

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032916\
 Data File : BF085870.D
 Acq On : 30 Mar 2016 1:13
 Operator : UM/SJ
 Sample : H2023-03
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-3

Quant Time: Mar 30 01:17:27 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 28 15:27:05 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	103445	20.00	ng	-0.02
21) Naphthalene-d8	8.09	136	399677	20.00	ng	-0.02
38) Acenaphthene-d10	9.84	164	141605	20.00	ng	-0.02
63) Phenanthrene-d10	11.33	188	235866	20.00	ng	-0.02
75) Chrysene-d12	13.97	240	227539	20.00	ng	-0.01
86) Perylene-d12	15.39	264	169739	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	835174	134.46	ng	0.00
7) Phenol-d6	6.46	99	1163947	147.39	ng	0.00
23) Nitrobenzene-d5	7.37	82	600418	84.60	ng	-0.02
41) 2,4,6-Tribromophenol	10.64	330	164067	121.95	ng	-0.01
44) 2-Fluorobiphenyl	9.17	172	778224	91.82	ng	-0.02
78) Terphenyl-d14	12.92	244	586126	52.98	ng	-0.01

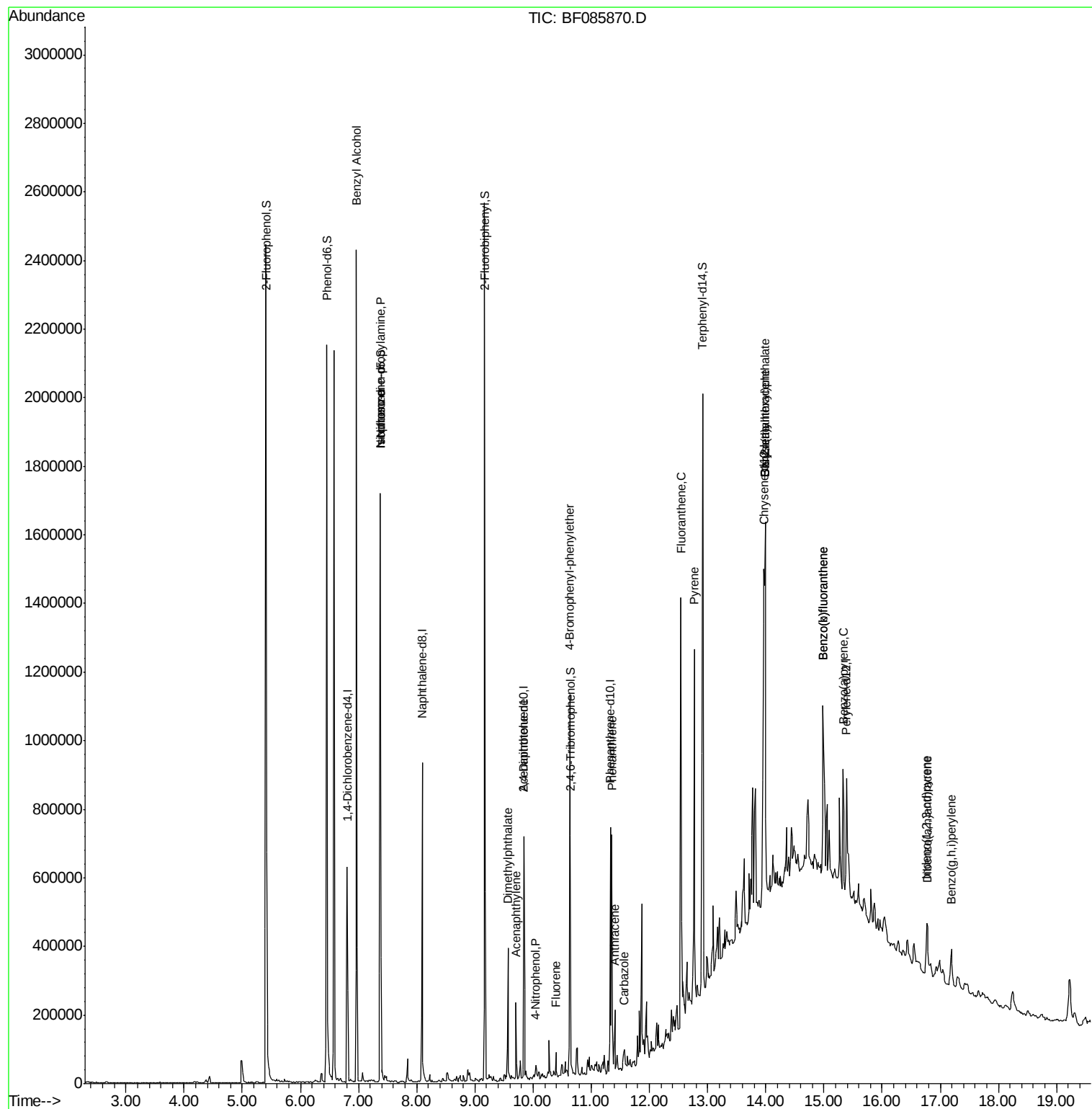
Target Compounds						Qvalue
15) Benzyl Alcohol	6.96	79	12240	2.32	ng	# 52
19) n-Nitroso-di-n-propylamine	7.37	70	80119	16.94	ng	# 78
25) Isophorone	7.37	82	518142	37.90	ng	# 68
37) 2-Methylnaphthalene	8.90	142	4434	Below Cal		92
48) Acenaphthylene	9.70	152	94359	6.59	ng	98
49) Dimethylphthalate	9.57	163	148286	13.80	ng	99
55) 4-Nitrophenol	10.05	139	3914	2.27	ng	# 15
56) 2,4-Dinitrotoluene	9.84	165	18452	6.28	ng	# 38
57) Fluorene	10.39	166	22726	2.42	ng	98
66) 4-Bromophenyl-phenylether	10.63	248	10477	4.34	ng	# 1
70) Phenanthrene	11.35	178	240287	19.84	ng	99
71) Anthracene	11.41	178	86114	6.77	ng	97
72) Carbazole	11.57	167	25552	2.39	ng	99
74) Fluoranthene	12.54	202	487417	37.86	ng	98
77) Pyrene	12.77	202	408437	21.84	ng	100
80) Benzo(a)anthracene	13.99	228	199957	15.41	ng	93
82) Chrysene	13.99	228	199947	15.30	ng	97
83) Bis(2-ethylhexyl)phthalate	13.99	149	468561	49.96	ng	# 95
85) Indeno(1,2,3-cd)pyrene	16.77	276	99971	9.91	ng	# 91
87) Benzo(b)fluoranthene	14.99	252	376074	35.17	ng	97
88) Benzo(k)fluoranthene	14.99	252	376074	39.01	ng	# 94
89) Benzo(a)pyrene	15.33	252	174111	18.34	ng	# 93
90) Dibenzo(a,h)anthracene	16.78	278	27492	3.12	ng	# 77
91) Benzo(g,h,i)perylene	17.19	276	86511	9.69	ng	96

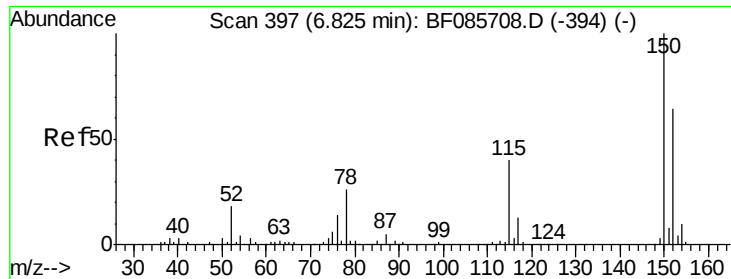
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 395

Delta R.T. -0.02 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

BNA_F

ClientSampleId :

B-3

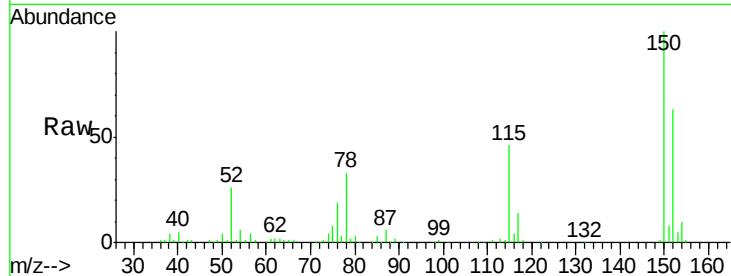
Tgt Ion:152 Resp: 103445

Ion Ratio Lower Upper

152 100

150 157.8 124.2 186.2

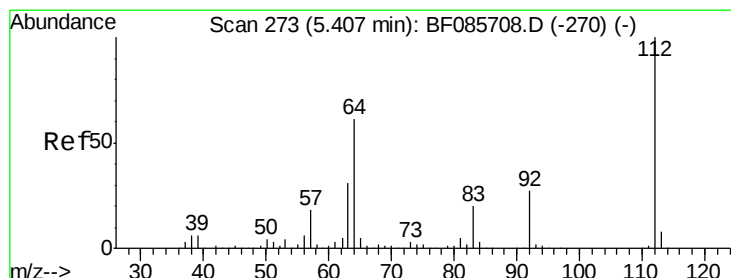
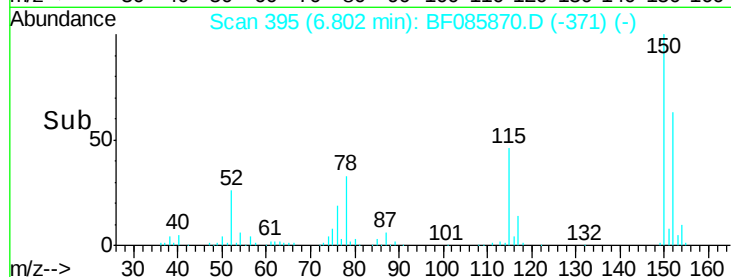
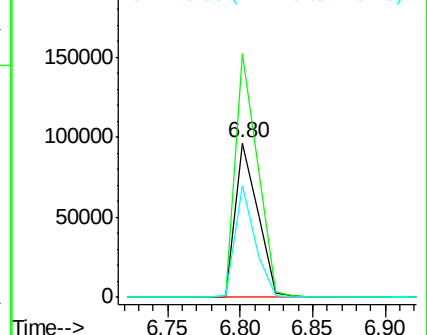
115 72.0 47.0 70.6#



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: 134.46 ng

RT: 5.41 min Scan# 273

Delta R.T. 0.00 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

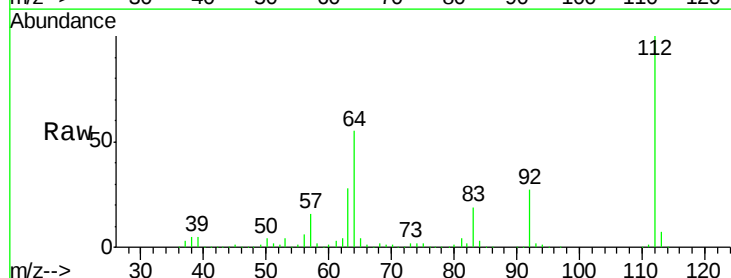
Tgt Ion:112 Resp: 835174

Ion Ratio Lower Upper

112 100

64 55.4 39.9 59.9

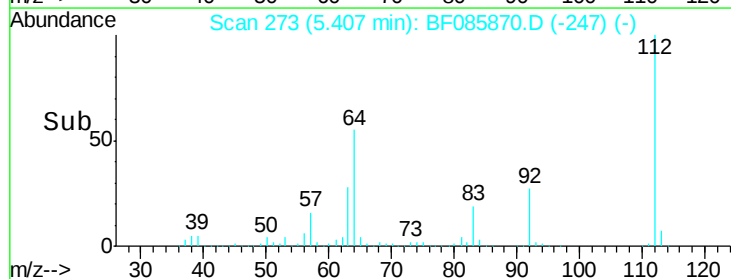
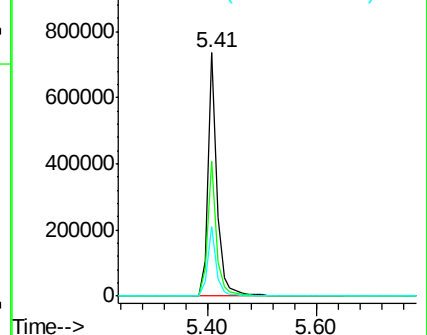
63 28.5 20.2 30.2



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: 147.39 ng

RT: 6.46 min Scan# 365

Delta R.T. -0.00 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

BNA_F

ClientSampleId :

