

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071416\
 Data File : BF089014.D
 Acq On : 15 Jul 2016 5:19
 Operator : UM/SJ
 Sample : H3972-10
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 15 06:44:45 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	6.68	152	44358	20.00	ng	-0.02
21) Naphthalene-d8	7.98	136	178165	20.00	ng	-0.02
38) Acenaphthene-d10	9.72	164	71951	20.00	ng	-0.02
63) Phenanthrene-d10	11.20	188	124744	20.00	ng	-0.02
75) Chrysene-d12	13.83	240	89172	20.00	ng	-0.02
86) Perylene-d12	15.20	264	65432	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.29	112	334088	112.88	ng	0.00
7) Phenol-d6	6.35	99	496821	129.91	ng	0.00
23) Nitrobenzene-d5	7.26	82	236882	69.68	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	69843	104.53	ng	-0.02
44) 2-Fluorobiphenyl	9.05	172	384210	84.35	ng	-0.02
78) Terphenyl-d14	12.79	244	352499	88.05	ng	-0.01

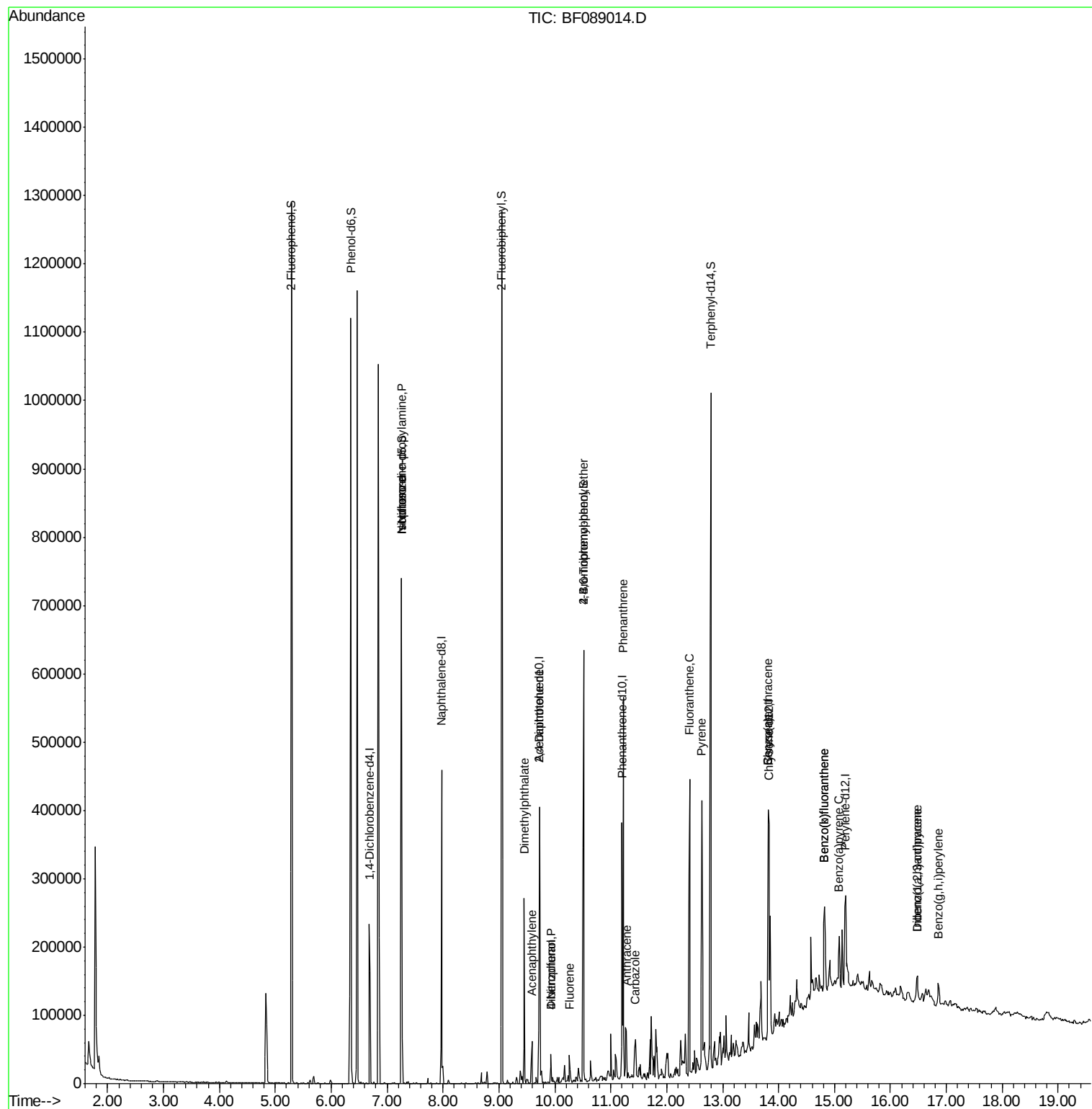
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.26	70	32424	12.62	ng	# 75
25) Isophorone	7.26	82	194443	30.88	ng	# 65
48) Acenaphthylene	9.59	152	32614	4.38	ng	100
49) Dimethylphthalate	9.45	163	99890	19.49	ng	99
54) Dibenzofuran	9.93	168	16371	2.74	ng	94
55) 4-Nitrophenol	9.93	139	6499	5.92	ng	# 5
56) 2,4-Dinitrotoluene	9.72	165	9625	6.48	ng	# 36
57) Fluorene	10.26	166	11713	2.55	ng	# 98
66) 4-Bromophenyl-phenylether	10.51	248	5940	4.73	ng	# 1
70) Phenanthrene	11.22	178	182752	26.80	ng	97
71) Anthracene	11.28	178	42261	6.23	ng	100
72) Carbazole	11.43	167	15904	2.49	ng	98
74) Fluoranthene	12.41	202	218882	31.66	ng	92
77) Pyrene	12.63	202	173262	22.92	ng	99
80) Benzo(a)anthracene	13.82	228	86174	15.01	ng	# 93
82) Chrysene	13.82	228	86174	15.17	ng	98
85) Indeno(1,2,3-cd)pyrene	16.48	276	25427	5.82	ng	# 100
87) Benzo(b)fluoranthene	14.82	252	86078	20.97	ng	# 95
88) Benzo(k)fluoranthene	14.82	252	86078	24.09	ng	99
89) Benzo(a)pyrene	15.09	252	29432	8.47	ng	94
90) Dibenzo(a,h)anthracene	16.48	278	8775	3.02	ng	# 72
91) Benzo(g,h,i)perylene	16.86	276	22726	7.57	ng	93

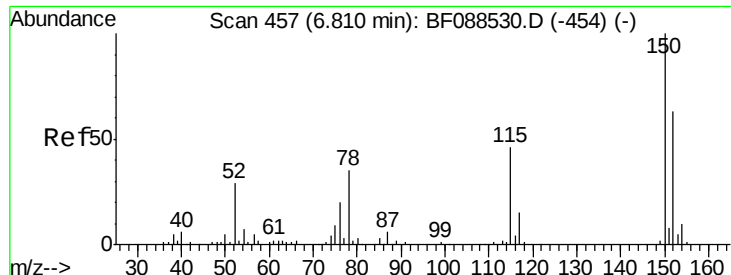
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 446

Delta R.T. -0.02 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

Instrument :

BNA_F

ClientSampleId :

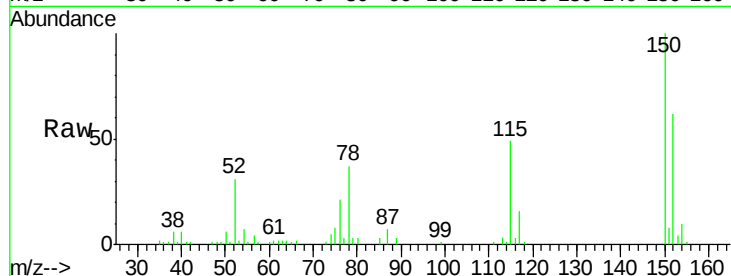
Tgt Ion:152 Resp: 44358

Ion Ratio Lower Upper

152 100

150 160.5 123.8 185.6

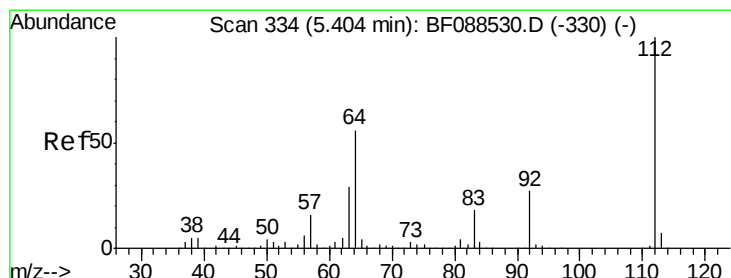
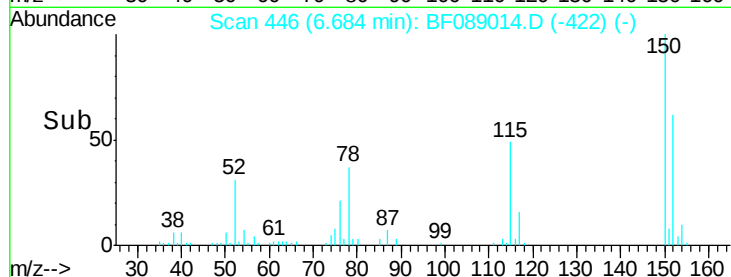
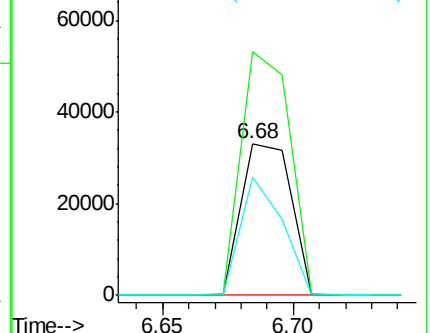
115 78.0 39.6 59.4#



