

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050117\
 Data File : BF094748.D
 Acq On : 1 May 2017 13:47
 Operator : SJ/MA
 Sample : I2902-04 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 02 01:36:57 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.76	152	107429	20.00	ng	0.00
21) Naphthalene-d8	7.25	136	400182	20.00	ng	0.00
38) Acenaphthene-d10	9.39	164	186292	20.00	ng	0.00
63) Phenanthrene-d10	11.21	188	322961	20.00	ng	0.00
75) Chrysene-d12	14.47	240	262112	20.00	ng	0.00
86) Perylene-d12	16.09	264	191050	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.33	112	37573	5.80	ng	0.03
7) Phenol-d6	5.40	99	31223	4.09	ng	0.00
23) Nitrobenzene-d5	6.41	82	74850	11.55	ng	0.00
41) 2,4,6-Tribromophenol	10.37	330	20336	13.96	ng	0.00
44) 2-Fluorobiphenyl	8.57	172	159585	12.60	ng	-0.01
78) Terphenyl-d14	13.18	244	129506	13.21	ng	-0.01

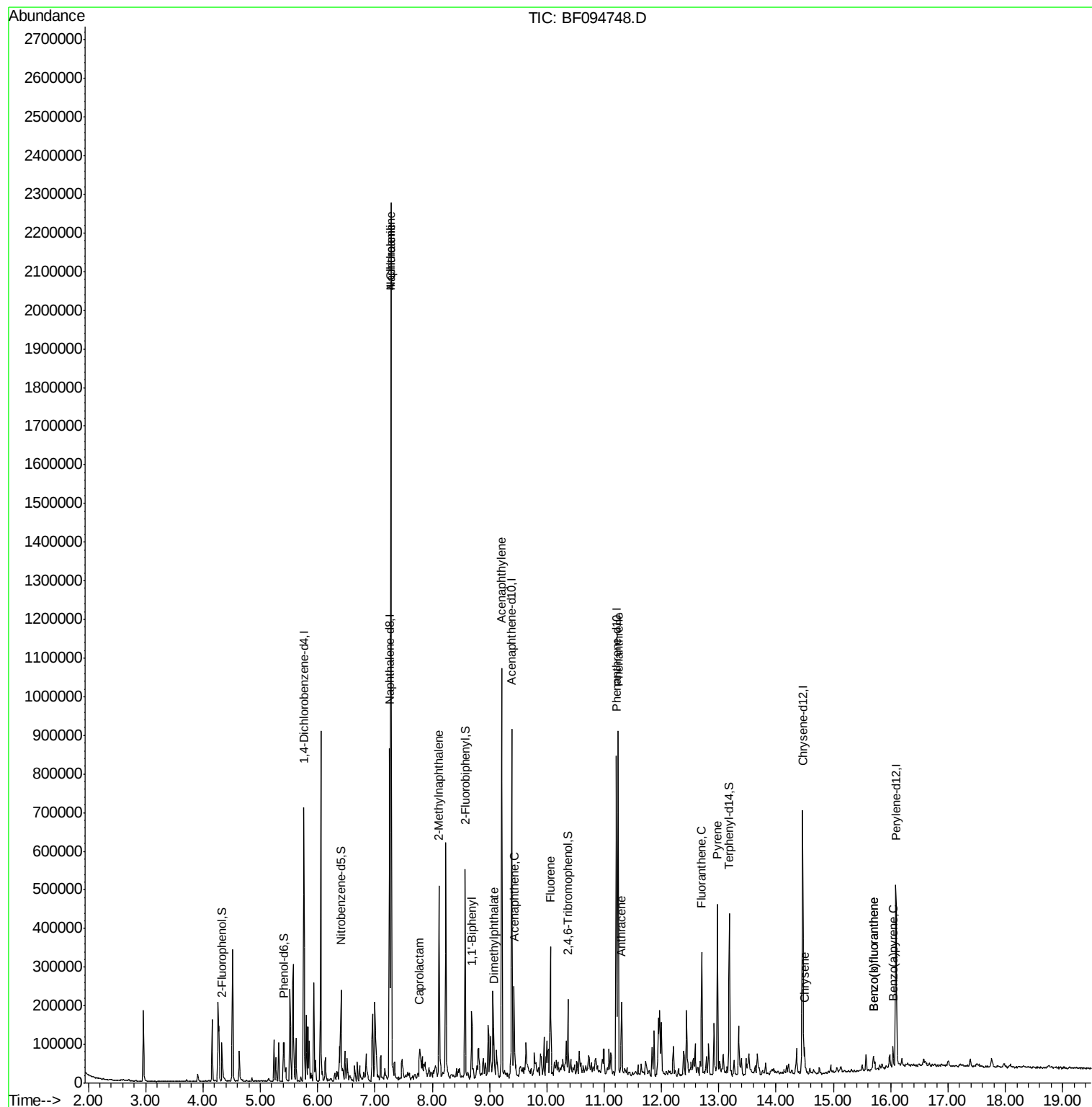
Target Compounds				Qvalue		
31) Naphthalene	7.28	128	1047552	54.45	ng	100
33) 4-Chloroaniline	7.28	127	141065	17.63	ng	# 33
35) Caprolactam	7.78	113	9649	5.54	ng	# 91
37) 2-Methylnaphthalene	8.12	142	145343	11.04	ng	98
45) 1,1'-Biphenyl	8.69	154	57102	3.75	ng	95
48) Acenaphthylene	9.21	152	467128	24.76	ng	100
49) Dimethylphthalate	9.08	163	50138	3.61	ng	96
51) Acenaphthene	9.42	154	48500	4.29	ng	95
57) Fluorene	10.07	166	101162	7.91	ng	99
70) Phenanthrene	11.24	178	355468	19.55	ng	97
71) Anthracene	11.31	178	83471	4.44	ng	98
74) Fluoranthene	12.70	202	143683	7.62	ng	99
77) Pvrene	12.98	202	183576	10.02	ng	97
82) Chrysene	14.49	228	29073	2.09	ng	98
87) Benzo(b)fluoranthene	15.69	252	26183	2.24	ng	# 96
88) Benzo(k)fluoranthene	15.69	252	26183	2.37	ng	99
89) Benzo(a)pvrene	16.04	252	23029	2.12	ng	# 96

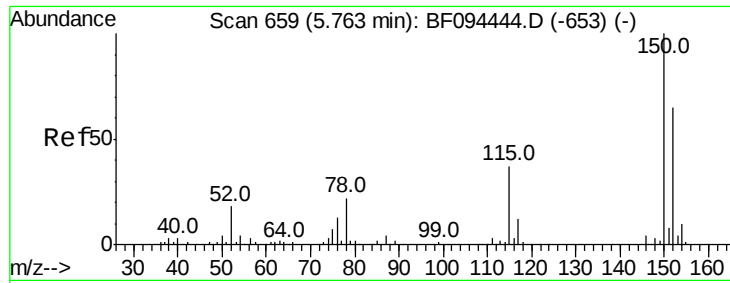
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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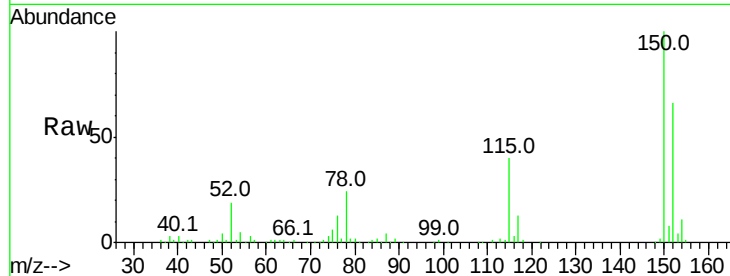


#1

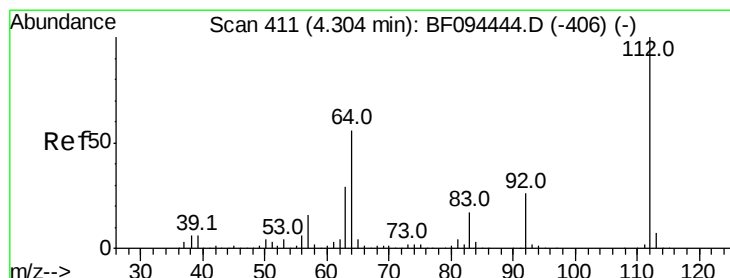
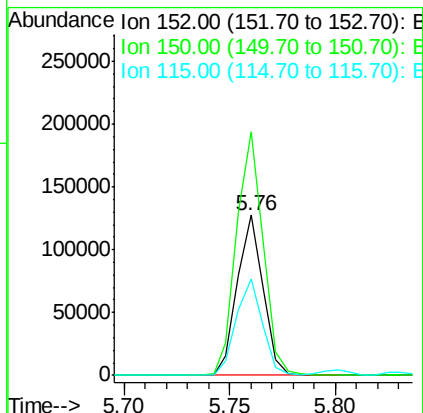
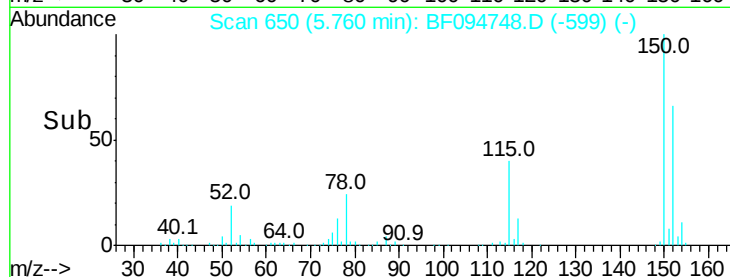
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.76 min Scan# 650
Delta R.T. -0.00 min
Lab File: BF094748.D
Acq: 1 May 2017 13:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 107429
Ion Ratio Lower Upper
152 100
150 152.2 126.2 189.2
115 60.3 52.2 78.2



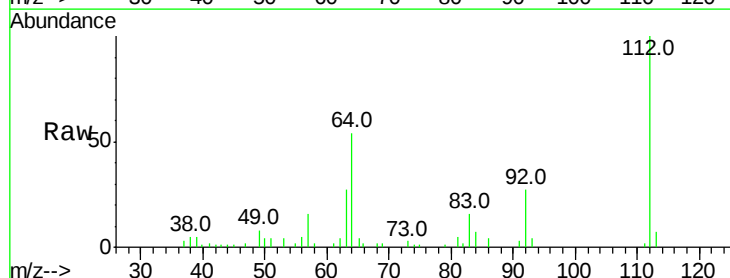
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



