

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071716\
 Data File : BF089072.D
 Acq On : 17 Jul 2016 12:12
 Operator : UM/SJ
 Sample : H4045-15
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 18 03:13:23 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	51068	20.00	ng	-0.06
21) Naphthalene-d8	7.94	136	227765	20.00	ng	-0.06
38) Acenaphthene-d10	9.69	164	107121	20.00	ng	-0.06
63) Phenanthrene-d10	11.16	188	193785	20.00	ng	-0.06
75) Chrysene-d12	13.78	240	127882	20.00	ng	-0.07
86) Perylene-d12	15.15	264	106081	20.00	ng	-0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.26	112	441380	129.53	ng	-0.03
7) Phenol-d6	6.32	99	647377	147.03	ng	-0.03
23) Nitrobenzene-d5	7.22	82	334559	76.98	ng	-0.06
41) 2,4,6-Tribromophenol	10.48	330	112921	113.52	ng	-0.06
44) 2-Fluorobiphenyl	9.02	172	532788	78.56	ng	-0.06
78) Terphenyl-d14	12.75	244	451235	78.59	ng	-0.05

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.22	70	49441	16.72	ng	# 75
25) Isophorone	7.22	82	262208	32.57	ng	# 65
49) Dimethylphthalate	9.42	163	140904	18.46	ng	100
55) 4-Nitrophenol	9.92	139	5710	3.49	ng	# 13
56) 2,4-Dinitrotoluene	9.69	165	13836	6.26	ng	# 39
66) 4-Bromophenyl-phenylether	10.48	248	9092	4.66	ng	# 1
70) Phenanthrene	11.19	178	32043	3.02	ng	100
71) Anthracene	11.19	178	32043	3.04	ng	100
74) Fluoranthene	12.37	202	65768	6.12	ng	97
77) Pyrene	12.59	202	64707	5.97	ng	99
80) Benzo(a)anthracene	13.78	228	32849	3.99	ng	92
82) Chrysene	13.78	228	32849	4.03	ng	97
83) Bis(2-ethylhexyl)phthalate	13.71	149	30293	5.49	ng	99
84) Di-n-octyl phthalate	14.40	149	248983	26.54	ng	# 100
85) Indeno(1,2,3-cd)pyrene	16.41	276	13128	2.09	ng	# 100
87) Benzo(b)fluoranthene	14.78	252	35865	5.39	ng	# 88
88) Benzo(k)fluoranthene	14.78	252	36681	6.33	ng	# 93
89) Benzo(a)pyrene	15.09	252	22398	3.98	ng	# 91
91) Benzo(a,h,i)perylene	16.78	276	12309	2.53	ng	94

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

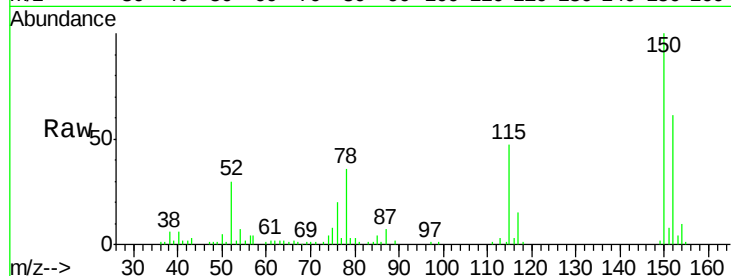


#1

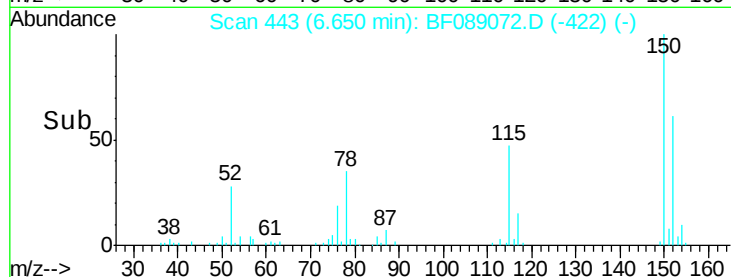
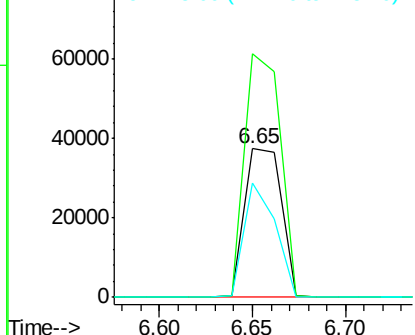
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.65 min Scan# 443
Delta R.T. -0.06 min
Lab File: BF089072.D
Acq: 17 Jul 2016 12:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 51068
Ion Ratio Lower Upper
152 100
150 163.7 123.8 185.6
115 77.1 39.6 59.4#



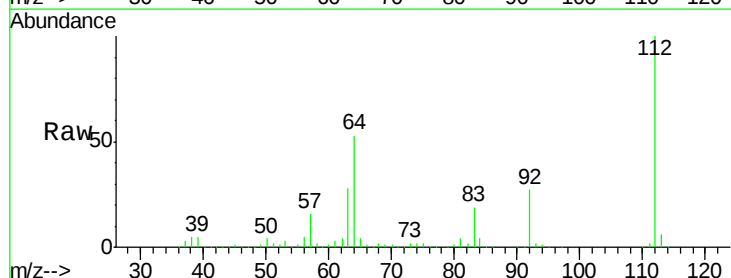
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



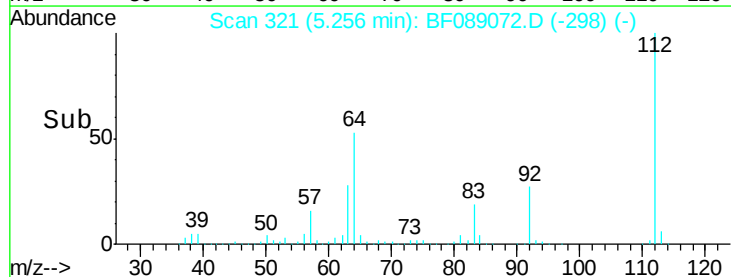
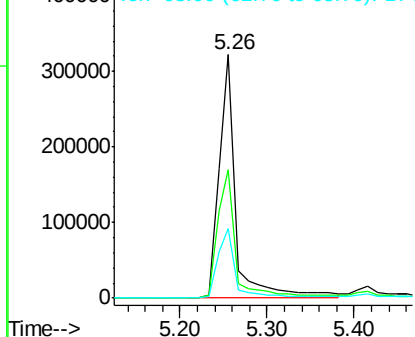
#5

2-Fluorophenol
Concen: 129.53 ng
RT: 5.26 min Scan# 321
Delta R.T. -0.03 min
Lab File: BF089072.D
Acq: 17 Jul 2016 12:12

Tgt Ion:112 Resp: 441380
Ion Ratio Lower Upper
112 100
64 52.7 42.2 63.2
63 28.4 21.8 32.8



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: 147.03 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

Instrument :

BNA_F

ClientSampleId :

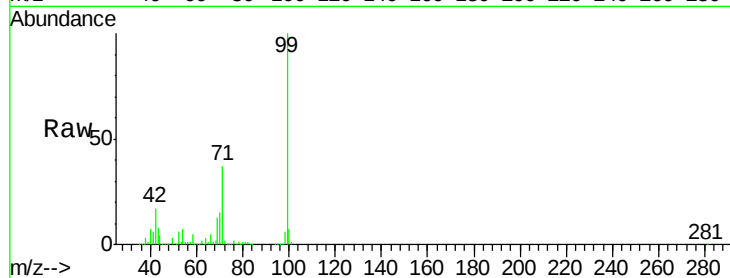
Tot Ion: 99 Resp: 647377

Ion Ratio Lower Upper

99 100

42 17.2 12.2 18.2

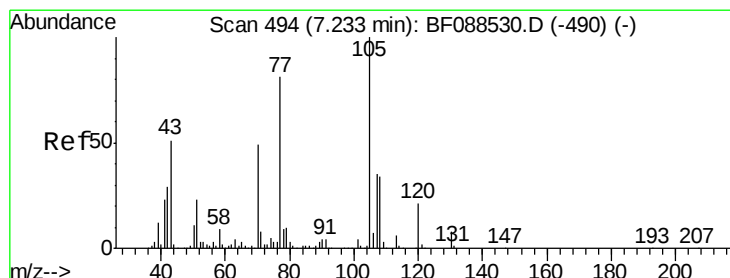
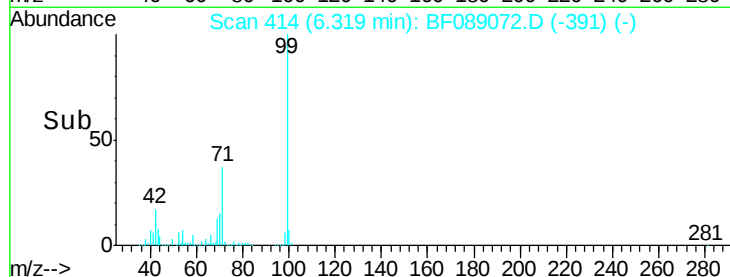
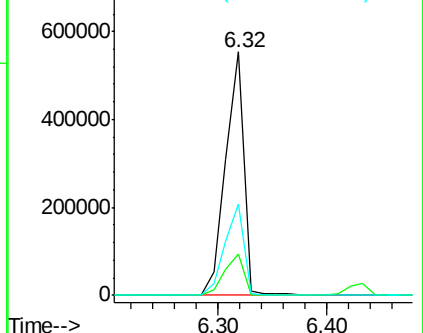
71 37.4 23.4 35.0#



