

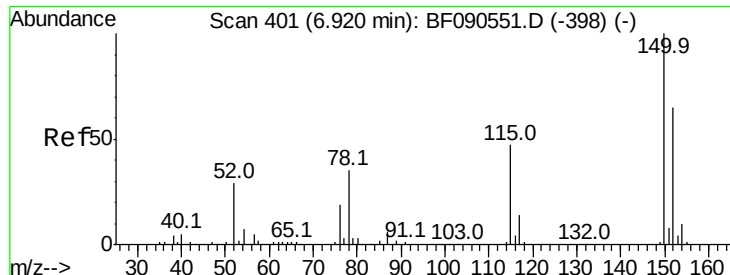
Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
 Data File : BF090629.D
 Acq On : 18 Oct 2016 15:51
 Operator : UM/SJ
 Sample : H5304-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-TP

Quant Time: Oct 19 01:31:48 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	223895	20.00	ng	-0.01
21) Naphthalene-d8	8.19	136	965085	20.00	ng	-0.01
38) Acenaphthene-d10	9.95	164	457755	20.00	ng	-0.01
63) Phenanthrene-d10	11.43	188	642498	20.00	ng	-0.01
75) Chrysene-d12	14.08	240	511324	20.00	ng	-0.01
86) Perylene-d12	15.55	264	558591	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	969533	79.39	ng	-0.01
7) Phenol-d6	6.53	99	1284427	70.78	ng	-0.01
23) Nitrobenzene-d5	7.46	82	799832	46.04	ng	-0.02
41) 2,4,6-Tribromophenol	10.74	330	222913	54.62	ng	-0.01
44) 2-Fluorobiphenyl	9.26	172	1208650	43.51	ng	-0.01
78) Terphenyl-d14	13.02	244	859758	39.15	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.54	94	48794	2.35	ng	95
48) Acenaphthylene	9.80	152	116000	2.80	ng	98
49) Dimethylphthalate	9.66	163	198324	6.68	ng	97
70) Phenanthrene	11.46	178	396010	11.55	ng	99
71) Anthracene	11.50	178	119647	3.24	ng	99
74) Fluoranthene	12.65	202	947001	27.45	ng	94
77) Pyrene	12.87	202	942740	27.84	ng	99
80) Benzo(a)anthracene	14.06	228	544209m	18.70	ng	
82) Chrysene	14.11	228	407138m	14.52	ng	
85) Indeno(1,2,3-cd)pyrene	17.00	276	330275	20.37	ng	94
87) Benzo(b)fluoranthene	15.13	252	792864m	21.69	ng	
88) Benzo(k)fluoranthene	15.14	252	227031m	5.77	ng	
89) Benzo(a)pyrene	15.48	252	538415	16.09	ng	96
90) Dibenzo(a,h)anthracene	17.00	278	57270	2.24	ng	# 71
91) Benzo(a,h,i)perylene	17.44	276	310425	12.76	ng	95

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

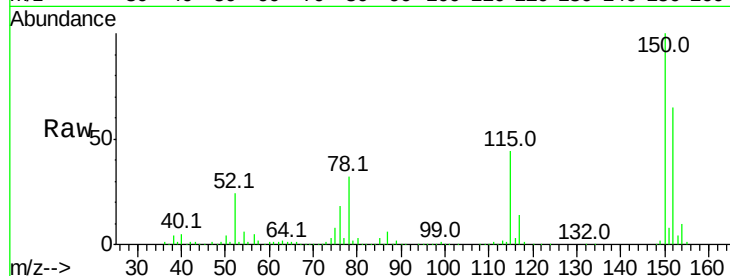


#1

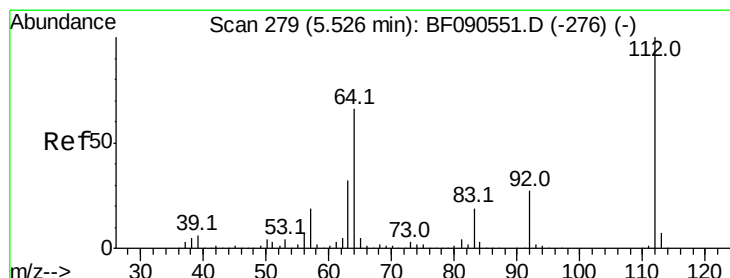
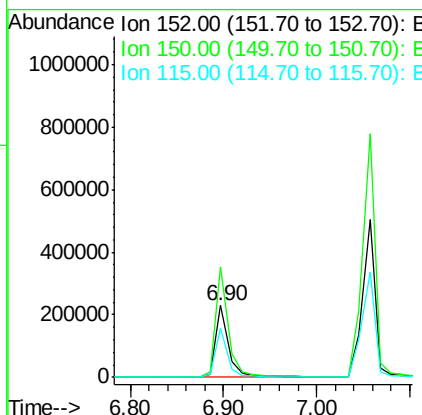
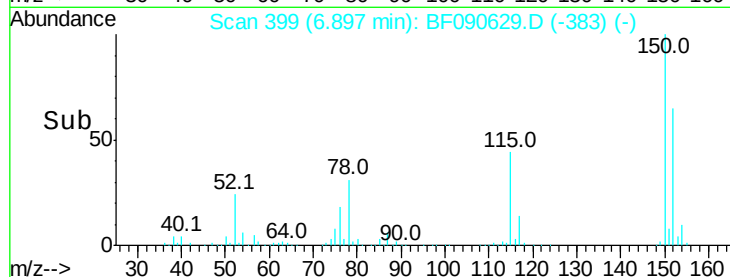
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 399
Delta R.T. -0.01 min
Lab File: BF090629.D
Acq: 18 Oct 2016 15:51

Instrument :
BNA_F
ClientSampleId :
COMP-TP

Tot Ion:152 Resp: 223895
Ion Ratio Lower Upper
152 100
150 154.0 127.2 190.8
115 67.4 58.6 88.0



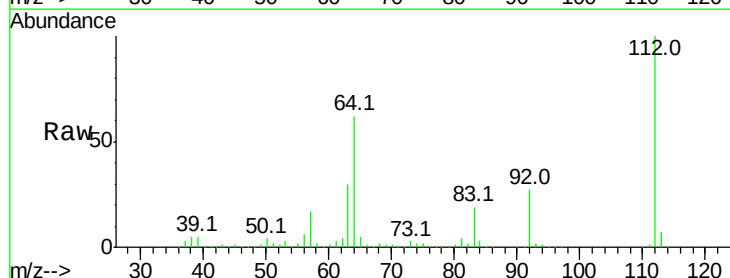
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



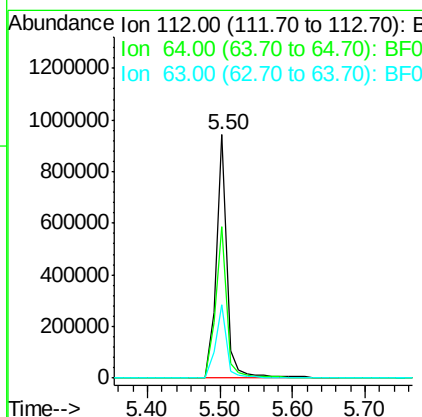
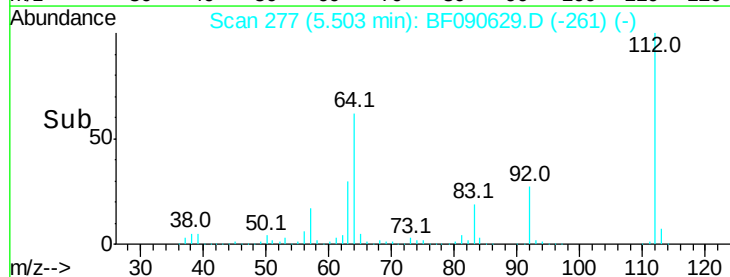
#5

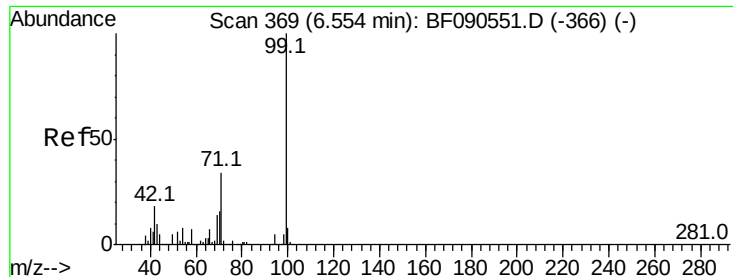
2-Fluorophenol
Concen: 79.39 ng
RT: 5.50 min Scan# 277
Delta R.T. -0.01 min
Lab File: BF090629.D
Acq: 18 Oct 2016 15:51

Tgt Ion:112 Resp: 969533
Ion Ratio Lower Upper
112 100
64 62.4 52.6 78.8
63 30.2 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: 70.78 ng