B-3

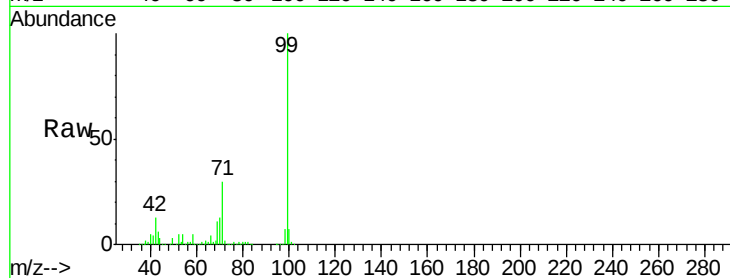
Tgt Ion: 99 Resp: 1163947

Ion Ratio Lower Upper

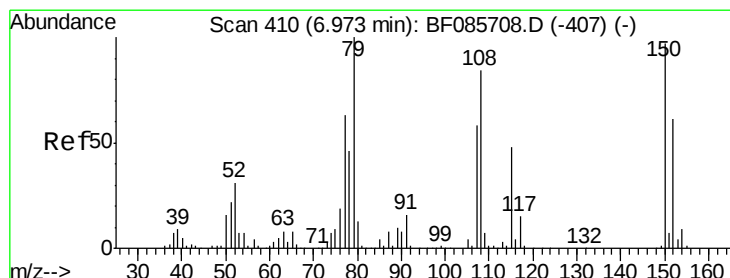
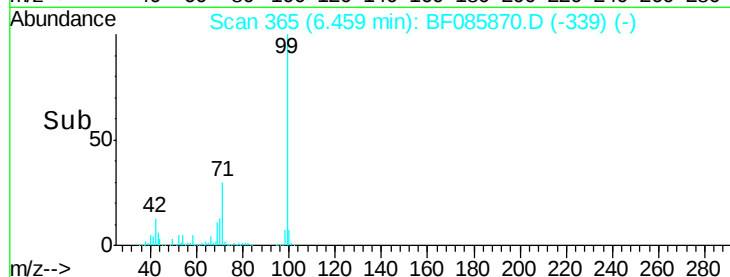
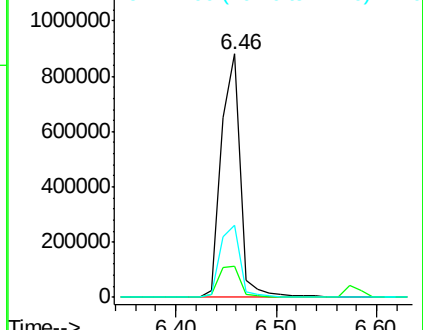
99 100

42 12.7 11.1 16.7

71 29.7 24.9 37.3



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



#15

Benzyl Alcohol

Concen: 2.32 ng

RT: 6.96 min Scan# 409

Delta R.T. -0.01 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

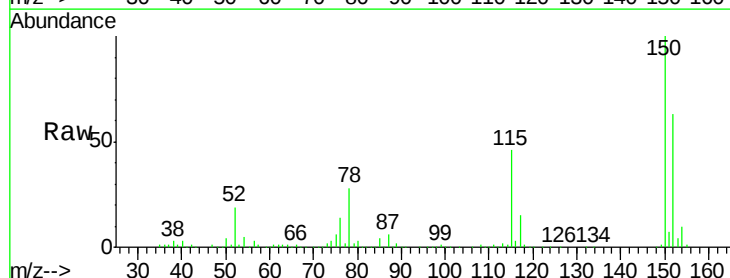
Tgt Ion: 79 Resp: 12240

Ion Ratio Lower Upper

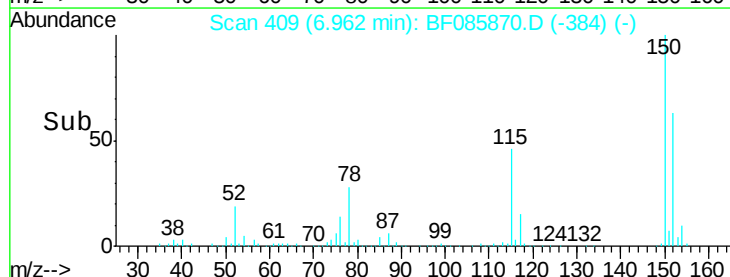
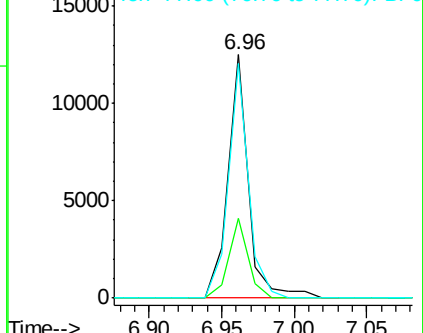
79 100

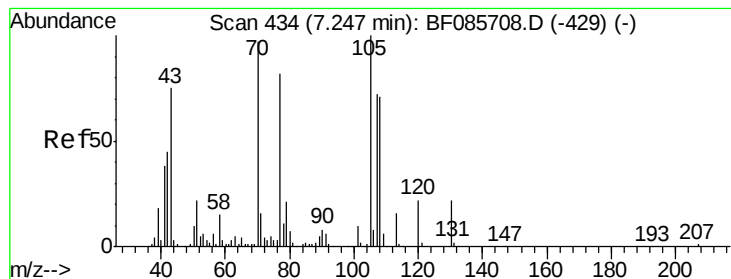
108 32.7 61.8 92.6#

77 96.2 49.6 74.4#



Abundance Ion 79.00 (78.70 to 79.70): BF0
Ion 108.00 (107.70 to 108.70): BF0
Ion 77.00 (76.70 to 77.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 16.94 ng

RT: 7.37 min Scan# 445

Delta R.T. 0.13 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

BNA_F

ClientSampleId :

B-3

Tgt Ion: 70 Resp: 80119

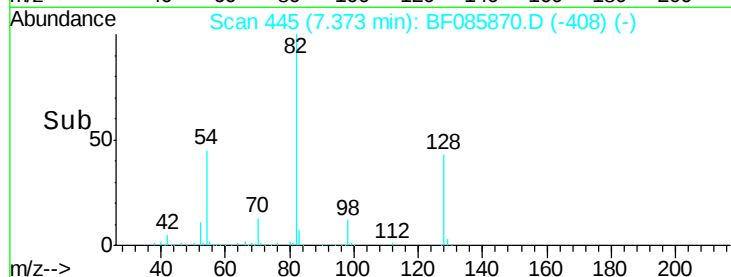
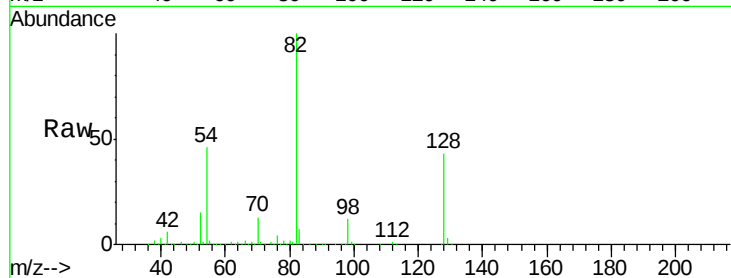
Ion Ratio Lower Upper

70 100

42 41.0 37.1 55.7

101 0.0 8.6 12.8#

130 2.3 19.6 29.4#

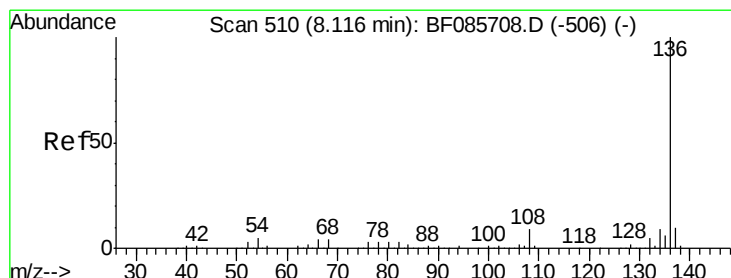
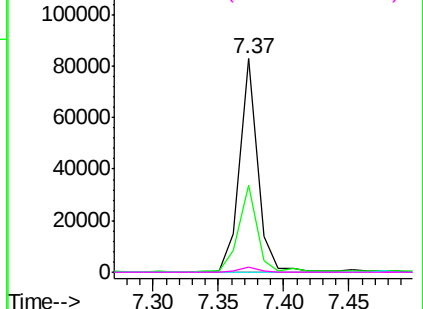


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.09 min Scan# 508

Delta R.T. -0.02 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Tgt Ion: 136 Resp: 399677

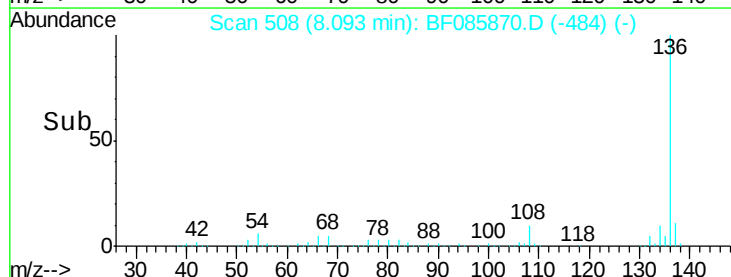
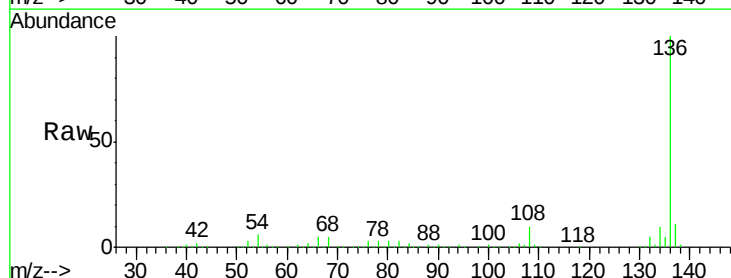
Ion Ratio Lower Upper

136 100

137 10.9 9.1 13.7

54 6.2 7.4 11.0#

68 5.2 5.8 8.8#

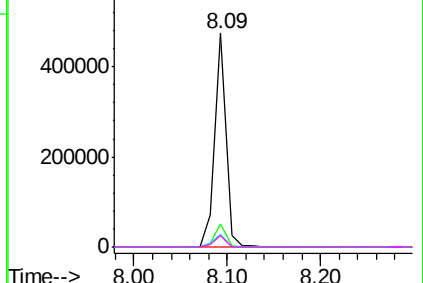


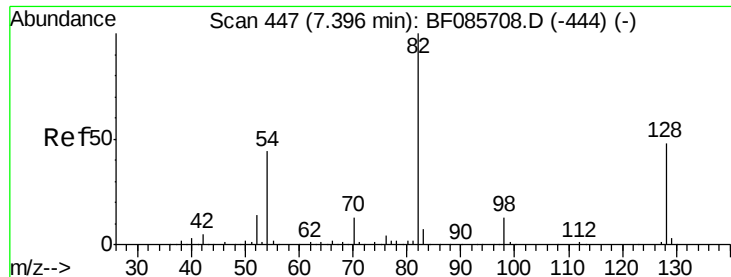
Abundance Ion 136.00 (135.70 to 136.70): E

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

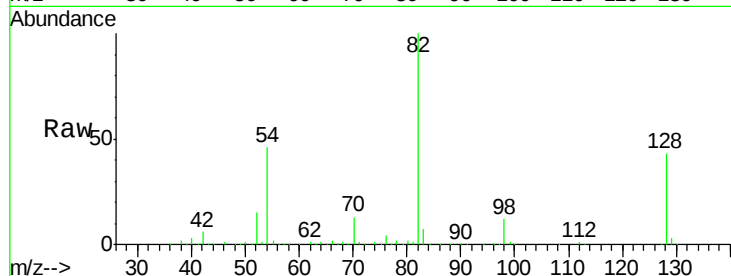




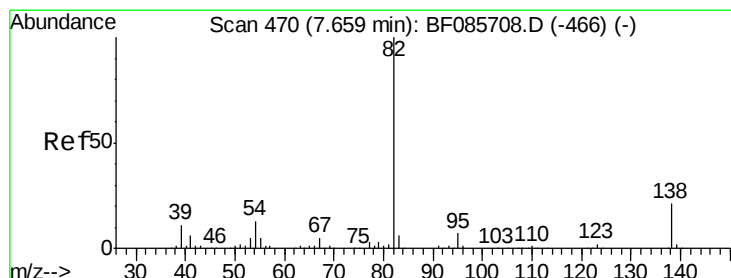
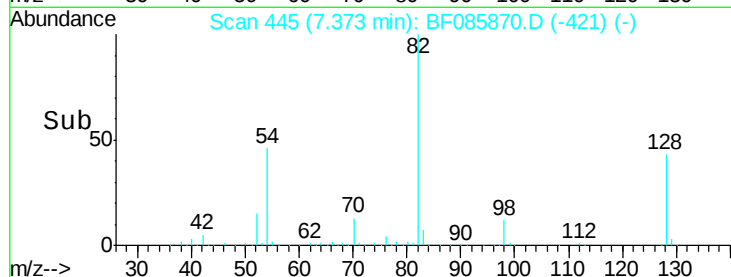
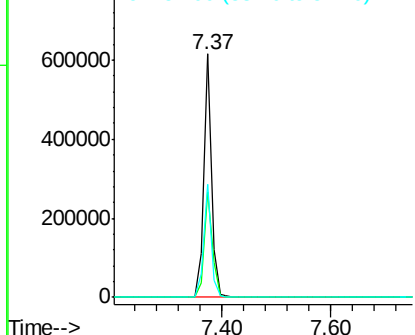
#23
 Nitrobenzene-d5
 Concen: 84.60 ng
 RT: 7.37 min Scan# 445
 Delta R.T. -0.02 min
 Lab File: BF085870.D
 Acq: 30 Mar 2016 1:13

