

Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
 Data File : BF090630.D
 Acq On : 18 Oct 2016 16:18
 Operator : UM/SJ
 Sample : H5289-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-3-1

Quant Time: Oct 19 01:35:59 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 17 19:19:58 2016
 Response via : Initial Calibration

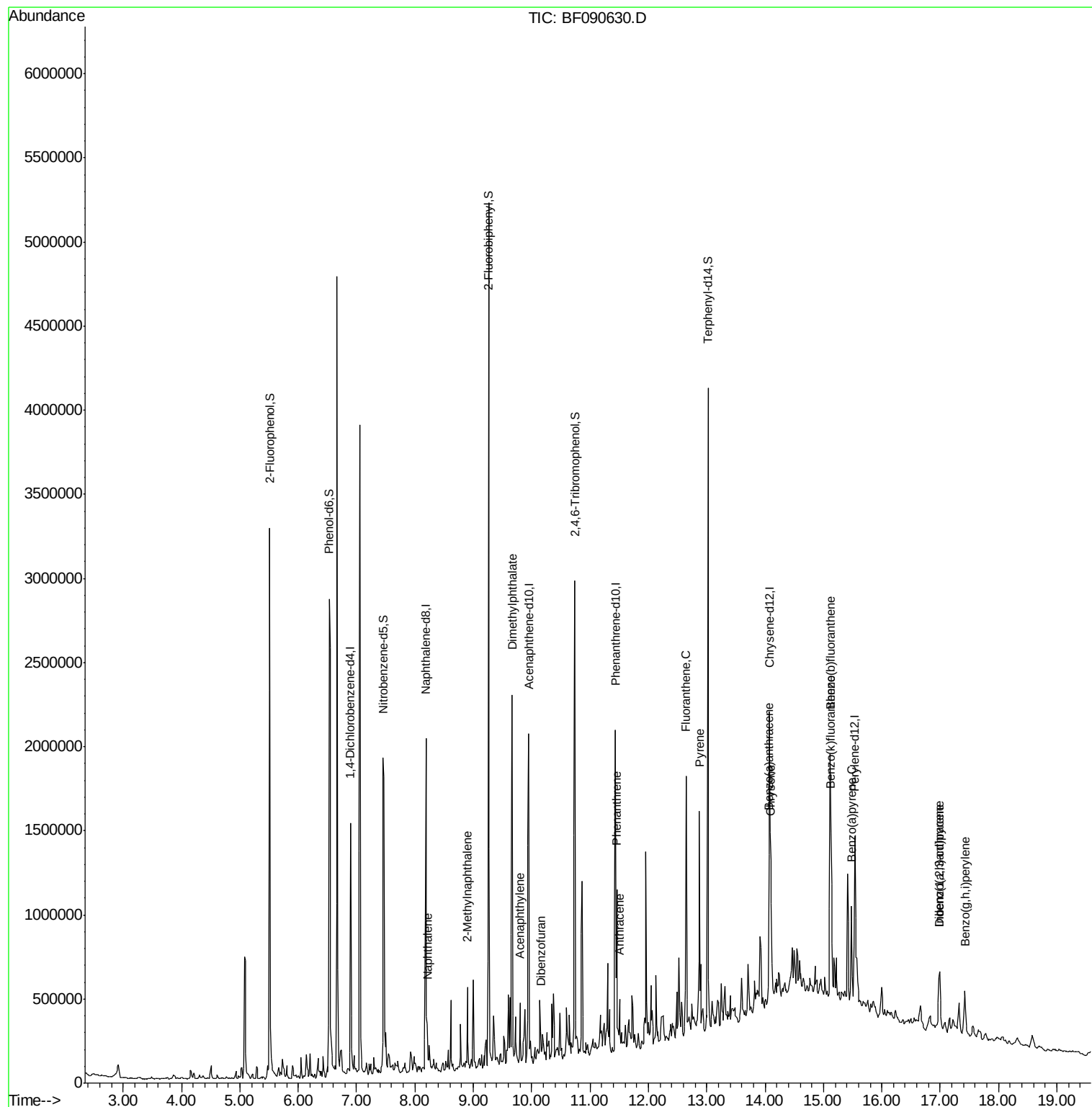
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	226413	20.00	ng	-0.01
21) Naphthalene-d8	8.19	136	989850	20.00	ng	-0.01
38) Acenaphthene-d10	9.95	164	509611	20.00	ng	-0.01
63) Phenanthrene-d10	11.43	188	744294	20.00	ng	-0.01
75) Chrysene-d12	14.08	240	515688	20.00	ng	-0.01
86) Perylene-d12	15.54	264	488647	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	1263586	102.31	ng	0.00
7) Phenol-d6	6.53	99	1651867	90.01	ng	-0.01
23) Nitrobenzene-d5	7.46	82	1106798	62.11	ng	-0.02
41) 2,4,6-Tribromophenol	10.74	330	343346	75.57	ng	-0.01
44) 2-Fluorobiphenyl	9.26	172	1623833	52.50	ng	-0.01
78) Terphenyl-d14	13.02	244	1352561	61.07	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.21	128	151680	3.01	ng	100
37) 2-Methylnaphthalene	8.90	142	132042	4.46	ng	98
48) Acenaphthylene	9.80	152	116422	2.53	ng	98
49) Dimethylphthalate	9.66	163	797146	24.11	ng	98
54) Dibenzofuran	10.15	168	91724	2.28	ng	99
70) Phenanthrene	11.46	178	372137	9.37	ng	98
71) Anthracene	11.50	178	145293	3.40	ng	100
74) Fluoranthene	12.65	202	549008	13.74	ng	95
77) Pyrene	12.87	202	493499	14.45	ng	99
80) Benzo(a)anthracene	14.06	228	313998m	10.70	ng	
82) Chrysene	14.10	228	519244m	18.36	ng	
85) Indeno(1,2,3-cd)pyrene	16.99	276	259469	15.86	ng	# 91
87) Benzo(b)fluoranthene	15.12	252	755616m	23.63	ng	
88) Benzo(k)fluoranthene	15.13	252	349123m	10.15	ng	
89) Benzo(a)pyrene	15.48	252	364084	12.44	ng	# 96
90) Dibenzo(a,h)anthracene	16.99	278	64450	2.89	ng	92
91) Benzo(a,h,i)perylene	17.42	276	223326	10.49	ng	97

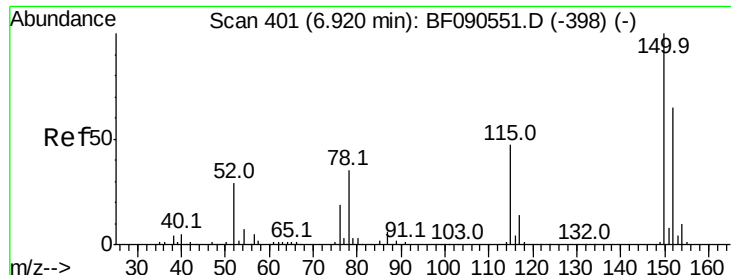
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 399

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

Instrument :

BNA_F

ClientSampleId :

SP-3-1

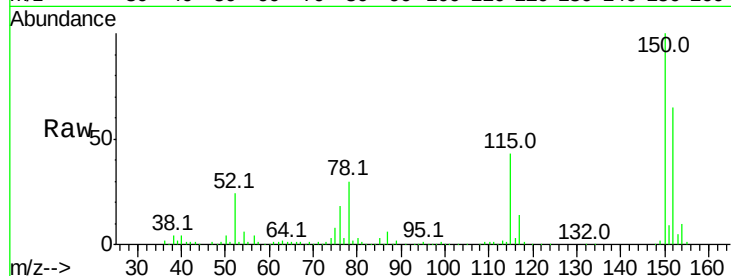
Tot Ion:152 Resp: 226413

Ion Ratio Lower Upper

152 100

150 153.7 127.2 190.8

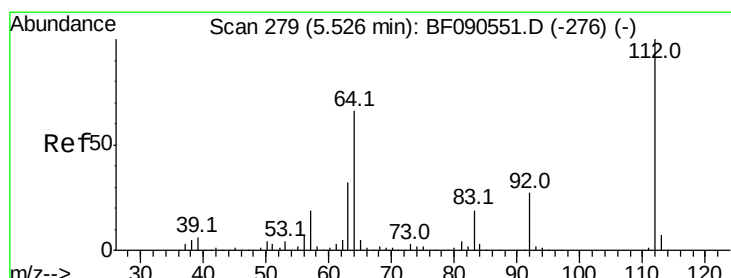
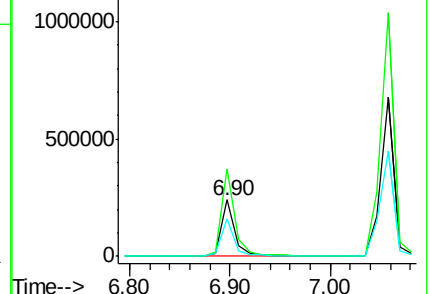
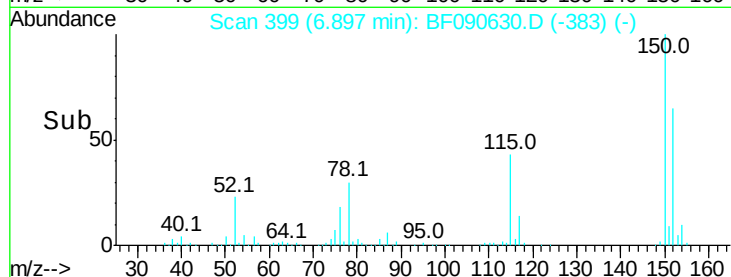
115 66.7 58.6 88.0



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: 102.31 ng

RT: 5.51 min Scan# 278

Delta R.T. -0.00 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

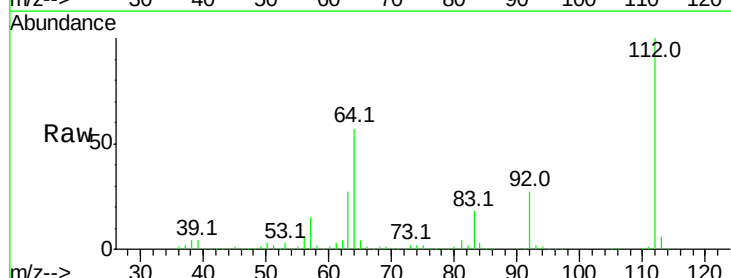
Tgt Ion:112 Resp: 1263586

Ion Ratio Lower Upper

112 100

64 56.5 52.6 78.8

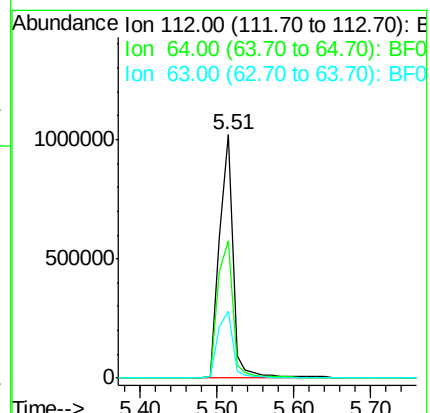
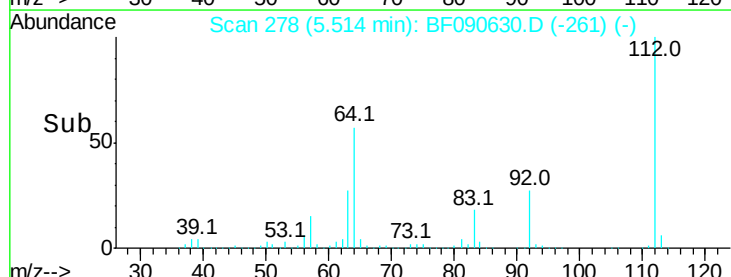
63 27.4 26.0 39.0