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



#19

n-Nitroso-di-n-propylamine

Concen: 16.72 ng

RT: 7.22 min Scan# 493

Delta R.T. 0.08 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

Tgt Ion: 70 Resp: 49441

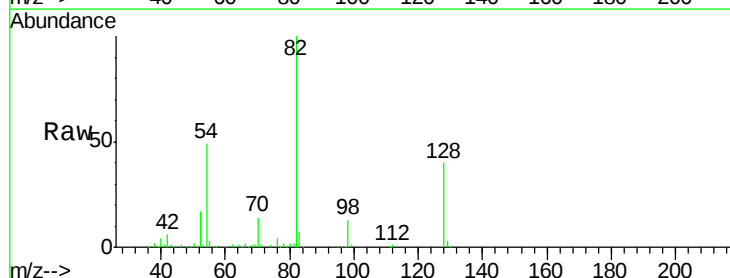
Ion Ratio Lower Upper

70 100

42 45.7 49.6 74.4#

101 0.0 7.1 10.7#

130 2.0 15.4 23.2#

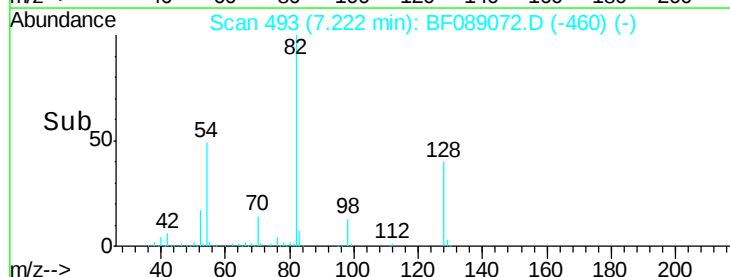
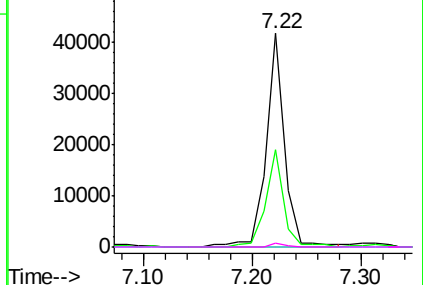


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.94 min Scan# 556

Delta R.T. -0.06 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 227765

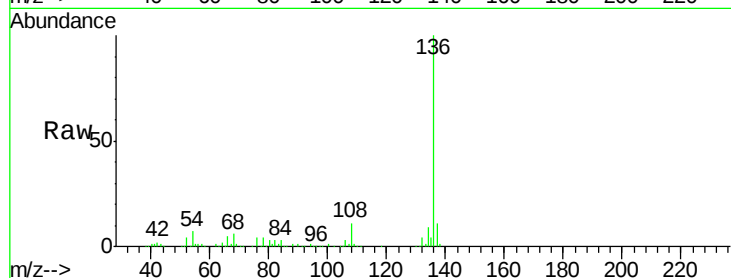
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 7.0 6.6 10.0

68 5.6 5.1 7.7

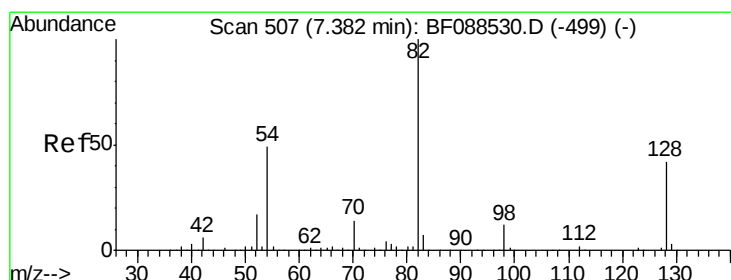
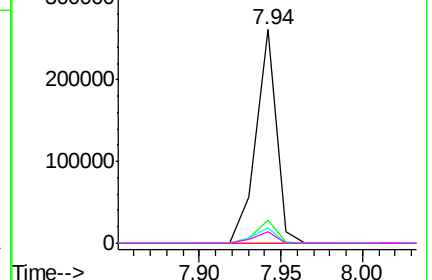
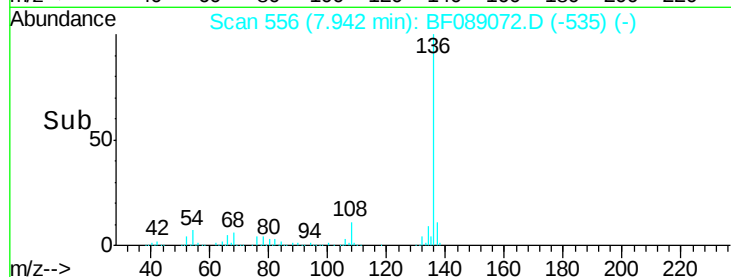


Abundance Ion 136.00 (135.70 to 136.70): E

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: 76.98 ng

RT: 7.22 min Scan# 493

Delta R.T. -0.06 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

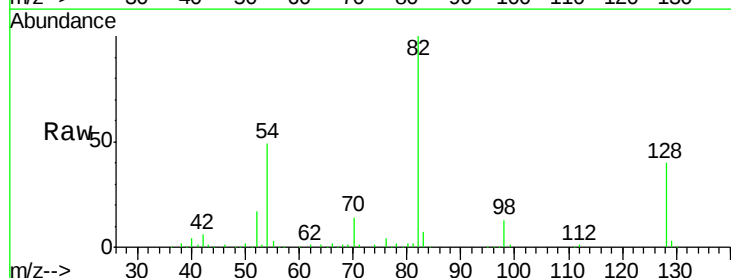
Tgt Ion: 82 Resp: 334559

Ion Ratio Lower Upper

82 100

128 39.9 35.9 53.9

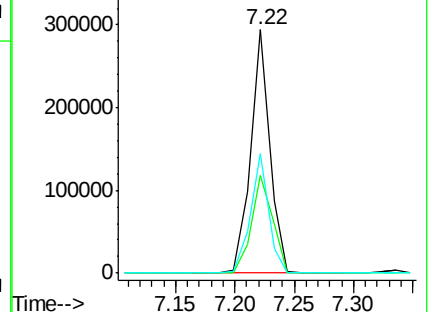
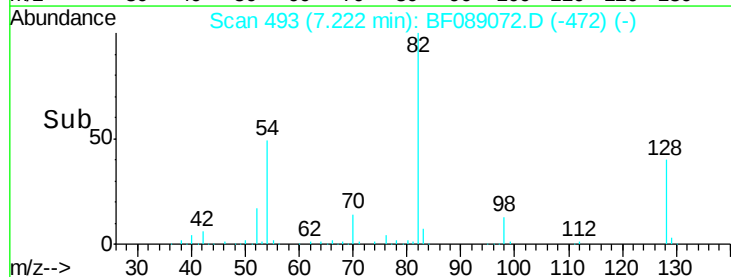
54 49.0 40.9 61.3

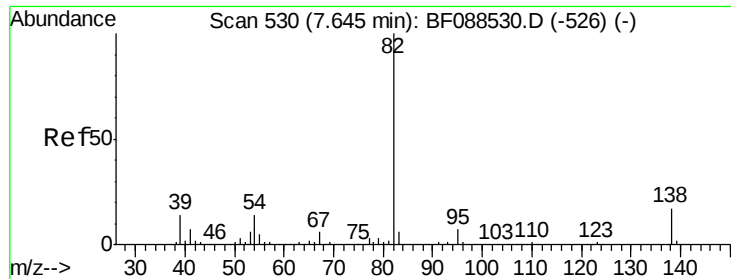


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 32.57 ng

RT: 7.22 min Scan# 493

Delta R.T. -0.32 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

Instrument :

BNA_F

ClientSampleId :

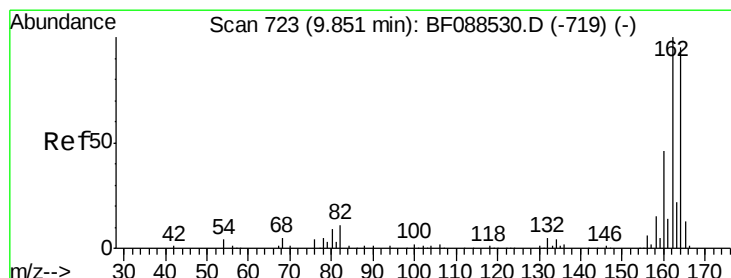
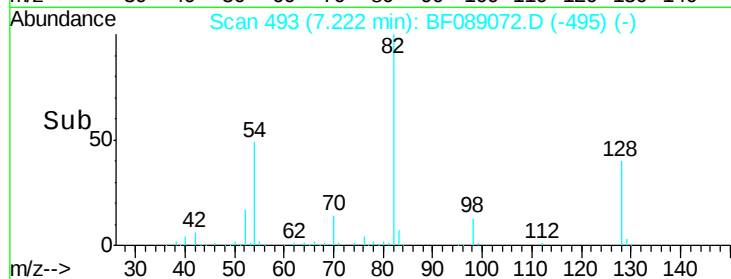
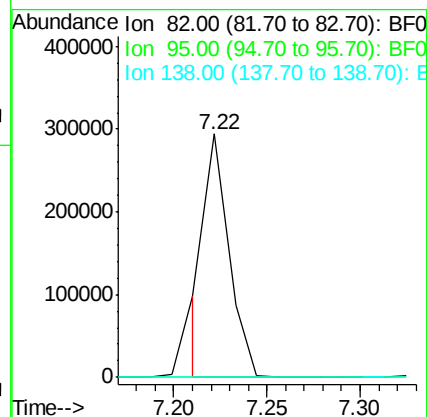
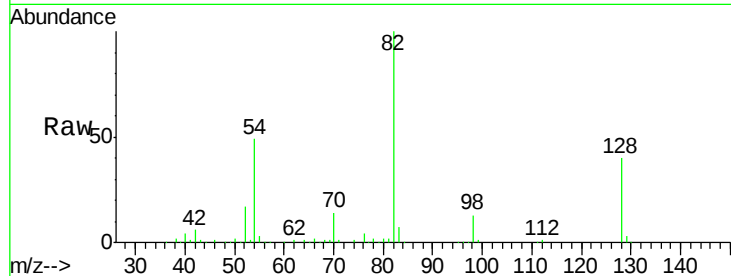
Tot Ion: 82 Resp: 262208

Ion Ratio Lower Upper

82 100

95 0.2 5.4 8.2#

138 0.0 14.6 21.8#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.69 min Scan# 709