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: 112.88 ng

RT: 5.29 min Scan# 324

Delta R.T. -0.00 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

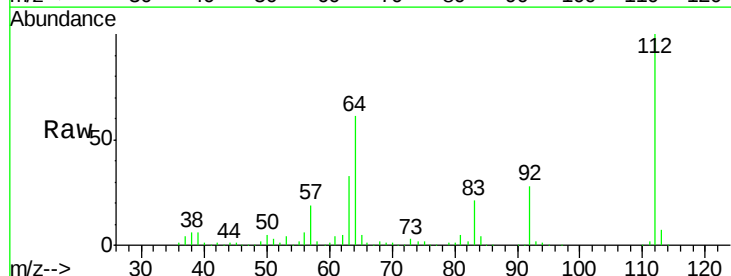
Tgt Ion:112 Resp: 334088

Ion Ratio Lower Upper

112 100

64 61.2 42.2 63.2

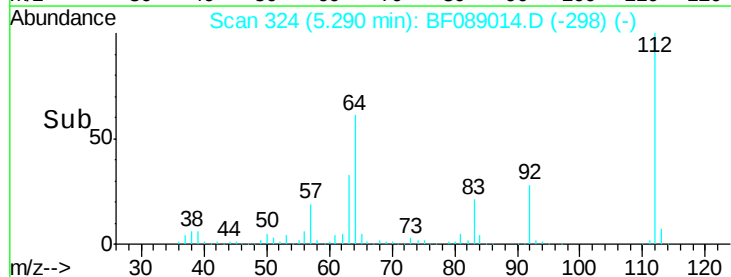
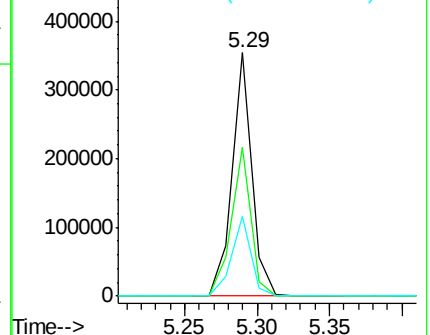
63 33.0 21.8 32.8#



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: 129.91 ng

RT: 6.35 min Scan# 417

Delta R.T. -0.00 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

Instrument :

BNA_F

ClientSampled :

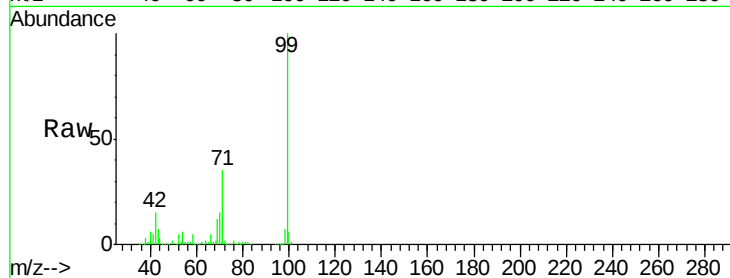
Tgt Ion: 99 Resp: 496821

Ion Ratio Lower Upper

99 100

42 15.0 12.2 18.2

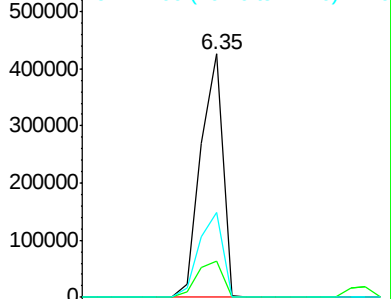
71 34.8 23.4 35.0



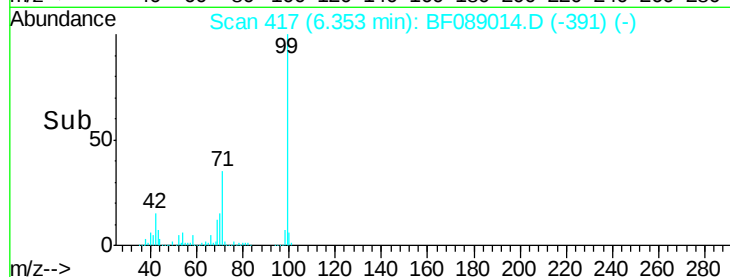
Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



Time-->



#19

n-Nitroso-di-n-propylamine

Concen: 12.62 ng

RT: 7.26 min Scan# 496

Delta R.T. 0.11 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

Tgt Ion: 70 Resp: 32424

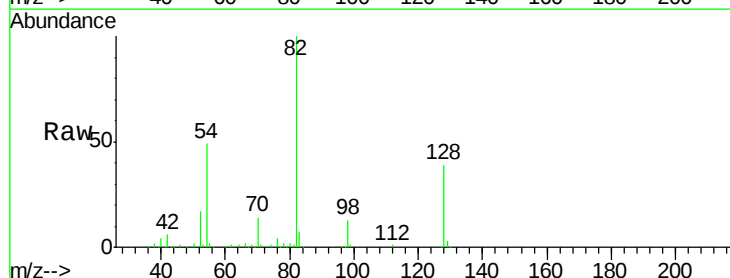
Ion Ratio Lower Upper

70 100

42 45.7 49.6 74.4#

101 0.0 7.1 10.7#

130 1.8 15.4 23.2#

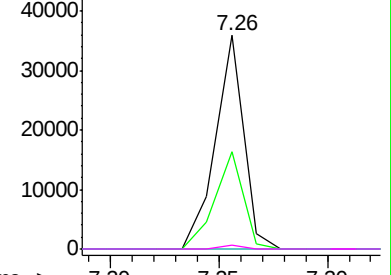


Abundance Ion 70.00 (69.70 to 70.70): BF0

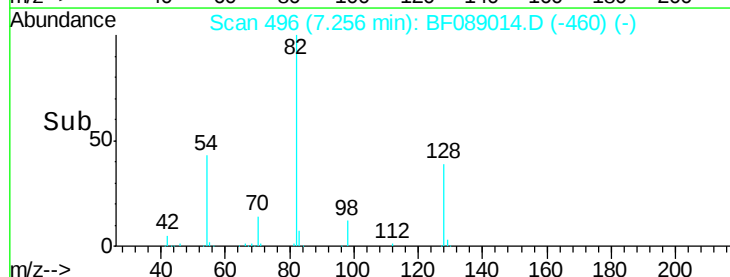
Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0



Time-->





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.98 min Scan# 559

Delta R.T. -0.02 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

Instrument :

BNA_F

ClientSampleId :

Tgt Ion: 136 Resp: 178165

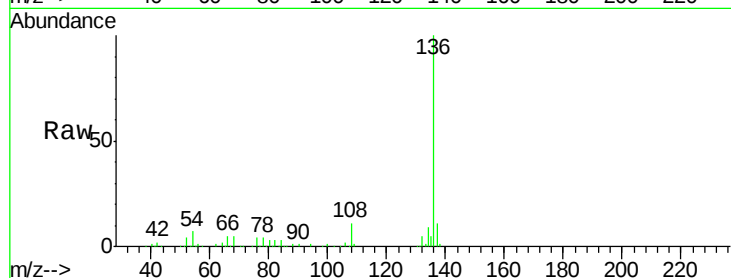
Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 6.8 6.6 10.0

68 5.4 5.1 7.7

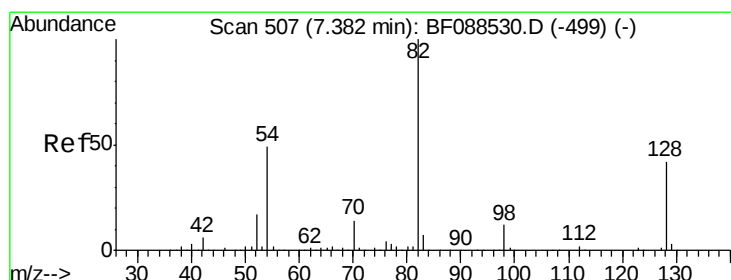
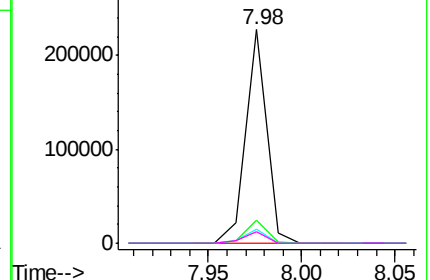
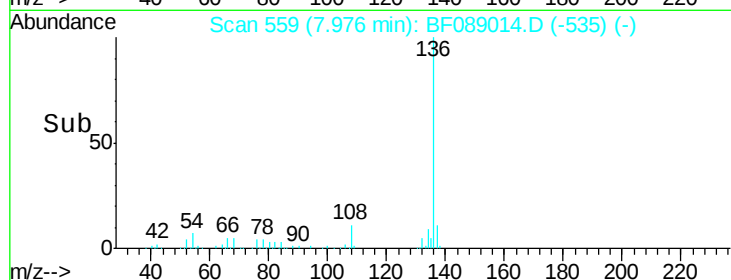