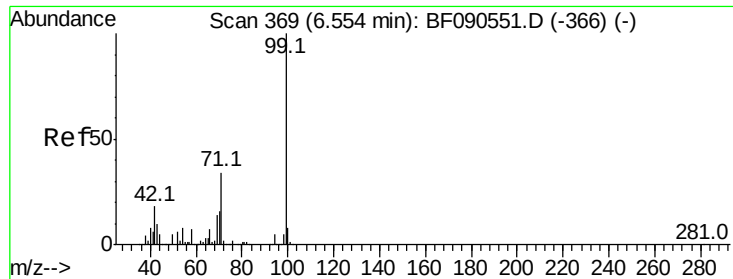


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 90.01 ng

RT: 6.53 min Scan# 367

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

Instrument :

BNA_F

ClientSampleId :

SP-3-1

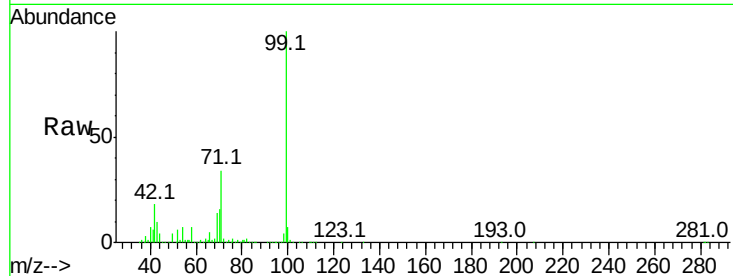
Tot Ion: 99 Resp: 1651867

Ion Ratio Lower Upper

99 100

42 17.7 14.7 22.1

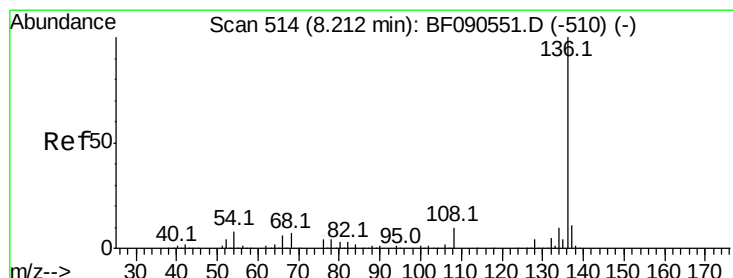
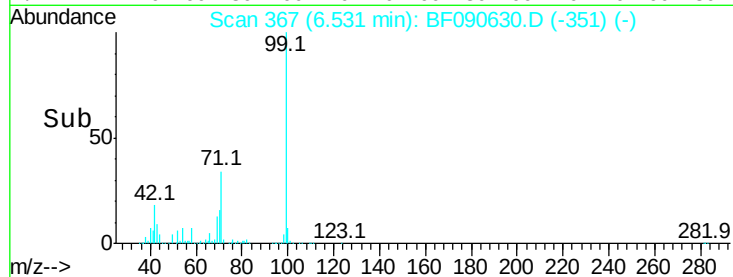
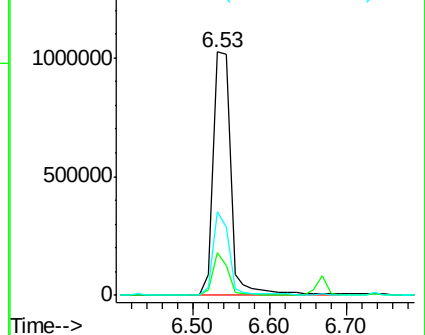
71 34.2 27.6 41.4



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.19 min Scan# 512

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

Tgt Ion: 136 Resp: 989850

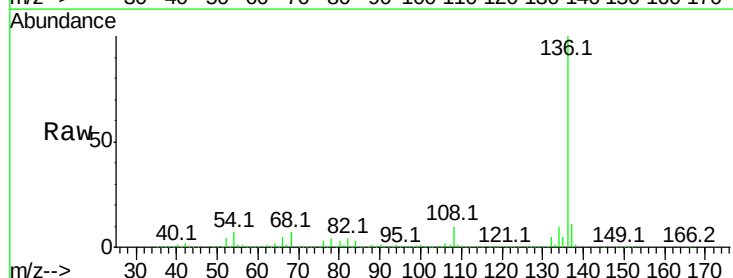
Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

54 7.4 6.8 10.2

68 6.8 6.0 9.0

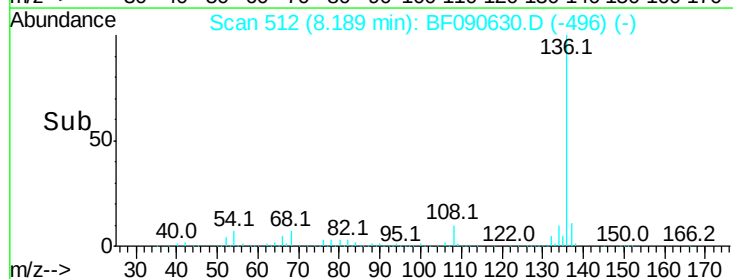
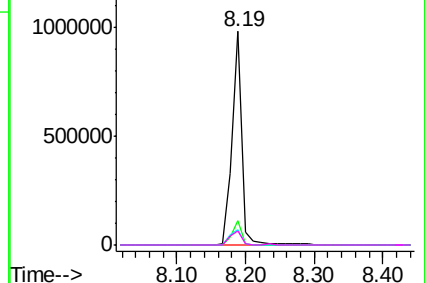


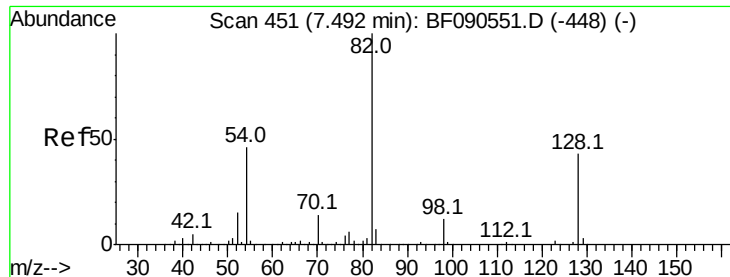
Abundance Ion 136.00 (135.70 to 136.70): E

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: 62.11 ng

RT: 7.46 min Scan# 448

Delta R.T. -0.02 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

Instrument :

BNA_F

ClientSampleId :

SP-3-1

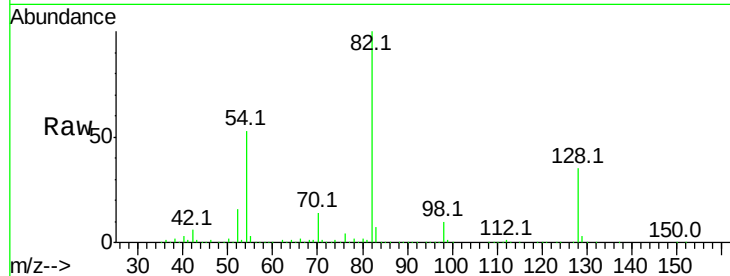
Tot Ion: 82 Resp: 1106798

Ion Ratio Lower Upper

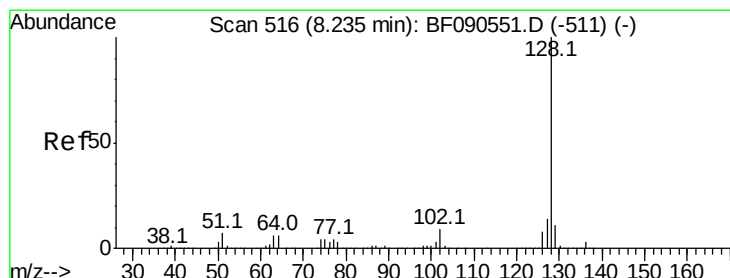
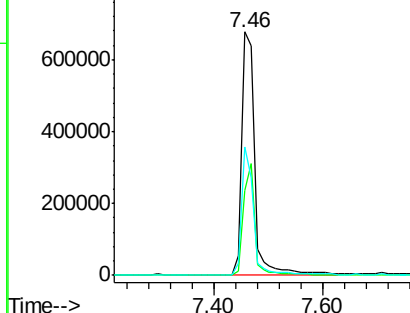
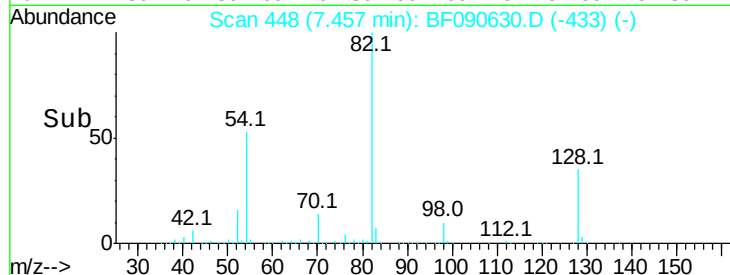
82 100