Instrument :
 BNA_F
 ClientSampled :
 B-3

Tgt Ion	Ratio	Lower	Upper
82	100		
128	43.4	41.8	62.8
54	46.5	33.4	50.0

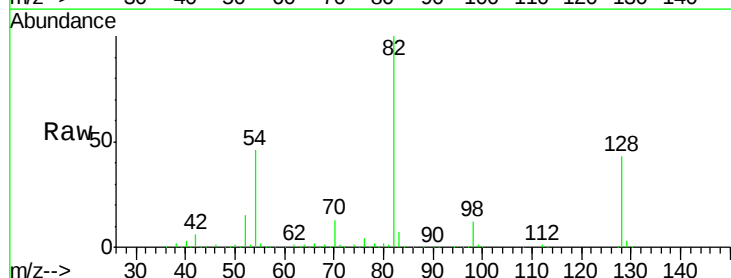


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

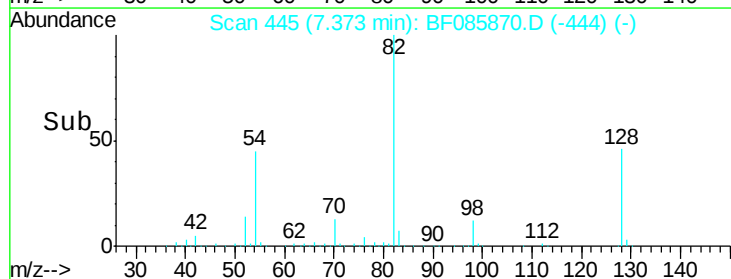
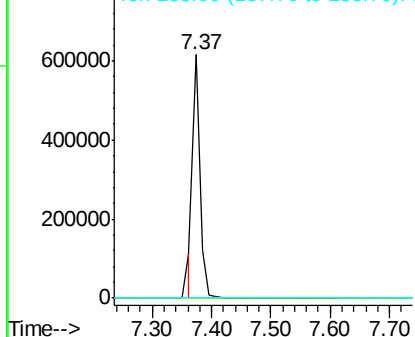


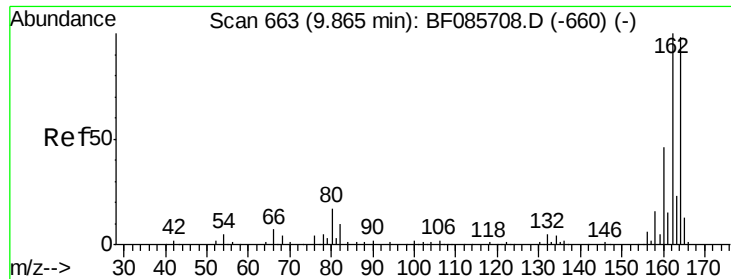
#25
 Isophorone
 Concen: 37.90 ng
 RT: 7.37 min Scan# 445
 Delta R.T. -0.29 min
 Lab File: BF085870.D
 Acq: 30 Mar 2016 1:13

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.4	8.2#
138	0.0	12.9	19.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 95.00 (94.70 to 95.70): BF0
 Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.84 min Scan# 661

Delta R.T. -0.02 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

BNA_F

ClientSampleId :

B-3

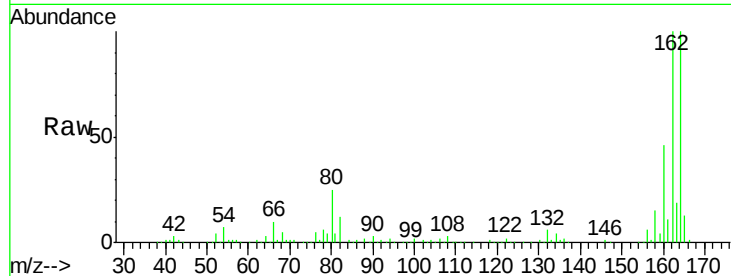
Tgt Ion:164 Resp: 141605

Ion Ratio Lower Upper

164 100

162 99.8 82.1 123.1

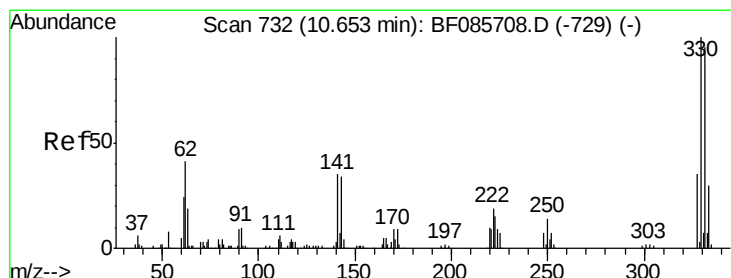
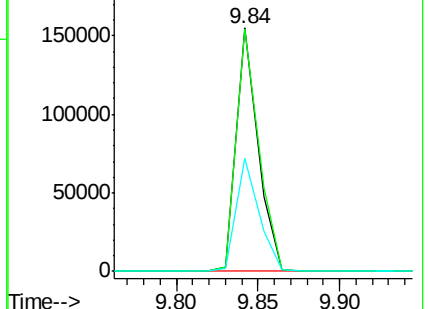
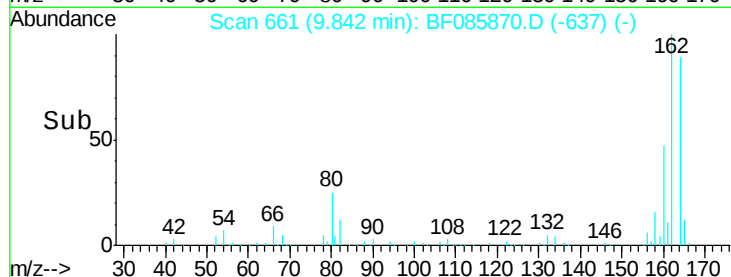
160 46.4 37.4 56.2



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: 121.95 ng

RT: 10.64 min Scan# 731

Delta R.T. -0.01 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

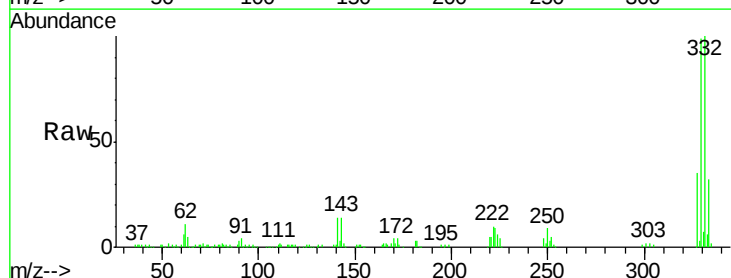
Tgt Ion:330 Resp: 164067

Ion Ratio Lower Upper

330 100

332 99.4 78.2 117.2

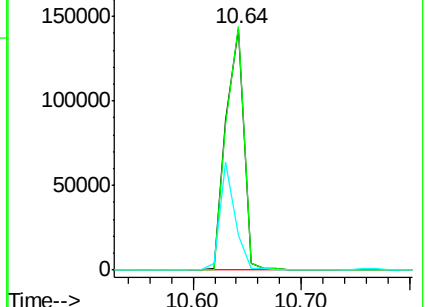
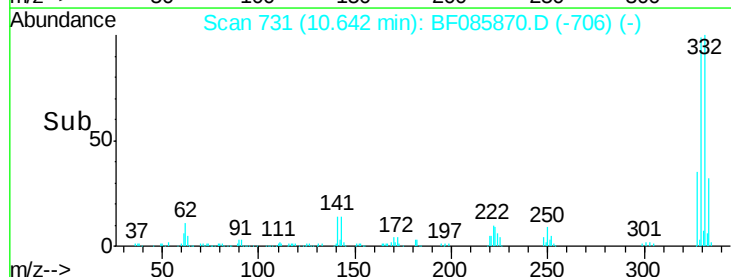
141 38.4 31.5 47.3

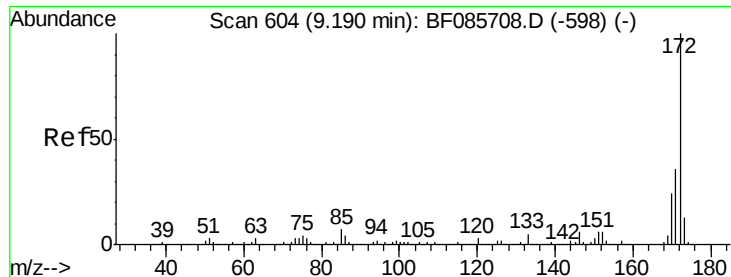


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

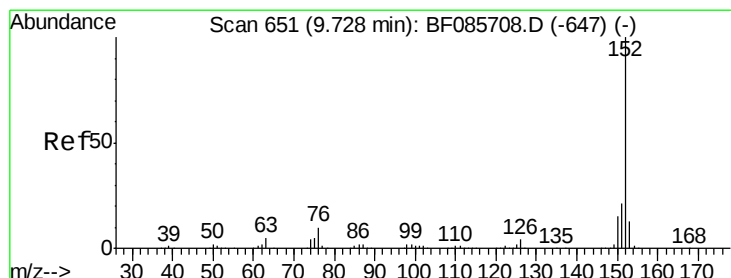
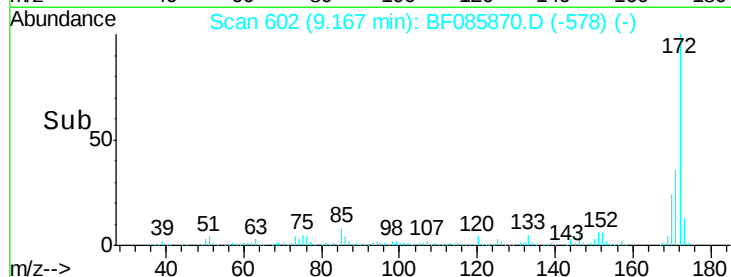
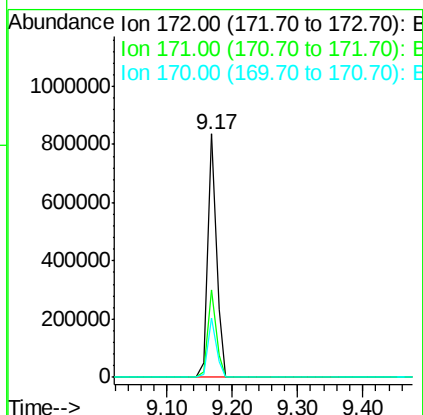
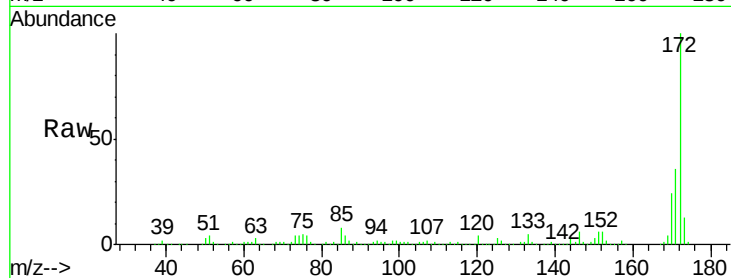




#44
 2-Fluorobiphenyl
 Concen: 91.82 ng
 RT: 9.17 min Scan# 602
 Delta R.T. -0.02 min
 Lab File: BF085870.D
 Acq: 30 Mar 2016 1:13