Abundance Ion 136.00 (135.70 to 136.70): E

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: 69.68 ng

RT: 7.26 min Scan# 496

Delta R.T. -0.02 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

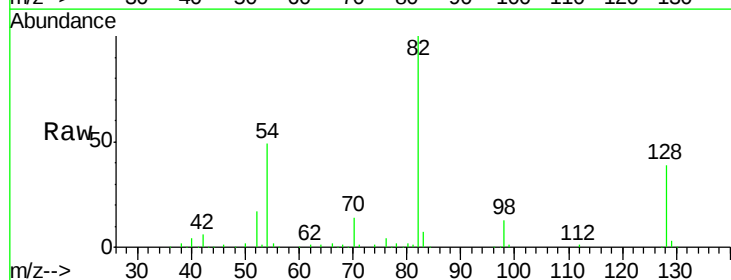
Tgt Ion: 82 Resp: 236882

Ion Ratio Lower Upper

82 100

128 39.3 35.9 53.9

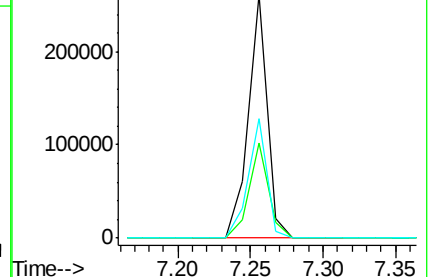
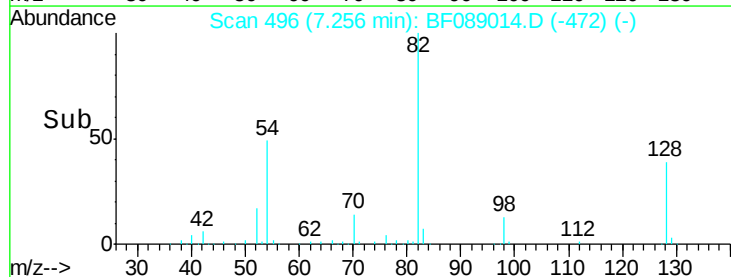
54 49.0 40.9 61.3

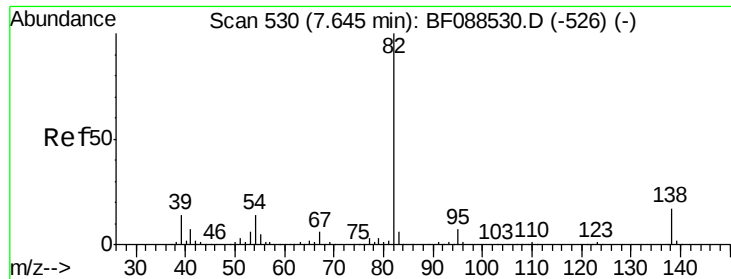


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 30.88 ng

RT: 7.26 min Scan# 496

Delta R.T. -0.29 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

Instrument :

BNA_F

ClientSampleId :

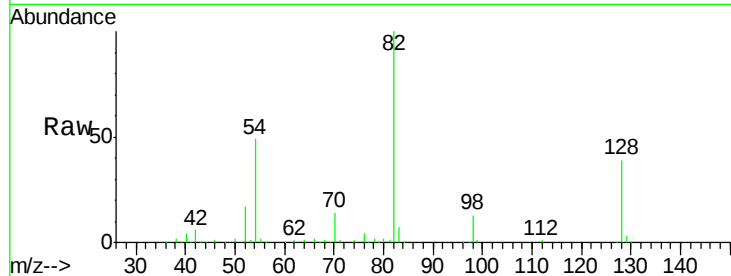
Tgt Ion: 82 Resp: 194443

Ion Ratio Lower Upper

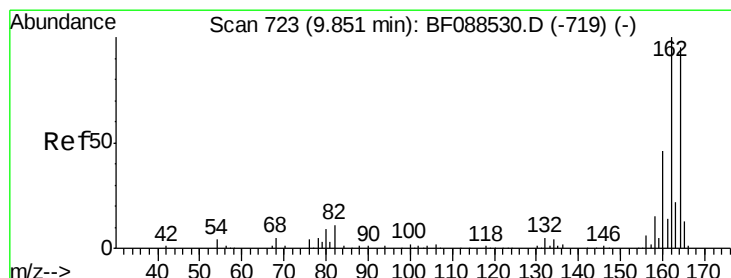
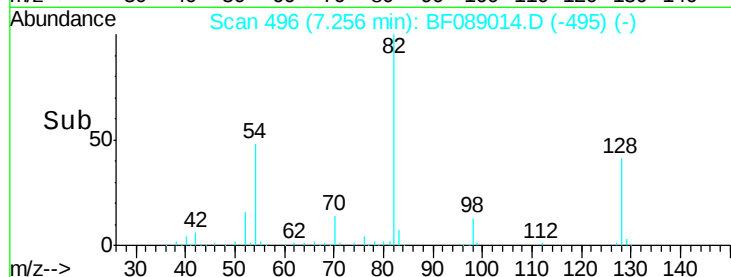
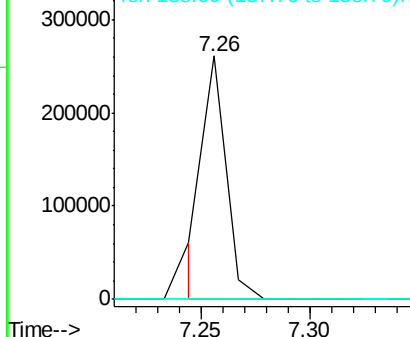
82 100

95 0.0 5.4 8.2#

138 0.0 14.6 21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.72 min Scan# 712

Delta R.T. -0.02 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

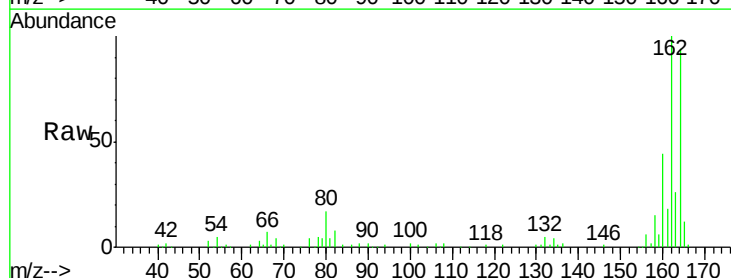
Tgt Ion: 164 Resp: 71951

Ion Ratio Lower Upper

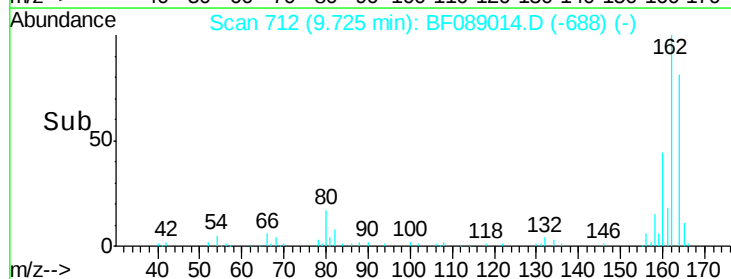
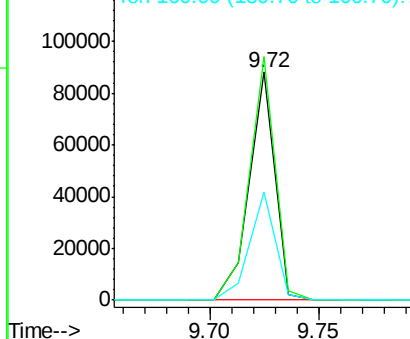
164 100

