

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071516\
 Data File : BF089045.D
 Acq On : 16 Jul 2016 7:02
 Operator : UM/SJ
 Sample : H3972-06DL 8X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 18 00:57:46 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	6.67	152	67448	20.00	ng	-0.03
21) Naphthalene-d8	7.96	136	272985	20.00	ng	-0.03
38) Acenaphthene-d10	9.71	164	106974	20.00	ng	-0.03
63) Phenanthrene-d10	11.19	188	159976	20.00	ng	-0.03
75) Chrysene-d12	13.81	240	113976	20.00	ng	-0.05
86) Perylene-d12	15.18	264	88627	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.26	112	57638	12.81	ng	-0.03
7) Phenol-d6	6.32	99	78138	13.44	ng	-0.03
23) Nitrobenzene-d5	7.23	82	43210	8.29	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	8447	8.50	ng	-0.05
44) 2-Fluorobiphenyl	9.04	172	86311	12.74	ng	-0.03
78) Terphenyl-d14	12.77	244	49256	9.63	ng	-0.03

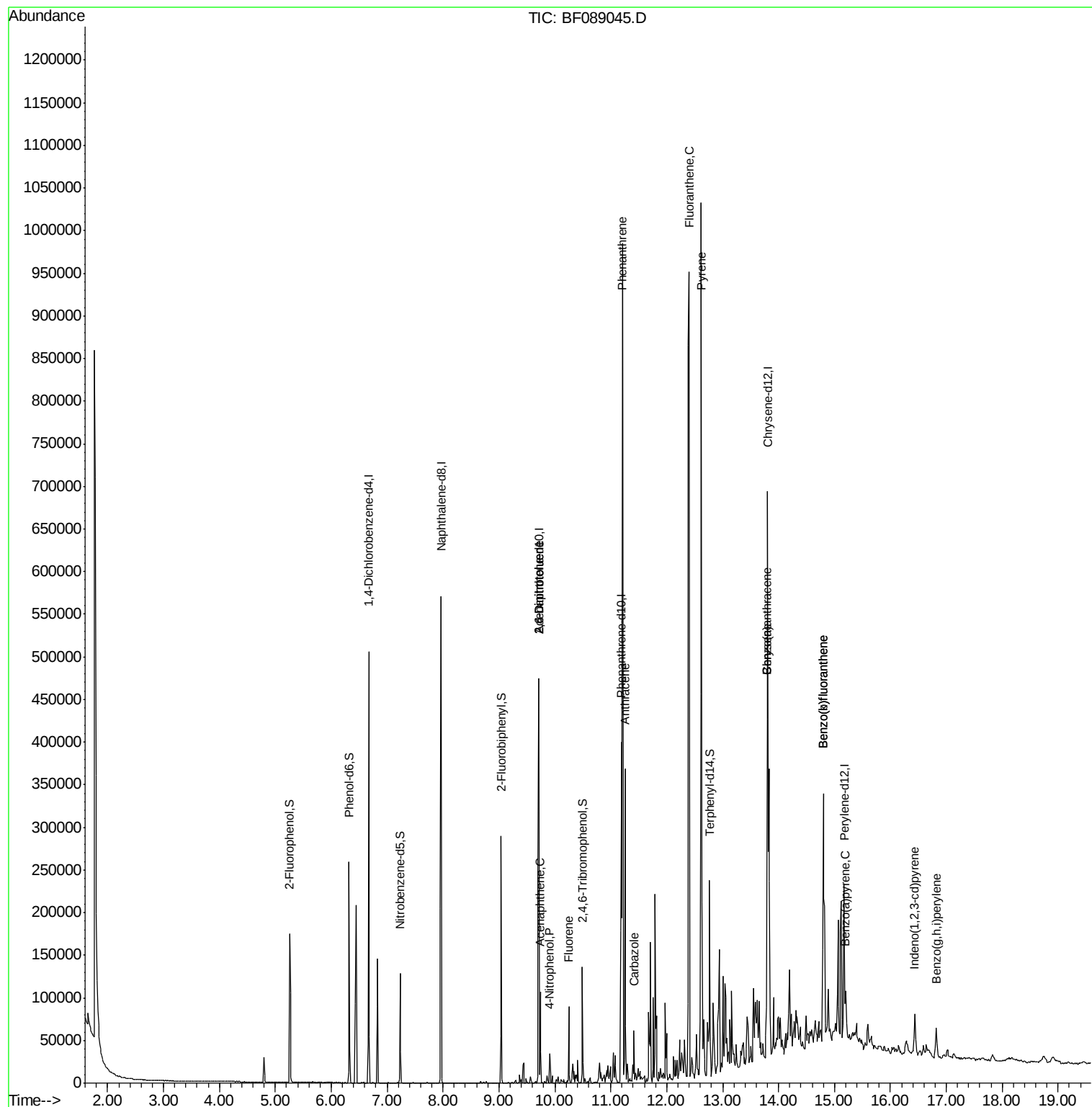
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
50) 2,6-Dinitrotoluene	9.71	165	13412	7.94	ng	# 37
51) Acenaphthene	9.74	154	24838	3.66	ng	96
55) 4-Nitrophenol	9.91	139	4971	3.05	ng	# 5
56) 2,4-Dinitrotoluene	9.71	165	13412	6.07	ng	# 36
57) Fluorene	10.25	166	22526	3.29	ng	100
70) Phenanthrene	11.21	178	330849	37.83	ng	99
71) Anthracene	11.26	178	132954	15.29	ng	98
72) Carbazole	11.42	167	20797	2.54	ng	100
74) Fluoranthene	12.40	202	565059	63.74	ng	92
77) Pyrene	12.62	202	415705	43.02	ng	99
80) Benzo(a)anthracene	13.79	228	189815	25.86	ng	99
82) Chrysene	13.79	228	189815	26.14	ng	96
85) Indeno(1,2,3-cd)pyrene	16.43	276	32551	5.83	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	178895	32.18	ng	# 95
88) Benzo(k)fluoranthene	14.80	252	178895	36.96	ng	99
89) Benzo(a)pyrene	15.20	252	20796	4.42	ng	95
91) Benzo(a,h,i)perylene	16.82	276	27716	6.81	ng	95

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.67 min Scan# 445

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

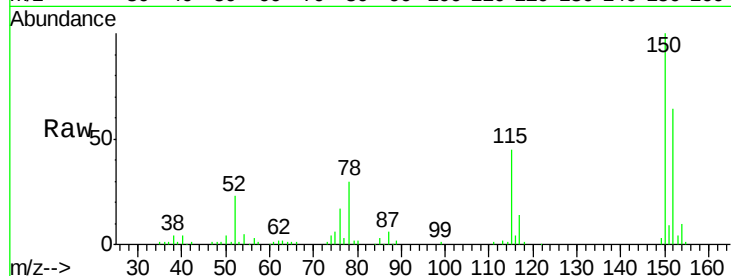
Tot Ion:152 Resp: 67448

Ion Ratio Lower Upper

152 100

150 155.8 123.8 185.6

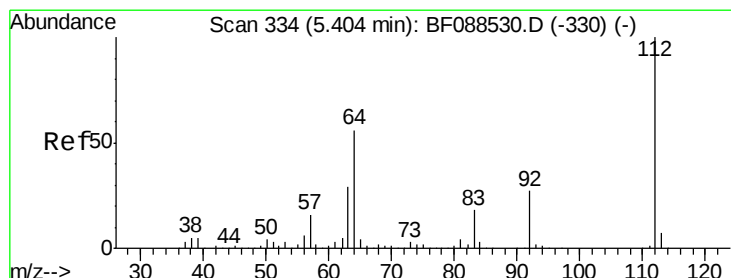
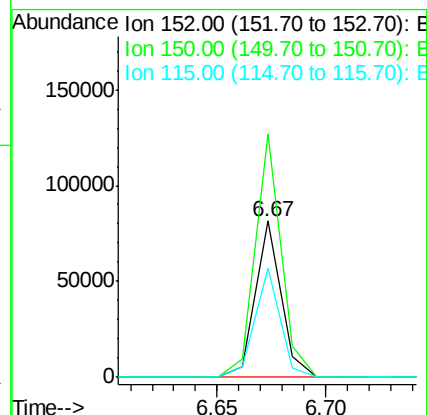
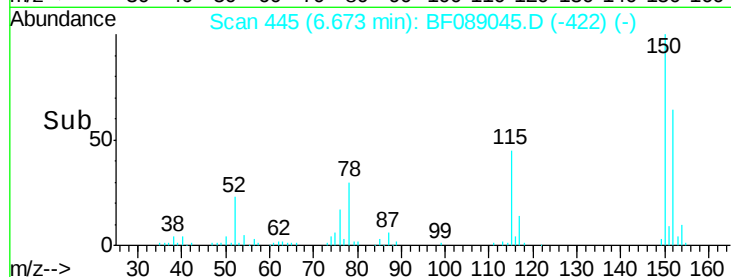
115 69.6 39.6 59.4#



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: 12.81 ng

RT: 5.26 min Scan# 321

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

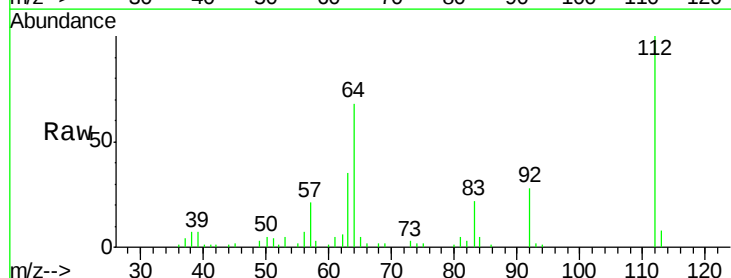
Tgt Ion:112 Resp: 57638

Ion Ratio Lower Upper

112 100

64 67.6 42.2 63.2#

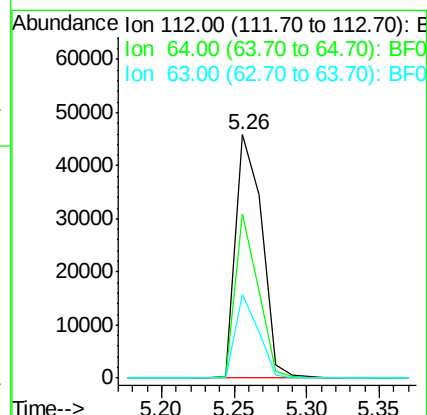
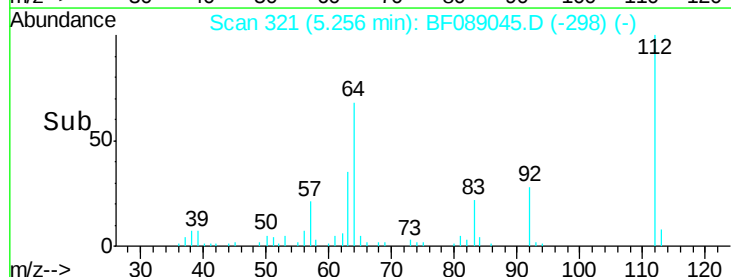
63 34.6 21.8 32.8#