Delta R.T. -0.06 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

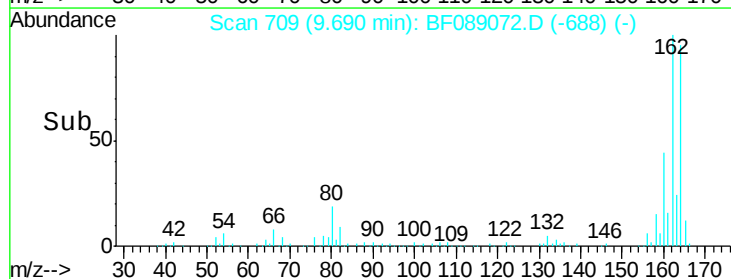
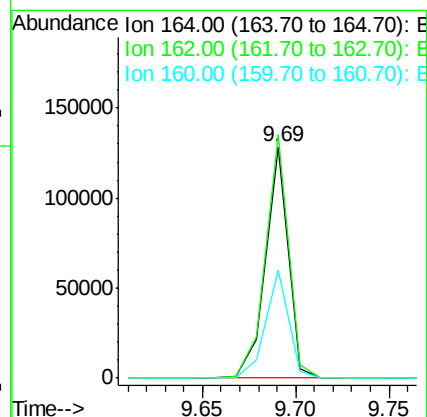
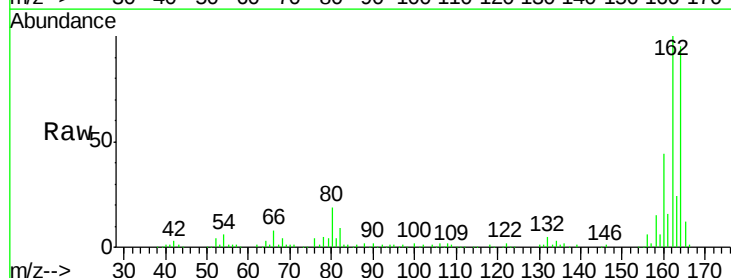
Tgt Ion: 164 Resp: 107121

Ion Ratio Lower Upper

164 100

162 105.4 85.4 128.2

160 46.5 39.5 59.3

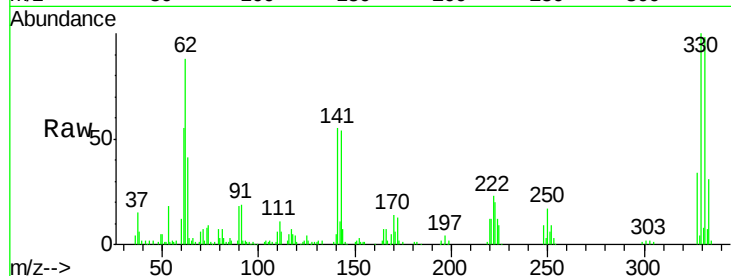




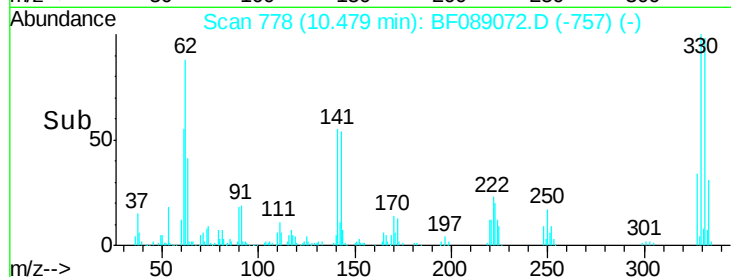
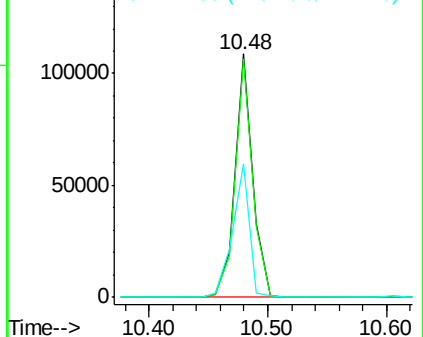
#41
 2,4,6-Tribromophenol
 Concen: 113.52 ng
 RT: 10.48 min Scan# 778
 Delta R.T. -0.06 min
 Lab File: BF089072.D
 Acq: 17 Jul 2016 12:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.7	0.0	0.0#
141	53.0	0.0	0.0#

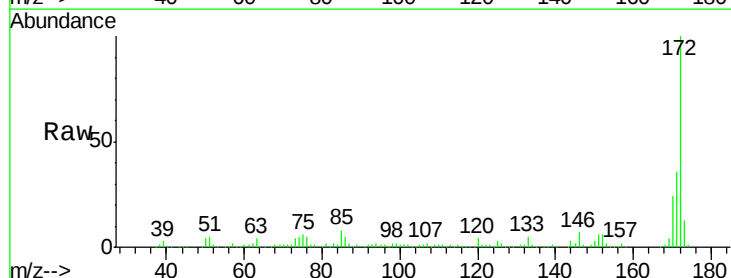


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

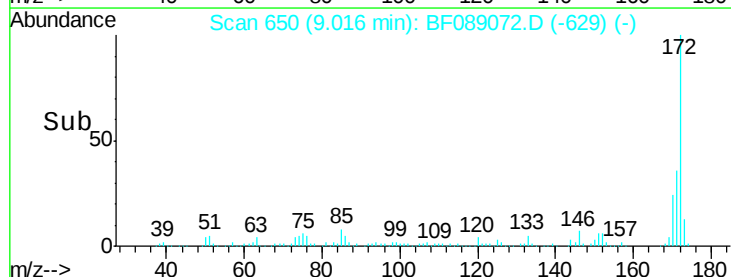
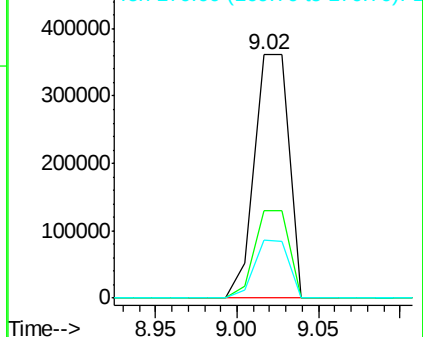


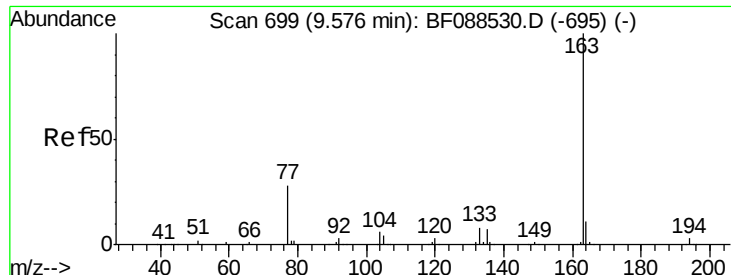
#44
 2-Fluorobiphenyl
 Concen: 78.56 ng
 RT: 9.02 min Scan# 650
 Delta R.T. -0.06 min
 Lab File: BF089072.D
 Acq: 17 Jul 2016 12:12

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	23.7	19.2	28.8



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





#49

Dimethylphthalate

Concen: 18.46 ng

RT: 9.42 min Scan# 685

Delta R.T. -0.07 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

Instrument :

BNA_F

ClientSampleId :

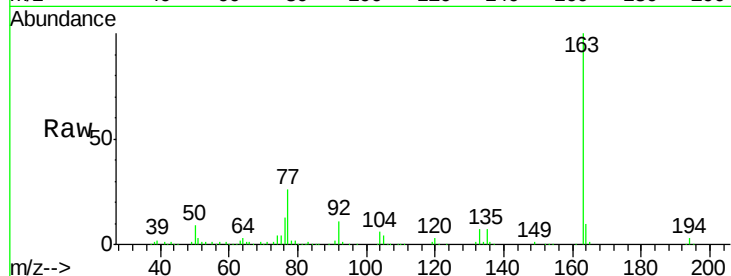
Tot Ion:163 Resp: 140904

Ion Ratio Lower Upper

163 100

194 3.0 2.8 4.2

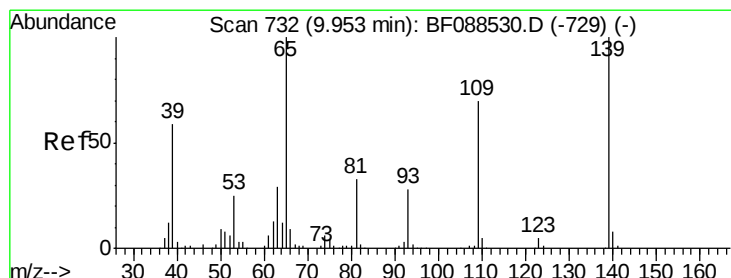
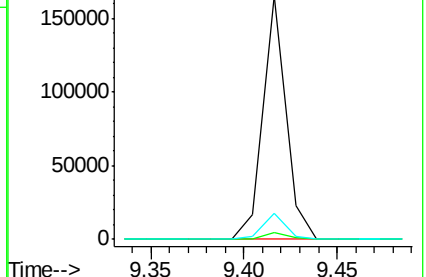
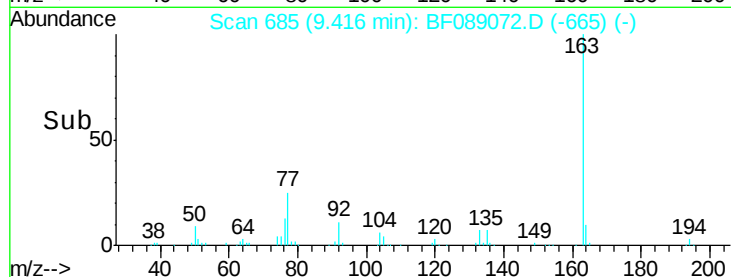
164 10.5 8.3 12.5