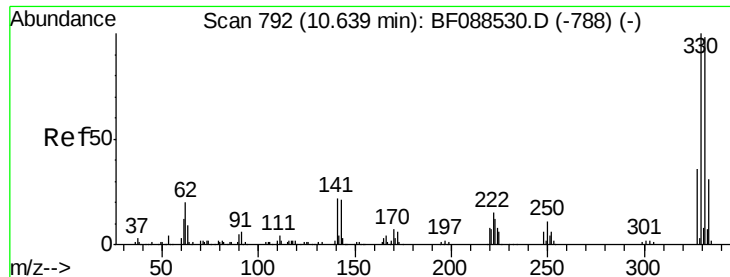
162 106.7 85.4 128.2

160 47.1 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

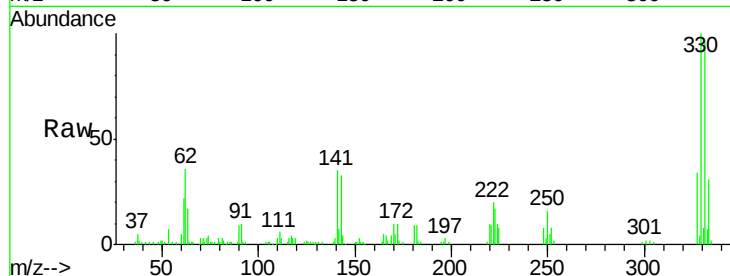




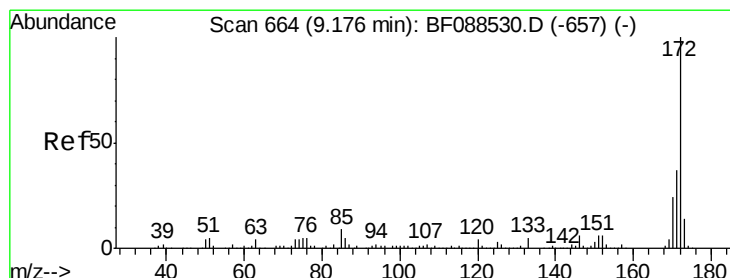
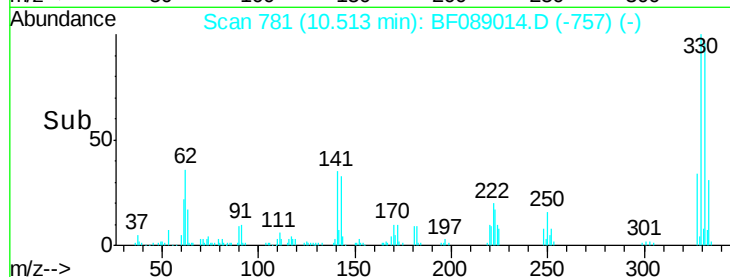
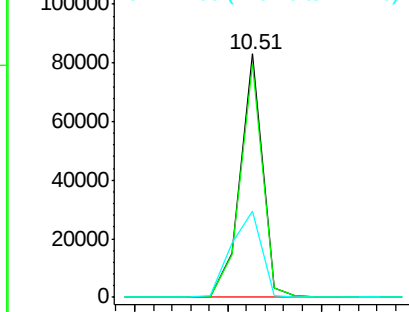
#41
 2,4,6-Tribromophenol
 Concen: 104.53 ng
 RT: 10.51 min Scan# 781
 Delta R.T. -0.02 min
 Lab File: BF089014.D
 Acq: 15 Jul 2016 5:19

Instrument :
 BNA_F
 ClientSampled :

Tgt Ion:330 Resp: 69843
 Ion Ratio Lower Upper
 330 100
 332 96.2 0.0 0.0#
 141 48.0 0.0 0.0#

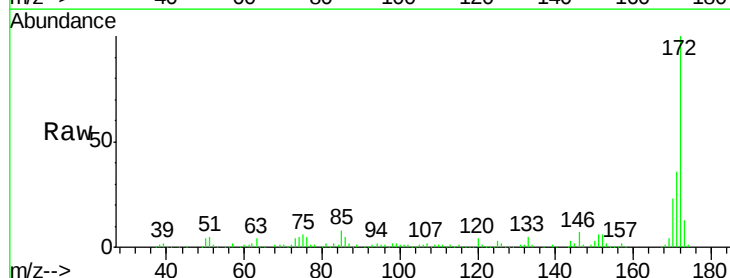


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

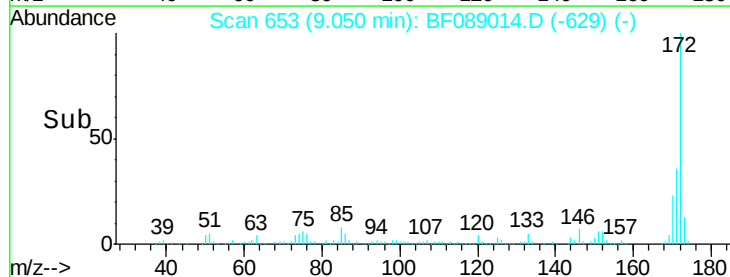
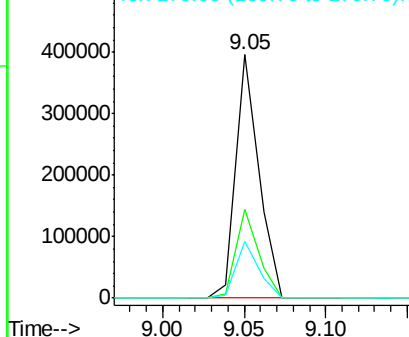


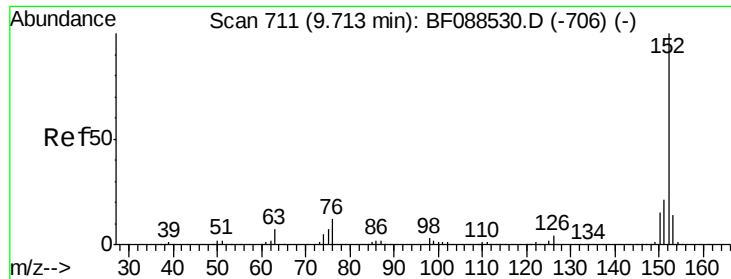
#44
 2-Fluorobiphenyl
 Concen: 84.35 ng
 RT: 9.05 min Scan# 653
 Delta R.T. -0.02 min
 Lab File: BF089014.D
 Acq: 15 Jul 2016 5:19

Tgt Ion:172 Resp: 384210
 Ion Ratio Lower Upper
 172 100
 171 36.3 28.6 43.0
 170 23.5 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





#48

Acenaphthylene

Concen: 4.38 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.02 min

Lab File: BF089014.D

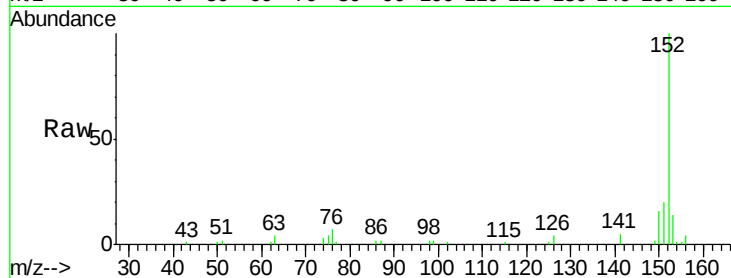
Acq: 15 Jul 2016 5:19

Instrument :

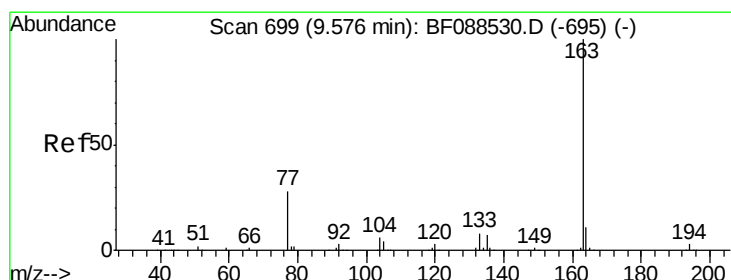
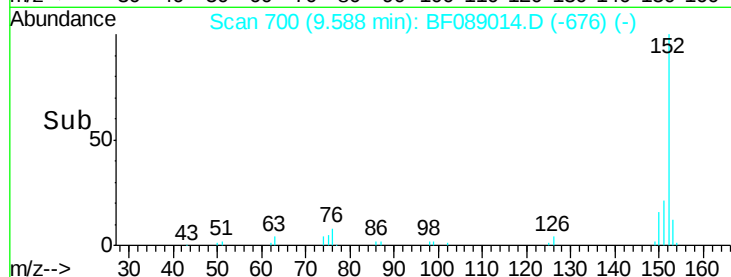
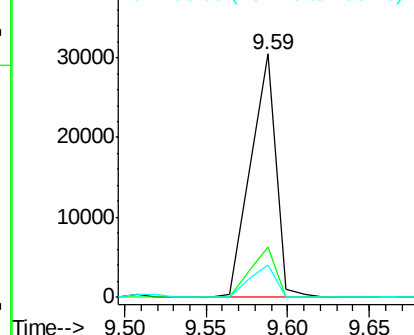
BNA_F

ClientSampleId :

Tgt Ion:	152	Resp:	32614
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.2	24.4
153	13.6	11.0	16.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 19.49 ng

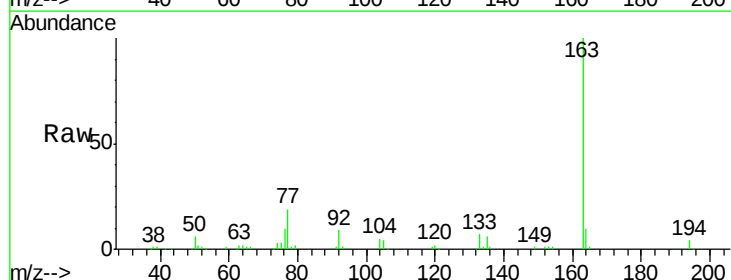
RT: 9.45 min Scan# 688

Delta R.T. -0.03 min

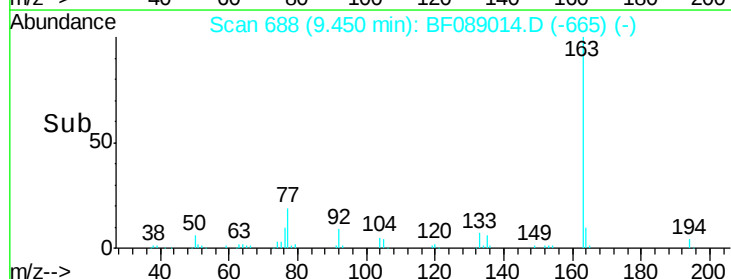
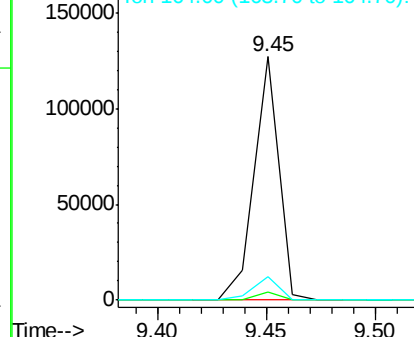
Lab File: BF089014.D

