

Data Path : Z:\HPCHEM1\BNA F\DATA\BF043017\
 Data File : BF094741.D
 Acq On : 1 May 2017 4:41
 Operator : SJ/MA
 Sample : I2902-06
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MW-7BD

Quant Time: May 01 05:46:12 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	5.77	152	113186	20.00	ng	0.00
21) Naphthalene-d8	7.28	136	220477	20.00	ng	0.02
38) Acenaphthene-d10	9.40	164	204812	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	338179	20.00	ng	0.00
75) Chrysene-d12	14.48	240	228484	20.00	ng	0.00
86) Perylene-d12	16.11	264	209278	20.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	4.35	112	1063661	155.91	ng	0.04
7) Phenol-d6	5.42	99	1001865	124.57	ng	0.03
23) Nitrobenzene-d5	6.43	82	1144037	320.41	ng	0.01
41) 2,4,6-Tribromophenol	10.38	330	361392	225.59	ng	0.00
44) 2-Fluorobiphenyl	8.59	172	1823521	131.00	ng	0.00
78) Terphenyl-d14	13.20	244	1409228	164.86	ng	0.00

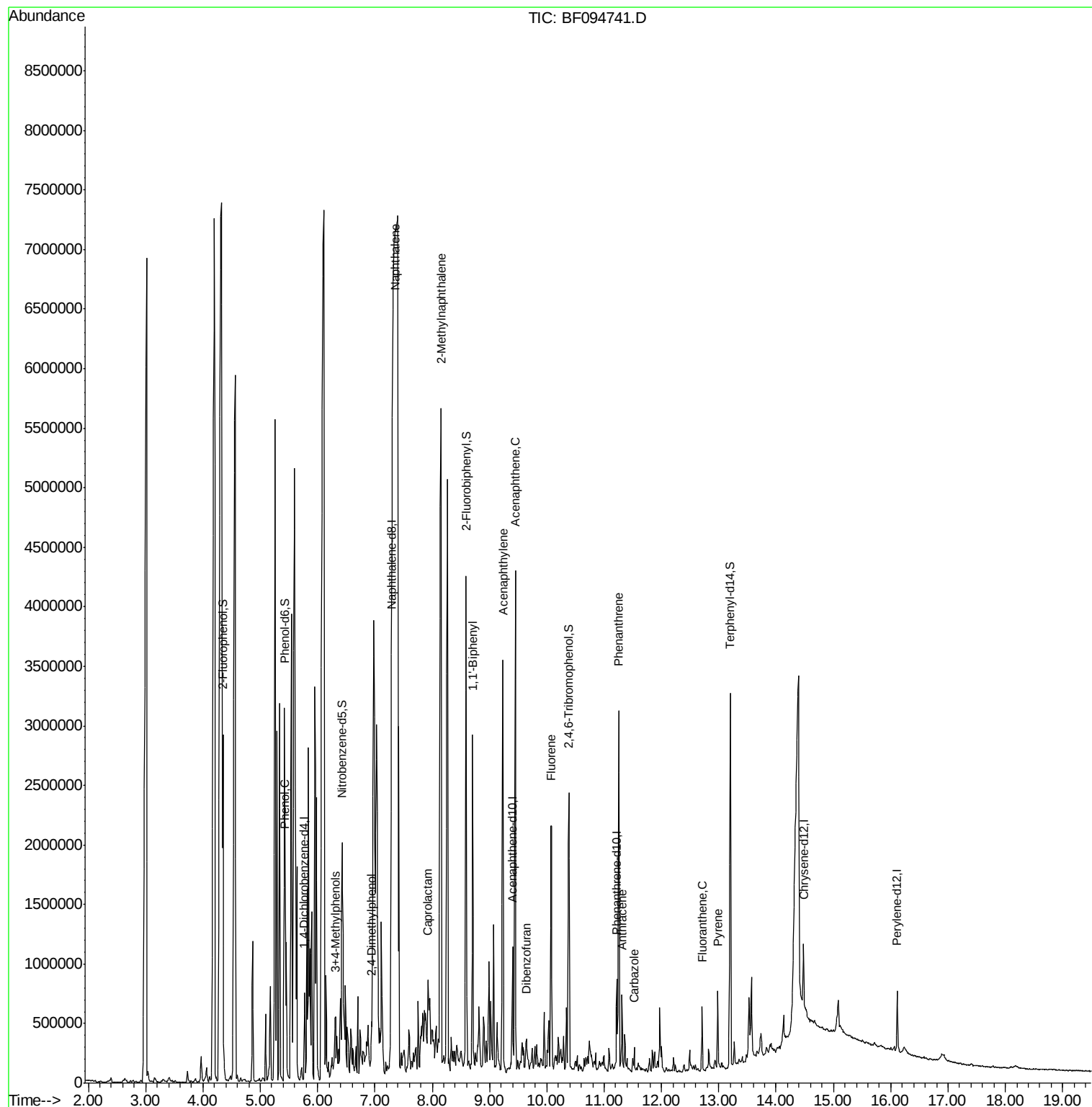
Target Compounds					Qvalue	
10) Phenol	5.44	94	107235	10.85	ng	90
20) 3+4-Methylphenols	6.31	107	136685	16.45	ng	# 67
27) 2,4-Dimethylphenol	6.94	122	122303	37.27	ng	98
31) Naphthalene	7.36	128	21554322	2033.58	ng	97
35) Caprolactam	7.93	113	56481	58.90	ng	95
37) 2-Methylnaphthalene	8.15	142	2595256	357.89	ng	99
45) 1,1'-Biphenyl	8.71	154	959212	57.32	ng	98
48) Acenaphthylene	9.24	152	1870595	90.18	ng	99
51) Acenaphthene	9.45	154	1284964	103.43	ng	99
54) Dibenzofuran	9.65	168	73501	4.07	ng	97
57) Fluorene	10.08	166	726697	51.68	ng	99
70) Phenanthrene	11.25	178	1429913	75.09	ng	99
71) Anthracene	11.31	178	252794	12.83	ng	99
72) Carbazole	11.52	167	74501	4.03	ng	98
74) Fluoranthene	12.71	202	234713	11.89	ng	98
77) Pyrene	12.98	202	292086	18.30	ng	98

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

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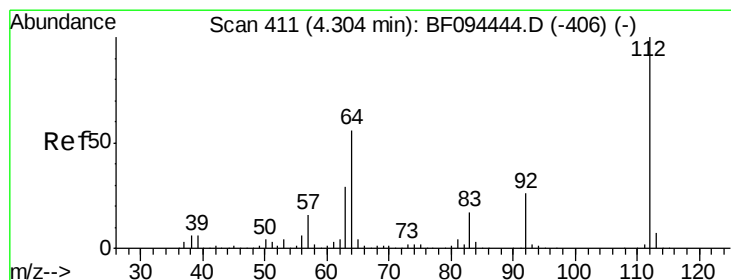
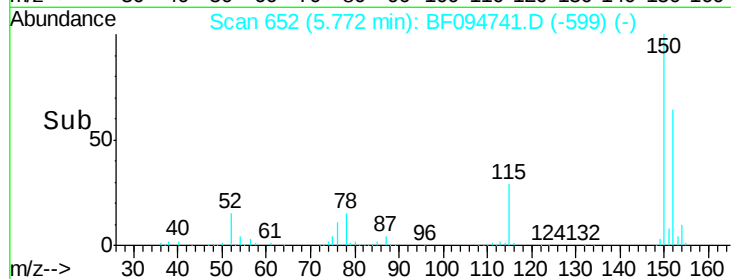
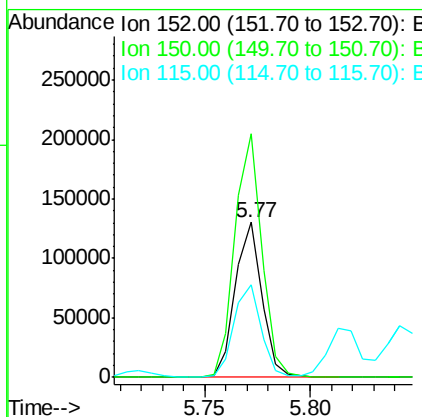
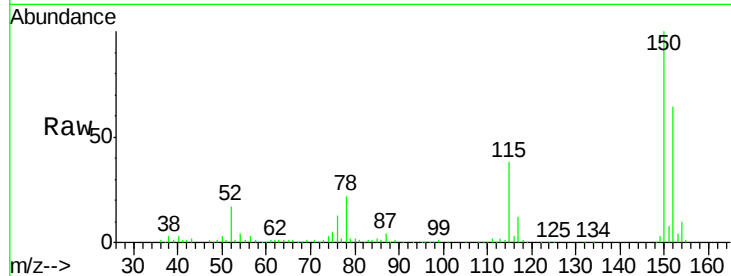


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.77 min Scan# 652
Delta R.T. 0.01 min
Lab File: BF094741.D
Acq: 1 May 2017 4:41

Instrument :
BNA_F
ClientSampleId :
MW-7BD

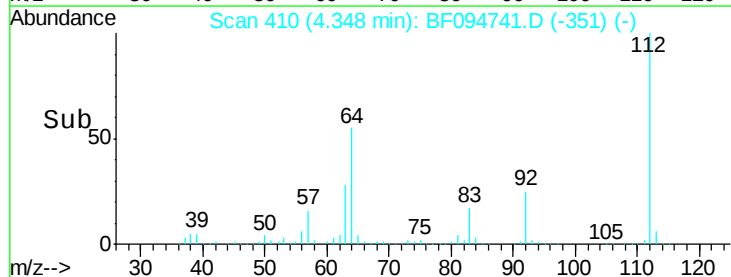
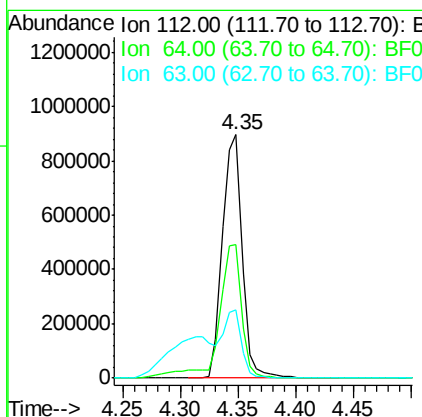
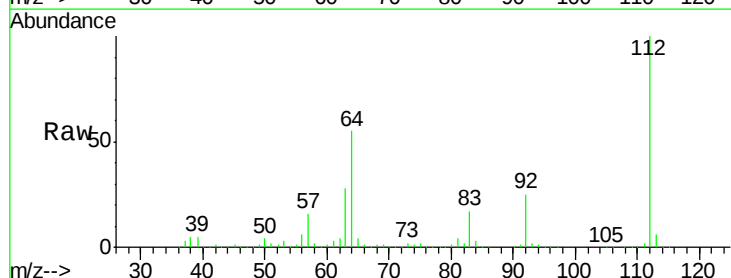
Tot Ion:152 Resp: 113186
Ion Ratio Lower Upper
152 100
150 157.3 126.2 189.2
115 59.7 52.2 78.2