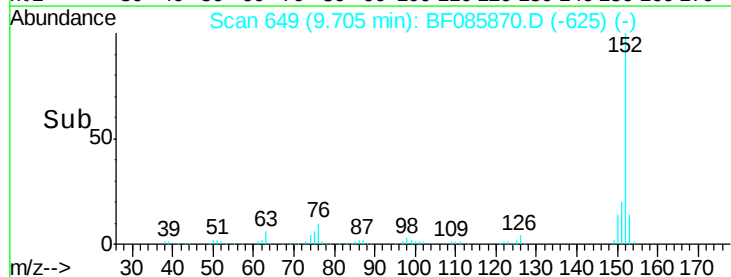
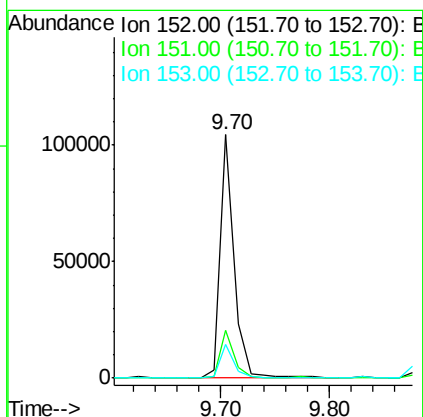
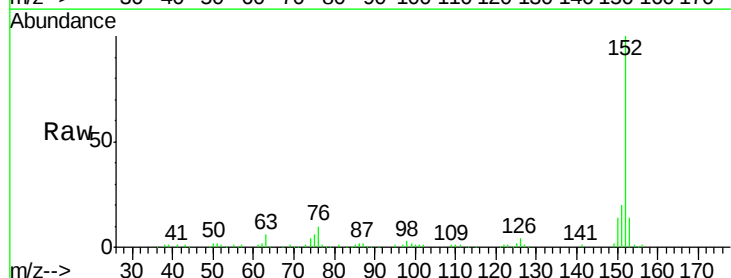
Instrument :
 BNA_F
 ClientSampleId :
 B-3

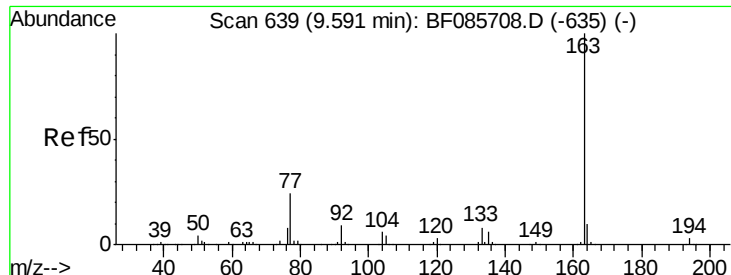
Tgt Ion:172 Resp: 778224
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.4 44.2
 170 24.2 19.8 29.6



#48
 Acenaphthylene
 Concen: 6.59 ng
 RT: 9.70 min Scan# 649
 Delta R.T. -0.02 min
 Lab File: BF085870.D
 Acq: 30 Mar 2016 1:13

Tgt Ion:152 Resp: 94359
 Ion Ratio Lower Upper
 152 100
 151 19.6 16.8 25.2
 153 13.8 10.9 16.3

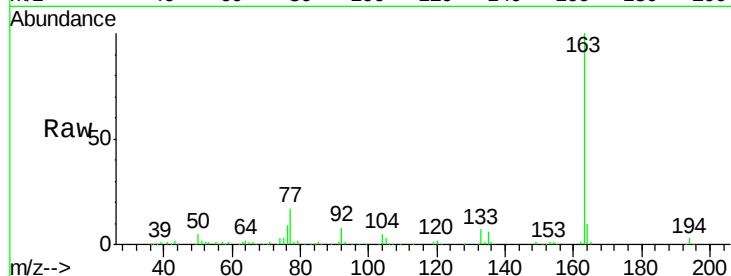




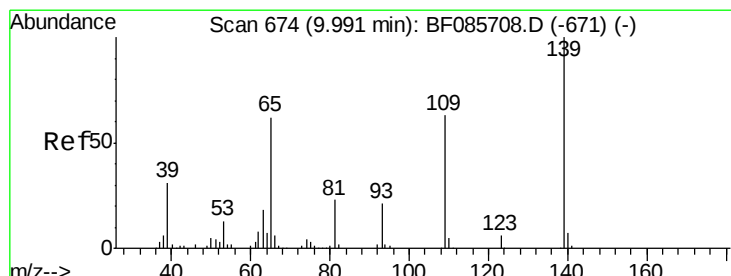
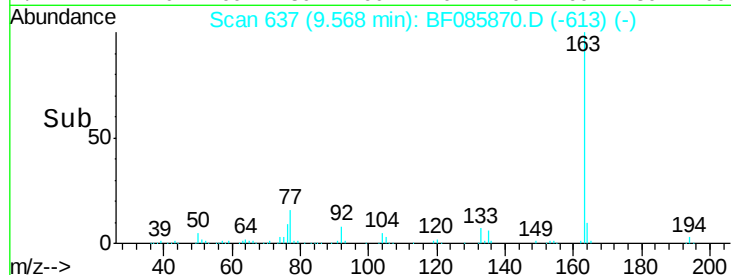
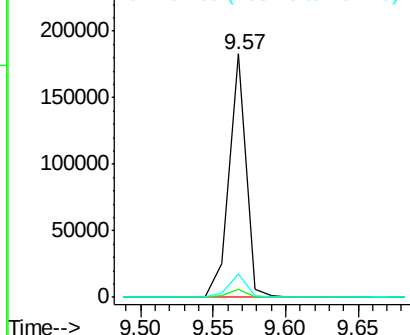
#49
Dimethylphthalate
Concen: 13.80 ng
RT: 9.57 min Scan# 637
Delta R.T. -0.02 min
Lab File: BF085870.D
Acq: 30 Mar 2016 1:13

Instrument :
BNA_F
ClientSampleId :
B-3

Tgt Ion:163 Resp: 148286
Ion Ratio Lower Upper
163 100
194 3.4 2.9 4.3
164 9.9 8.3 12.5

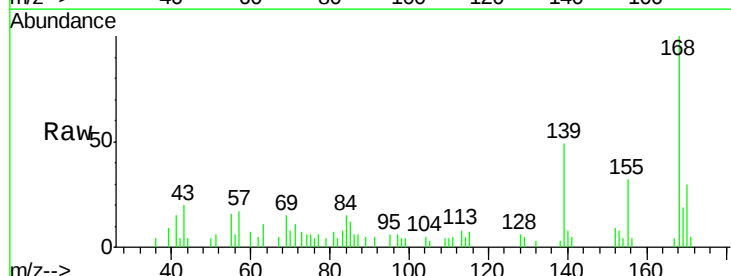


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

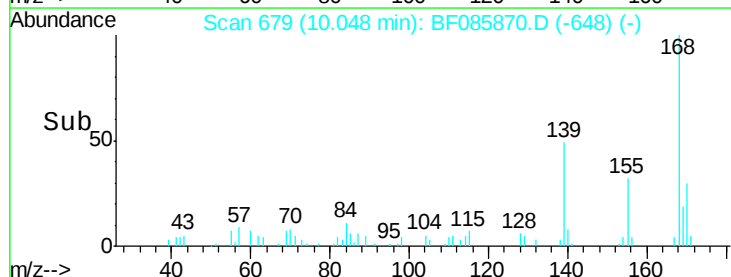
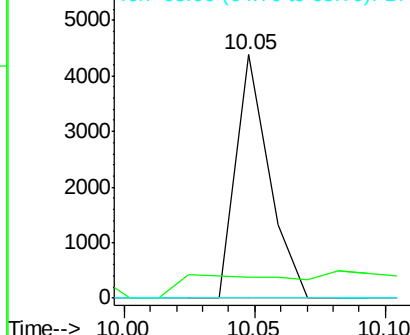


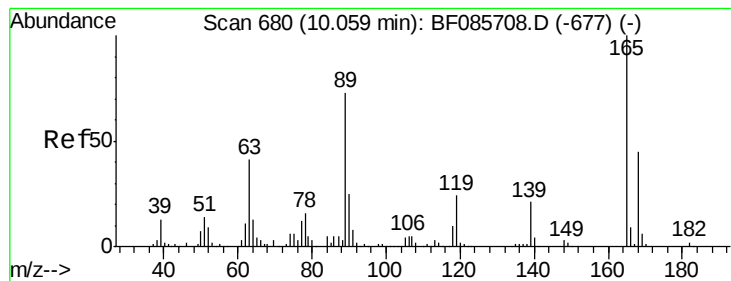
#55
4-Nitrophenol
Concen: 2.27 ng
RT: 10.05 min Scan# 679
Delta R.T. 0.06 min
Lab File: BF085870.D
Acq: 30 Mar 2016 1:13

Tgt Ion:139 Resp: 3914
Ion Ratio Lower Upper
139 100
109 8.7 49.2 89.2#
65 0.0 66.9 106.9#



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





#56

2,4-Dinitrotoluene

Concen: 6.28 ng

RT: 9.84 min Scan# 661

Delta R.T. -0.22 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

BNA_F

ClientSampleId :

B-3

Tgt Ion:165 Resp: 18452

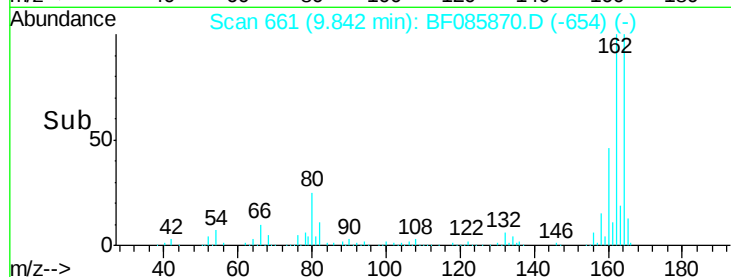
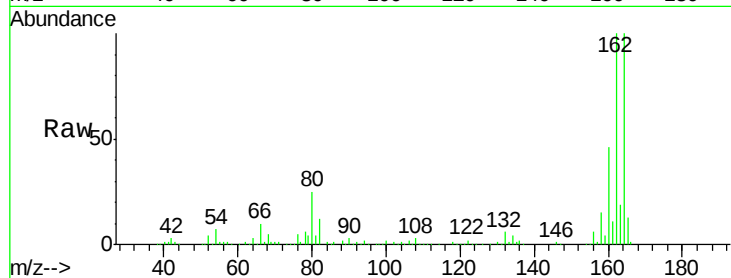
Ion Ratio Lower Upper

165 100

63 1.6 24.9 37.3#

89 2.5 41.0 61.6#

182 0.0 2.1 3.1#

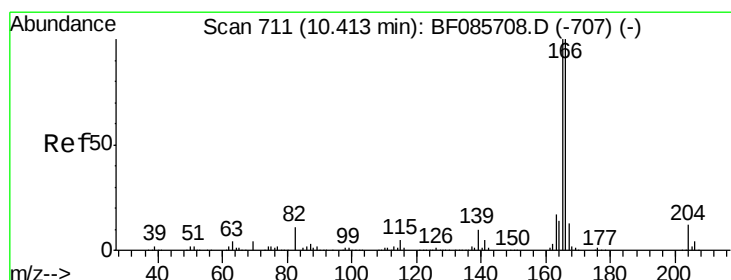
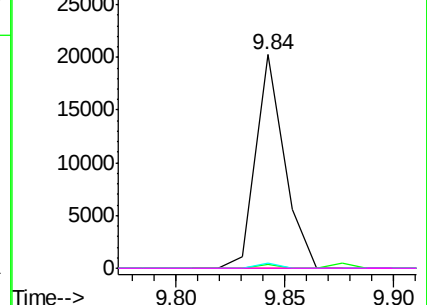


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: 2.42 ng

RT: 10.39 min Scan# 709

Delta R.T. -0.02 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

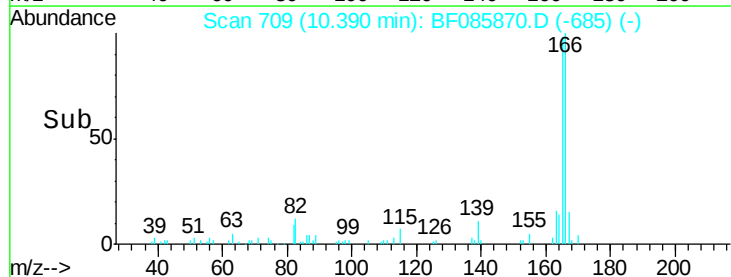
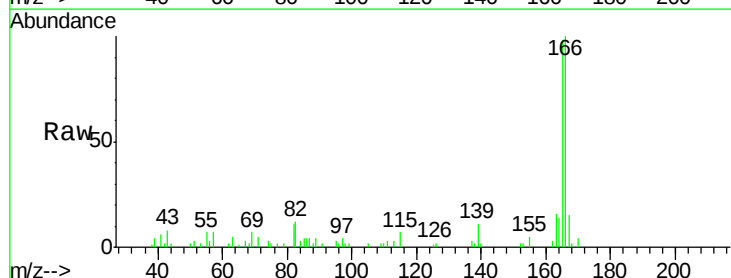
Tgt Ion:166 Resp: 22726