128 35.0 34.3 51.5

54 52.5 37.0 55.6



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



#31

Naphthalene

Concen: 3.01 ng

RT: 8.21 min Scan# 514

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

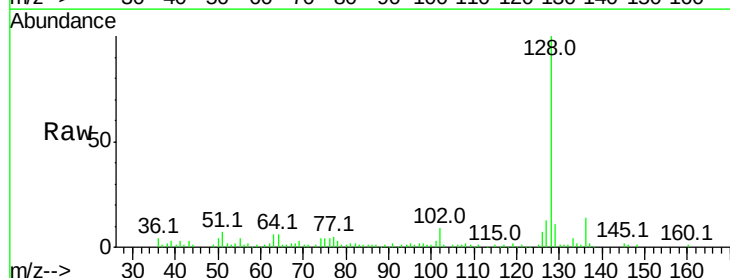
Tgt Ion:128 Resp: 151680

Ion Ratio Lower Upper

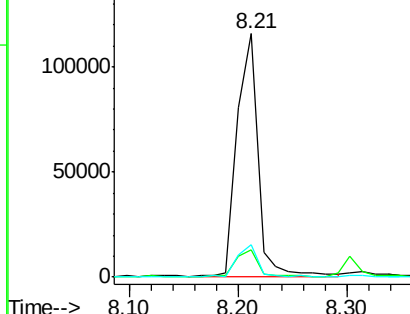
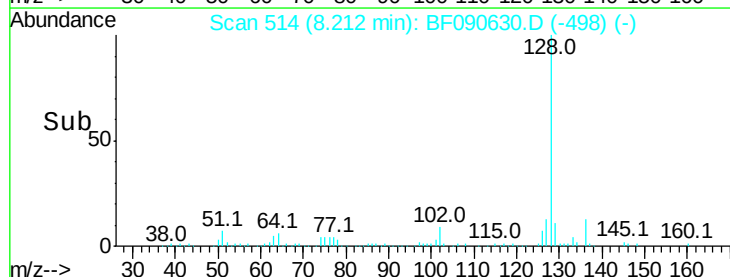
128 100

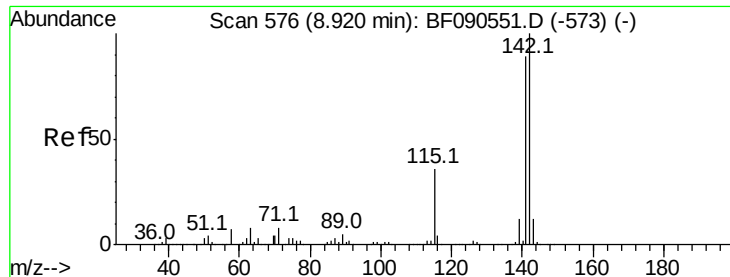
129 11.2 9.0 13.6

127 13.4 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

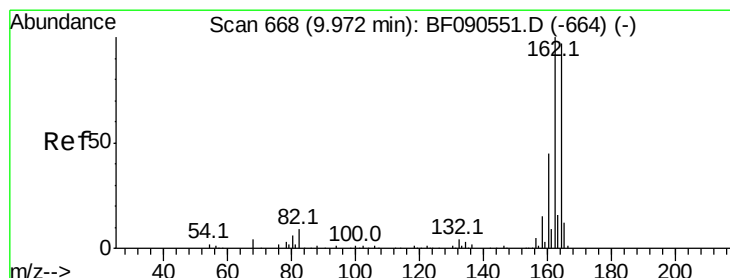
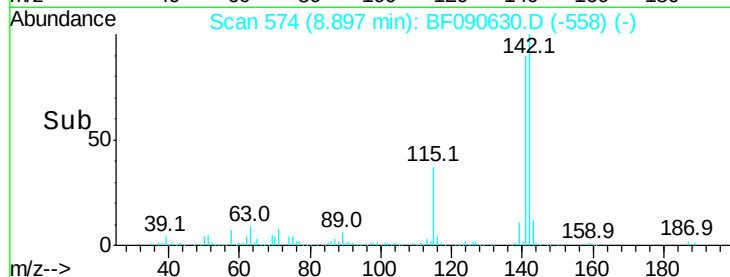
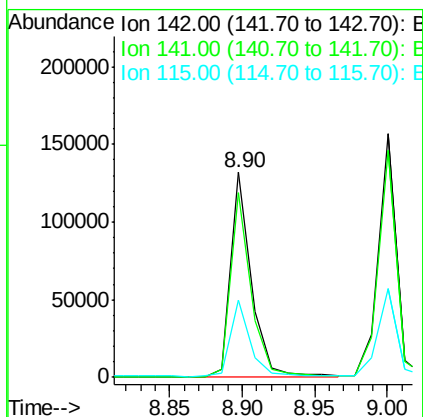
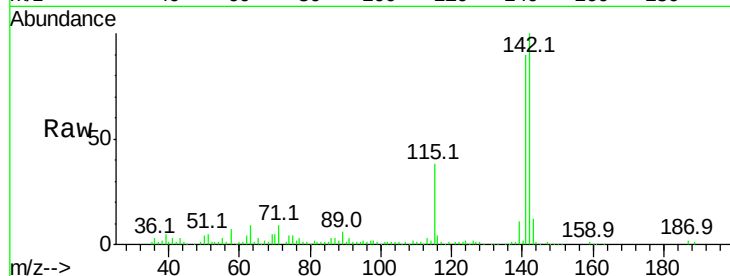




#37
2-Methylnaphthalene
Concen: 4.46 ng
RT: 8.90 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF090630.D
Acq: 18 Oct 2016 16:18

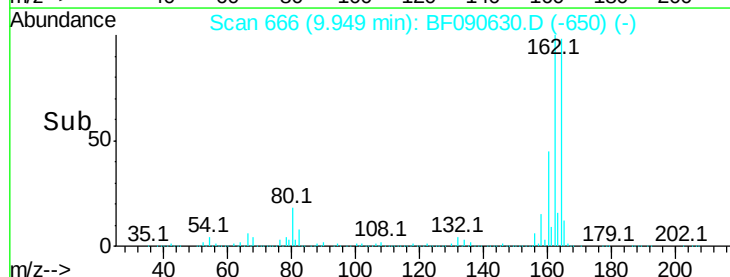
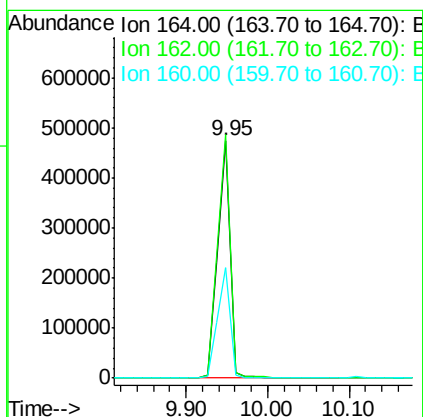
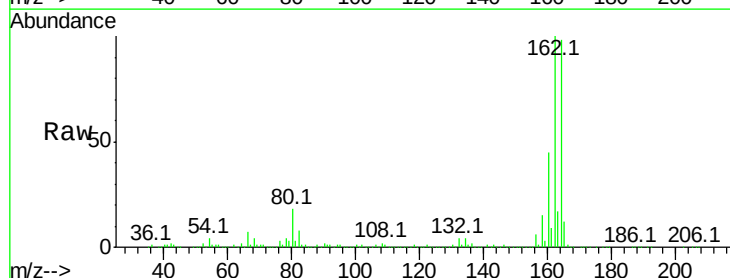
Instrument :
BNA_F
ClientSampled :
SP-3-1

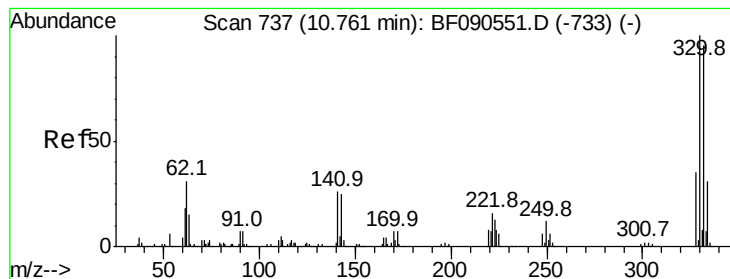
Tot Ion:142 Resp: 132042
Ion Ratio Lower Upper
142 100
141 90.2 71.3 106.9
115 37.7 28.8 43.2



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.95 min Scan# 666
Delta R.T. -0.01 min
Lab File: BF090630.D
Acq: 18 Oct 2016 16:18

Tgt Ion:164 Resp: 509611
Ion Ratio Lower Upper
164 100
162 102.4 82.2 123.4
160 46.2 36.6 55.0





#41

2,4,6-Tribromophenol

Concen: 75.57 ng

RT: 10.74 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

Instrument :

BNA_F

ClientSampled :

SP-3-1

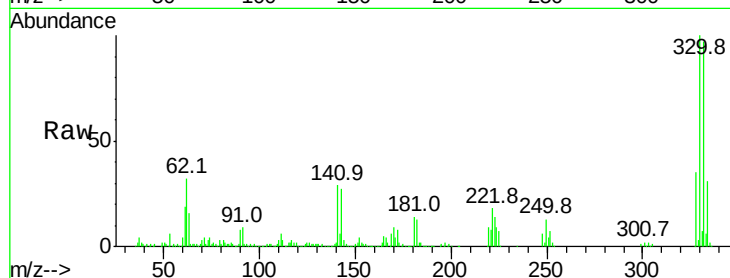
Tot Ion:330 Resp: 343346

Ion Ratio Lower Upper

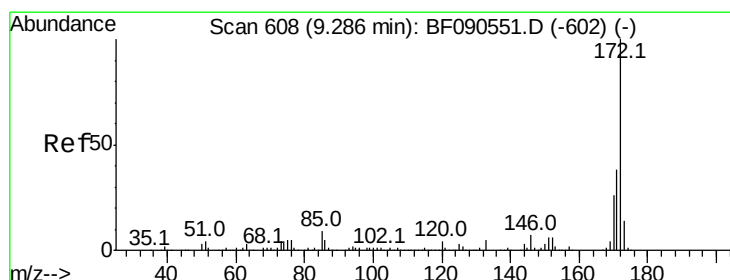
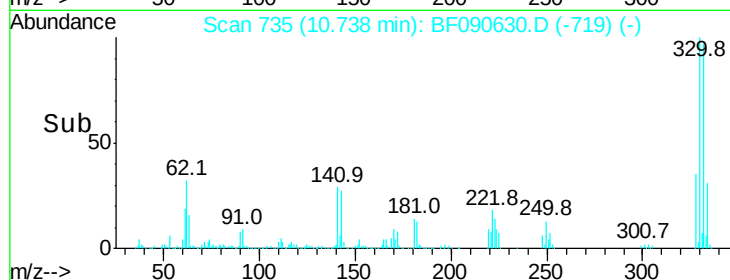
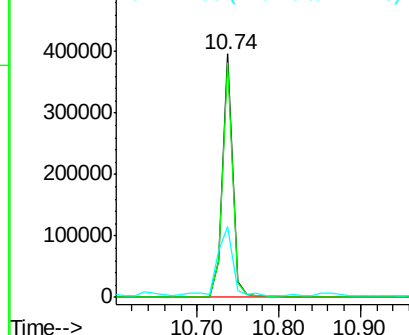
330 100