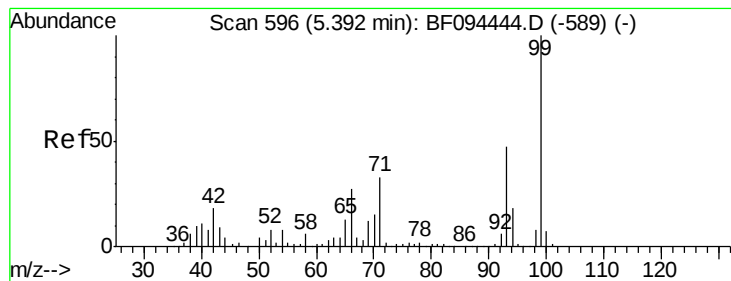


#5

2-Fluorophenol
Concen: 155.91 ng
RT: 4.35 min Scan# 410
Delta R.T. 0.04 min
Lab File: BF094741.D
Acq: 1 May 2017 4:41

Tgt Ion:112 Resp: 1063661
Ion Ratio Lower Upper
112 100
64 54.8 46.0 69.0
63 28.0 23.4 35.0





#7

Phenol-d6

Concen: 124.57 ng

RT: 5.42 min Scan# 593

Delta R.T. 0.03 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

Instrument :

BNA_F

ClientSampleId :

MW-7BD

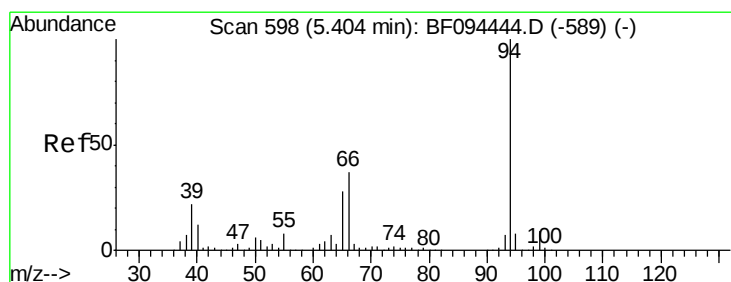
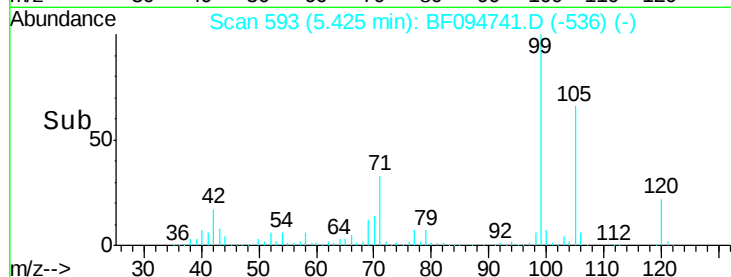
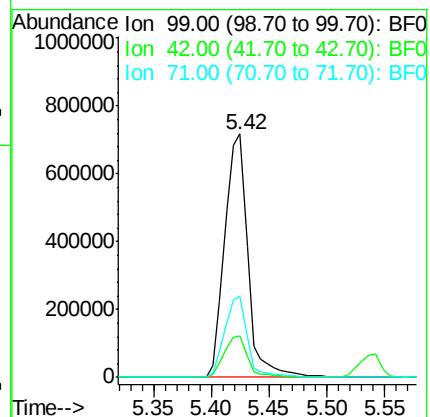
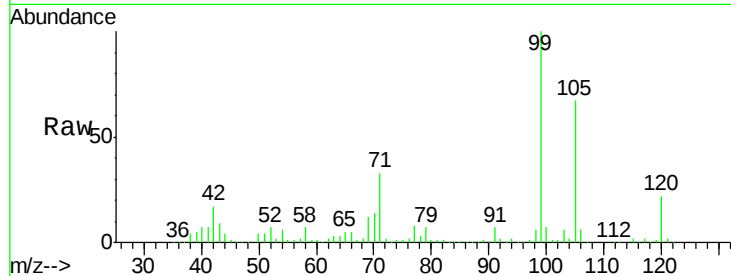
Tot Ion: 99 Resp: 1001865

Ion	Ratio	Lower	Upper
99	100		
42	16.9	13.5	20.3
71	33.2	24.5	36.7

99 100

42 16.9 13.5 20.3

71 33.2 24.5 36.7



#10

Phenol

Concen: 10.85 ng

RT: 5.44 min Scan# 595

Delta R.T. 0.03 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

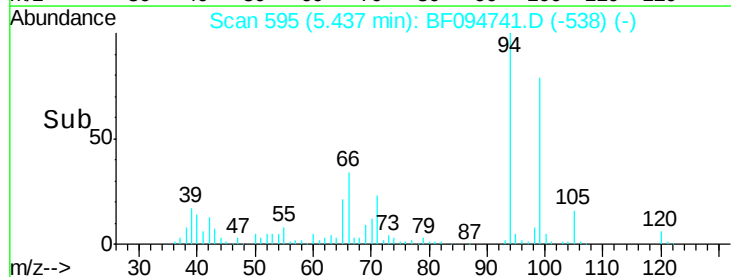
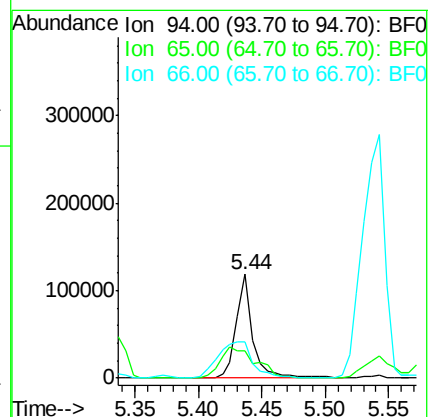
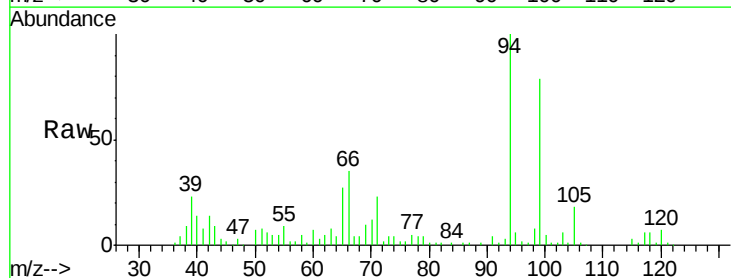
Tgt Ion: 94 Resp: 107235

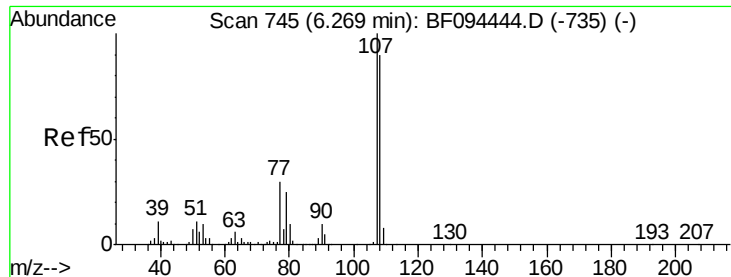
Ion	Ratio	Lower	Upper
94	100		
65	26.9	9.9	49.9
66	35.0	23.1	63.1

94 100

65 26.9 9.9 49.9

66 35.0 23.1 63.1





#20

3+4-Methylphenols

Concen: 16.45 ng

RT: 6.31 min Scan# 743

Delta R.T. 0.04 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

Instrument :

BNA_F

ClientSampleId :

MW-7BD

Tot Ion:107 Resp: 136685

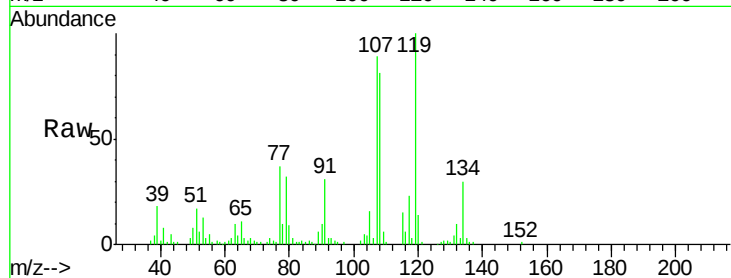
Ion Ratio Lower Upper

107 100

108 90.9 71.0 111.0

77 41.9 90.5 130.5#

79 35.9 8.4 48.4



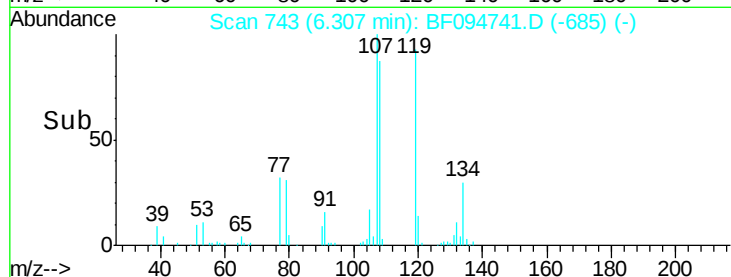
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

Time-->



Abundance

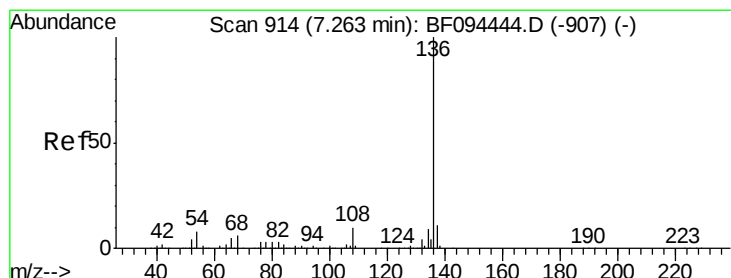
Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.28 min Scan# 909