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: 13.44 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

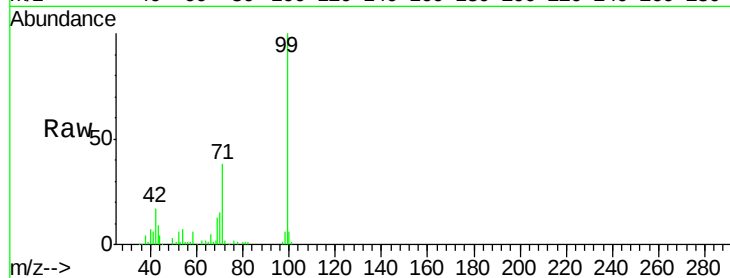
Tot Ion: 99 Resp: 78138

Ion Ratio Lower Upper

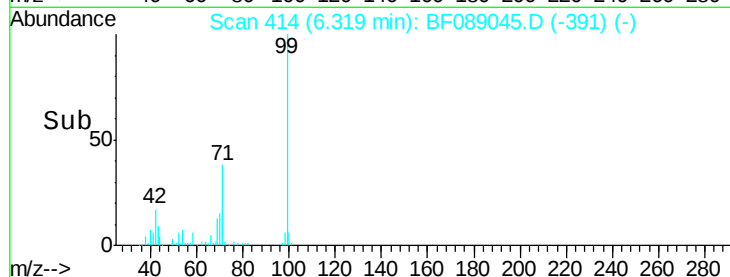
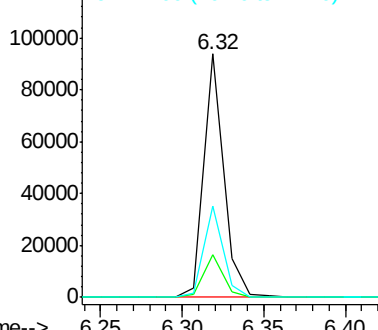
99 100

42 17.3 12.2 18.2

71 37.5 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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Tgt Ion: 136 Resp: 272985

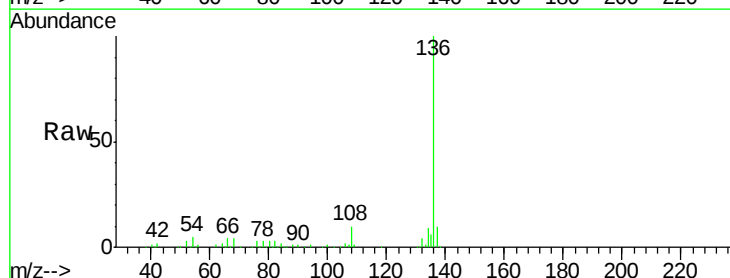
Ion Ratio Lower Upper

136 100

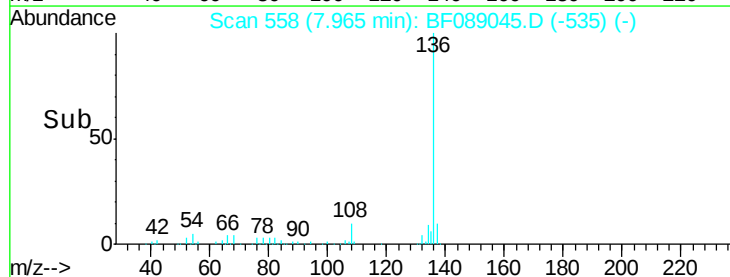
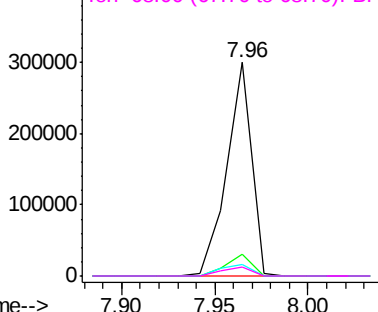
137 10.5 9.1 13.7

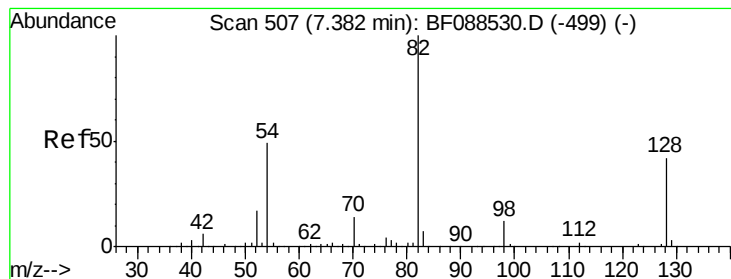
54 5.4 6.6 10.0#

68 4.4 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: 8.29 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.05 min

Lab File: BF089045.D

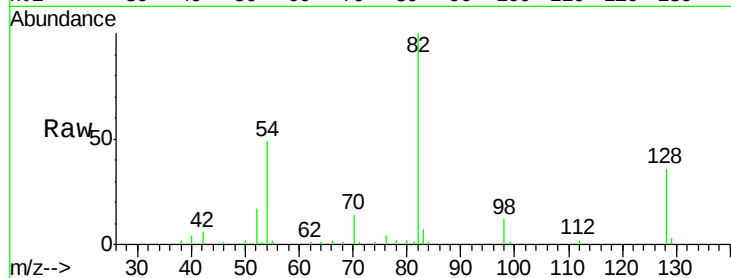
Acq: 16 Jul 2016 7:02

Instrument :

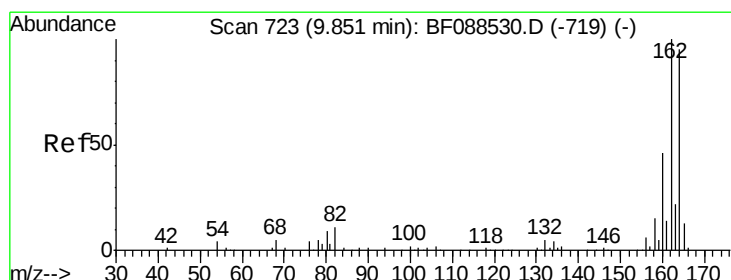
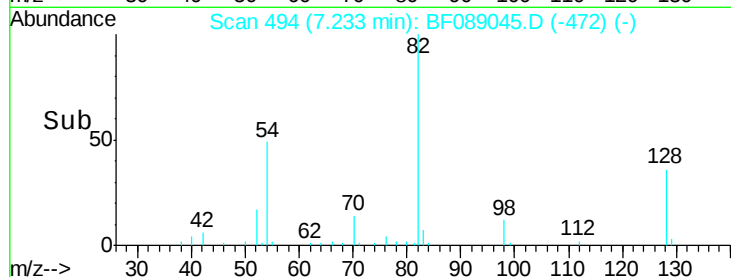
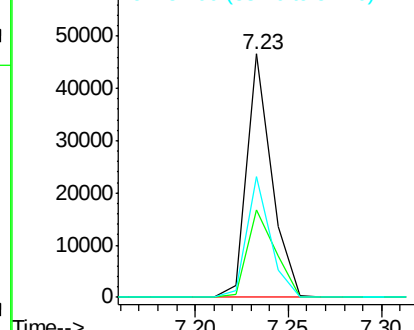
BNA_F

ClientSampleId :

Tot Ion:	82	Resp:	43210
Ion	Ratio	Lower	Upper
82	100		
128	35.8	35.9	53.9#
54	49.4	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



#38

Acenaphthene-d10

Concen: 20.00 ng

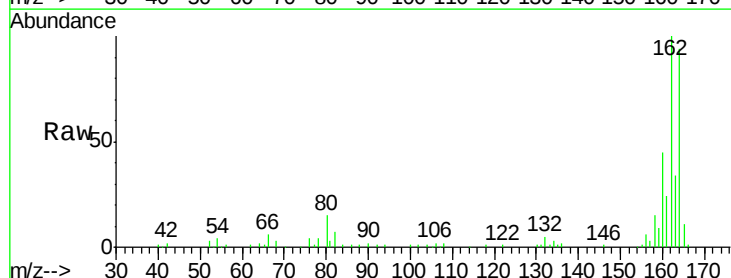
RT: 9.71 min Scan# 711

Delta R.T. -0.03 min

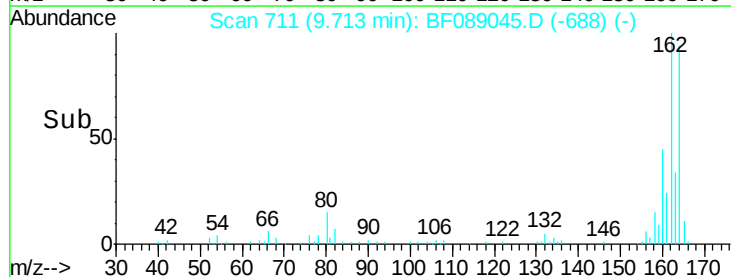
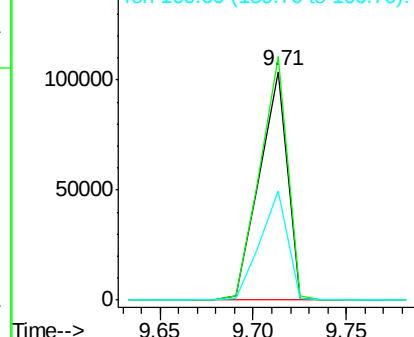
Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Tgt Ion:	164	Resp:	106974
Ion	Ratio	Lower	Upper
164	100		
162	106.4	85.4	128.2
160	47.9	39.5	59.3