332 97.1 76.2 114.2

141 45.3 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: 52.50 ng

RT: 9.26 min Scan# 606

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

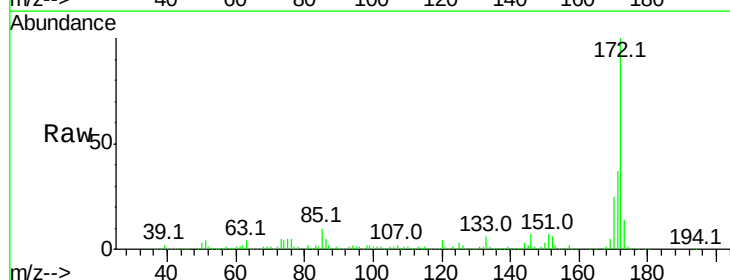
Tgt Ion:172 Resp: 1623833

Ion Ratio Lower Upper

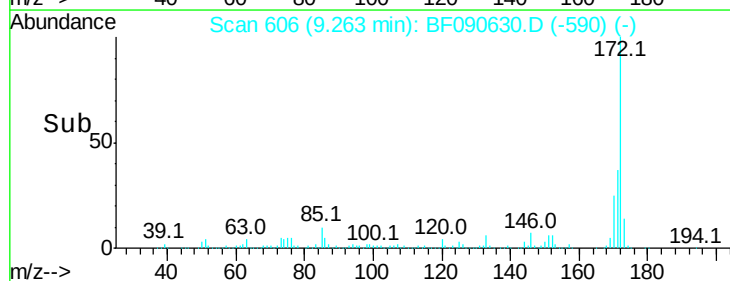
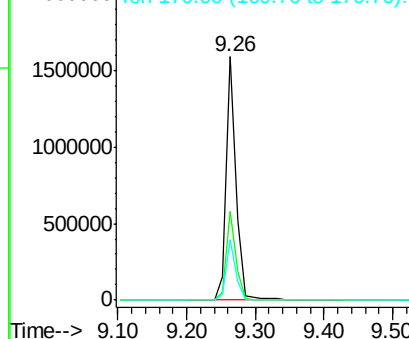
172 100

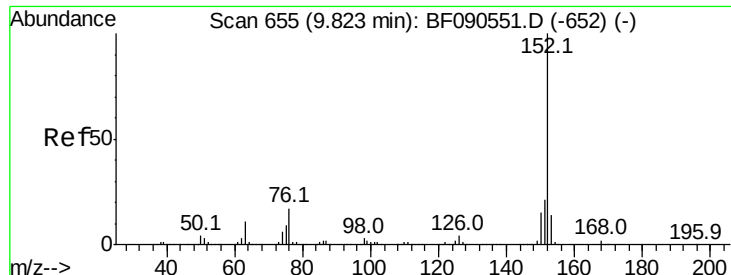
171 36.7 30.1 45.1

170 25.0 20.6 30.8



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





#48

Acenaphthylene

Concen: 2.53 ng

RT: 9.80 min Scan# 653

Delta R.T. -0.02 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

Instrument :

BNA_F

ClientSampleId :

SP-3-1

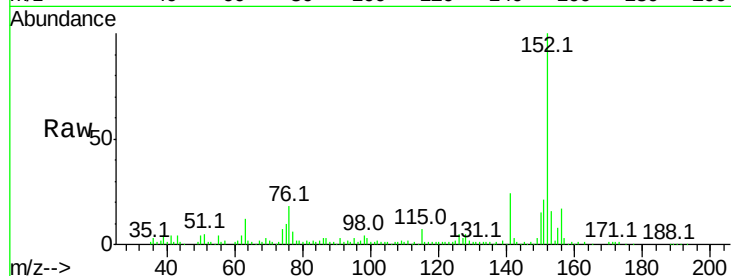
Tot Ion:152 Resp: 116422

Ion Ratio Lower Upper

152 100

151 20.8 16.6 25.0

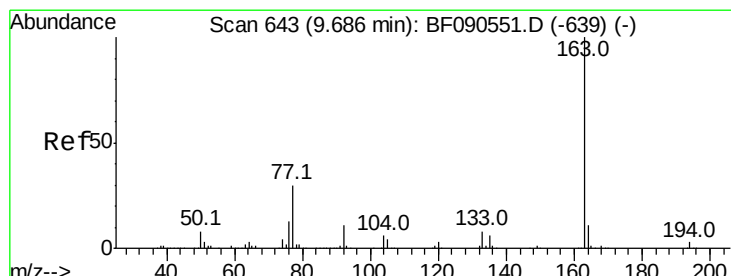
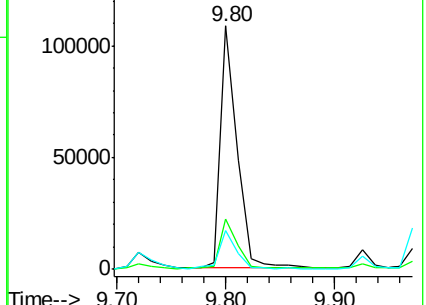
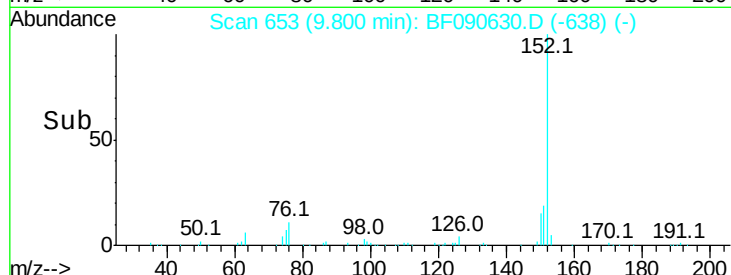
153 15.9 11.3 16.9



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: 24.11 ng

RT: 9.66 min Scan# 641

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

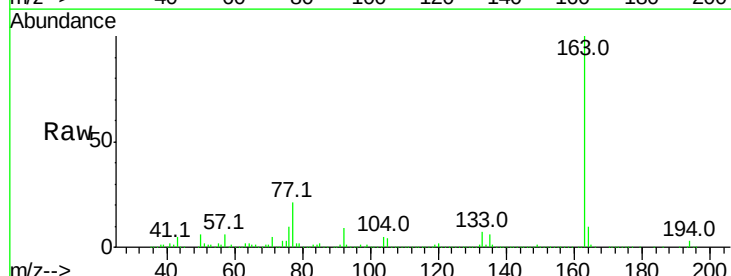
Tgt Ion:163 Resp: 797146

Ion Ratio Lower Upper

163 100

194 3.5 2.3 3.5

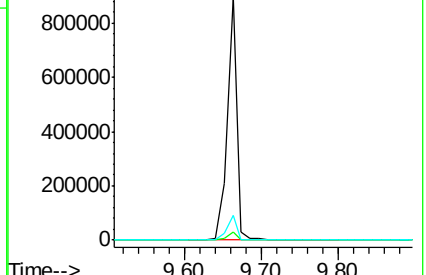
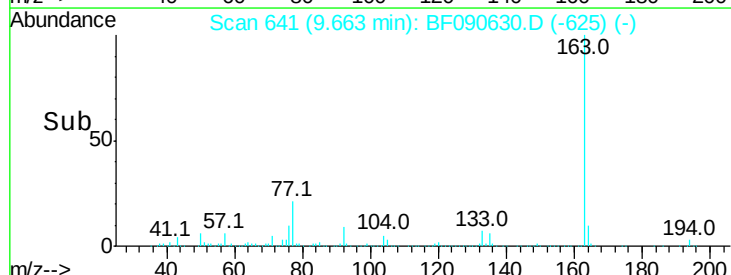
164 10.2 8.6 13.0

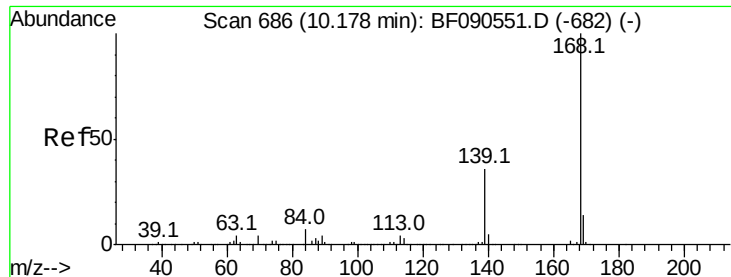


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

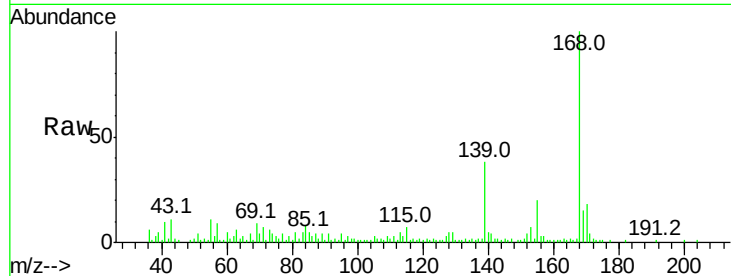




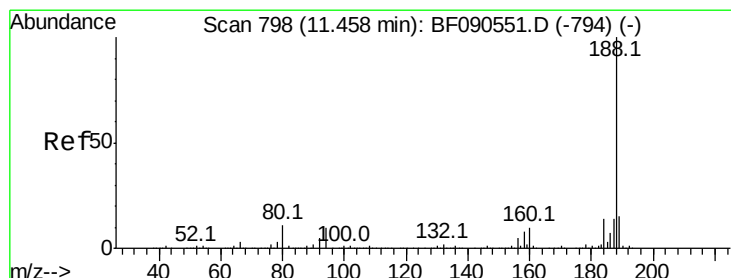
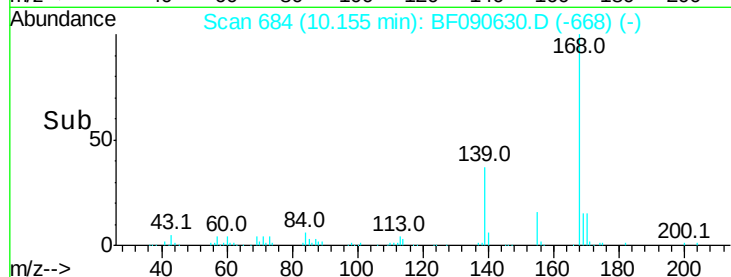
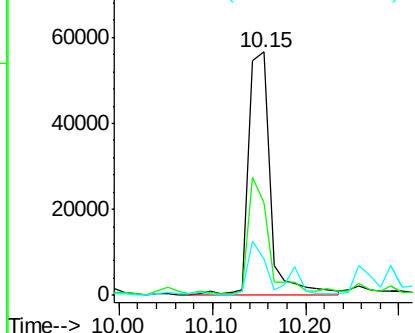
#54
Dibenzofuran
Concen: 2.28 ng
RT: 10.15 min Scan# 684
Delta R.T. -0.01 min
Lab File: BF090630.D
Acq: 18 Oct 2016 16:18

Instrument :
BNA_F
ClientSampleId :
SP-3-1

Tot Ion:168 Resp: 91724
Ion Ratio Lower Upper
168 100
139 38.2 30.5 45.7
169 15.1 10.9 16.3

