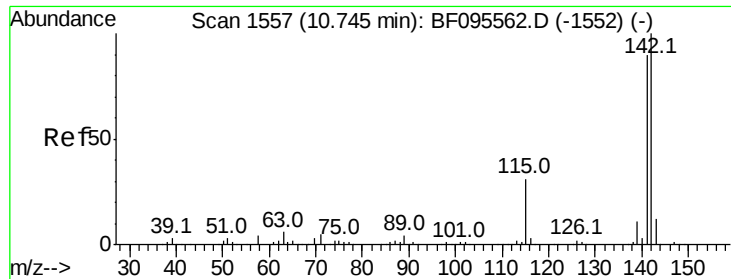
Tot Ion: 82 Resp: 57276
 Ion Ratio Lower Upper
 82 100
 128 43.6 34.0 51.0
 54 47.4 42.2 63.2



#31
 Naphthalene
 Concen: 2.48 ng
 RT: 9.60 min Scan# 1346
 Delta R.T. -0.01 min
 Lab File: BF095651.D
 Acq: 3 Jun 2017 00:22

Tgt Ion:128 Resp: 39369
 Ion Ratio Lower Upper
 128 100
 129 13.0 9.0 13.6
 127 15.5 10.8 16.2

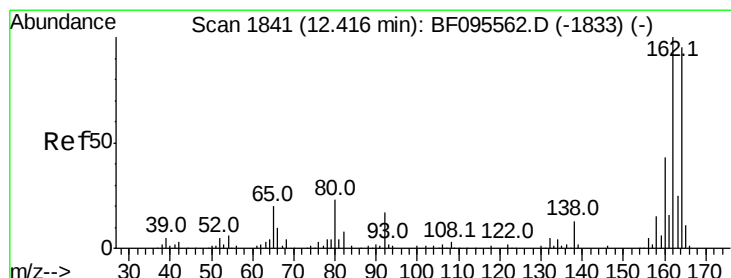
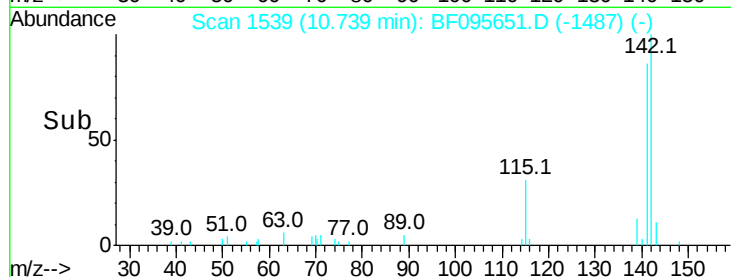
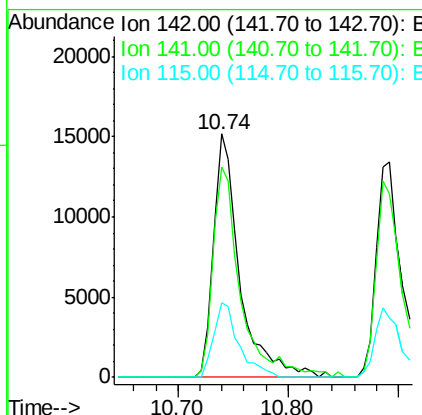
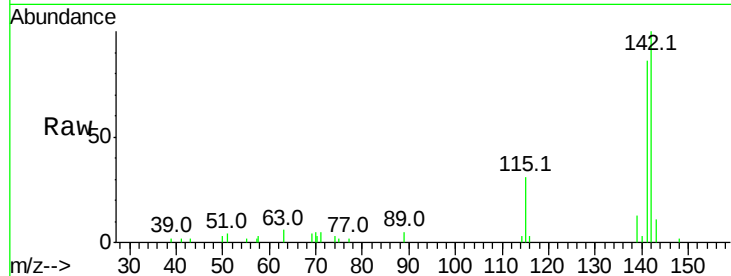




#37
2-Methylnaphthalene
Concen: 2.40 ng
RT: 10.74 min Scan# 1539
Delta R.T. 0.01 min
Lab File: BF095651.D
Acq: 3 Jun 2017 00:22

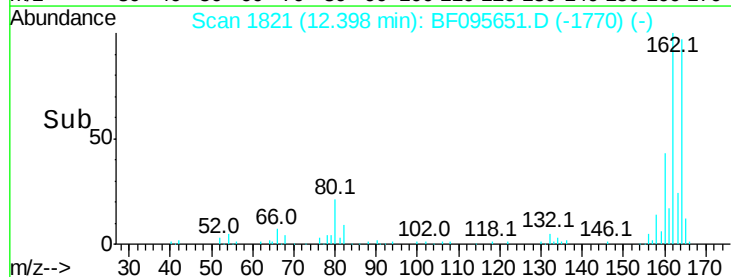
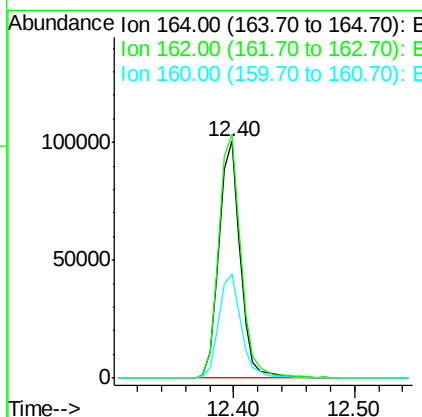
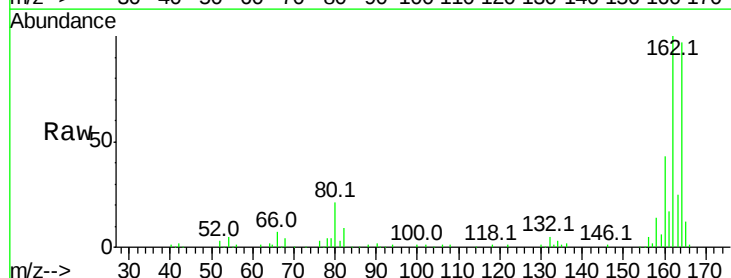
Instrument :
BNA_F
ClientSampleId :

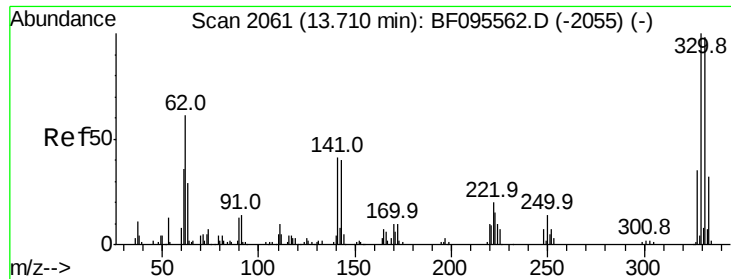
Tot Ion:142 Resp: 25023
Ion Ratio Lower Upper
142 100
141 86.4 71.3 106.9
115 30.6 27.1 40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.40 min Scan# 1821
Delta R.T. 0.00 min
Lab File: BF095651.D
Acq: 3 Jun 2017 00:22

Tgt Ion:164 Resp: 121886
Ion Ratio Lower Upper
164 100
162 102.9 82.6 123.8
160 44.1 36.2 54.2