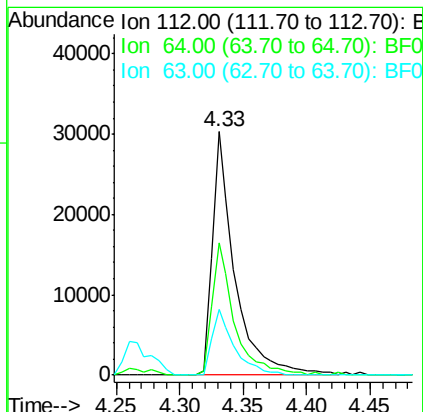
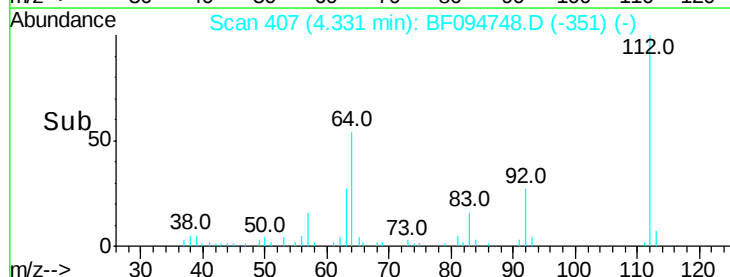
#5

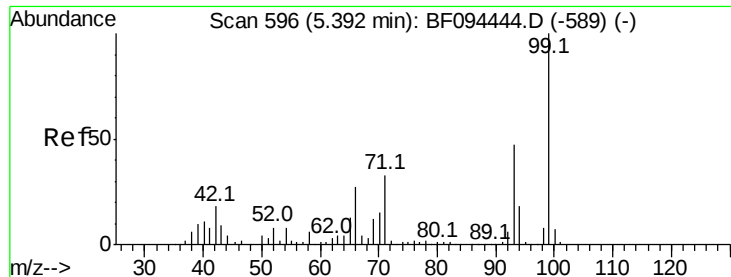
2-Fluorophenol
Concen: 5.80 ng
RT: 4.33 min Scan# 407
Delta R.T. 0.03 min
Lab File: BF094748.D
Acq: 1 May 2017 13:47

Tgt Ion:112 Resp: 37573
Ion Ratio Lower Upper
112 100
64 54.1 46.0 69.0
63 27.2 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: 4.09 ng

RT: 5.40 min Scan# 589

Delta R.T. 0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

BNA_F

ClientSampleId :

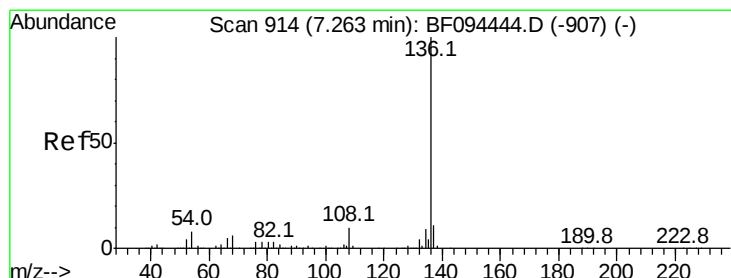
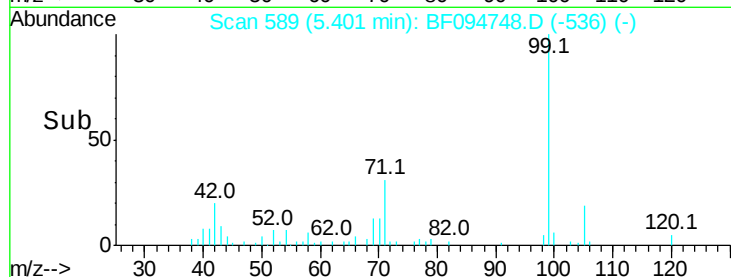
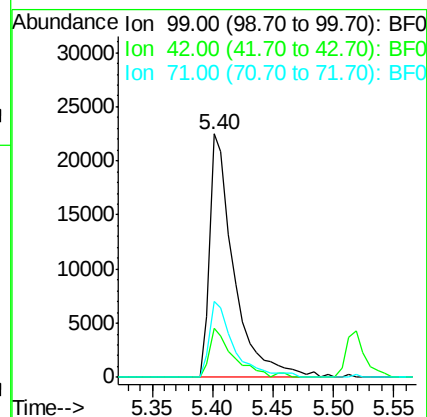
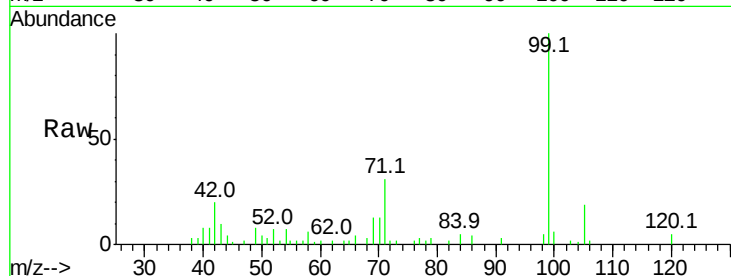
Tot Ion: 99 Resp: 31223

Ion Ratio Lower Upper

99 100

42 20.3 13.5 20.3#

71 31.0 24.5 36.7



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.25 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Tgt Ion: 136 Resp: 400182

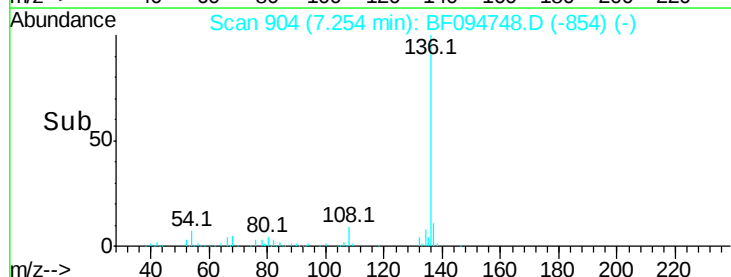
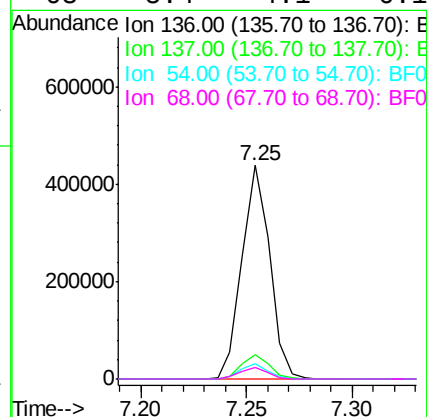
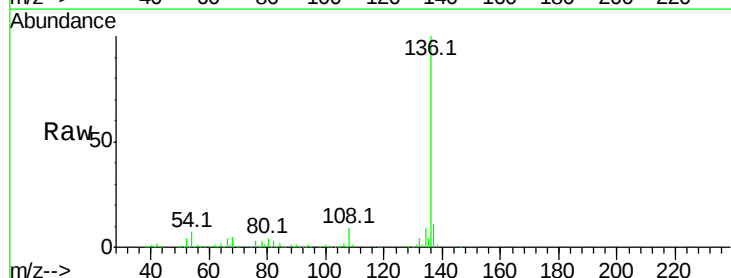
Ion Ratio Lower Upper

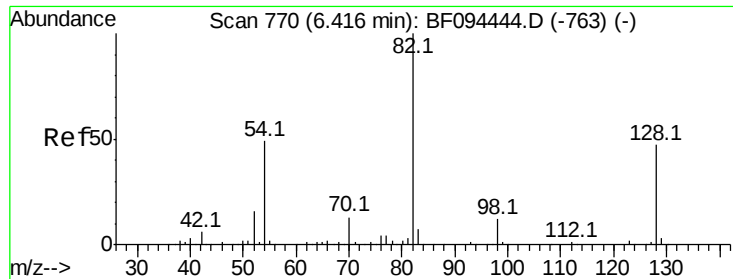
136 100

137 11.1 8.5 12.7

54 7.1 4.9 7.3

68 5.4 4.1 6.1

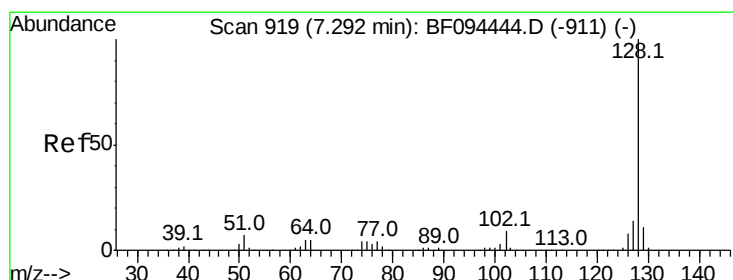
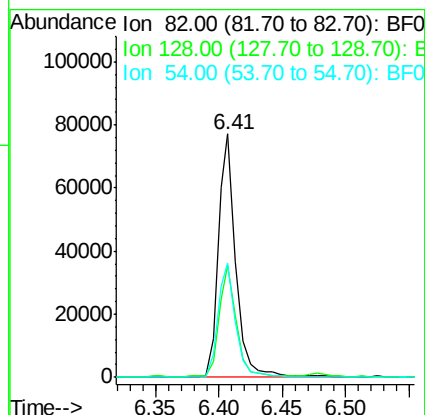
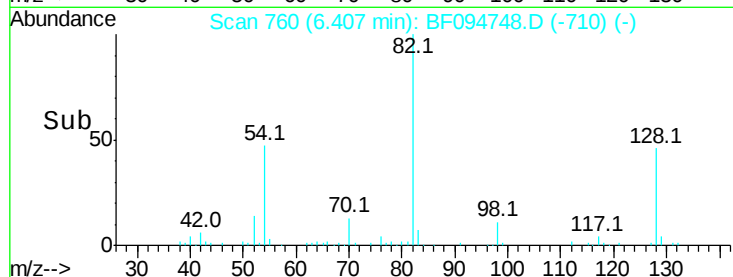
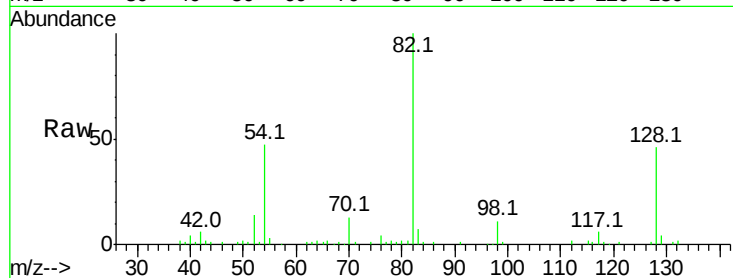




#23
 Nitrobenzene-d5
 Concen: 11.55 ng
 RT: 6.41 min Scan# 760
 Delta R.T. -0.01 min
 Lab File: BF094748.D
 Acq: 1 May 2017 13:47

