

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073016\
 Data File : BF089441.D
 Acq On : 30 Jul 2016 7:10
 Operator : UM/SJ
 Sample : H4215-02
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 01 01:01:21 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 28 16:02:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.51	152	38970	20.00	ng	-0.03
21) Naphthalene-d8	7.80	136	131572	20.00	ng	-0.02
38) Acenaphthene-d10	9.54	164	52224	20.00	ng	-0.03
63) Phenanthrene-d10	11.02	188	92059	20.00	ng	-0.03
75) Chrysene-d12	13.65	240	90859	20.00	ng	-0.02
86) Perylene-d12	14.99	264	104386	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.08	112	239770	98.24	ng	-0.02
7) Phenol-d6	6.17	99	305053	94.58	ng	-0.03
23) Nitrobenzene-d5	7.08	82	185595	83.26	ng	-0.03
41) 2,4,6-Tribromophenol	10.33	330	42895	99.17	ng	-0.03
44) 2-Fluorobiphenyl	8.88	172	269859	75.83	ng	-0.03
78) Terphenyl-d14	12.59	244	218184	56.20	ng	-0.03

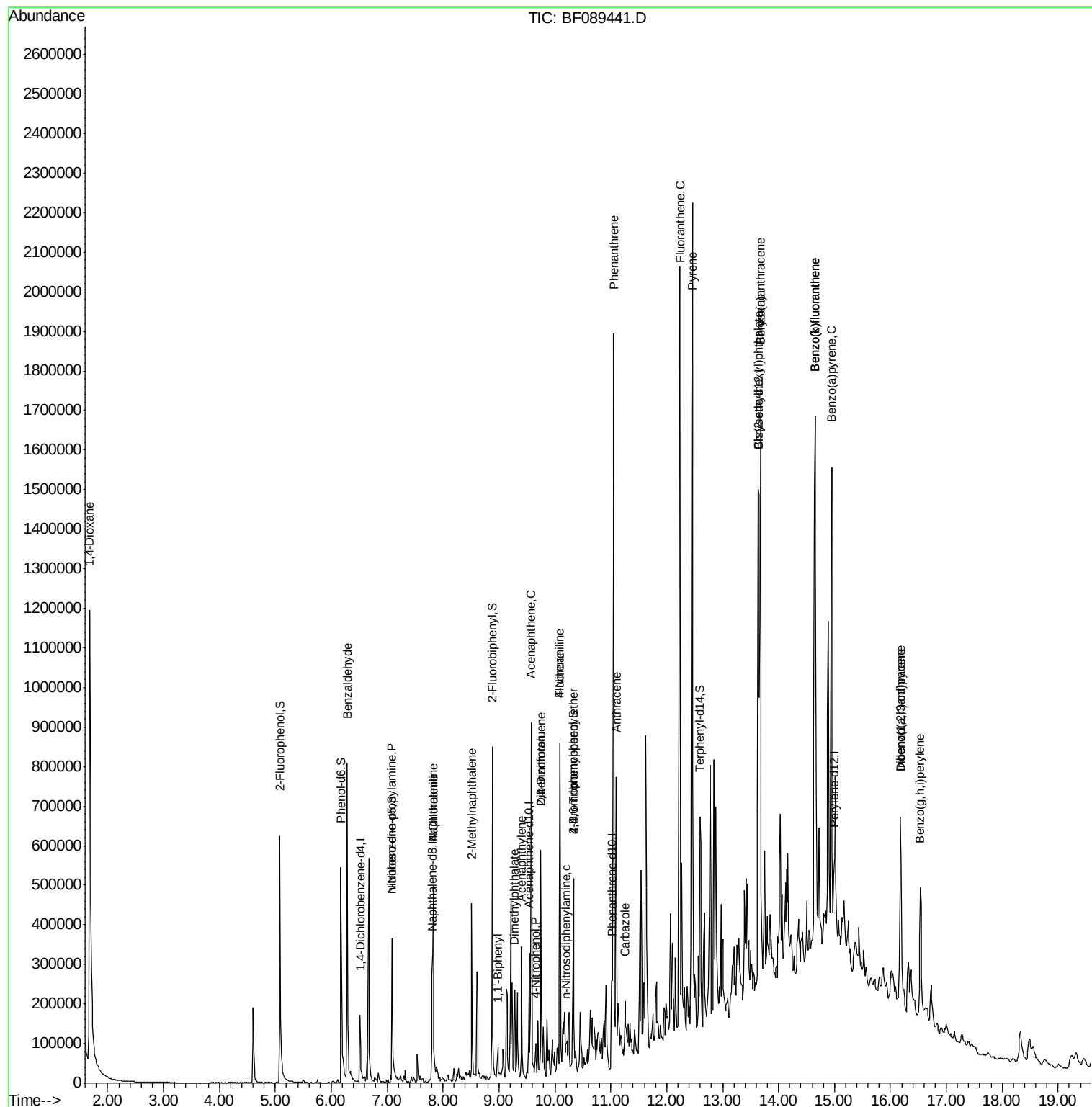
Target Compounds						Qvalue
2) 1,4-Dioxane	1.68	88	71241	66.78	ng	# 26
9) Benzaldehyde	6.28	77	6062	3.85	ng	85
19) n-Nitroso-di-n-propylamine	7.08	70	24723	12.71	ng	# 81
31) Naphthalene	7.83	128	305553	46.90	ng	100
33) 4-Chloroaniline	7.83	127	40067	16.15	ng	# 34
37) 2-Methylnaphthalene	8.51	142	123123	31.36	ng	96
45) 1,1'-Biphenyl	8.98	154	36522	8.21	ng	96
48) Acenaphthylene	9.40	152	114420	21.75	ng	98
49) Dimethylphthalate	9.28	163	81606	20.53	ng	99
51) Acenaphthene	9.58	154	191264	62.27	ng	100
54) Dibenzofuran	9.75	168	190283	45.46	ng	98
55) 4-Nitrophenol	9.66	139	2554	11.80	ng	# 35
56) 2,4-Dinitrotoluene	9.75	165	2410	2.24	ng	# 1
57) Fluorene	10.09	166	258583	70.77	ng	99
61) 4-Nitroaniline	10.09	138	3073	3.46	ng	# 11
65) n-Nitrosodiphenylamine	10.20	169	12820	4.46	ng	# 61
66) 4-Bromophenyl-phenylether	10.33	248	3132	3.56	ng	# 1
70) Phenanthrene	11.05	178	955007	201.14	ng	99
71) Anthracene	11.10	178	360206	68.24	ng	100
72) Carbazole	11.26	167	67398	15.17	ng	97
74) Fluoranthene	12.24	202	1401510	280.62	ng	97
77) Pyrene	12.46	202	1151850	167.27	ng	97
80) Benzo(a)anthracene	13.68	228	648908	126.55	ng	92
82) Chrysene	13.68	228	649400	118.98	ng	96
83) Bis(2-ethylhexyl)phthalate	13.65	149	13093	2.89	ng	# 90
85) Indeno(1,2,3-cd)pyrene	16.18	276	314638	81.08	ng	99
87) Benzo(b)fluoranthene	14.65	252	1169258	180.37	ng	96
88) Benzo(k)fluoranthene	14.65	252	1169258	196.19	ng	99
89) Benzo(a)pyrene	14.95	252	601956	103.51	ng	96
90) Dibenzo(a,h)anthracene	16.18	278	96348	21.03	ng	# 75
91) Benzo(g,h,i)perylene	16.54	276	267375	59.38	ng	98