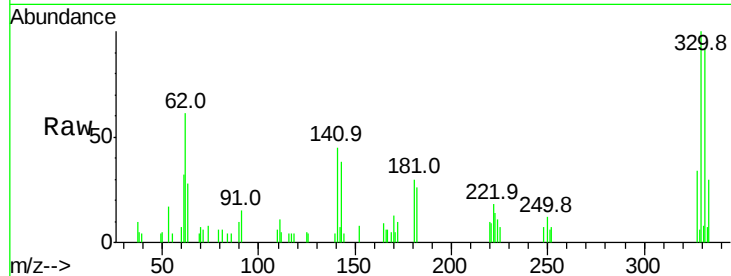




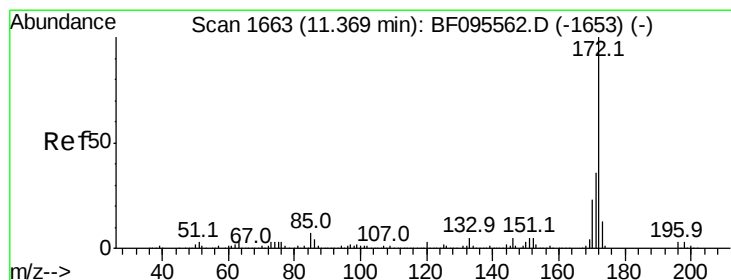
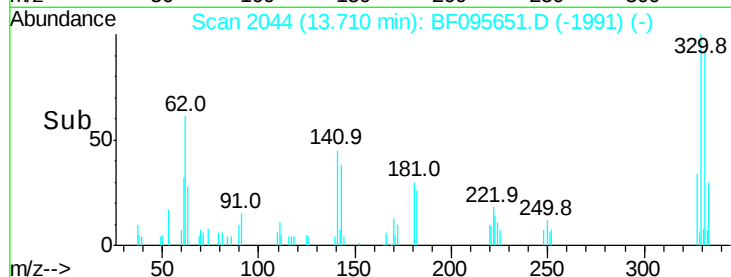
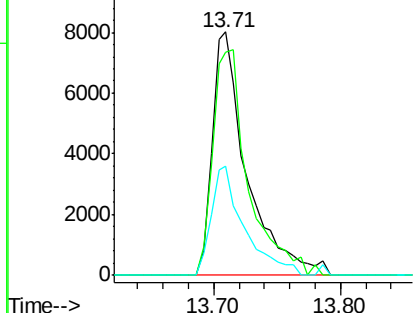
#41
 2,4,6-Tribromophenol
 Concen: 15.30 ng
 RT: 13.71 min Scan# 2044
 Delta R.T. 0.01 min
 Lab File: BF095651.D
 Acq: 3 Jun 2017 00:22

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 15277
 Ion Ratio Lower Upper
 330 100
 332 94.8 76.6 115.0
 141 42.7 31.4 47.2

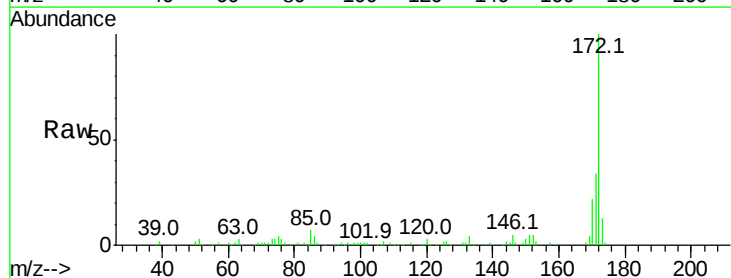


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

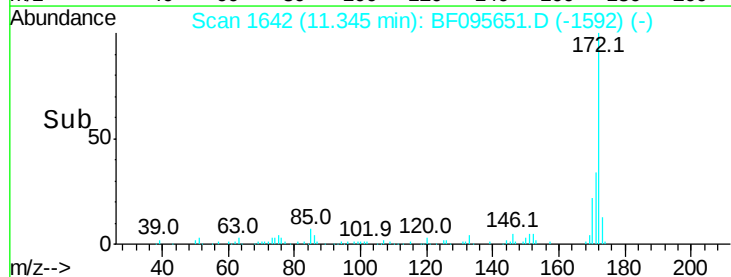
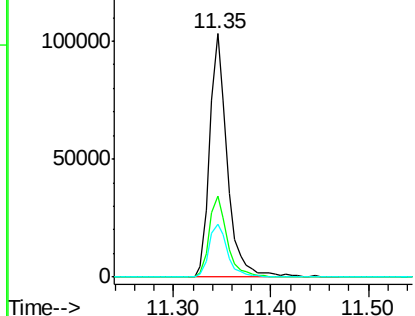


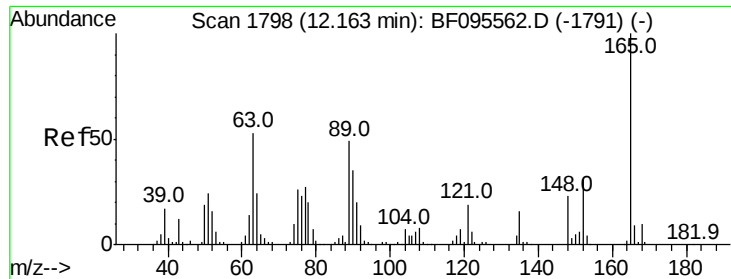
#44
 2-Fluorobiphenyl
 Concen: 15.30 ng
 RT: 11.35 min Scan# 1642
 Delta R.T. -0.01 min
 Lab File: BF095651.D
 Acq: 3 Jun 2017 00:22

Tgt Ion:172 Resp: 129537
 Ion Ratio Lower Upper
 172 100
 171 33.5 29.6 44.4
 170 21.9 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

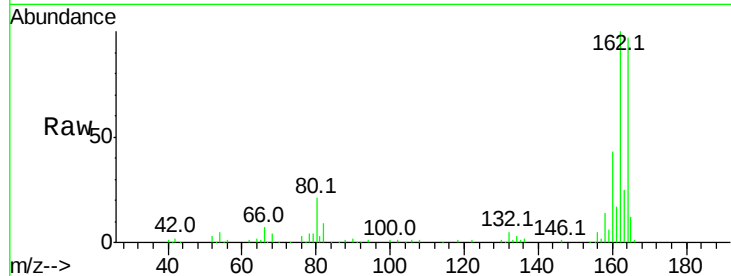




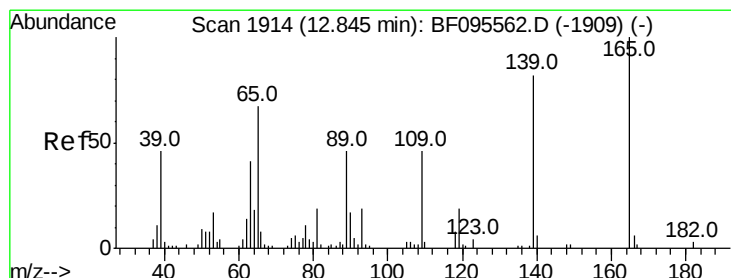
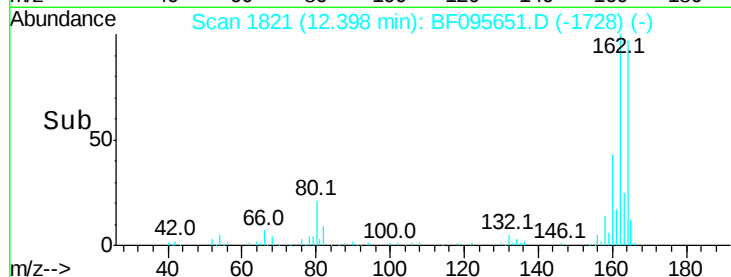
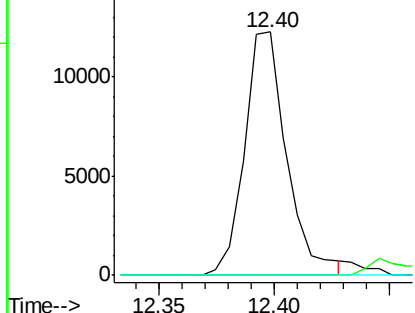
#50
 2,6-Dinitrotoluene
 Concen: 7.66 ng
 RT: 12.40 min Scan# 1821
 Delta R.T. 0.25 min
 Lab File: BF095651.D
 Acq: 3 Jun 2017 00:22