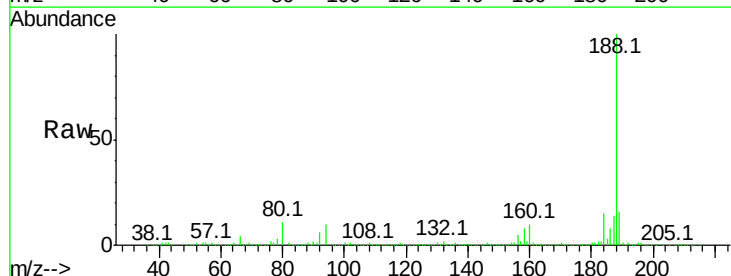


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

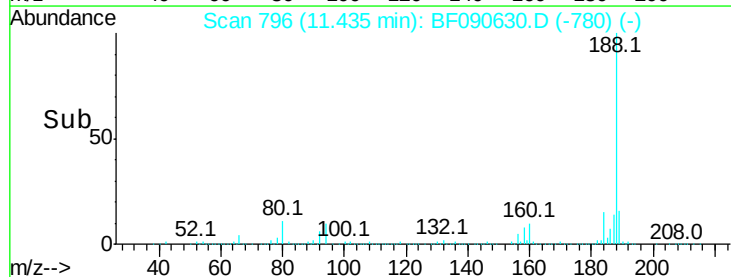
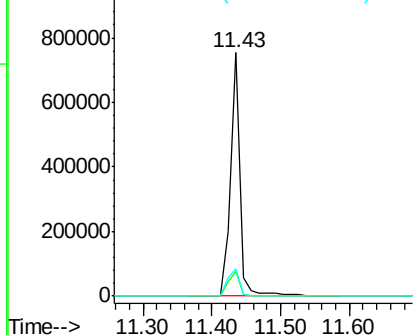


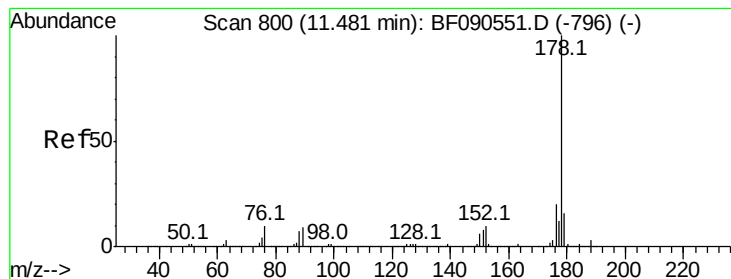
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.43 min Scan# 796
Delta R.T. -0.01 min
Lab File: BF090630.D
Acq: 18 Oct 2016 16:18

Tgt Ion:188 Resp: 744294
Ion Ratio Lower Upper
188 100
94 10.1 7.7 11.5
80 11.4 8.6 12.8



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





#70

Phenanthrene

Concen: 9.37 ng

RT: 11.46 min Scan# 798

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

Instrument :

BNA_F

ClientSampleId :

SP-3-1

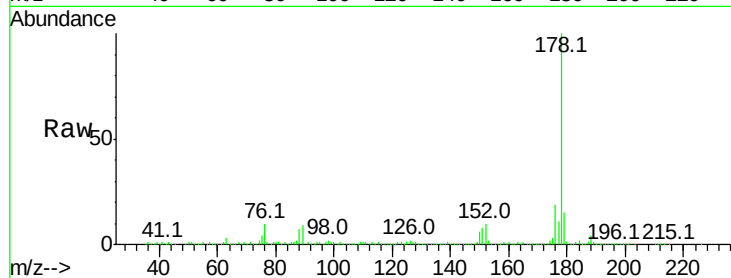
Tot Ion:178 Resp: 372137

Ion Ratio Lower Upper

178 100

176 19.2 16.1 24.1

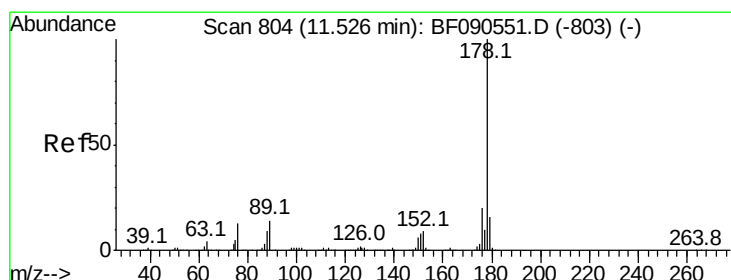
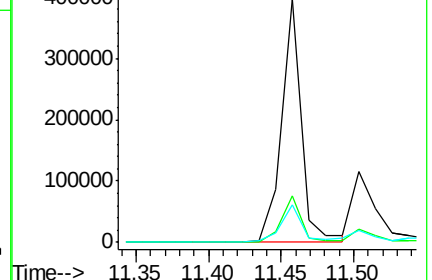
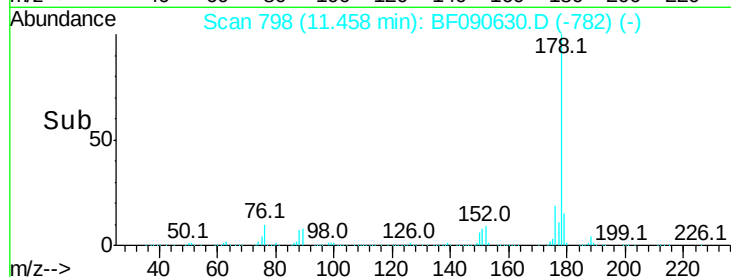
179 15.2 12.6 19.0



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: 3.40 ng

RT: 11.50 min Scan# 802

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

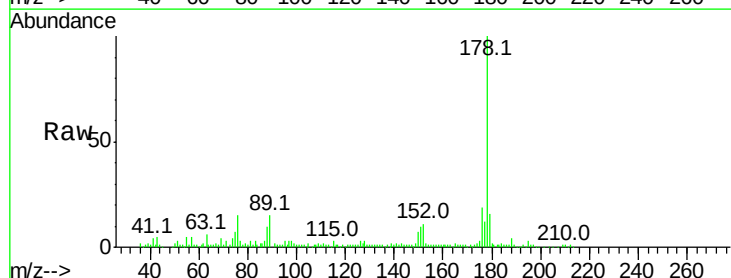
Tgt Ion:178 Resp: 145293

Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

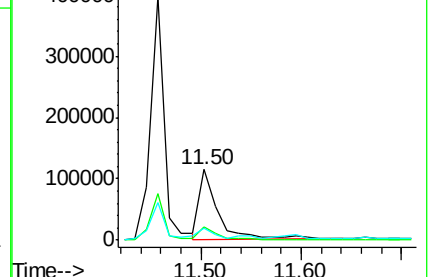
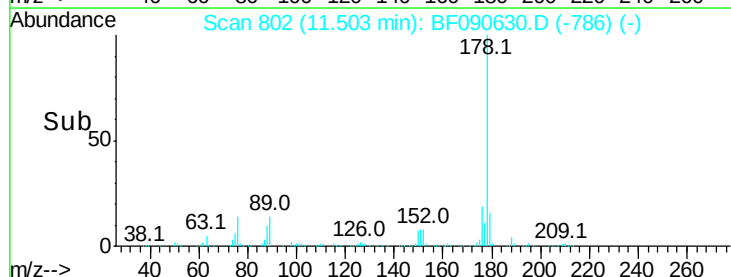
179 16.3 13.0 19.4

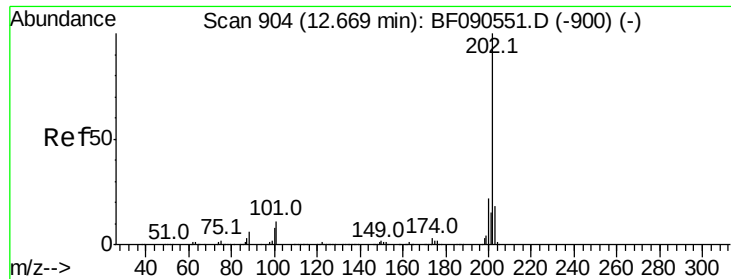


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 13.74 ng

RT: 12.65 min Scan# 902

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

Instrument :

BNA_F

ClientSampleId :

SP-3-1

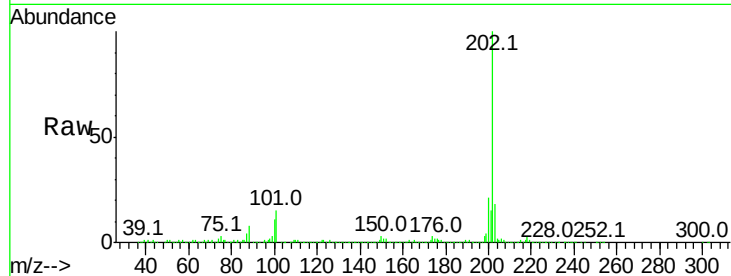
Tot Ion:202 Resp: 549008

Ion Ratio Lower Upper

202 100

101 15.4 0.0 31.1

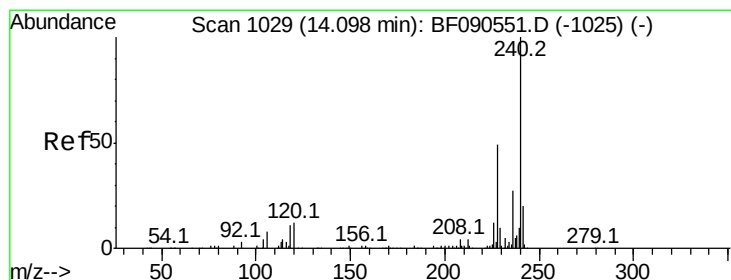
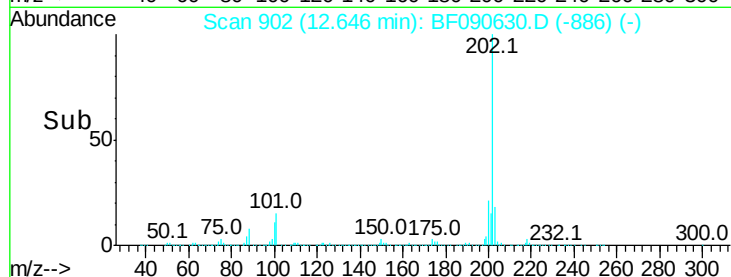
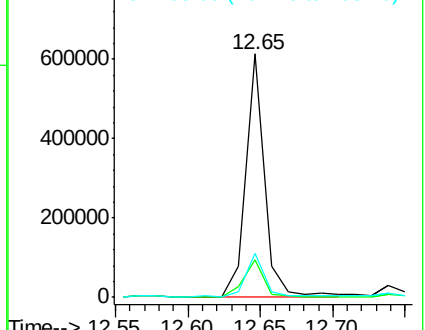
203 18.2 0.0 38.0