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

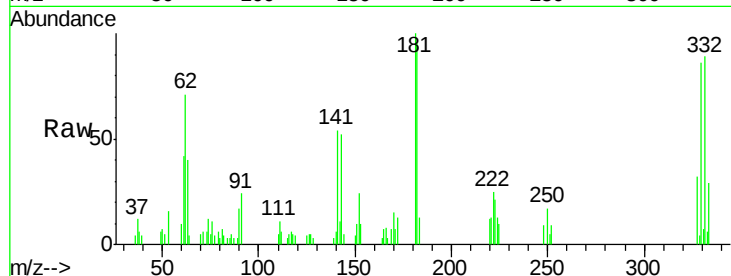




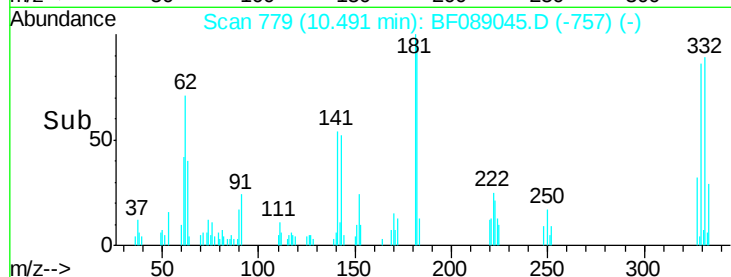
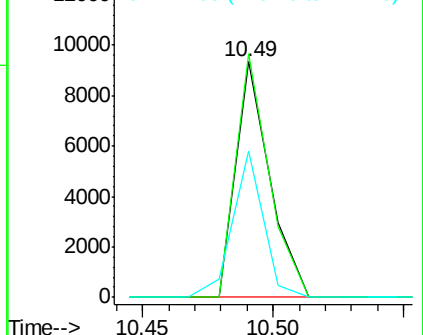
#41
 2,4,6-Tribromophenol
 Concen: 8.50 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.05 min
 Lab File: BF089045.D
 Acq: 16 Jul 2016 7:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	101.1	0.0	0.0#
141	56.8	0.0	0.0#

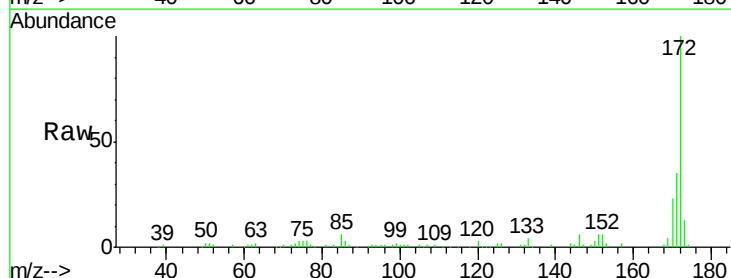


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

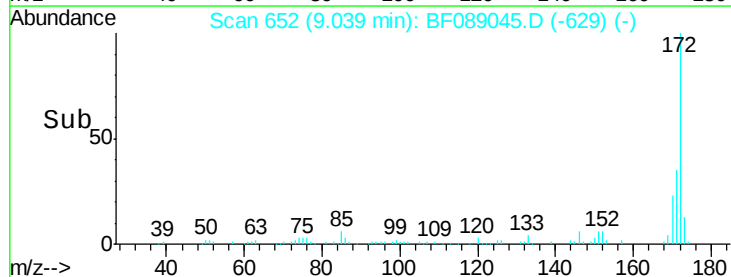
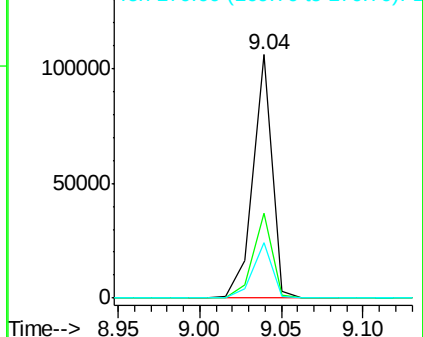


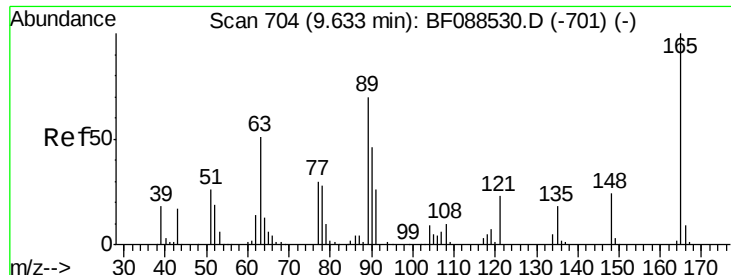
#44
 2-Fluorobiphenyl
 Concen: 12.74 ng
 RT: 9.04 min Scan# 652
 Delta R.T. -0.03 min
 Lab File: BF089045.D
 Acq: 16 Jul 2016 7:02

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.6	43.0
170	22.9	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

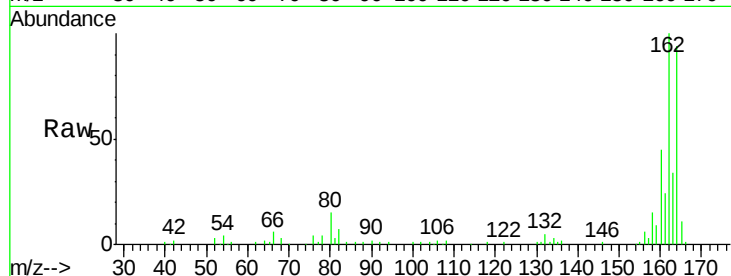




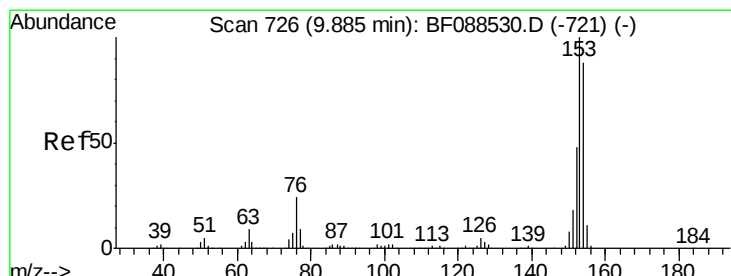
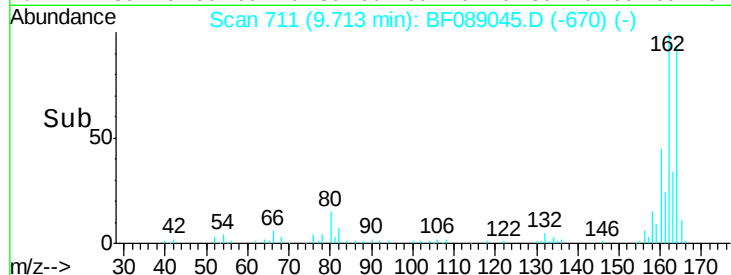
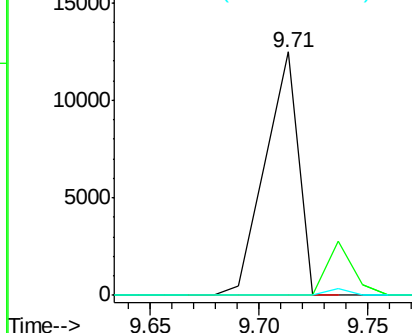
#50
2,6-Dinitrotoluene
Concen: 7.94 ng
RT: 9.71 min Scan# 711
Delta R.T. 0.17 min
Lab File: BF089045.D
Acq: 16 Jul 2016 7:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 13412
Ion Ratio Lower Upper
165 100
63 0.0 28.1 42.1#
89 0.0 32.2 48.2#

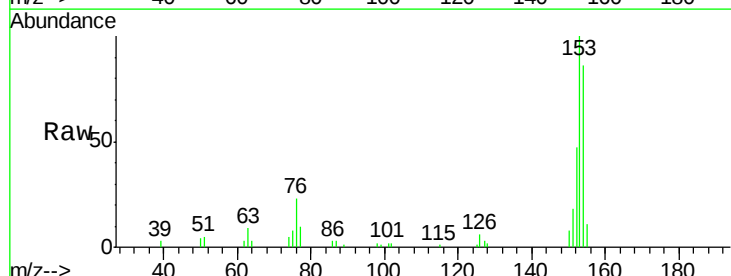


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

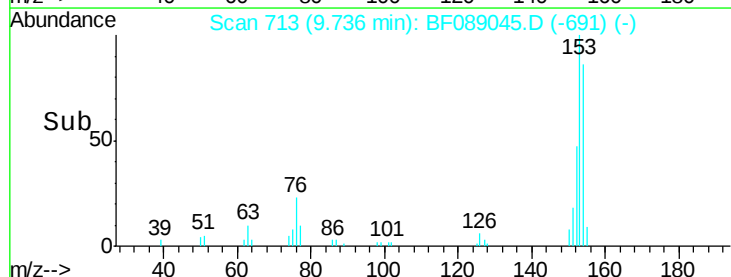
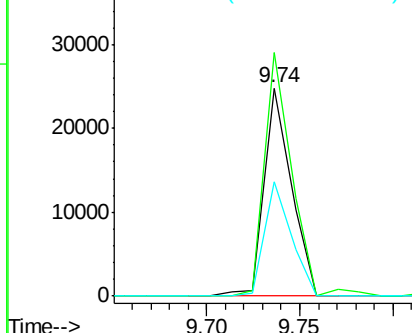