RT: 6.53 min Scan# 367

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

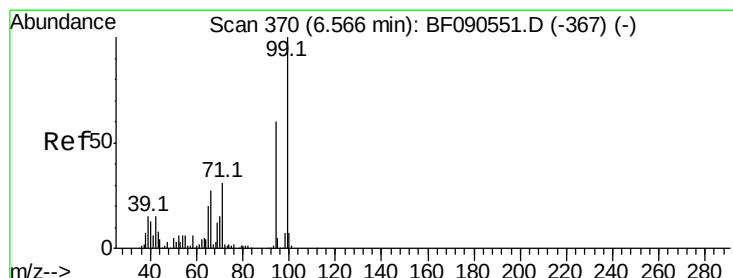
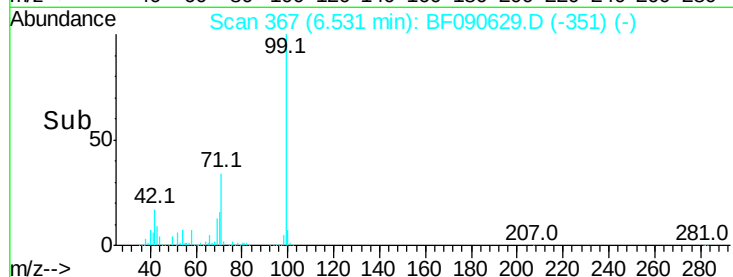
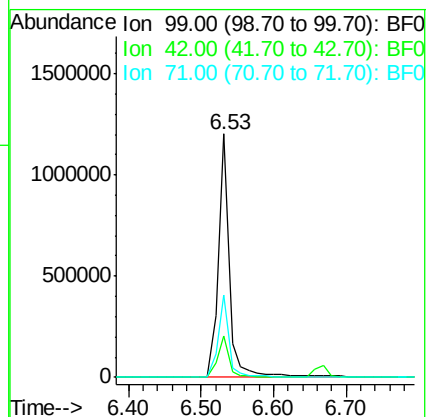
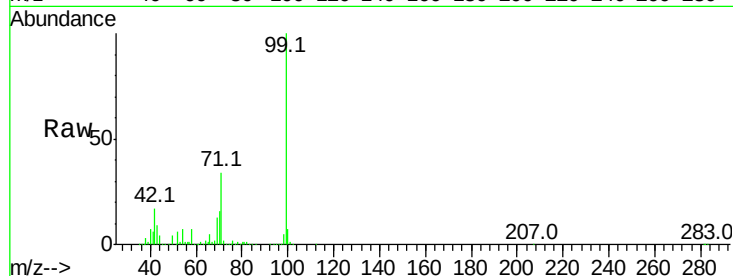
BNA_F

ClientSampleId :

COMP-TP

Tot Ion: 99 Resp: 1284427

Ion	Ratio	Lower	Upper
99	100		
42	17.1	14.7	22.1
71	33.6	27.6	41.4



#10

Phenol

Concen: 2.35 ng

RT: 6.54 min Scan# 368

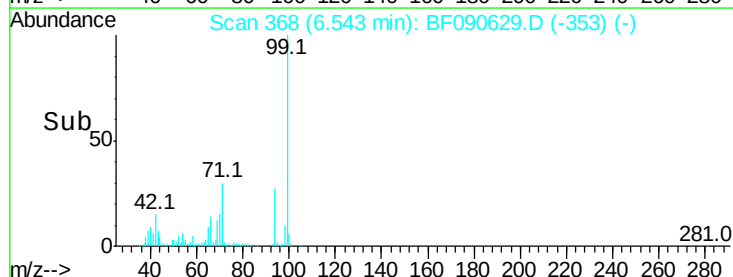
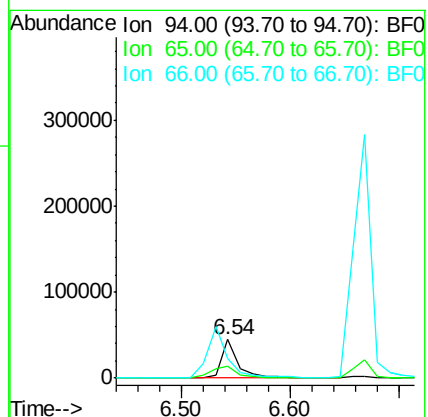
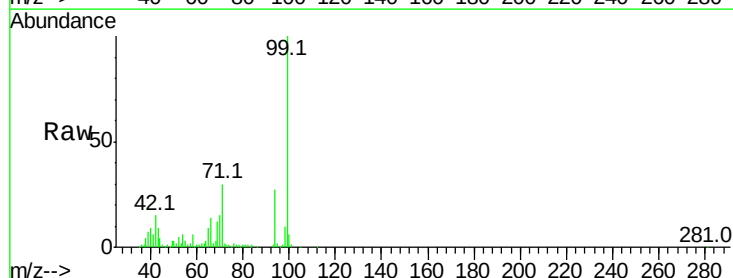
Delta R.T. -0.02 min

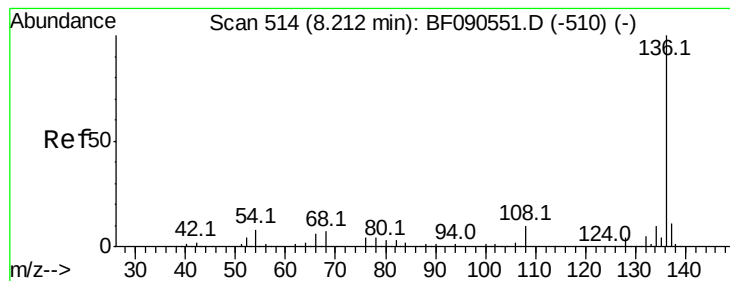
Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Tgt Ion: 94 Resp: 48794

Ion	Ratio	Lower	Upper
94	100		
65	32.2	12.5	52.5
66	51.4	25.5	65.5





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.19 min Scan# 512

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

Tot Ion:136 Resp: 965085

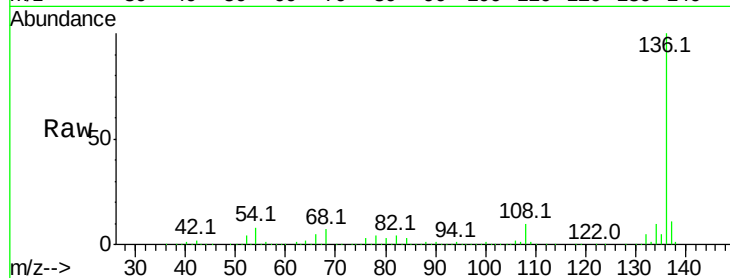
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 8.1 6.8 10.2

68 7.0 6.0 9.0

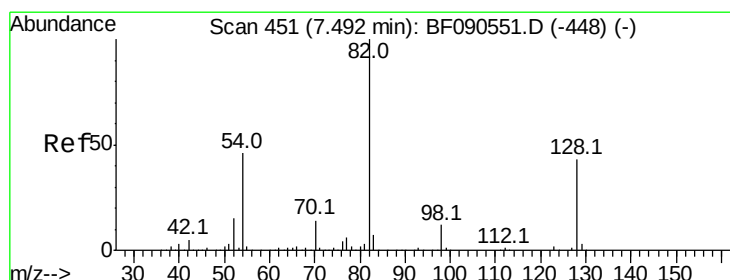
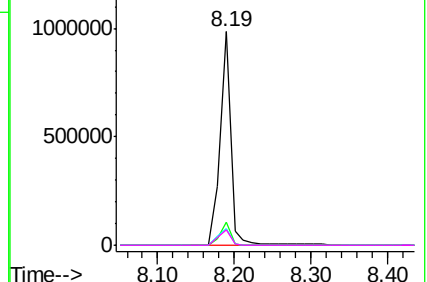
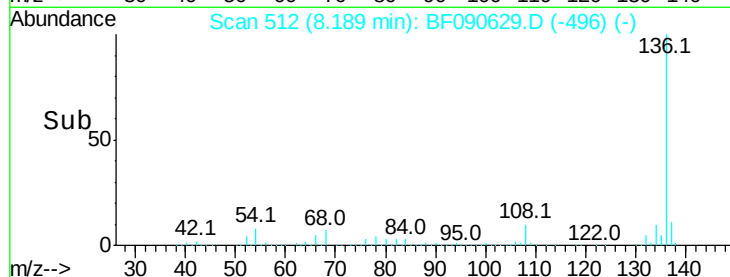


Abundance Ion 136.00 (135.70 to 136.70): E

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: 46.04 ng

RT: 7.46 min Scan# 448

Delta R.T. -0.02 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

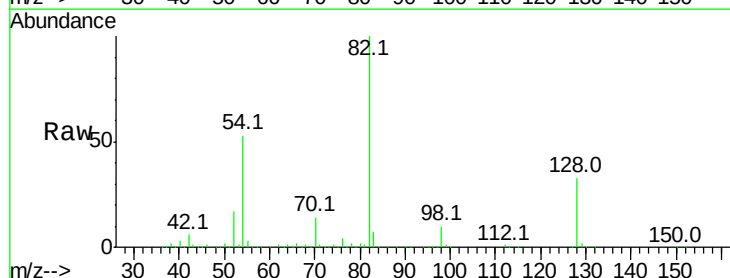
Tgt Ion: 82 Resp: 799832

Ion Ratio Lower Upper

82 100

128 33.3 34.3 51.5#

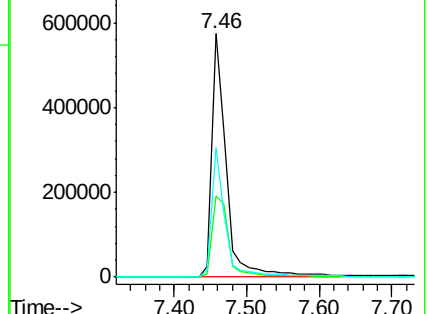
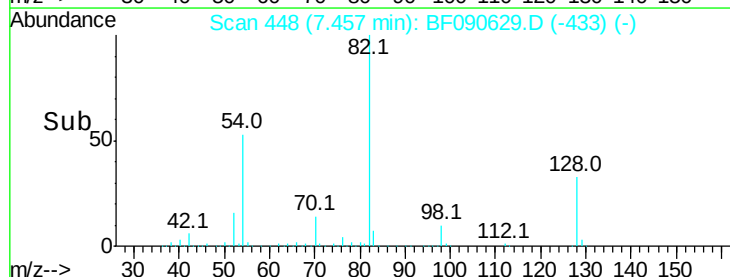
54 53.4 37.0 55.6