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: 14.08 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

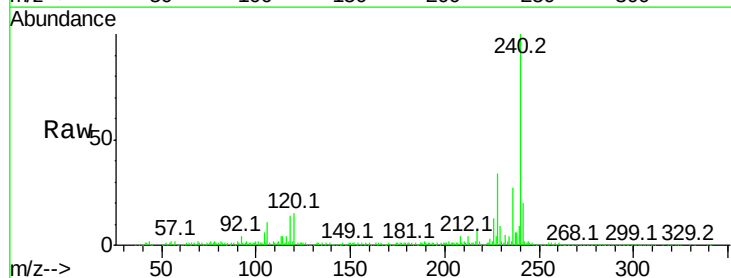
Tgt Ion:240 Resp: 515688

Ion Ratio Lower Upper

240 100

120 15.4 9.8 14.8#

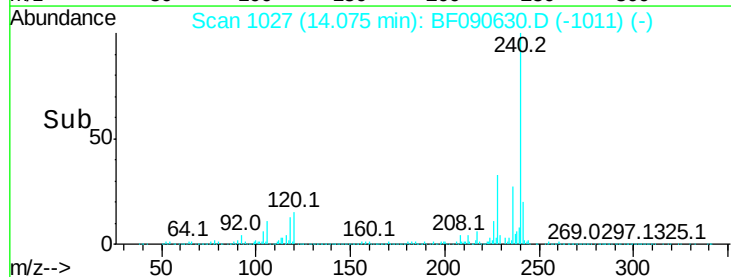
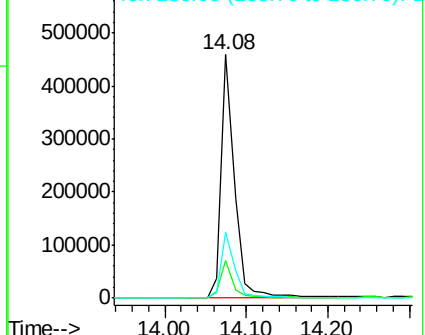
236 26.9 21.7 32.5

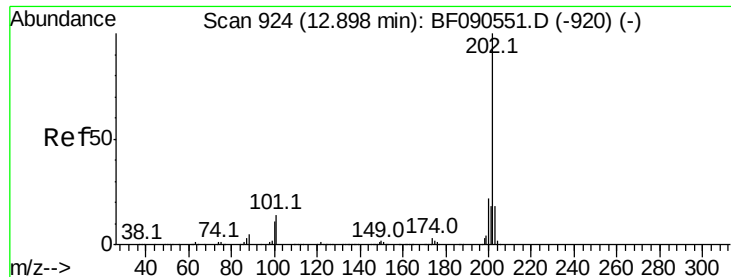


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 14.45 ng

RT: 12.87 min Scan# 922

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

Instrument :

BNA_F

ClientSampled :

SP-3-1

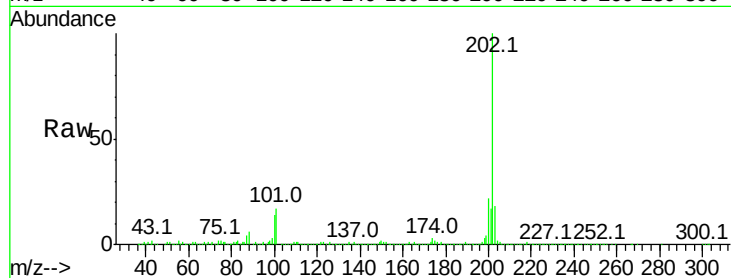
Tot Ion:202 Resp: 493499

Ion Ratio Lower Upper

202 100

200 21.8 17.8 26.6

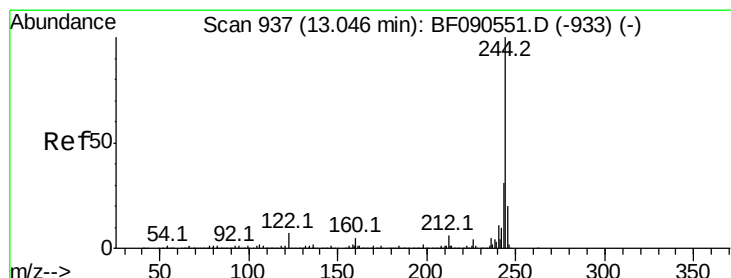
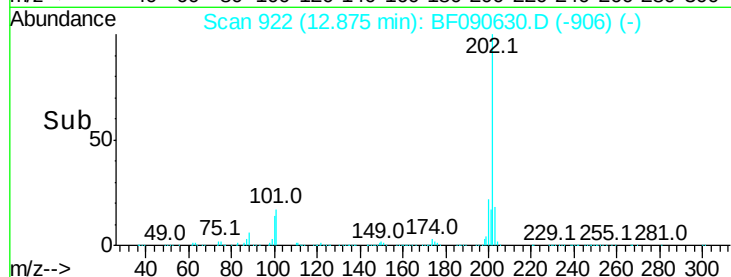
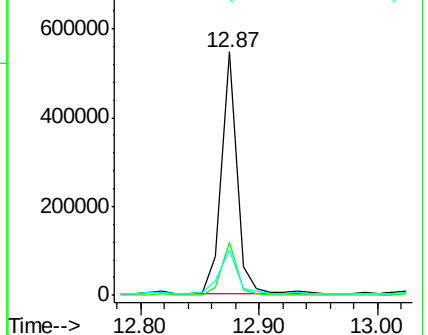
203 18.3 14.6 21.8



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: 61.07 ng

RT: 13.02 min Scan# 935

Delta R.T. -0.01 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

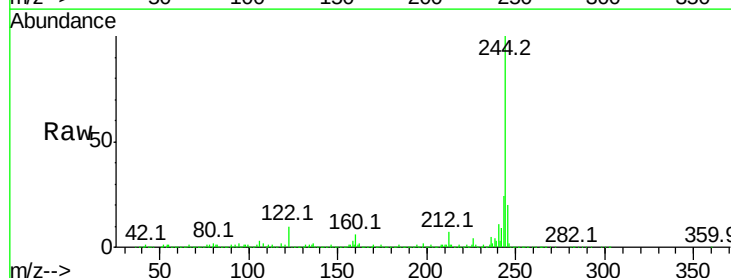
Tgt Ion:244 Resp: 1352561

Ion Ratio Lower Upper

244 100

212 6.7 5.0 7.4

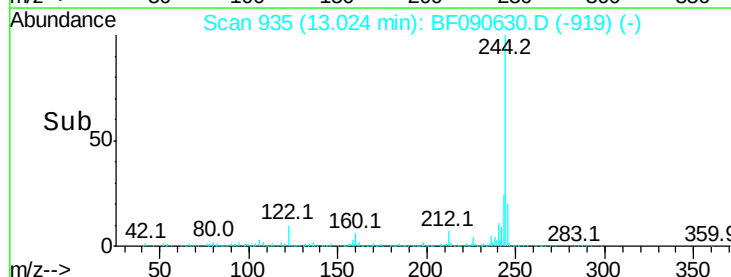
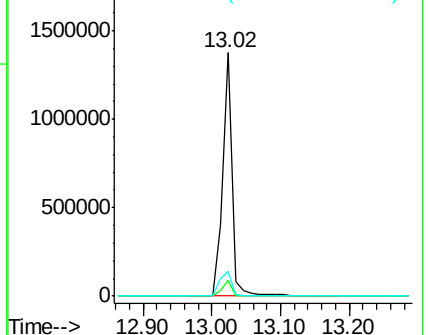
122 10.1 5.6 8.4#

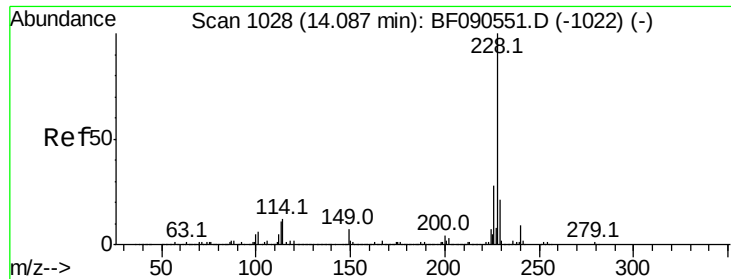


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

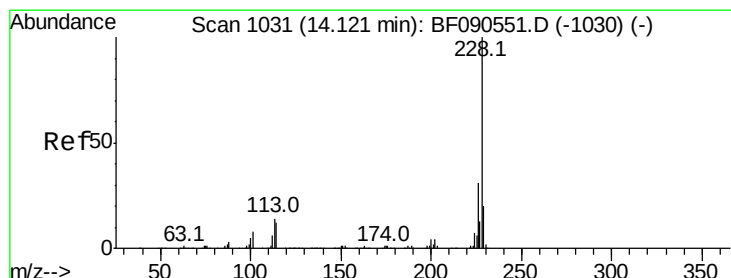
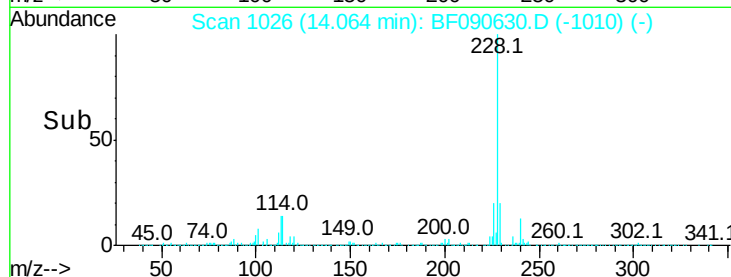
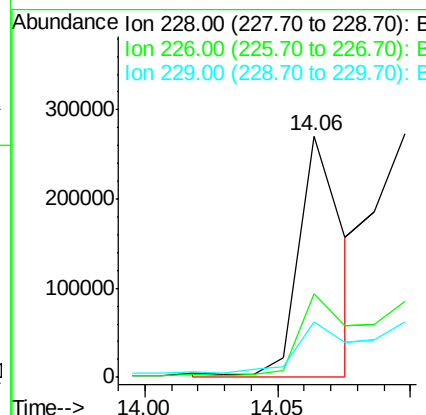
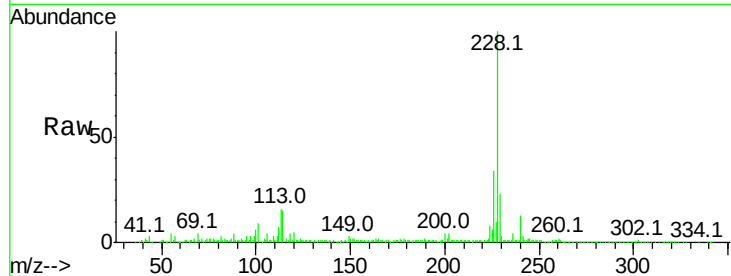




