

Data Path : Z:\HPCHEM1\BNA F\DATA\BF083116\
 Data File : BF089941.D
 Acq On : 31 Aug 2016 10:55
 Operator : UM/SJ
 Sample : H4551-08RE
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AST-6RE

Quant Time: Aug 31 15:17:51 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF083116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 31 11:55:18 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.64	152	211823	20.00	ng	0.00
21) Naphthalene-d8	7.92	136	867711	20.00	ng	-0.01
38) Acenaphthene-d10	9.67	164	458188	20.00	ng	0.00
63) Phenanthrene-d10	11.13	188	850034	20.00	ng	-0.01
75) Chrysene-d12	13.75	240	628356	20.00	ng	-0.01
86) Perylene-d12	15.10	264	498318	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	1431100	108.14	ng	0.01
7) Phenol-d6	6.27	99	1729963	107.58	ng	0.00
23) Nitrobenzene-d5	7.20	82	902991	60.35	ng	-0.01
41) 2,4,6-Tribromophenol	10.44	330	357685	79.13	ng	-0.01
44) 2-Fluorobiphenyl	8.99	172	1862014	66.71	ng	-0.01
78) Terphenyl-d14	12.72	244	1625367	63.90	ng	0.00

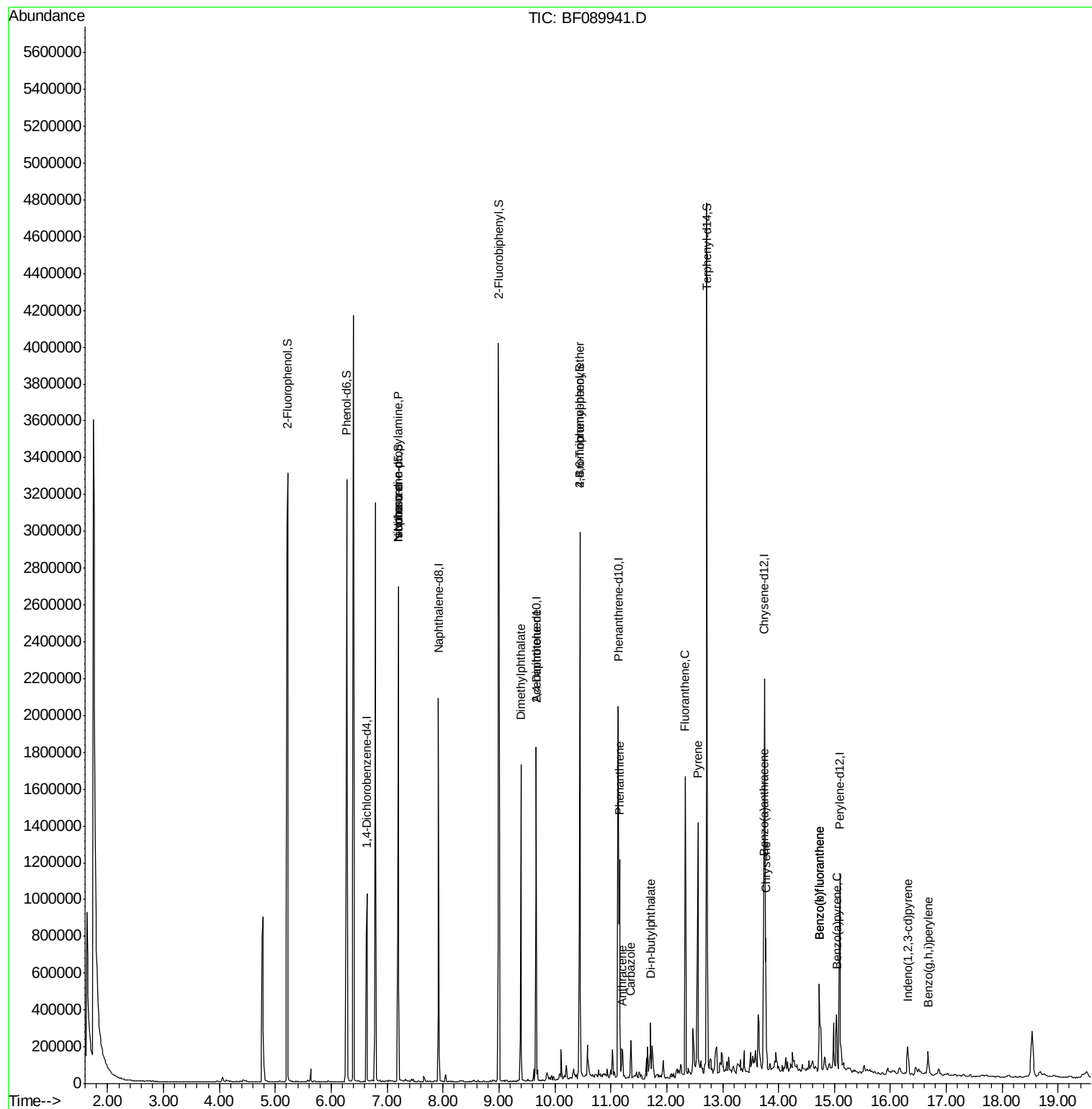
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.20	70	123103	11.75	ng	# 83
25) Isophorone	7.20	82	716670	23.56	ng	# 65
49) Dimethylphthalate	9.39	163	644005	19.45	ng	100
56) 2,4-Dinitrotoluene	9.67	165	60310	6.46	ng	# 30
66) 4-Bromophenyl-phenylether	10.44	248	23622	2.76	ng	# 1
70) Phenanthrene	11.15	178	455316	10.76	ng	99
71) Anthracene	11.21	178	90516	2.11	ng	98
72) Carbazole	11.36	167	92001	2.29	ng	97
73) Di-n-butylphthalate	11.71	149	163737	3.49	ng	# 98
74) Fluoranthene	12.33	202	664896	14.99	ng	95
77) Pyrene	12.56	202	595872	13.45	ng	98
80) Benzo(a)anthracene	13.74	228	287557	7.47	ng	99
82) Chrysene	13.77	228	216141	6.01	ng	97
85) Indeno(1,2,3-cd)pyrene	16.31	276	99678	3.75	ng	93
87) Benzo(b)fluoranthene	14.73	252	315086	10.09	ng	# 97
88) Benzo(k)fluoranthene	14.73	252	315086	11.89	ng	# 98
89) Benzo(a)pyrene	15.04	252	151833	5.68	ng	99
91) Benzo(g,h,i)perylene	16.67	276	92856	4.71	ng	99

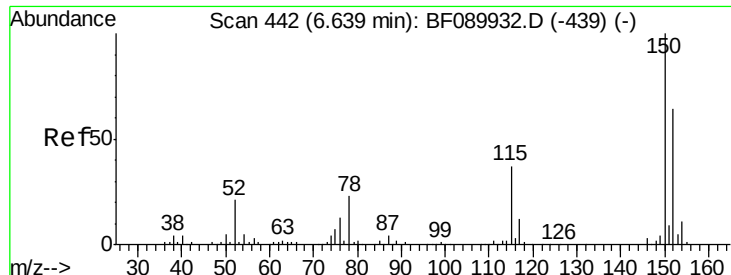
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.64 min Scan# 442

Delta R.T. 0.00 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

ClientSampleId :

AST-6RE

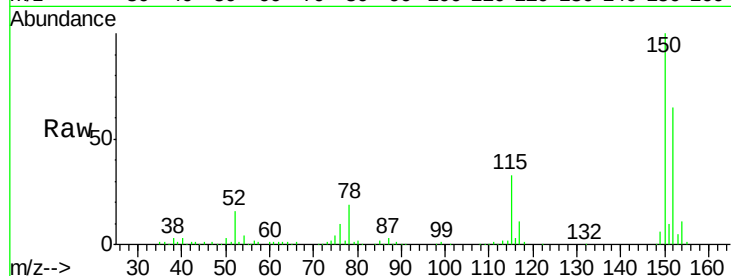
Tot Ion:152 Resp: 211823

Ion Ratio Lower Upper

152 100

150 153.9 127.4 191.2

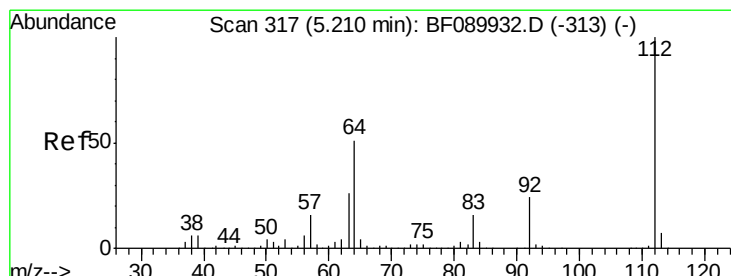
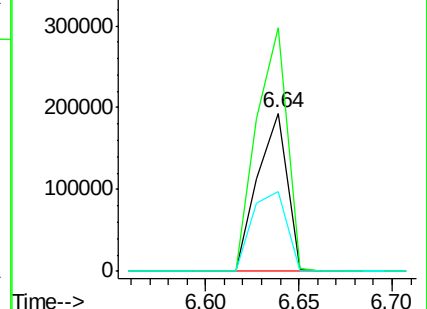
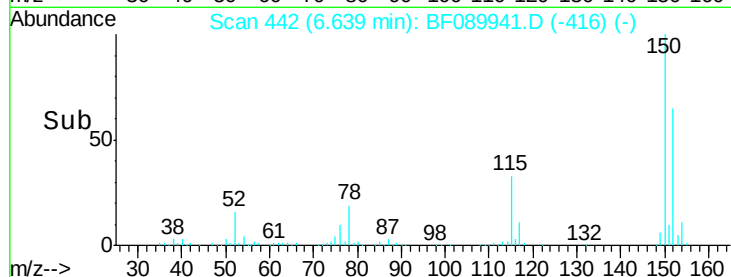
115 50.5 46.3 69.5