Delta R.T. 0.02 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

Tgt Ion:136 Resp: 220477

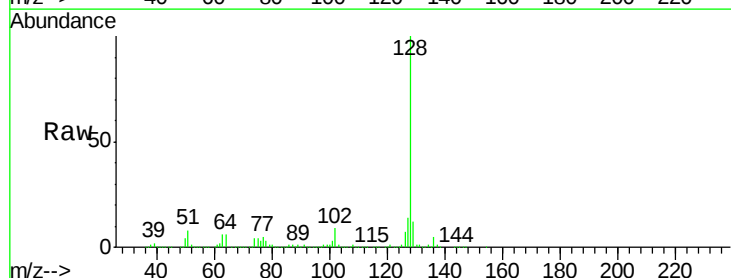
Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 7.7 4.9 7.3#

68 6.7 4.1 6.1#



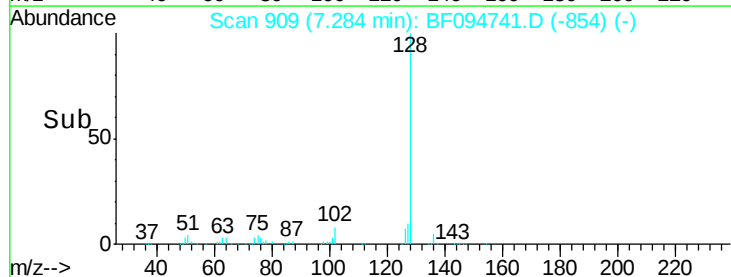
Abundance Ion 136.00 (135.70 to 136.70): E

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

Time-->



Abundance

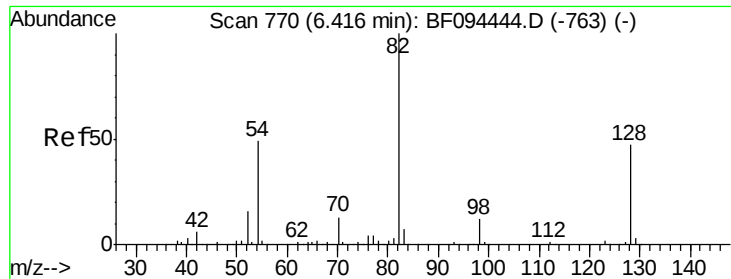
Ion 136.00 (135.70 to 136.70): E

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

Time-->

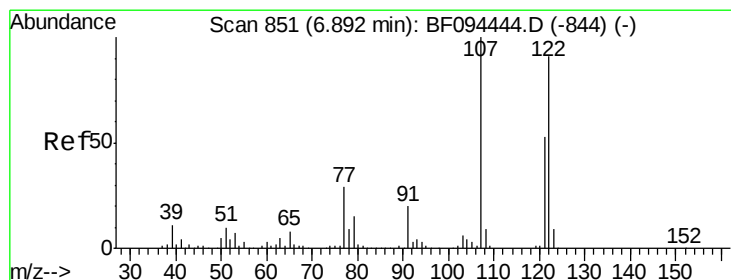
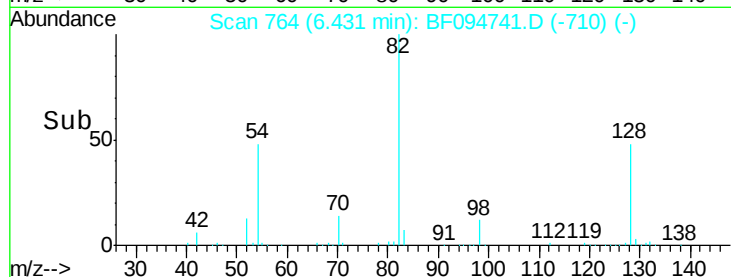
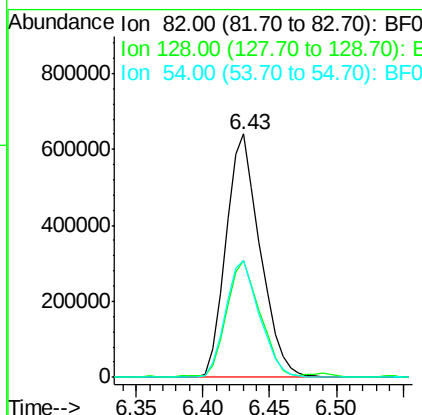
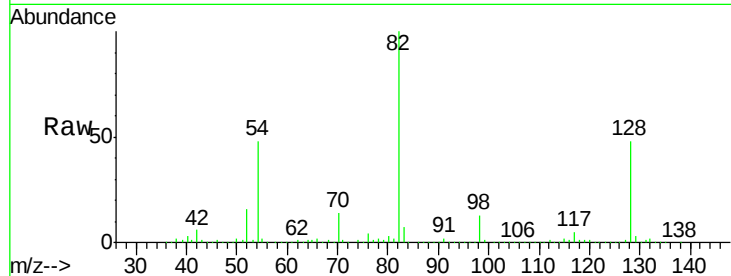


#23
 Nitrobenzene-d5
 Concen: 320.41 ng
 RT: 6.43 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: BF094741.D
 Acq: 1 May 2017 4:41

Instrument :
 BNA_F
 ClientSampleId :
 MW-7BD

Tot Ion: 82 Resp: 1144037

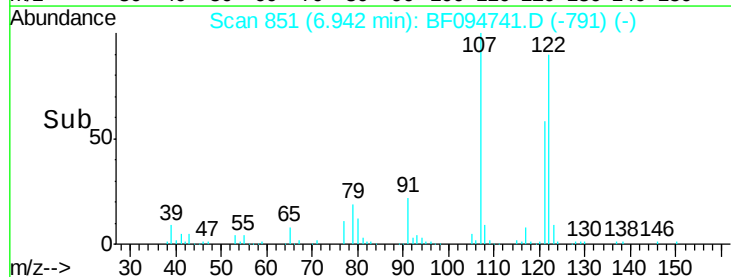
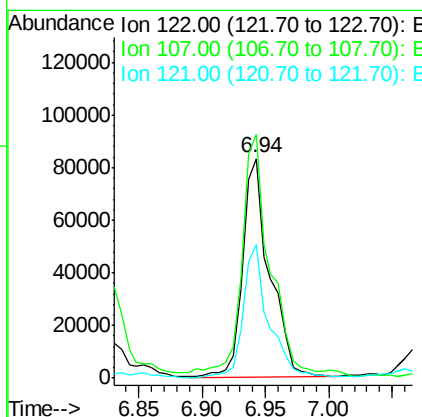
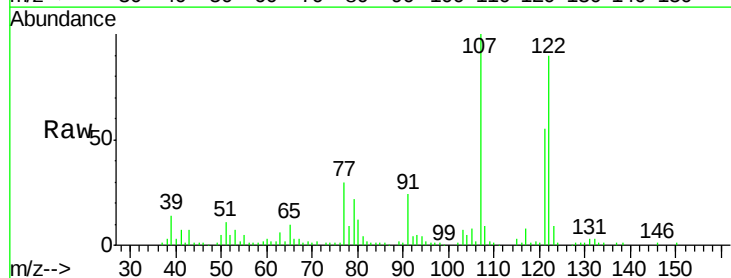
Ion	Ratio	Lower	Upper
82	100		
128	48.2	34.0	51.0
54	48.0	42.2	63.2

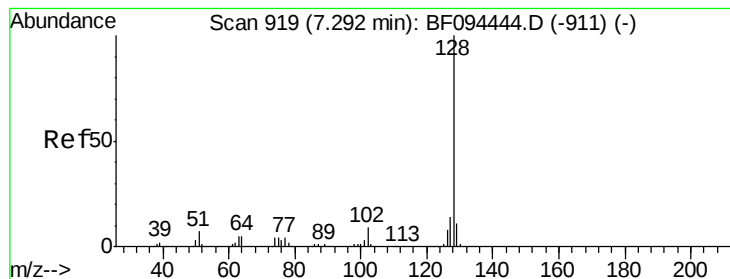


#27
 2,4-Dimethylphenol
 Concen: 37.27 ng
 RT: 6.94 min Scan# 851
 Delta R.T. 0.05 min
 Lab File: BF094741.D
 Acq: 1 May 2017 4:41

Tgt Ion: 122 Resp: 122303

Ion	Ratio	Lower	Upper
122	100		
107	111.0	89.2	133.8
121	60.7	45.2	67.8





#31

Naphthalene

Concen: 2033.58 ng

RT: 7.36 min Scan# 922

Delta R.T. 0.07 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

Instrument :

BNA_F

ClientSampleId :

MW-7BD

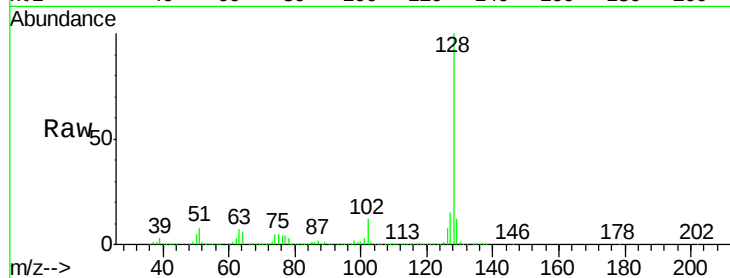
Tot Ion:128 Resp:21554322

Ion Ratio Lower Upper

128 100

129 12.0 9.0 13.6

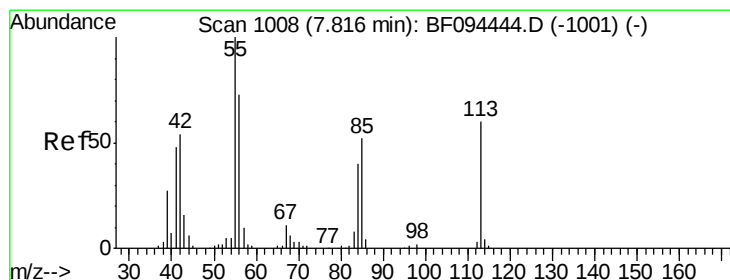
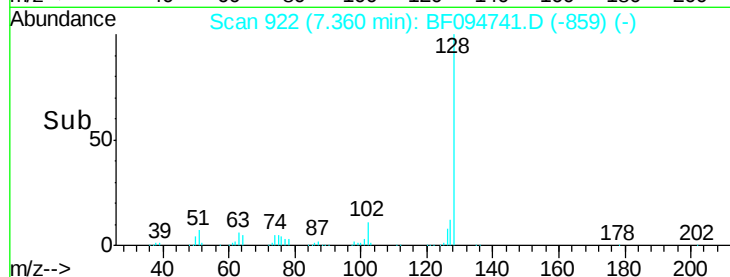
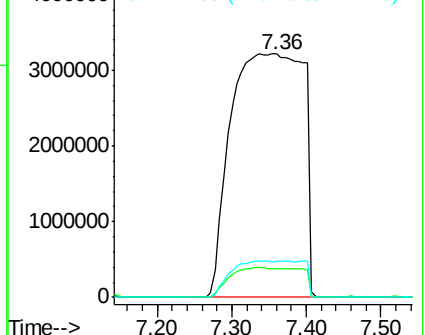
127 14.9 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#35