#80
Benzo(a)anthracene
Concen: 10.70 ng m
RT: 14.06 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BF090630.D
Acq: 18 Oct 2016 16:18

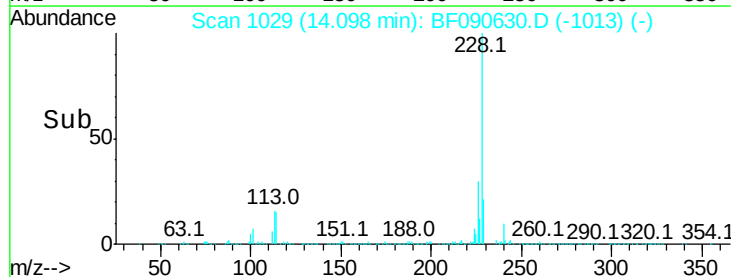
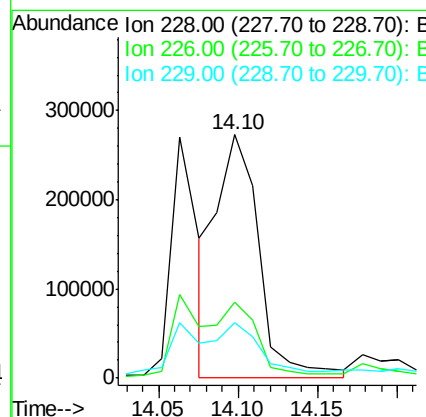
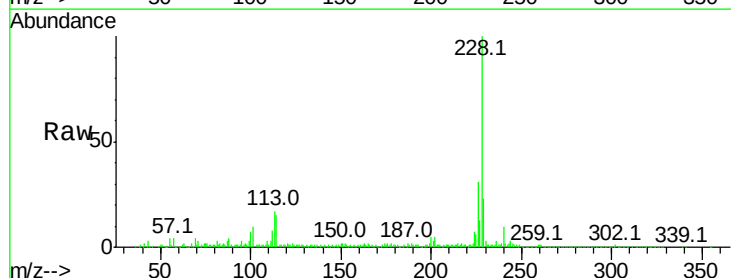
Instrument :
BNA_F
ClientSampleId :
SP-3-1

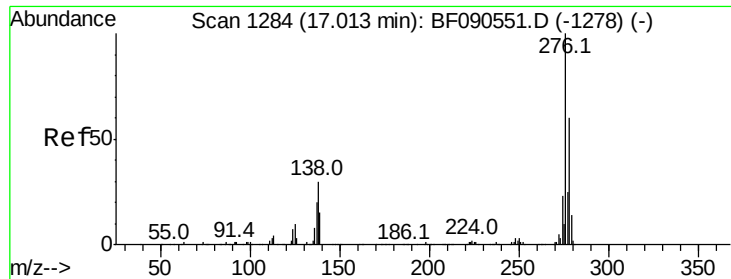
Tot Ion:228 Resp: 313998
Ion Ratio Lower Upper
228 100
226 34.5 22.8 34.2#
229 22.7 16.6 25.0



#82
Chrysene
Concen: 18.36 ng m
RT: 14.10 min Scan# 1029
Delta R.T. -0.01 min
Lab File: BF090630.D
Acq: 18 Oct 2016 16:18

Tgt Ion:228 Resp: 519244
Ion Ratio Lower Upper
228 100
226 31.0 24.8 37.2
229 22.8 16.2 24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 15.86 ng

RT: 16.99 min Scan# 1282

Delta R.T. -0.00 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

Instrument :

BNA_F

ClientSampleId :

SP-3-1

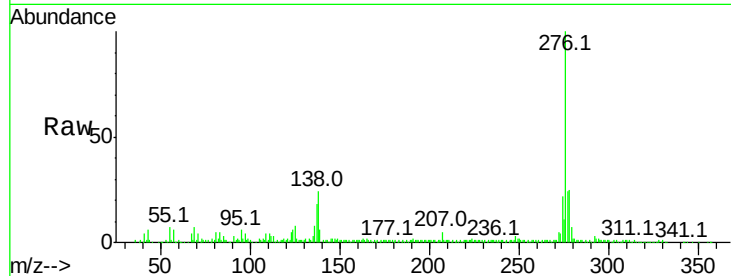
Tot Ion:276 Resp: 259469

Ion Ratio Lower Upper

276 100

138 25.6 25.8 38.6#

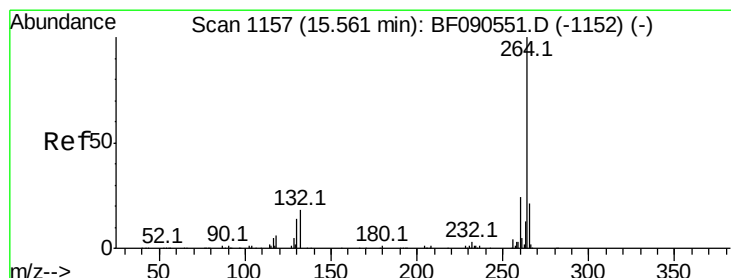
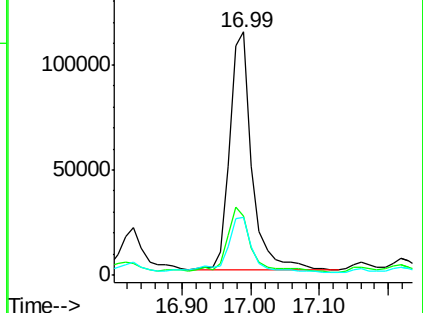
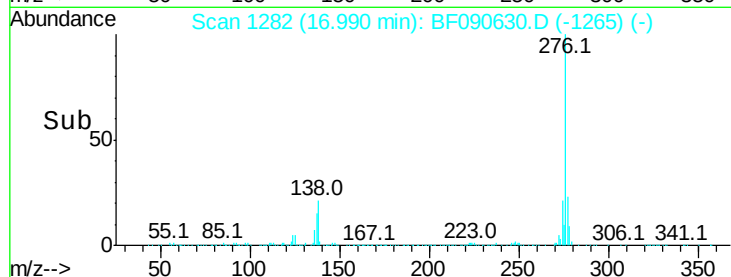
277 27.5 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.54 min Scan# 1155

Delta R.T. -0.00 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

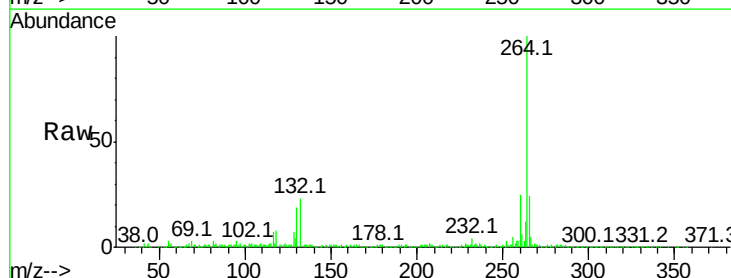
Tgt Ion:264 Resp: 488647

Ion Ratio Lower Upper

264 100

260 25.2 19.3 28.9

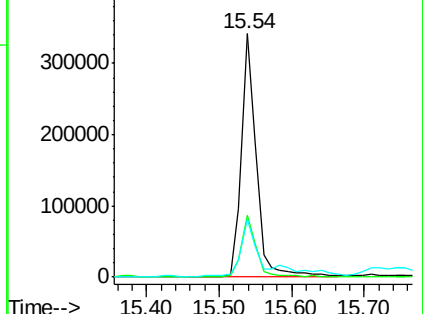
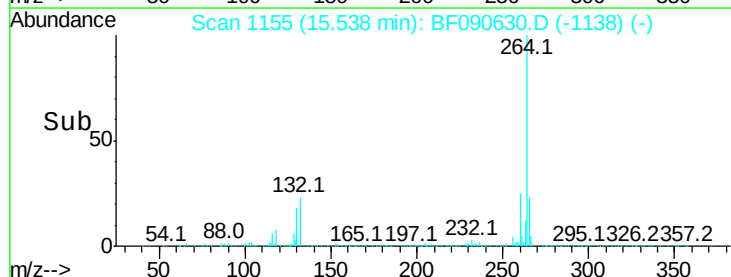
265 23.6 16.7 25.1

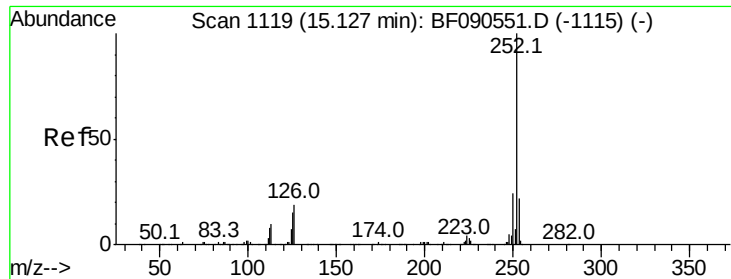


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

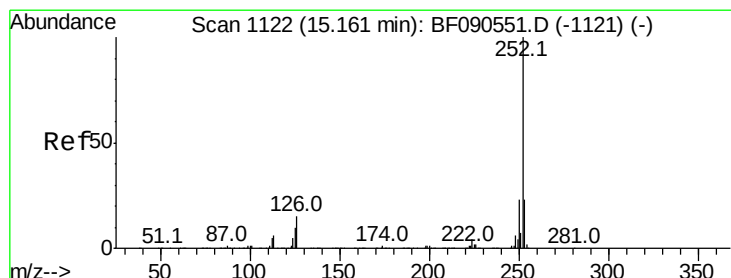
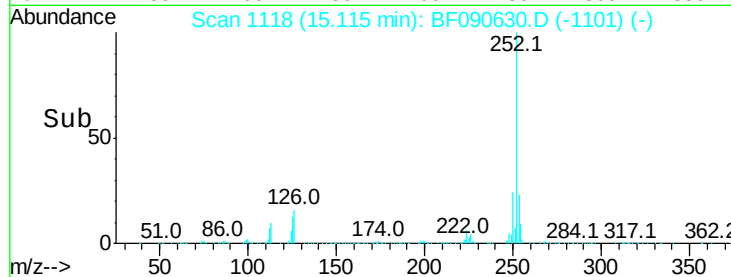
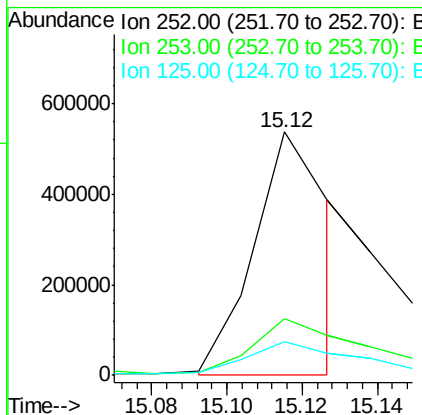
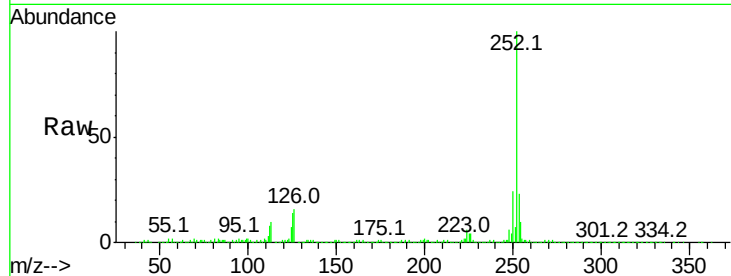