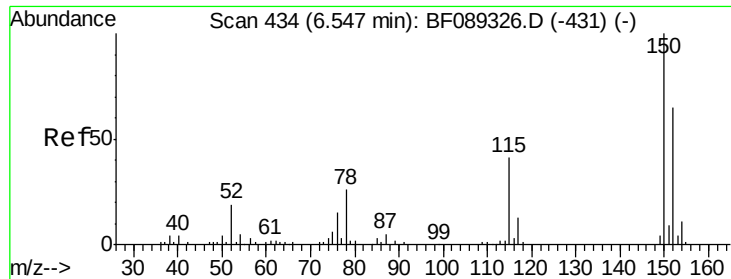
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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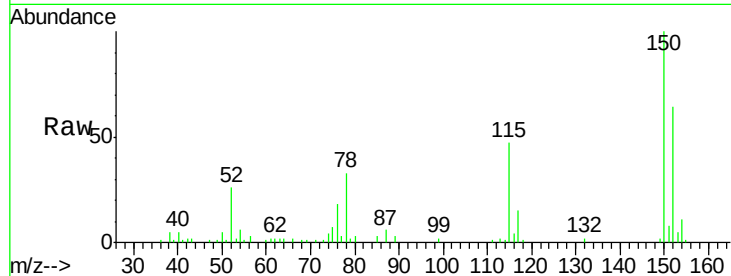


#1

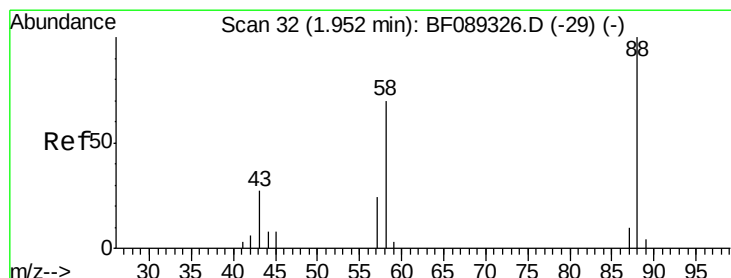
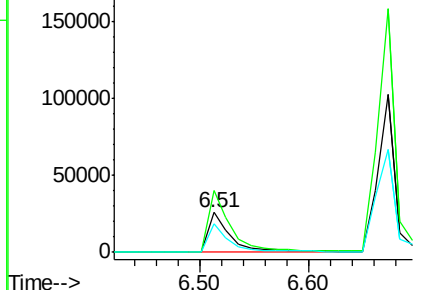
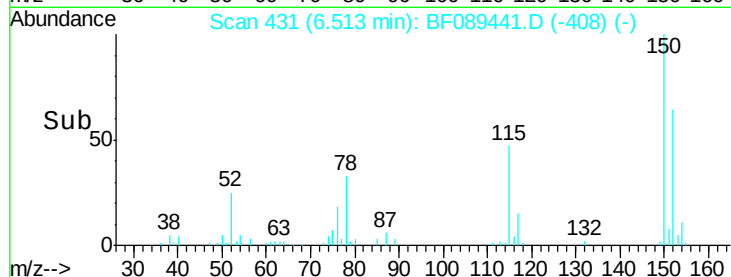
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.51 min Scan# 431
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 38970
Ion Ratio Lower Upper
152 100
150 155.7 129.5 194.3
115 73.5 51.4 77.2



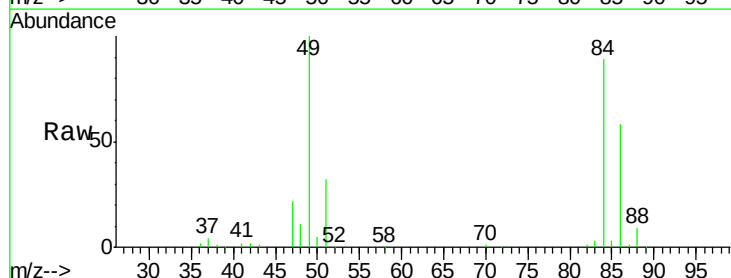
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



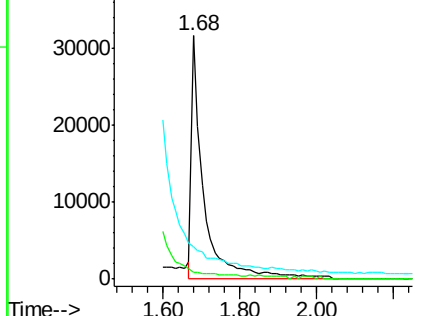
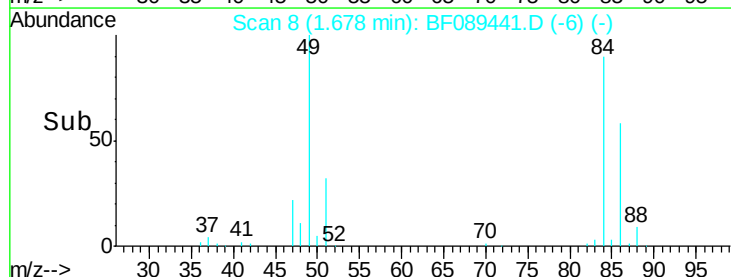
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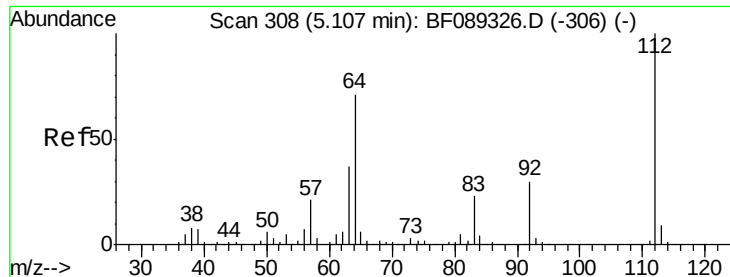
1,4-Dioxane
Concen: 66.78 ng
RT: 1.68 min Scan# 8
Delta R.T. -0.27 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion: 88 Resp: 71241
Ion Ratio Lower Upper
88 100
58 0.0 53.2 79.8#
43 0.0 20.6 31.0#