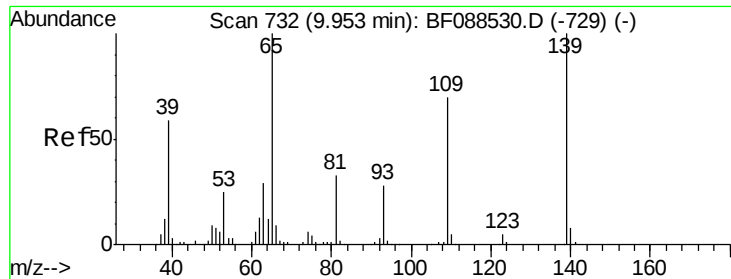
#51
Acenaphthene
Concen: 3.66 ng
RT: 9.74 min Scan# 713
Delta R.T. -0.05 min
Lab File: BF089045.D
Acq: 16 Jul 2016 7:02

Tgt Ion:154 Resp: 24838
Ion Ratio Lower Upper
154 100
153 116.9 89.5 134.3
152 54.7 42.7 64.1



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#55

4-Nitrophenol

Concen: 3.05 ng

RT: 9.91 min Scan# 728

Delta R.T. 0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

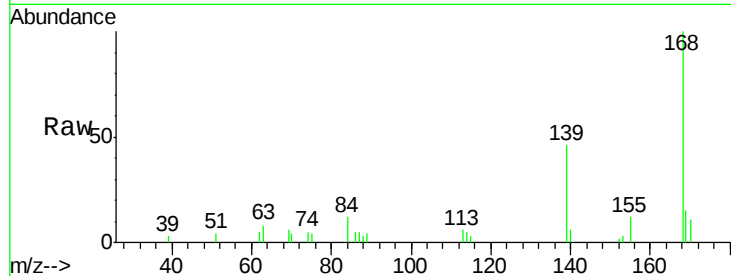
Tot Ion:139 Resp: 4971

Ion Ratio Lower Upper

139 100

109 0.0 48.9 88.9#

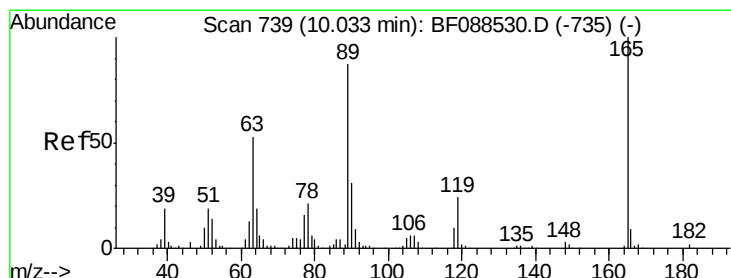
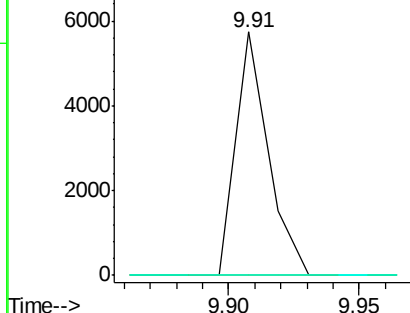
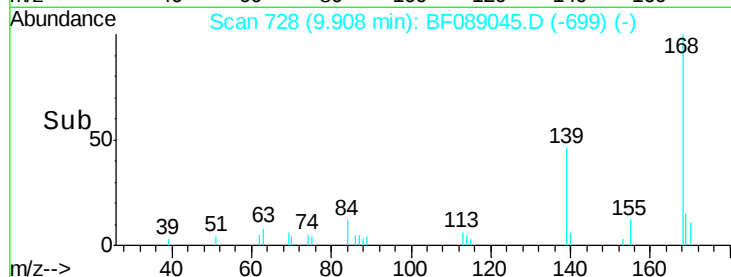
65 0.0 84.9 124.9#



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: 6.07 ng

RT: 9.71 min Scan# 711

Delta R.T. -0.23 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Tgt Ion:165 Resp: 13412

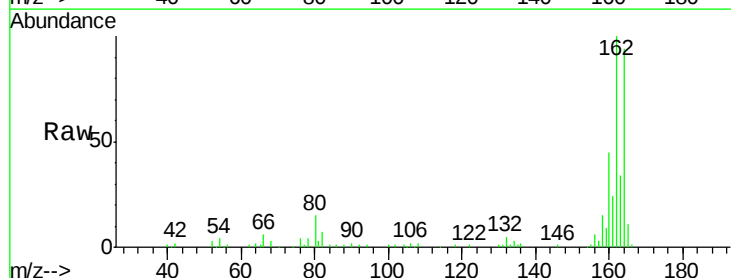
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 0.0 41.1 61.7#

182 0.0 2.0 3.0#

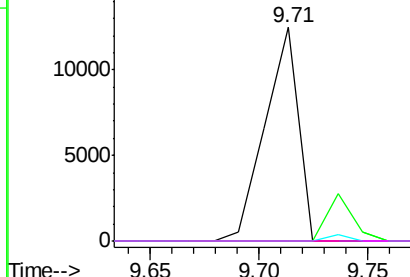
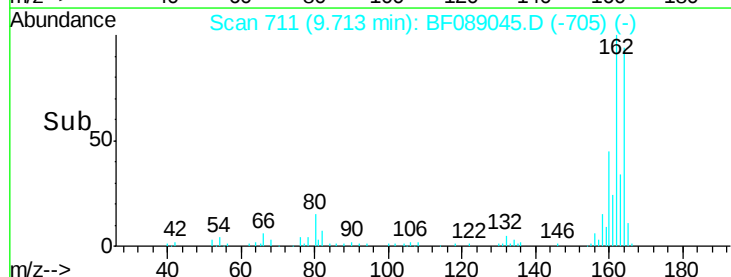


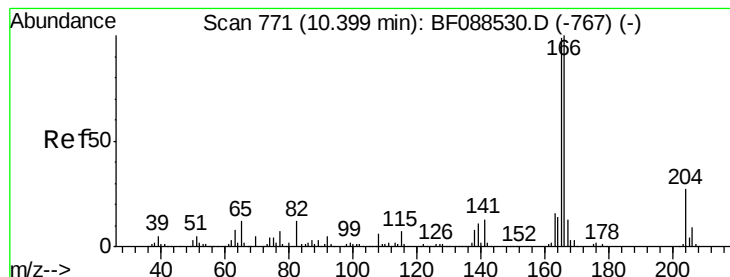
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E





#57

Fluorene

Concen: 3.29 ng

RT: 10.25 min Scan# 758

Delta R.T. -0.05 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

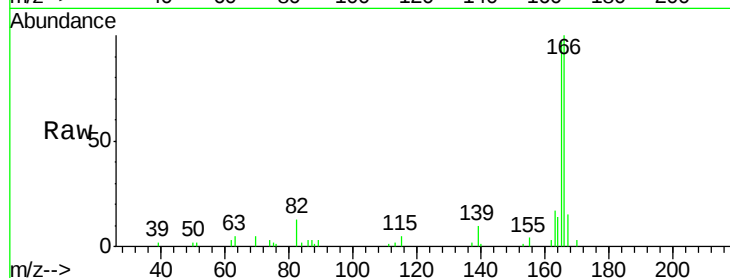
Tot Ion:166 Resp: 22526

Ion Ratio Lower Upper

166 100

165 97.4 77.8 116.8

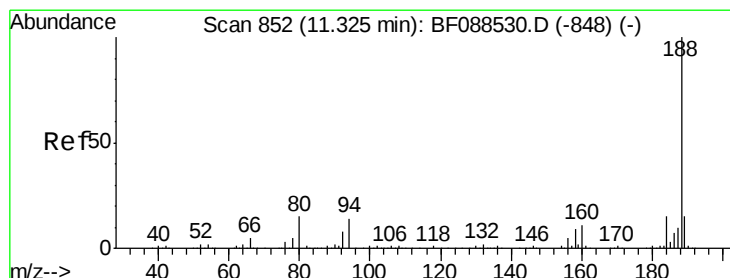
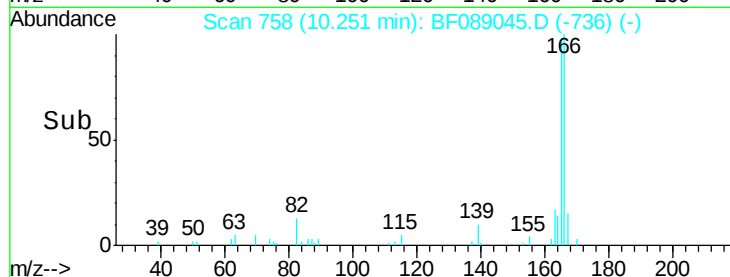
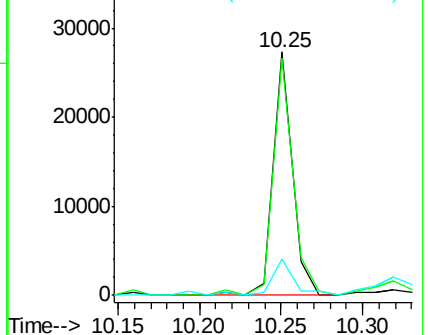
167 15.0 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.19 min Scan# 840

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

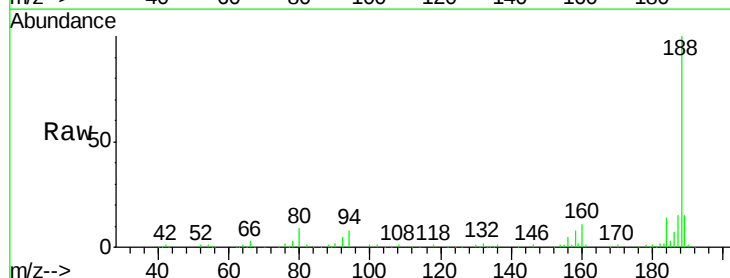
Tgt Ion:188 Resp: 159976

Ion Ratio Lower Upper

188 100

94 7.9 9.0 13.6#

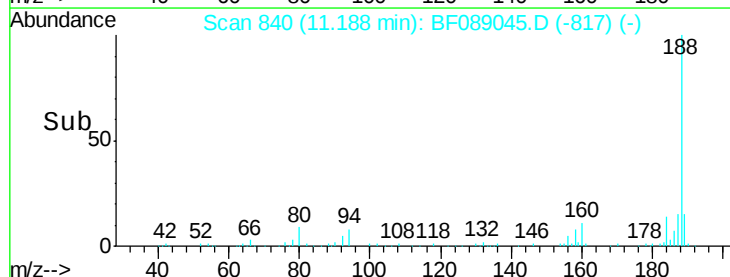
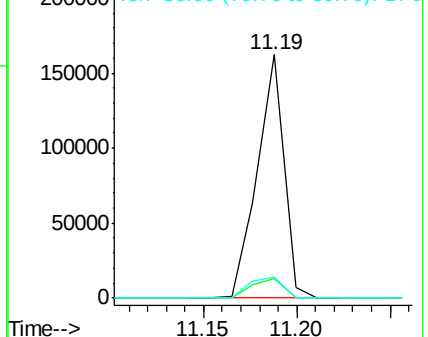
80 8.8 10.0 15.0#