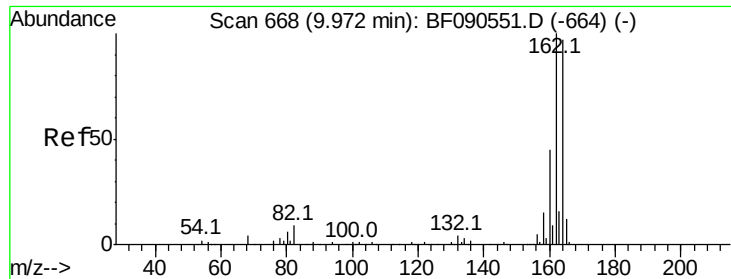


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

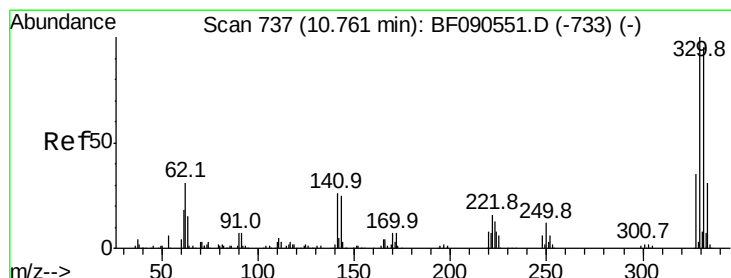
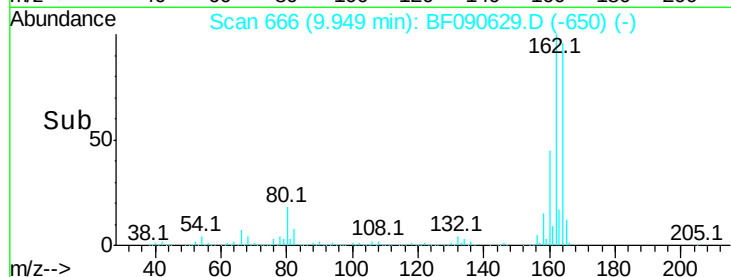
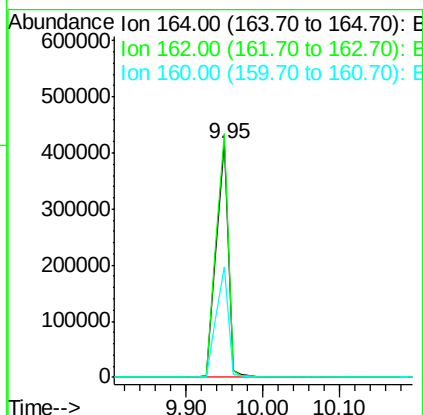
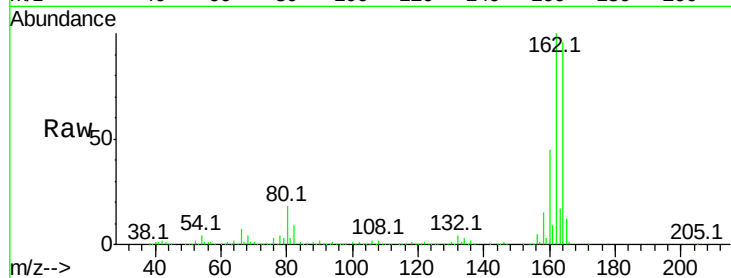




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.95 min Scan# 666
Delta R.T. -0.01 min
Lab File: BF090629.D
Acq: 18 Oct 2016 15:51

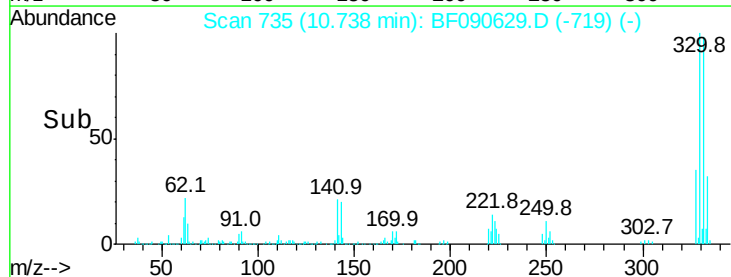
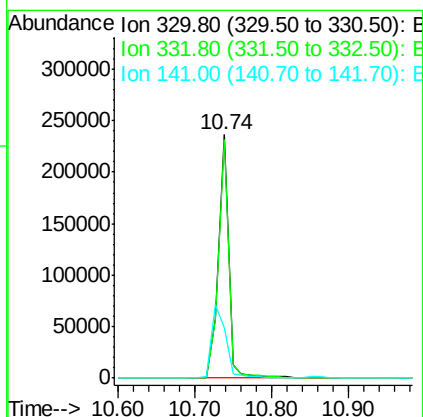
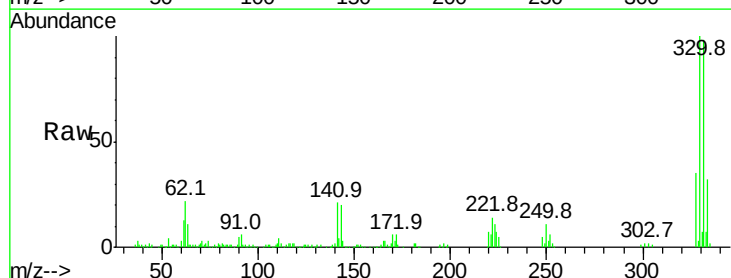
Instrument :
BNA_F
ClientSampled :
COMP-TP

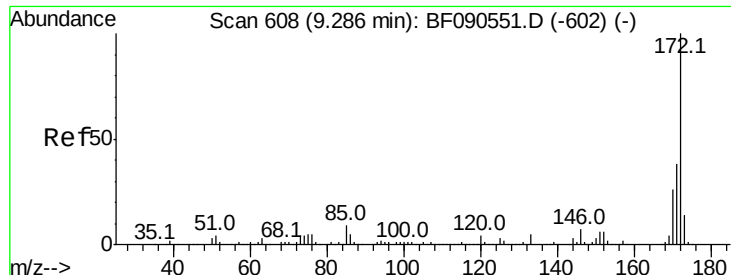
Tot Ion:164 Resp: 457755
Ion Ratio Lower Upper
164 100
162 103.8 82.2 123.4
160 46.9 36.6 55.0



#41
2,4,6-Tribromophenol
Concen: 54.62 ng
RT: 10.74 min Scan# 735
Delta R.T. -0.01 min
Lab File: BF090629.D
Acq: 18 Oct 2016 15:51

Tgt Ion:330 Resp: 222913
Ion Ratio Lower Upper
330 100
332 97.9 76.2 114.2
141 40.5 31.4 47.2



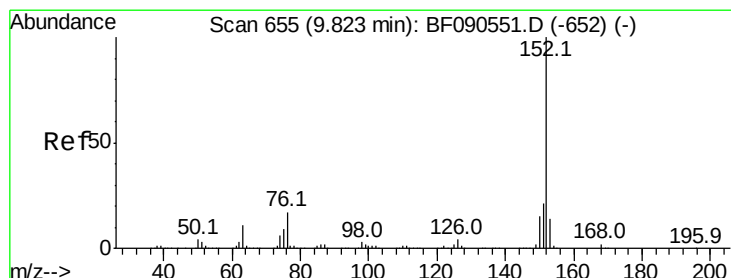
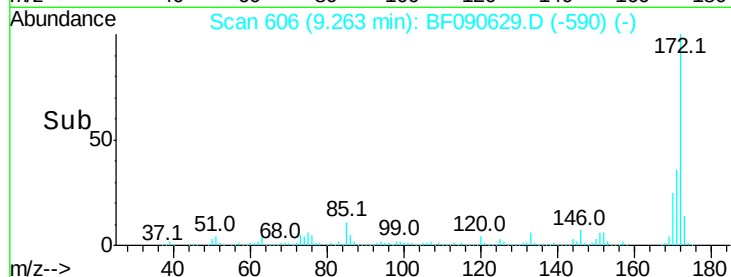
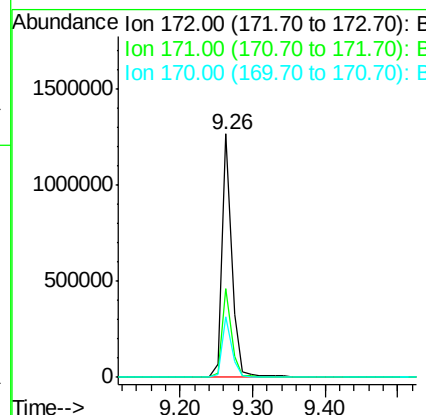
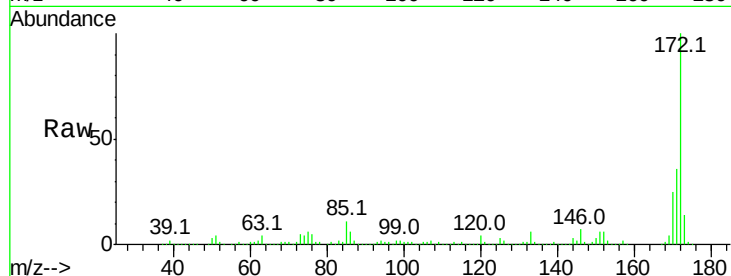


#44
 2-Fluorobiphenyl
 Concen: 43.51 ng
 RT: 9.26 min Scan# 606
 Delta R.T. -0.01 min
 Lab File: BF090629.D
 Acq: 18 Oct 2016 15:51