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: 3.49 ng

RT: 9.92 min Scan# 729

Delta R.T. 0.05 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

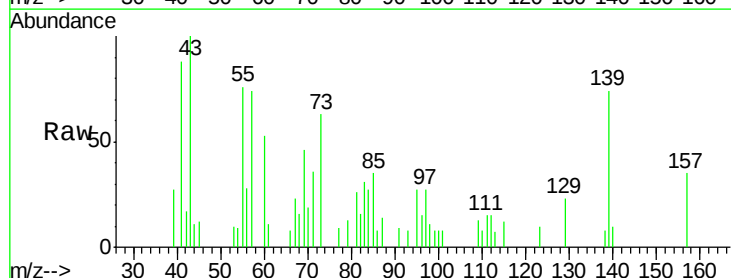
Tgt Ion:139 Resp: 5710

Ion Ratio Lower Upper

139 100

109 17.6 48.9 88.9#

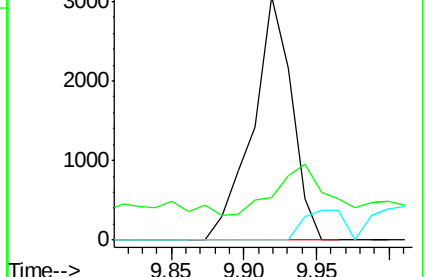
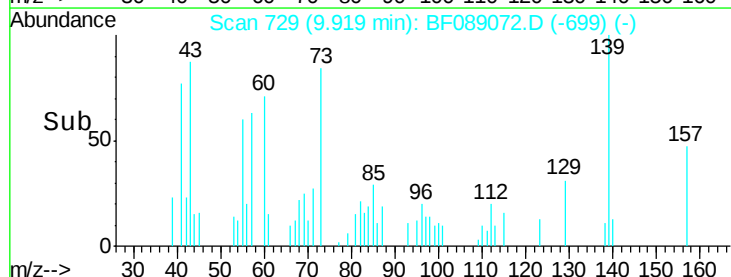
65 0.0 84.9 124.9#

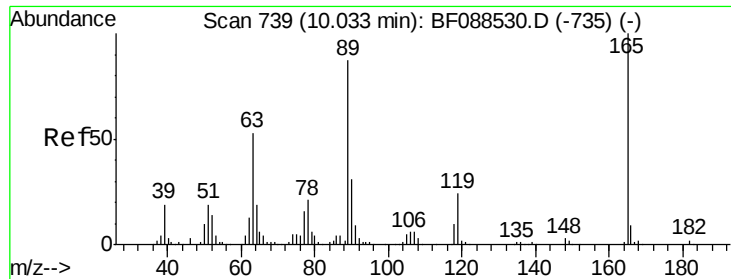


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

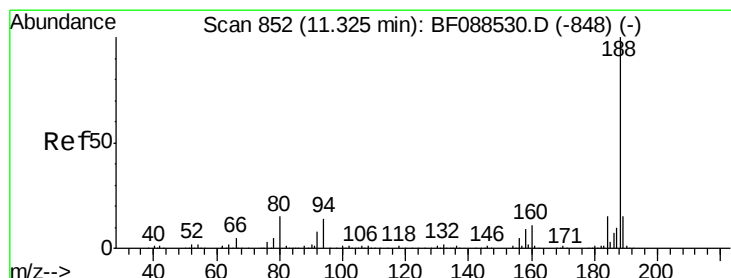
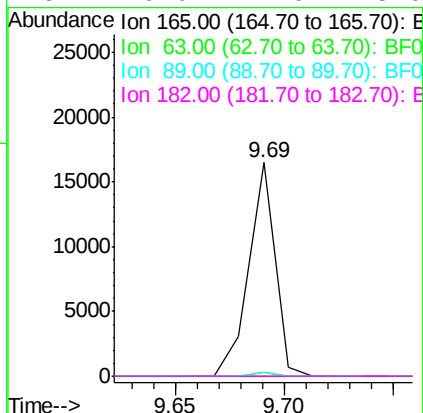
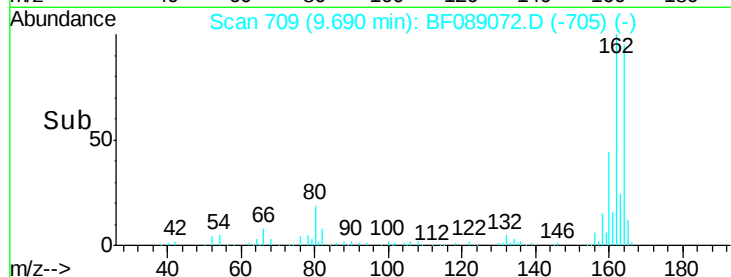
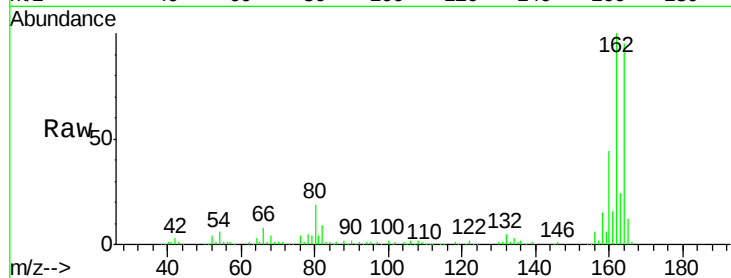




#56
2,4-Dinitrotoluene
Concen: 6.26 ng
RT: 9.69 min Scan# 709
Delta R.T. -0.25 min
Lab File: BF089072.D
Acq: 17 Jul 2016 12:12

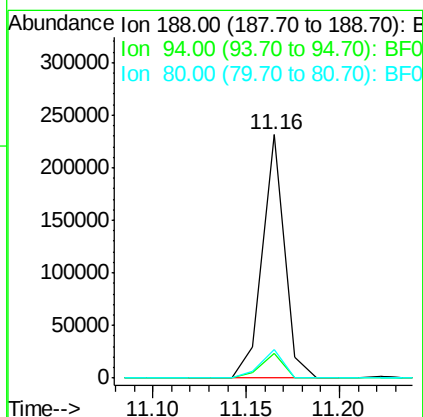
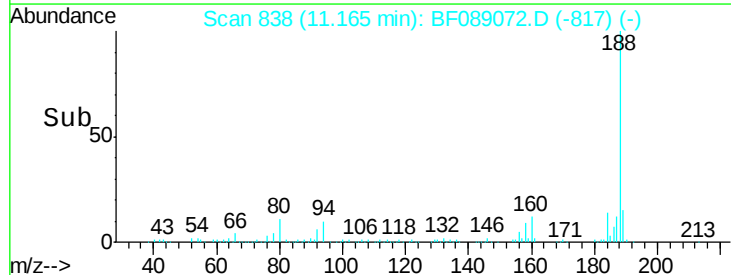
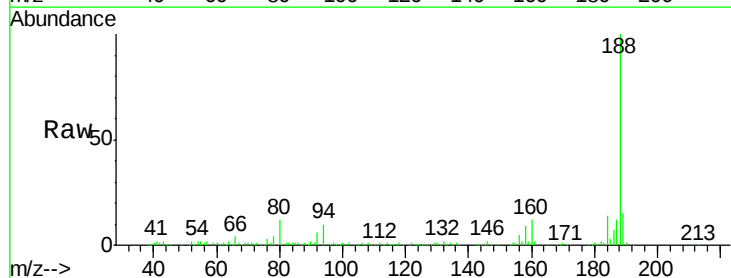
Instrument :
BNA_F
ClientSampled :

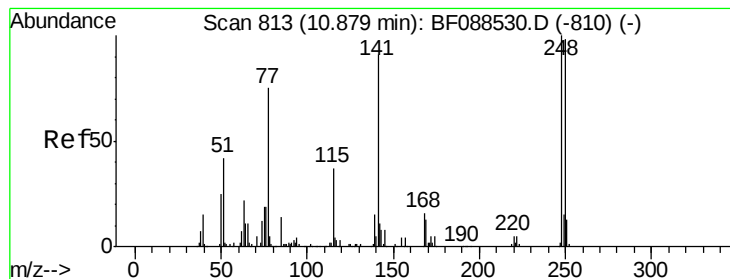
Tot Ion:165	Resp:	13836
Ion Ratio	Lower	Upper
165	100	
63	2.1	22.0 33.0#
89	2.0	41.1 61.7#
182	0.0	2.0 3.0#



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.16 min Scan# 838
Delta R.T. -0.06 min
Lab File: BF089072.D
Acq: 17 Jul 2016 12:12

Tgt Ion:188	Resp:	193785
Ion Ratio	Lower	Upper
188	100	
94	10.2	9.0 13.6
80	11.5	10.0 15.0

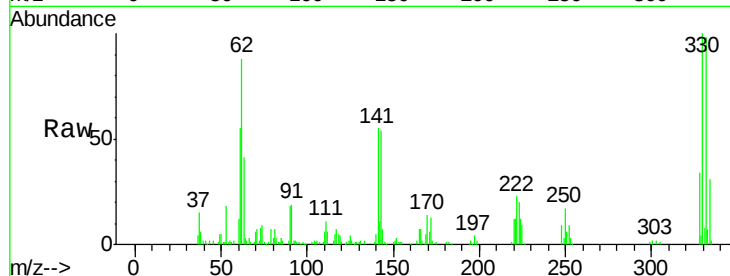




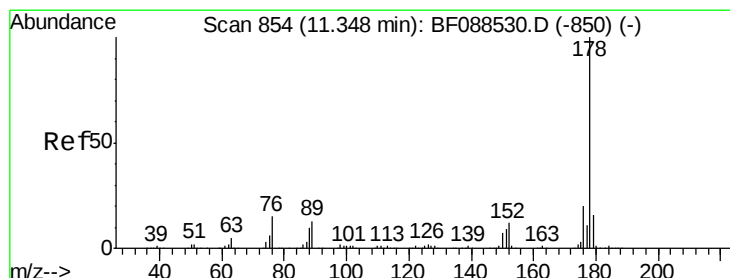
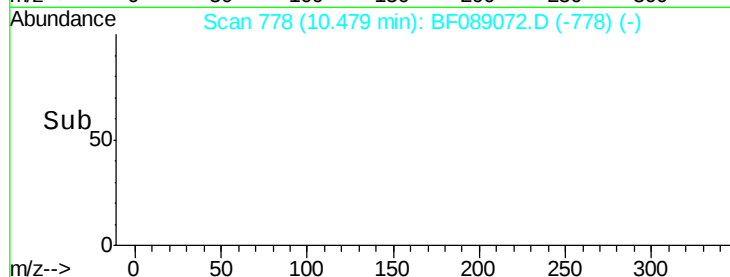
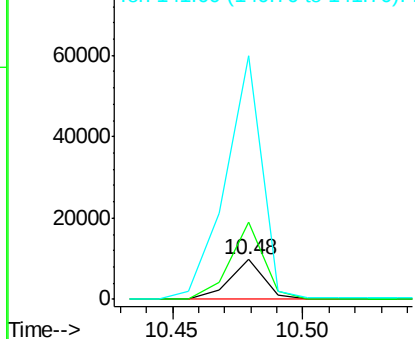
#66
4-Bromophenyl-phenylether
Concen: 4.66 ng
RT: 10.48 min Scan# 778
Delta R.T. -0.30 min
Lab File: BF089072.D
Acq: 17 Jul 2016 12:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:248 Resp: 9092
Ion Ratio Lower Upper
248 100
250 195.1 77.1 115.7#
141 616.7 50.6 76.0#