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: 108.14 ng

RT: 5.22 min Scan# 318

Delta R.T. 0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

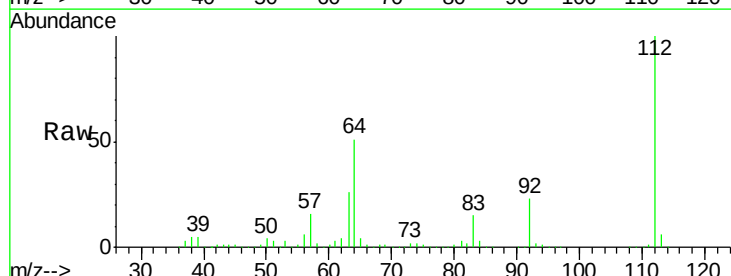
Tgt Ion:112 Resp: 1431100

Ion Ratio Lower Upper

112 100

64 50.9 41.1 61.7

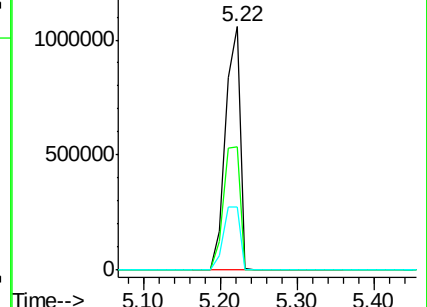
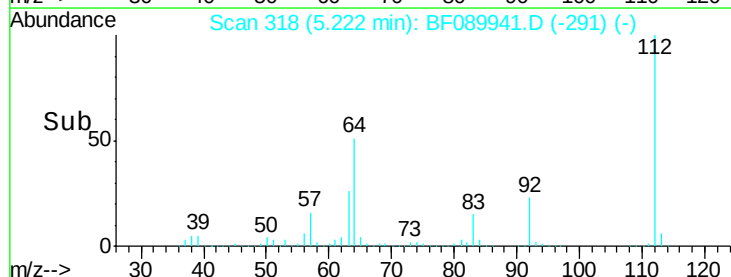
63 26.0 21.2 31.8

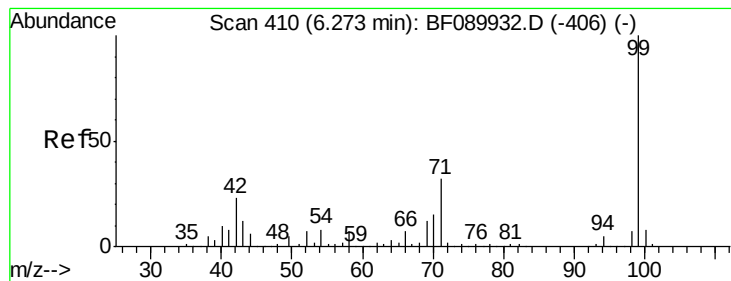


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 107.58 ng

RT: 6.27 min Scan# 410

Delta R.T. 0.00 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

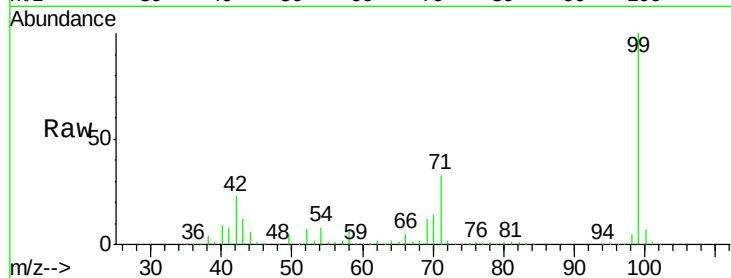
BNA_F

ClientSampled :

AST-6RE

Tot Ion: 99 Resp: 1729963

Ion	Ratio	Lower	Upper
99	100		
42	23.1	18.6	27.8
71	32.6	25.8	38.6

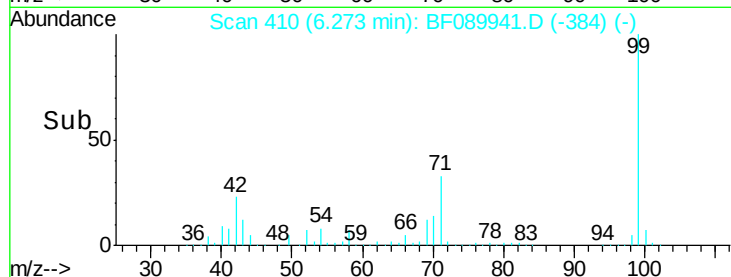


Abundance

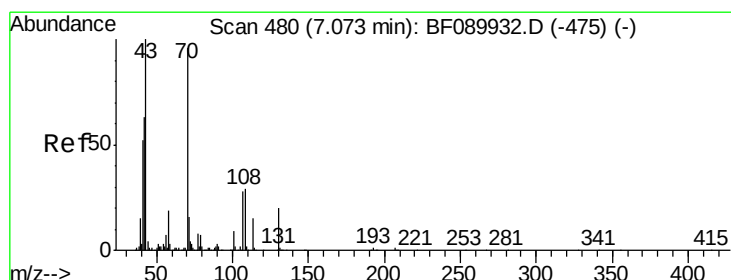
Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



Time-->



#19

n-Nitroso-di-n-propylamine

Concen: 11.75 ng

RT: 7.20 min Scan# 491

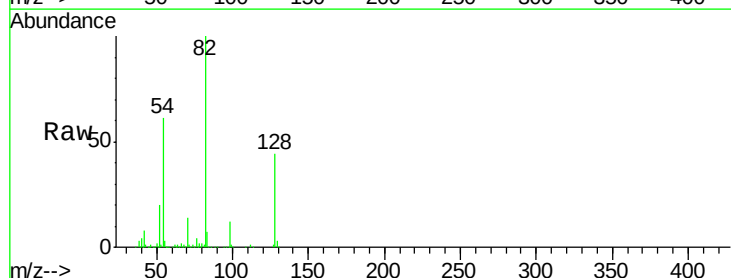
Delta R.T. 0.13 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Tgt Ion: 70 Resp: 123103

Ion	Ratio	Lower	Upper
70	100		
42	58.3	52.1	78.1
101	0.0	7.4	11.2#
130	2.0	17.0	25.4#



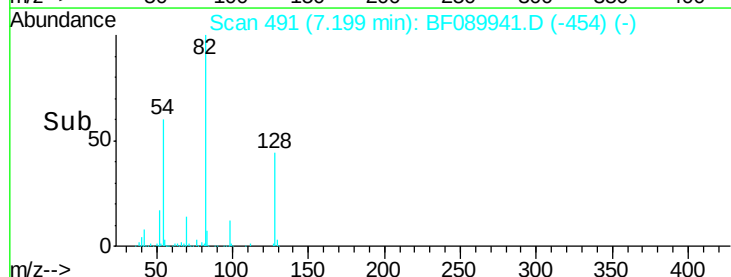
Abundance

Ion 70.00 (69.70 to 70.70): BF0

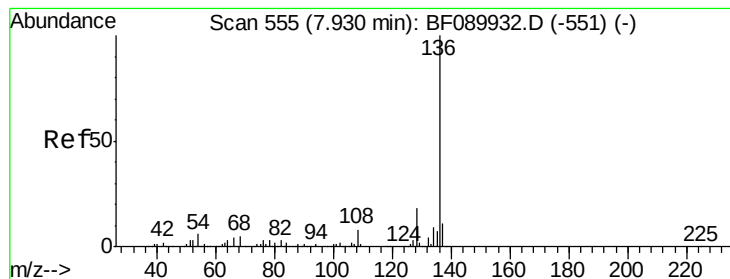
Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0



Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 554

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

ClientSampleId :

AST-6RE

Tot Ion:136 Resp: 867711

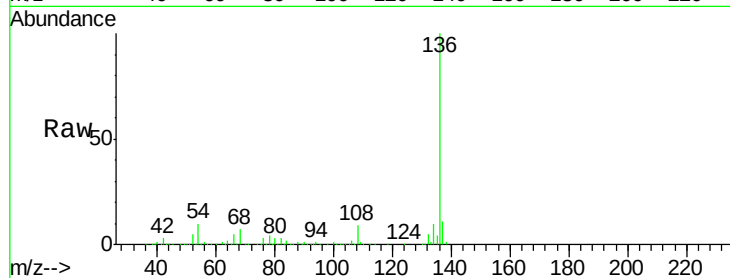
Ion Ratio Lower Upper

136 100

137 11.3 8.3 12.5

54 9.8 4.8 7.2#

68 6.8 3.7 5.5#

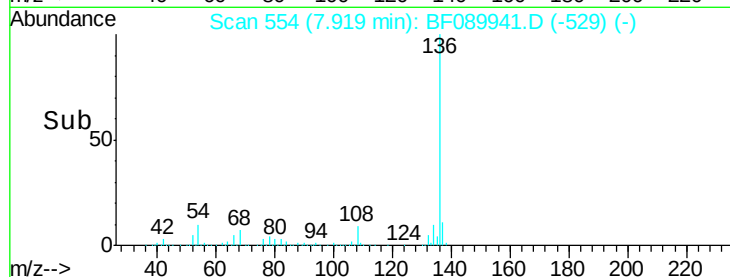


Abundance Ion 136.00 (135.70 to 136.70): E

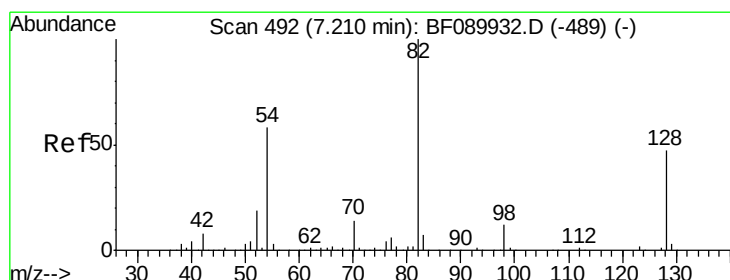
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 60.35 ng

RT: 7.20 min Scan# 491

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

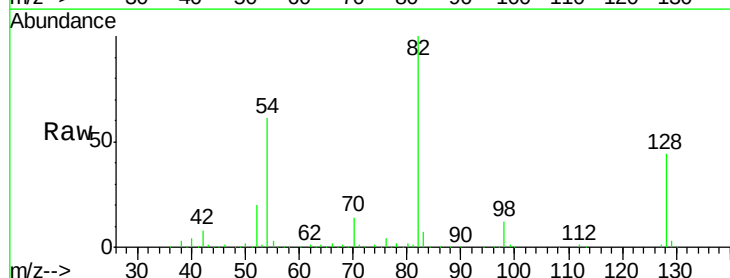
Tgt Ion: 82 Resp: 902991

Ion Ratio Lower Upper

82 100

128 43.8 37.8 56.8

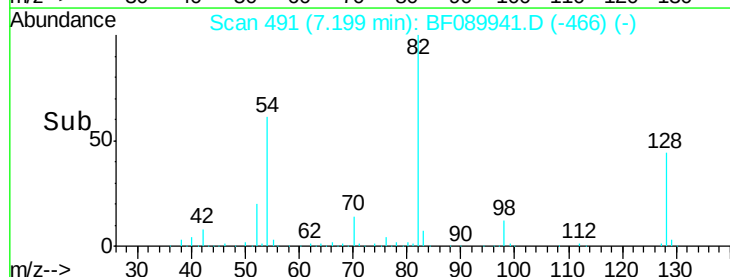
54 60.9 46.9 70.3



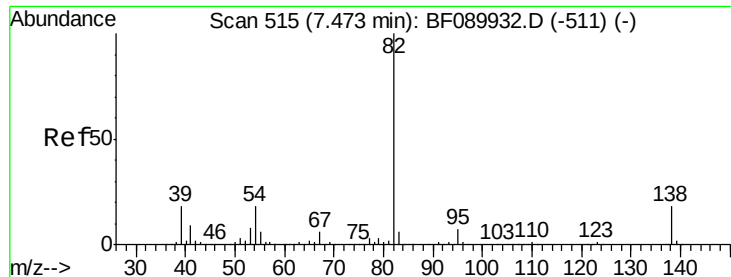
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->