Ion Ratio Lower Upper

166 100

165 97.5 79.4 119.0

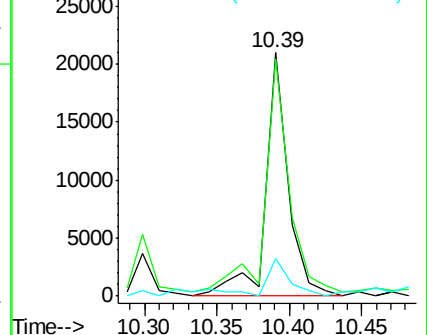
167 15.2 11.0 16.4

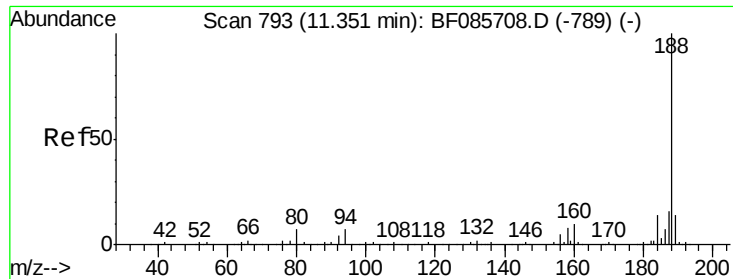


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

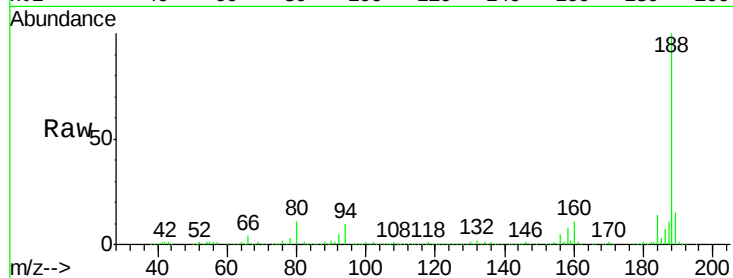




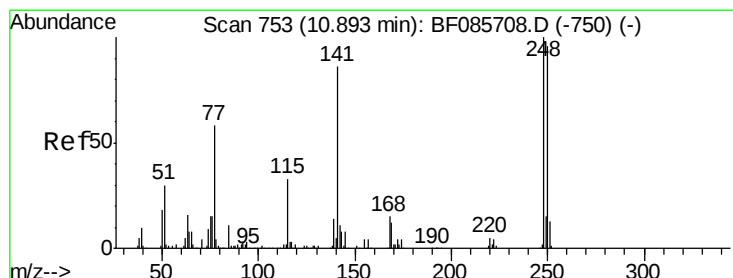
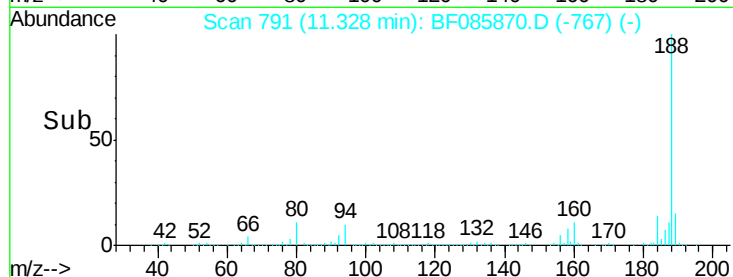
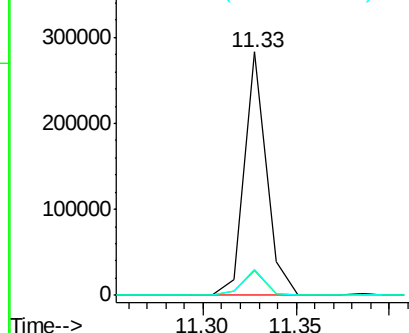
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.33 min Scan# 791
 Delta R.T. -0.02 min
 Lab File: BF085870.D
 Acq: 30 Mar 2016 1:13

Instrument :
 BNA_F
 ClientSampleId :
 B-3

Tgt Ion:188 Resp: 235866
 Ion Ratio Lower Upper
 188 100
 94 10.1 5.4 8.0#
 80 10.7 5.5 8.3#

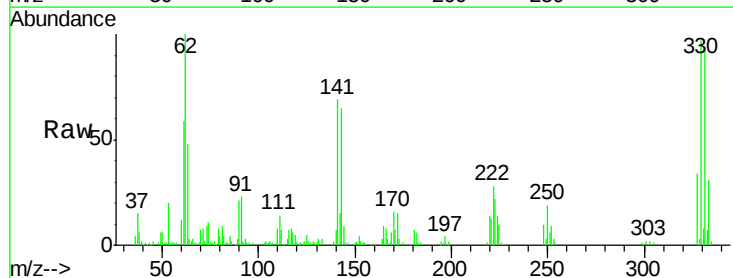


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

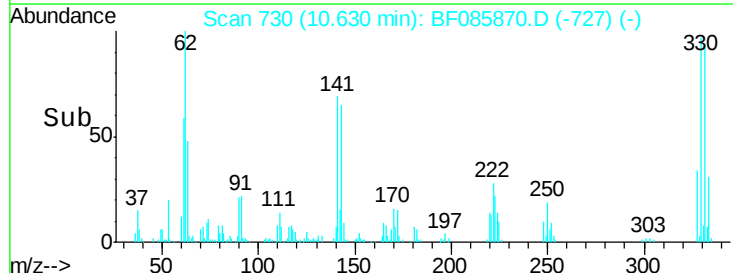
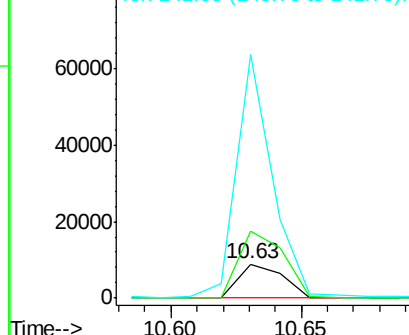


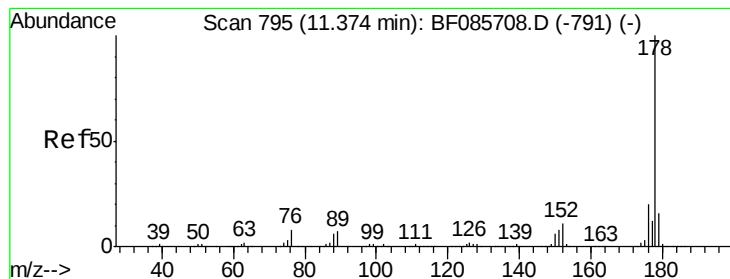
#66
 4-Bromophenyl-phenylether
 Concen: 4.34 ng
 RT: 10.63 min Scan# 730
 Delta R.T. -0.26 min
 Lab File: BF085870.D
 Acq: 30 Mar 2016 1:13

Tgt Ion:248 Resp: 10477
 Ion Ratio Lower Upper
 248 100
 250 197.6 77.4 116.0#
 141 719.9 63.6 95.4#



Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 19.84 ng

RT: 11.35 min Scan# 793

Delta R.T. -0.02 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

BNA_F

ClientSampleId :

B-3

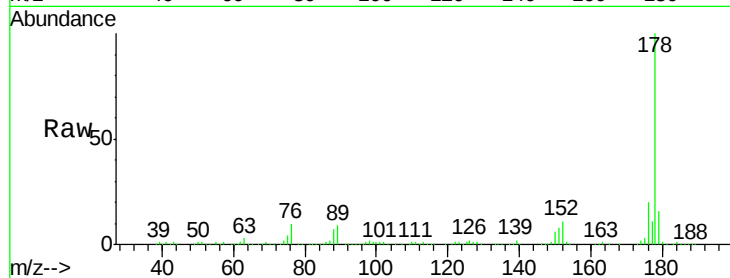
Tgt Ion:178 Resp: 240287

Ion Ratio Lower Upper

178 100

176 19.7 16.3 24.5

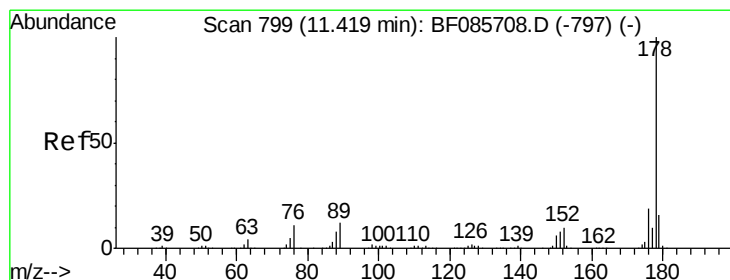
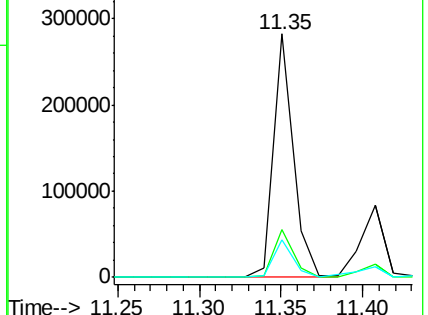
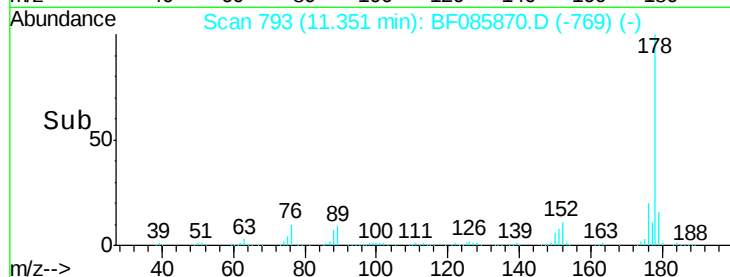
179 15.7 12.6 18.8



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: 6.77 ng

RT: 11.41 min Scan# 798

Delta R.T. -0.01 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

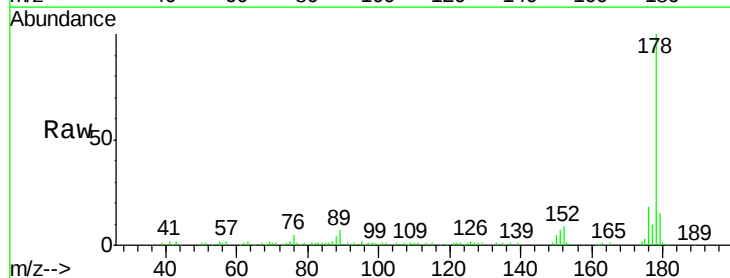
Tgt Ion:178 Resp: 86114

Ion Ratio Lower Upper

178 100

176 18.5 15.9 23.9

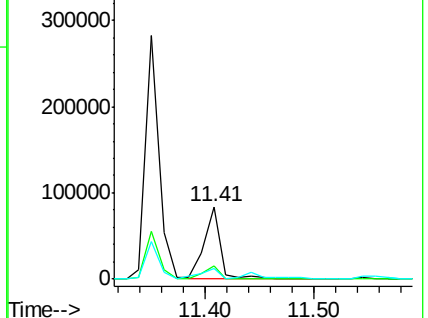
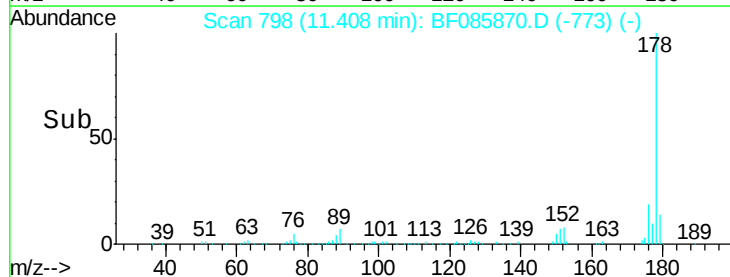
179 14.9 13.0 19.4

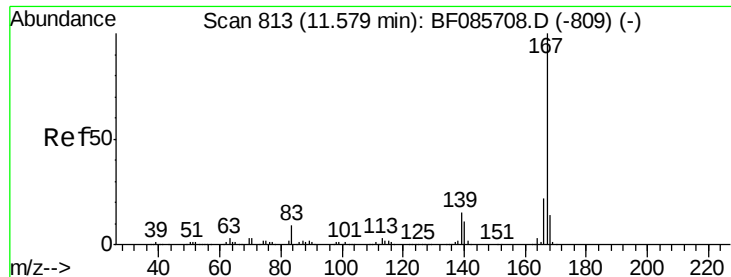


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.39 ng

RT: 11.57 min Scan# 812

Delta R.T. -0.01 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

BNA_F

ClientSampleId :