Instrument :
 BNA_F
 ClientSampleId :
 COMP-TP

Tot Ion:172 Resp: 1208650

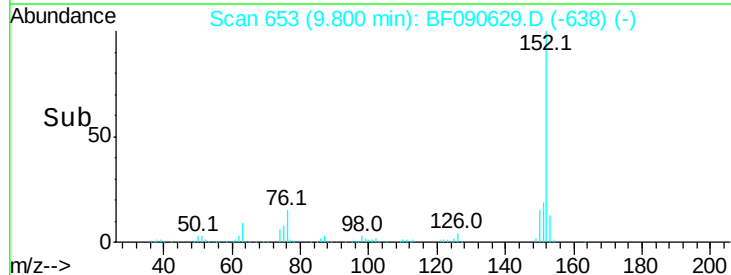
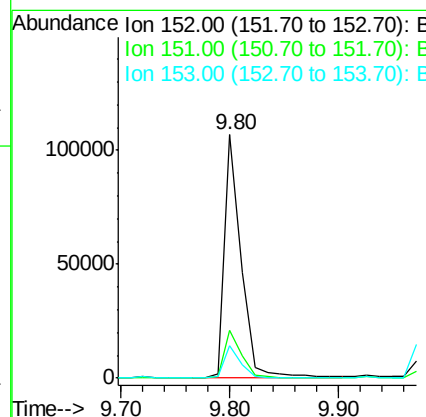
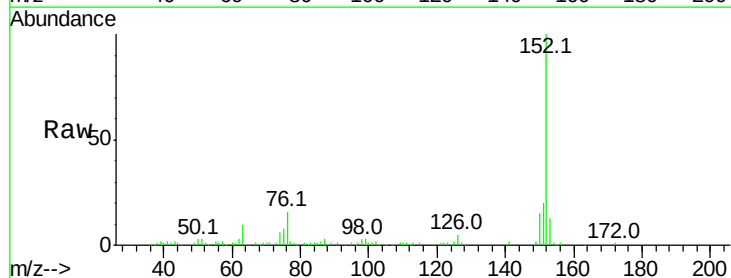
Ion	Ratio	Lower	Upper
172	100		
171	36.2	30.1	45.1
170	25.1	20.6	30.8

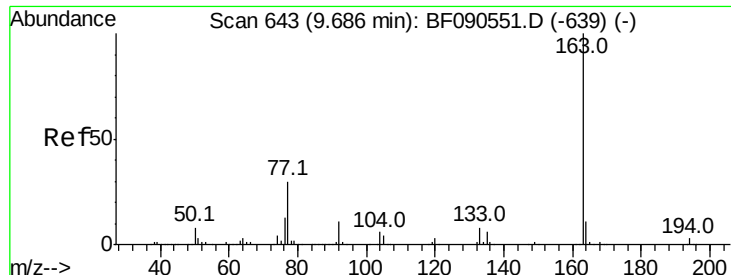


#48
 Acenaphthylene
 Concen: 2.80 ng
 RT: 9.80 min Scan# 653
 Delta R.T. -0.02 min
 Lab File: BF090629.D
 Acq: 18 Oct 2016 15:51

Tgt Ion:152 Resp: 116000

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.6	25.0
153	13.5	11.3	16.9





#49

Dimethylphthalate

Concen: 6.68 ng

RT: 9.66 min Scan# 641

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

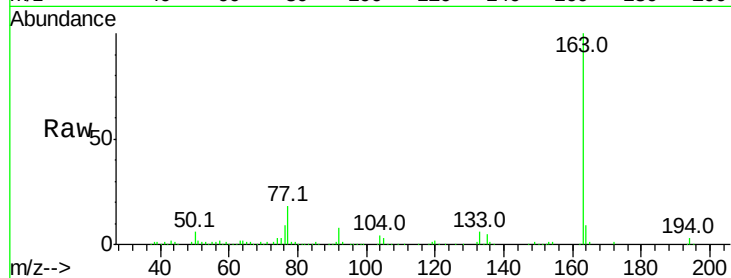
Tot Ion:163 Resp: 198324

Ion Ratio Lower Upper

163 100

194 3.2 2.3 3.5

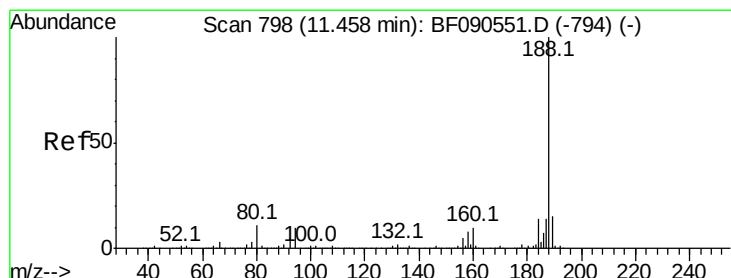
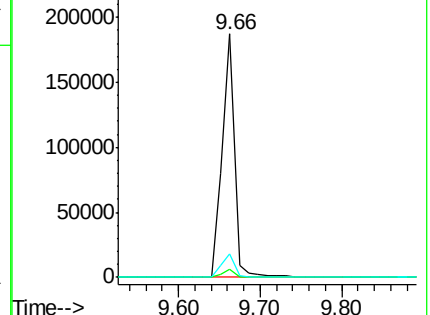
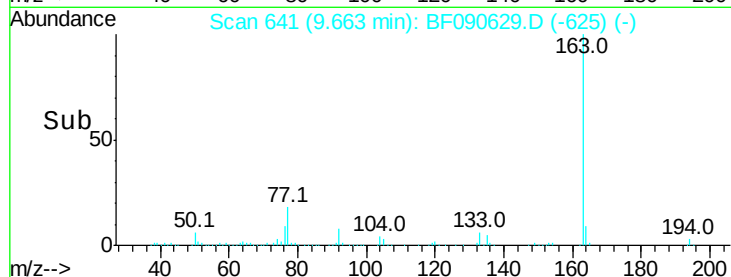
164 9.4 8.6 13.0



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.43 min Scan# 796

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

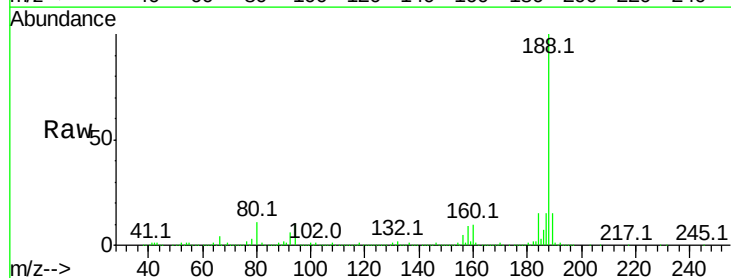
Tgt Ion:188 Resp: 642498

Ion Ratio Lower Upper

188 100

94 10.1 7.7 11.5

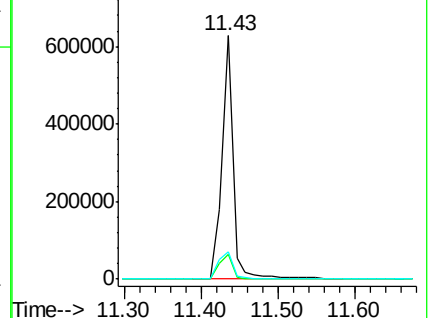
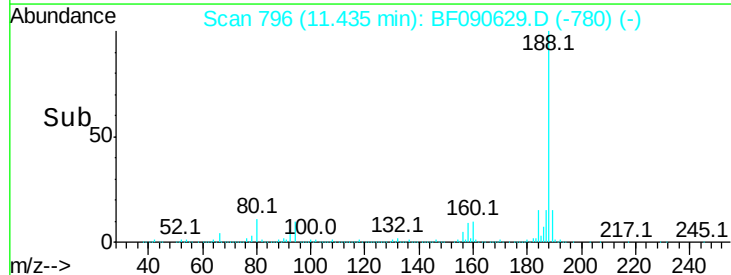
80 11.2 8.6 12.8