Caprolactam

Concen: 58.90 ng

RT: 7.93 min Scan# 1019

Delta R.T. 0.11 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

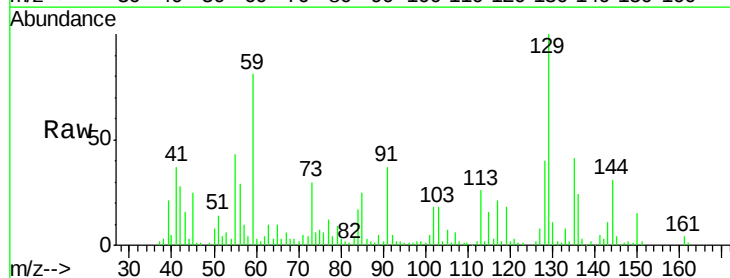
Tgt Ion:113 Resp: 56481

Ion Ratio Lower Upper

113 100

55 169.8 150.2 190.2

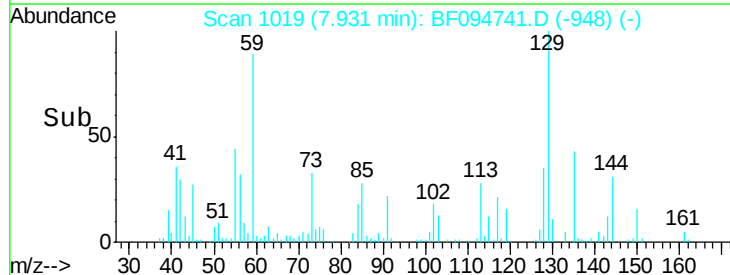
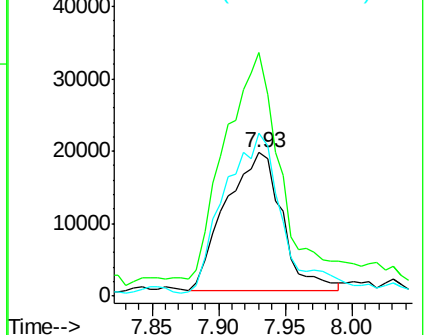
56 113.5 107.8 147.8

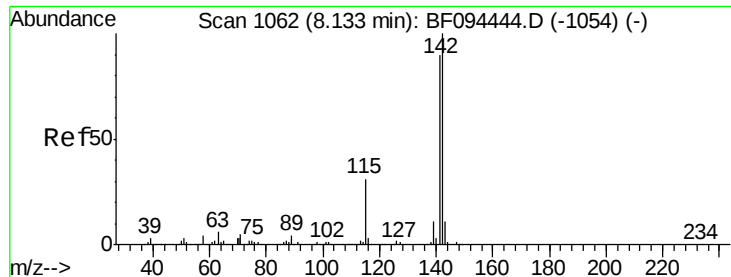


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0

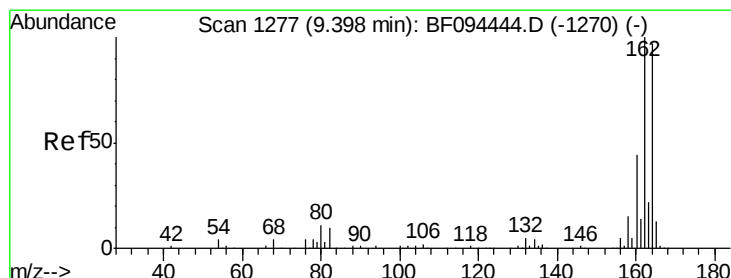
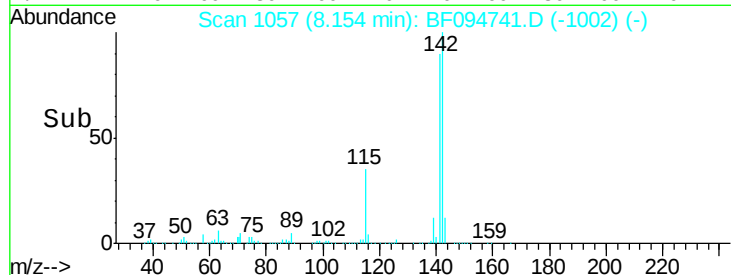
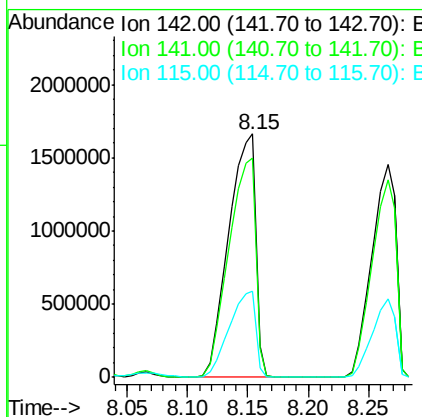
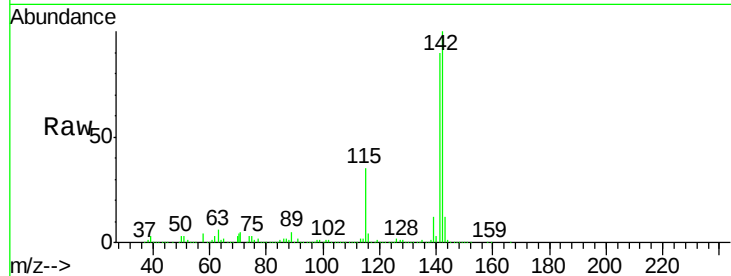




#37
2-Methylnaphthalene
Concen: 357.89 ng
RT: 8.15 min Scan# 1057
Delta R.T. 0.02 min
Lab File: BF094741.D
Acq: 1 May 2017 4:41

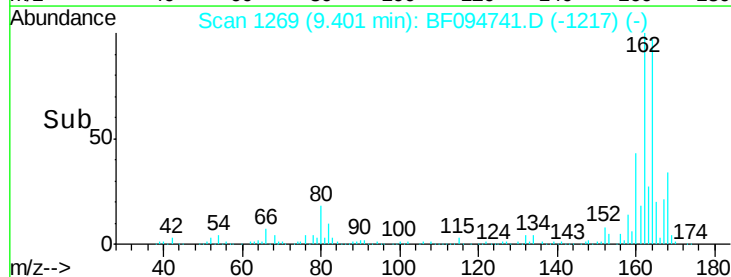
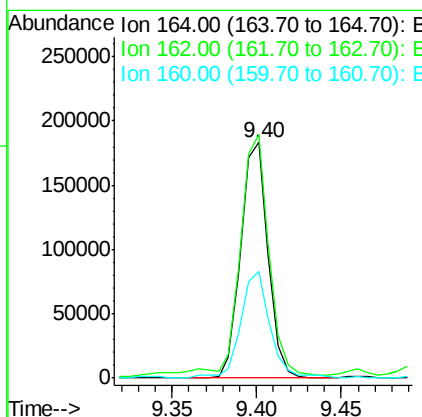
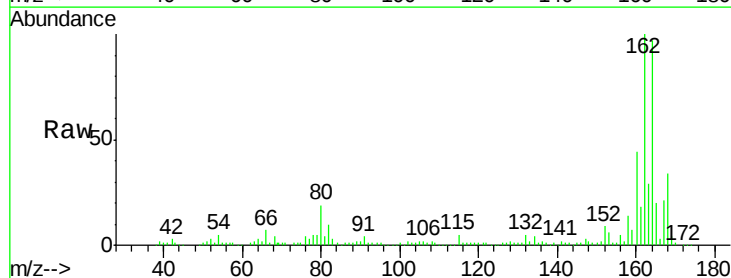
Instrument :
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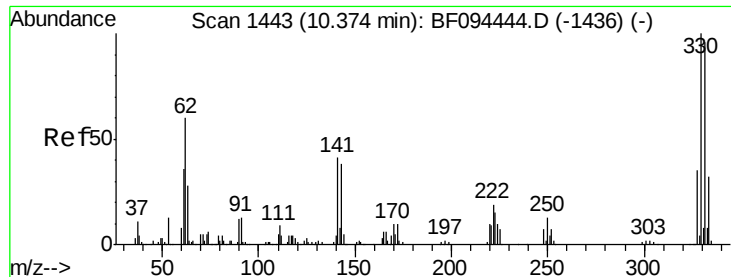
Tot Ion:142 Resp: 2595256
Ion Ratio Lower Upper
142 100
141 89.8 71.3 106.9
115 35.4 27.1 40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.40 min Scan# 1269
Delta R.T. 0.00 min
Lab File: BF094741.D
Acq: 1 May 2017 4:41

Tgt Ion:164 Resp: 204812
Ion Ratio Lower Upper
164 100
162 103.3 82.6 123.8
160 45.2 36.2 54.2