#25

Isophorone

Concen: 23.56 ng

RT: 7.20 min Scan# 491

Delta R.T. -0.27 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

ClientSampleId :

AST-6RE

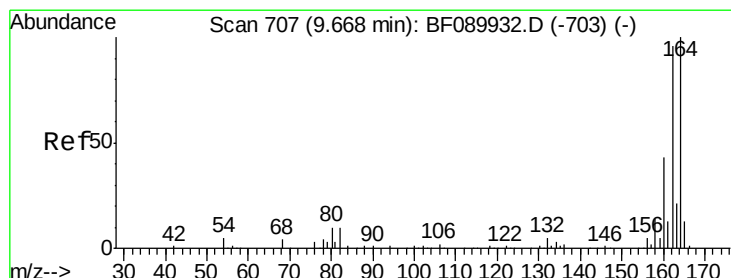
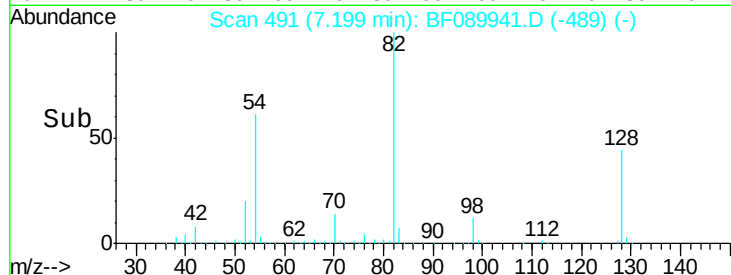
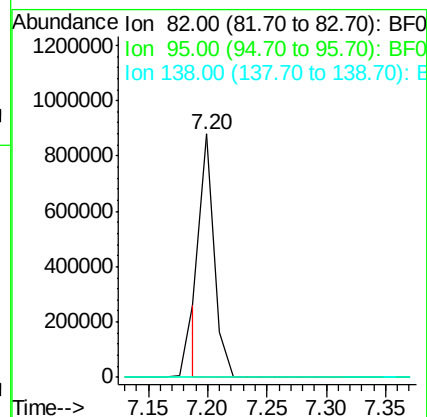
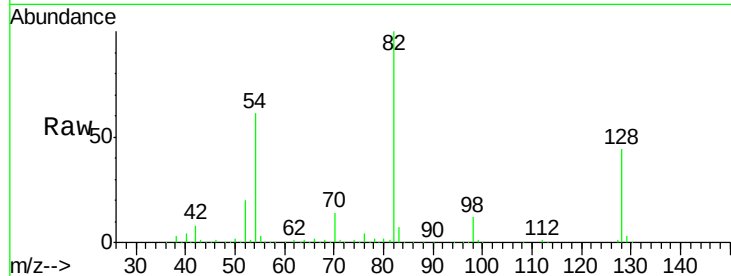
Tot Ion: 82 Resp: 716670

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

138 0.0 14.4 21.6#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.67 min Scan# 707

Delta R.T. 0.00 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

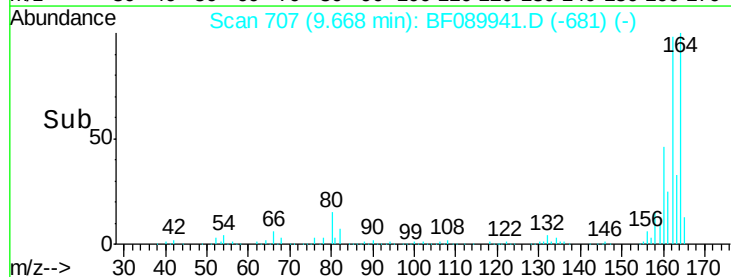
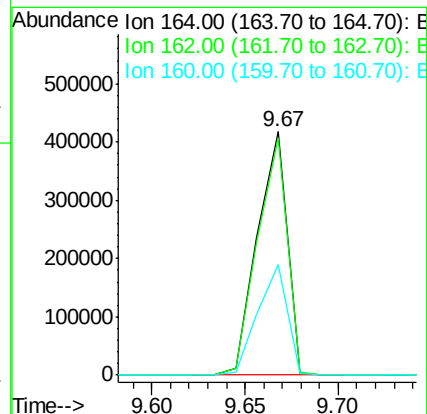
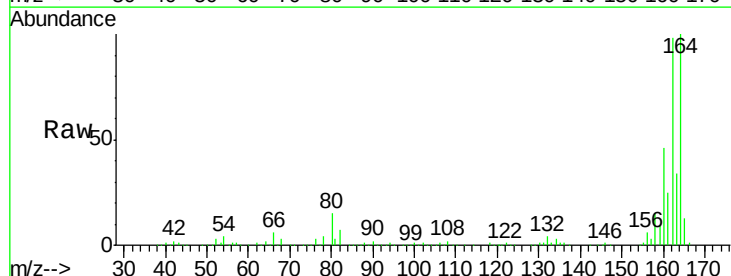
Tgt Ion:164 Resp: 458188

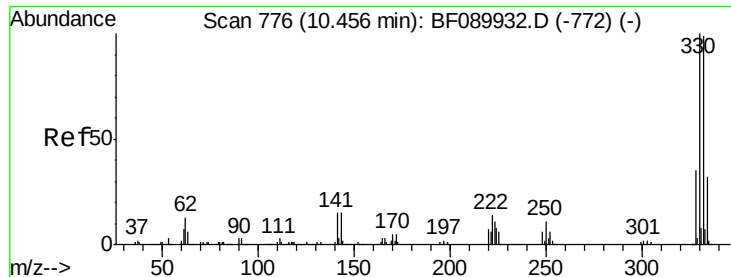
Ion Ratio Lower Upper

164 100

162 97.6 77.1 115.7

160 45.6 35.3 52.9

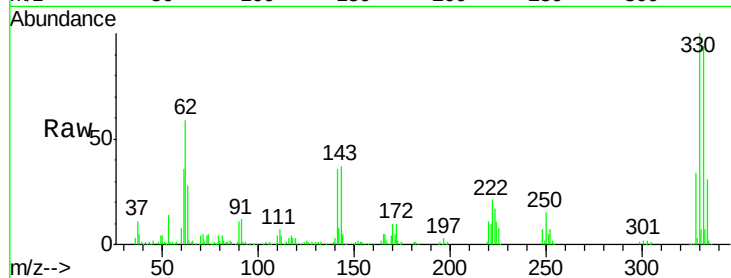




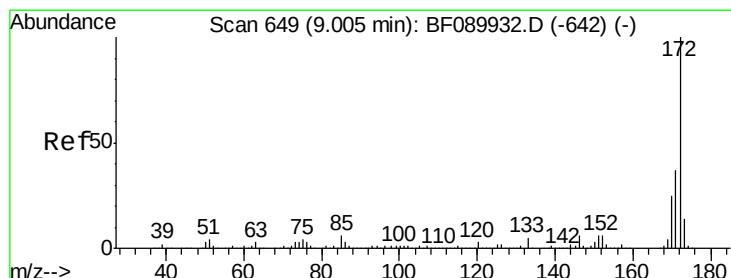
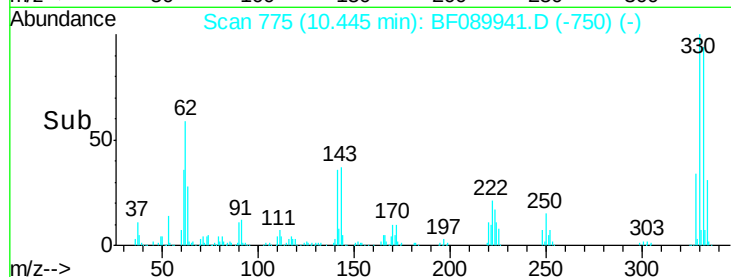
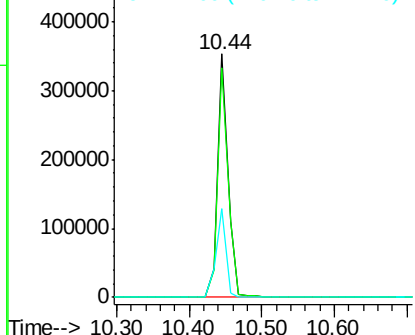
#41
 2,4,6-Tribromophenol
 Concen: 79.13 ng
 RT: 10.44 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF089941.D
 Acq: 31 Aug 2016 10:55

Instrument :
 BNA_F
 ClientSampleId :
 AST-6RE

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.5	78.6	117.8
141	34.6	23.3	34.9

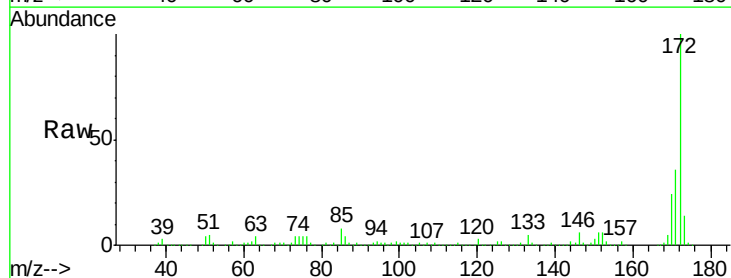


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

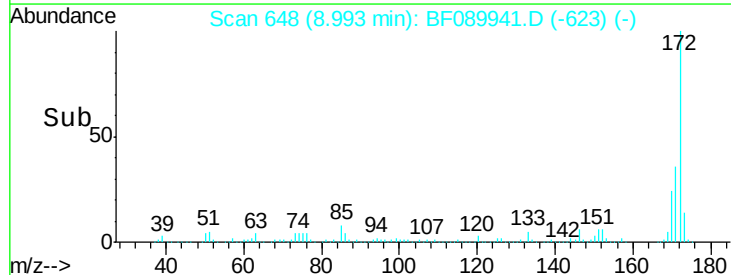
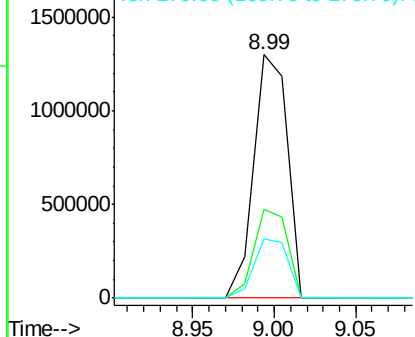