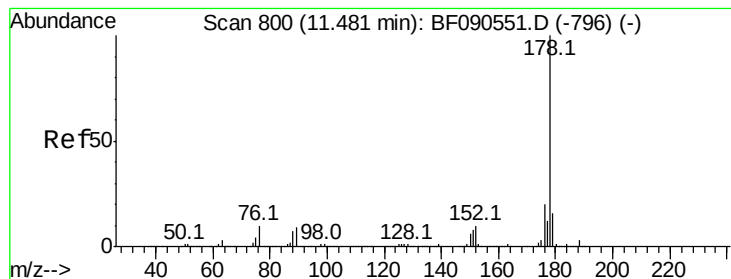


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 11.55 ng

RT: 11.46 min Scan# 798

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

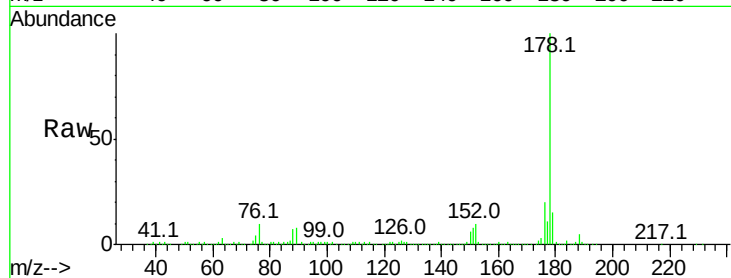
Tot Ion:178 Resp: 396010

Ion Ratio Lower Upper

178 100

176 19.5 16.1 24.1

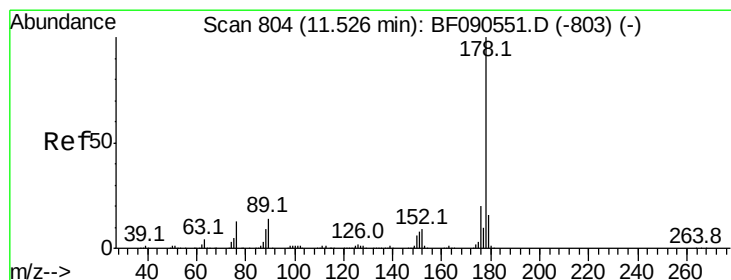
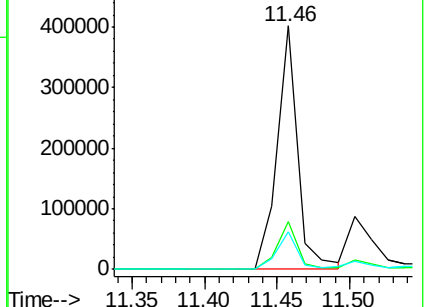
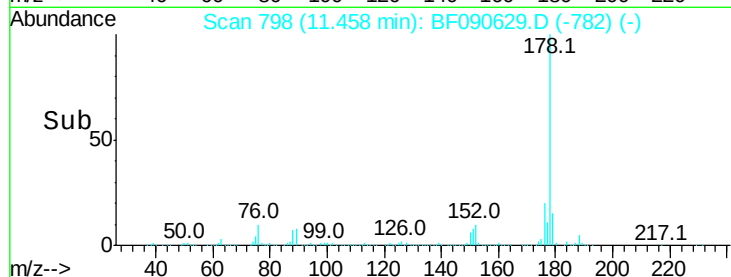
179 15.2 12.6 19.0



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: 3.24 ng

RT: 11.50 min Scan# 802

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

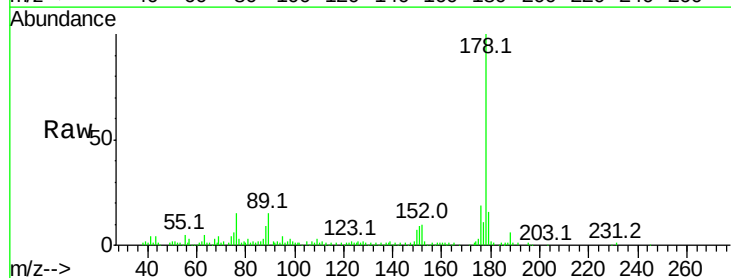
Tgt Ion:178 Resp: 119647

Ion Ratio Lower Upper

178 100

176 18.7 15.5 23.3

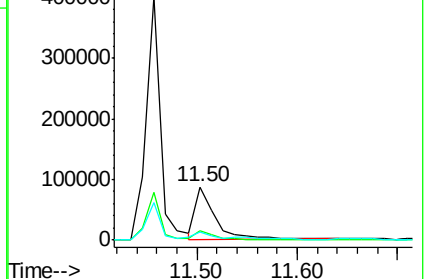
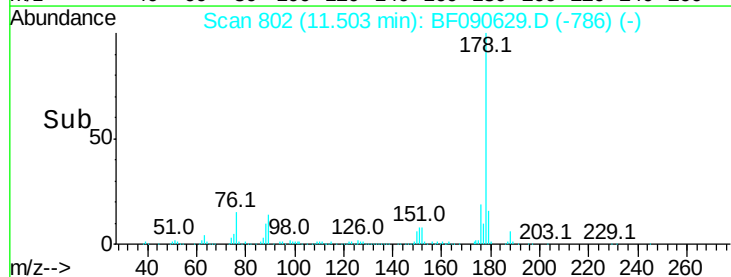
179 16.4 13.0 19.4

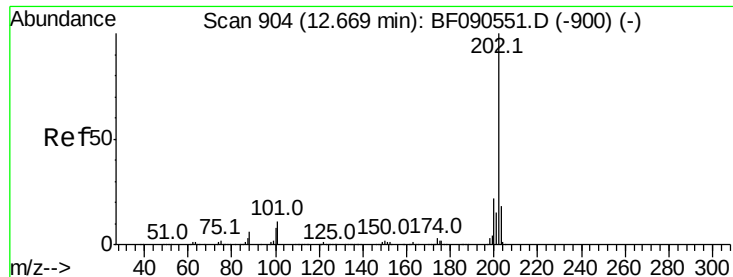


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 27.45 ng

RT: 12.65 min Scan# 902

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

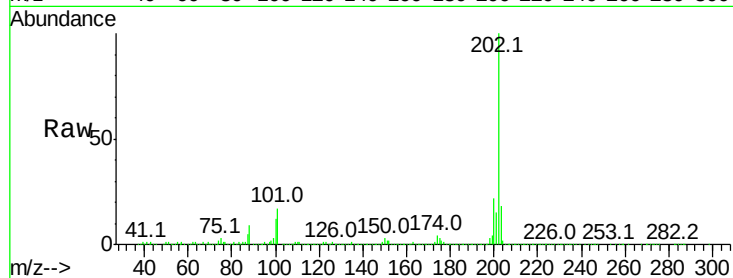
Tot Ion:202 Resp: 947001

Ion Ratio Lower Upper

202 100

101 16.8 0.0 31.1

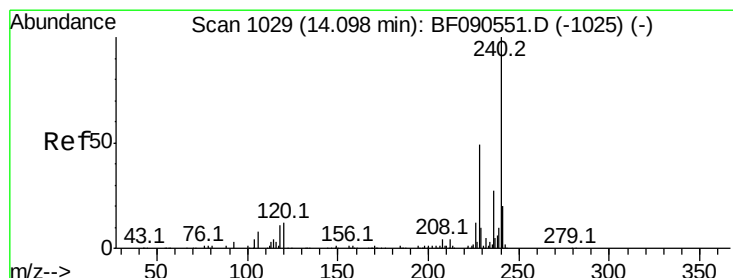
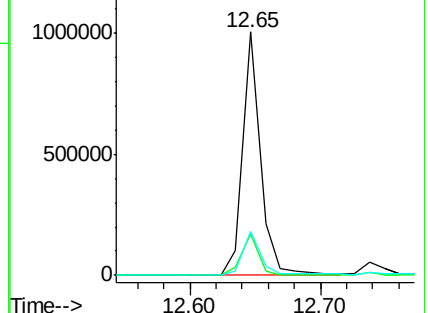
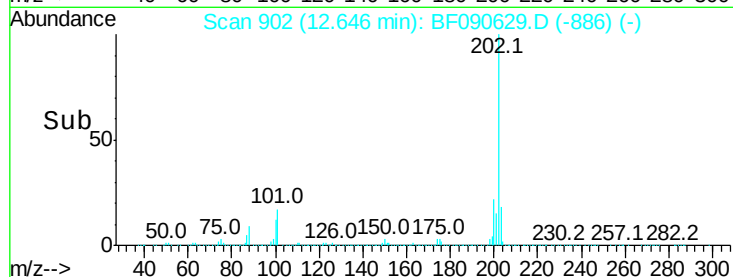
203 18.2 0.0 38.0



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: BF090629.D

Acq: 18 Oct 2016 15:51

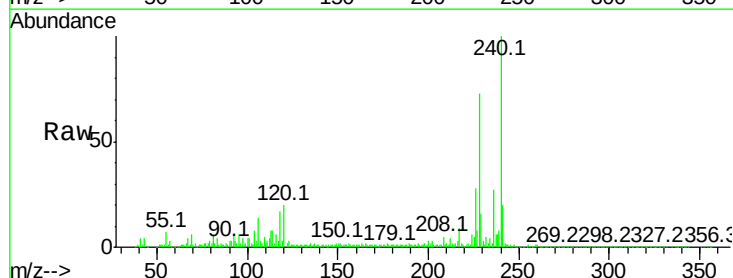
Tgt Ion:240 Resp: 511324

Ion Ratio Lower Upper

240 100

120 19.8 9.8 14.8#

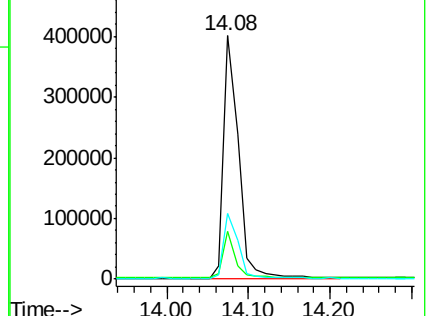
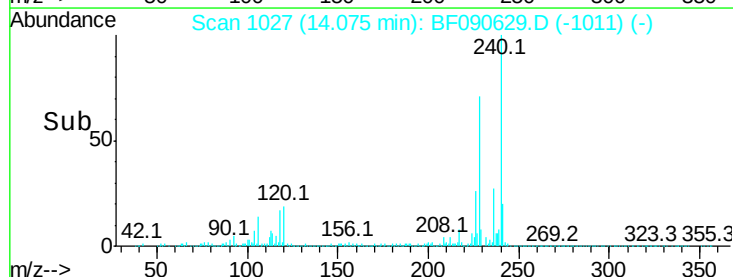
236 26.9 21.7 32.5

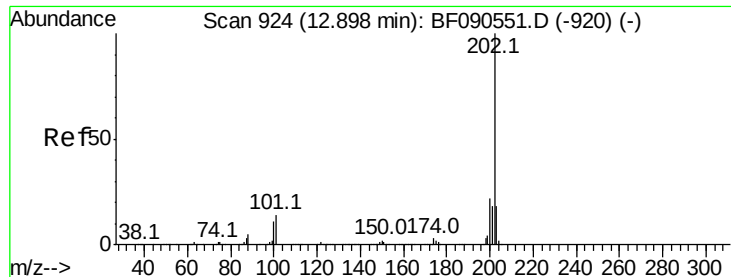


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 27.84 ng

RT: 12.87 min Scan# 922

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampled :

COMP-TP

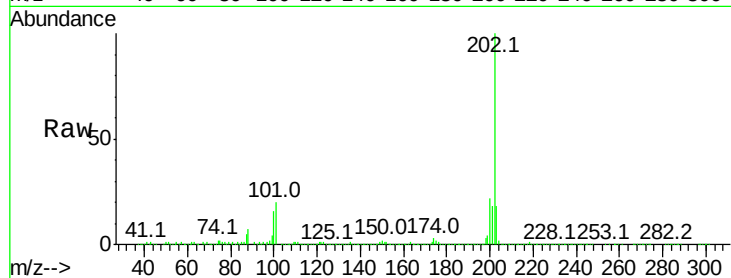
Tot Ion:202 Resp: 942740

Ion Ratio Lower Upper

202 100

200 21.9 17.8 26.6

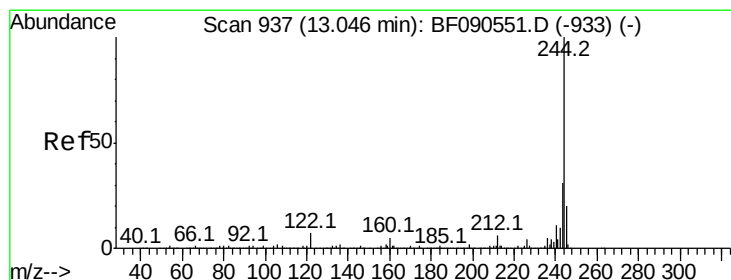
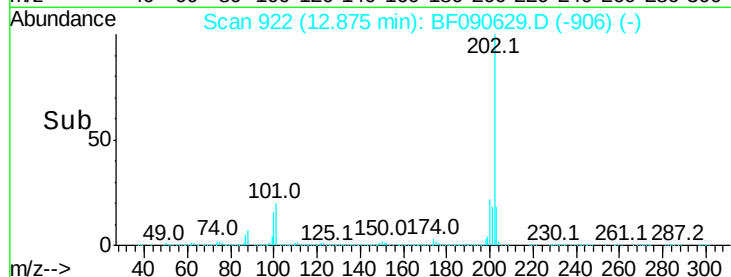
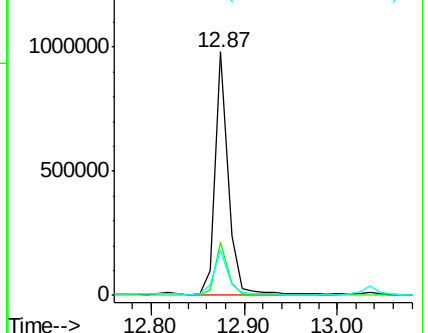
203 18.4 14.6 21.8



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: 39.15 ng

RT: 13.02 min Scan# 935

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

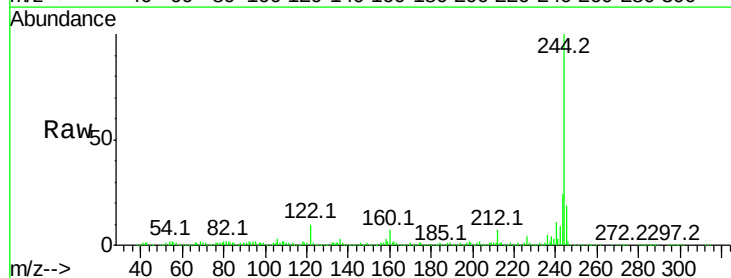
Tgt Ion:244 Resp: 859758

Ion Ratio Lower Upper

244 100

212 6.9 5.0 7.4

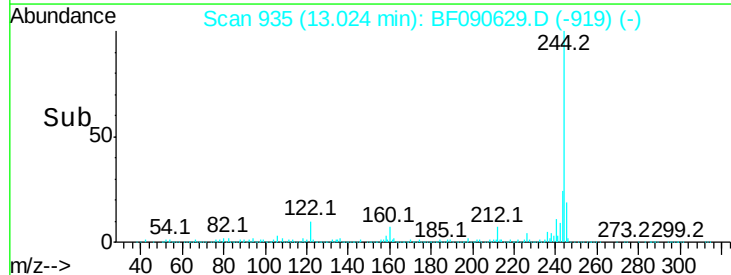
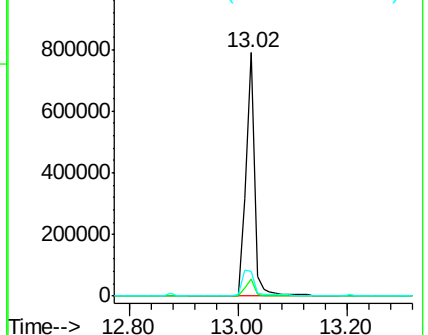
122 10.4 5.6 8.4#

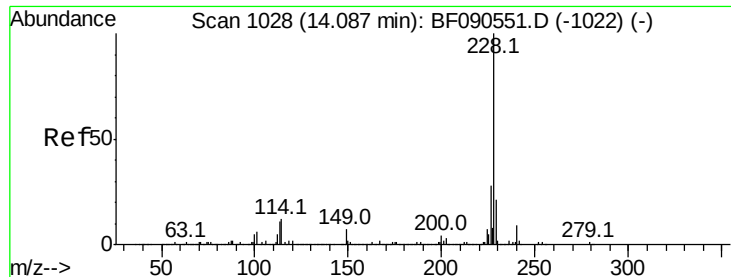


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 18.70 ng m

RT: 14.06 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

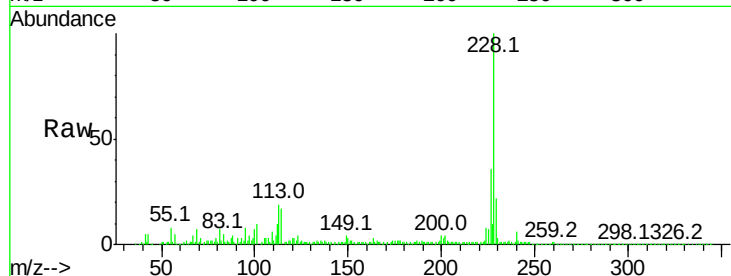
Tot Ion:228 Resp: 544209

Ion Ratio Lower Upper

228 100

226 36.0 22.8 34.2#

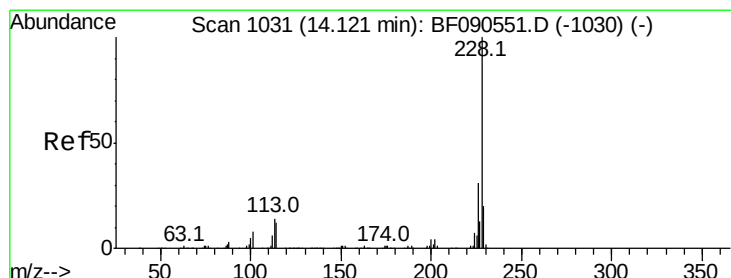
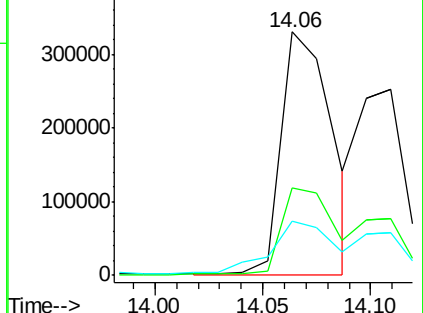
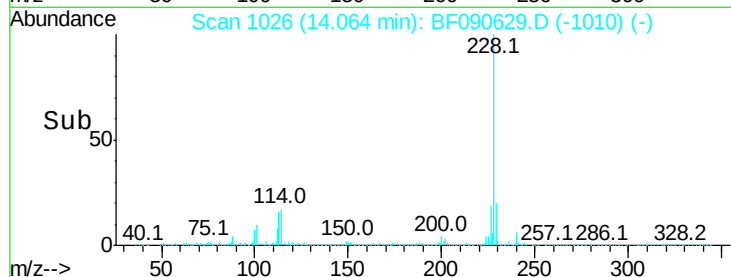
229 22.3 16.6 25.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 14.52 ng m

RT: 14.11 min Scan# 1030

Delta R.T. -0.00 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

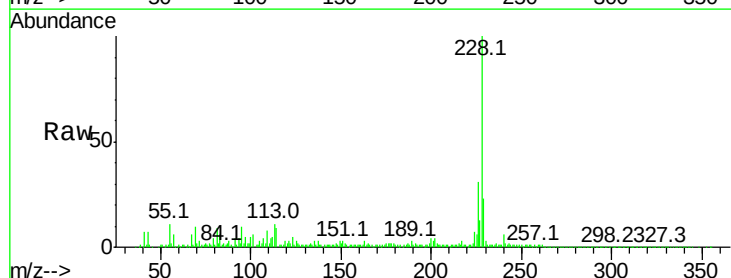
Tgt Ion:228 Resp: 407138

Ion Ratio Lower Upper

228 100

226 30.7 24.8 37.2

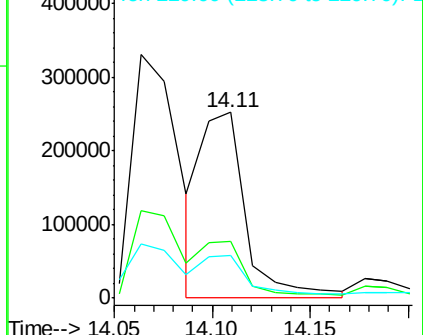
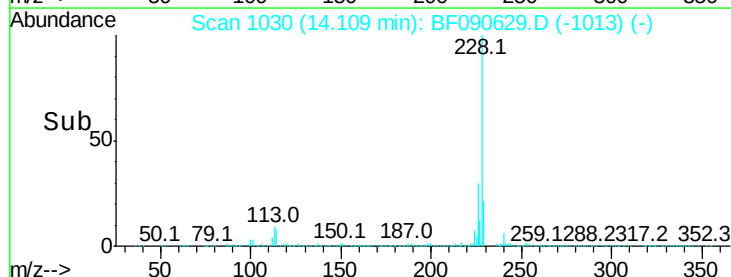
229 22.7 16.2 24.4