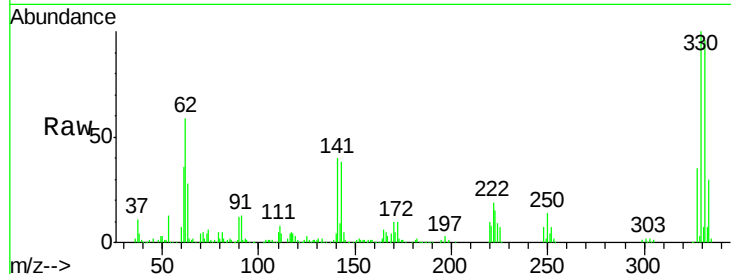




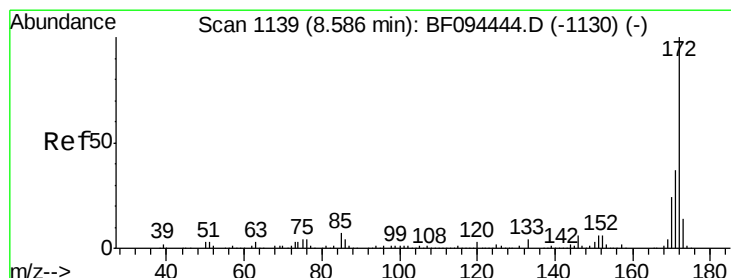
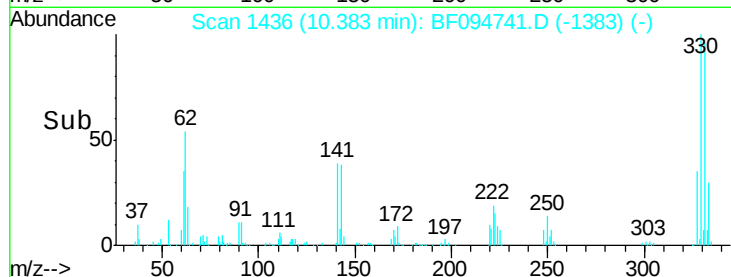
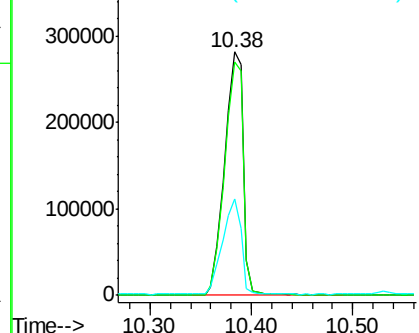
#41
 2,4,6-Tribromophenol
 Concen: 225.59 ng
 RT: 10.38 min Scan# 1436
 Delta R.T. 0.01 min
 Lab File: BF094741.D
 Acq: 1 May 2017 4:41

Instrument :
 BNA_F
 ClientSampled :
 MW-7BD

Tot Ion:330 Resp: 361392
 Ion Ratio Lower Upper
 330 100
 332 96.5 76.6 115.0
 141 38.4 31.4 47.2

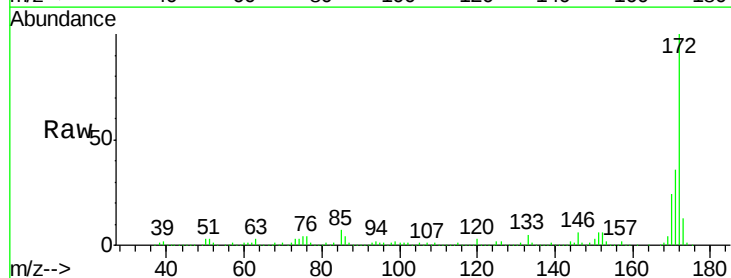


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

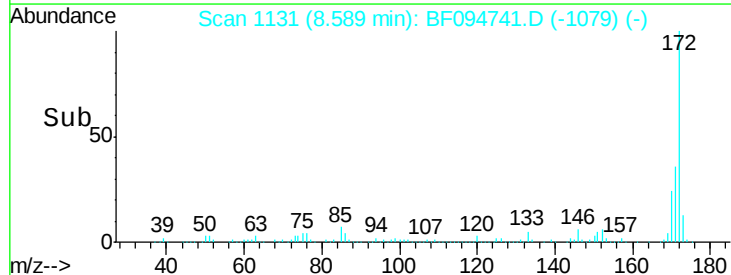
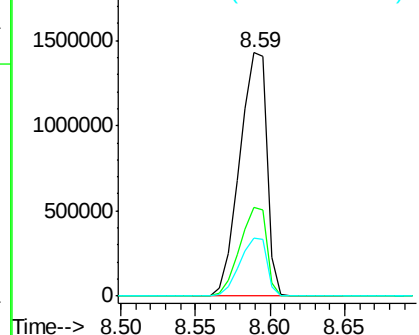


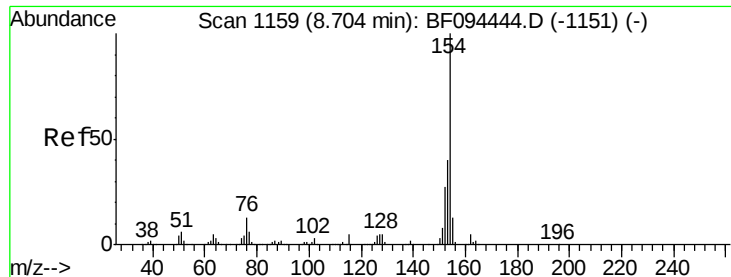
#44
 2-Fluorobiphenyl
 Concen: 131.00 ng
 RT: 8.59 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: BF094741.D
 Acq: 1 May 2017 4:41

Tgt Ion:172 Resp: 1823521
 Ion Ratio Lower Upper
 172 100
 171 36.4 29.6 44.4
 170 23.8 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: 57.32 ng

RT: 8.71 min Scan# 1151

Delta R.T. 0.00 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

Instrument :

BNA_F

ClientSampleId :

MW-7BD

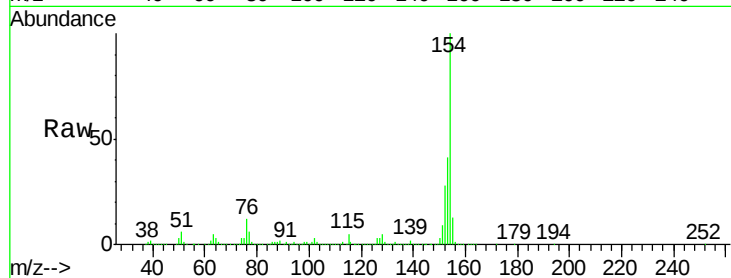
Tot Ion:154 Resp: 959212

Ion Ratio Lower Upper

154 100

153 40.7 21.2 61.2

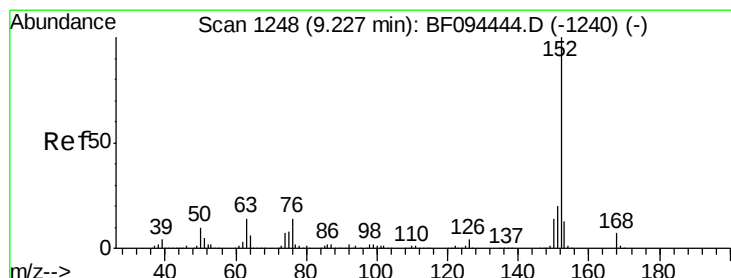
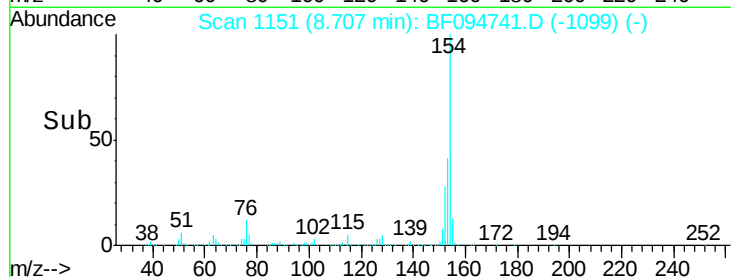
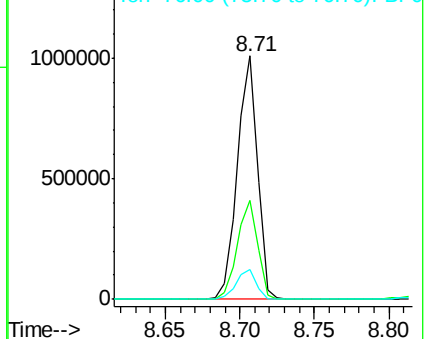
76 12.5 0.0 29.9



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: 90.18 ng

RT: 9.24 min Scan# 1241

Delta R.T. 0.01 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

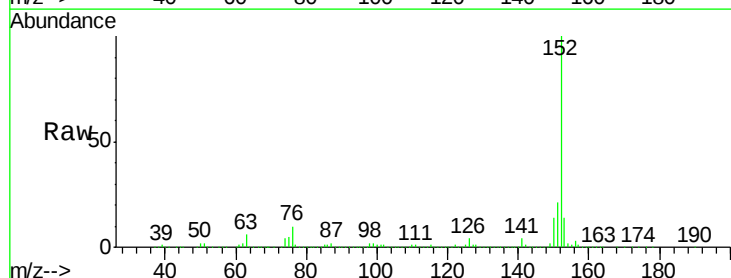
Tgt Ion:152 Resp: 1870595

Ion Ratio Lower Upper

152 100

151 20.7 16.8 25.2

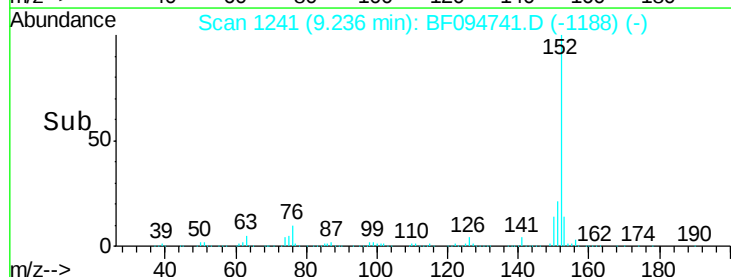
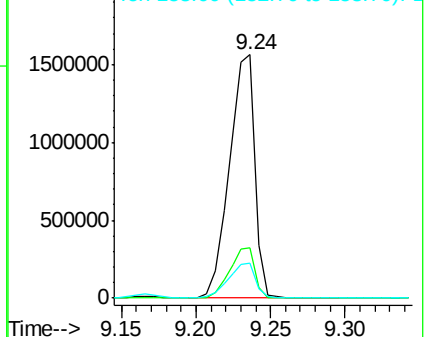
153 14.3 10.8 16.2

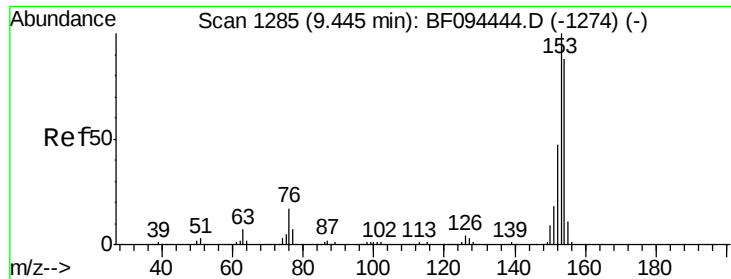


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 103.43 ng

RT: 9.45 min Scan# 1277

Delta R.T. 0.00 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

Instrument :

BNA_F

ClientSampleId :