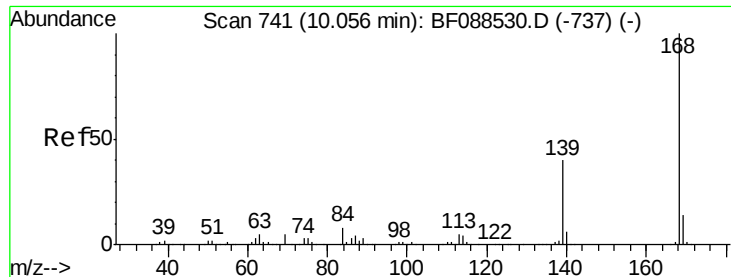
Acq: 15 Jul 2016 5:19

Tgt Ion:	163	Resp:	99890
Ion Ratio	Lower	Upper	
163	100		
194	3.5	2.8	4.2
164	9.7	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

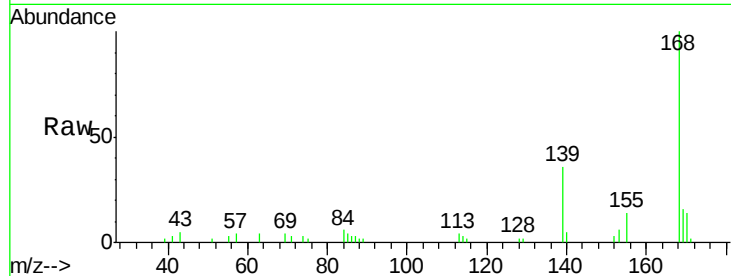




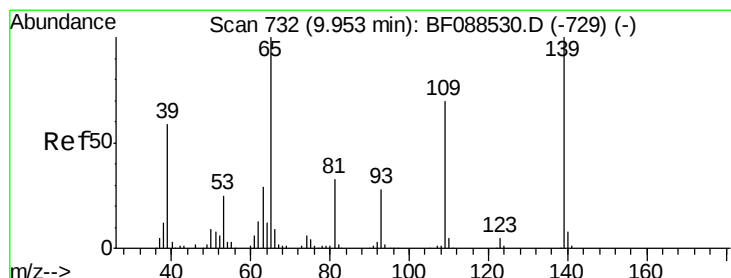
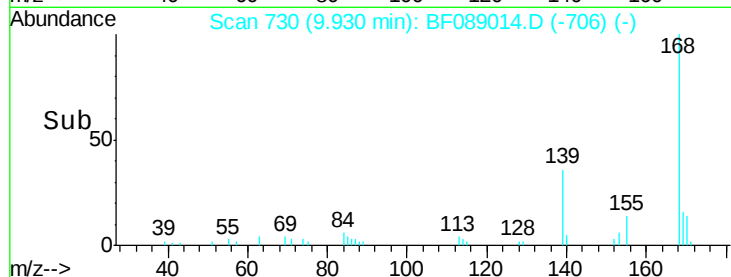
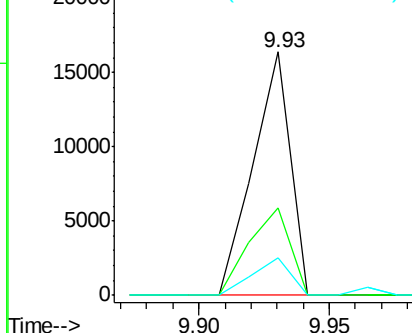
#54
Dibenzenofuran
Concen: 2.74 ng
RT: 9.93 min Scan# 730
Delta R.T. -0.02 min
Lab File: BF089014.D
Acq: 15 Jul 2016 5:19

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:168 Resp: 16371
Ion Ratio Lower Upper
168 100
139 35.9 26.4 39.6
169 15.6 10.4 15.6

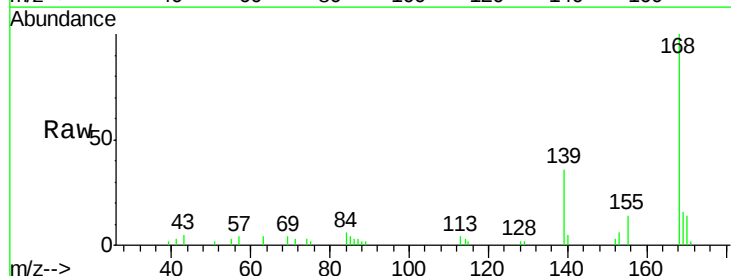


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

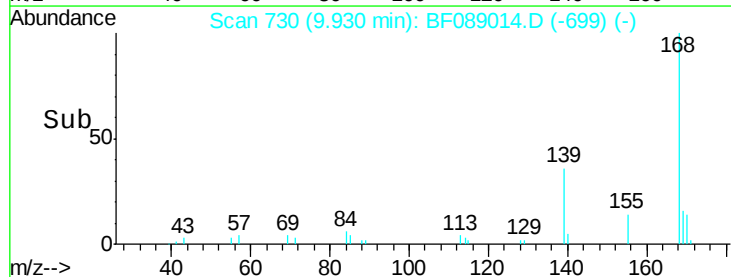
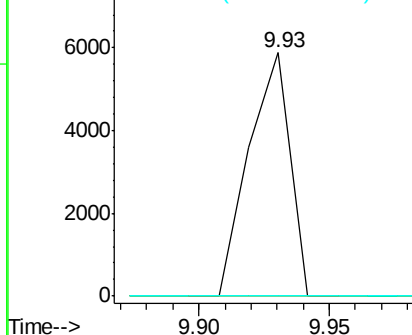


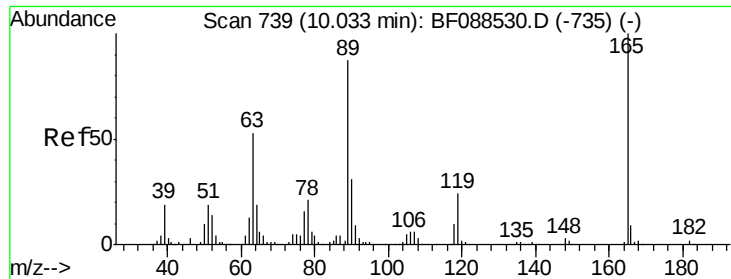
#55
4-Nitrophenol
Concen: 5.92 ng
RT: 9.93 min Scan# 730
Delta R.T. 0.06 min
Lab File: BF089014.D
Acq: 15 Jul 2016 5:19

Tgt Ion:139 Resp: 6499
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

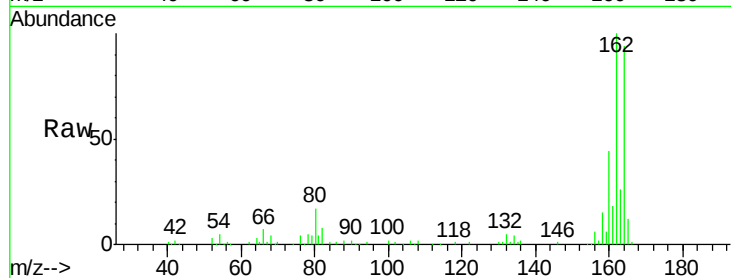




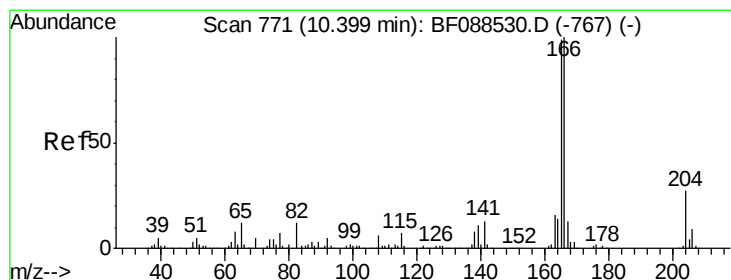
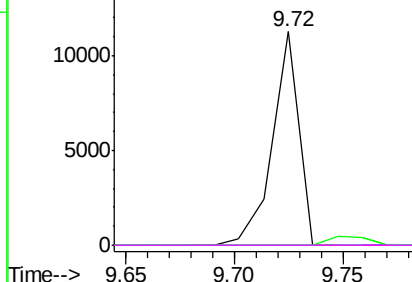
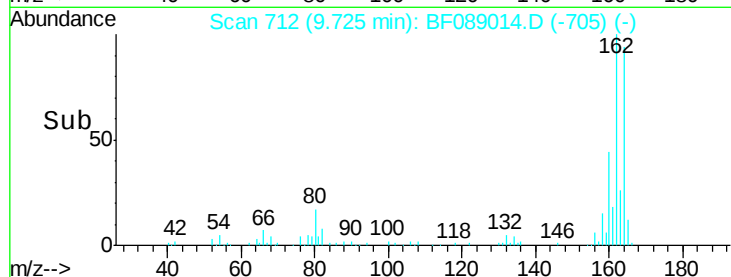
#56
2,4-Dinitrotoluene
Concen: 6.48 ng
RT: 9.72 min Scan# 712
Delta R.T. -0.22 min
Lab File: BF089014.D
Acq: 15 Jul 2016 5:19

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:165 Resp: 9625
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#