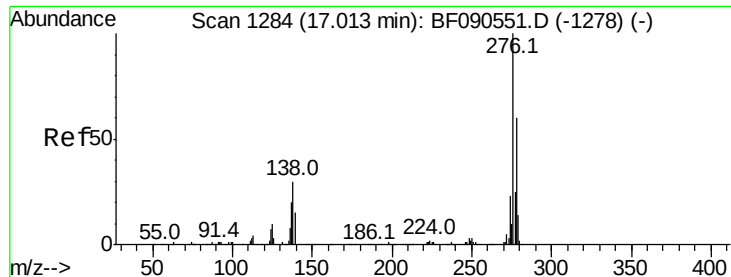


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

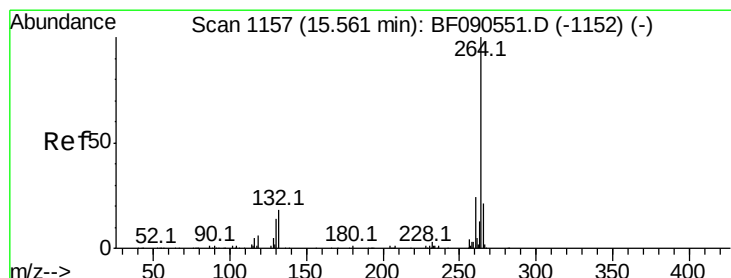
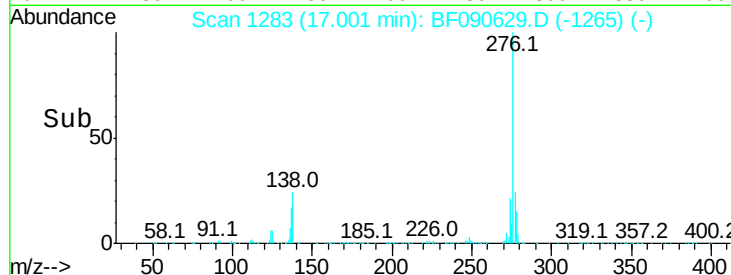
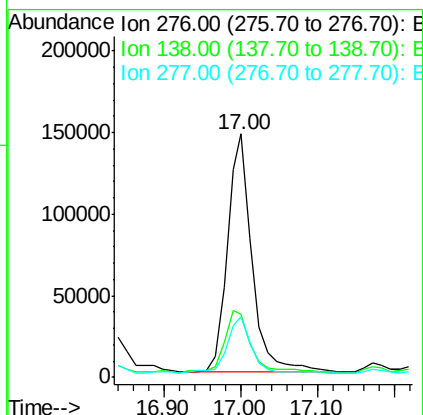
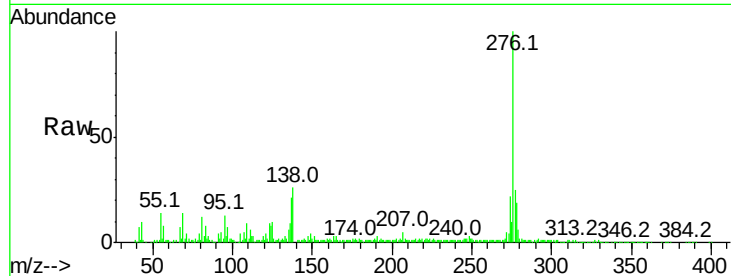




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 20.37 ng
 RT: 17.00 min Scan# 1283
 Delta R.T. 0.01 min
 Lab File: BF090629.D
 Acq: 18 Oct 2016 15:51

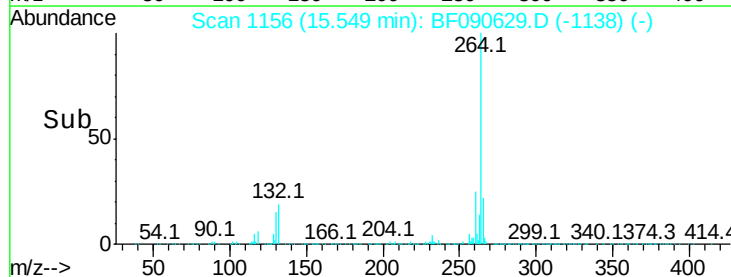
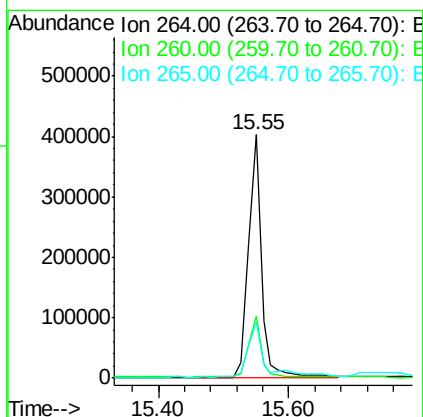
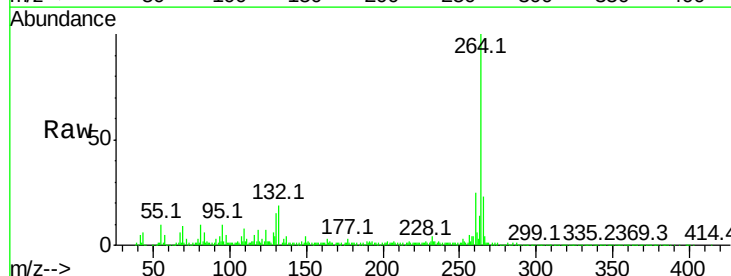
Instrument :
 BNA_F
 ClientSampleId :
 COMP-TP

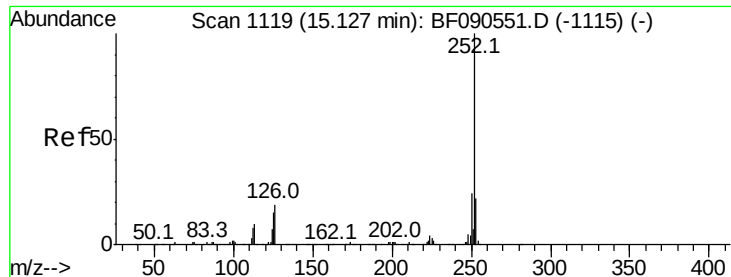
Tot Ion	Ratio	Lower	Upper
276	100		
138	28.0	25.8	38.6
277	23.5	20.1	30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.55 min Scan# 1156
 Delta R.T. 0.01 min
 Lab File: BF090629.D
 Acq: 18 Oct 2016 15:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.3	19.3	28.9
265	22.7	16.7	25.1





#87

Benzo(b)fluoranthene

Concen: 21.69 ng m

RT: 15.13 min Scan# 1119

Delta R.T. 0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampleId :

COMP-TP

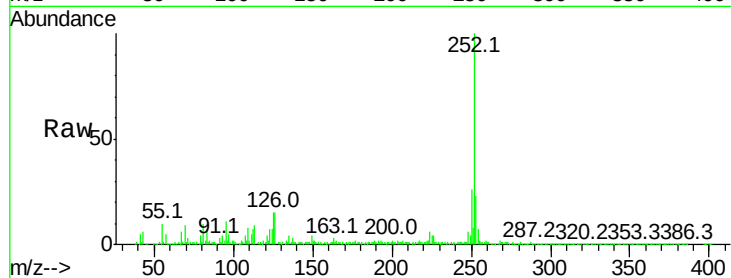
Tot Ion:252 Resp: 792864

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.8

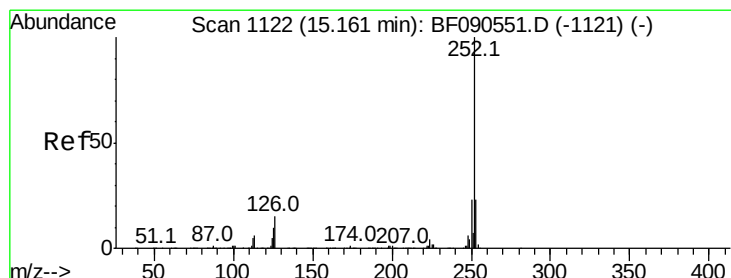
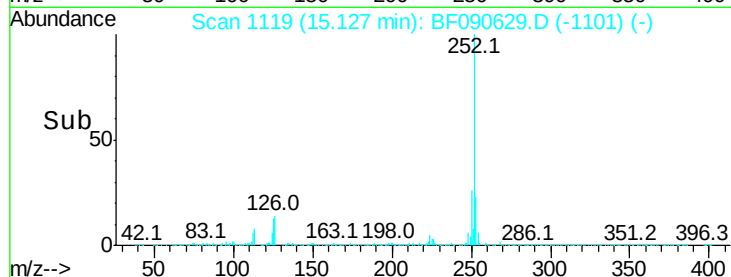
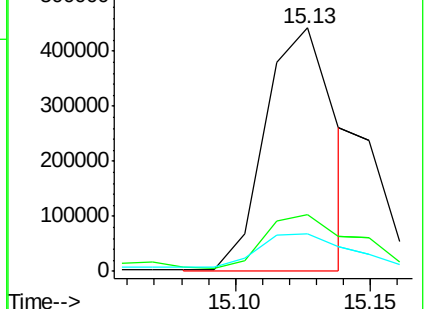
125 15.2 12.0 18.0