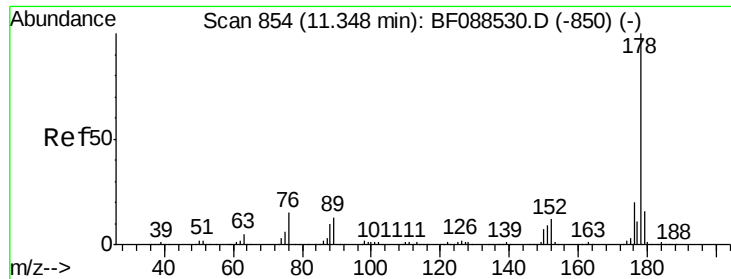


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

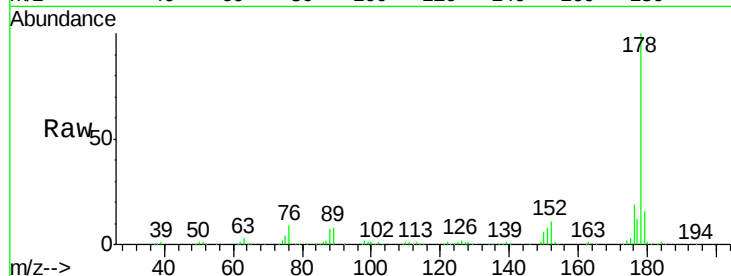




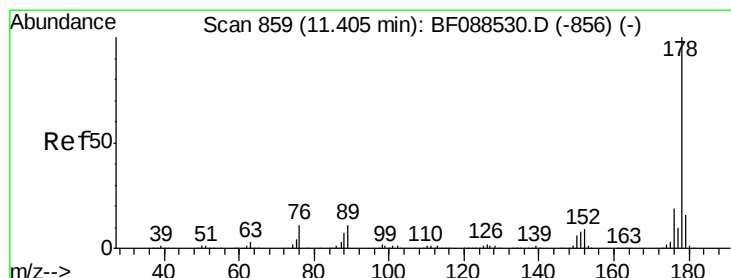
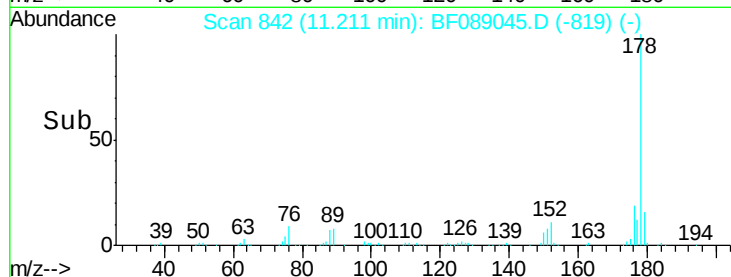
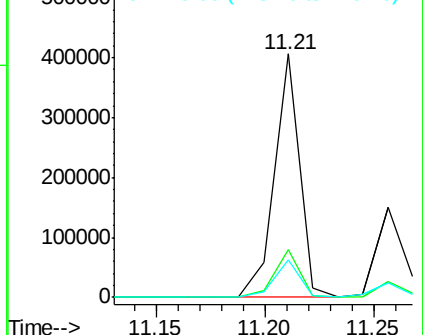
#70
Phenanthrene
Concen: 37.83 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.03 min
Lab File: BF089045.D
Acq: 16 Jul 2016 7:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 330849
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.6
179 15.6 13.0 19.4

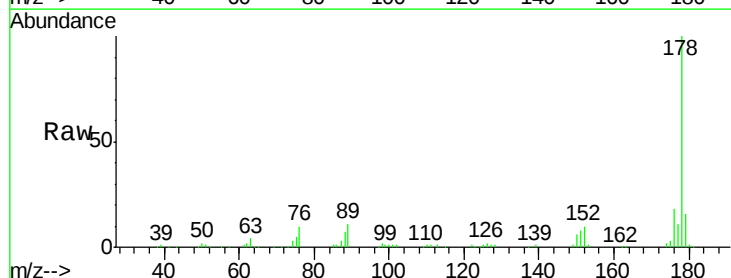


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

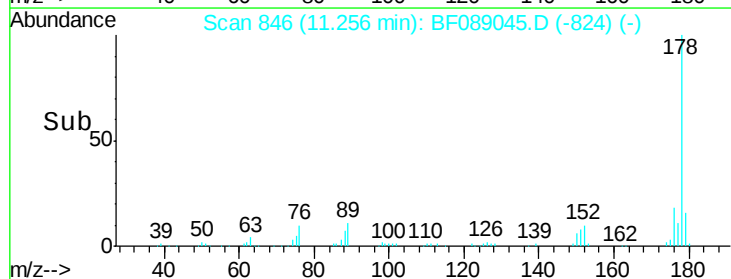
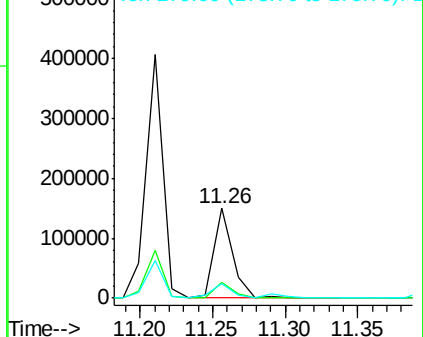


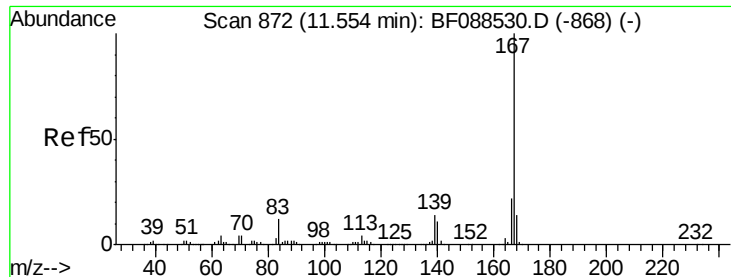
#71
Anthracene
Concen: 15.29 ng
RT: 11.26 min Scan# 846
Delta R.T. -0.05 min
Lab File: BF089045.D
Acq: 16 Jul 2016 7:02

Tgt Ion:178 Resp: 132954
Ion Ratio Lower Upper
178 100
176 18.2 15.6 23.4
179 15.7 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





#72

Carbazole

Concen: 2.54 ng

RT: 11.42 min Scan# 860

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

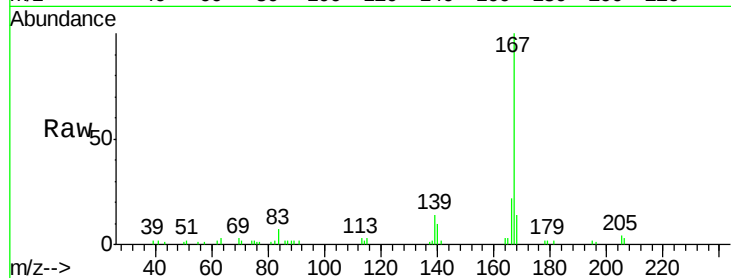
Tot Ion:167 Resp: 20797

Ion Ratio Lower Upper

167 100

166 22.3 17.8 26.6

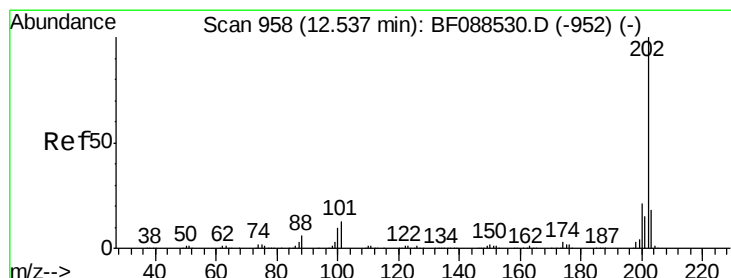
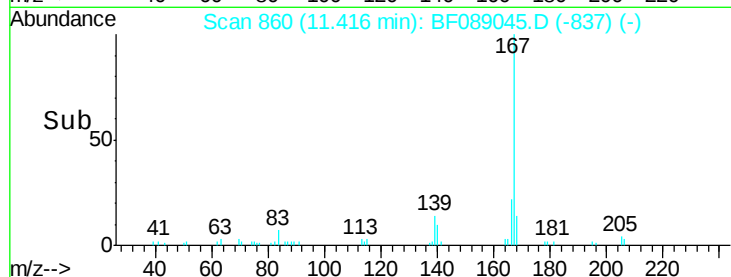
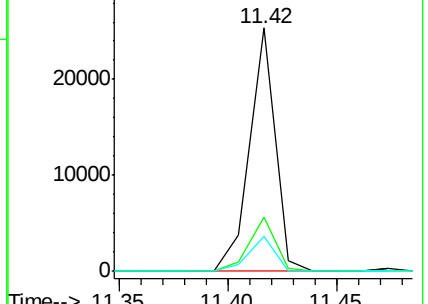
139 14.1 11.2 16.8