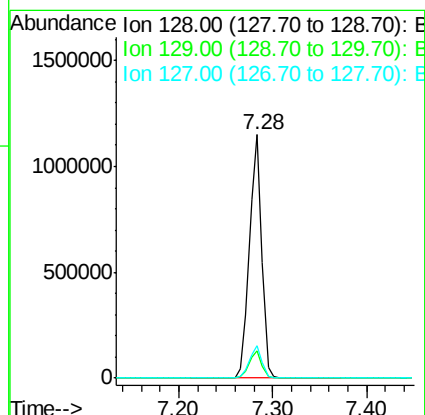
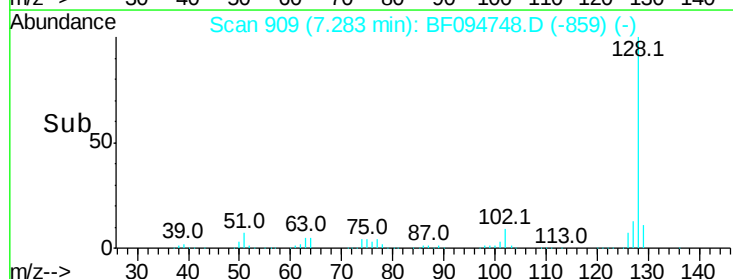
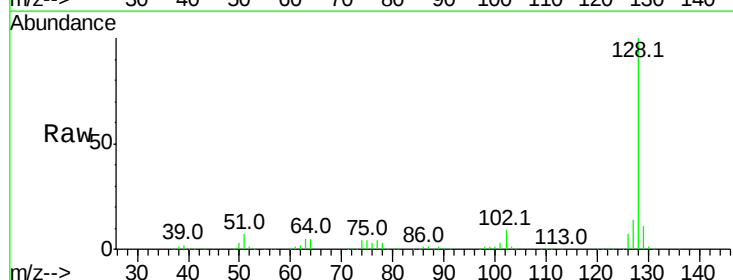
Instrument :
 BNA_F
 ClientSampleId :

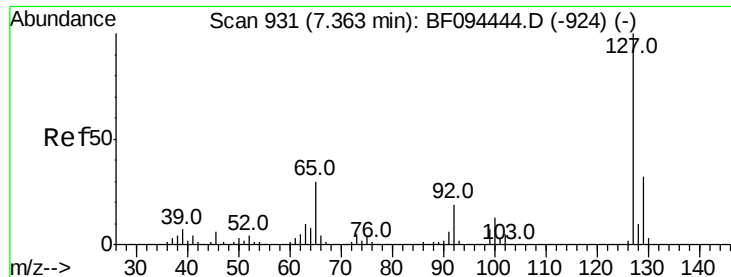
Tot Ion: 82 Resp: 74850
 Ion Ratio Lower Upper
 82 100
 128 46.1 34.0 51.0
 54 47.2 42.2 63.2



#31
 Naphthalene
 Concen: 54.45 ng
 RT: 7.28 min Scan# 909
 Delta R.T. -0.01 min
 Lab File: BF094748.D
 Acq: 1 May 2017 13:47

Tgt Ion:128 Resp: 1047552
 Ion Ratio Lower Upper
 128 100
 129 11.1 9.0 13.6
 127 13.5 10.8 16.2

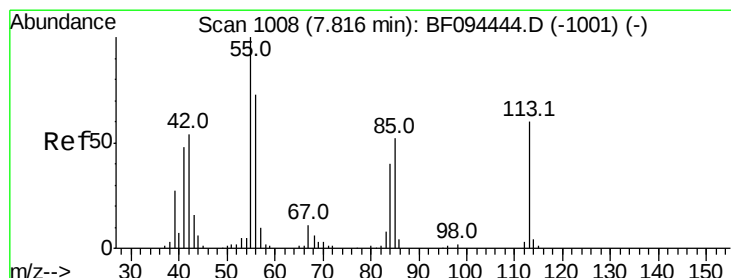
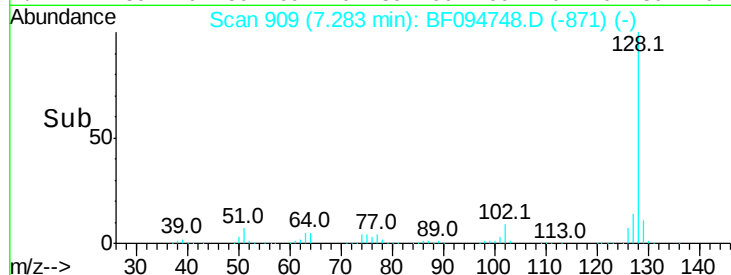
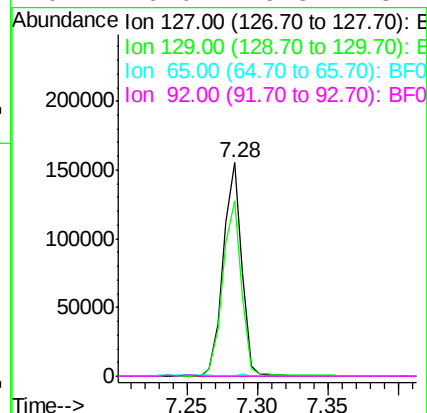
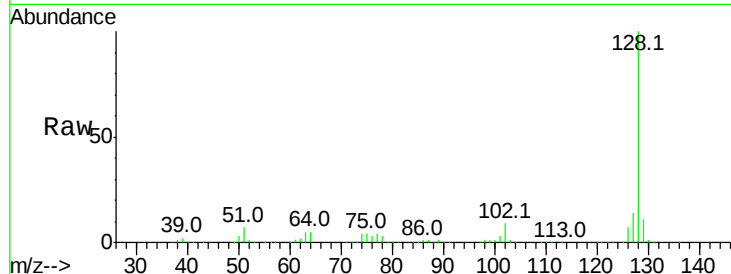




#33
4-Chloroaniline
Concen: 17.63 ng
RT: 7.28 min Scan# 909
Delta R.T. -0.08 min
Lab File: BF094748.D
Acq: 1 May 2017 13:47

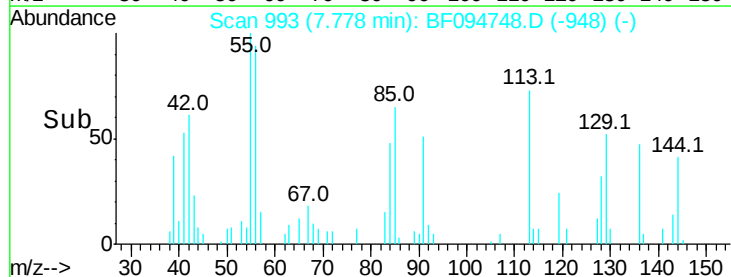
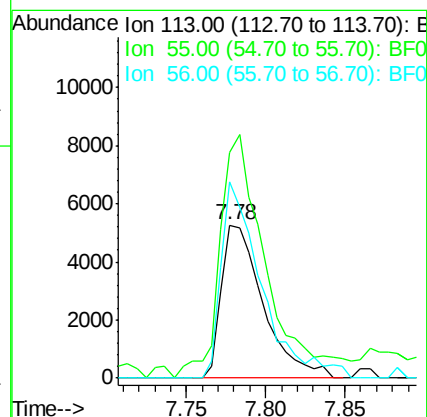
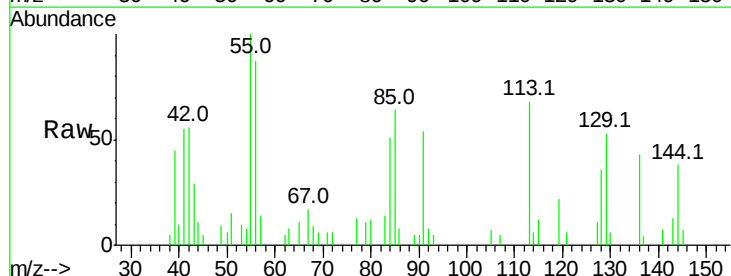
Instrument :
BNA_F
ClientSampleId :

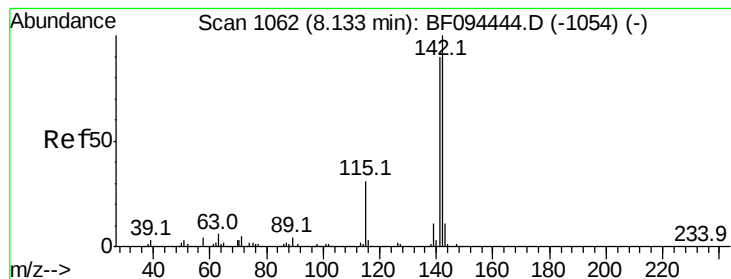
Tot Ion:127 Resp: 141065
Ion Ratio Lower Upper
127 100
129 81.9 26.2 39.2#
65 0.0 27.8 41.8#
92 0.0 16.8 25.2#



#35
Caprolactam
Concen: 5.54 ng
RT: 7.78 min Scan# 993
Delta R.T. -0.04 min
Lab File: BF094748.D
Acq: 1 May 2017 13:47

Tgt Ion:113 Resp: 9649
Ion Ratio Lower Upper
113 100
55 147.8 150.2 190.2#
56 128.0 107.8 147.8





#37

2-Methylnaphthalene

Concen: 11.04 ng

RT: 8.12 min Scan# 1051

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

BNA_F

ClientSampled :

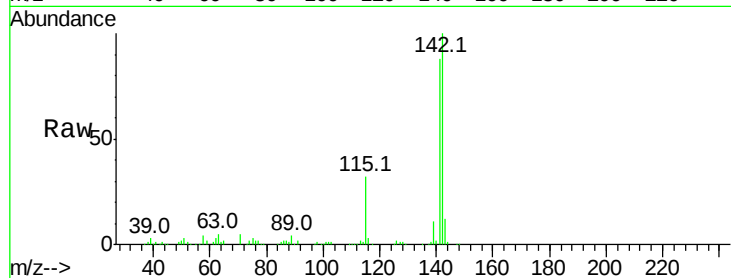
Tot Ion:142 Resp: 145343

Ion Ratio Lower Upper

142 100

141 87.9 71.3 106.9

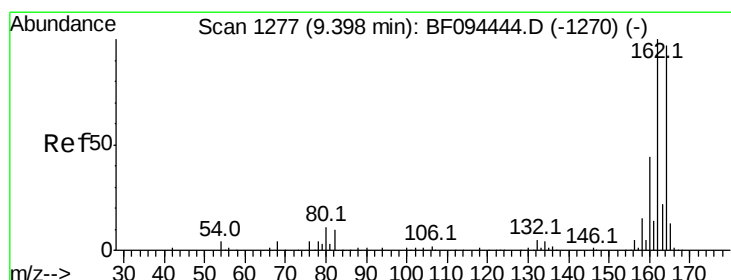
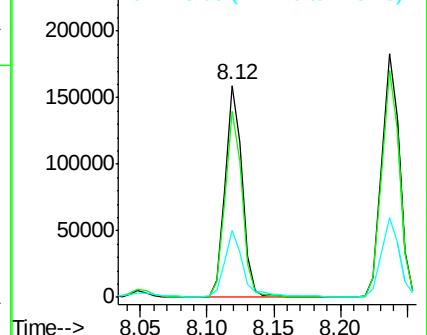
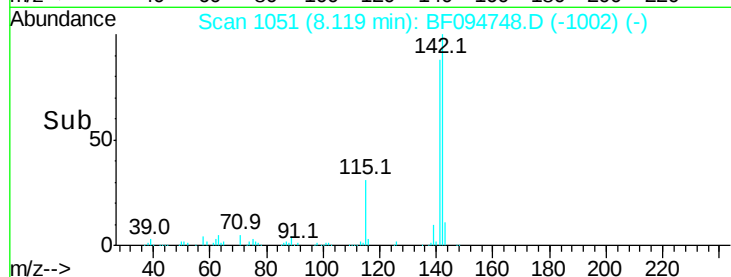
115 31.7 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.39 min Scan# 1267