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:165 Resp: 15628
 Ion Ratio Lower Upper
 165 100
 63 0.0 34.3 51.5#
 89 0.0 37.1 55.7#

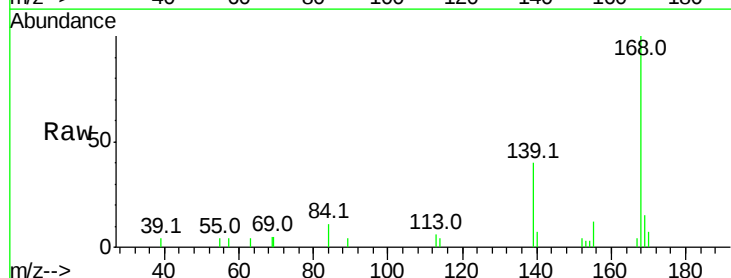


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

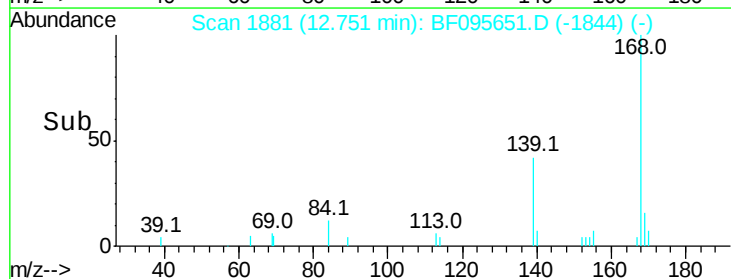
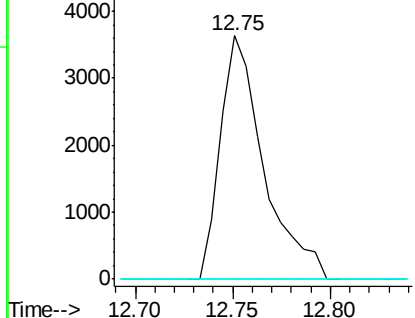


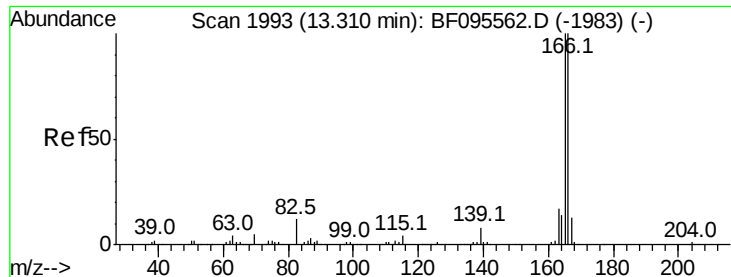
#55
 4-Nitrophenol
 Concen: 4.26 ng
 RT: 12.75 min Scan# 1881
 Delta R.T. -0.08 min
 Lab File: BF095651.D
 Acq: 3 Jun 2017 00:22

Tgt Ion:139 Resp: 5600
 Ion Ratio Lower Upper
 139 100
 109 0.0 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

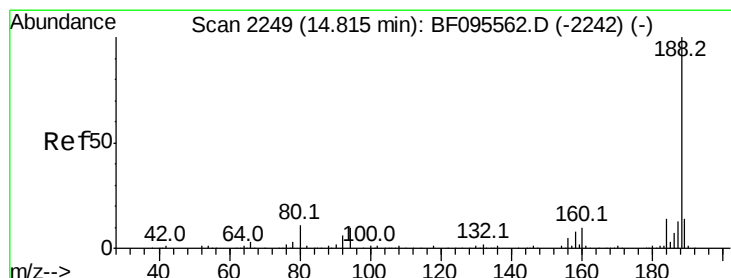
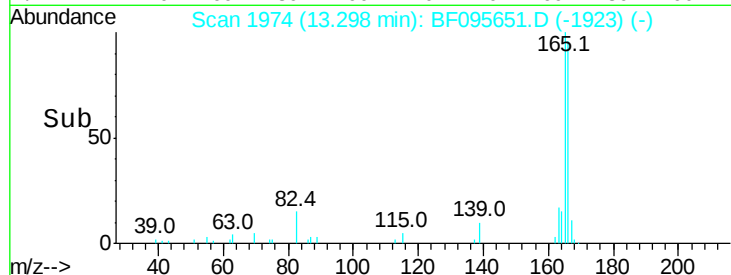
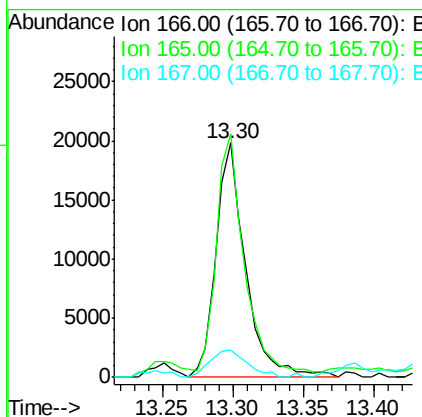
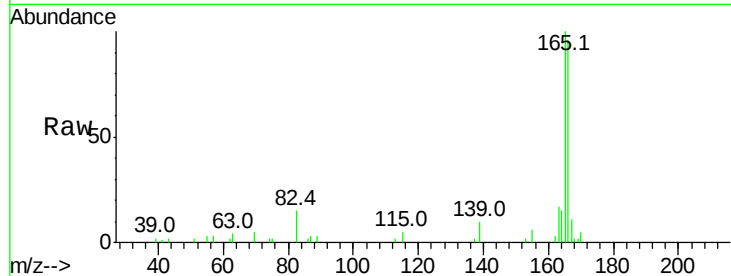




#57
 Fluorene
 Concen: 3.10 ng
 RT: 13.30 min Scan# 1974
 Delta R.T. 0.00 min
 Lab File: BF095651.D
 Acq: 3 Jun 2017 00:22

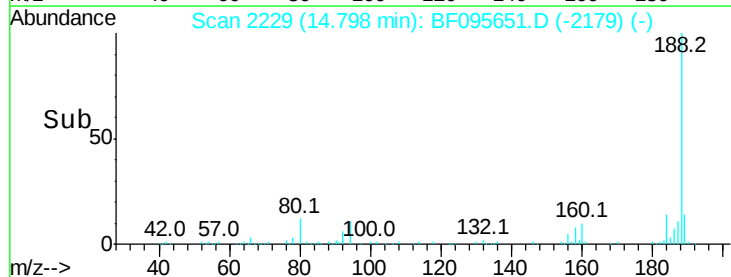
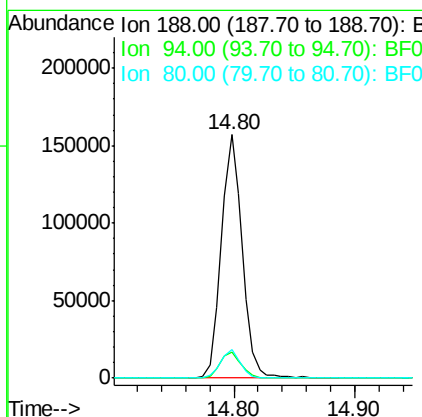
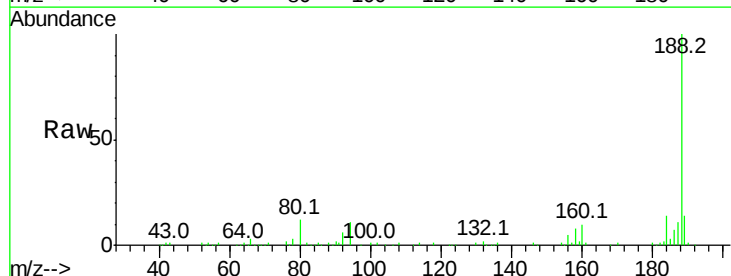
Instrument :
 BNA_F
 ClientSampled :