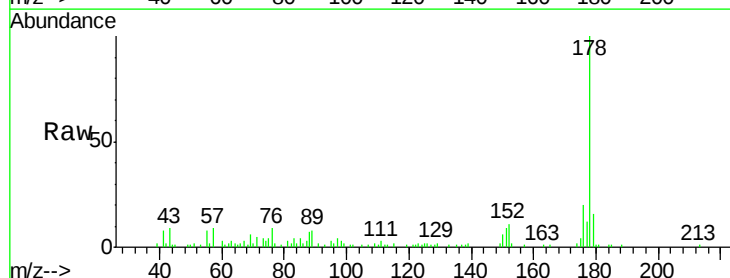


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

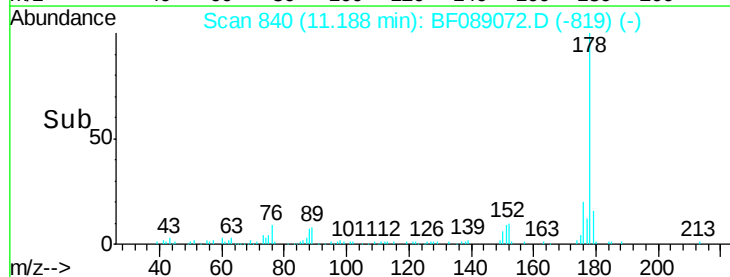
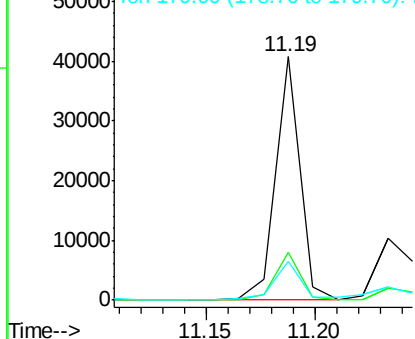


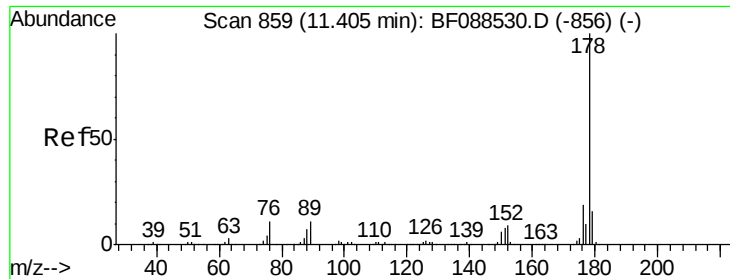
#70
Phenanthrene
Concen: 3.02 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.06 min
Lab File: BF089072.D
Acq: 17 Jul 2016 12:12

Tgt Ion:178 Resp: 32043
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.6
179 15.9 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

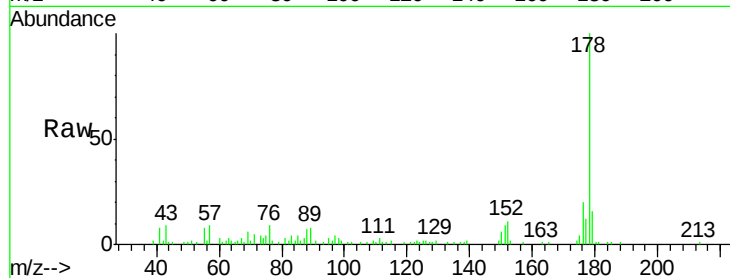




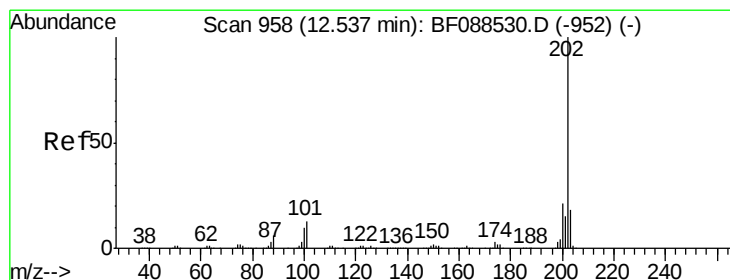
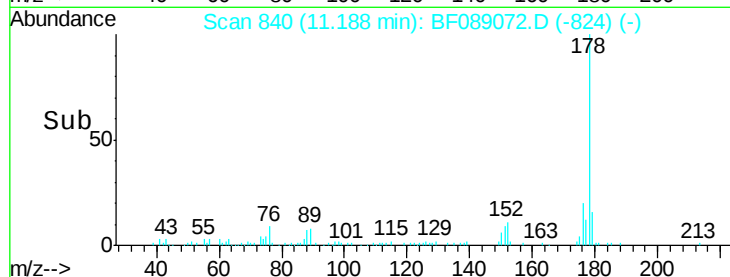
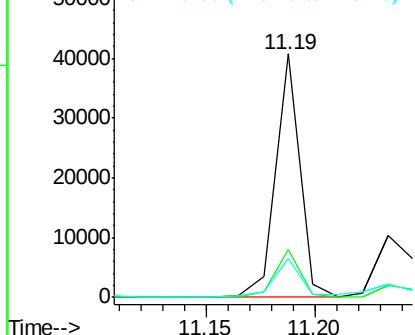
#71
 Anthracene
 Concen: 3.04 ng
 RT: 11.19 min Scan# 840
 Delta R.T. -0.11 min
 Lab File: BF089072.D
 Acq: 17 Jul 2016 12:12

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:178 Resp: 32043
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.6 23.4
 179 15.9 12.8 19.2

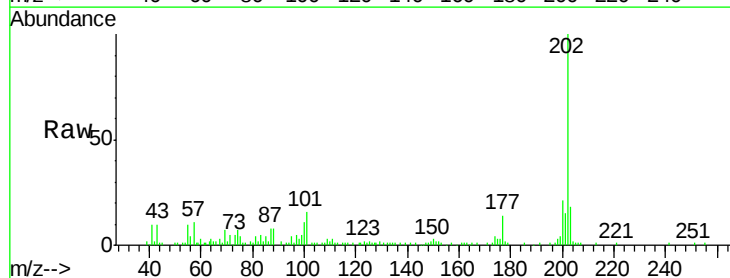


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

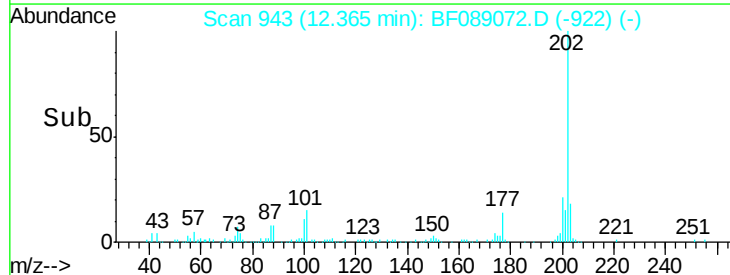
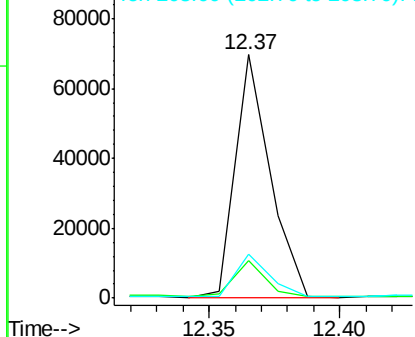


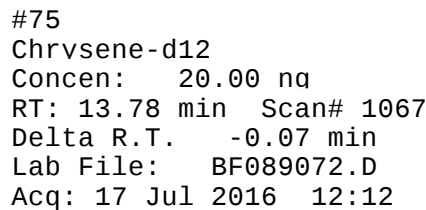
#74
 Fluoranthene
 Concen: 6.12 ng
 RT: 12.37 min Scan# 943
 Delta R.T. -0.06 min
 Lab File: BF089072.D
 Acq: 17 Jul 2016 12:12

Tgt Ion:202 Resp: 65768
 Ion Ratio Lower Upper
 202 100
 101 15.6 0.0 33.1
 203 18.1 0.0 38.1



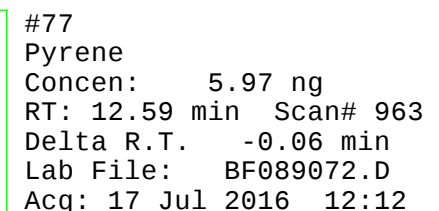
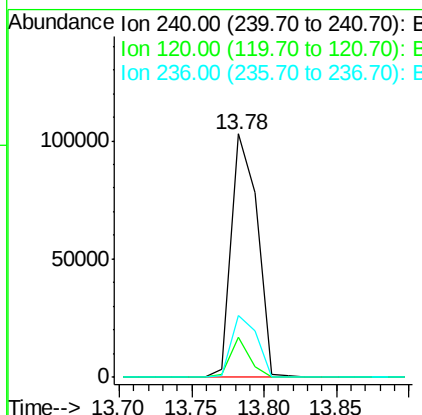
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E