MW-7BD

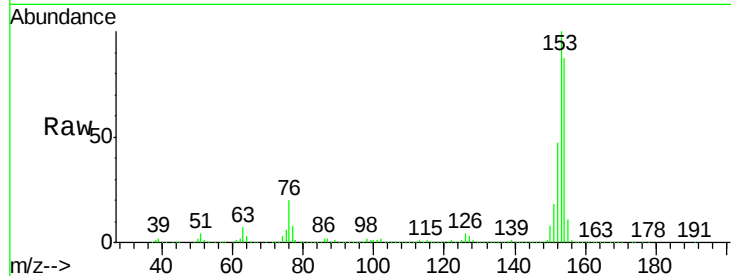
Tot Ion:154 Resp: 1284964

Ion Ratio Lower Upper

154 100

153 114.9 90.5 135.7

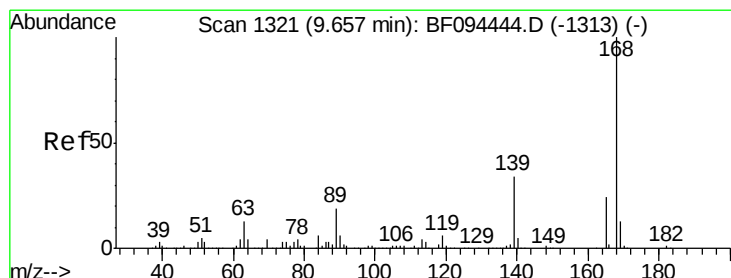
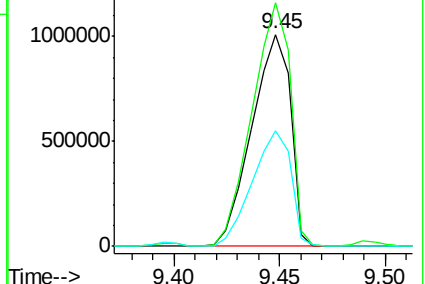
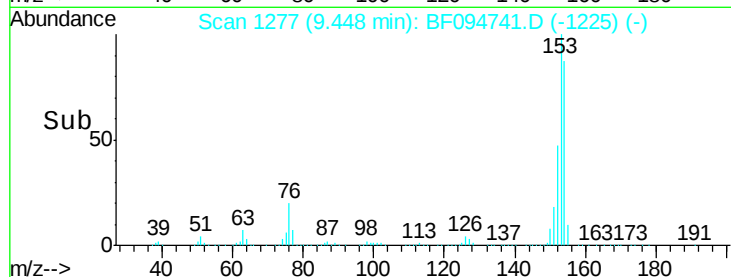
152 54.3 43.6 65.4



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



#54

Dibenzofuran

Concen: 4.07 ng

RT: 9.65 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

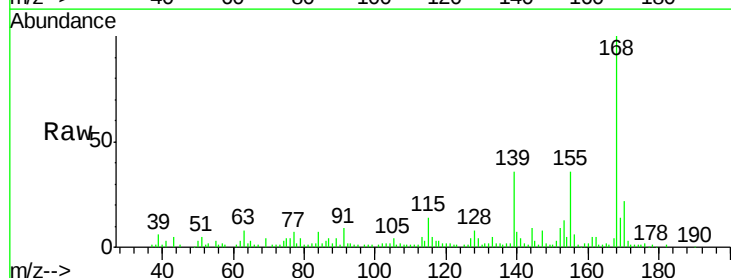
Tgt Ion:168 Resp: 73501

Ion Ratio Lower Upper

168 100

139 35.5 30.6 45.8

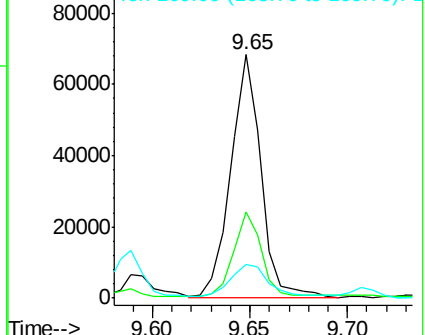
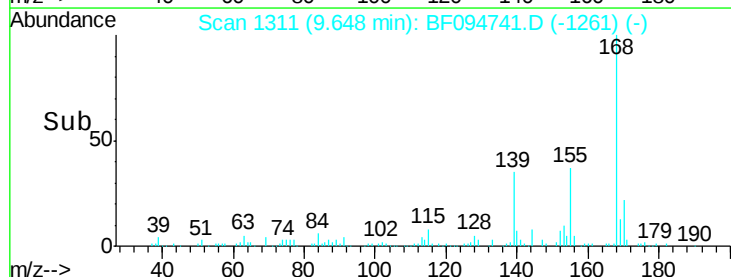
169 13.8 10.8 16.2

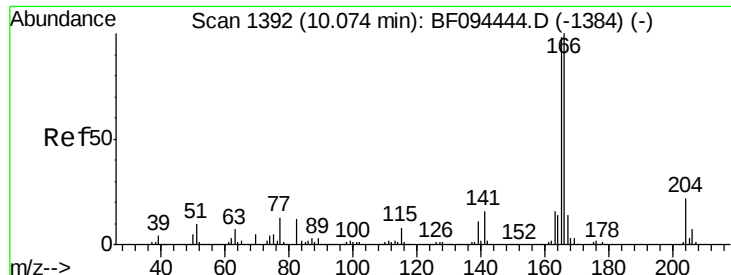


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

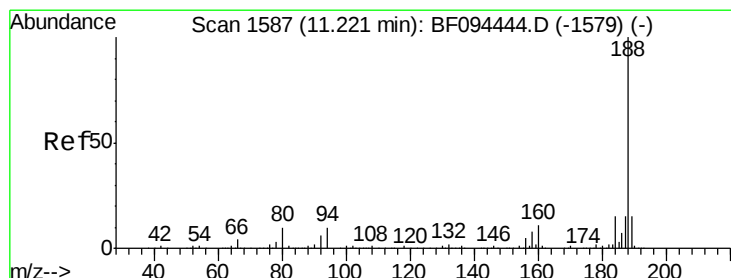
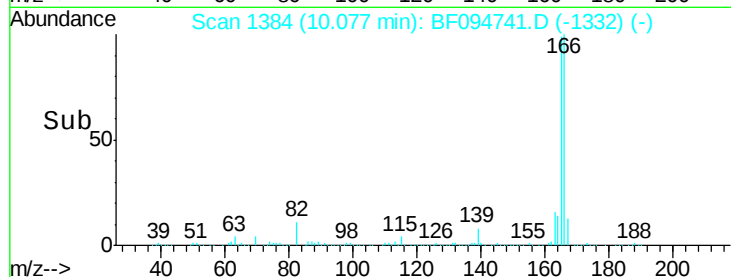
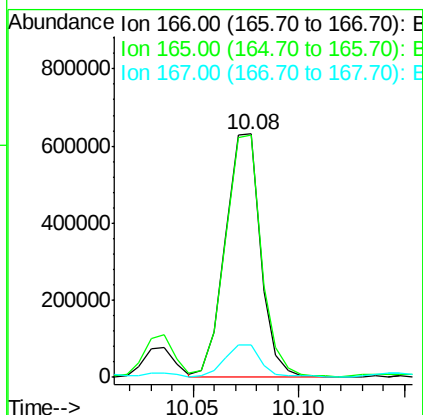
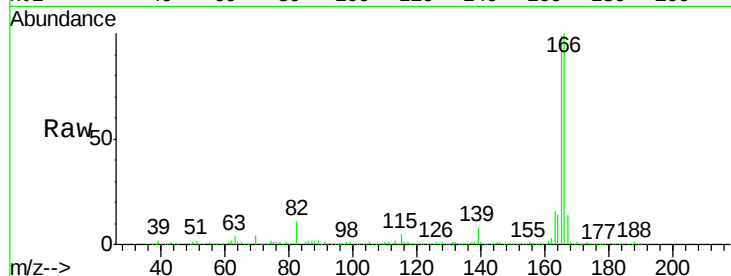




#57
Fluorene
 Concen: 51.68 ng
 RT: 10.08 min Scan# 1384
 Delta R.T. 0.00 min
 Lab File: BF094741.D
 Acq: 1 May 2017 4:41

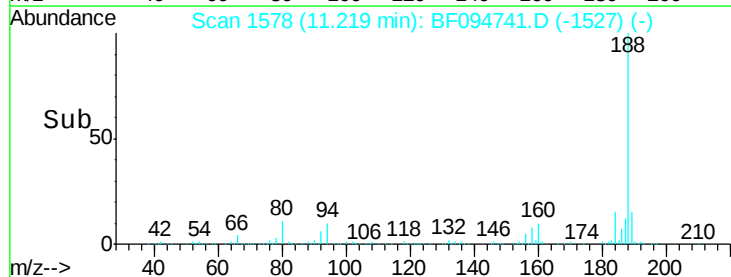
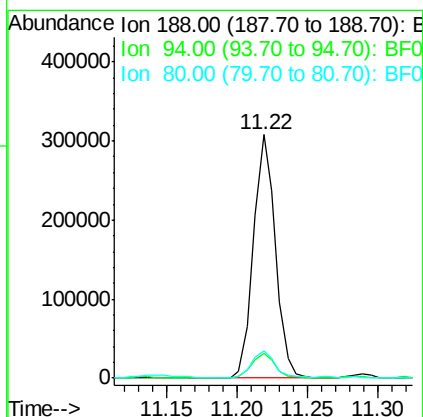
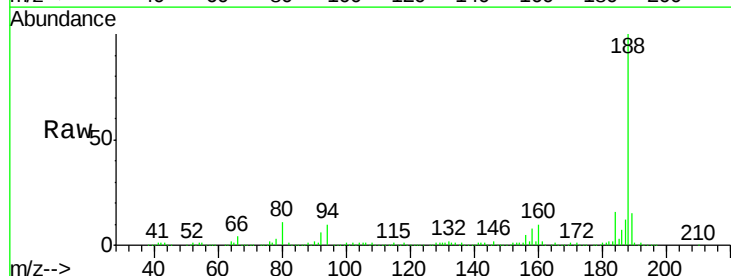
Instrument :
 BNA_F
 ClientSampleId :
 MW-7BD

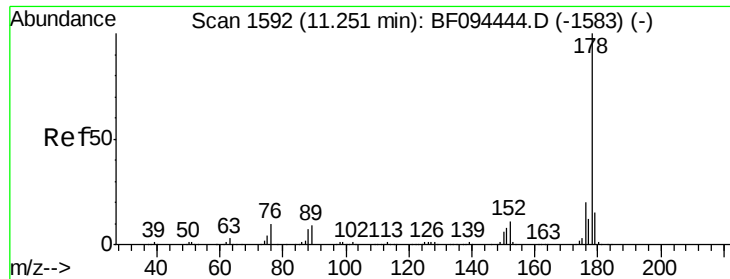
Tot Ion:166 Resp: 726697
 Ion Ratio Lower Upper
 166 100
 165 99.4 78.8 118.2
 167 13.5 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.22 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: BF094741.D
 Acq: 1 May 2017 4:41