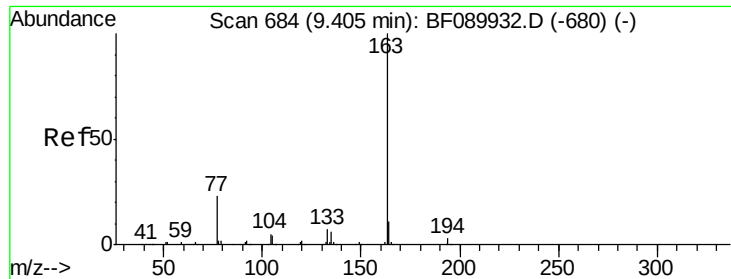
#44
 2-Fluorobiphenyl
 Concen: 66.71 ng
 RT: 8.99 min Scan# 648
 Delta R.T. -0.01 min
 Lab File: BF089941.D
 Acq: 31 Aug 2016 10:55

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.4	44.2
170	24.5	20.1	30.1



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

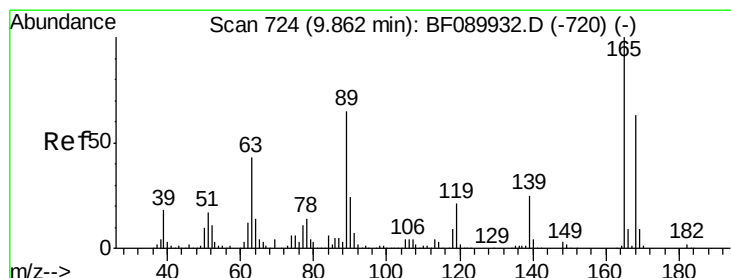
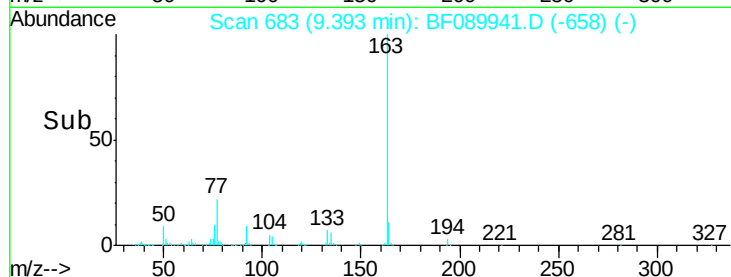
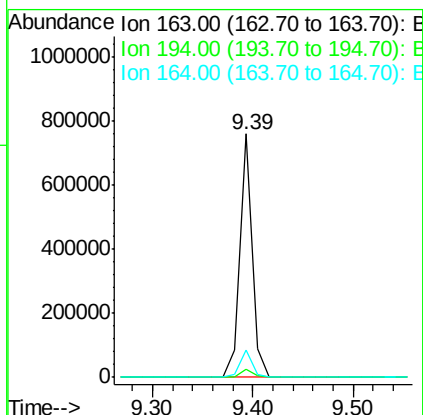
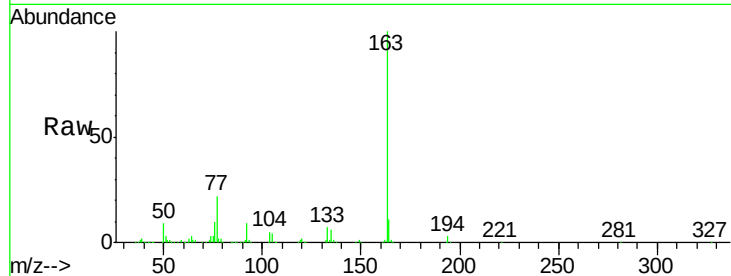




#49
Dimethylphthalate
Concen: 19.45 ng
RT: 9.39 min Scan# 683
Delta R.T. -0.01 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

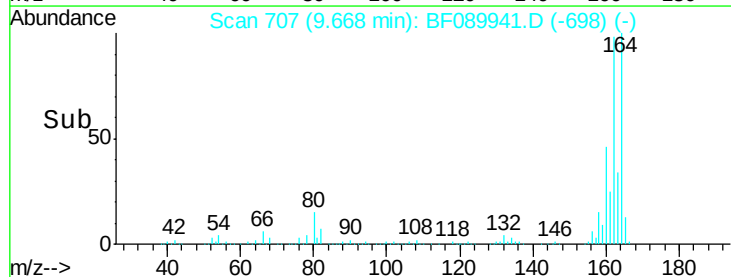
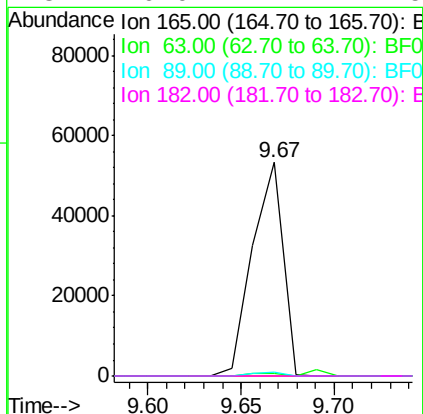
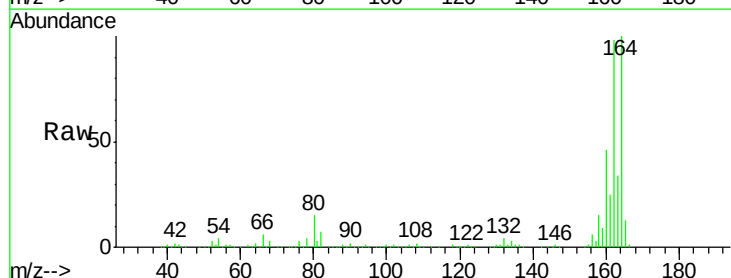
Instrument :
BNA_F
ClientSampleId :
AST-6RE

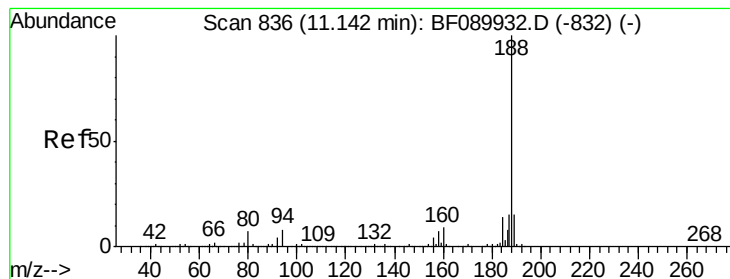
Tot Ion	Ratio	Lower	Upper
163	100		
194	3.3	2.7	4.1
164	11.2	9.0	13.4



#56
2,4-Dinitrotoluene
Concen: 6.46 ng
RT: 9.67 min Scan# 707
Delta R.T. -0.19 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	32.5	48.7#
89	1.5	48.3	72.5#
182	0.0	1.7	2.5#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.13 min Scan# 835

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

ClientSampleId :

AST-6RE

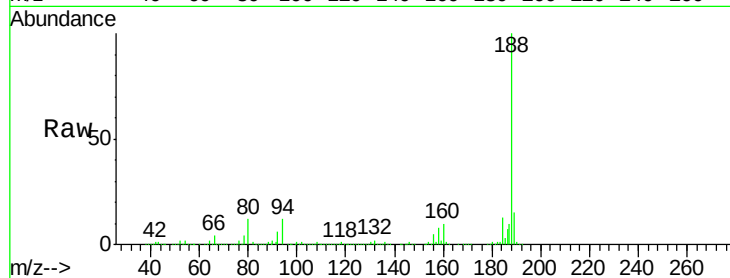
Tot Ion:188 Resp: 850034

Ion Ratio Lower Upper

188 100

94 11.7 5.9 8.9#

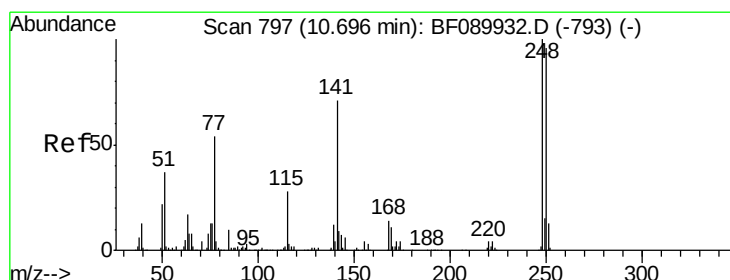
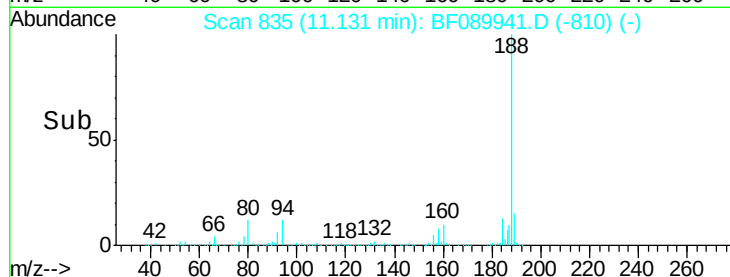
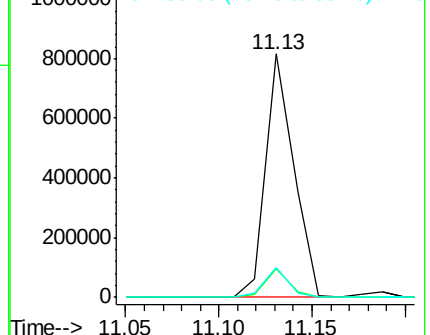
80 12.2 5.8 8.8#