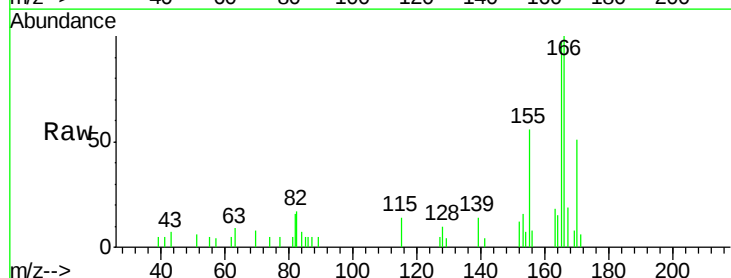


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0
Ion 182.00 (181.70 to 182.70): E

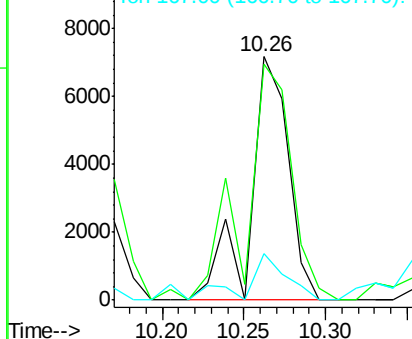
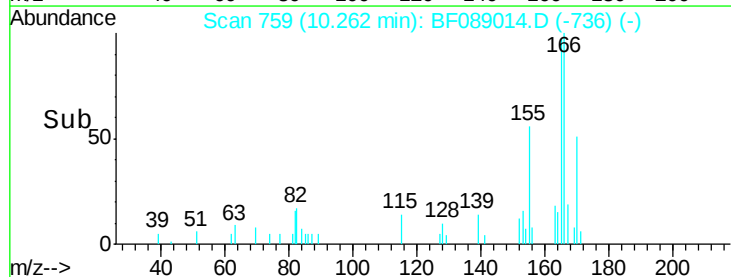


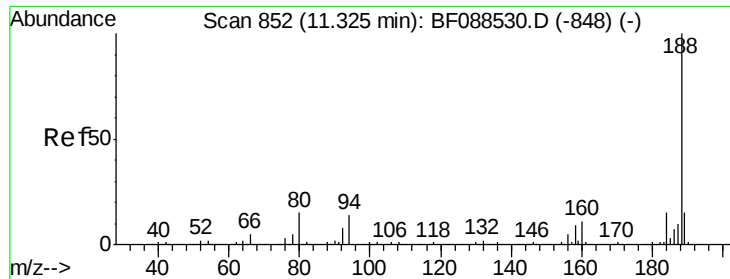
#57
Fluorene
Concen: 2.55 ng
RT: 10.26 min Scan# 759
Delta R.T. -0.03 min
Lab File: BF089014.D
Acq: 15 Jul 2016 5:19

Tgt Ion:166 Resp: 11713
Ion Ratio Lower Upper
166 100
165 96.9 77.8 116.8
167 19.2 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

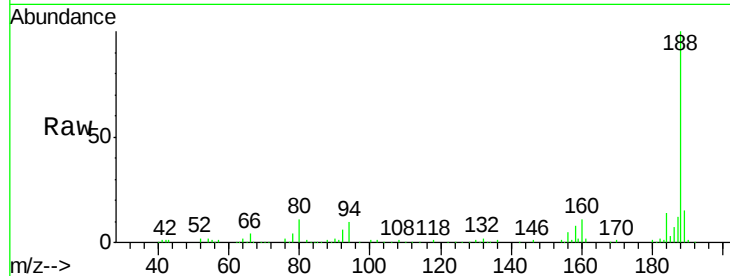




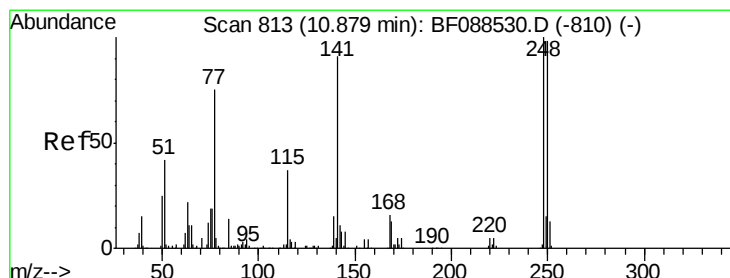
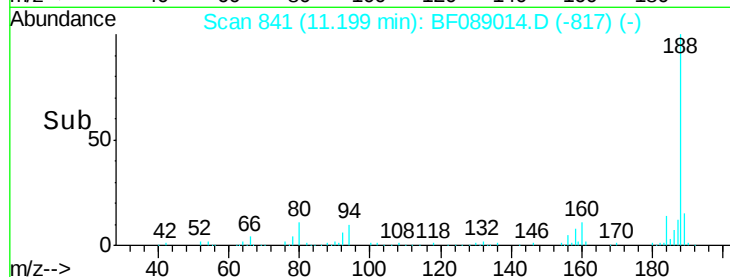
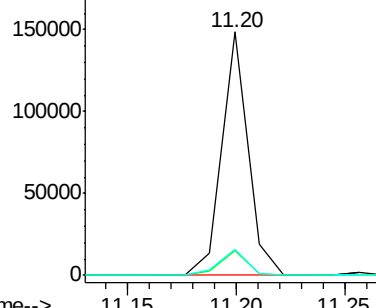
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.20 min Scan# 841
Delta R.T. -0.02 min
Lab File: BF089014.D
Acq: 15 Jul 2016 5:19

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:188 Resp: 124744
Ion Ratio Lower Upper
188 100
94 10.0 9.0 13.6
80 10.9 10.0 15.0

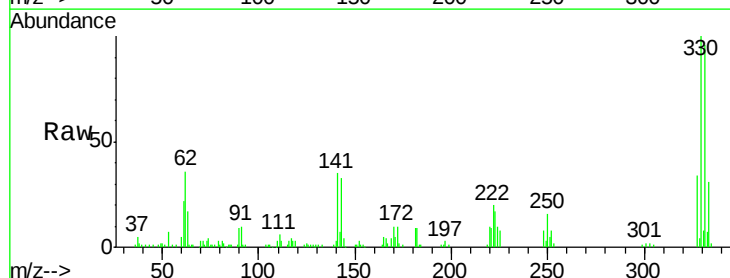


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

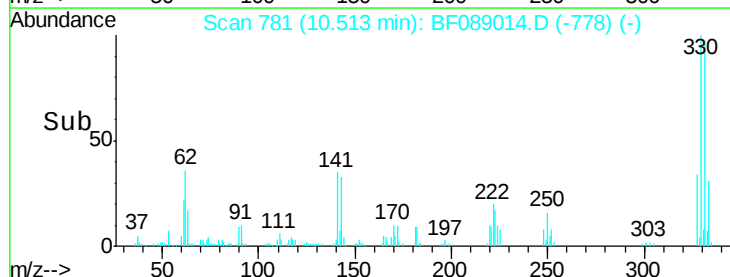
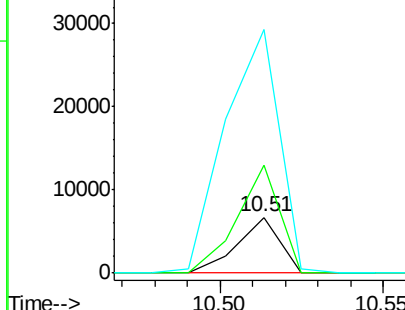


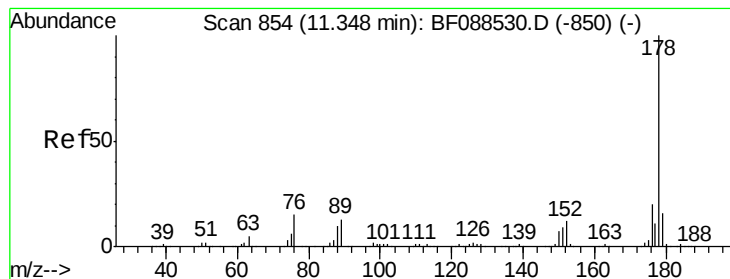
#66
4-Bromophenyl-phenylether
Concen: 4.73 ng
RT: 10.51 min Scan# 781
Delta R.T. -0.26 min
Lab File: BF089014.D
Acq: 15 Jul 2016 5:19

Tgt Ion:248 Resp: 5940
Ion Ratio Lower Upper
248 100
250 193.5 77.1 115.7#
141 438.8 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: 26.80 ng

RT: 11.22 min Scan# 843

Delta R.T. -0.02 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

Instrument :

BNA_F

ClientSampleId :