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: 5.77 ng m

RT: 15.14 min Scan# 1120

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

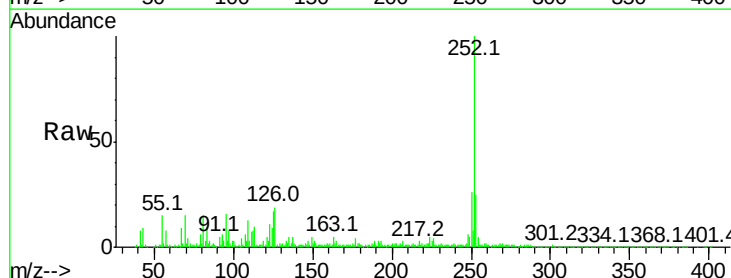
Tgt Ion:252 Resp: 227031

Ion Ratio Lower Upper

252 100

253 24.7 18.0 27.0

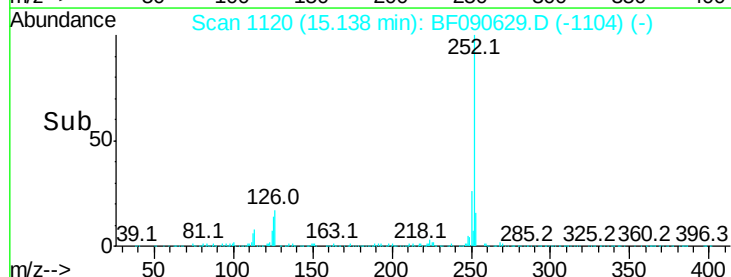
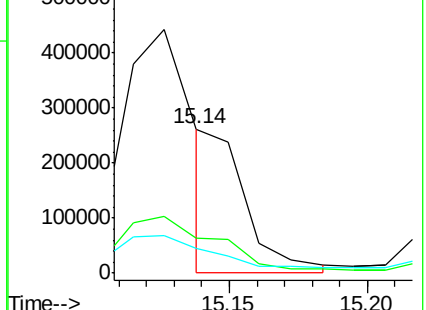
125 17.0 10.0 15.0#

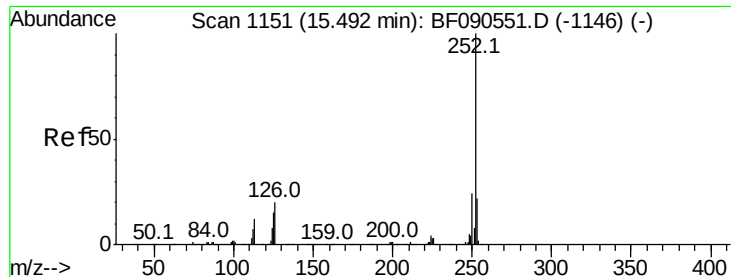


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 16.09 ng

RT: 15.48 min Scan# 1150

Delta R.T. -0.00 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

Instrument :

BNA_F

ClientSampled :

COMP-TP

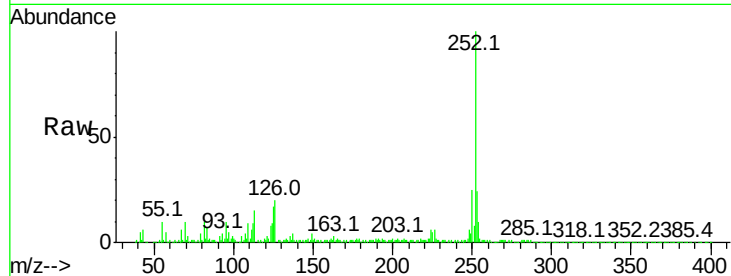
Tot Ion:252 Resp: 538415

Ion Ratio Lower Upper

252 100

253 24.5 17.9 26.9

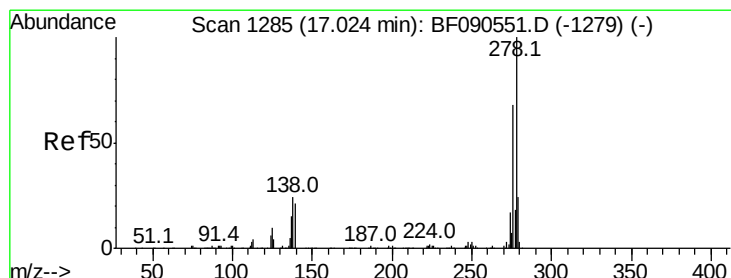
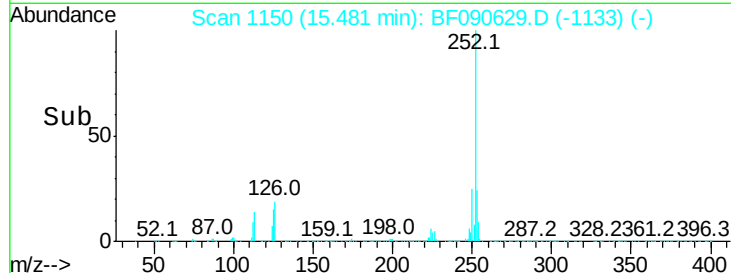
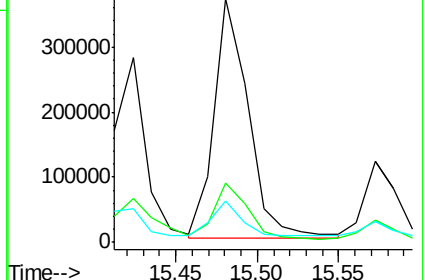
125 17.0 12.3 18.5



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: 2.24 ng

RT: 17.00 min Scan# 1283

Delta R.T. -0.01 min

Lab File: BF090629.D

Acq: 18 Oct 2016 15:51

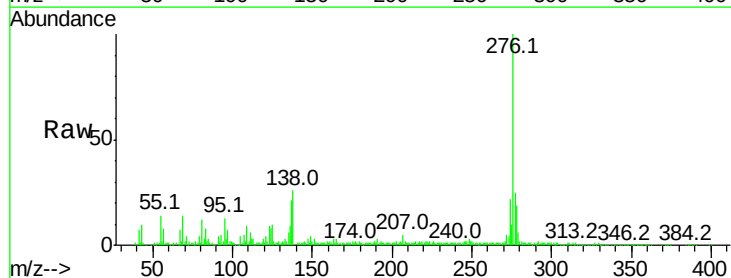
Tgt Ion:278 Resp: 57270

Ion Ratio Lower Upper

278 100

139 0.0 16.6 25.0#

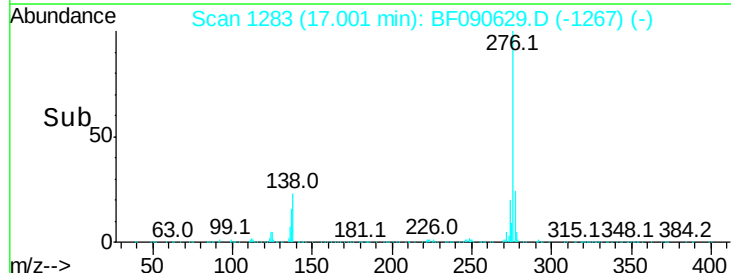
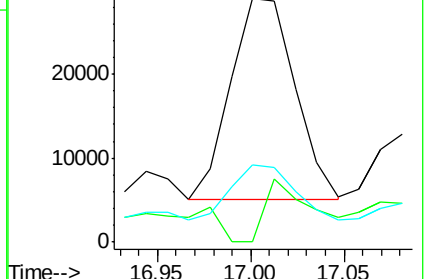
279 31.6 19.1 28.7#

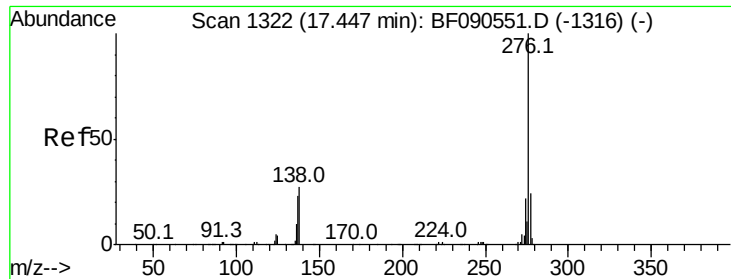


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

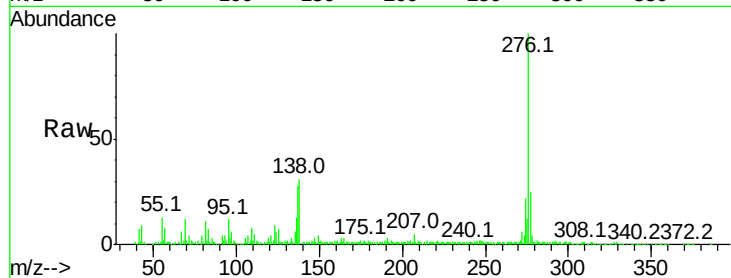




#91
 Benzo(a,h,i)perylene
 Concen: 12.76 ng
 RT: 17.44 min Scan# 1321
 Delta R.T. 0.01 min
 Lab File: BF090629.D
 Acq: 18 Oct 2016 15:51

Instrument :
 BNA_F
 ClientSampleId :
 COMP-TP

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.9	18.8	28.2
138	31.0	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