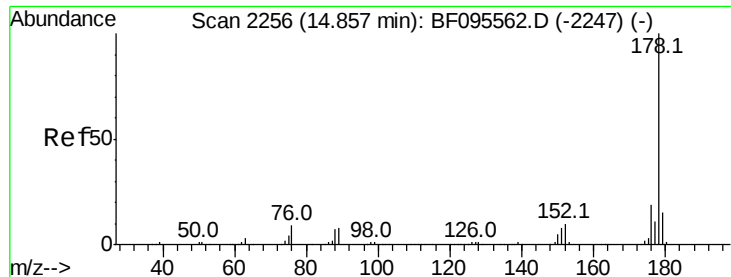
Tot Ion:166 Resp: 28929
 Ion Ratio Lower Upper
 166 100
 165 103.9 78.8 118.2
 167 11.5 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.80 min Scan# 2229
 Delta R.T. -0.01 min
 Lab File: BF095651.D
 Acq: 3 Jun 2017 00:22

Tgt Ion:188 Resp: 186960
 Ion Ratio Lower Upper
 188 100
 94 10.9 9.4 14.2
 80 11.6 10.2 15.2





#70

Phenanthrene

Concen: 14.60 ng

RT: 14.84 min Scan# 2236

Delta R.T. 0.00 min

Lab File: BF095651.D

Acq: 3 Jun 2017 00:22

Instrument :

BNA_F

ClientSampleId :

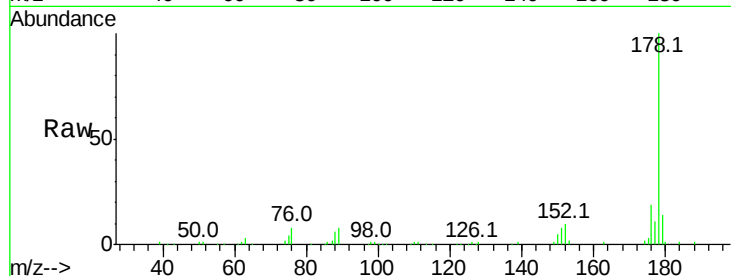
Tot Ion:178 Resp: 156790

Ion Ratio Lower Upper

178 100

176 18.7 16.2 24.4

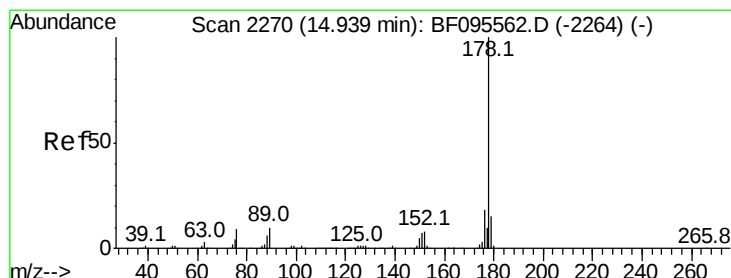
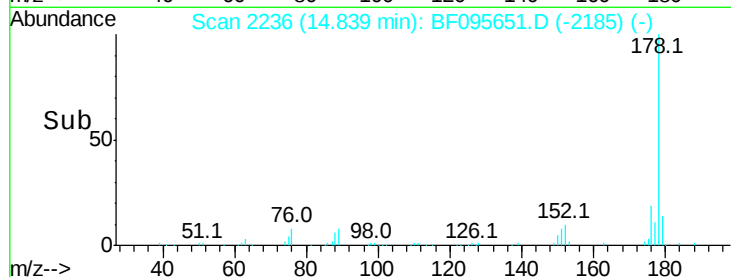
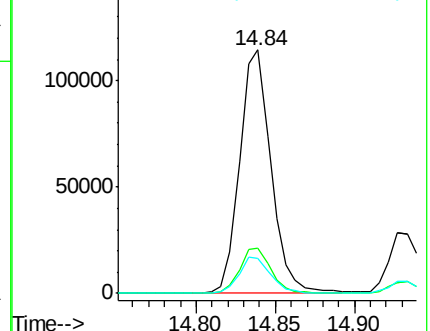
179 14.5 12.6 19.0



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: 3.80 ng

RT: 14.93 min Scan# 2251

Delta R.T. 0.00 min

Lab File: BF095651.D

Acq: 3 Jun 2017 00:22

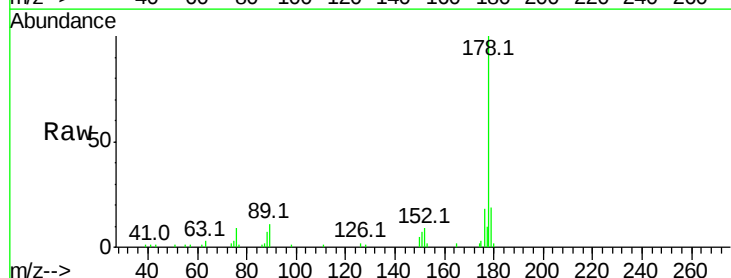
Tgt Ion:178 Resp: 41672

Ion Ratio Lower Upper

178 100

176 17.9 15.8 23.8

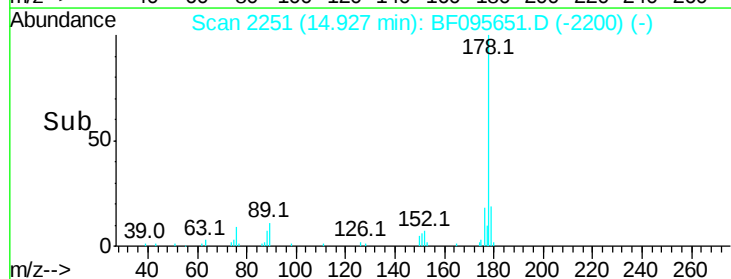
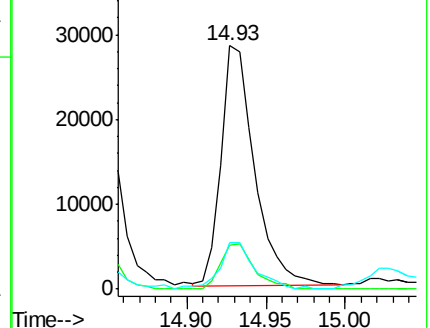
179 18.9 12.7 19.1

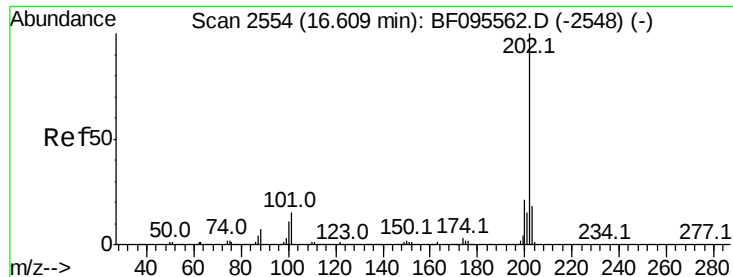


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 13.58 ng

RT: 16.60 min Scan# 2535

Delta R.T. -0.01 min

Lab File: BF095651.D

Acq: 3 Jun 2017 00:22

Instrument :

BNA_F

ClientSampleId :