B-3

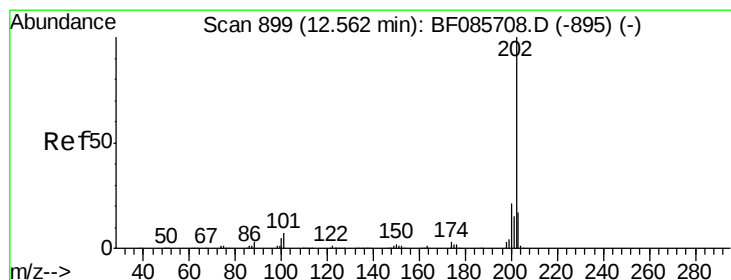
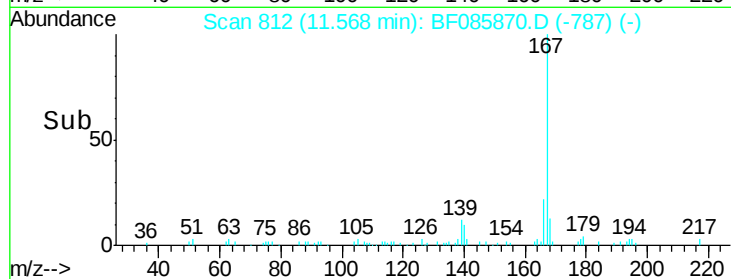
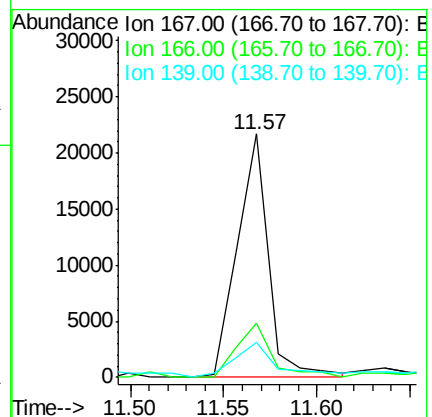
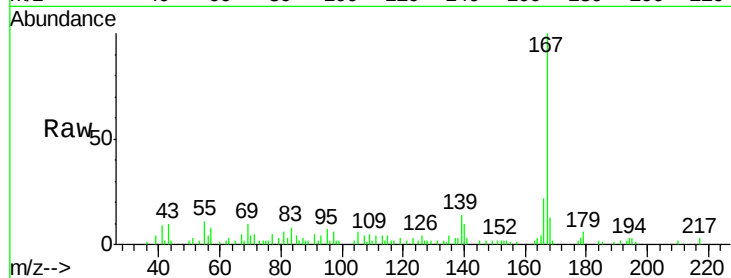
Tgt Ion:167 Resp: 25552

Ion Ratio Lower Upper

167 100

166 22.5 17.8 26.8

139 14.2 11.6 17.4



#74

Fluoranthene

Concen: 37.86 ng

RT: 12.54 min Scan# 897

Delta R.T. -0.02 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

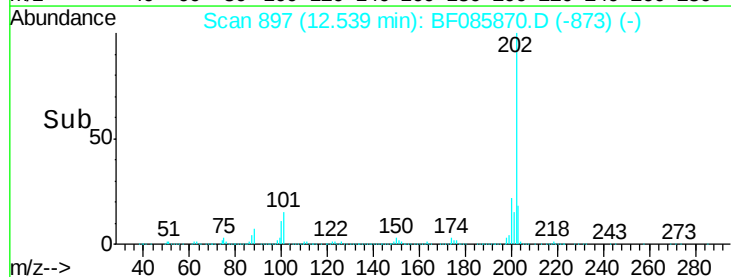
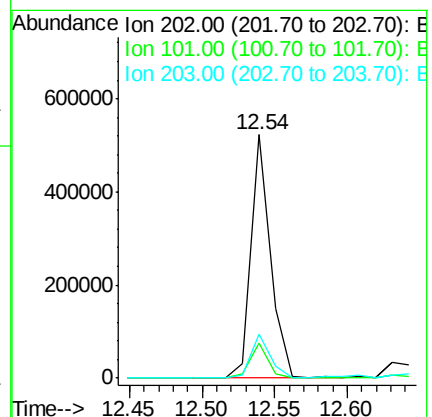
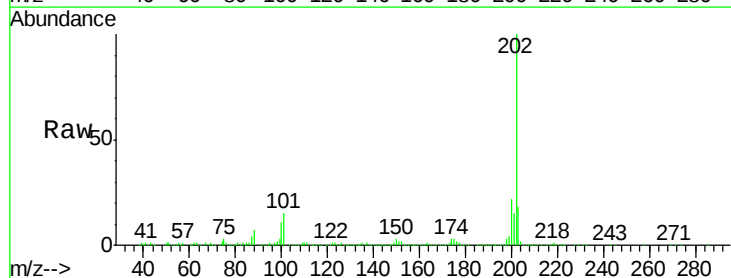
Tgt Ion:202 Resp: 487417

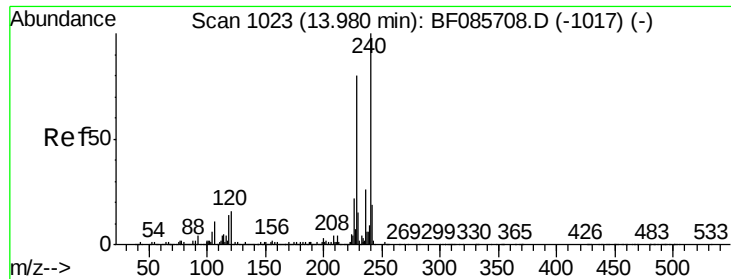
Ion Ratio Lower Upper

202 100

101 14.6 0.0 36.6

203 18.1 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.97 min Scan# 1022

Delta R.T. -0.01 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

BNA_F

ClientSampleId :

B-3

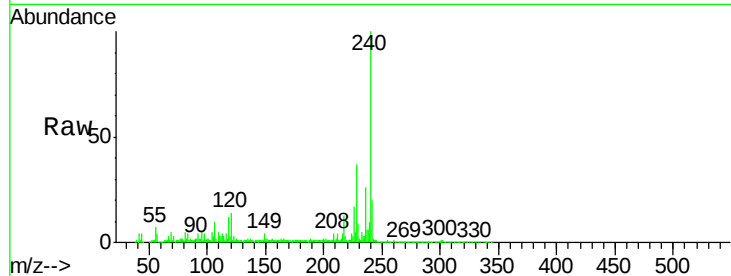
Tgt Ion:240 Resp: 227539

Ion Ratio Lower Upper

240 100

120 14.0 13.8 20.8

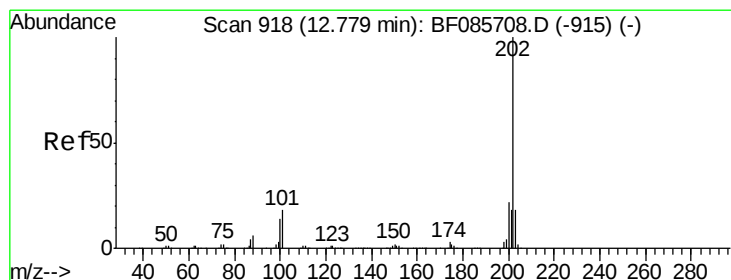
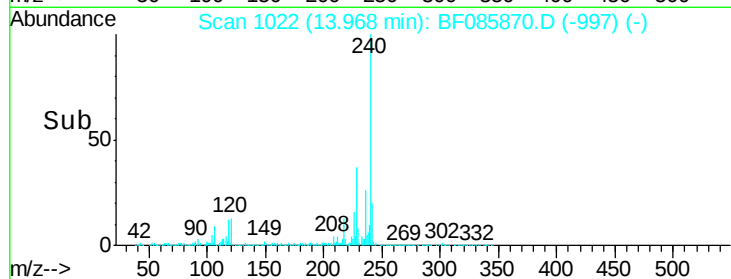
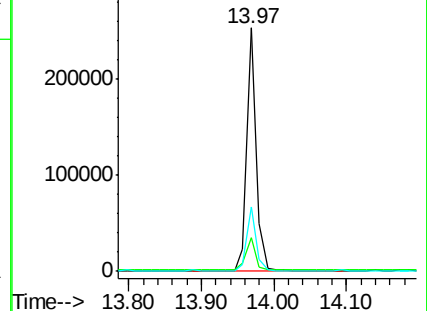
236 26.4 20.6 30.8



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

Pyrene

Concen: 21.84 ng

RT: 12.77 min Scan# 917

Delta R.T. -0.01 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

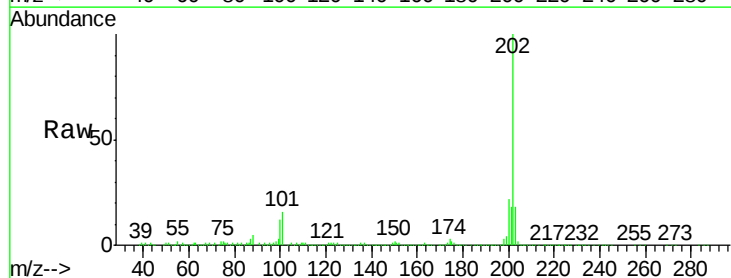
Tgt Ion:202 Resp: 408437

Ion Ratio Lower Upper

202 100

200 21.9 17.6 26.4

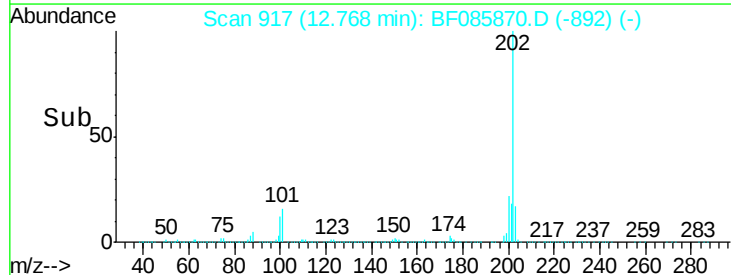
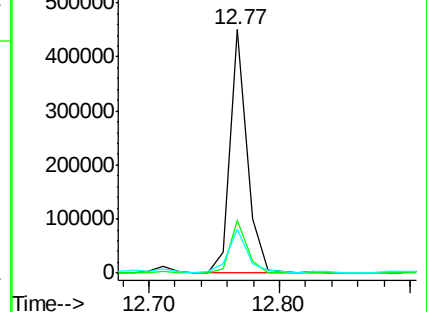
203 17.8 14.0 21.0

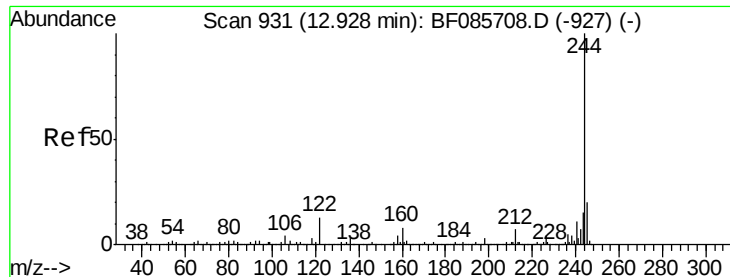


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 52.98 ng

RT: 12.92 min Scan# 930

Delta R.T. -0.01 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

BNA_F

ClientSampleId :

B-3

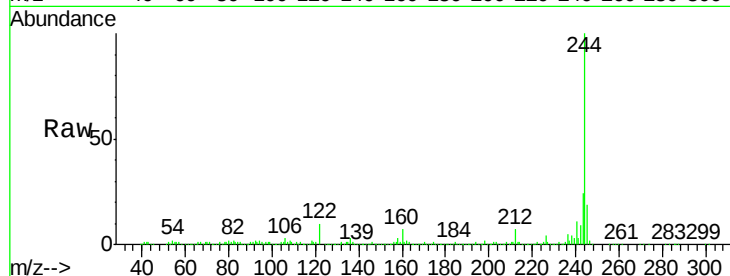
Tgt Ion:244 Resp: 586126

Ion Ratio Lower Upper

244 100

212 7.0 6.1 9.1

122 10.2 10.2 15.4#

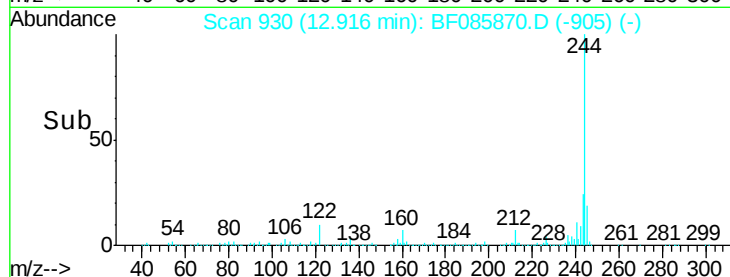


Abundance Ion 244.00 (243.70 to 244.70): E

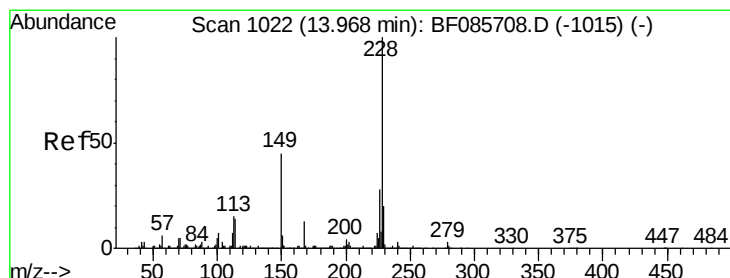
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