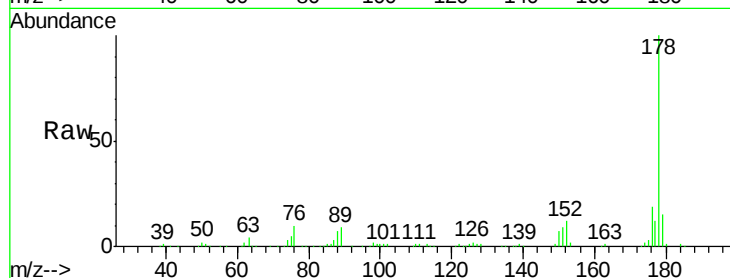
Tgt Ion:178 Resp: 182752

Ion Ratio Lower Upper

178 100

176 18.5 15.8 23.6

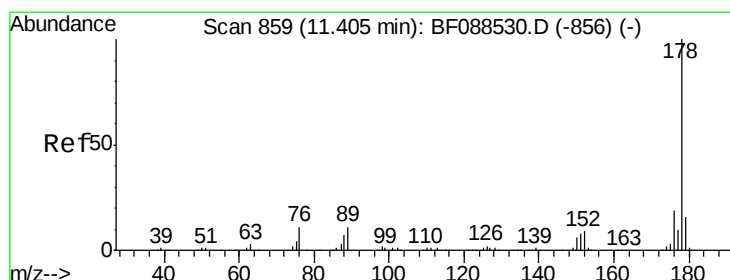
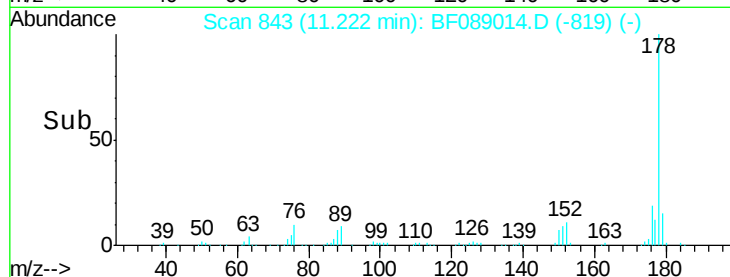
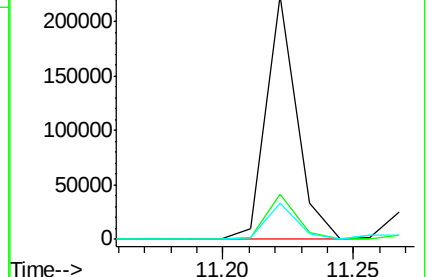
179 15.1 13.0 19.4



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: 6.23 ng

RT: 11.28 min Scan# 848

Delta R.T. -0.02 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

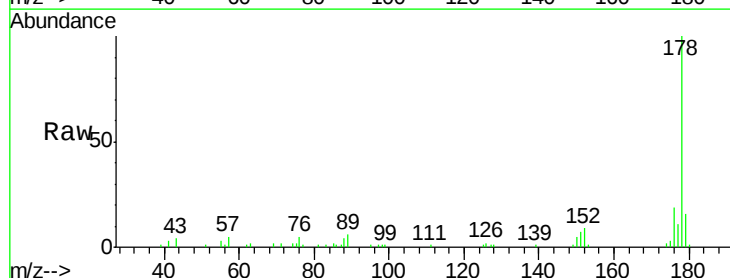
Tgt Ion:178 Resp: 42261

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

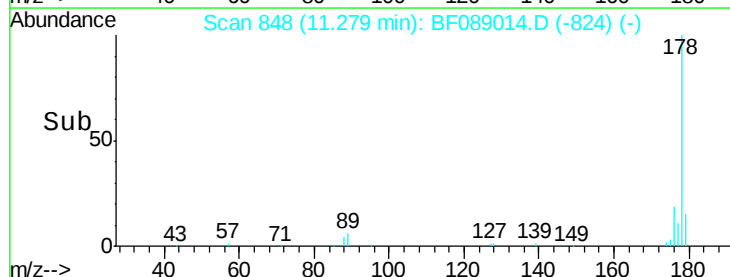
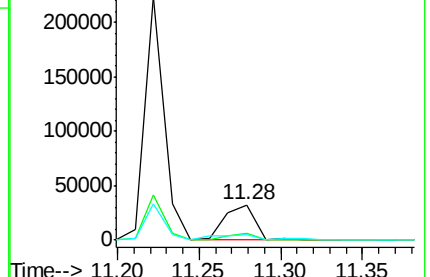
179 15.9 12.8 19.2

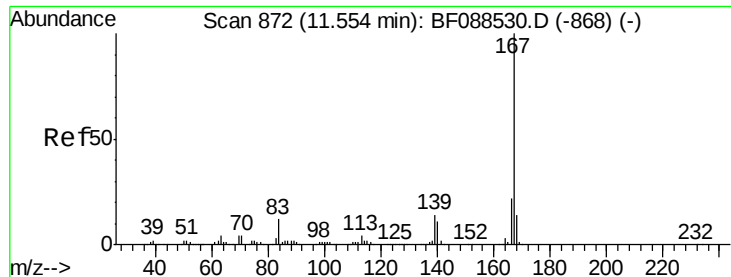


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.49 ng

RT: 11.43 min Scan# 861

Delta R.T. -0.02 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

Instrument :

BNA_F

ClientSampleId :

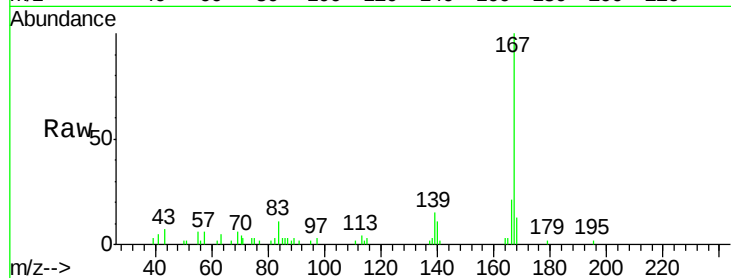
Tgt Ion:167 Resp: 15904

Ion Ratio Lower Upper

167 100

166 21.2 17.8 26.6

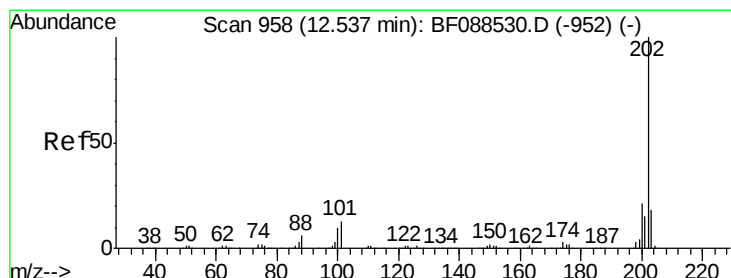
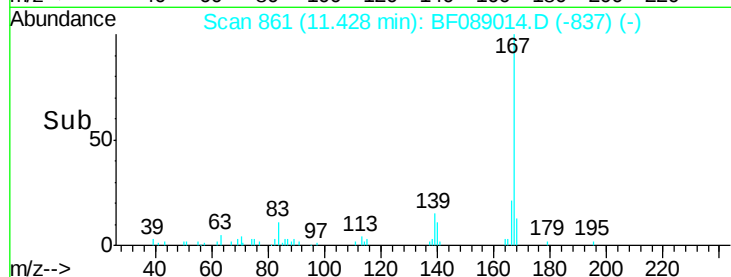
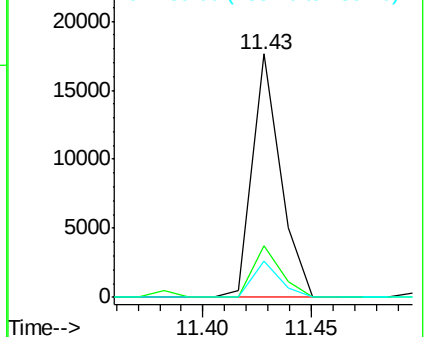
139 14.8 11.2 16.8



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: 31.66 ng

RT: 12.41 min Scan# 947

Delta R.T. -0.01 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

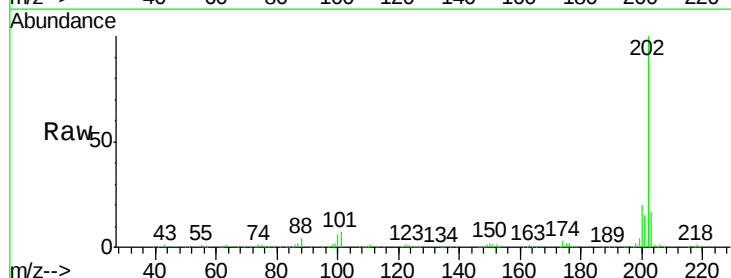
Tgt Ion:202 Resp: 218882

Ion Ratio Lower Upper

202 100

101 7.3 0.0 33.1

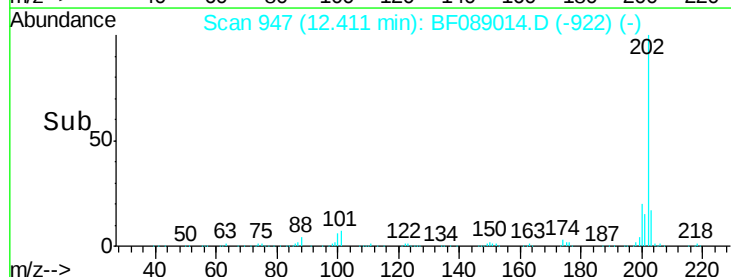
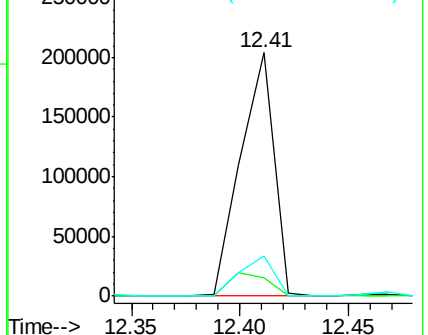
203 16.6 0.0 38.1