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 63.74 ng

RT: 12.40 min Scan# 946

Delta R.T. -0.02 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

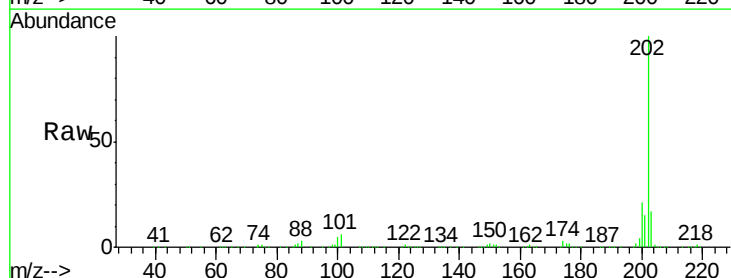
Tgt Ion:202 Resp: 565059

Ion Ratio Lower Upper

202 100

101 6.5 0.0 33.1

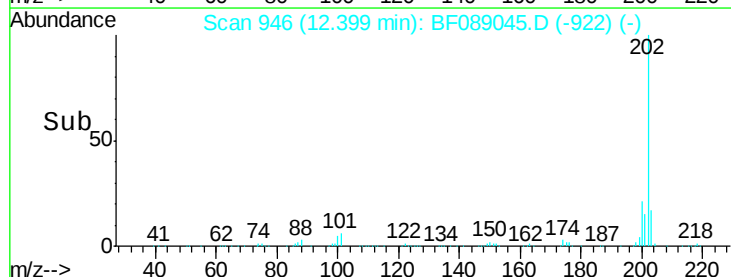
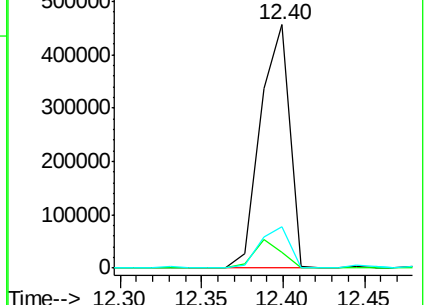
203 17.2 0.0 38.1

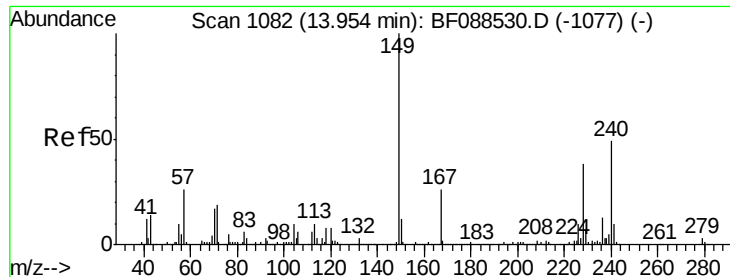


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.05 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

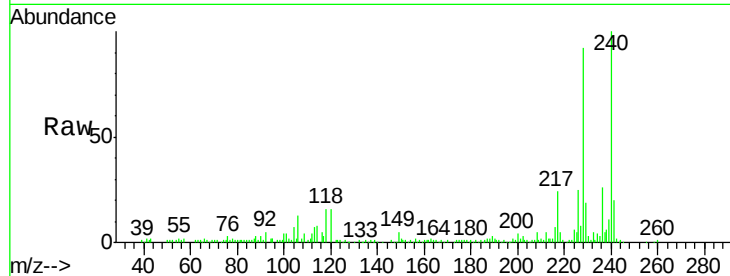
Tot Ion:240 Resp: 113976

Ion Ratio Lower Upper

240 100

120 16.2 6.8 10.2#

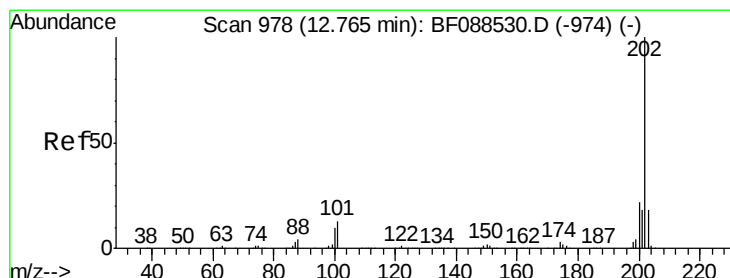
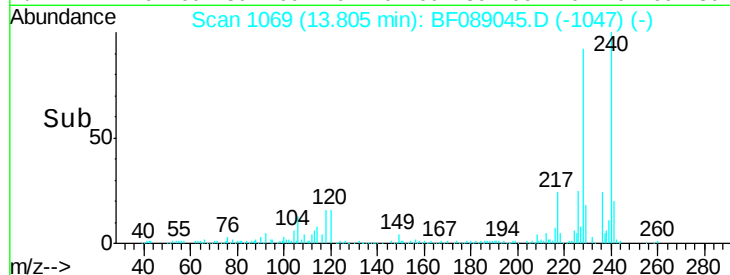
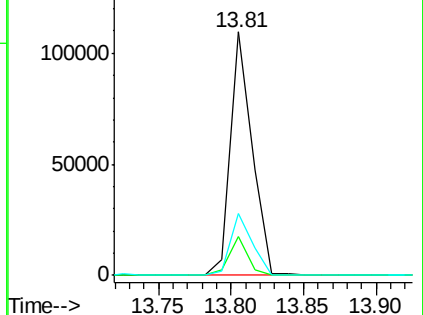
236 25.5 20.2 30.2



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 43.02 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

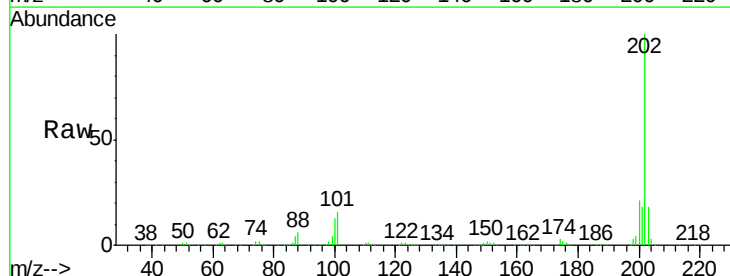
Tgt Ion:202 Resp: 415705

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.2

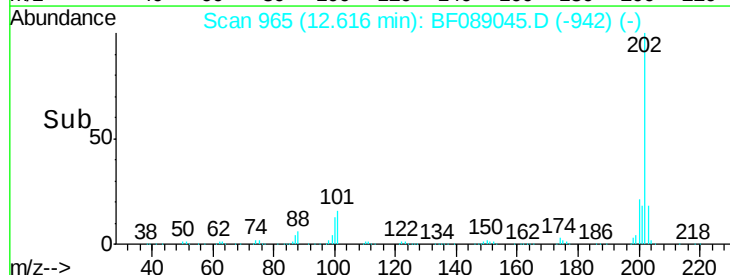
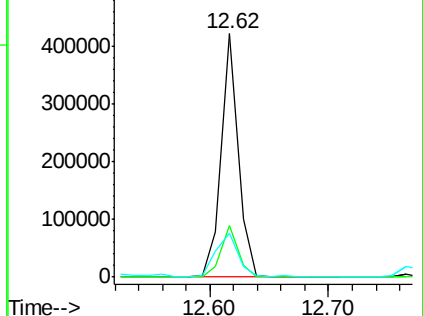
203 18.3 14.5 21.7

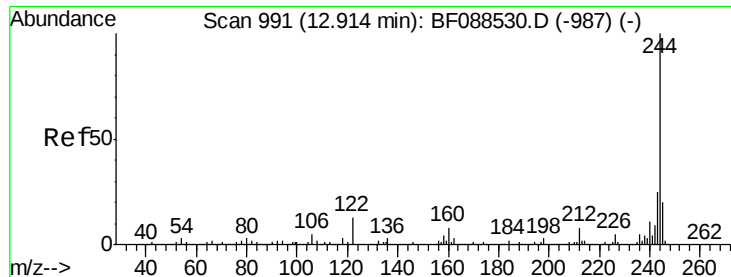


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 9.63 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

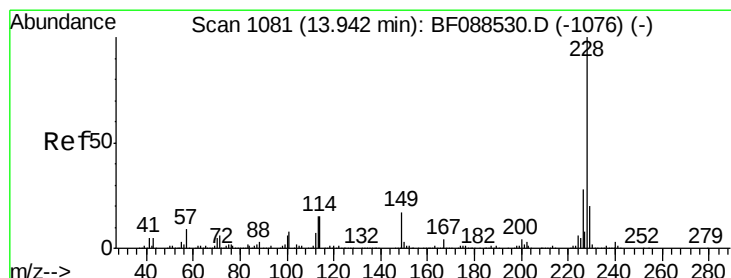
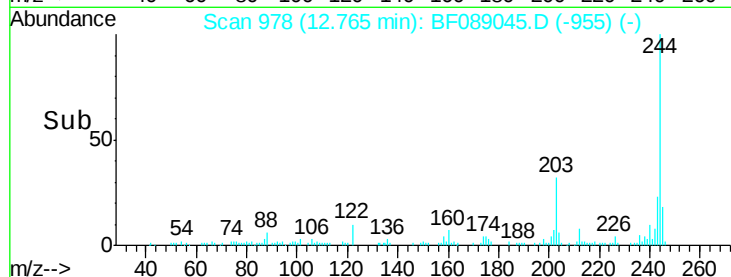
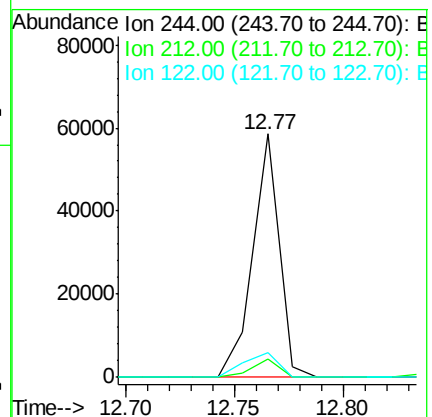
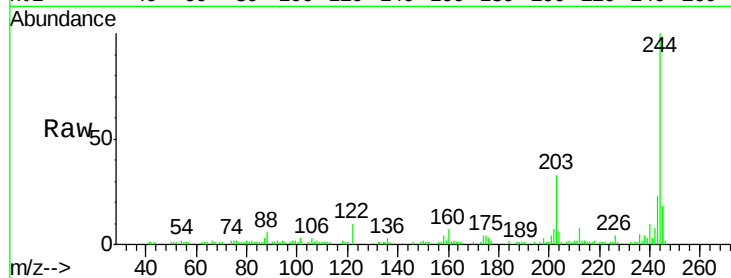
Tot Ion:244 Resp: 49256