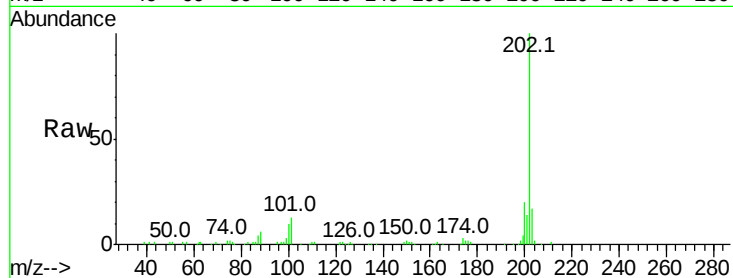
Tot Ion:202 Resp: 149590

Ion Ratio Lower Upper

202 100

101 13.3 0.0 33.2

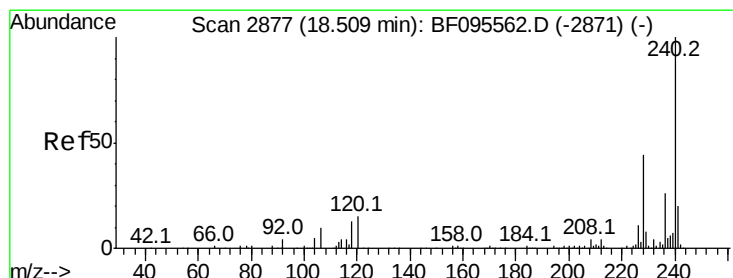
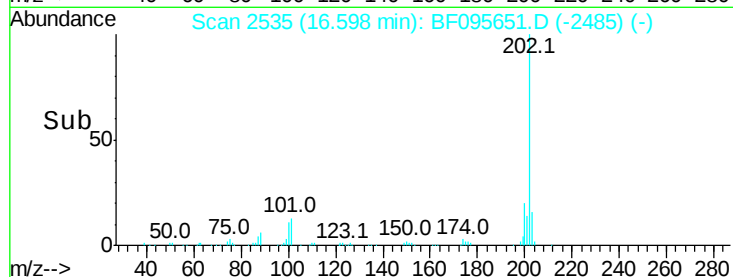
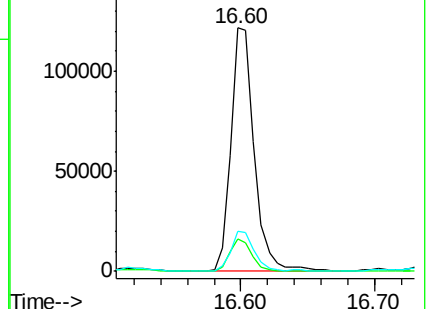
203 16.6 0.0 38.1



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: 18.50 min Scan# 2858

Delta R.T. 0.00 min

Lab File: BF095651.D

Acq: 3 Jun 2017 00:22

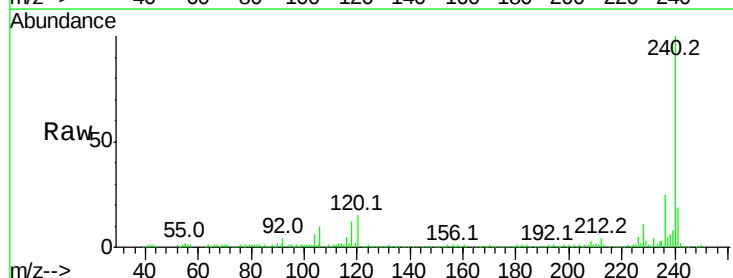
Tgt Ion:240 Resp: 170376

Ion Ratio Lower Upper

240 100

120 14.8 5.8 8.8#

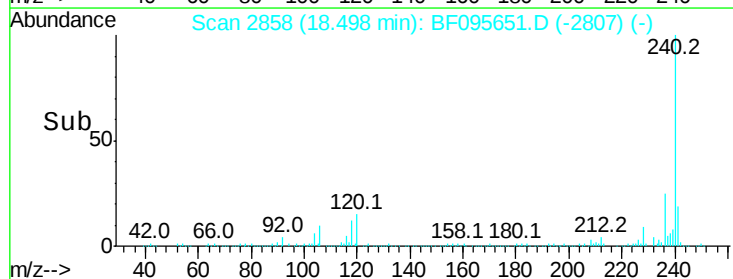
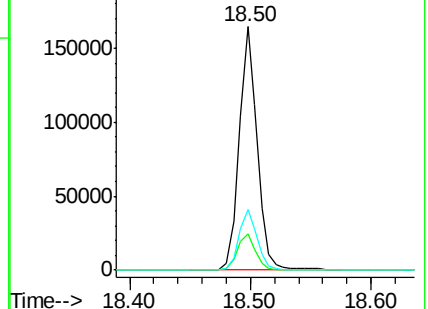
236 25.1 20.5 30.7

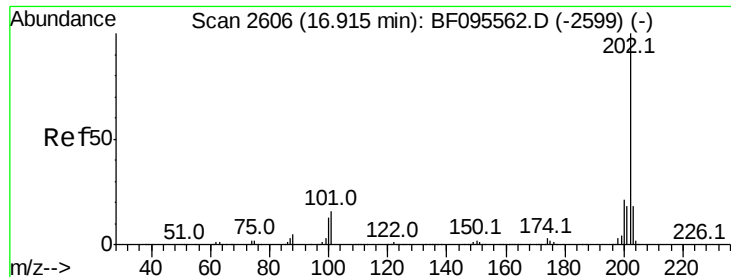


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

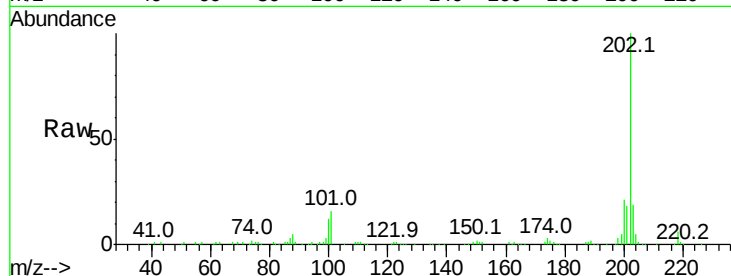




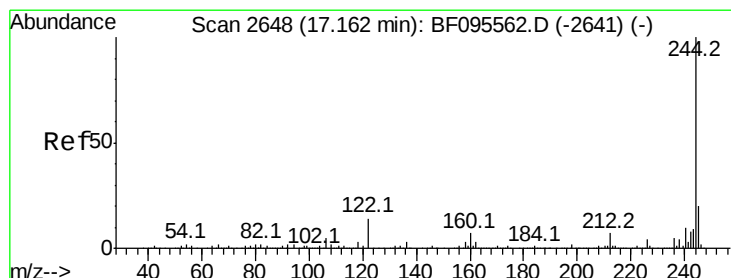
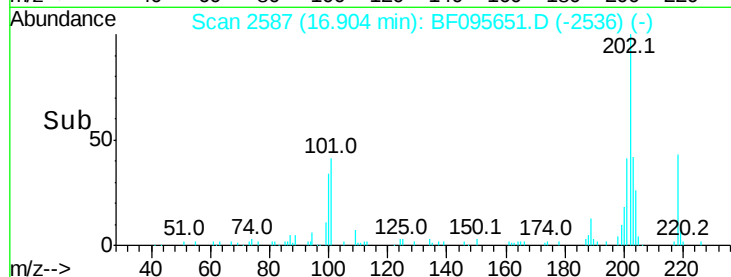
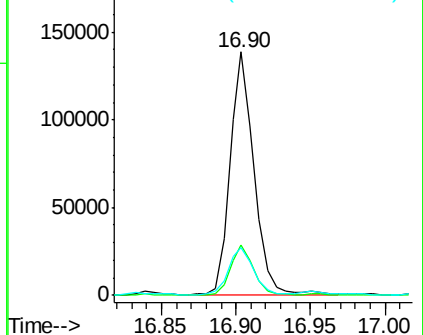
#77
Pvrene
Concen: 12.25 ng
RT: 16.90 min Scan# 2587
Delta R.T. 0.00 min
Lab File: BF095651.D
Acq: 3 Jun 2017 00:22