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



#66

4-Bromophenyl-phenylether

Concen: 2.76 ng

RT: 10.44 min Scan# 775

Delta R.T. -0.25 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

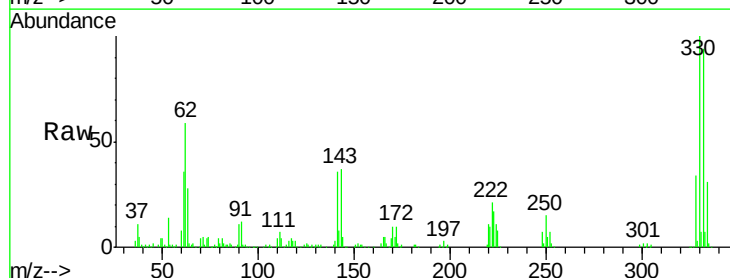
Tgt Ion:248 Resp: 23622

Ion Ratio Lower Upper

248 100

250 199.0 77.3 115.9#

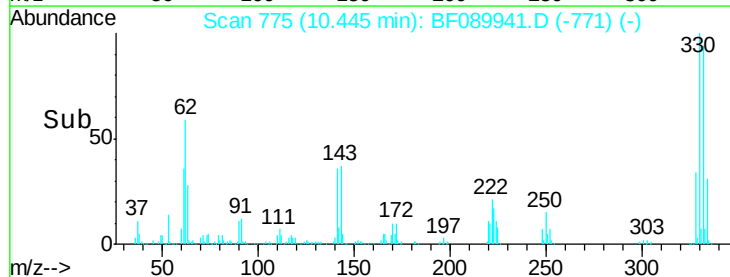
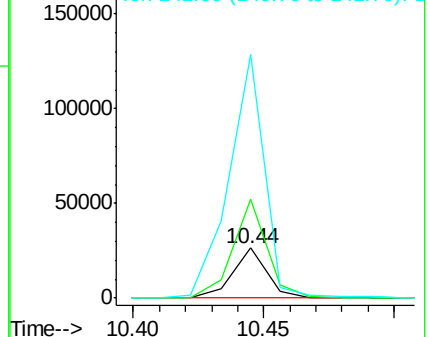
141 489.4 55.8 83.8#

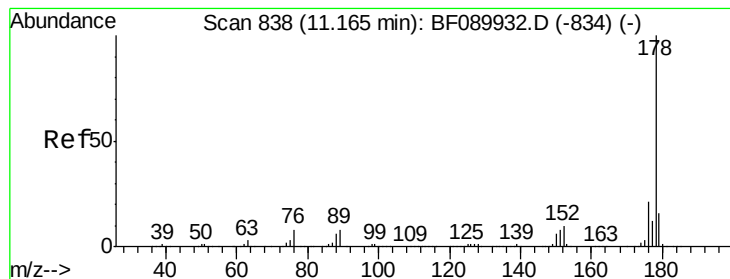


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 10.76 ng

RT: 11.15 min Scan# 837

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

ClientSampleId :

AST-6RE

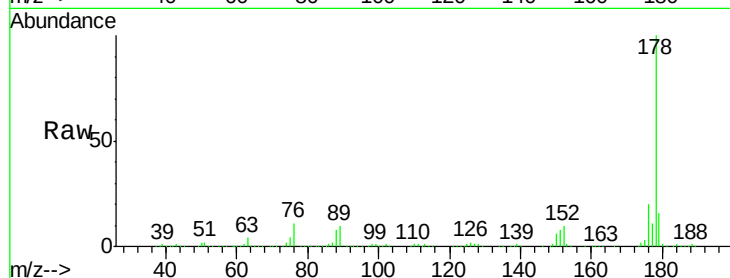
Tot Ion:178 Resp: 455316

Ion Ratio Lower Upper

178 100

176 19.5 16.5 24.7

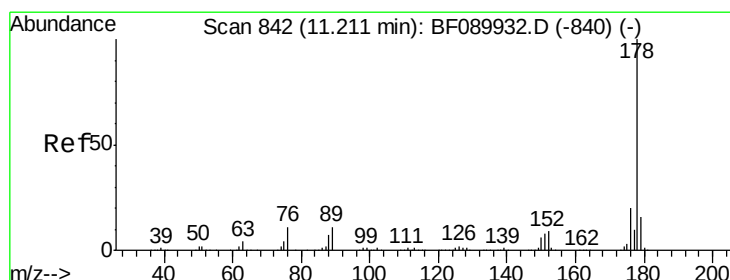
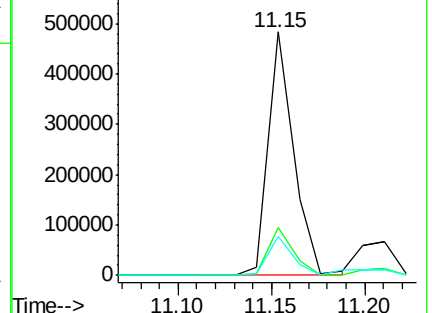
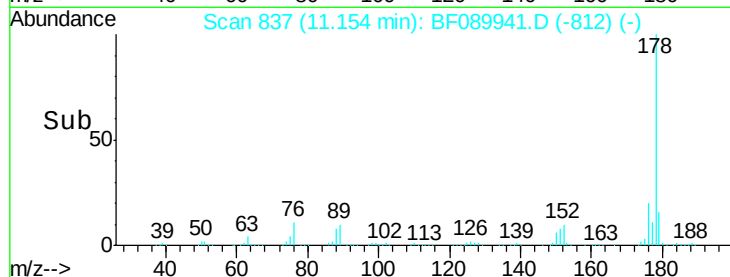
179 15.8 12.8 19.2



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



#71

Anthracene

Concen: 2.11 ng

RT: 11.21 min Scan# 842

Delta R.T. 0.00 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

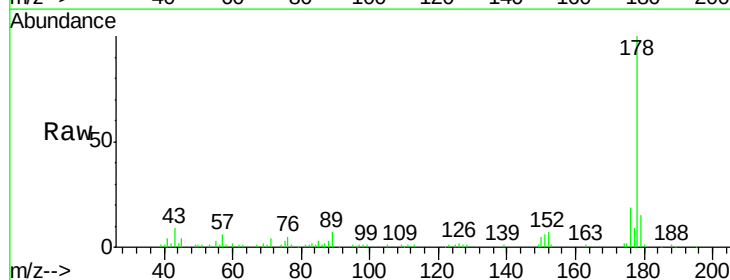
Tgt Ion:178 Resp: 90516

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.8

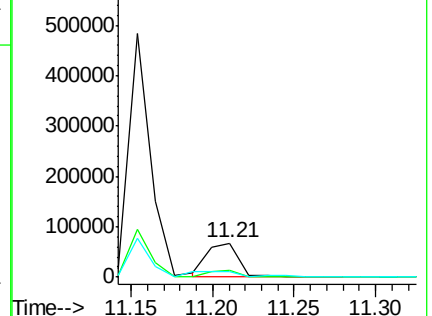
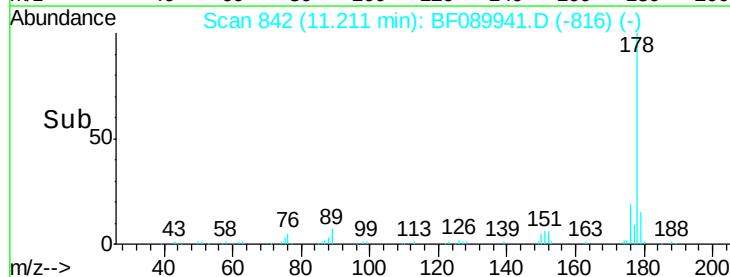
179 15.3 13.0 19.4

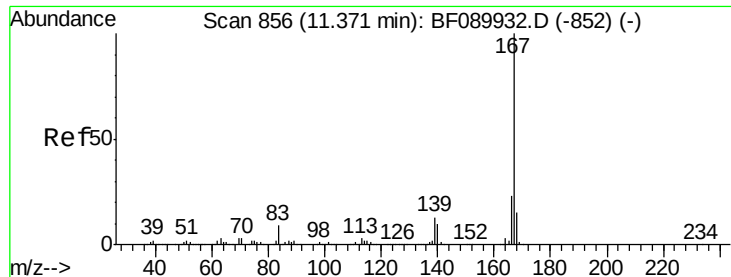


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.29 ng

RT: 11.36 min Scan# 855

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

ClientSampleId :

AST-6RE

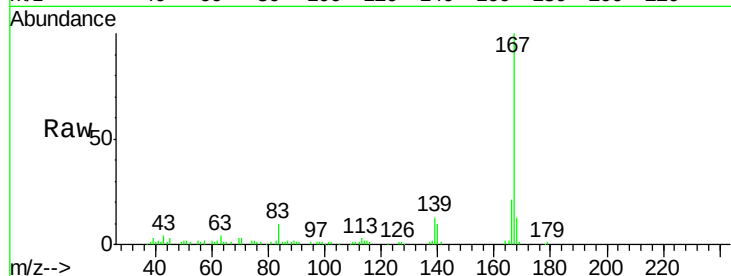
Tot Ion:167 Resp: 92001

Ion Ratio Lower Upper

167 100

166 20.7 18.1 27.1

139 13.1 10.4 15.6



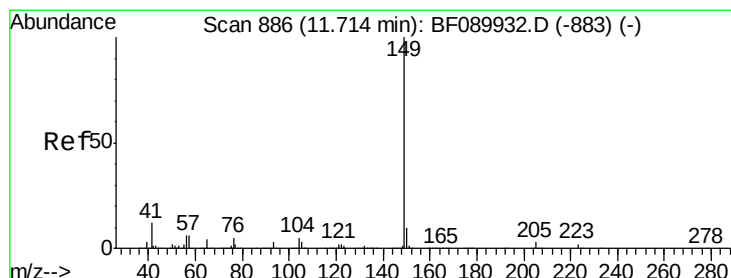
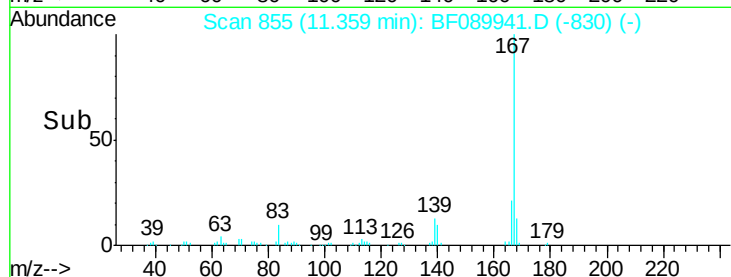
Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

11.36

Time-->



#73

Di-n-butylphthalate

Concen: 3.49 ng

RT: 11.71 min Scan# 886

Delta R.T. 0.00 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

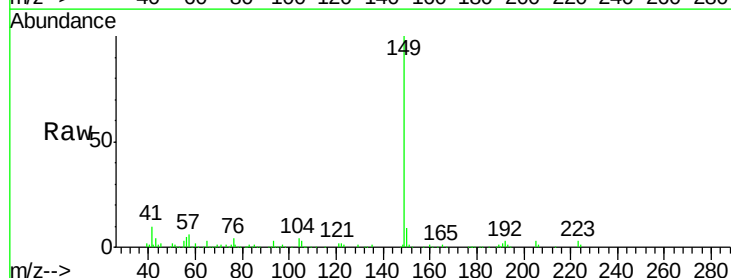
Tgt Ion:149 Resp: 163737

Ion Ratio Lower Upper

149 100

150 9.2 7.8 11.8

104 3.8 3.9 5.9#



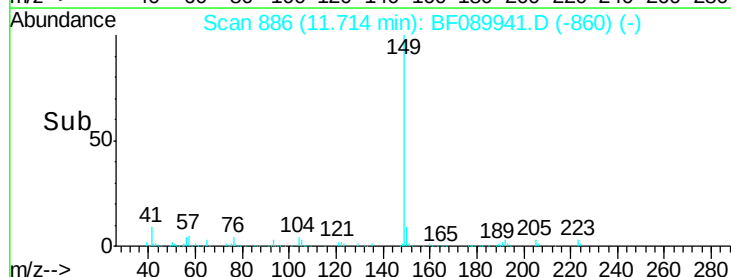
Abundance Ion 149.00 (148.70 to 149.70): E