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

122 10.2 11.2 16.8#



#80

Benzo(a)anthracene

Concen: 25.86 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.05 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

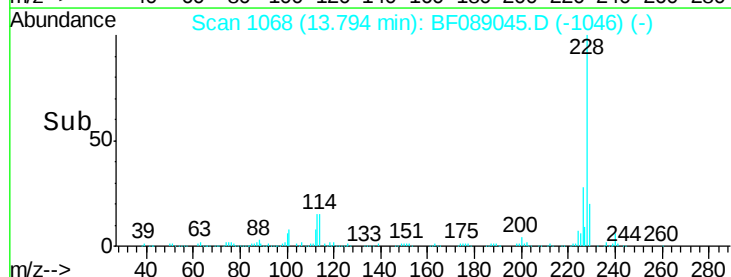
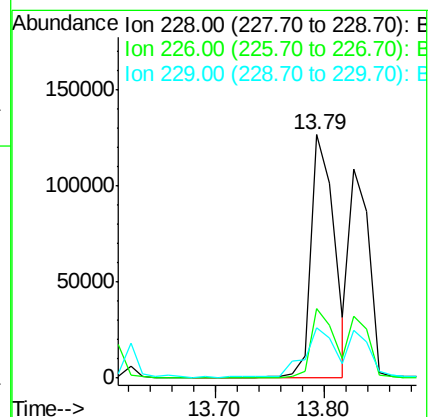
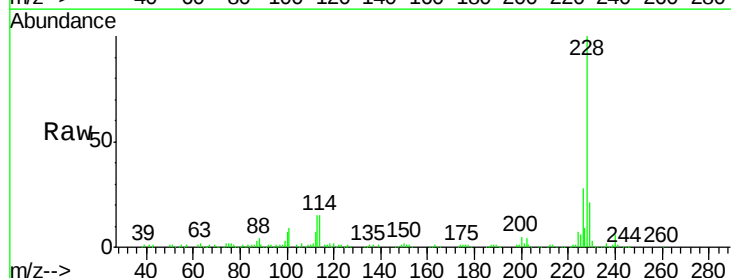
Tgt Ion:228 Resp: 189815

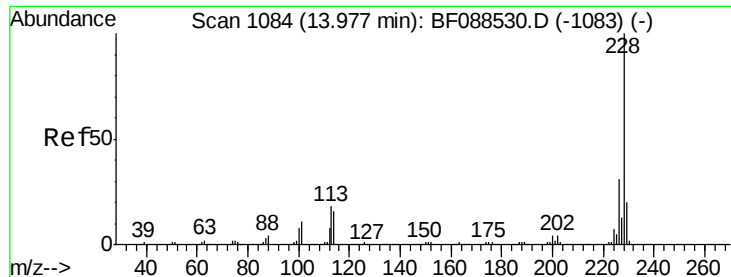
Ion Ratio Lower Upper

228 100

226 28.3 22.3 33.5

229 20.7 16.0 24.0





#82

Chrysene

Concen: 26.14 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.08 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

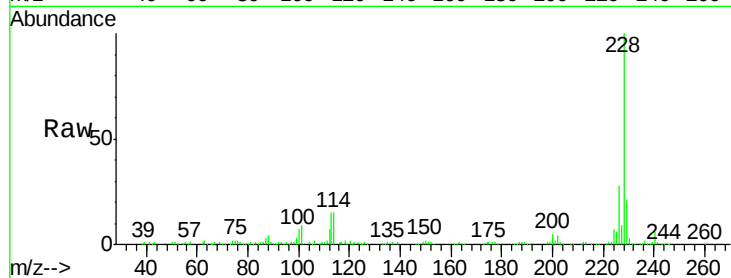
Tot Ion:228 Resp: 189815

Ion Ratio Lower Upper

228 100

226 28.3 25.4 38.2

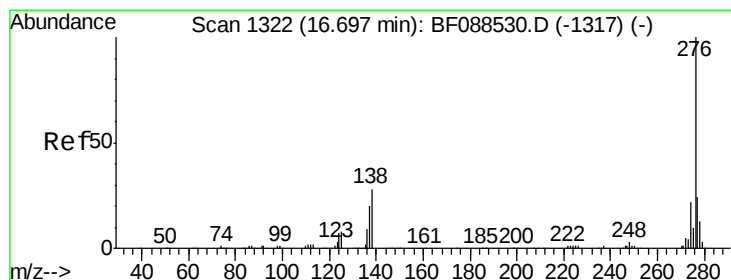
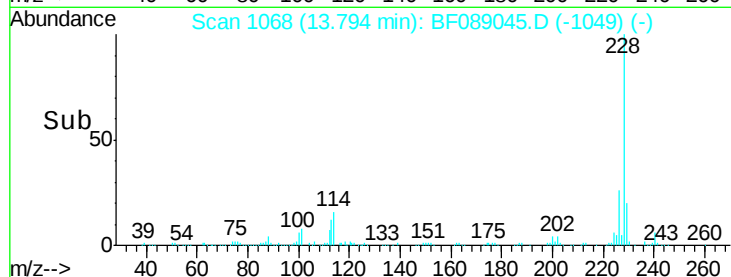
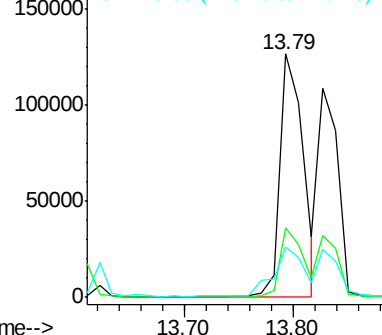
229 20.7 16.3 24.5



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.83 ng

RT: 16.43 min Scan# 1299

Delta R.T. -0.07 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

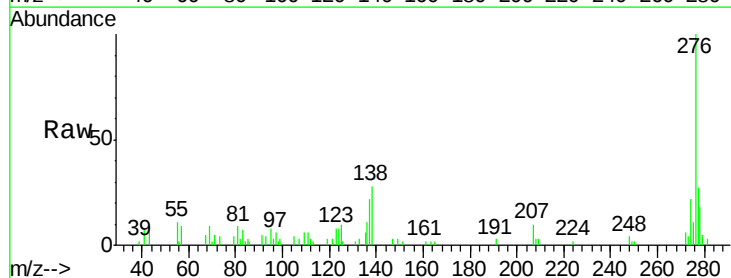
Tgt Ion:276 Resp: 32551

Ion Ratio Lower Upper

276 100

138 28.8 0.0 0.0#

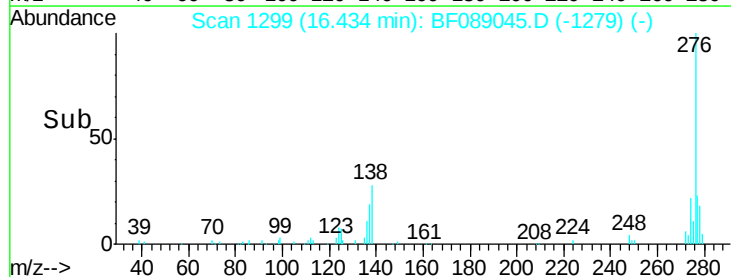
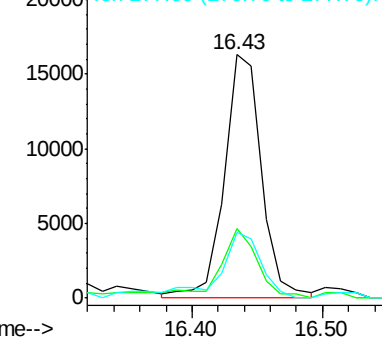
277 32.9 0.0 0.0#

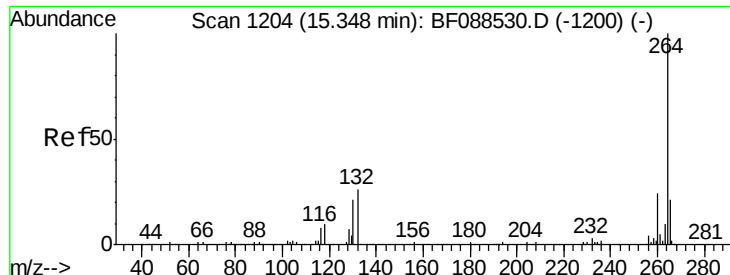


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

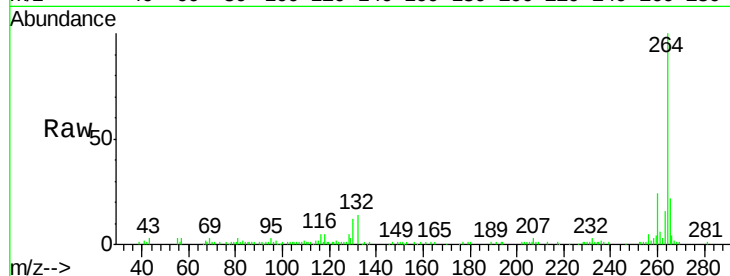




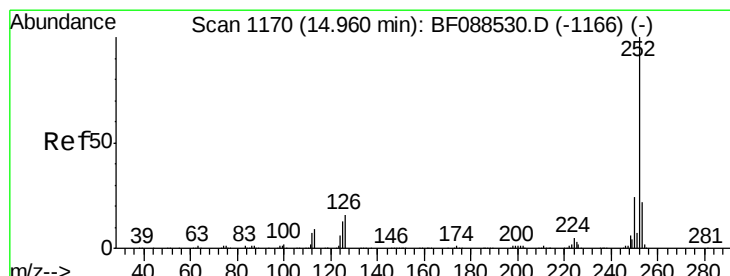
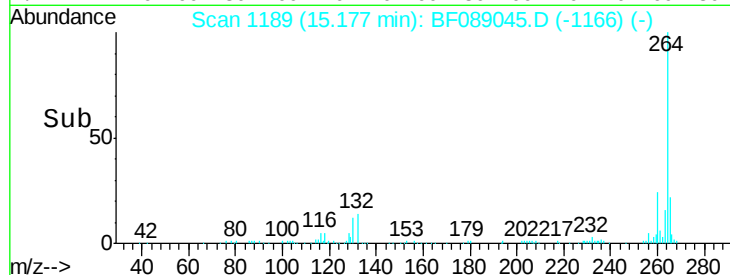
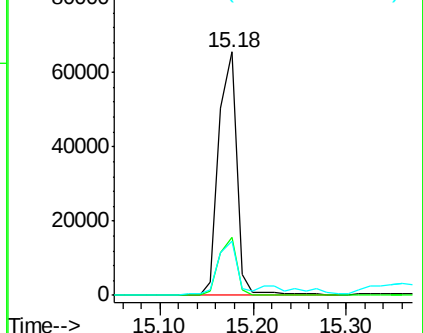
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.18 min Scan# 1189
Delta R.T. -0.03 min
Lab File: BF089045.D
Acq: 16 Jul 2016 7:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 88627
Ion Ratio Lower Upper
264 100
260 23.7 19.2 28.8
265 22.1 16.9 25.3