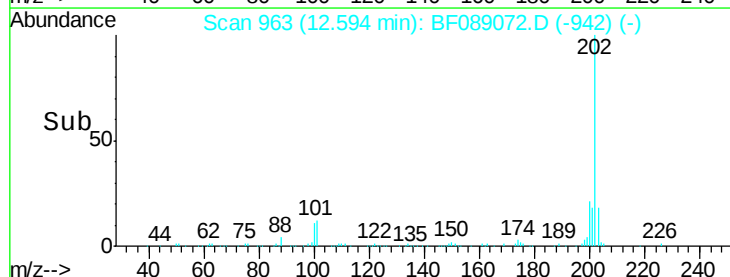
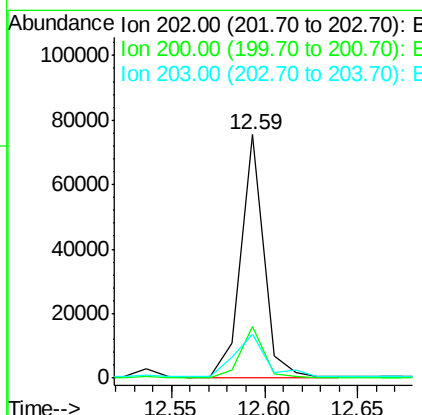


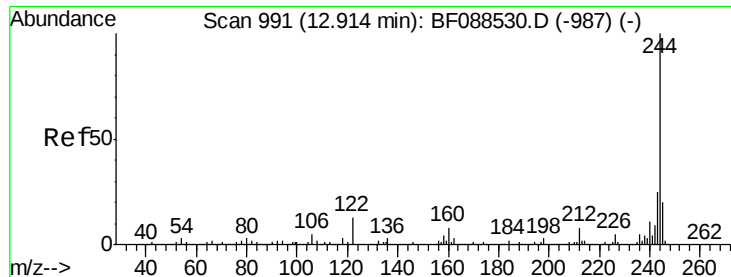
Instrument :
BNA_F
ClientSampleId :

Tot	Ion:240	Resp:	127882
Ion	Ratio	Lower	Upper
240	100		
120	16.7	6.8	10.2#
236	25.2	20.2	30.2



Tgt	Ion:202	Resp:	64707
Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2
203	17.8	14.5	21.7





#78

Terphenyl-d14

Concen: 78.59 ng

RT: 12.75 min Scan# 977

Delta R.T. -0.05 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

Instrument :

BNA_F

ClientSampleId :

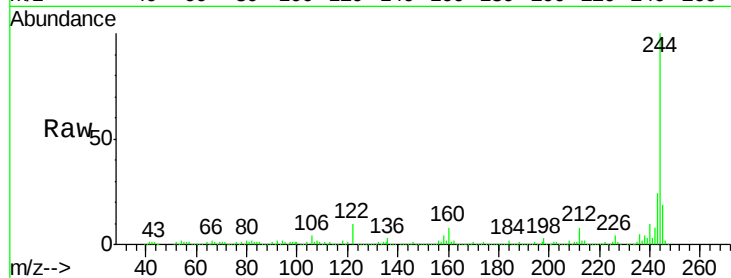
Tot Ion:244 Resp: 451235

Ion Ratio Lower Upper

244 100

212 8.0 6.0 9.0

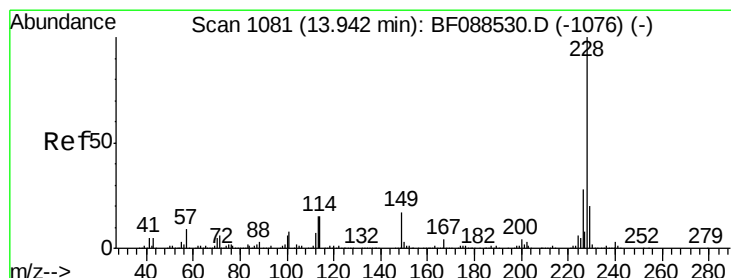
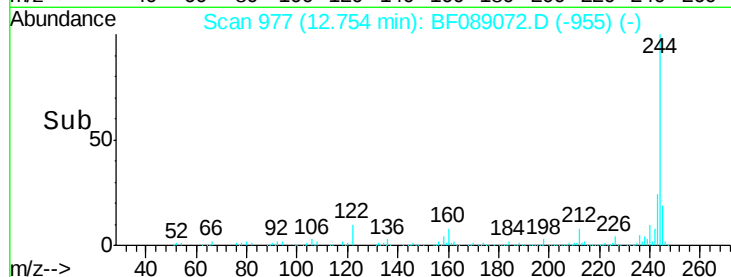
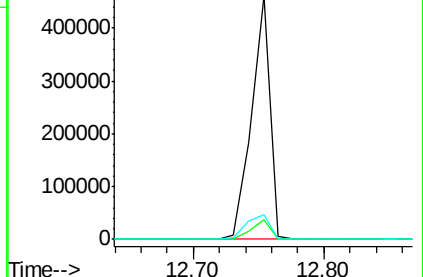
122 10.2 11.2 16.8#



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: 3.99 ng

RT: 13.78 min Scan# 1067

Delta R.T. -0.06 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

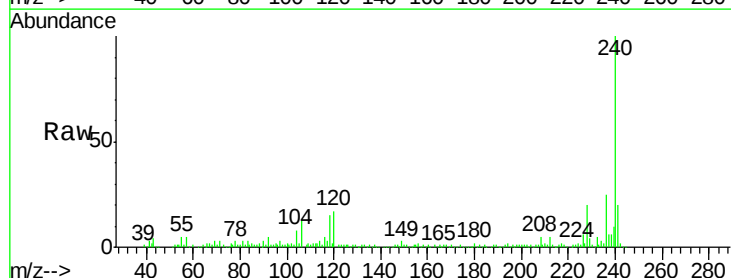
Tgt Ion:228 Resp: 32849

Ion Ratio Lower Upper

228 100

226 33.0 22.3 33.5

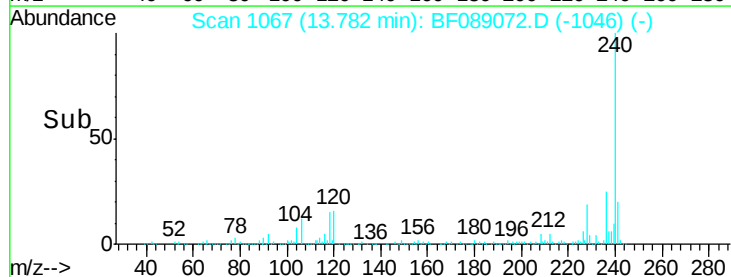
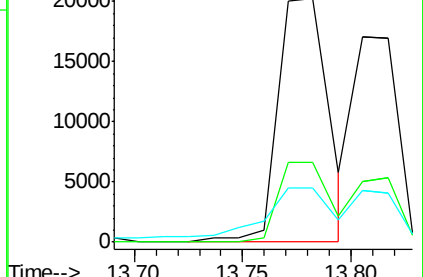
229 22.2 16.0 24.0

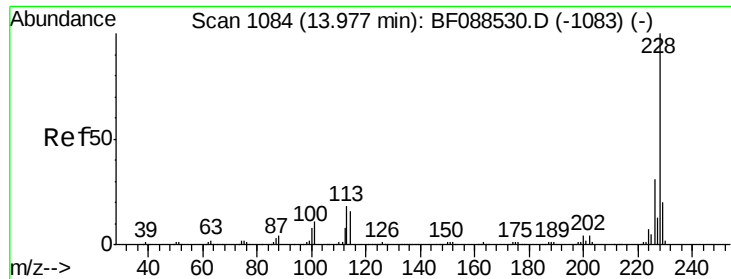


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.03 ng

RT: 13.78 min Scan# 1067

Delta R.T. -0.09 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

Instrument :

BNA_F

ClientSampled :

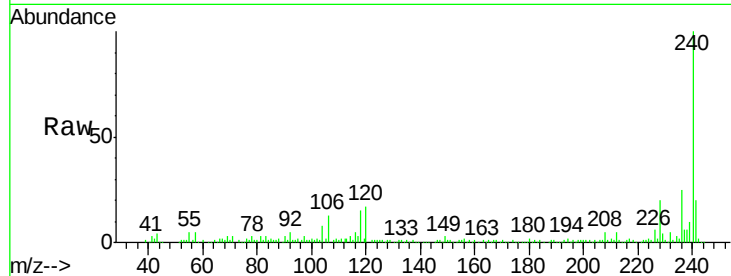
Tot Ion:228 Resp: 32849

Ion Ratio Lower Upper

228 100

226 33.0 25.4 38.2

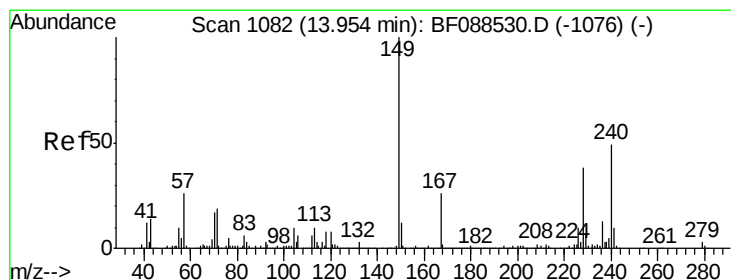
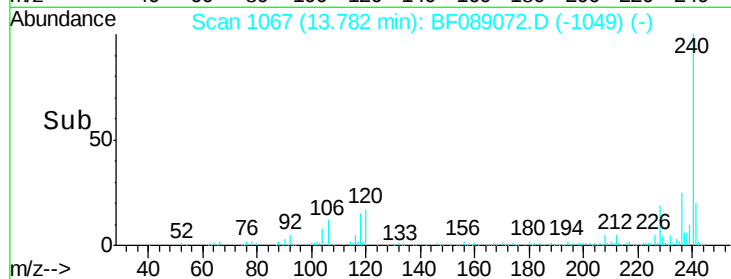
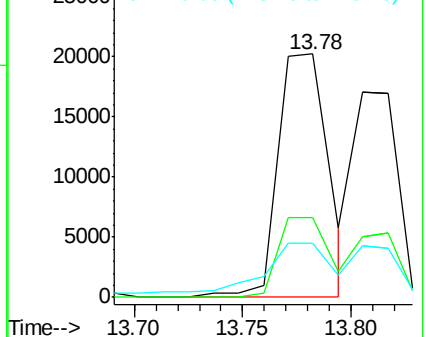
229 22.2 16.3 24.5