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

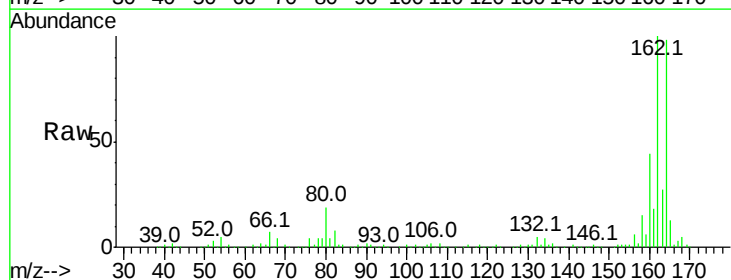
Tgt Ion:164 Resp: 186292

Ion Ratio Lower Upper

164 100

162 101.8 82.6 123.8

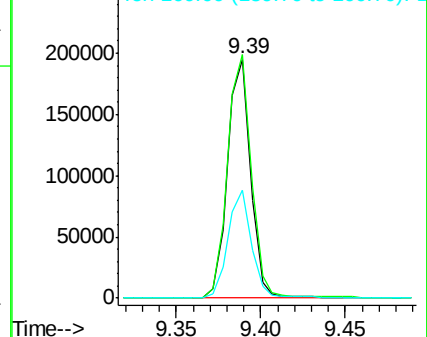
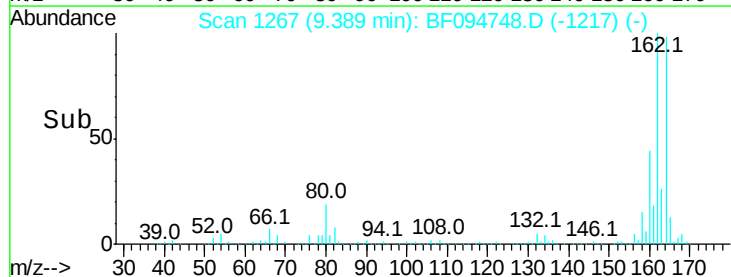
160 45.1 36.2 54.2

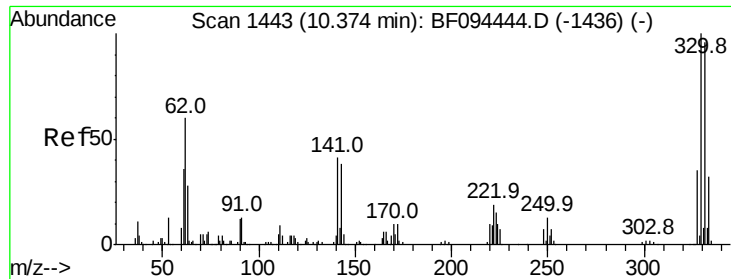


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

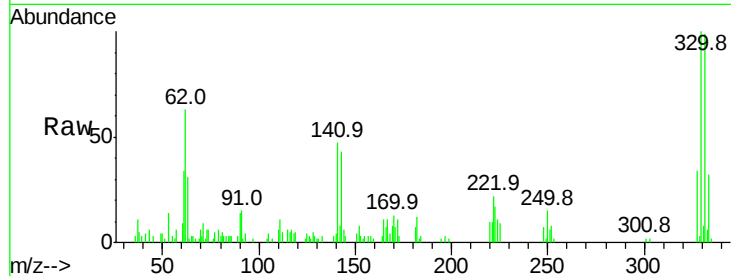




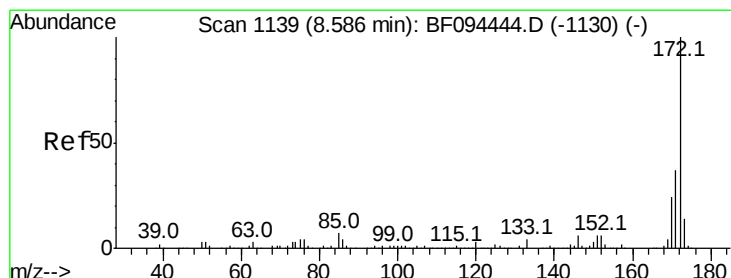
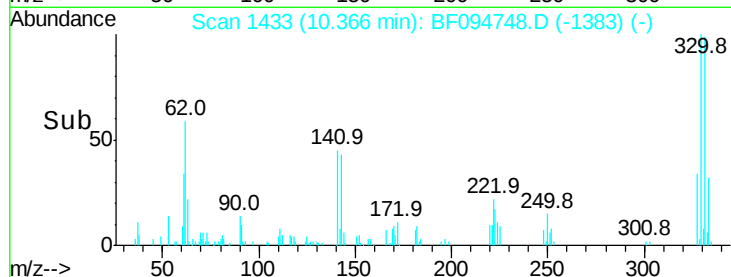
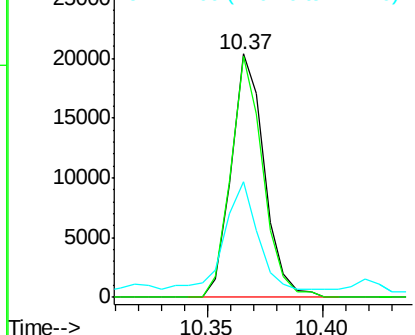
#41
 2,4,6-Tribromophenol
 Concen: 13.96 ng
 RT: 10.37 min Scan# 1433
 Delta R.T. -0.01 min
 Lab File: BF094748.D
 Acq: 1 May 2017 13:47

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 20336
 Ion Ratio Lower Upper
 330 100
 332 96.1 76.6 115.0
 141 46.5 31.4 47.2

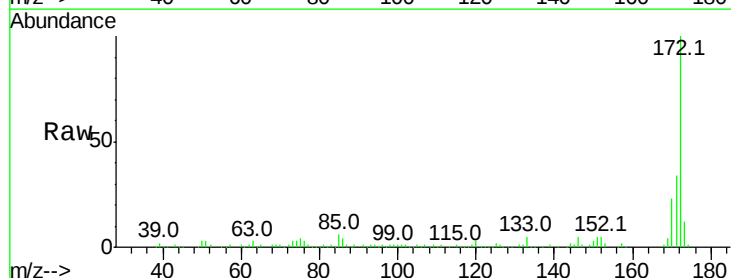


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

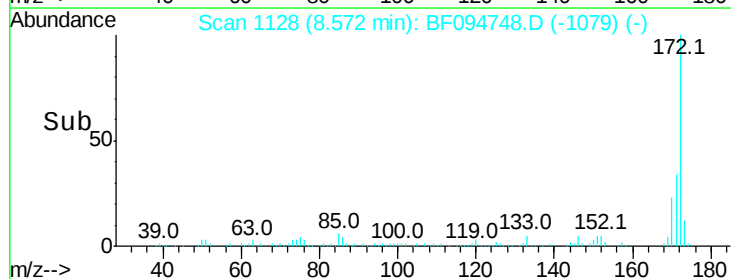
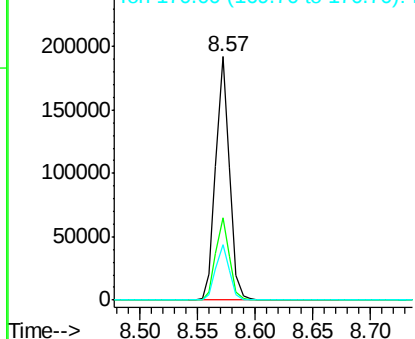


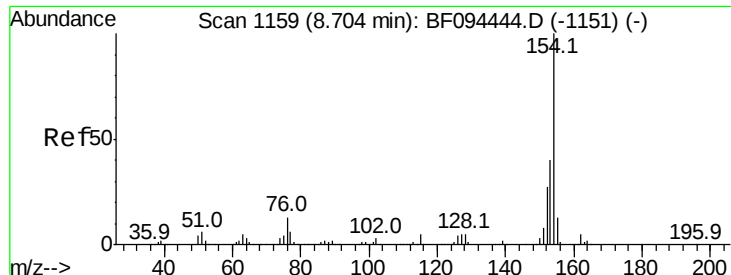
#44
 2-Fluorobiphenyl
 Concen: 12.60 ng
 RT: 8.57 min Scan# 1128
 Delta R.T. -0.01 min
 Lab File: BF094748.D
 Acq: 1 May 2017 13:47

Tgt Ion:172 Resp: 159585
 Ion Ratio Lower Upper
 172 100
 171 33.9 29.6 44.4
 170 22.7 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

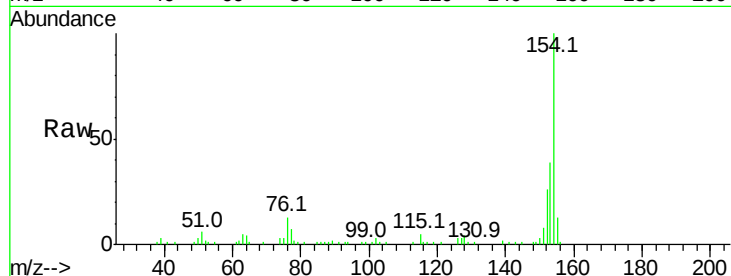




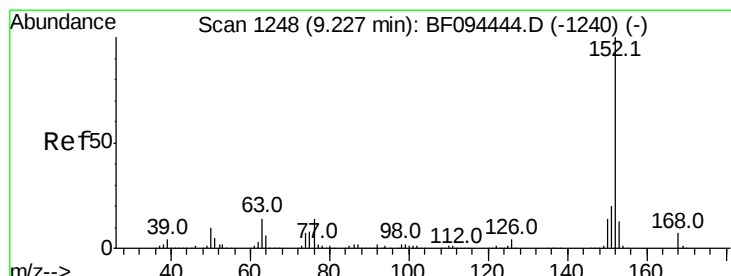
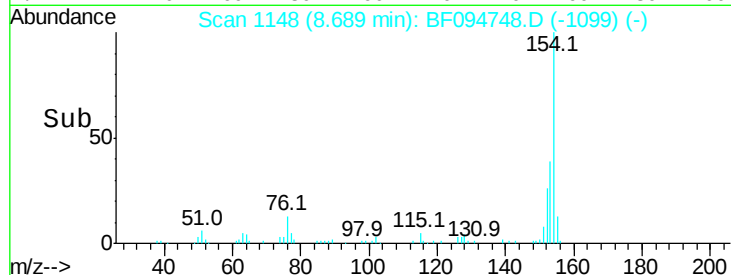
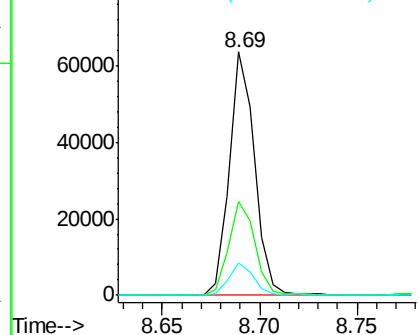
#45
 1,1'-Biphenyl
 Concen: 3.75 ng
 RT: 8.69 min Scan# 1148
 Delta R.T. -0.01 min
 Lab File: BF094748.D
 Acq: 1 May 2017 13:47