Abundance Ion 88.00 (87.70 to 88.70): BF0
Ion 58.00 (57.70 to 58.70): BF0
Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 98.24 ng

RT: 5.08 min Scan# 306

Delta R.T. -0.02 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

ClientSampled :

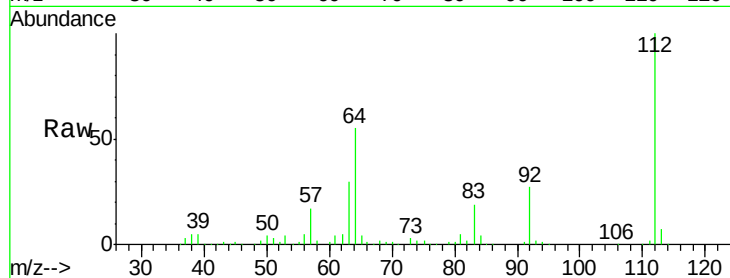
Tot Ion:112 Resp: 239770

Ion Ratio Lower Upper

112 100

64 55.2 55.0 82.6

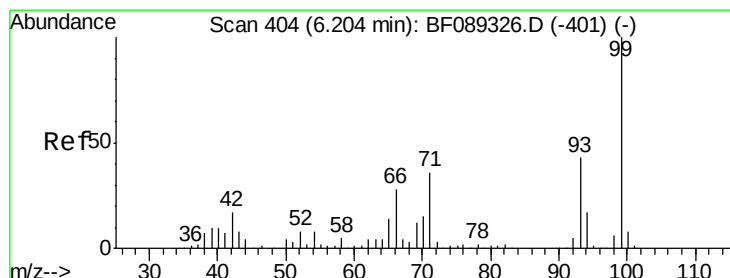
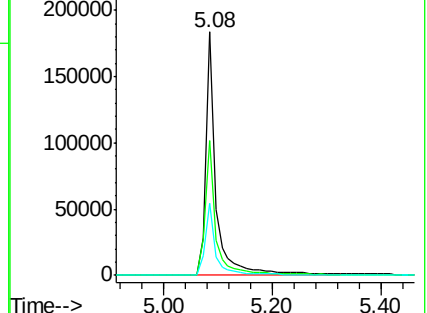
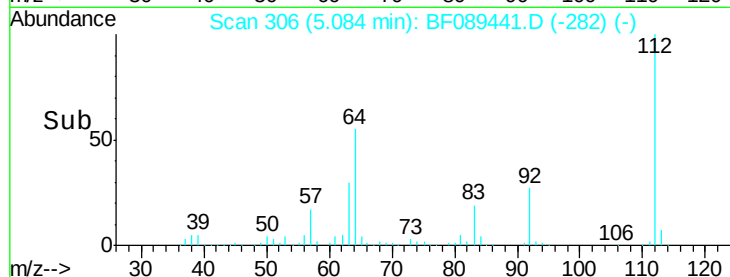
63 29.8 29.4 44.2



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: 94.58 ng

RT: 6.17 min Scan# 401

Delta R.T. -0.03 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

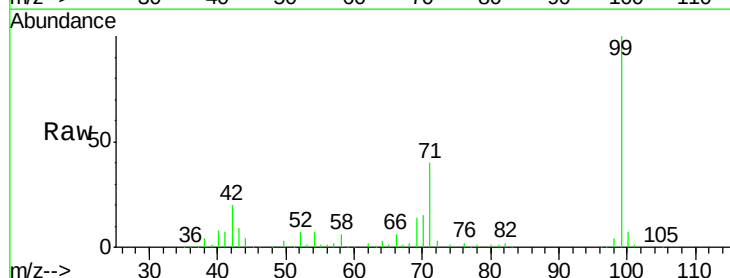
Tgt Ion: 99 Resp: 305053

Ion Ratio Lower Upper

99 100

42 19.6 13.6 20.4

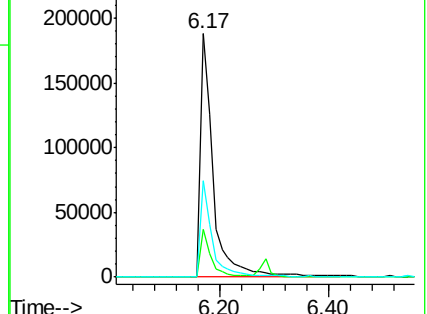
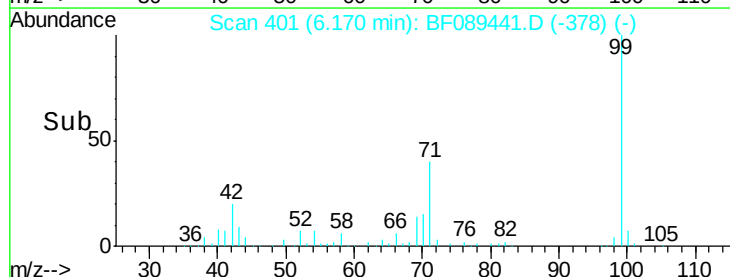
71 39.6 29.4 44.2

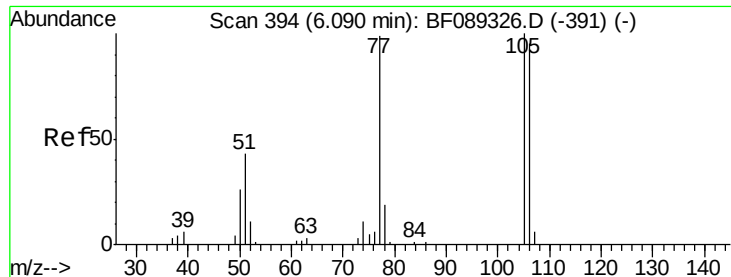


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#9

Benzaldehyd

Concen: 3.85 ng

RT: 6.28 min Scan# 411

Delta R.T. 0.19 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

ClientSampleId :