#87
Benzo(b)fluoranthene
Concen: 23.63 ng m
RT: 15.12 min Scan# 1118
Delta R.T. -0.00 min
Lab File: BF090630.D
Acq: 18 Oct 2016 16:18

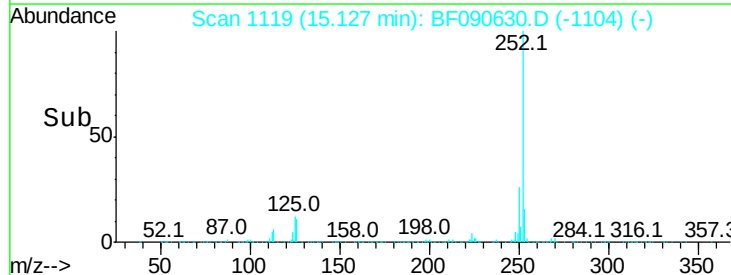
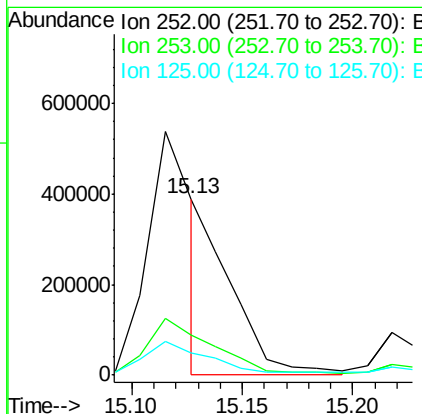
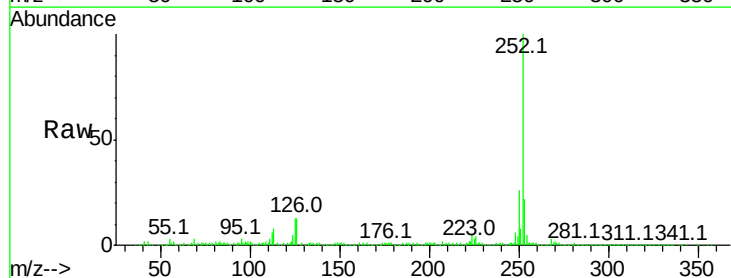
Instrument :
BNA_F
ClientSampleId :
SP-3-1

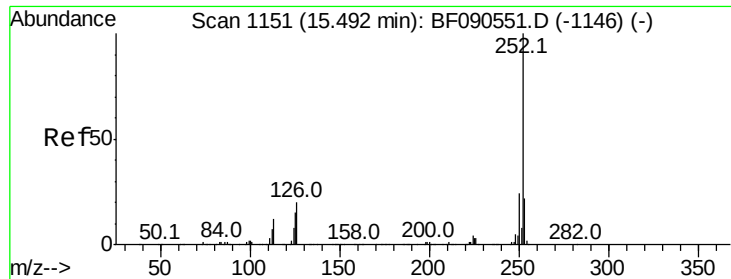
Tot Ion:252 Resp: 755616
Ion Ratio Lower Upper
252 100
253 23.3 17.8 26.8
125 13.7 12.0 18.0



#88
Benzo(k)fluoranthene
Concen: 10.15 ng m
RT: 15.13 min Scan# 1119
Delta R.T. -0.02 min
Lab File: BF090630.D
Acq: 18 Oct 2016 16:18

Tgt Ion:252 Resp: 349123
Ion Ratio Lower Upper
252 100
253 22.4 18.0 27.0
125 12.6 10.0 15.0





#89

Benzo(a)pyrene

Concen: 12.44 ng

RT: 15.48 min Scan# 1150

Delta R.T. -0.00 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

Instrument :

BNA_F

ClientSampleId :

SP-3-1

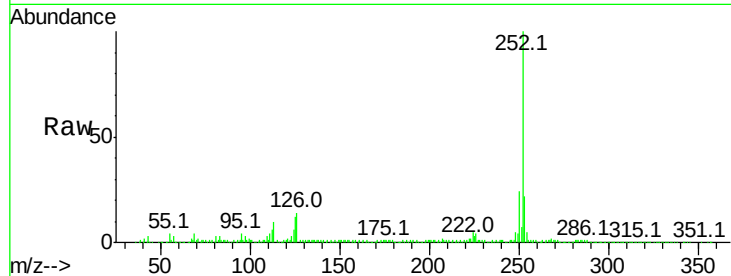
Tot Ion:252 Resp: 364084

Ion Ratio Lower Upper

252 100

253 21.8 17.9 26.9

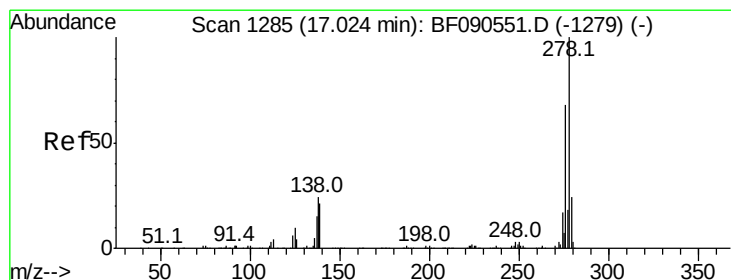
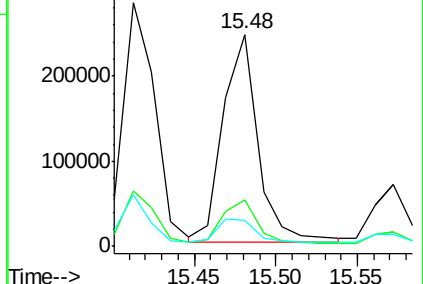
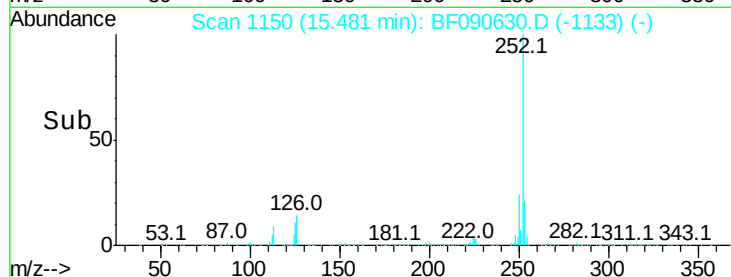
125 12.0 12.3 18.5#



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: 2.89 ng

RT: 16.99 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

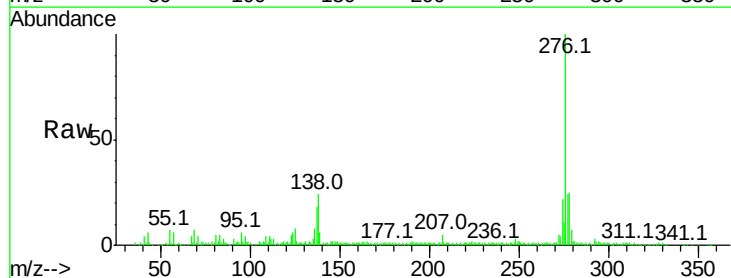
Tgt Ion:278 Resp: 64450

Ion Ratio Lower Upper

278 100

139 24.8 16.6 25.0

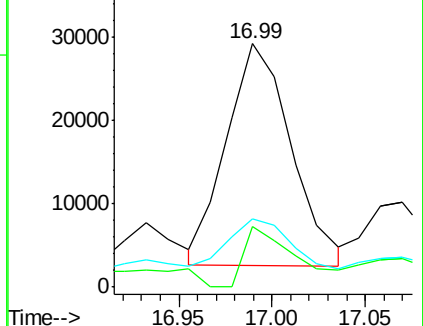
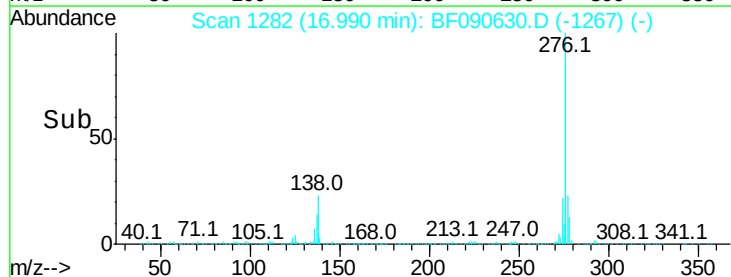
279 27.8 19.1 28.7

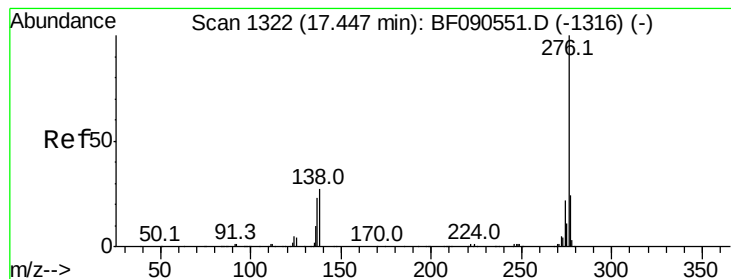


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 10.49 ng

RT: 17.42 min Scan# 1320

Delta R.T. -0.00 min

Lab File: BF090630.D

Acq: 18 Oct 2016 16:18

Instrument :

BNA_F

ClientSampleId :

SP-3-1

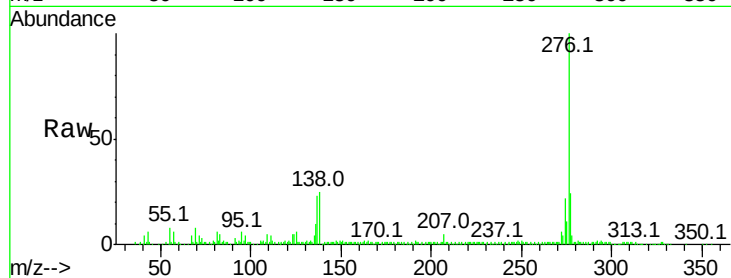
Tot Ion:276 Resp: 223326

Ion Ratio Lower Upper

276 100

277 24.3 18.8 28.2

138 25.3 21.8 32.8



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