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:154	Resp:	57102
Ion Ratio	Lower	Upper
154	100	
153	38.8	21.2 61.2
76	13.3	0.0 29.9

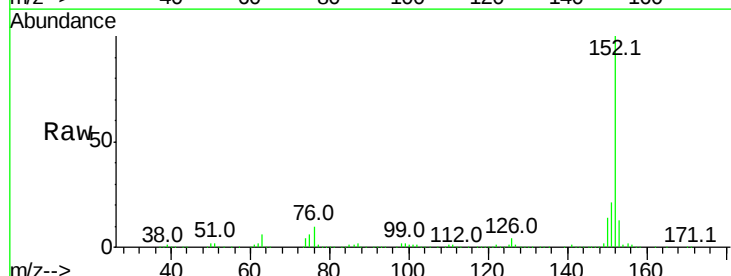


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0

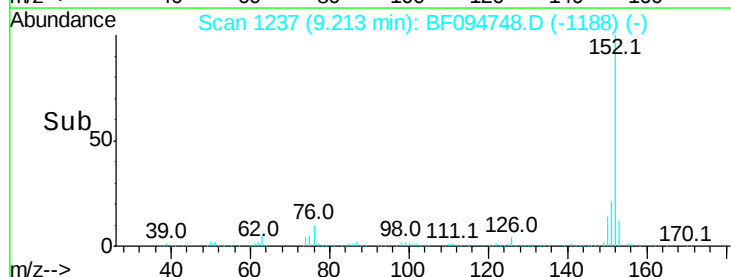
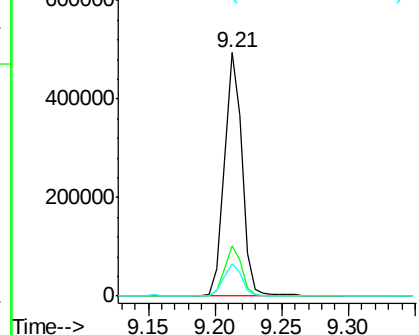


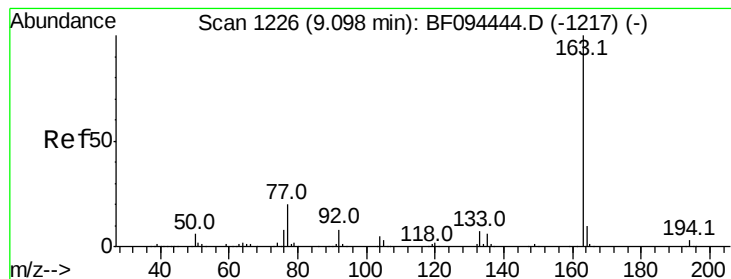
#48
 Acenaphthylene
 Concen: 24.76 ng
 RT: 9.21 min Scan# 1237
 Delta R.T. -0.01 min
 Lab File: BF094748.D
 Acq: 1 May 2017 13:47

Tgt Ion:152	Resp:	467128
Ion Ratio	Lower	Upper
152	100	
151	20.7	16.8 25.2
153	13.5	10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 3.61 ng

RT: 9.08 min Scan# 1214

Delta R.T. -0.02 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

BNA_F

ClientSampleId :

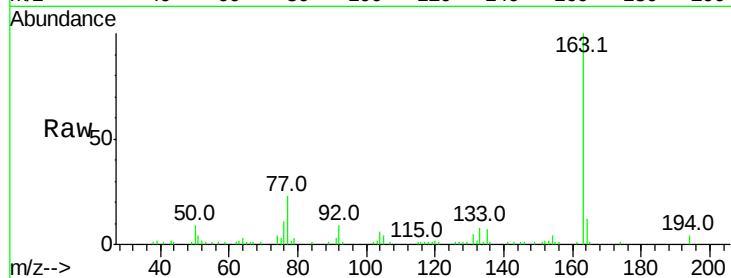
Tot Ion:163 Resp: 50138

Ion Ratio Lower Upper

163 100

194 3.5 2.6 4.0

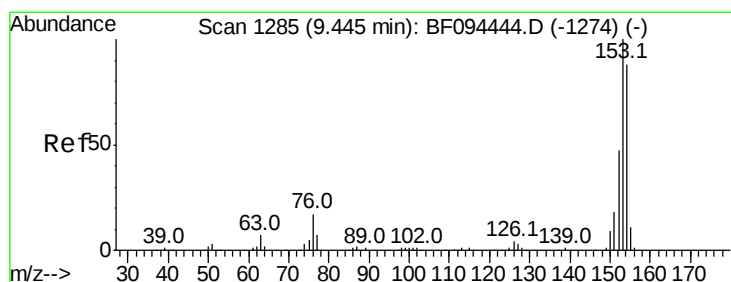
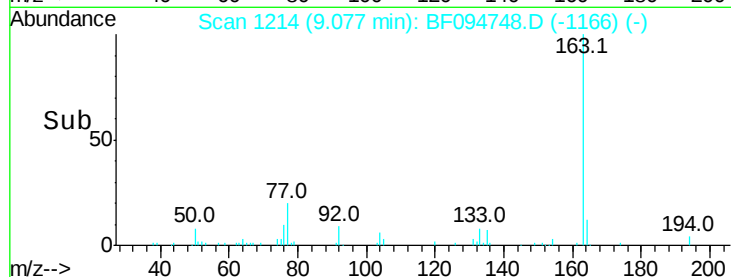
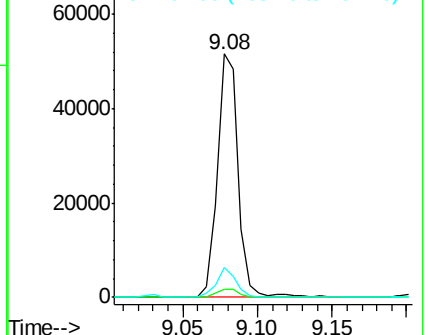
164 12.5 8.4 12.6



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



#51

Acenaphthene

Concen: 4.29 ng

RT: 9.42 min Scan# 1273

Delta R.T. -0.02 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

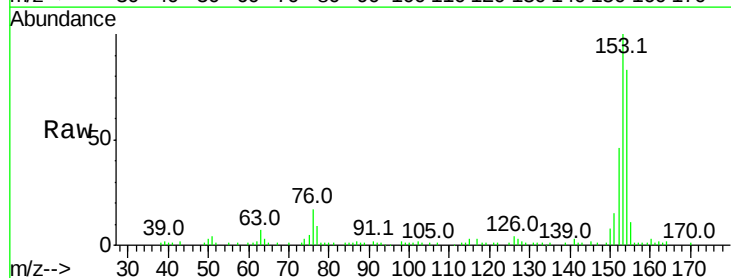
Tgt Ion:154 Resp: 48500

Ion Ratio Lower Upper

154 100

153 120.3 90.5 135.7

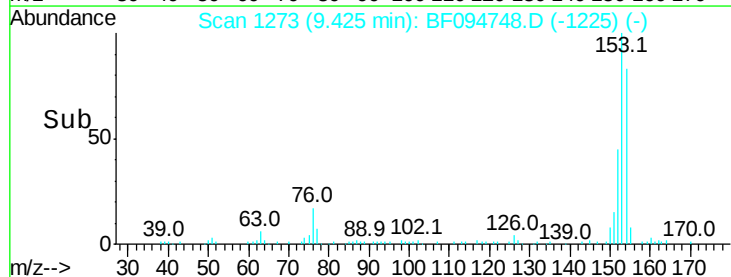
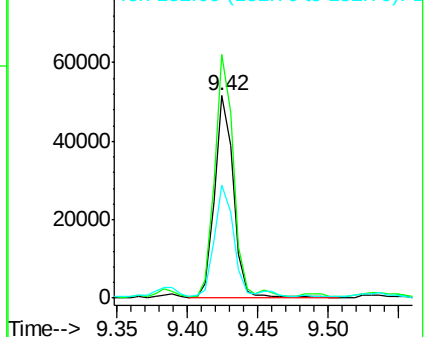
152 55.6 43.6 65.4

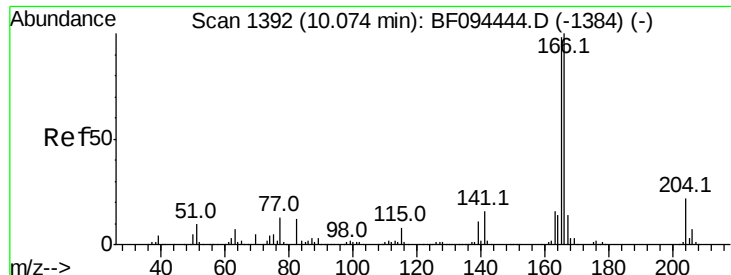


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

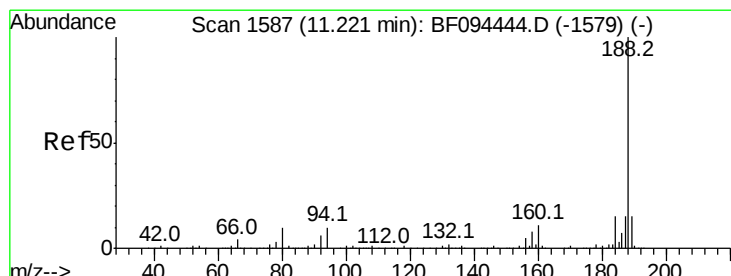
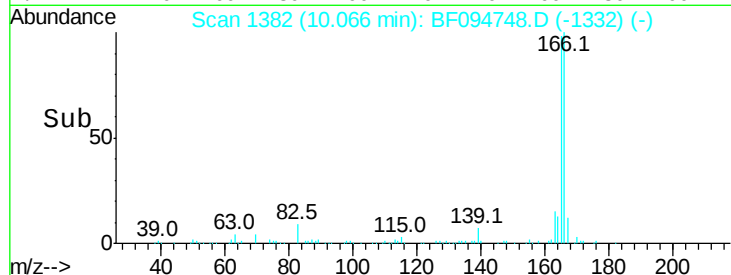
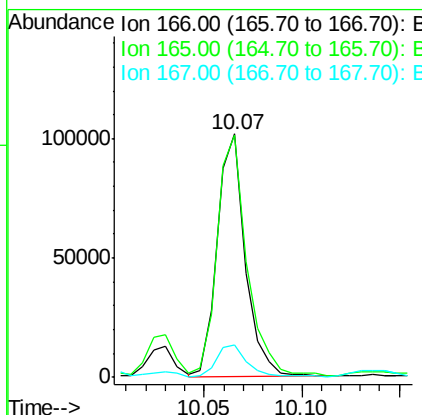
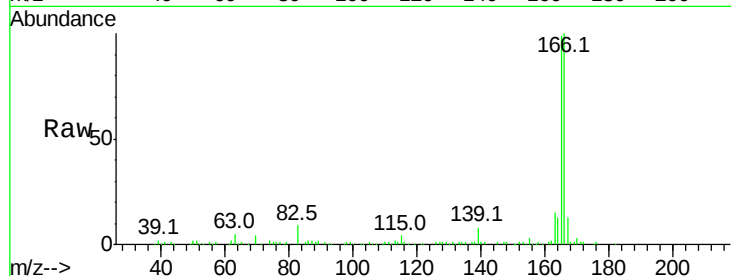