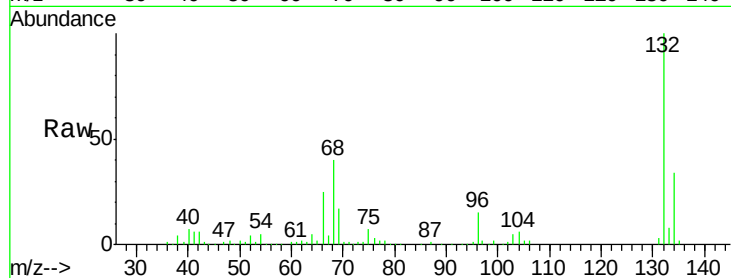
Tot Ion: 77 Resp: 6062

Ion Ratio Lower Upper

77 100

105 87.7 82.9 122.9

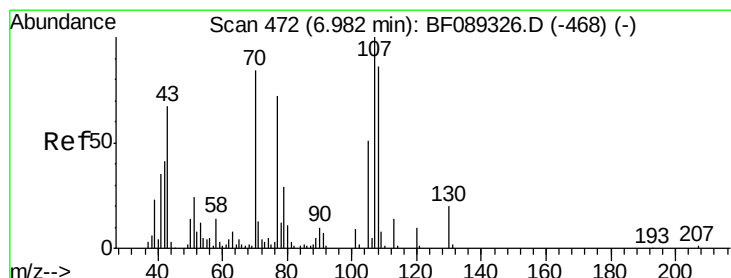
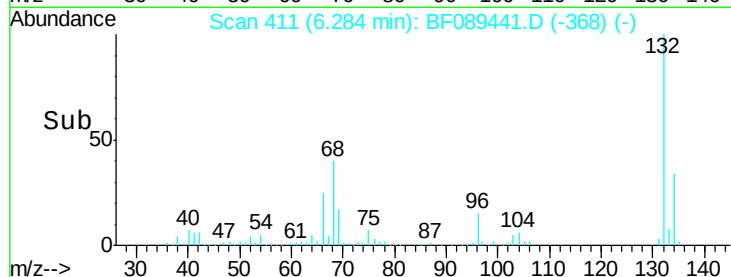
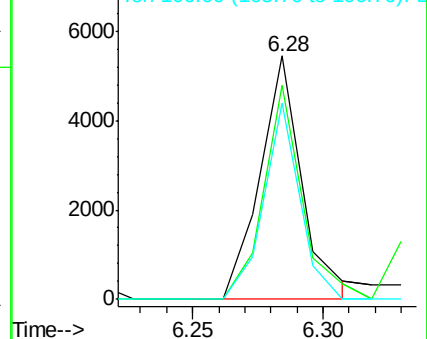
106 80.4 75.9 115.9



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 106.00 (105.70 to 106.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 12.71 ng

RT: 7.08 min Scan# 481

Delta R.T. 0.10 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Tgt Ion: 70 Resp: 24723

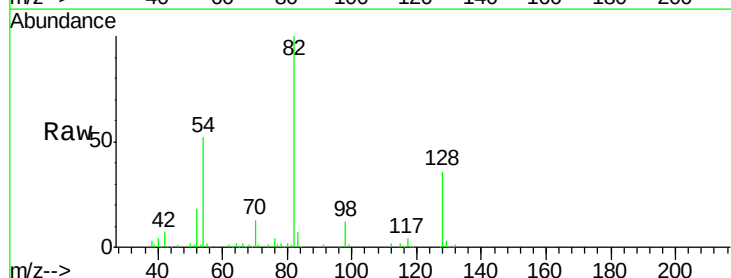
Ion Ratio Lower Upper

70 100

42 51.7 38.6 57.8

101 0.0 8.3 12.5#

130 2.1 19.0 28.4#

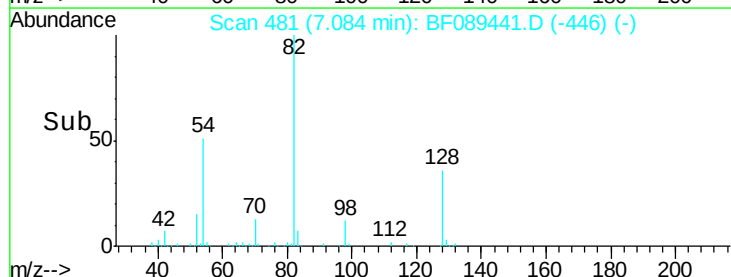
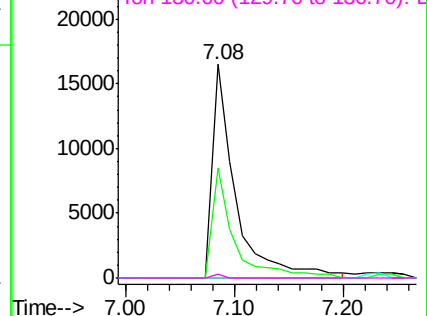


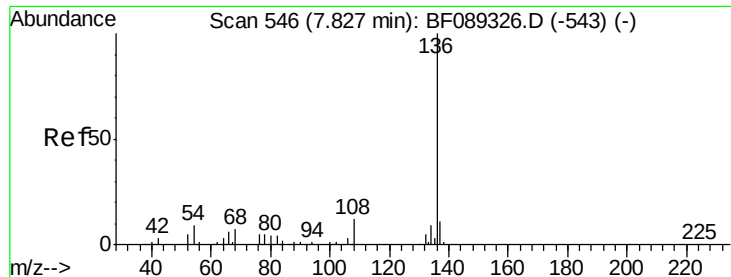
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