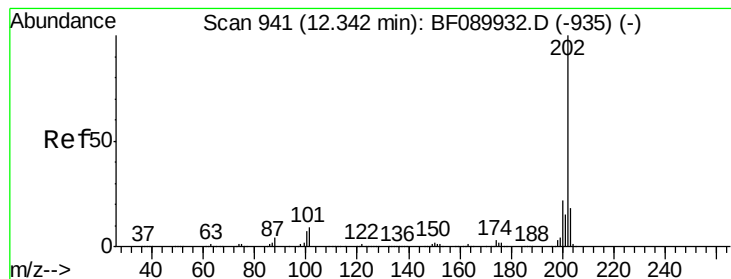
Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

11.71

Time-->





#74

Fluoranthene

Concen: 14.99 ng

RT: 12.33 min Scan# 940

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

ClientSampleId :

AST-6RE

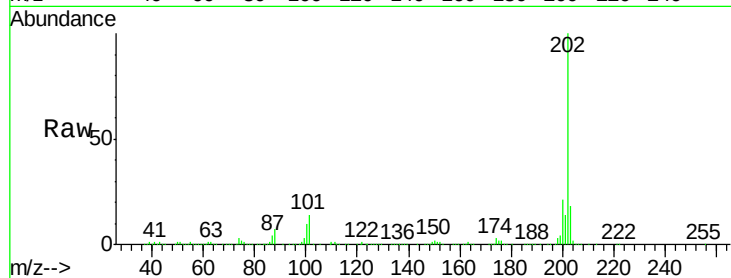
Tot Ion:202 Resp: 664896

Ion Ratio Lower Upper

202 100

101 13.8 0.0 28.5

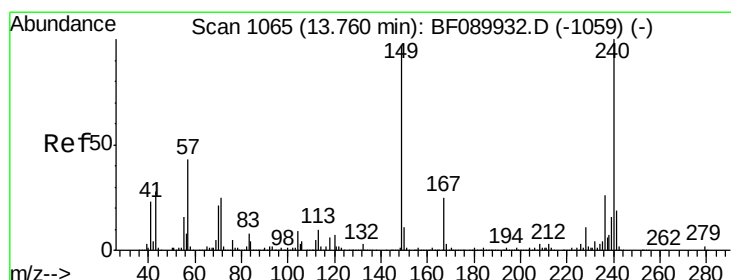
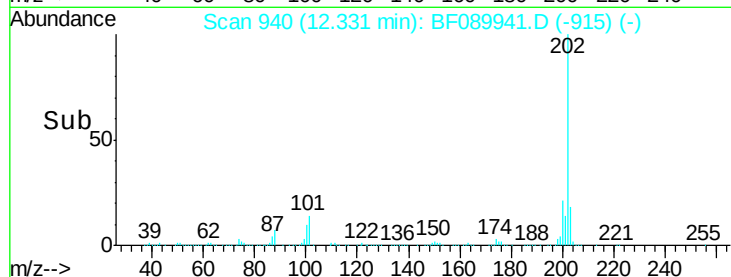
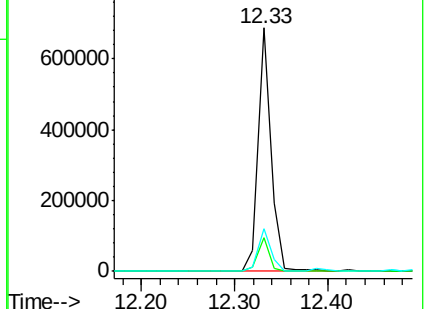
203 17.7 0.0 38.0



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: 13.75 min Scan# 1064

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

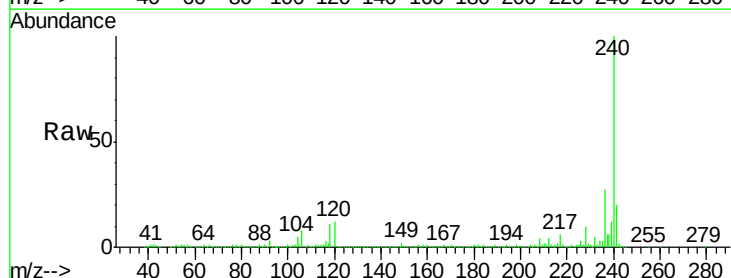
Tgt Ion:240 Resp: 628356

Ion Ratio Lower Upper

240 100

120 12.5 5.7 8.5#

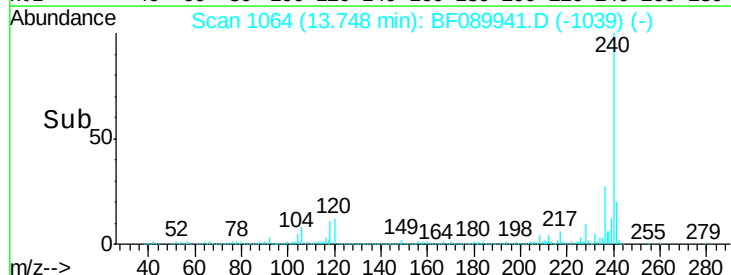
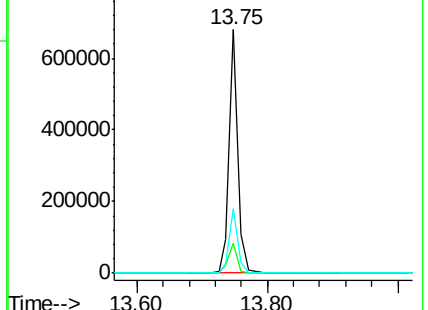
236 26.5 21.3 31.9

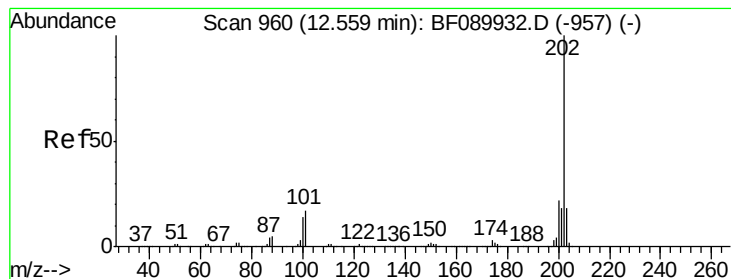


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 13.45 ng

RT: 12.56 min Scan# 960

Delta R.T. 0.00 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

ClientSampleId :

AST-6RE

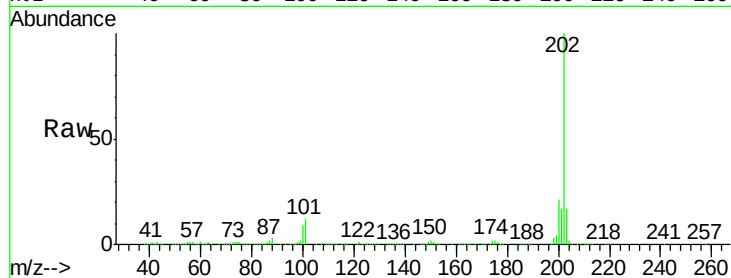
Tot Ion:202 Resp: 595872

Ion Ratio Lower Upper

202 100

200 21.1 17.6 26.4

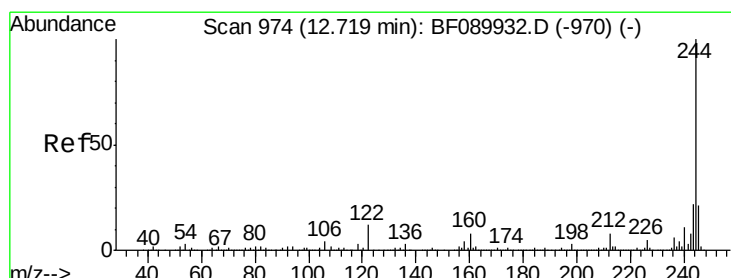
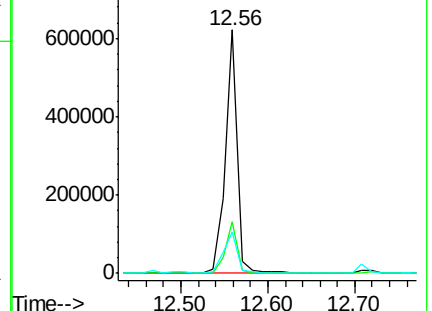
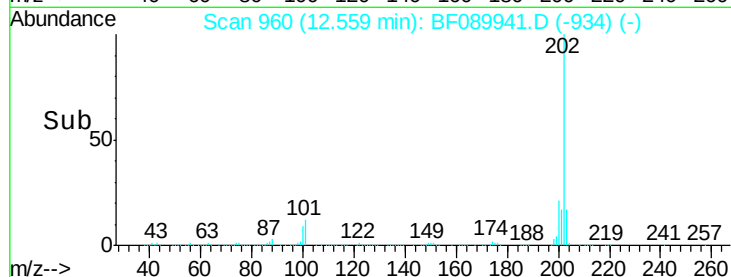
203 17.3 14.6 21.8