#57
Fluorene
 Concen: 7.91 ng
 RT: 10.07 min Scan# 1382
 Delta R.T. -0.01 min
 Lab File: BF094748.D
 Acq: 1 May 2017 13:47

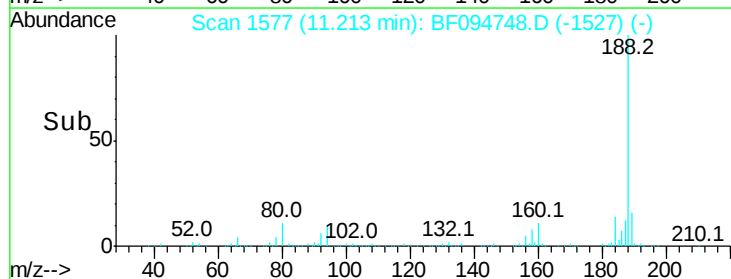
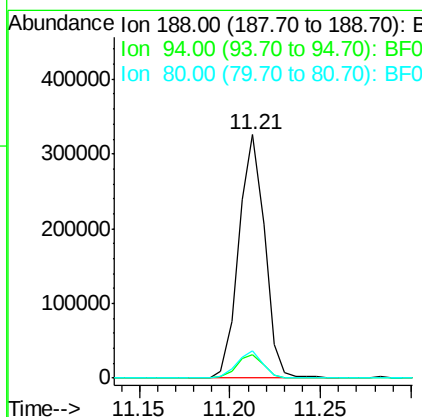
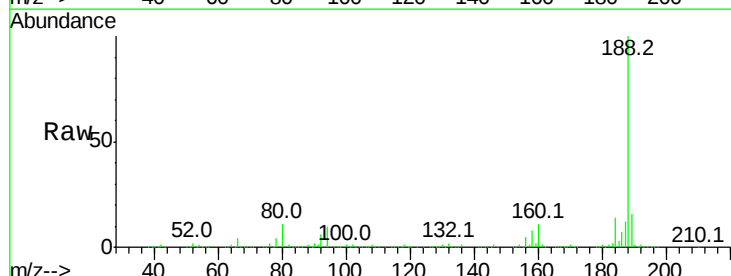
Instrument :
 BNA_F
 ClientSampled :

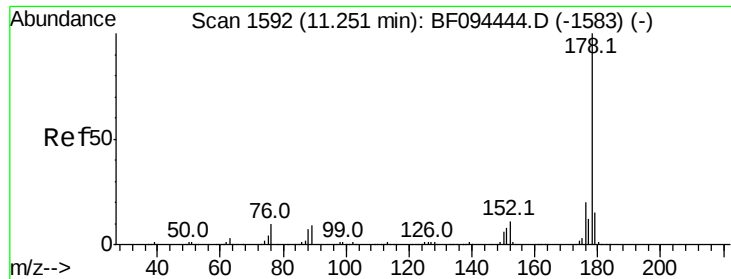
Tot Ion	Ratio	Lower	Upper
166	100		
165	99.5	78.8	118.2
167	13.4	10.6	16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.21 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: BF094748.D
 Acq: 1 May 2017 13:47

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.8	9.4	14.2
80	11.0	10.2	15.2





#70

Phenanthrene

Concen: 19.55 ng

RT: 11.24 min Scan# 1582

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

BNA_F

ClientSampled :

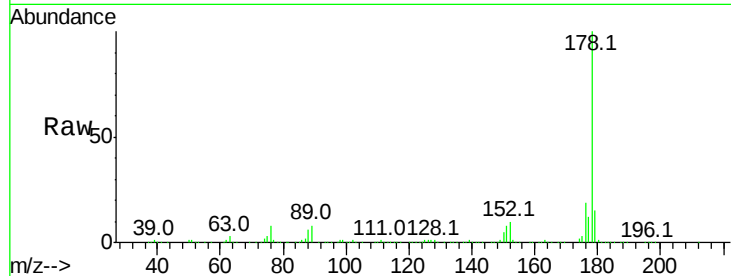
Tot Ion:178 Resp: 355468

Ion Ratio Lower Upper

178 100

176 18.6 16.2 24.4

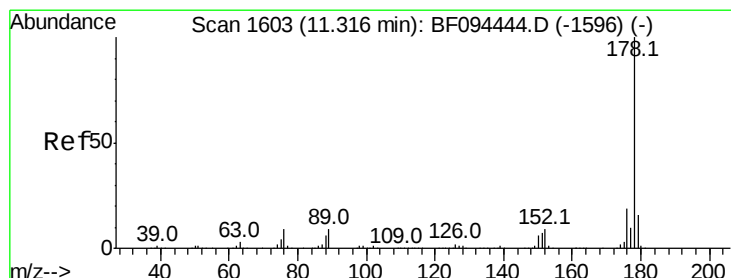
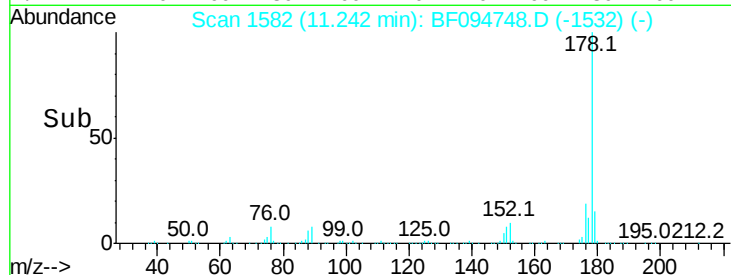
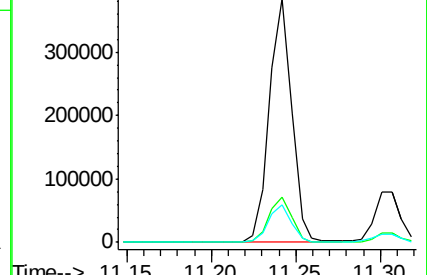
179 15.2 12.6 19.0



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: 4.44 ng

RT: 11.31 min Scan# 1593

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

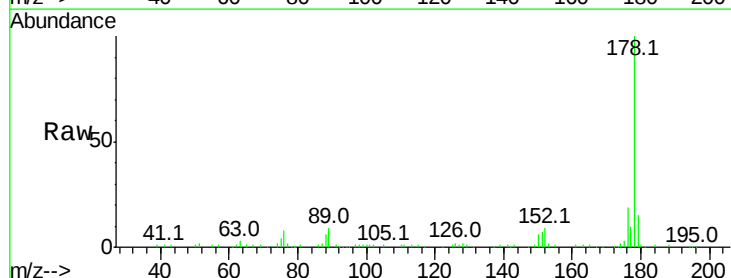
Tgt Ion:178 Resp: 83471

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.8

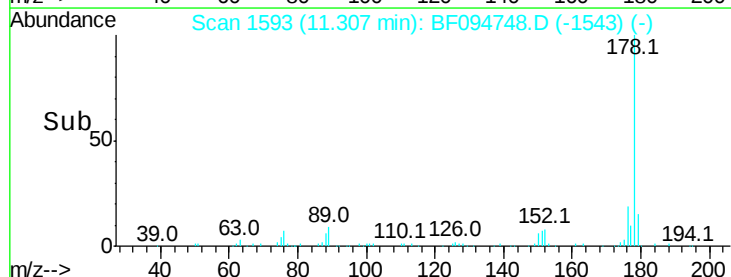
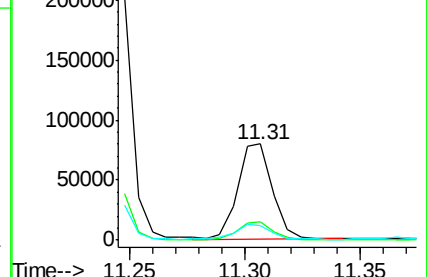
179 15.3 12.7 19.1

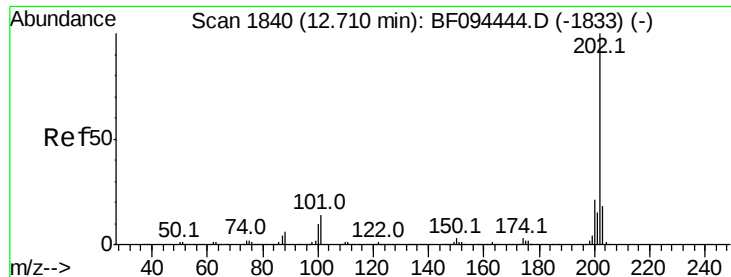


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 7.62 ng

RT: 12.70 min Scan# 1830

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

BNA_F

ClientSampleId :