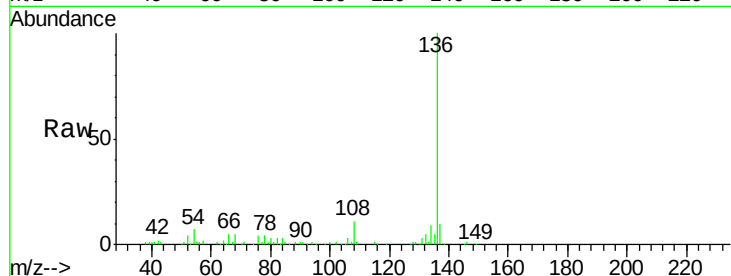




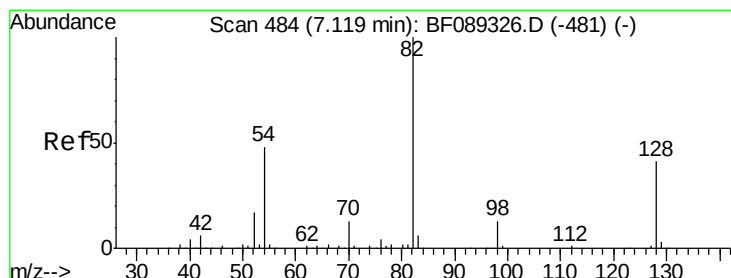
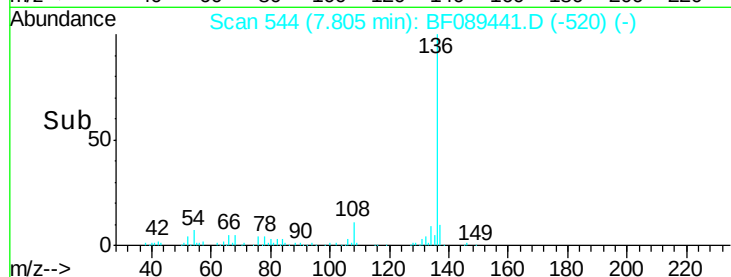
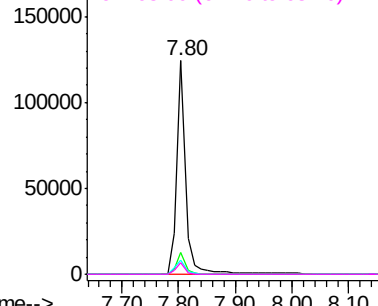
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.80 min Scan# 544
Delta R.T. -0.02 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	131572
Ion Ratio	Lower	Upper
136	100	
137	10.5	8.6 13.0
54	6.7	7.0 10.4#
68	5.3	4.9 7.3

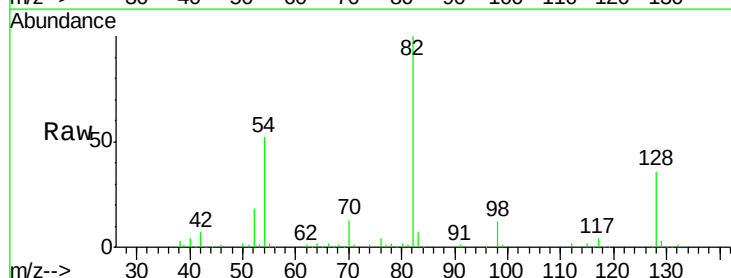


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

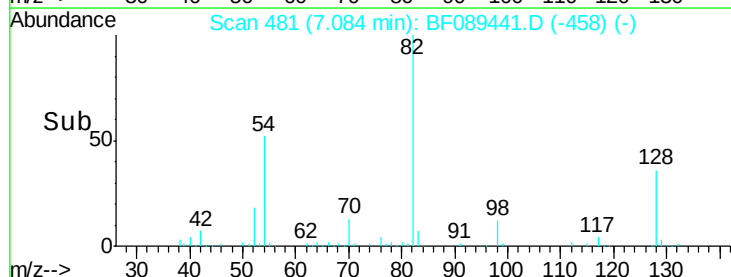
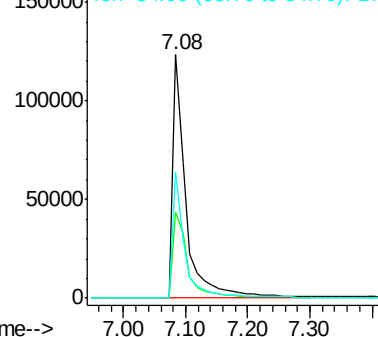


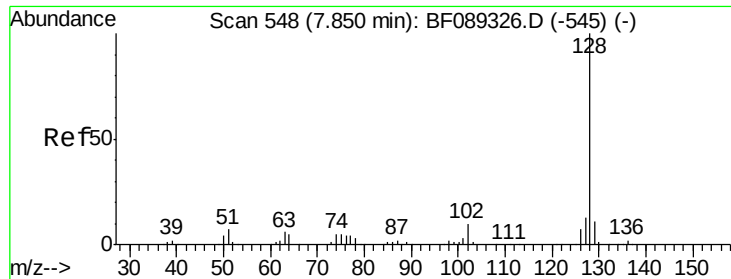
#23
Nitrobenzene-d5
Concen: 83.26 ng
RT: 7.08 min Scan# 481
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion: 82	Resp:	185595
Ion Ratio	Lower	Upper
82	100	
128	35.6	32.5 48.7
54	51.5	38.8 58.2



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

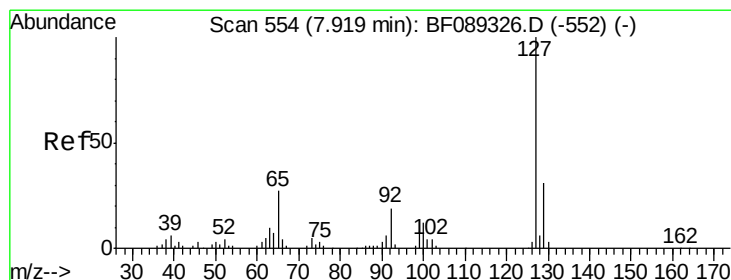
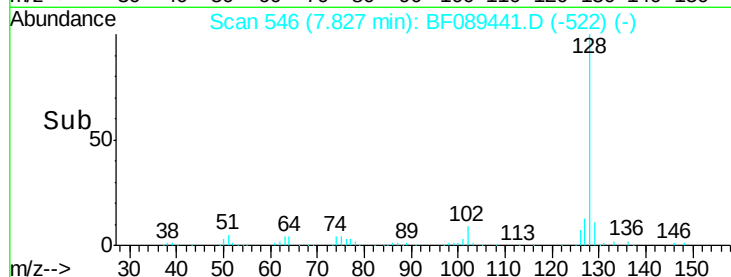
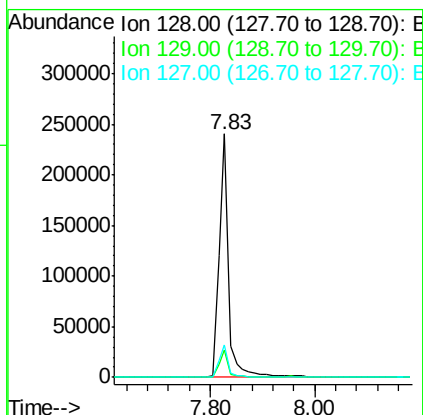
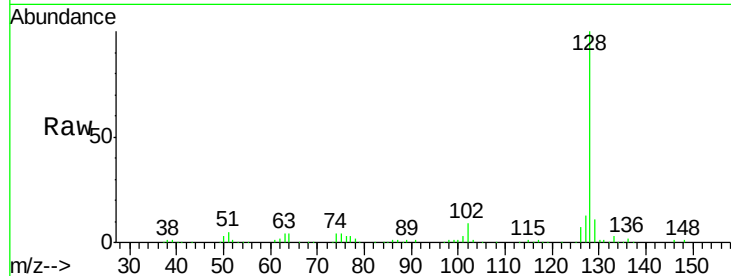