12.92



Time-->



#80

Benzo(a)anthracene

Concen: 15.41 ng

RT: 13.99 min Scan# 1024

Delta R.T. 0.02 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

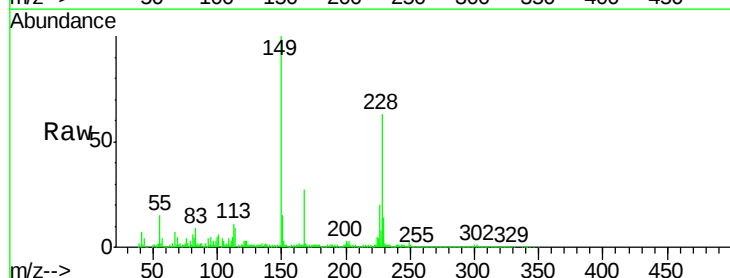
Tgt Ion:228 Resp: 199957

Ion Ratio Lower Upper

228 100

226 31.5 22.1 33.1

229 22.9 16.2 24.4

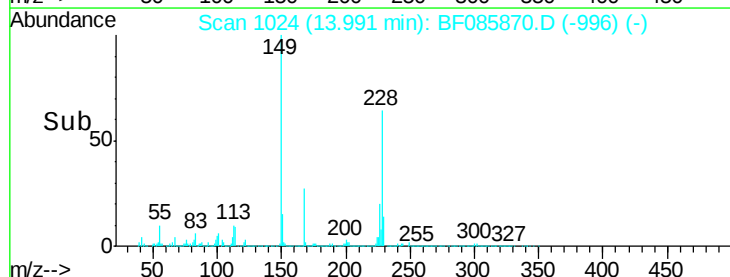


Abundance Ion 228.00 (227.70 to 228.70): E

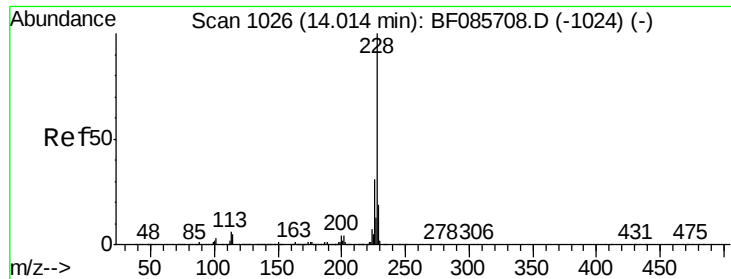
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

13.99



Time-->



#82

Chrysene

Concen: 15.30 ng

RT: 13.99 min Scan# 1024

Delta R.T. -0.02 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

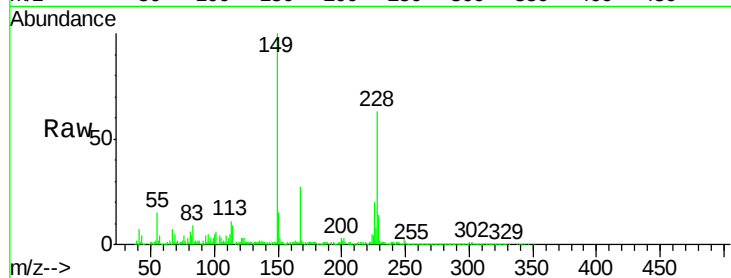
BNA_F

ClientSampleId :

B-3

Tgt Ion: 228 Resp: 199947

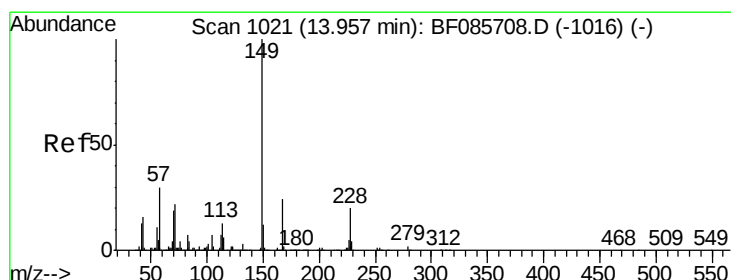
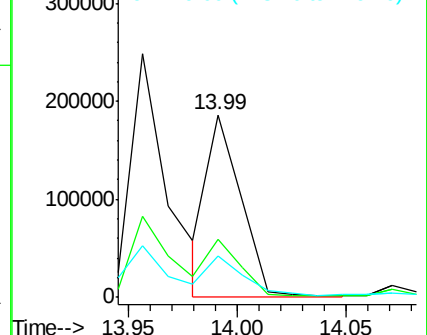
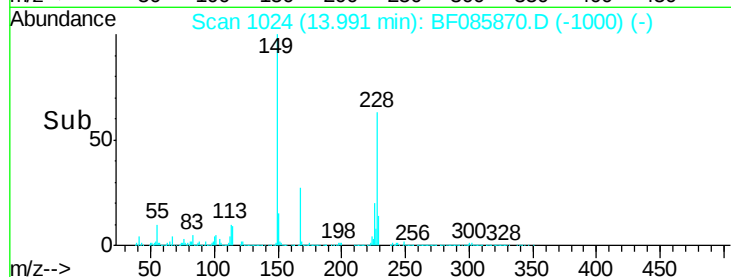
Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.0	37.6
229	22.9	15.7	23.5



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 49.96 ng

RT: 13.99 min Scan# 1024

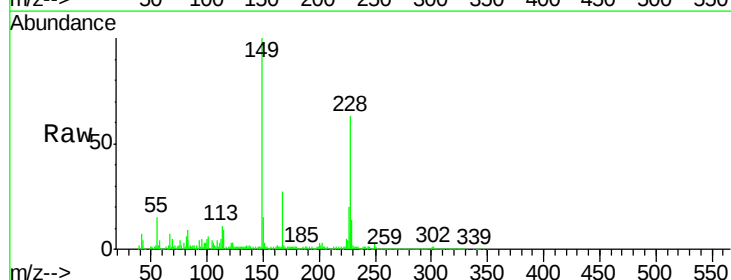
Delta R.T. 0.03 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Tgt Ion: 149 Resp: 468561

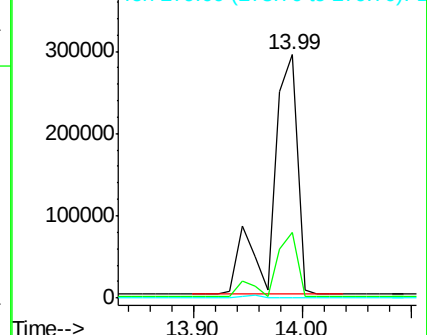
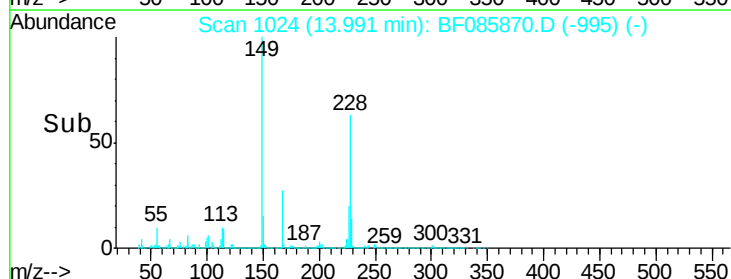
Ion	Ratio	Lower	Upper
149	100		
167	27.0	19.4	29.2
279	0.2	1.5	2.3#

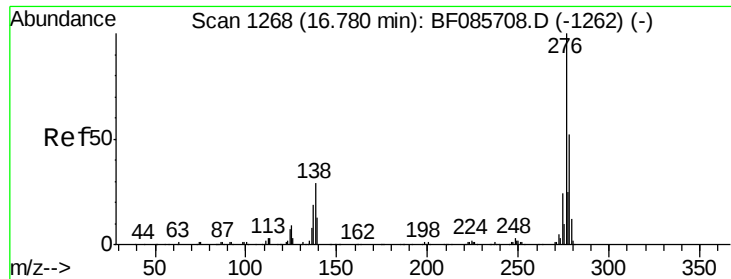


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

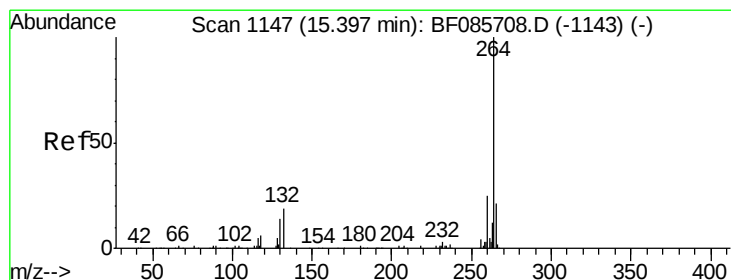
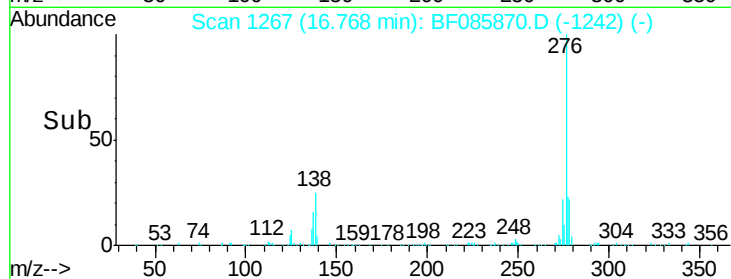
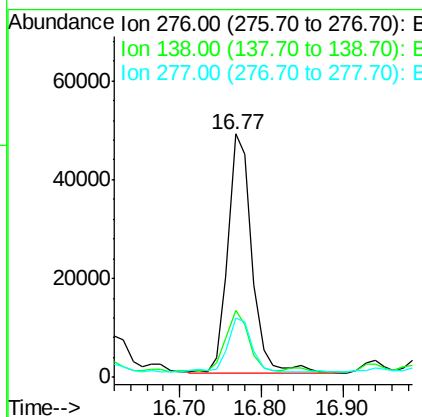
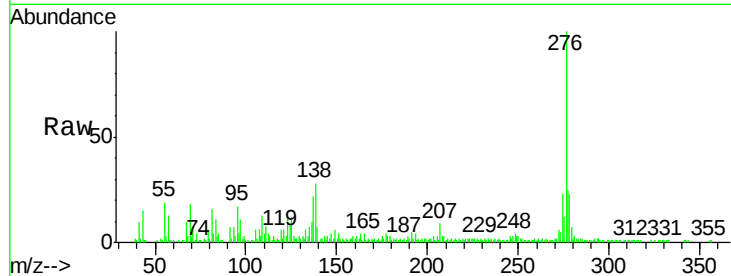




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.91 ng
 RT: 16.77 min Scan# 1267
 Delta R.T. -0.01 min
 Lab File: BF085870.D
 Acq: 30 Mar 2016 1:13

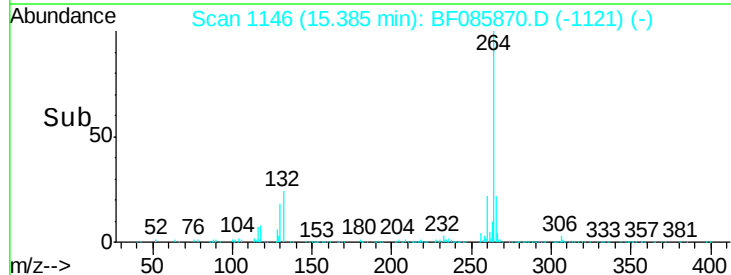
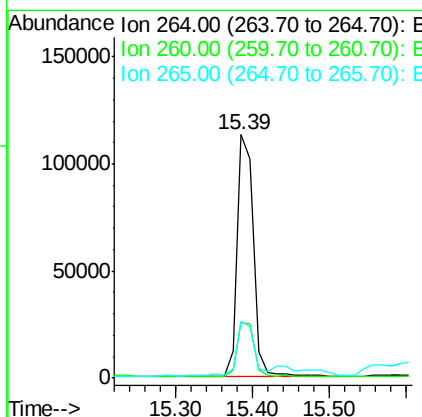
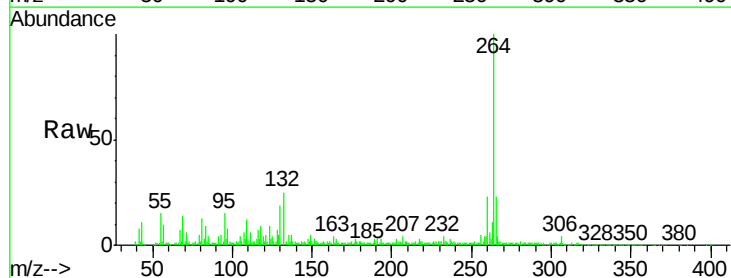
Instrument :
 BNA_F
 ClientSampleId :
 B-3