Tgt Ion:188 Resp: 338179
 Ion Ratio Lower Upper
 188 100
 94 10.1 9.4 14.2
 80 11.3 10.2 15.2





#70

Phenanthrene

Concen: 75.09 ng

RT: 11.25 min Scan# 1584

Delta R.T. 0.00 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

Instrument :

BNA_F

ClientSampleId :

MW-7BD

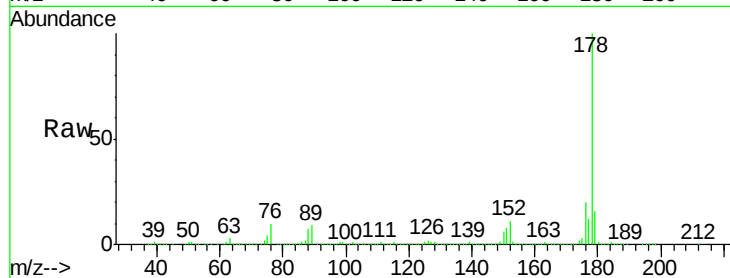
Tot Ion:178 Resp: 1429913

Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.2	24.4
179	16.1	12.6	19.0

178 100

176 19.5 16.2 24.4

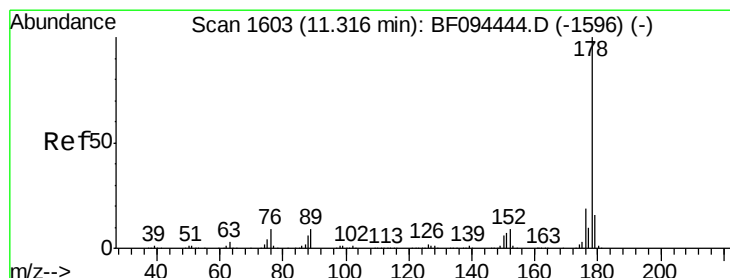
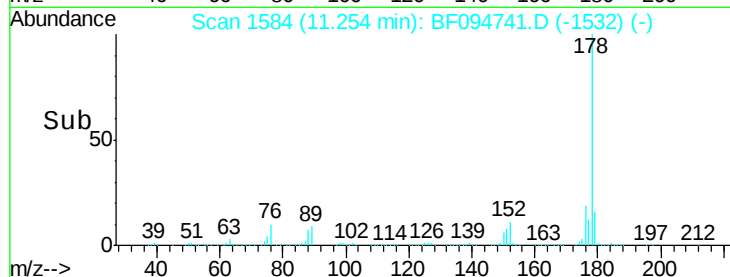
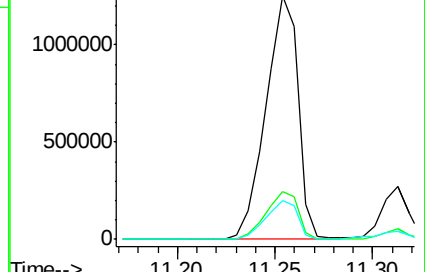
179 16.1 12.6 19.0



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: 12.83 ng

RT: 11.31 min Scan# 1594

Delta R.T. -0.00 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

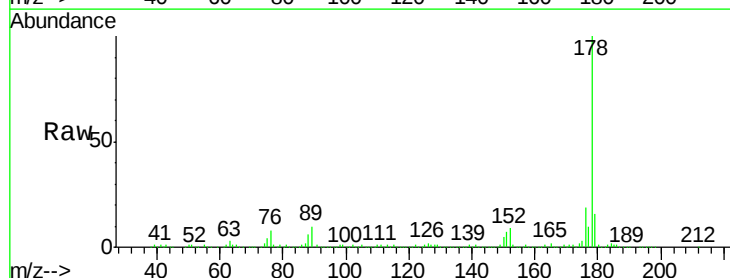
Tgt Ion:178 Resp: 252794

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	15.6	12.7	19.1

178 100

176 19.2 15.8 23.8

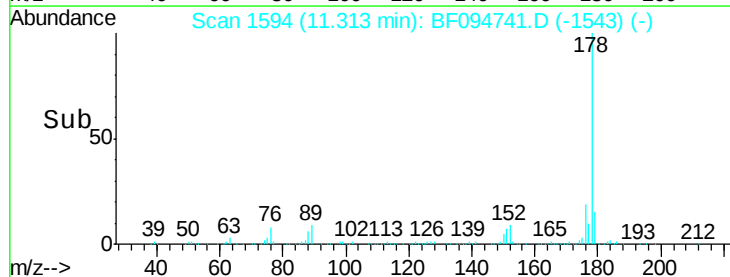
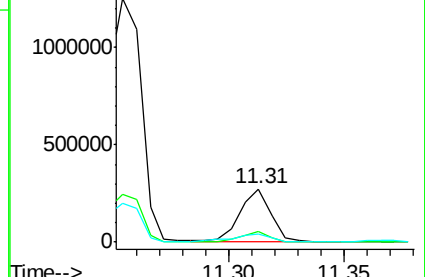
179 15.6 12.7 19.1

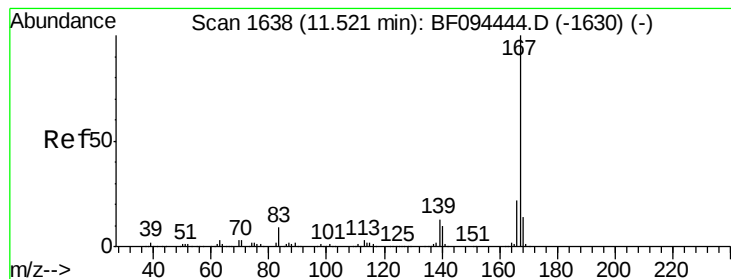


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.03 ng

RT: 11.52 min Scan# 1630

Delta R.T. 0.00 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

Instrument :

BNA_F

ClientSampleId :

MW-7BD

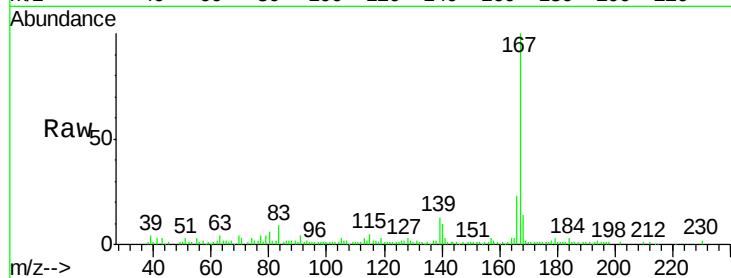
Tot Ion:167 Resp: 74501

Ion Ratio Lower Upper

167 100

166 23.1 18.1 27.1

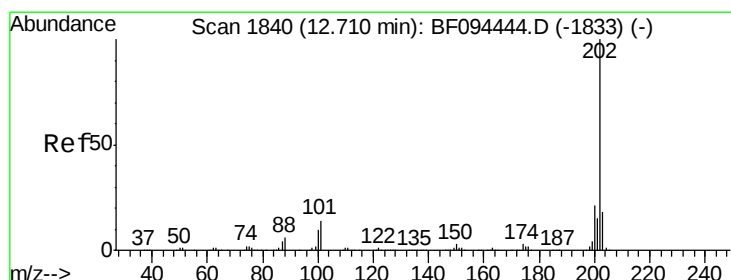
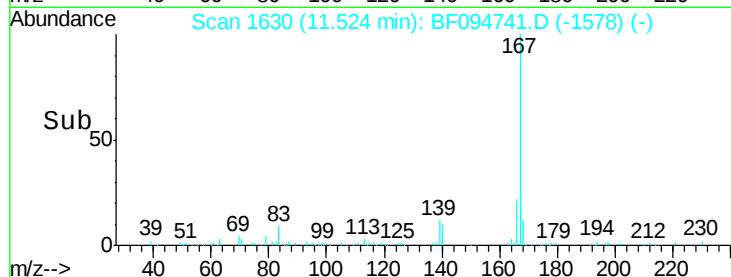
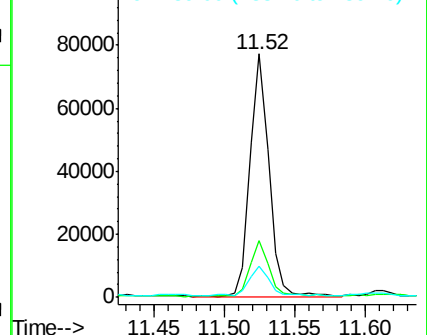
139 12.9 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 11.89 ng

RT: 12.71 min Scan# 1831

Delta R.T. -0.00 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

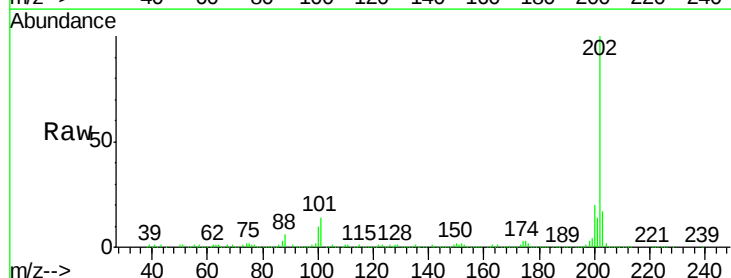
Tgt Ion:202 Resp: 234713

Ion Ratio Lower Upper

202 100

101 14.3 0.0 33.2

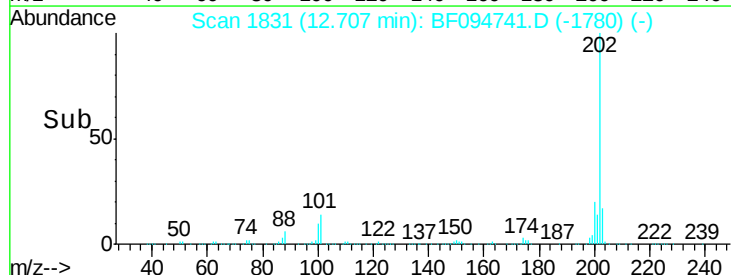
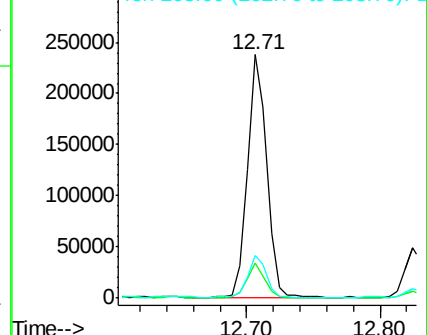
203 17.5 0.0 38.1