#31
Naphthalene
Concen: 46.90 ng
RT: 7.83 min Scan# 546
Delta R.T. -0.02 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

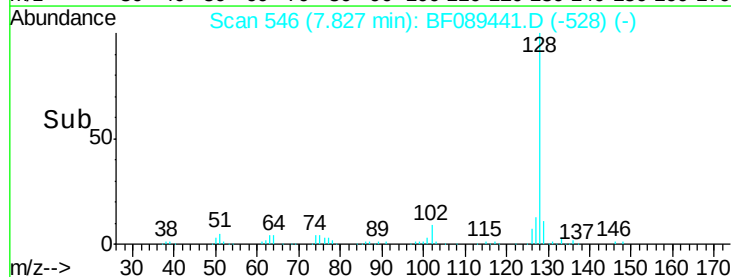
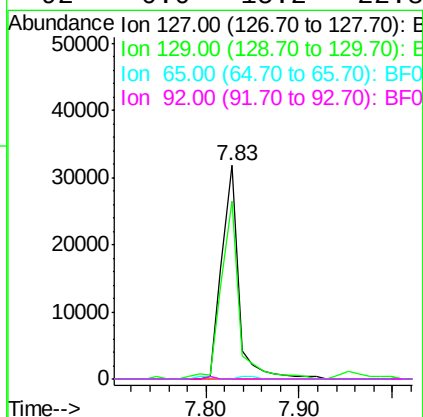
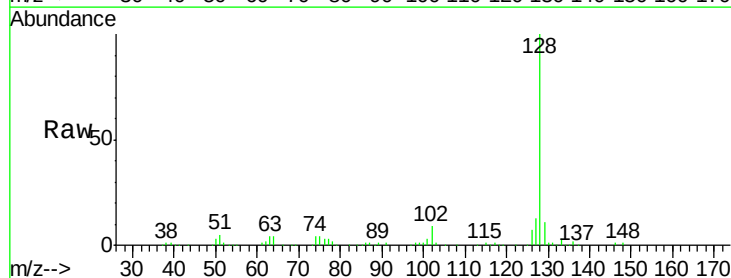
Instrument :
BNA_F
ClientSampleId :

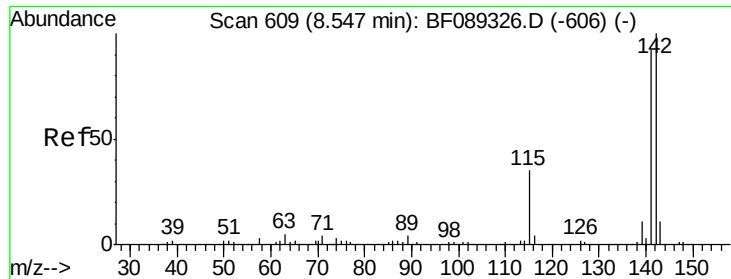
Tot Ion:128 Resp: 305553
Ion Ratio Lower Upper
128 100
129 11.1 8.8 13.2
127 13.2 10.8 16.2



#33
4-Chloroaniline
Concen: 16.15 ng
RT: 7.83 min Scan# 546
Delta R.T. -0.09 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion:127 Resp: 40067
Ion Ratio Lower Upper
127 100
129 83.6 26.1 39.1#
65 0.0 22.0 33.0#
92 0.0 15.2 22.8#

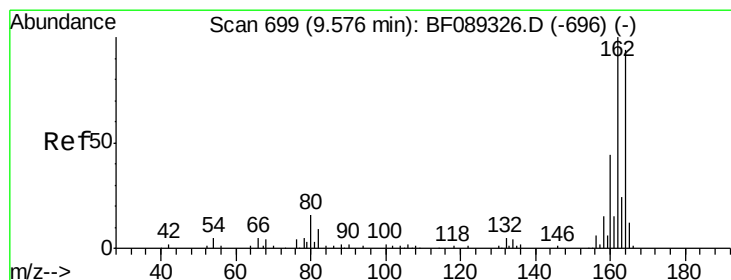
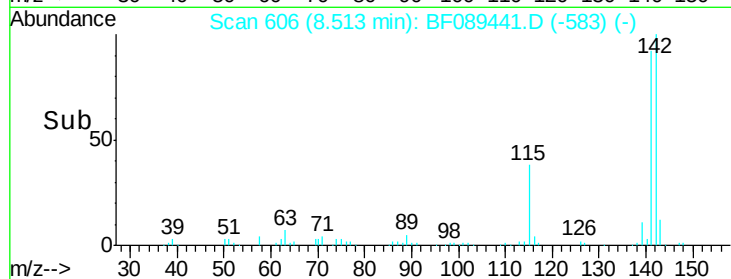
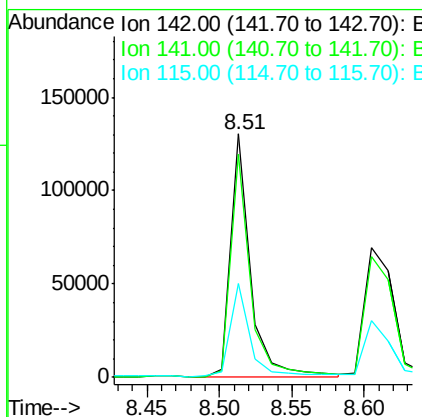
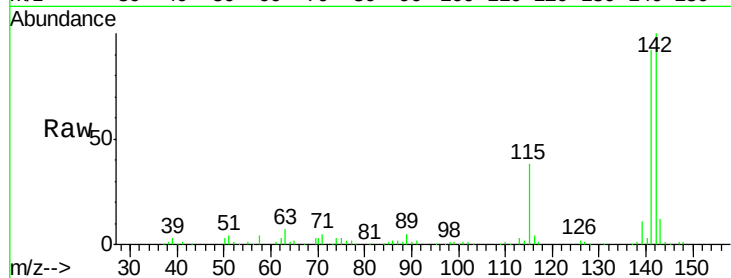