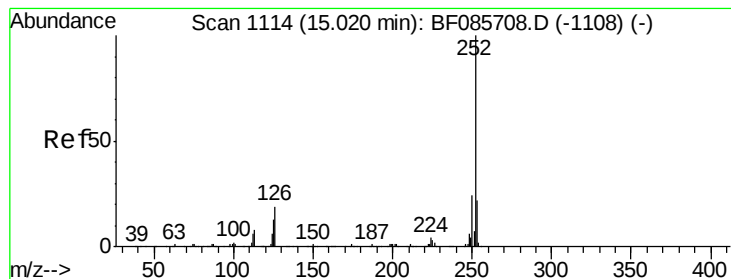
Tgt Ion: 276 Resp: 99971
 Ion Ratio Lower Upper
 276 100
 138 23.2 24.2 36.4#
 277 22.5 20.0 30.0



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.39 min Scan# 1146
 Delta R.T. -0.01 min
 Lab File: BF085870.D
 Acq: 30 Mar 2016 1:13

Tgt Ion: 264 Resp: 169739
 Ion Ratio Lower Upper
 264 100
 260 22.8 19.4 29.2
 265 23.2 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 35.17 ng

RT: 14.99 min Scan# 1111

Delta R.T. -0.01 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

BNA_F

ClientSampleId :

B-3

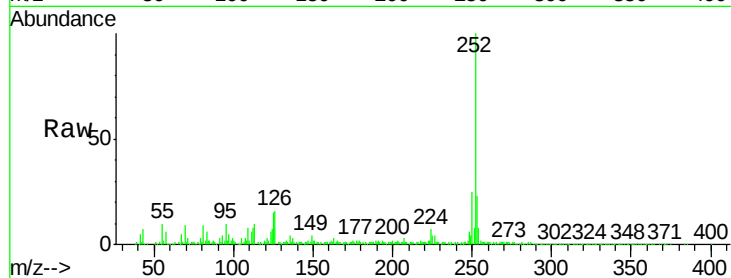
Tgt Ion:252 Resp: 376074

Ion Ratio Lower Upper

252 100

253 23.1 17.6 26.4

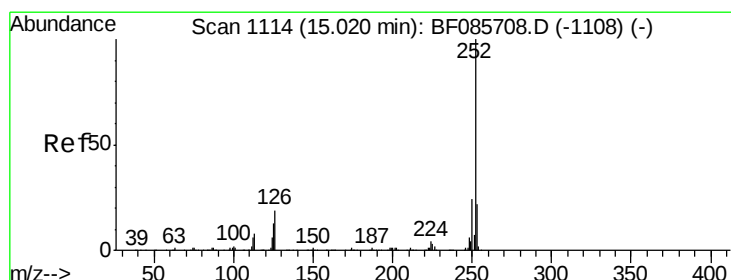
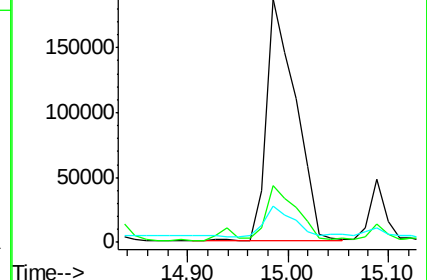
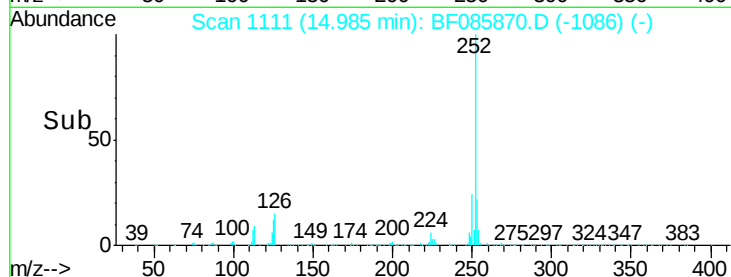
125 14.9 10.3 15.5



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: 39.01 ng

RT: 14.99 min Scan# 1111

Delta R.T. -0.03 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

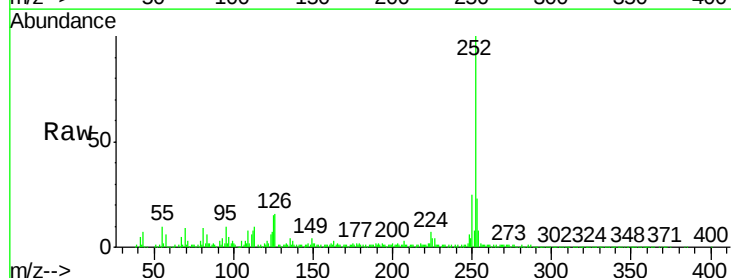
Tgt Ion:252 Resp: 376074

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.6

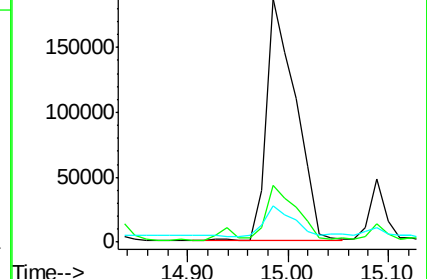
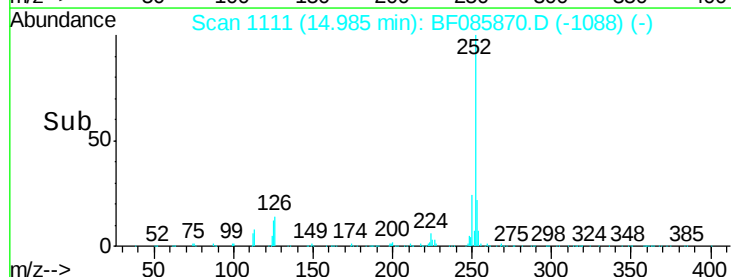
125 14.9 7.7 11.5#

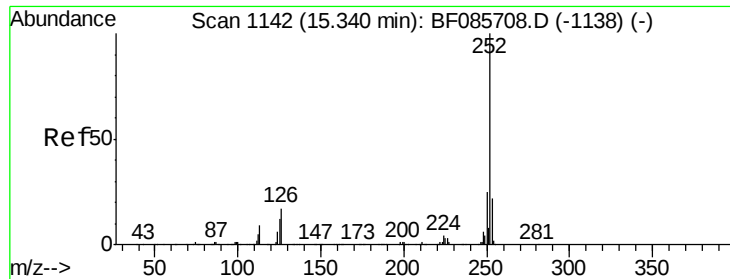


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 18.34 ng

RT: 15.33 min Scan# 1141

Delta R.T. -0.01 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

BNA_F

ClientSampleId :

B-3

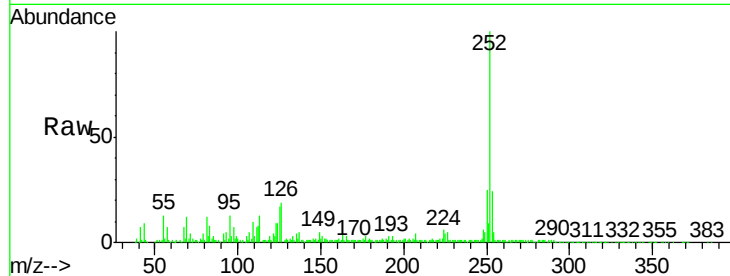
Tgt Ion:252 Resp: 174111

Ion Ratio Lower Upper

252 100

253 24.0 17.4 26.0

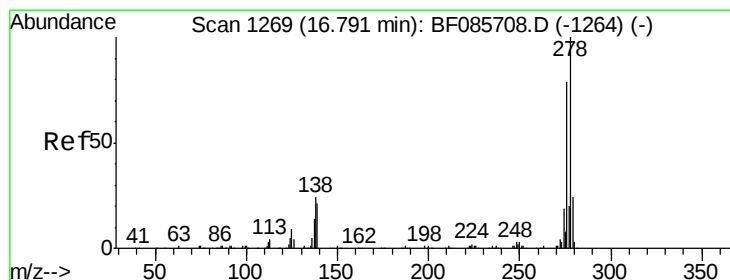
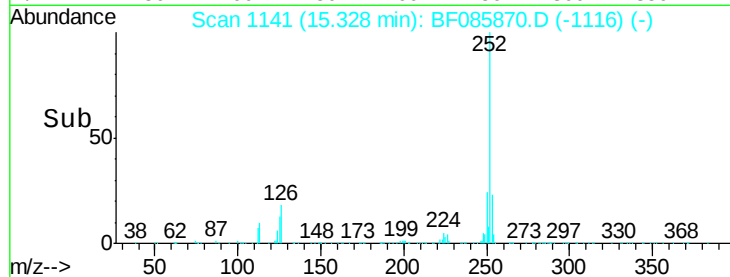
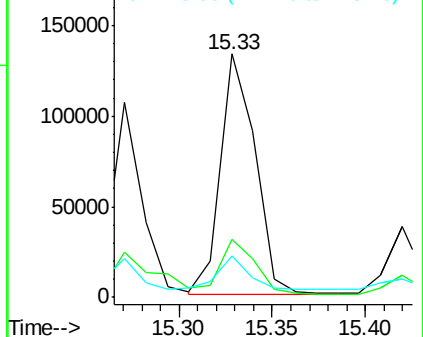
125 16.9 10.3 15.5#



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: 3.12 ng

RT: 16.78 min Scan# 1268

Delta R.T. -0.01 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

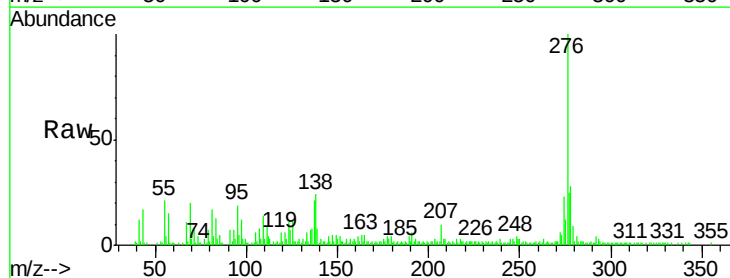
Tgt Ion:278 Resp: 27492

Ion Ratio Lower Upper

278 100

139 30.1 14.4 21.6#

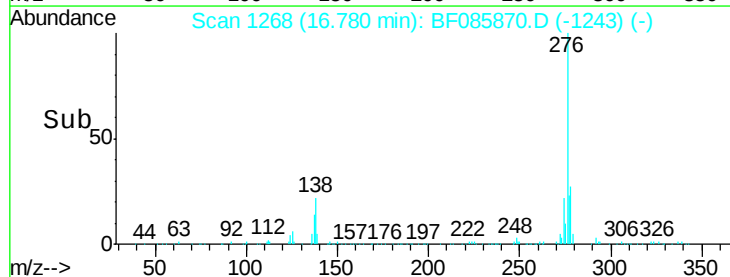
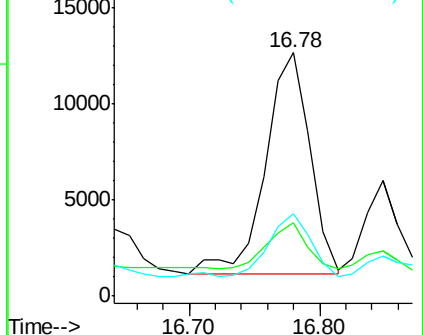
279 33.6 19.1 28.7#

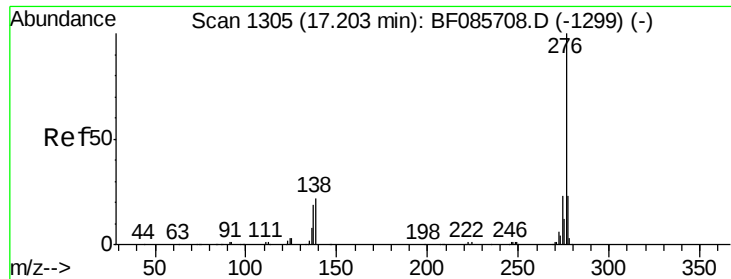


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 9.69 ng

RT: 17.19 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF085870.D

Acq: 30 Mar 2016 1:13

Instrument :

BNA_F

ClientSampleId :

B-3

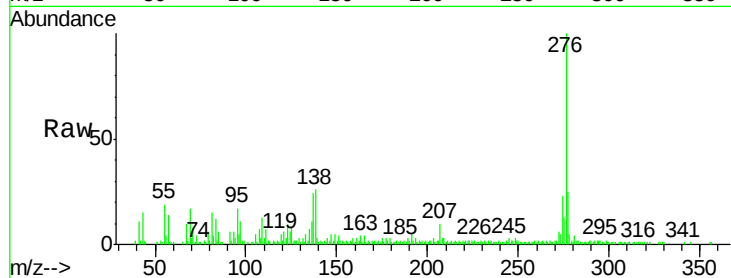
Tgt Ion: 276 Resp: 86511

Ion Ratio Lower Upper

276 100

277 24.7 18.8 28.2

138 25.6 22.6 34.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