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: 5.49 ng

RT: 13.71 min Scan# 1061

Delta R.T. -0.13 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

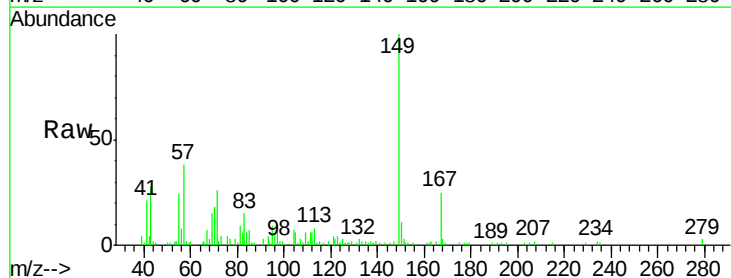
Tgt Ion:149 Resp: 30293

Ion Ratio Lower Upper

149 100

167 25.2 20.5 30.7

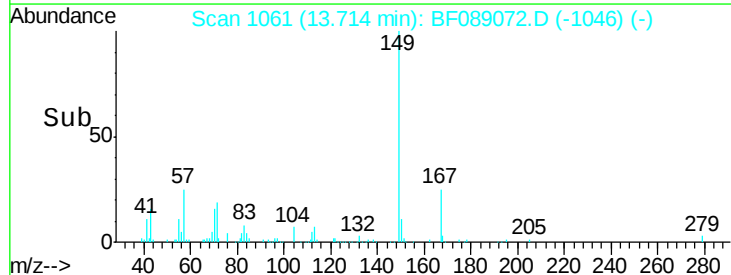
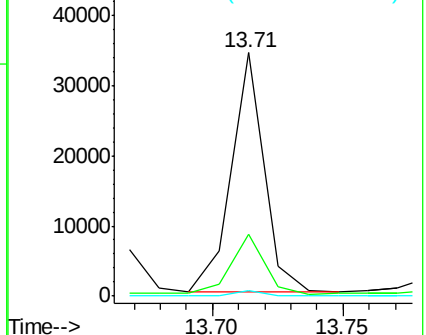
279 2.5 2.0 3.0

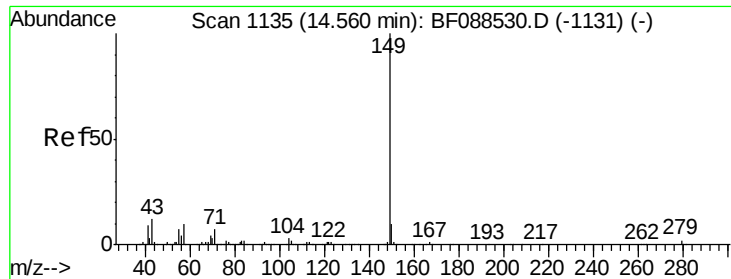


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#84

Di-n-octyl phthalate

Concen: 26.54 ng

RT: 14.40 min Scan# 1121

Delta R.T. -0.06 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

Instrument :

BNA_F

ClientSampled :

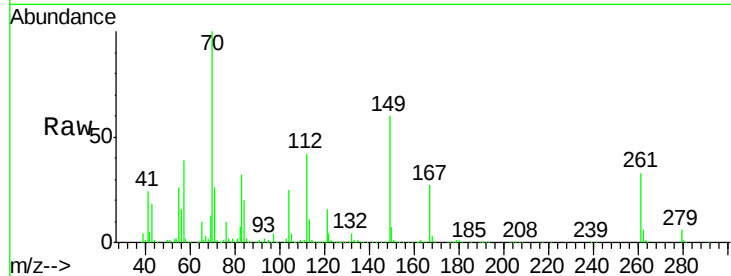
Tot Ion:149 Resp: 248983

Ion Ratio Lower Upper

149 100

167 45.1 0.0 0.0#

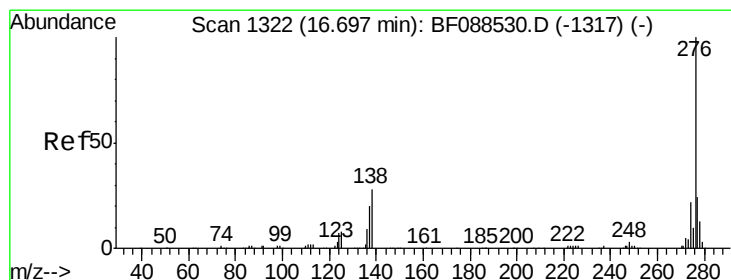
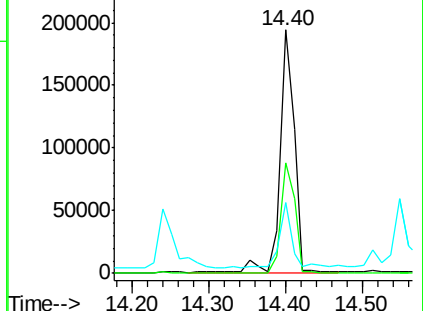
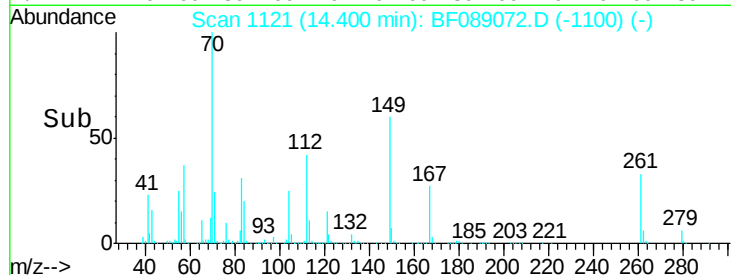
43 26.1 0.0 0.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.09 ng

RT: 16.41 min Scan# 1297

Delta R.T. -0.09 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

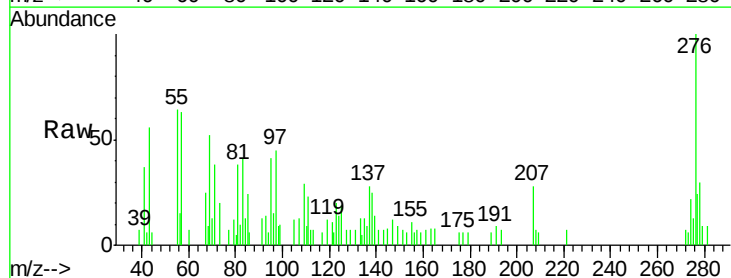
Tgt Ion:276 Resp: 13128

Ion Ratio Lower Upper

276 100

138 34.5 0.0 0.0#

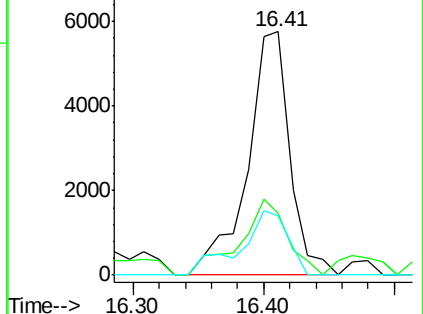
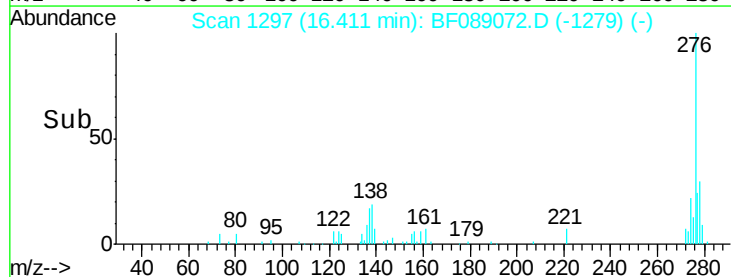
277 29.5 0.0 0.0#

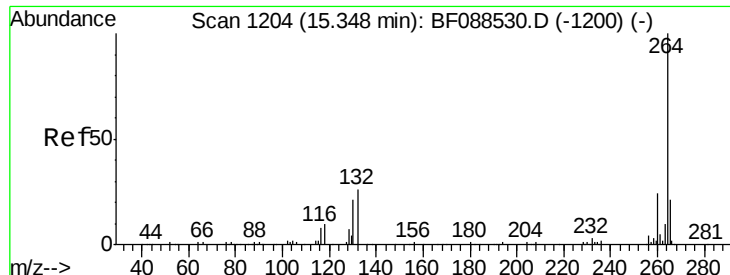


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

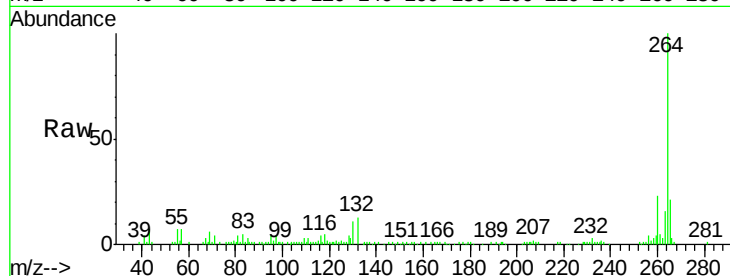




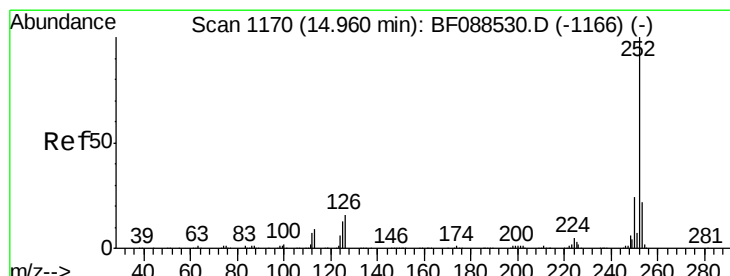
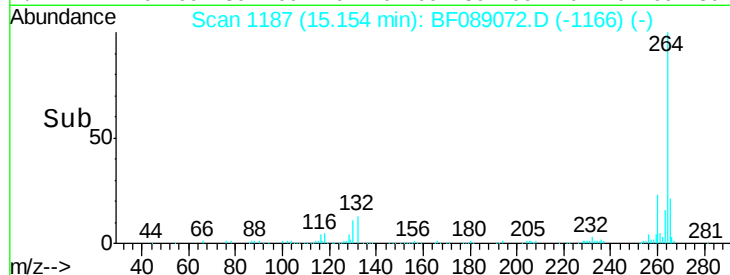
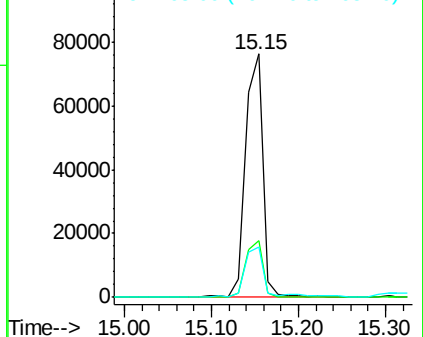
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.15 min Scan# 1187
Delta R.T. -0.06 min
Lab File: BF089072.D
Acq: 17 Jul 2016 12:12