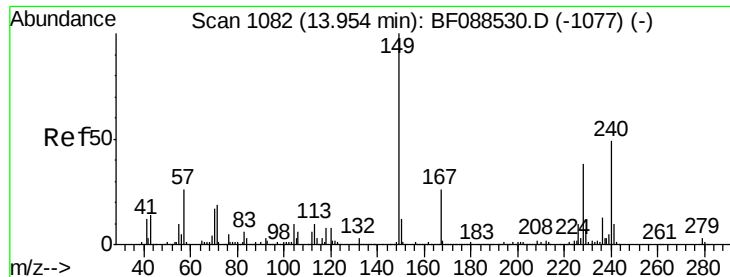


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.83 min Scan# 1071

Delta R.T. -0.02 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

Instrument :

BNA_F

ClientSampleId :

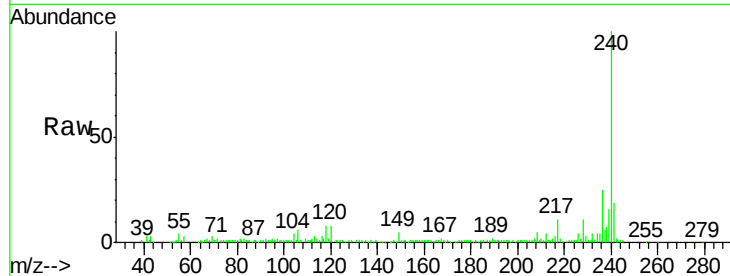
Tgt Ion:240 Resp: 89172

Ion Ratio Lower Upper

240 100

120 8.3 6.8 10.2

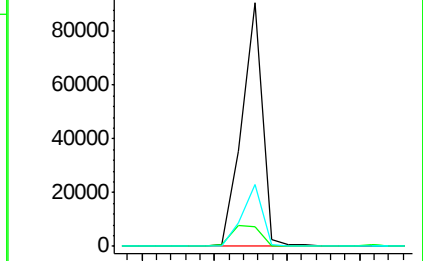
236 25.3 20.2 30.2



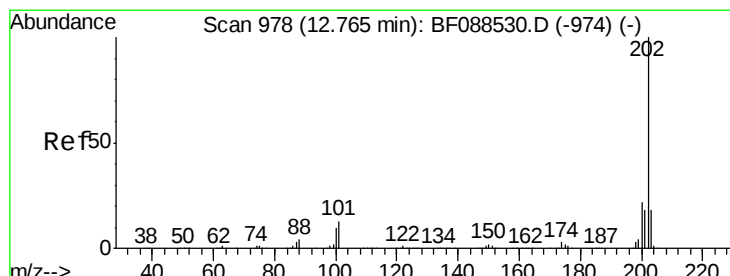
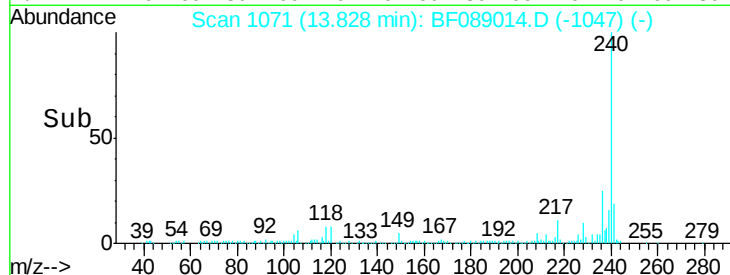
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->



#77

Pyrene

Concen: 22.92 ng

RT: 12.63 min Scan# 966

Delta R.T. -0.02 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

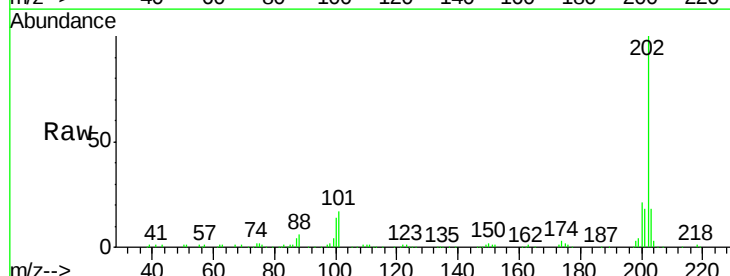
Tgt Ion:202 Resp: 173262

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

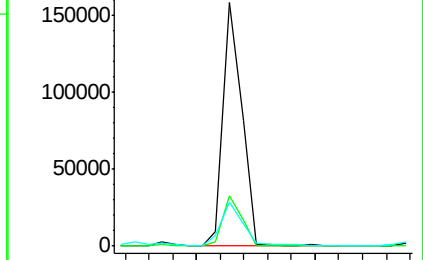
203 17.9 14.5 21.7



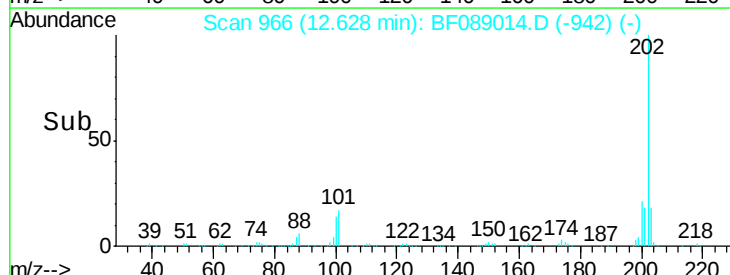
Abundance Ion 202.00 (201.70 to 202.70): E

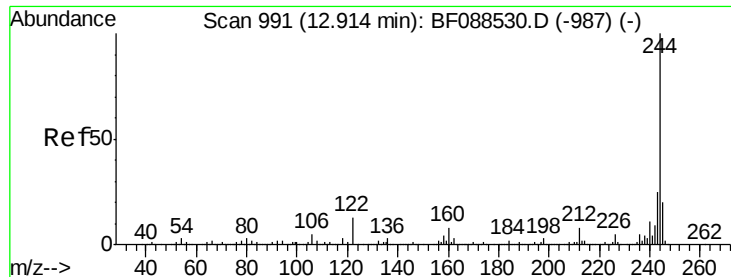
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#78

Terphenyl-d14

Concen: 88.05 ng

RT: 12.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

Instrument :

BNA_F

ClientSampled :

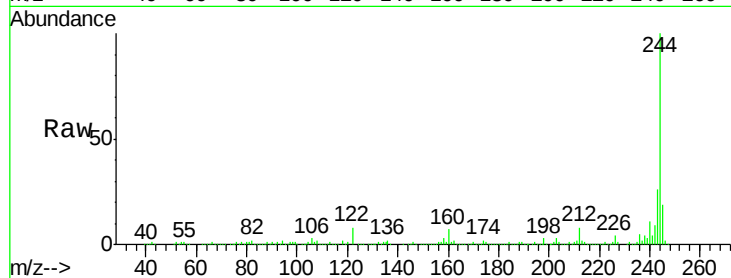
Tgt Ion:244 Resp: 352499

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

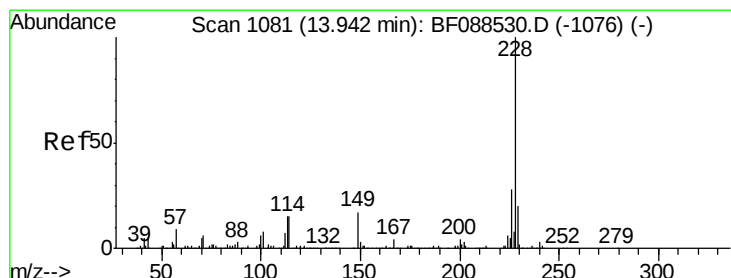
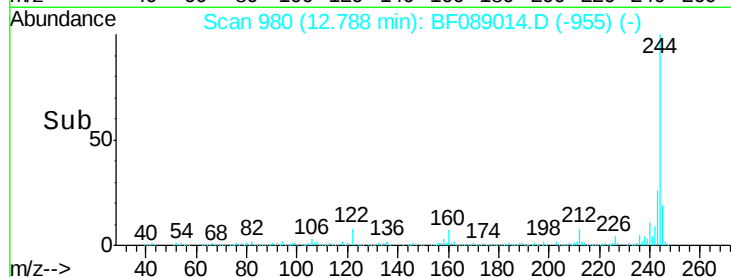
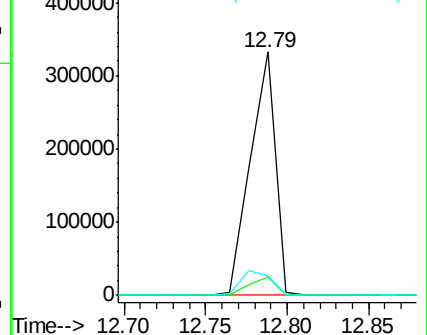
122 8.2 11.2 16.8#



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: 15.01 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.02 min

Lab File: BF089014.D

Acq: 15 Jul 2016 5:19

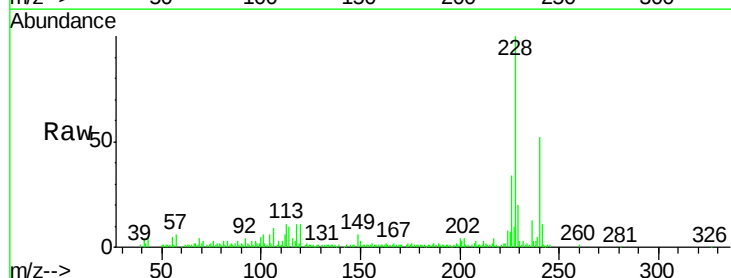
Tgt Ion:228 Resp: 86174

Ion Ratio Lower Upper

228 100

226 33.8 22.3 33.5#

229 20.3 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