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 156044
Ion Ratio Lower Upper
202 100
200 20.7 17.6 26.4
203 19.4 14.4 21.6

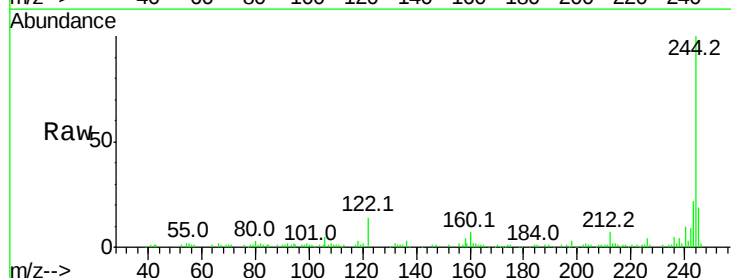


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

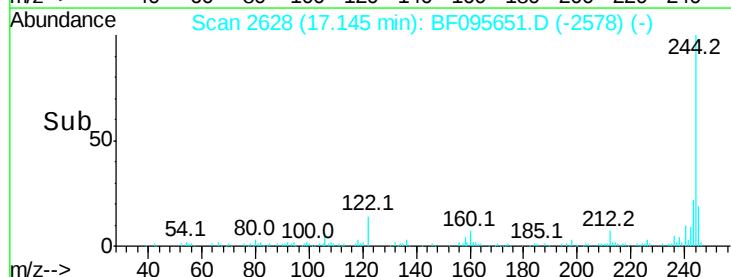
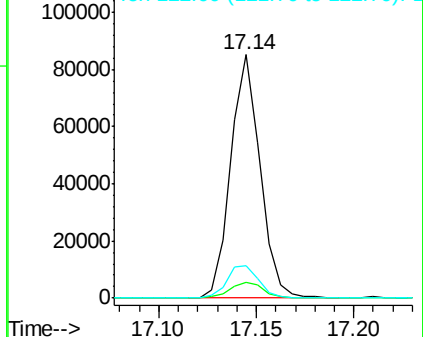


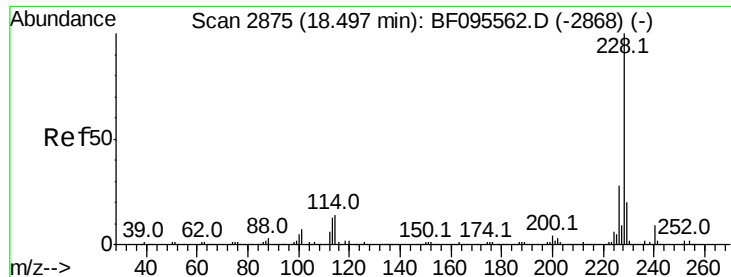
#78
Terphenyl-d14
Concen: 11.48 ng
RT: 17.14 min Scan# 2628
Delta R.T. -0.01 min
Lab File: BF095651.D
Acq: 3 Jun 2017 00:22

Tgt Ion:244 Resp: 88822
Ion Ratio Lower Upper
244 100
212 6.7 6.0 9.0
122 13.5 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: 5.55 ng

RT: 18.53 min Scan# 2864

Delta R.T. 0.05 min

Lab File: BF095651.D

Acq: 3 Jun 2017 00:22

Instrument :

BNA_F

ClientSampleId :

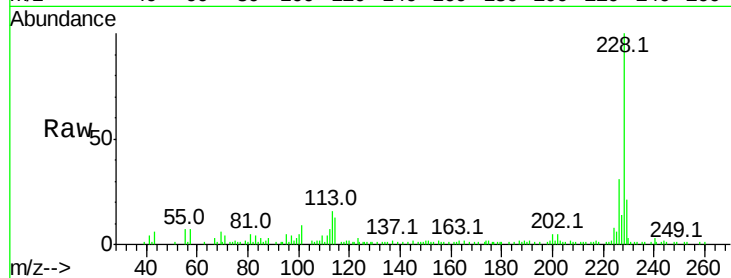
Tot Ion:228 Resp: 55015

Ion Ratio Lower Upper

228 100

226 31.5 22.6 33.8

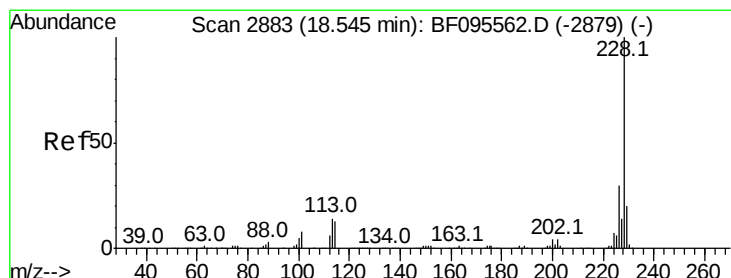
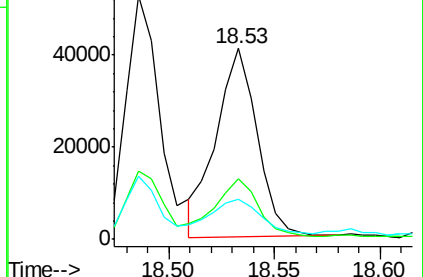
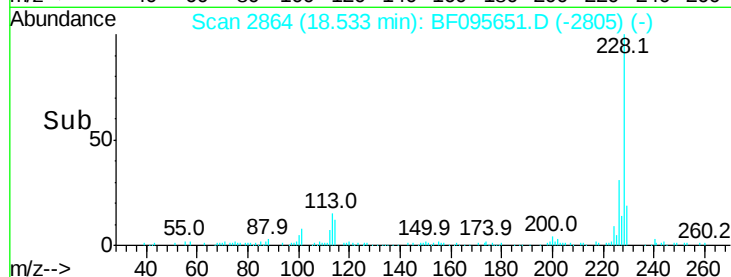
229 21.3 16.3 24.5



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: 5.74 ng

RT: 18.53 min Scan# 2864

Delta R.T. 0.00 min

Lab File: BF095651.D

Acq: 3 Jun 2017 00:22

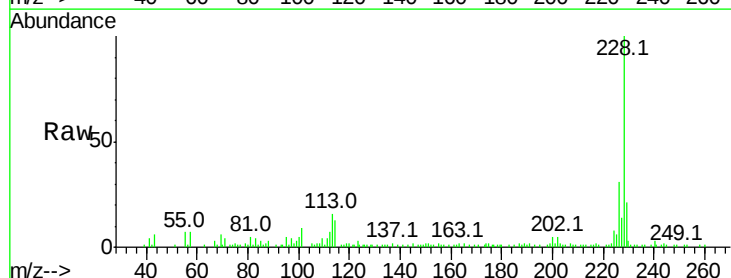
Tgt Ion:228 Resp: 55015

Ion Ratio Lower Upper

228 100

226 31.5 24.9 37.3

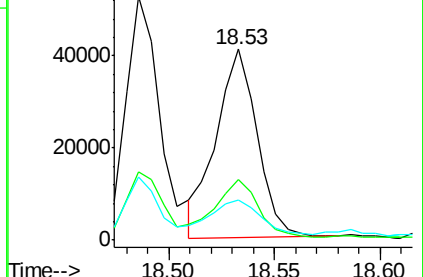
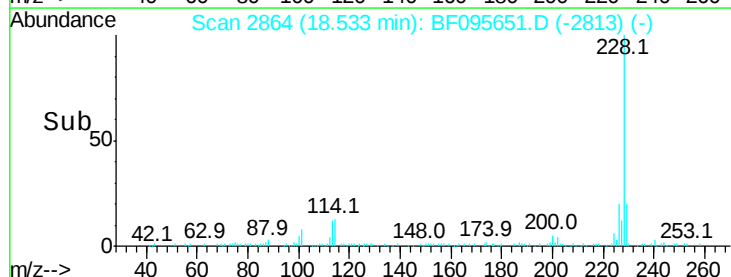
229 21.3 15.8 23.6