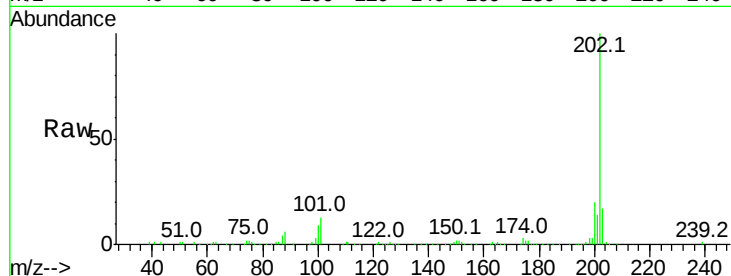
Tot Ion:202 Resp: 143683

Ion Ratio Lower Upper

202 100

101 13.0 0.0 33.2

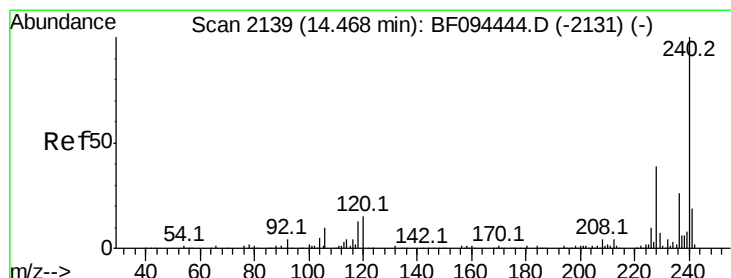
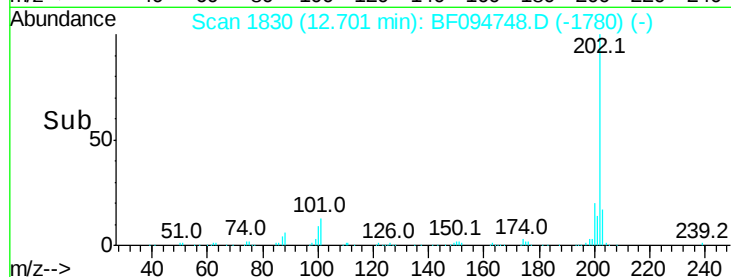
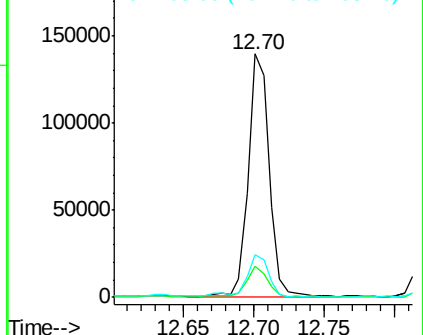
203 17.3 0.0 38.1



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: 14.47 min Scan# 2130

Delta R.T. -0.00 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

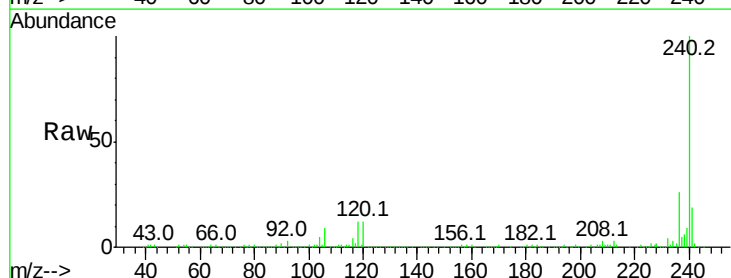
Tgt Ion:240 Resp: 262112

Ion Ratio Lower Upper

240 100

120 12.4 5.8 8.8#

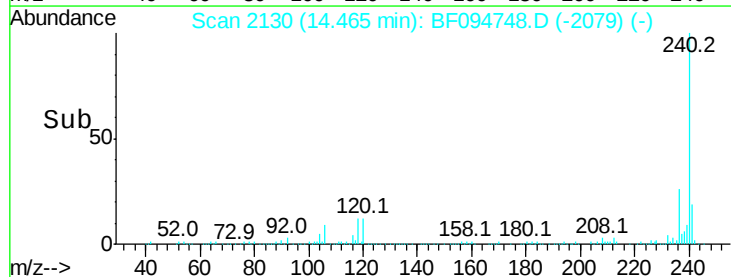
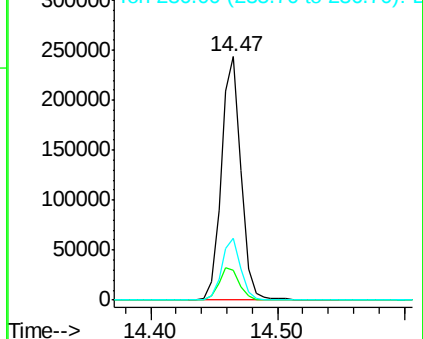
236 25.6 20.5 30.7

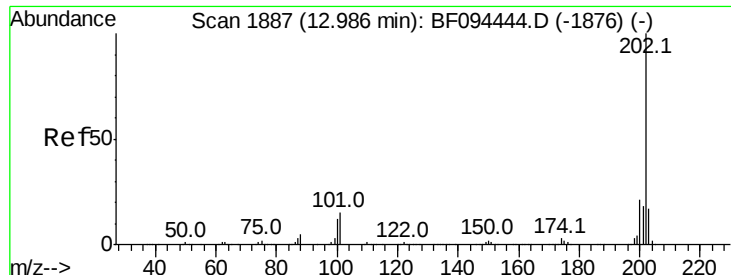


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 10.02 ng

RT: 12.98 min Scan# 1877

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

BNA_F

ClientSampleId :

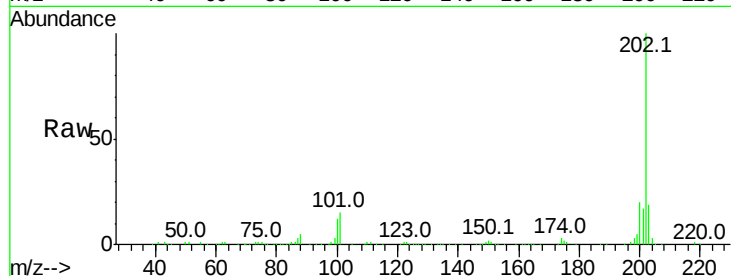
Tot Ion:202 Resp: 183576

Ion Ratio Lower Upper

202 100

200 20.2 17.6 26.4

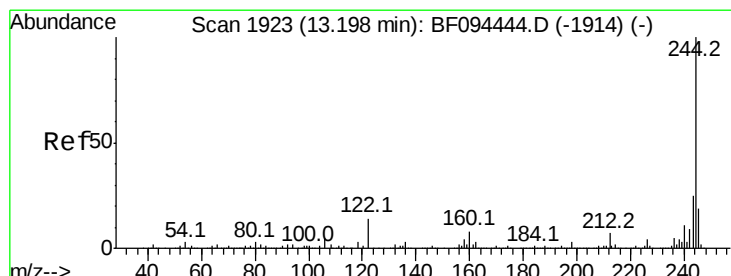
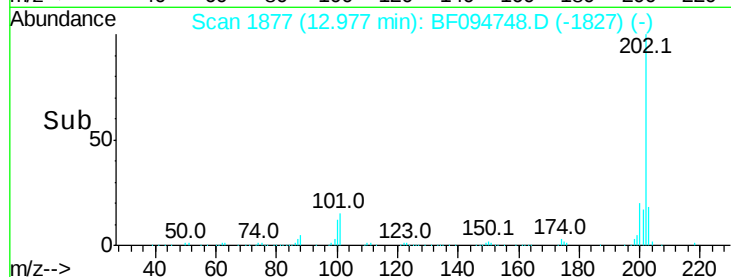
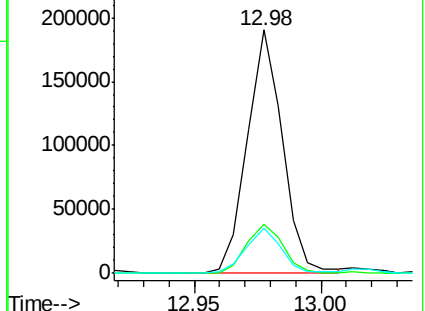
203 18.6 14.4 21.6



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: 13.21 ng

RT: 13.18 min Scan# 1912

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

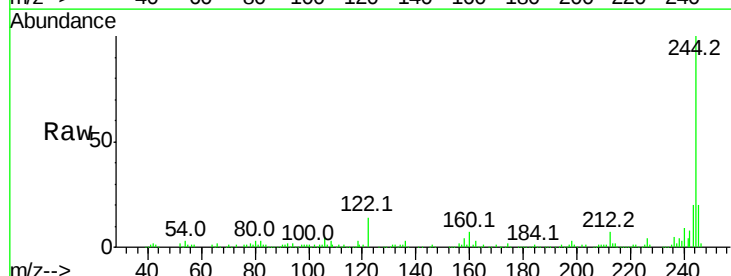
Tgt Ion:244 Resp: 129506

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

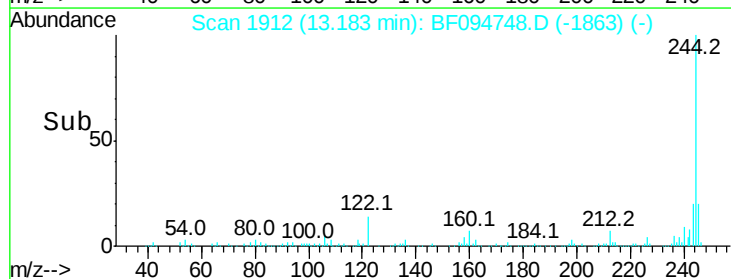
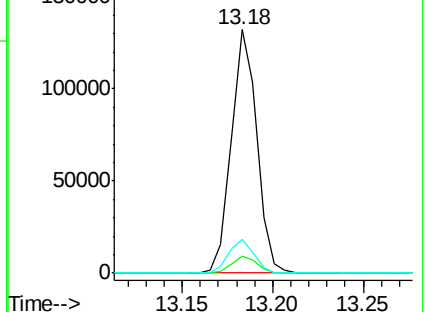
122 13.8 10.3 15.5

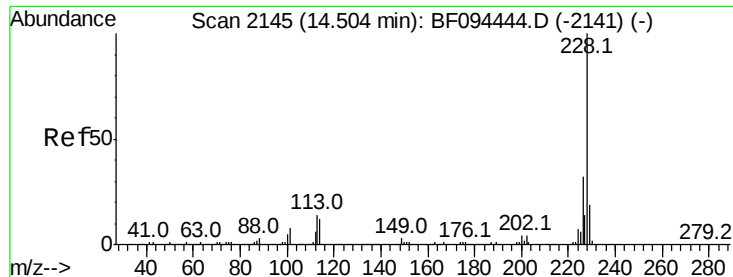


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#82

Chrysene

Concen: 2.09 ng

RT: 14.49 min Scan# 2135

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

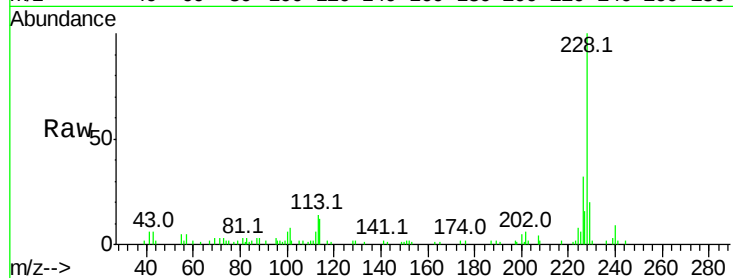
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 29073