Instrument :
BNA_F
ClientSampled :

Tot Ion:264 Resp: 106081
Ion Ratio Lower Upper
264 100
260 23.4 19.2 28.8
265 20.9 16.9 25.3

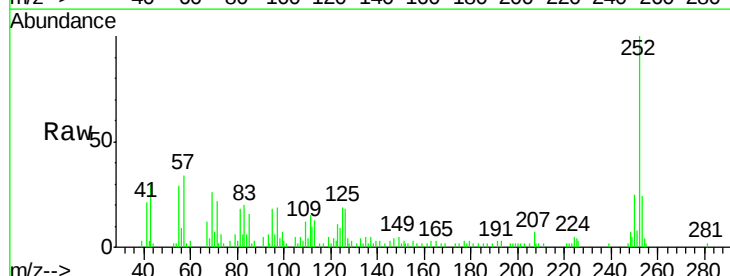


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

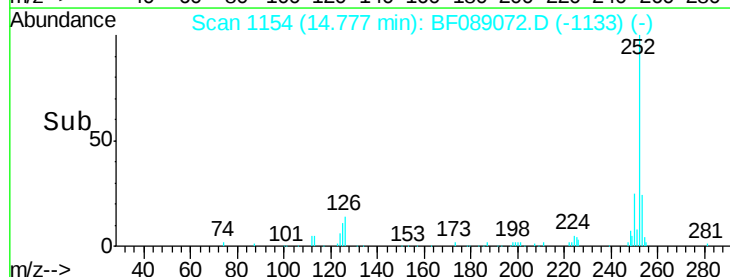
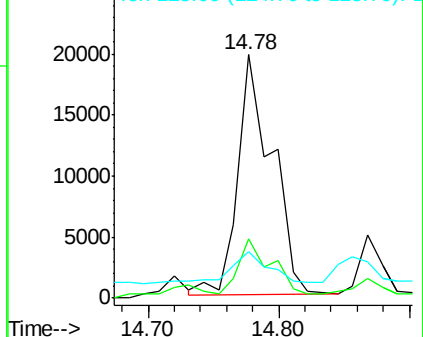


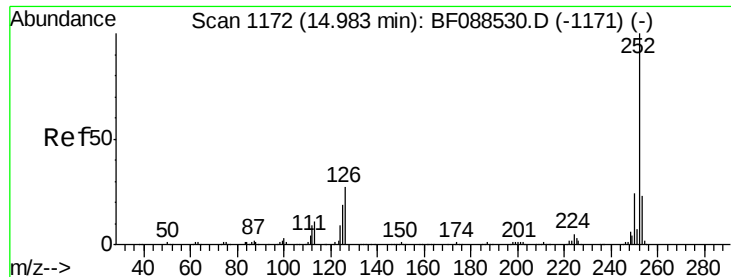
#87
Benzo(b)fluoranthene
Concen: 5.39 ng
RT: 14.78 min Scan# 1154
Delta R.T. -0.06 min
Lab File: BF089072.D
Acq: 17 Jul 2016 12:12

Tgt Ion:252 Resp: 35865
Ion Ratio Lower Upper
252 100
253 24.2 17.4 26.2
125 19.3 7.1 10.7#



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: 6.33 ng

RT: 14.78 min Scan# 1154

Delta R.T. -0.09 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

Instrument :

BNA_F

ClientSampleId :

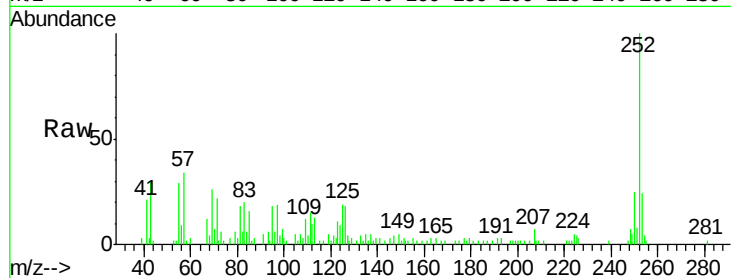
Tot Ion:252 Resp: 36681

Ion Ratio Lower Upper

252 100

253 24.2 18.0 27.0

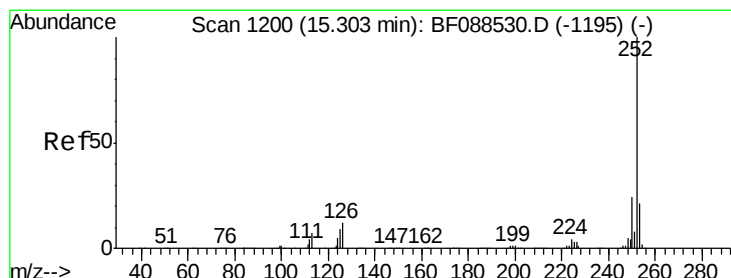
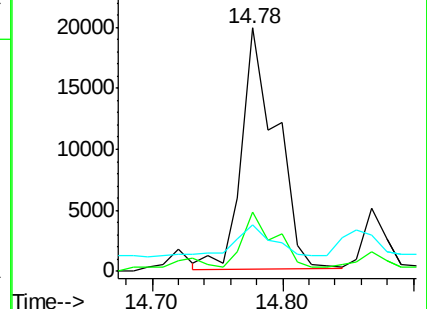
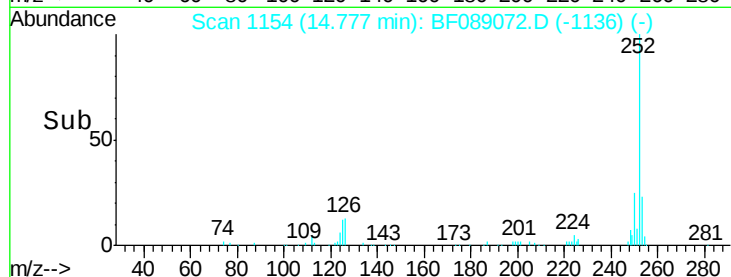
125 19.3 11.2 16.8#



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: 3.98 ng

RT: 15.09 min Scan# 1181

Delta R.T. -0.08 min

Lab File: BF089072.D

Acq: 17 Jul 2016 12:12

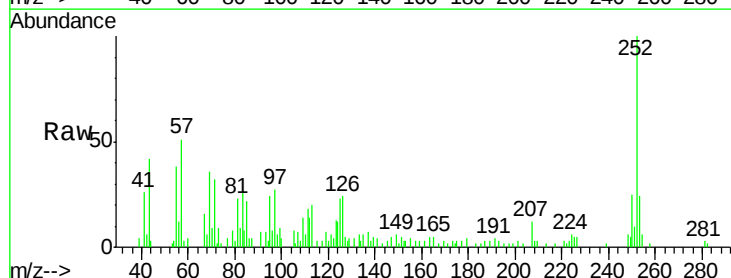
Tgt Ion:252 Resp: 22398

Ion Ratio Lower Upper

252 100

253 23.8 17.9 26.9

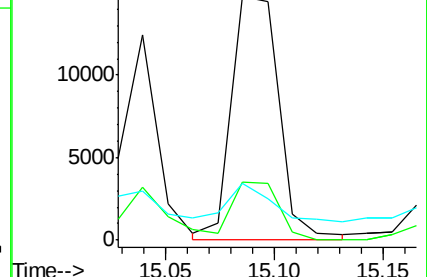
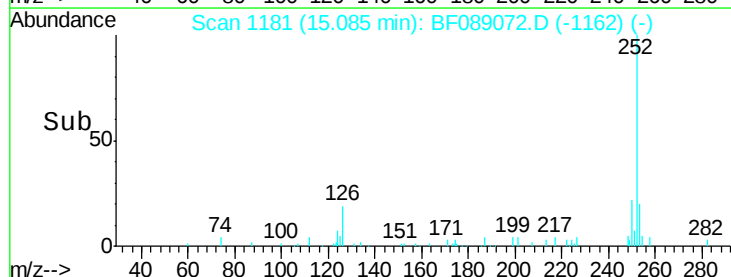
125 23.1 12.5 18.7#

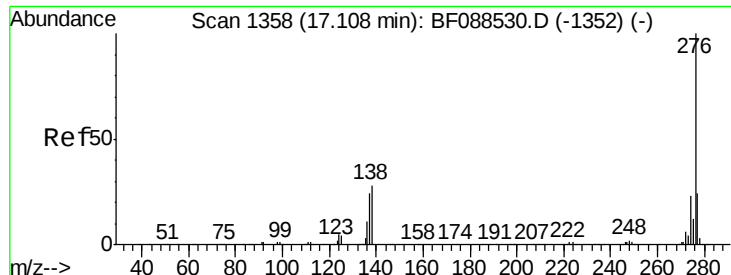


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

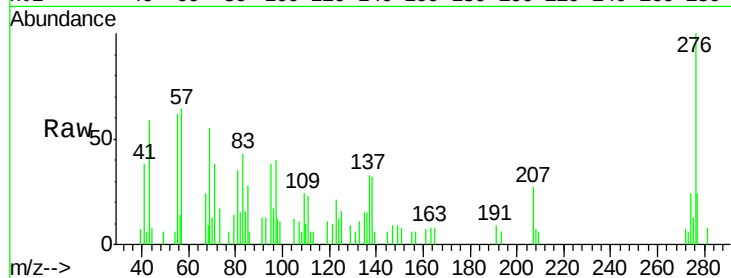




#91
 Benzo(a,h,i)perylene
 Concen: 2.53 ng
 RT: 16.78 min Scan# 1329
 Delta R.T. -0.11 min
 Lab File: BF089072.D
 Acq: 17 Jul 2016 12:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.2	18.9	28.3
138	31.6	21.4	32.2



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