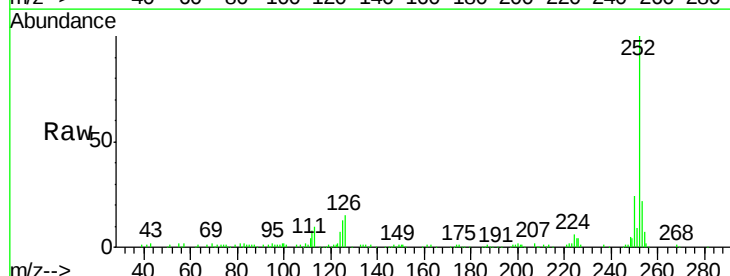


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

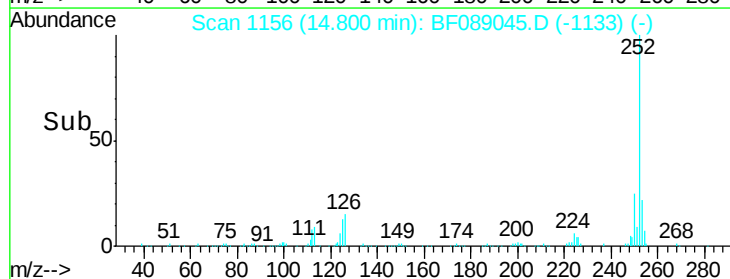
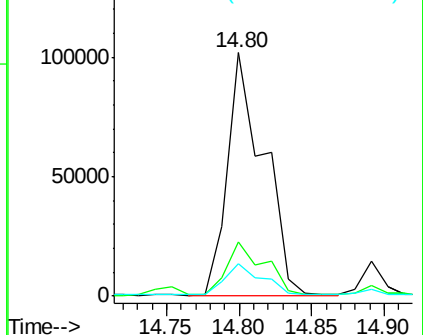


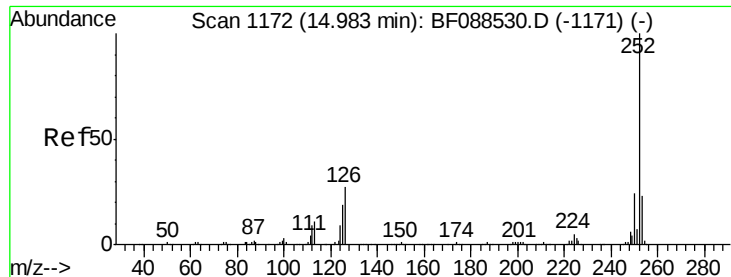
#87
Benzo(b)fluoranthene
Concen: 32.18 ng
RT: 14.80 min Scan# 1156
Delta R.T. -0.03 min
Lab File: BF089045.D
Acq: 16 Jul 2016 7:02

Tgt Ion:252 Resp: 178895
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.2
125 13.4 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: 36.96 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.07 min

Lab File: BF089045.D

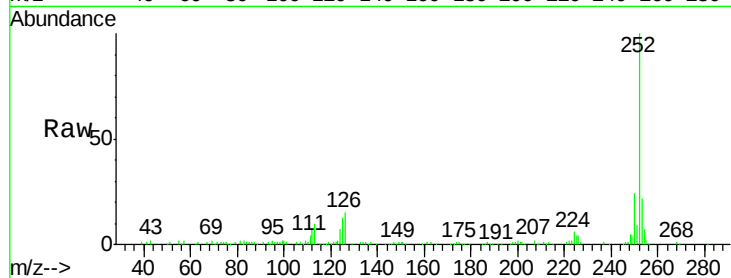
Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

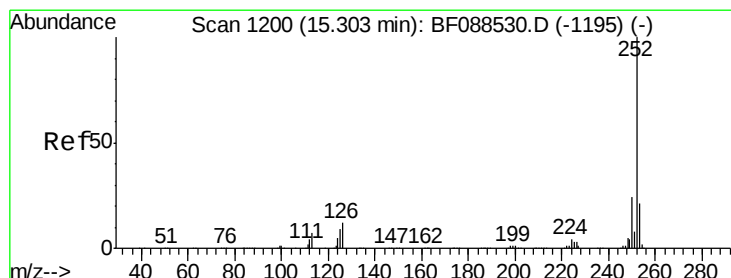
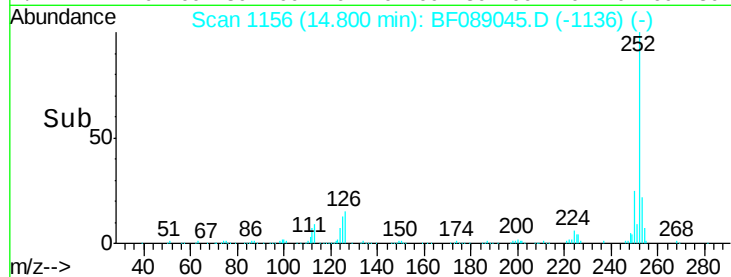
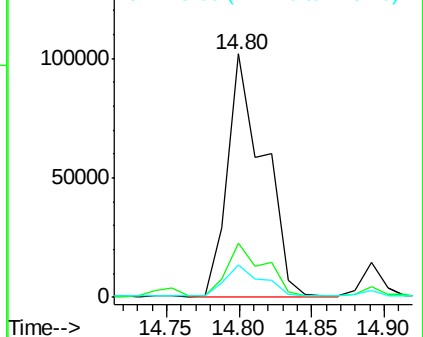
Tot Ion:252	Resp:	178895
Ion Ratio	Lower	Upper
252	100	
253	22.4	18.0 27.0
125	13.4	11.2 16.8



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: 4.42 ng

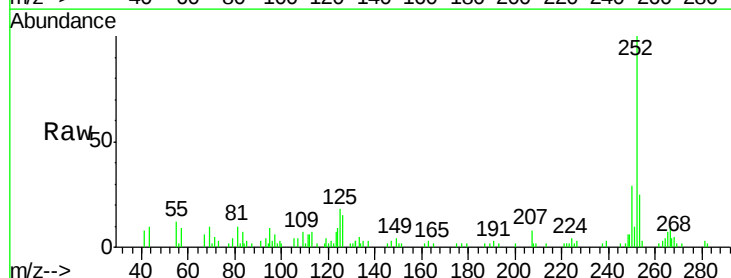
RT: 15.20 min Scan# 1191

Delta R.T. 0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

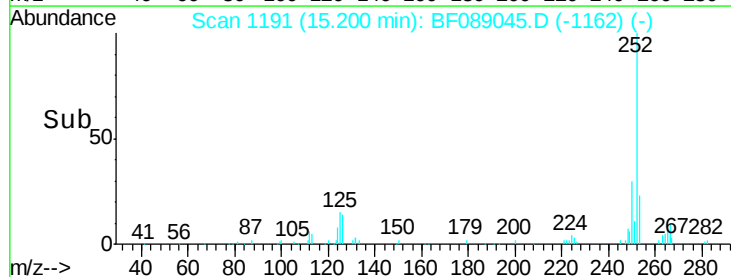
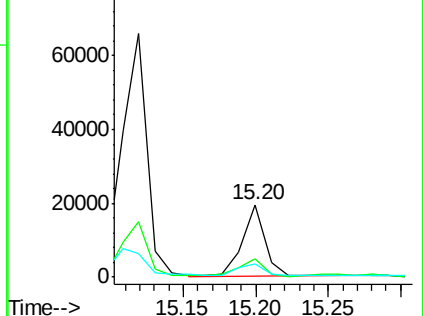
Tgt Ion:252	Resp:	20796
Ion Ratio	Lower	Upper
252	100	
253	25.1	17.9 26.9
125	17.9	12.5 18.7

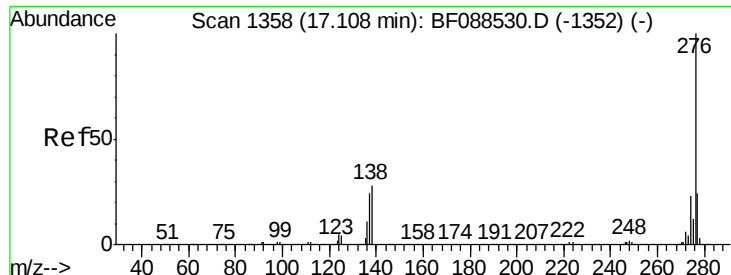


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

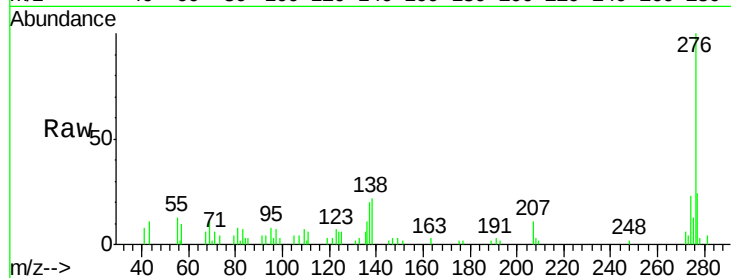




#91
 Benzo(a,h,i)perylene
 Concen: 6.81 ng
 RT: 16.82 min Scan# 1333
 Delta R.T. -0.07 min
 Lab File: BF089045.D
 Acq: 16 Jul 2016 7:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.9	28.3
138	22.2	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