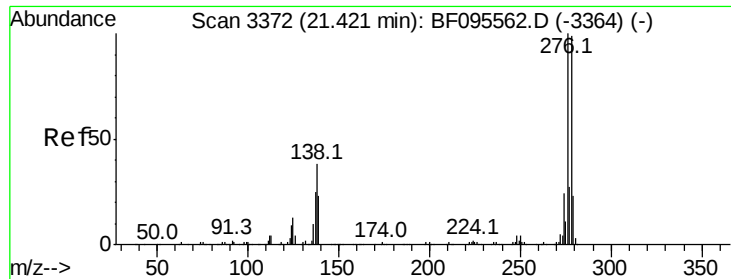


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.49 ng

RT: 21.43 min Scan# 3357

Delta R.T. 0.02 min

Lab File: BF095651.D

Acq: 3 Jun 2017 00:22

Instrument :

BNA_F

ClientSampleId :

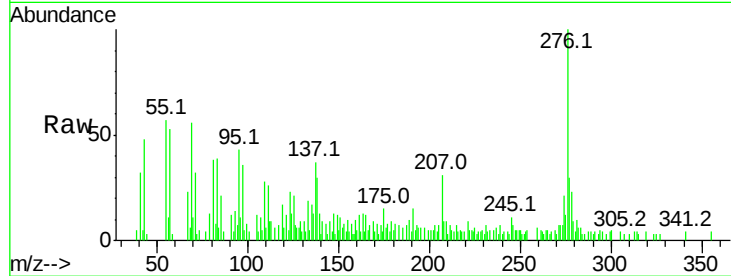
Tot Ion:276 Resp: 19413

Ion Ratio Lower Upper

276 100

138 28.8 27.8 41.6

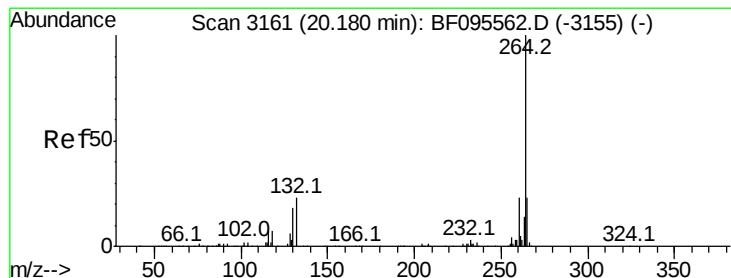
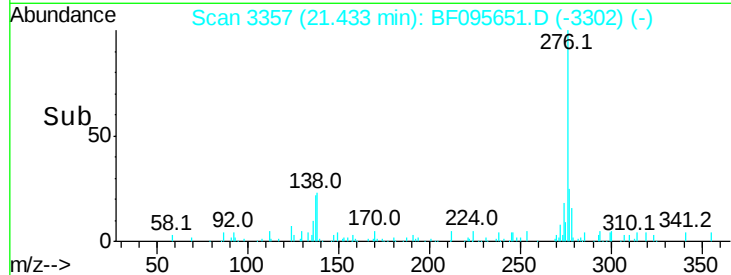
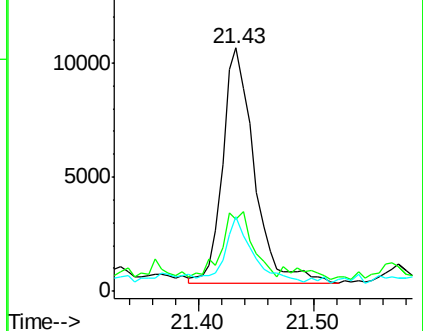
277 25.1 20.2 30.4



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

Perylene-d12

Concen: 20.00 ng

RT: 20.17 min Scan# 3143

Delta R.T. 0.01 min

Lab File: BF095651.D

Acq: 3 Jun 2017 00:22

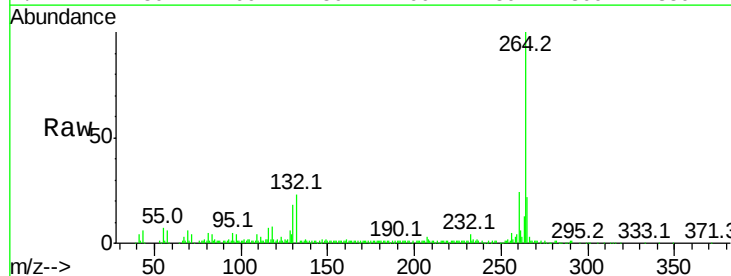
Tgt Ion:264 Resp: 120323

Ion Ratio Lower Upper

264 100

260 23.9 19.5 29.3

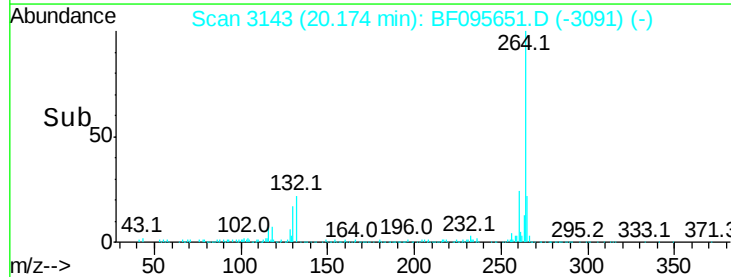
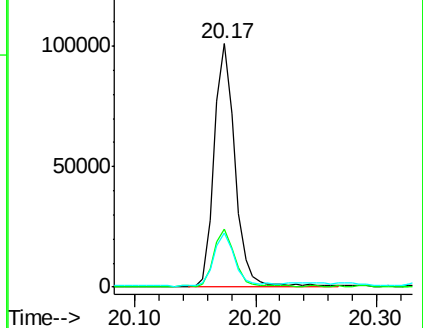
265 22.3 17.2 25.8

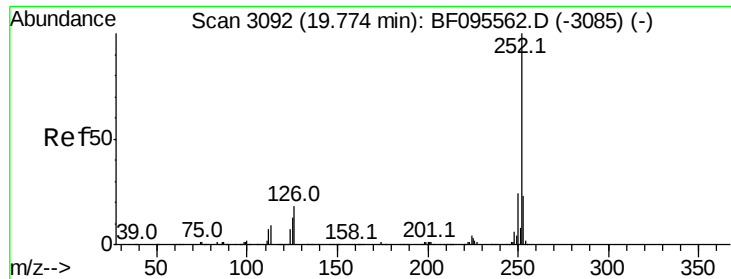


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 8.72 ng

RT: 19.77 min Scan# 3075

Delta R.T. 0.01 min

Lab File: BF095651.D

Acq: 3 Jun 2017 00:22

Instrument :

BNA_F

ClientSampleId :