#37
2-Methylnaphthalene
Concen: 31.36 ng
RT: 8.51 min Scan# 606
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

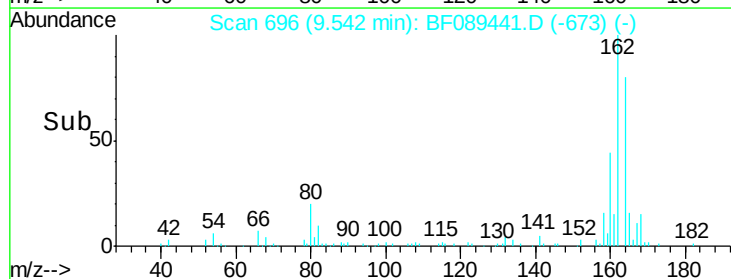
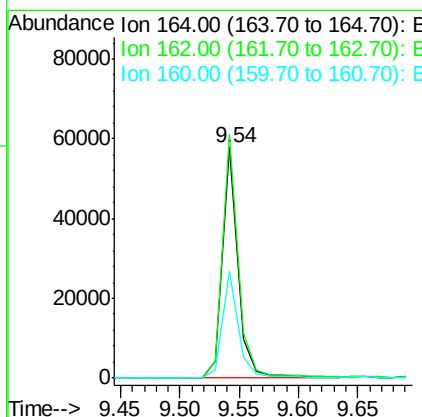
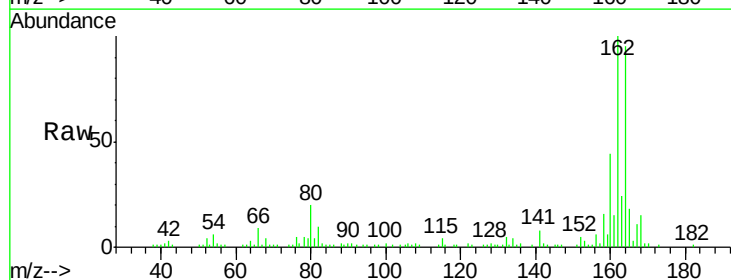
Instrument :
BNA_F
ClientSampleId :

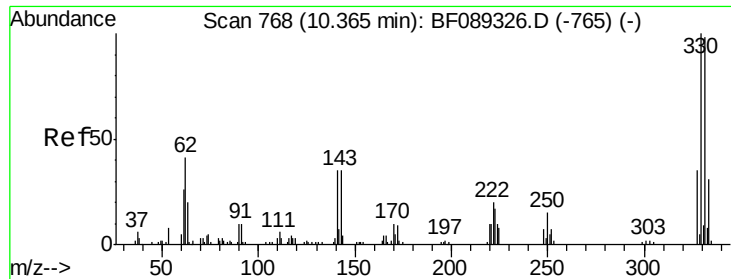
Tot Ion	Ratio	Lower	Upper
142	100		
141	91.6	70.9	106.3
115	38.4	27.6	41.4



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.54 min Scan# 696
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.5	83.7	125.5
160	46.3	37.8	56.6

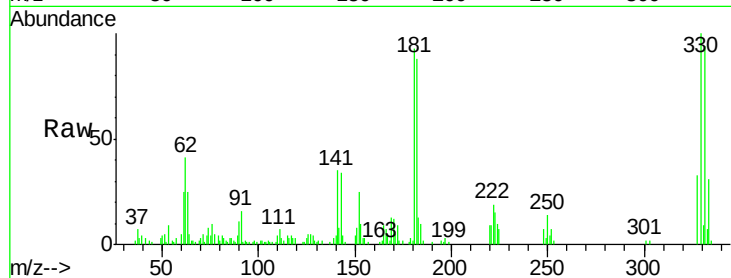




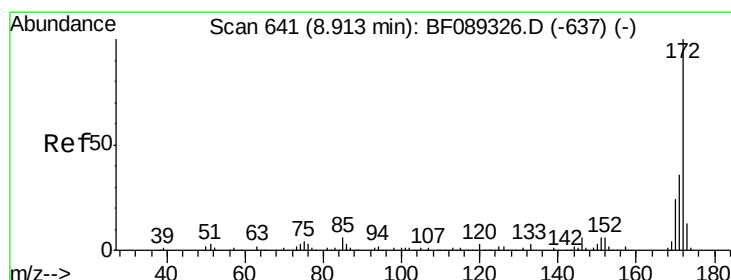
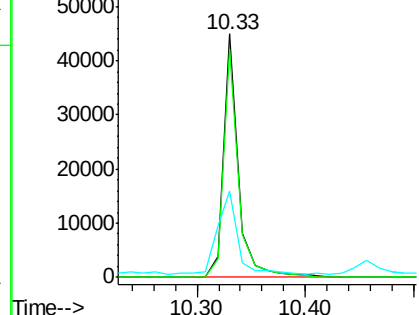
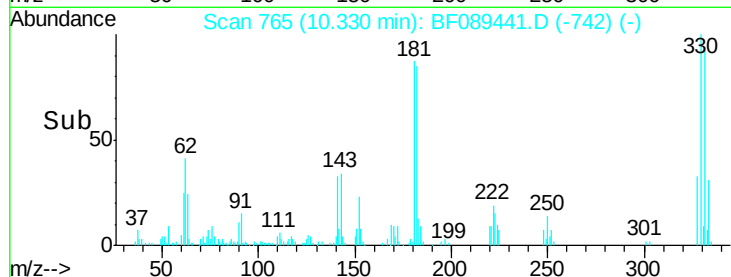
#41
 2,4,6-Tribromophenol
 Concen: 99.17 ng
 RT: 10.33 min Scan# 765
 Delta R.T. -0.03 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.0	76.8	115.2
141	48.2	37.3	55.9