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: 63.90 ng

RT: 12.72 min Scan# 974

Delta R.T. 0.00 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

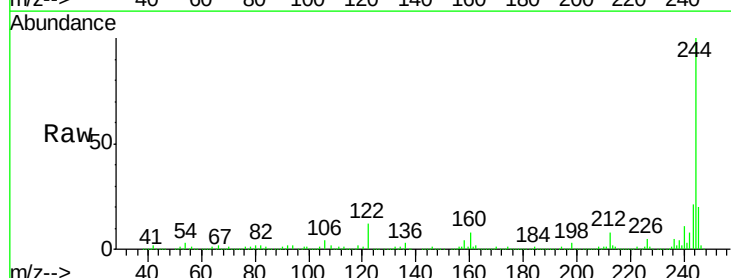
Tgt Ion:244 Resp: 1625367

Ion Ratio Lower Upper

244 100

212 7.7 6.1 9.1

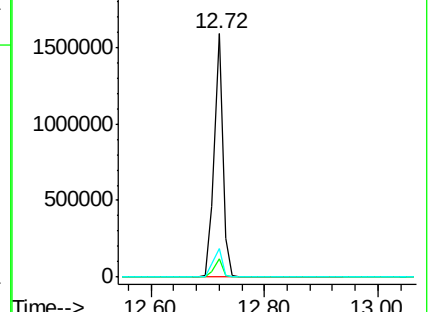
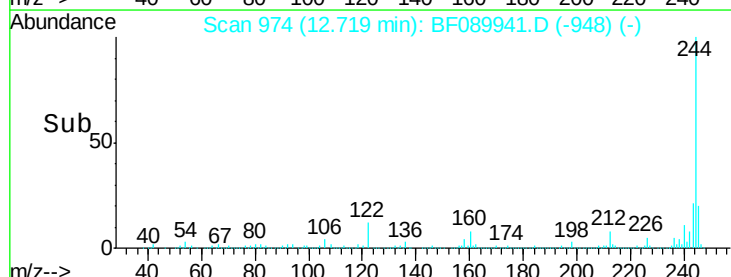
122 11.6 9.6 14.4

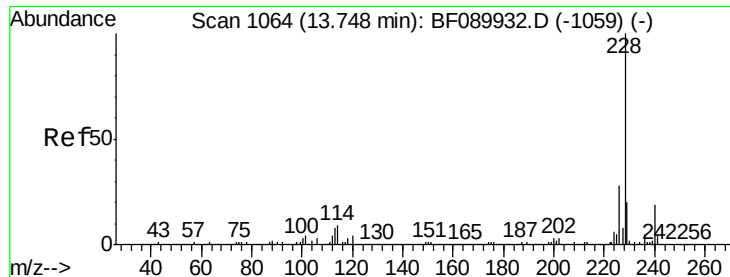


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 7.47 ng

RT: 13.74 min Scan# 1063

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

ClientSampleId :

AST-6RE

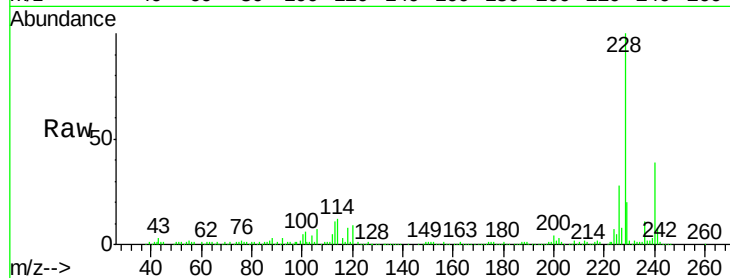
Tot Ion:228 Resp: 287557

Ion Ratio Lower Upper

228 100

226 28.3 22.2 33.2

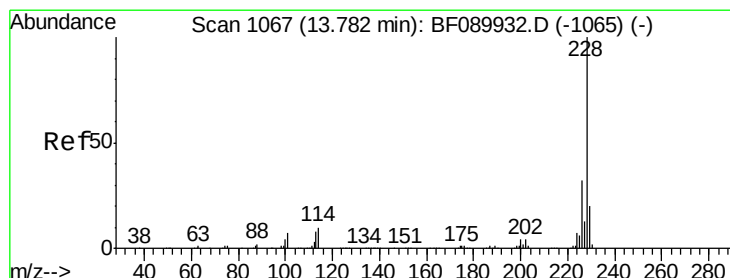
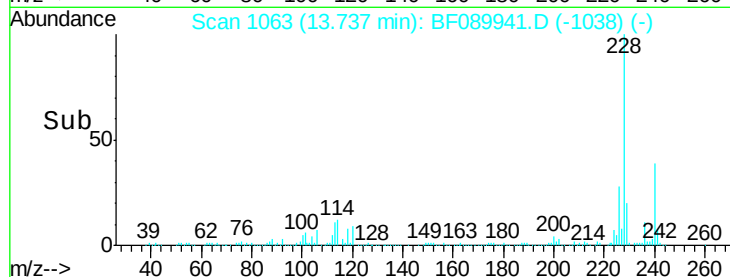
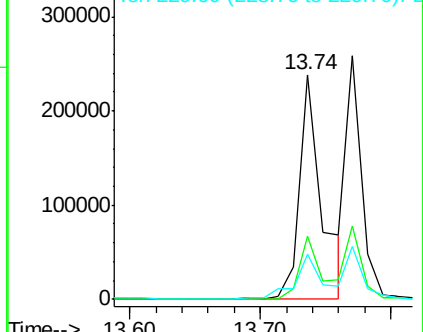
229 20.1 15.8 23.6



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: 6.01 ng

RT: 13.77 min Scan# 1066

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

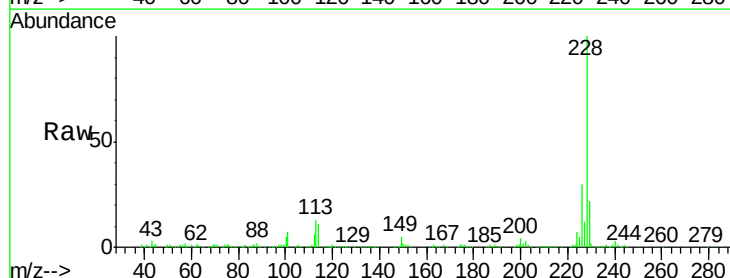
Tgt Ion:228 Resp: 216141

Ion Ratio Lower Upper

228 100

226 30.1 25.2 37.8

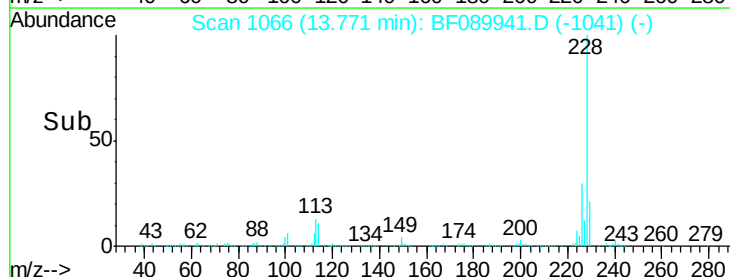
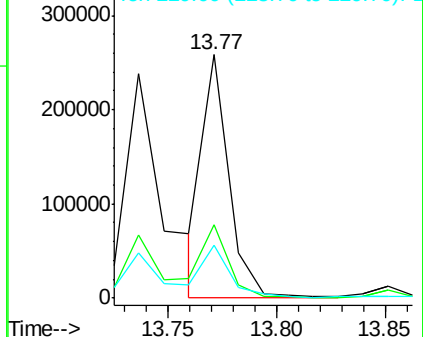
229 21.6 16.2 24.2

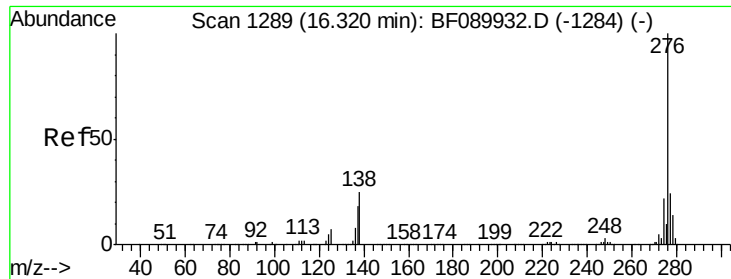


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

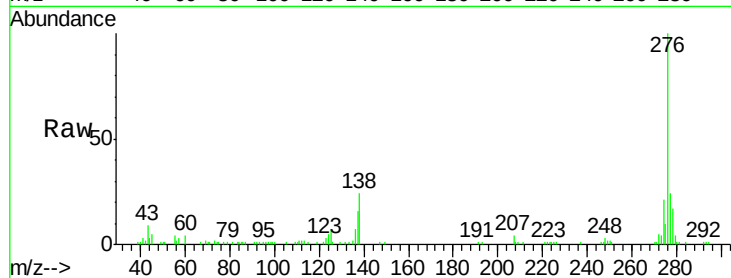




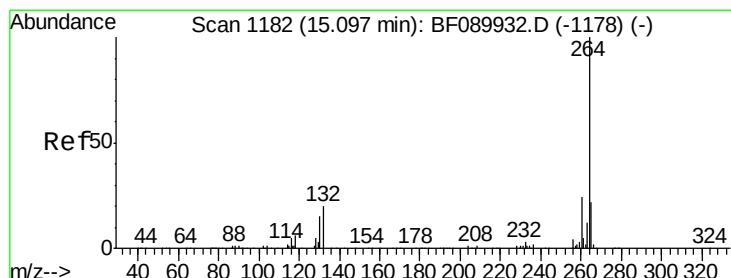
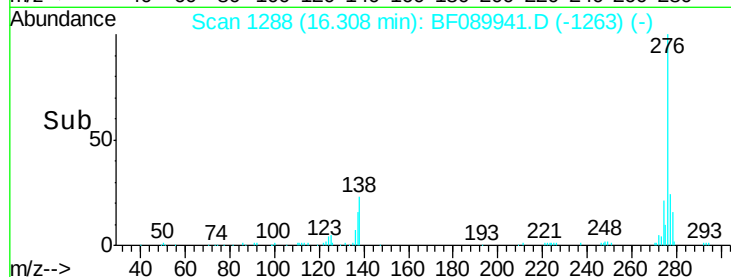
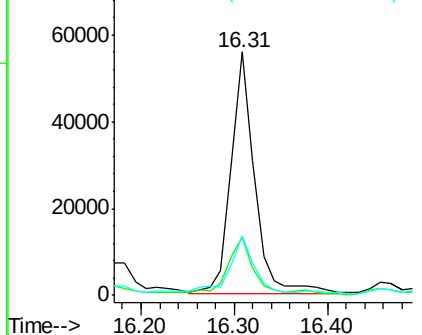
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.75 ng
RT: 16.31 min Scan# 1288
Delta R.T. -0.01 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Instrument :
BNA_F
ClientSampleId :
AST-6RE

Tot Ion:276 Resp: 99678
Ion Ratio Lower Upper
276 100
138 23.8 22.6 34.0
277 27.9 20.1 30.1