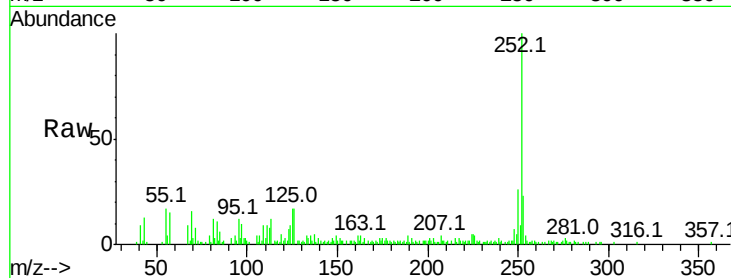
Tot Ion:252 Resp: 64834

Ion Ratio Lower Upper

252 100

253 22.7 18.1 27.1

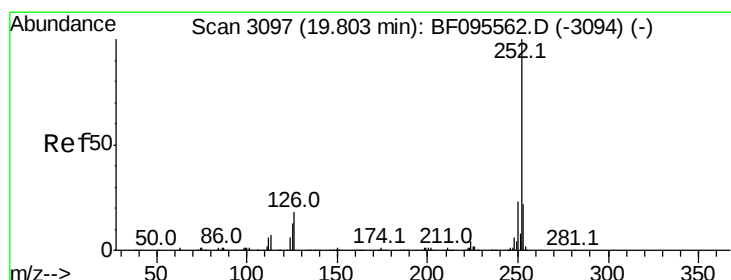
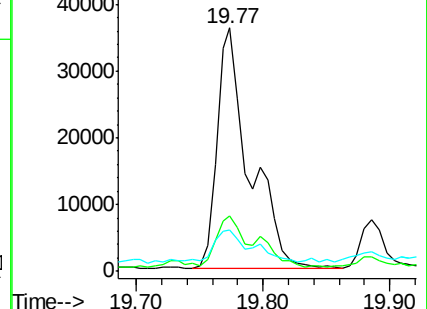
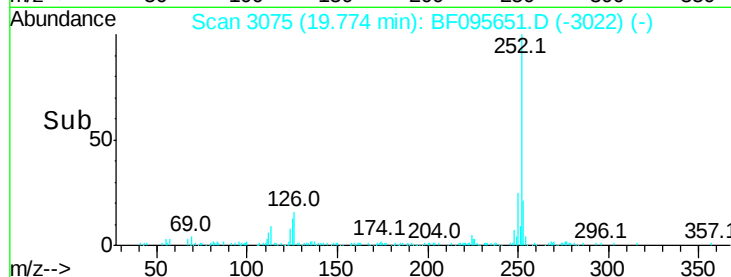
125 16.8 9.8 14.8#



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: 9.04 ng

RT: 19.77 min Scan# 3075

Delta R.T. -0.02 min

Lab File: BF095651.D

Acq: 3 Jun 2017 00:22

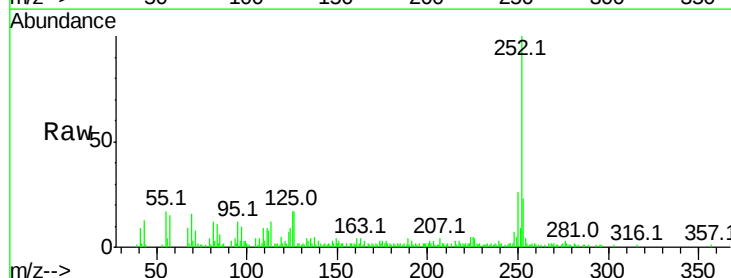
Tgt Ion:252 Resp: 64834

Ion Ratio Lower Upper

252 100

253 22.7 18.4 27.6

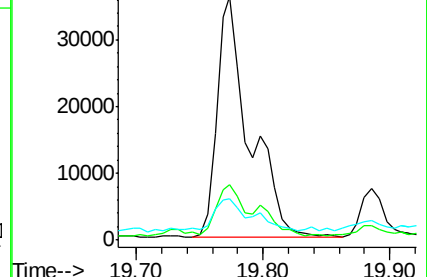
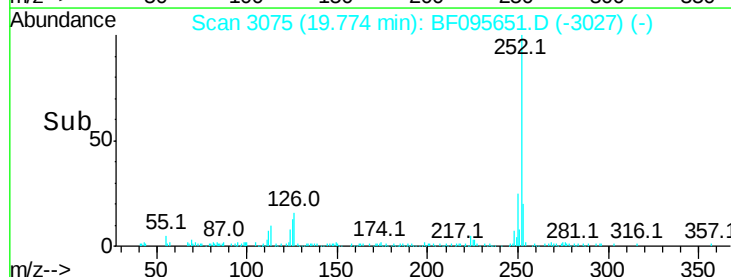
125 16.8 13.1 19.7

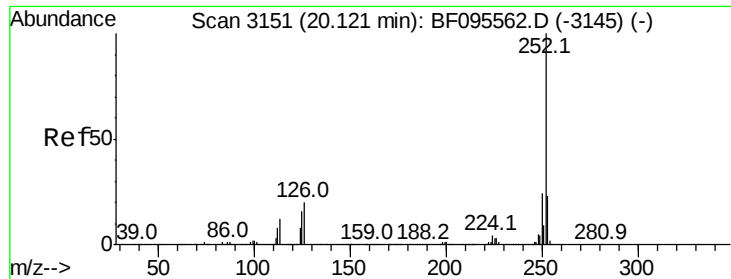


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

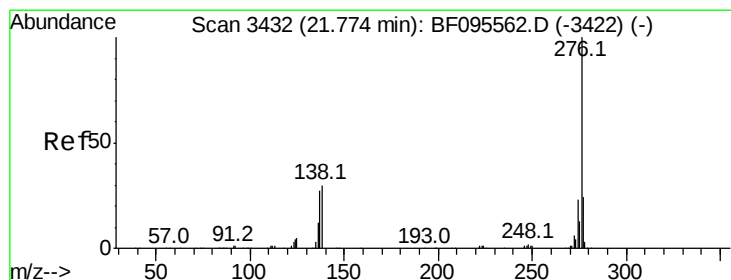
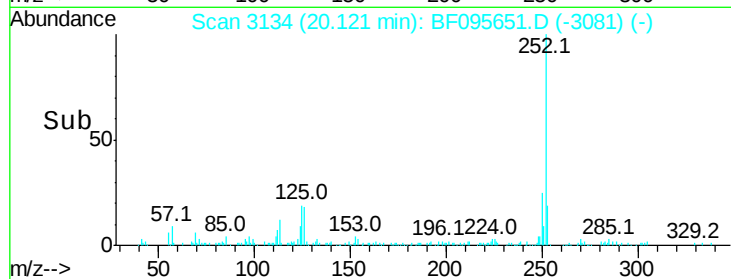
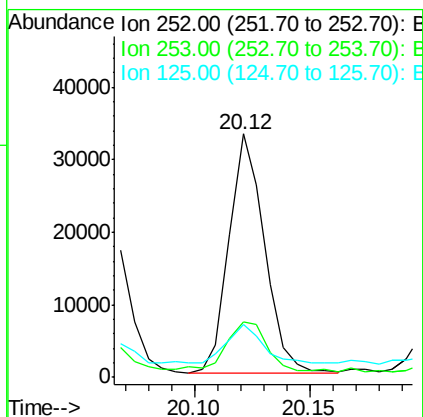
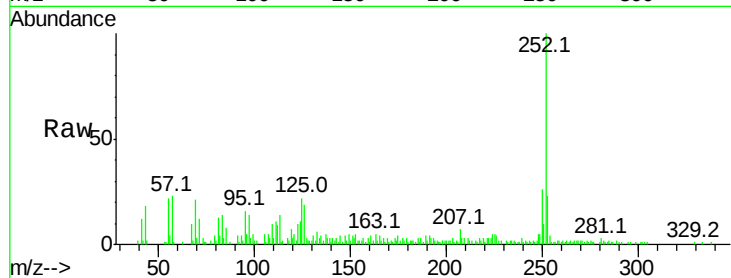




#89
Benzo(a)pyrene
Concen: 5.18 ng
RT: 20.12 min Scan# 3134
Delta R.T. 0.01 min
Lab File: BF095651.D
Acq: 3 Jun 2017 00:22

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 35507
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 21.9 11.0 16.4#



#91
Benzo(g,h,i)perylene
Concen: 3.64 ng
RT: 21.80 min Scan# 3419
Delta R.T. 0.04 min
Lab File: BF095651.D
Acq: 3 Jun 2017 00:22

Tgt Ion:276 Resp: 20247
Ion Ratio Lower Upper
276 100
277 29.0 18.6 28.0#
138 32.5 25.4 38.0