Ion	Ratio	Lower	Upper
228	100		
226	32.4	24.9	37.3
229	20.1	15.8	23.6

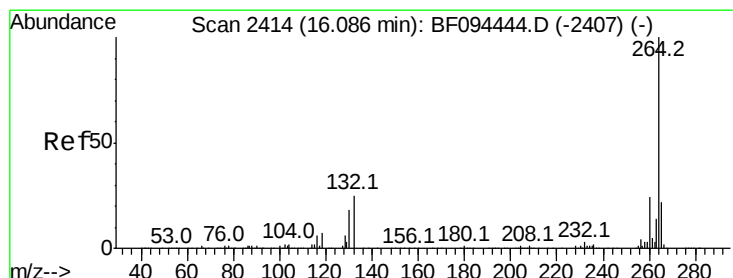
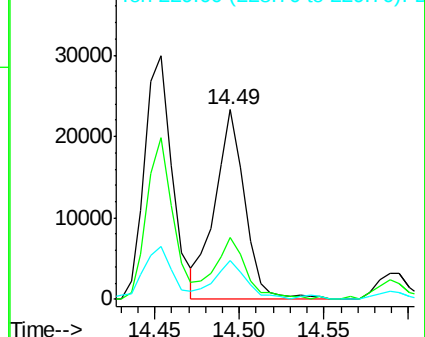
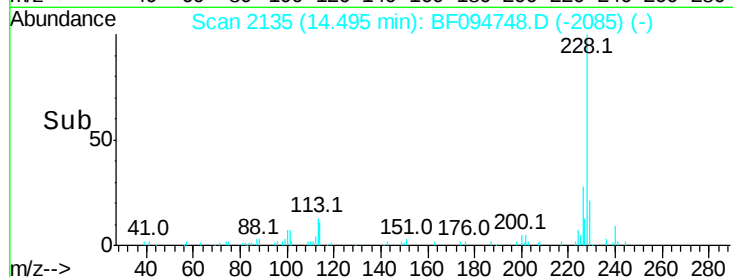


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 16.09 min Scan# 2406

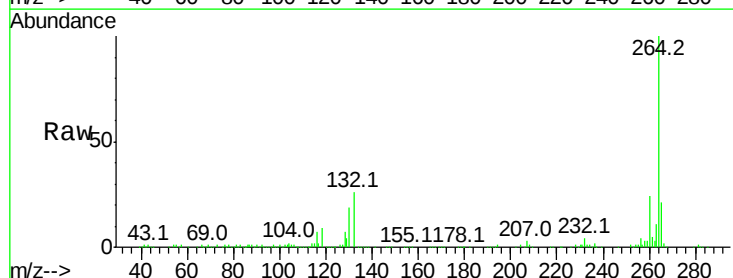
Delta R.T. 0.00 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Tgt Ion:264 Resp: 191050

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.5	29.3
265	20.7	17.2	25.8

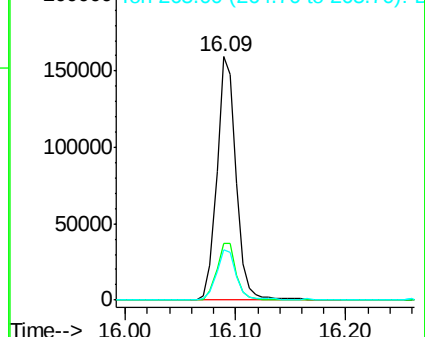
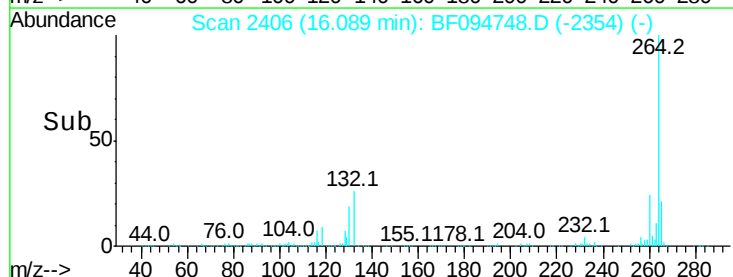


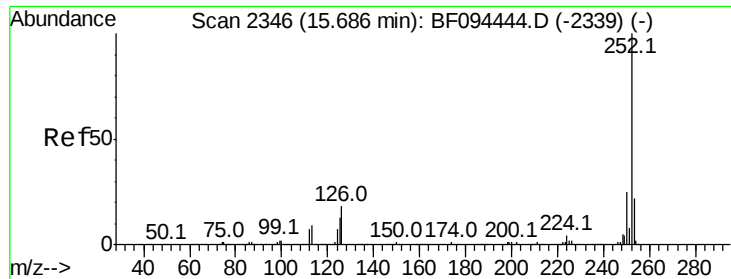
Abundance

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: 2.24 ng

RT: 15.69 min Scan# 2339

Delta R.T. 0.01 min

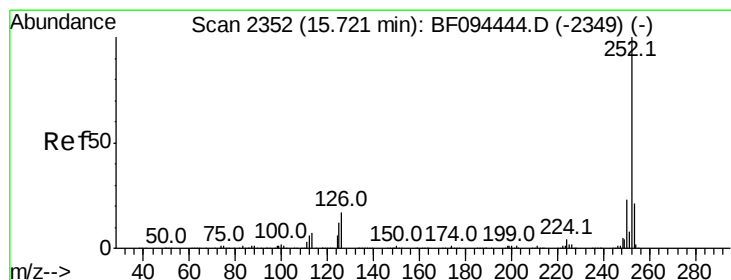
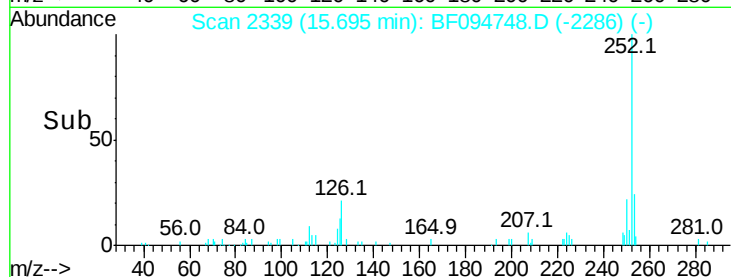
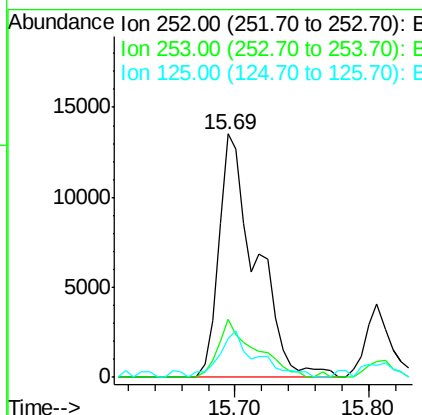
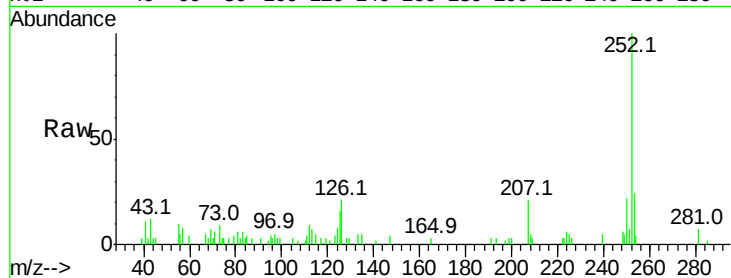
Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 26183

Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.1	27.1
125	15.8	9.8	14.8#



#88

Benzo(k)fluoranthene

Concen: 2.37 ng

RT: 15.69 min Scan# 2339

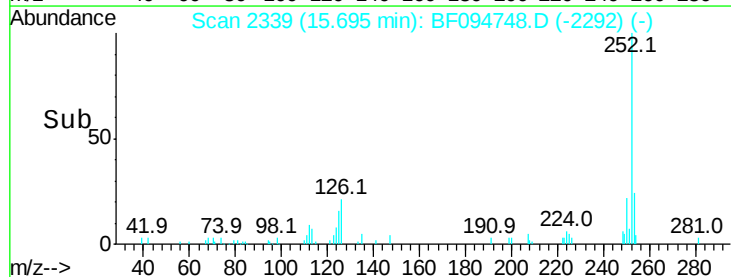
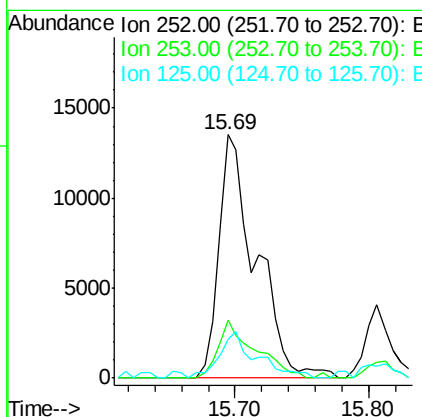
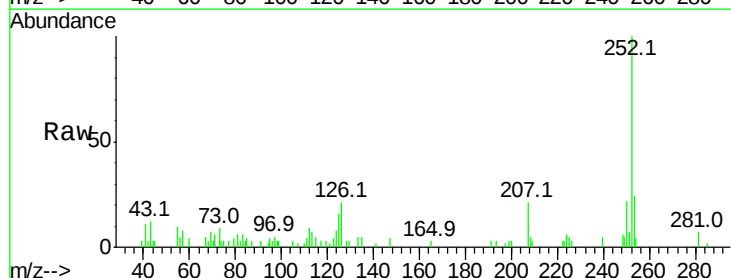
Delta R.T. -0.03 min

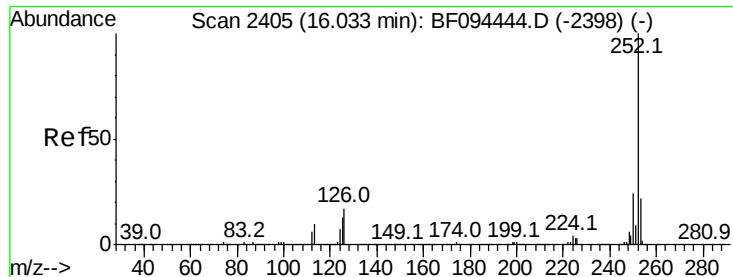
Lab File: BF094748.D

Acq: 1 May 2017 13:47

Tgt Ion:252 Resp: 26183

Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.4	27.6
125	15.8	13.1	19.7





#89

Benzo(a)pyrene

Concen: 2.12 ng

RT: 16.04 min Scan# 2397

Delta R.T. 0.00 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

BNA_F

ClientSampleId :

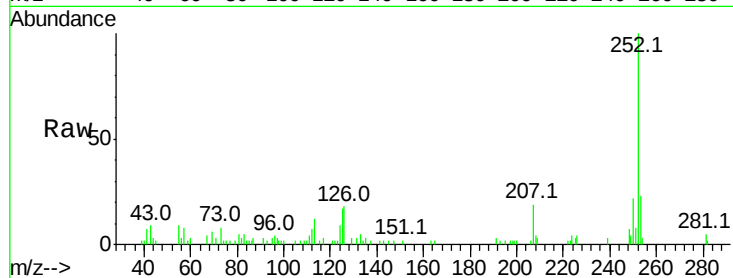
Tot Ion:252 Resp: 23029

Ion Ratio Lower Upper

252 100

253 22.6 17.5 26.3

125 17.0 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