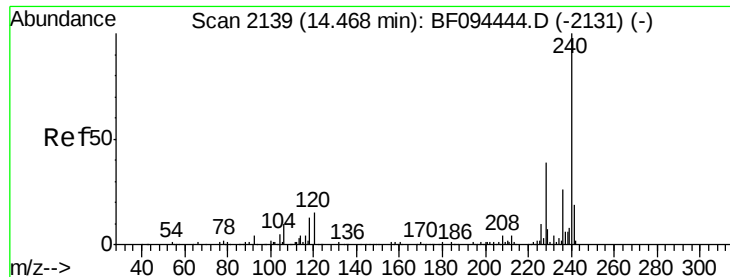


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.48 min Scan# 2132

Delta R.T. 0.01 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

Instrument :

BNA_F

ClientSampled :

MW-7BD

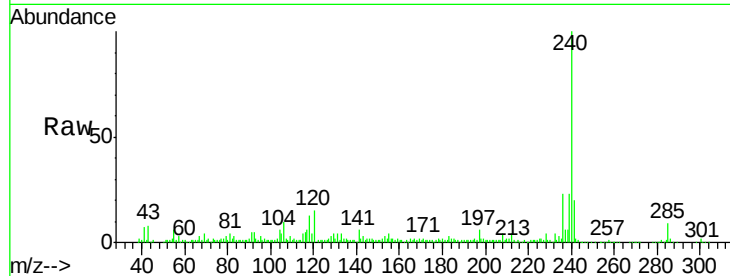
Tot Ion:240 Resp: 228484

Ion Ratio Lower Upper

240 100

120 15.0 5.8 8.8#

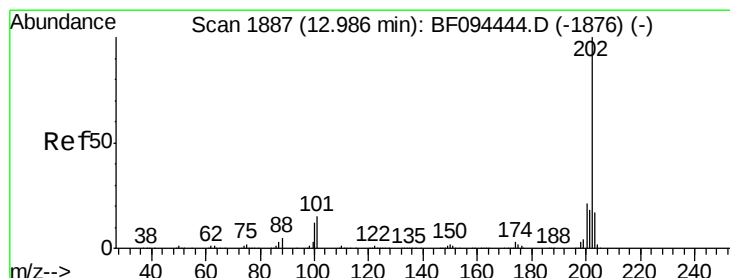
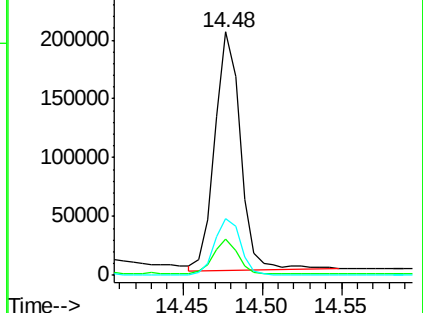
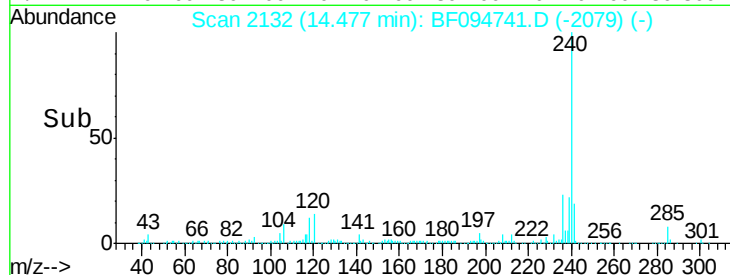
236 23.2 20.5 30.7



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

Pyrene

Concen: 18.30 ng

RT: 12.98 min Scan# 1878

Delta R.T. -0.00 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

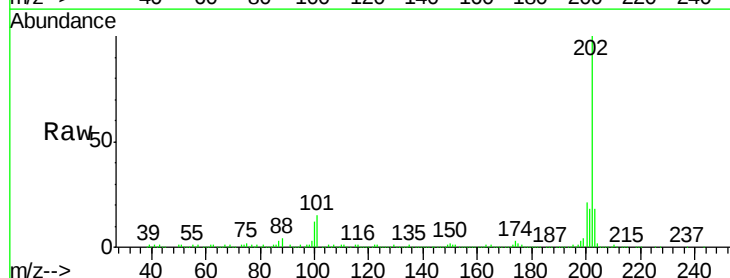
Tgt Ion:202 Resp: 292086

Ion Ratio Lower Upper

202 100

200 20.7 17.6 26.4

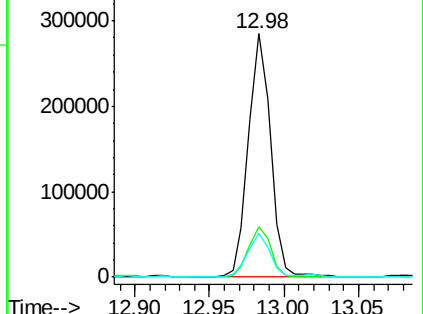
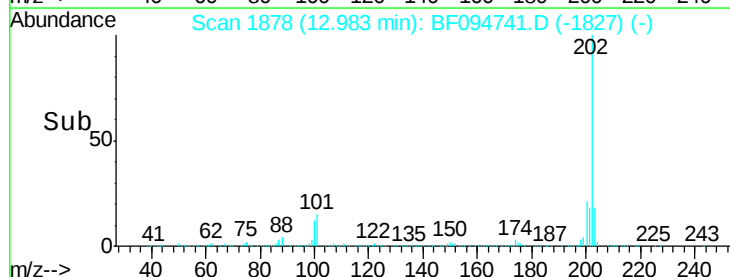
203 18.1 14.4 21.6

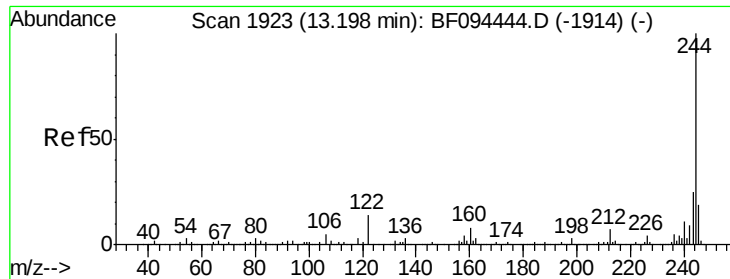


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 164.86 ng

RT: 13.20 min Scan# 1915

Delta R.T. 0.00 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

Instrument :

BNA_F

ClientSampleId :

MW-7BD

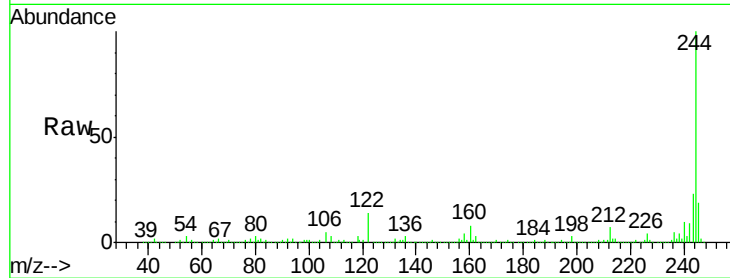
Tot Ion:244 Resp: 1409228

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

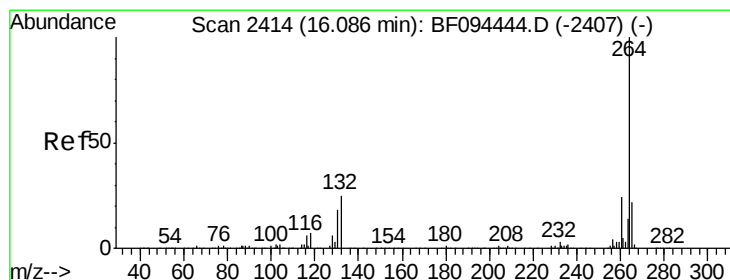
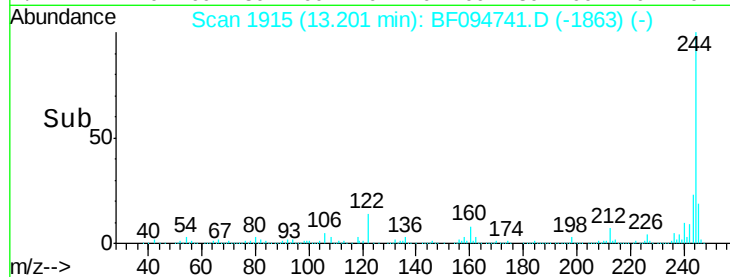
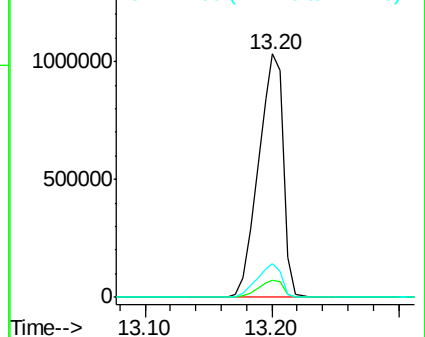
122 14.0 10.3 15.5



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 16.11 min Scan# 2410

Delta R.T. 0.03 min

Lab File: BF094741.D

Acq: 1 May 2017 4:41

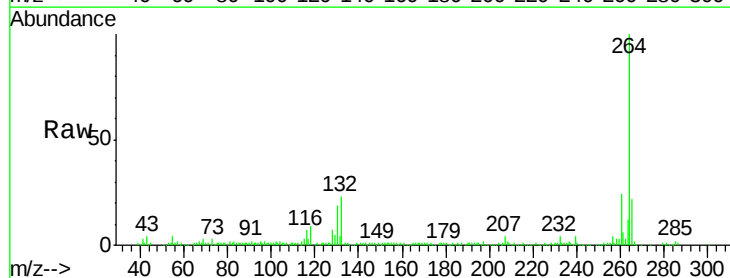
Tgt Ion:264 Resp: 209278

Ion Ratio Lower Upper

264 100

260 23.7 19.5 29.3

265 21.9 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