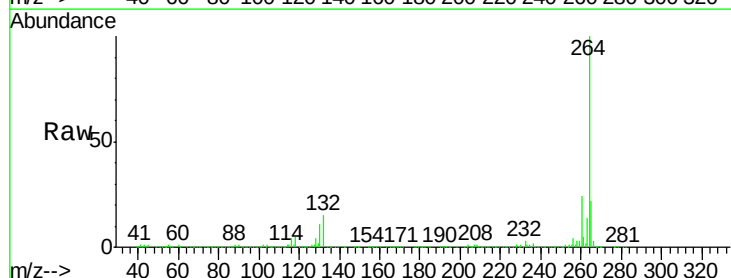


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

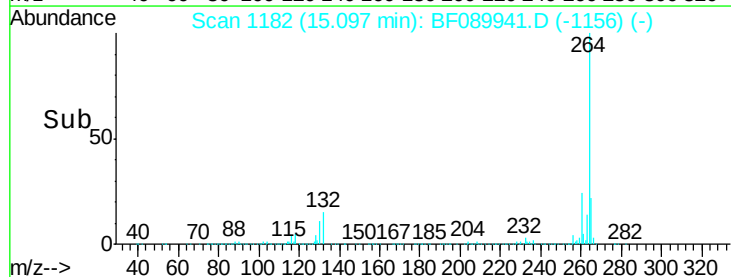
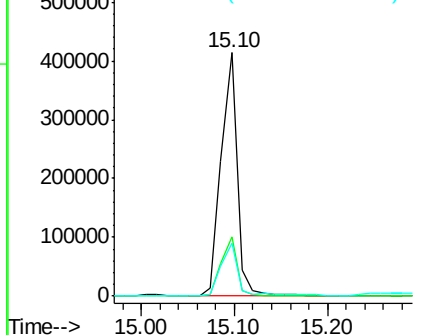


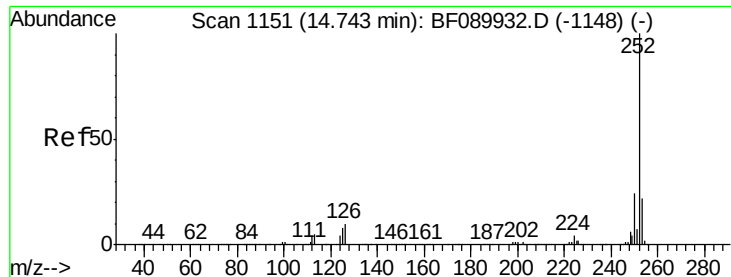
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.10 min Scan# 1182
Delta R.T. 0.00 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Tgt Ion:264 Resp: 498318
Ion Ratio Lower Upper
264 100
260 24.3 19.4 29.0
265 21.9 17.4 26.2



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

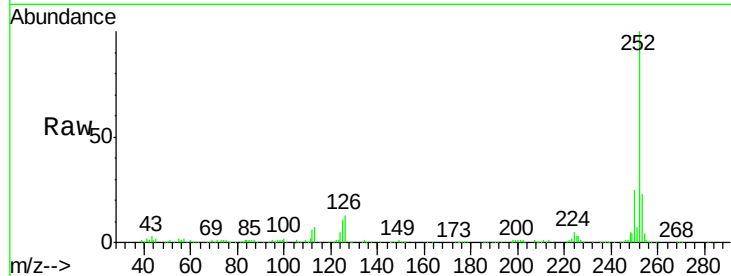




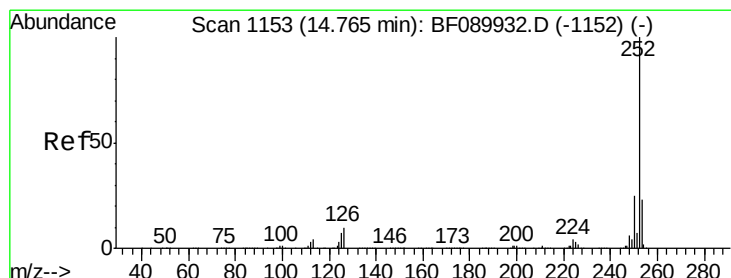
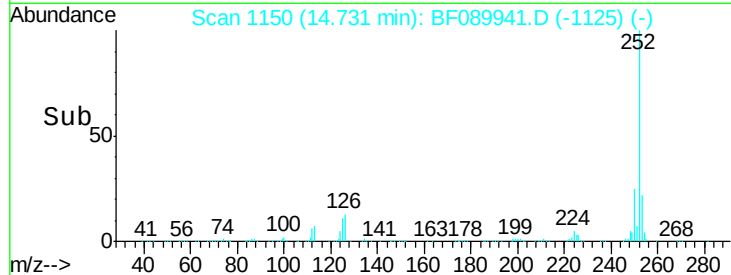
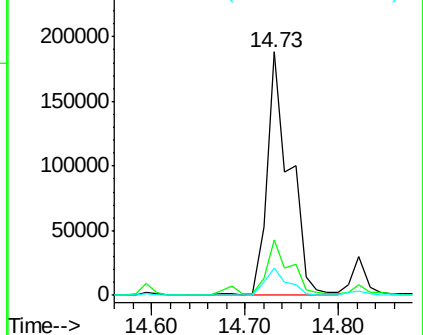
#87
Benzo(b)fluoranthene
Concen: 10.09 ng
RT: 14.73 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Instrument :
BNA_F
ClientSampleId :
AST-6RE

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0
125	11.0	5.7	8.5#

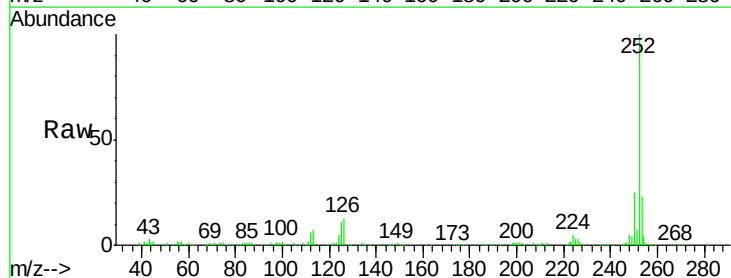


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

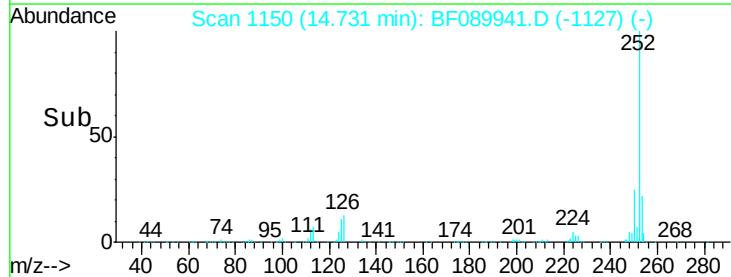
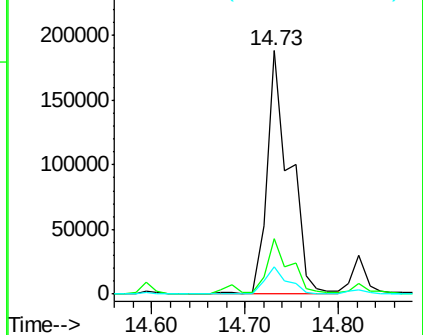


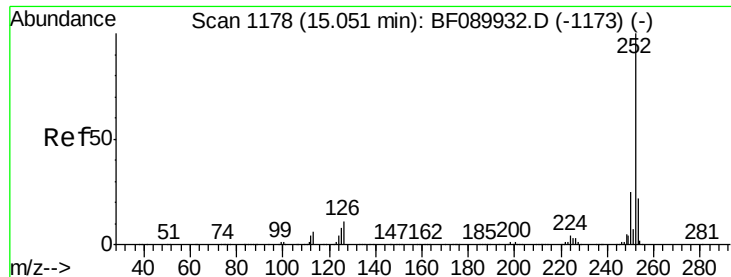
#88
Benzo(k)fluoranthene
Concen: 11.89 ng
RT: 14.73 min Scan# 1150
Delta R.T. -0.03 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	11.0	7.3	10.9#



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

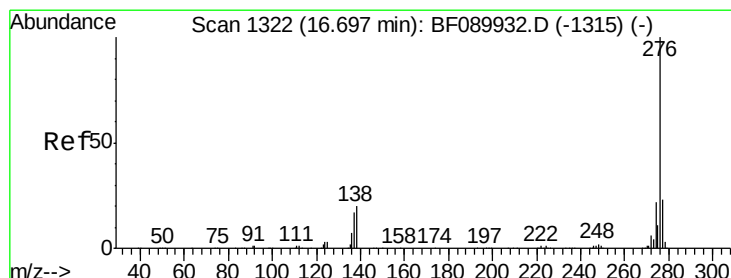
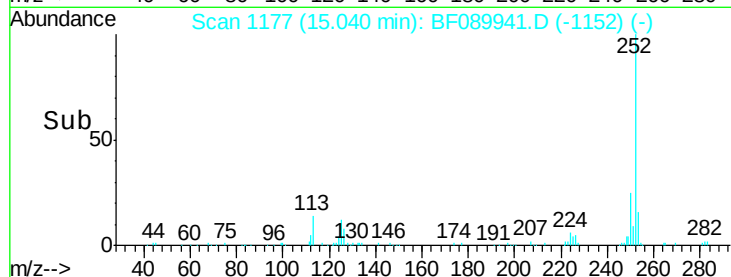
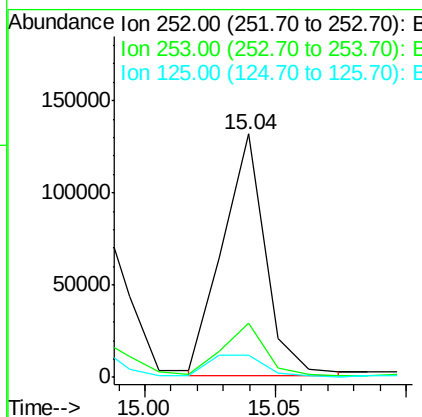
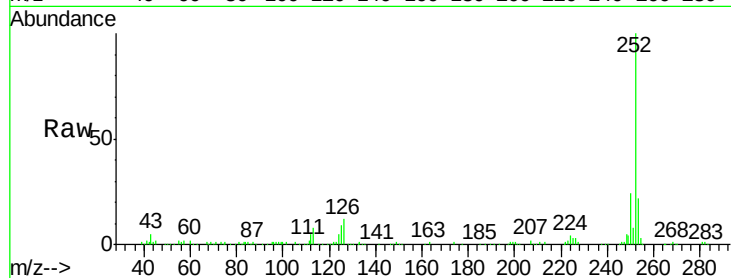




#89
Benzo(a)pyrene
Concen: 5.68 ng
RT: 15.04 min Scan# 1177
Delta R.T. -0.01 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Instrument :
BNA_F
ClientSampleId :
AST-6RE

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.3	6.3	9.5



#91
Benzo(g,h,i)perylene
Concen: 4.71 ng
RT: 16.67 min Scan# 1320
Delta R.T. -0.02 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	21.5	16.4	24.6