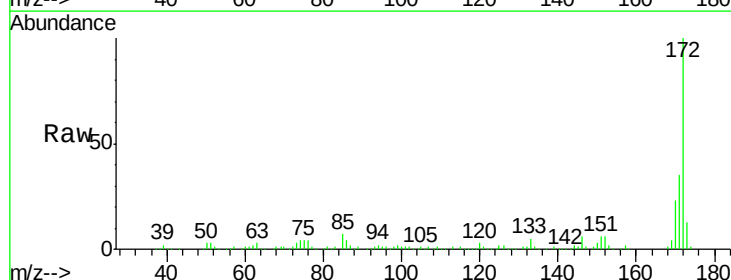


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

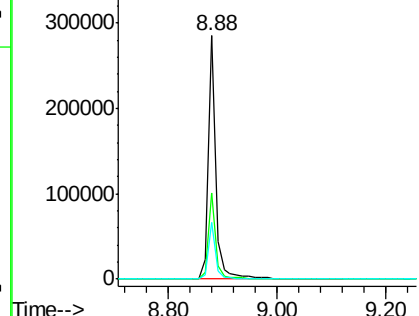
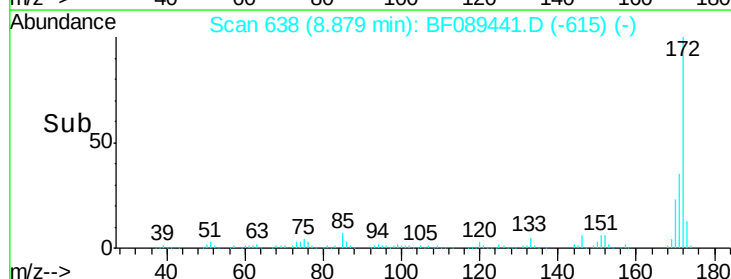


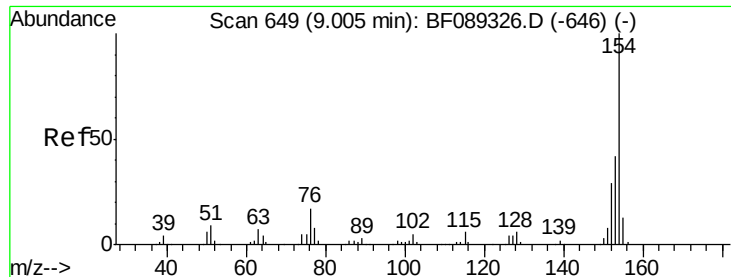
#44
 2-Fluorobiphenyl
 Concen: 75.83 ng
 RT: 8.88 min Scan# 638
 Delta R.T. -0.03 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.2	43.8
170	23.2	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

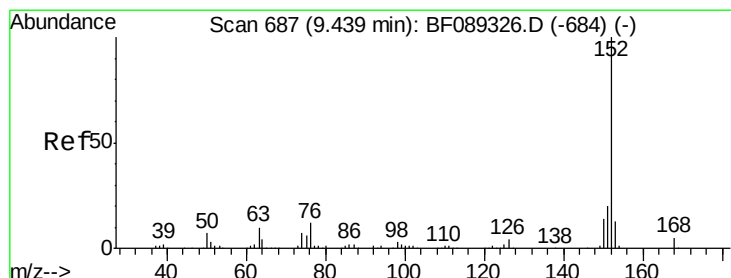
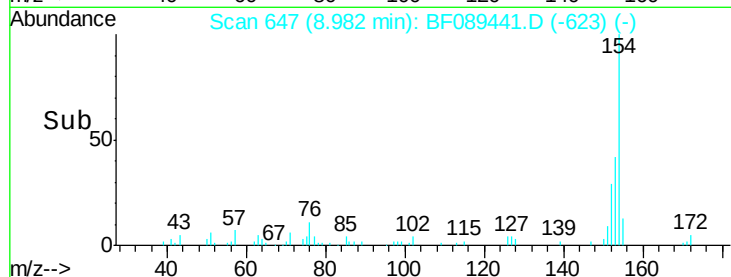
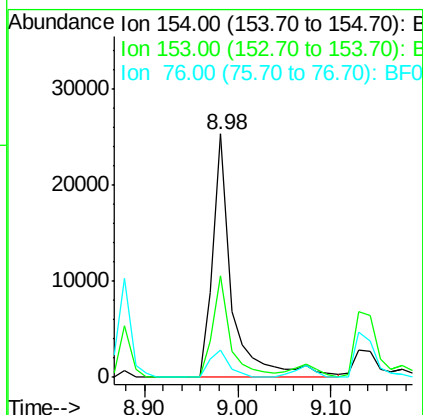
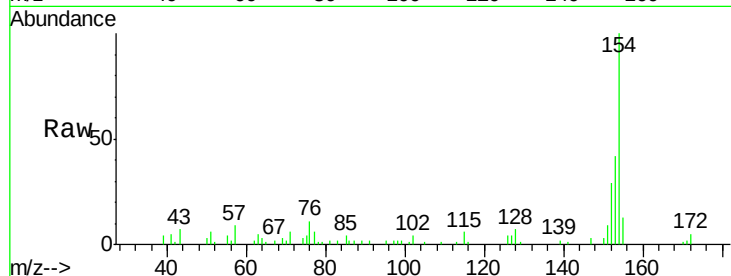




#45
 1,1'-Biphenyl
 Concen: 8.21 ng
 RT: 8.98 min Scan# 647
 Delta R.T. -0.02 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

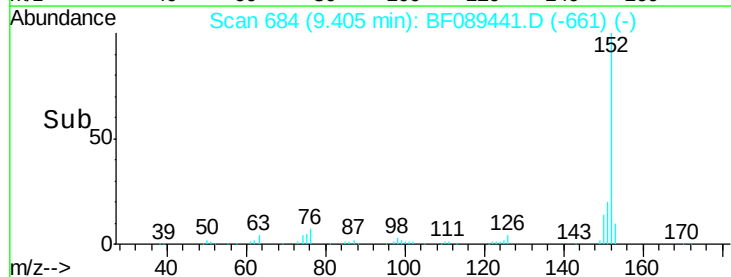
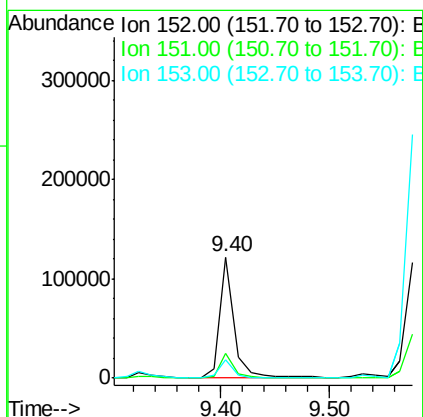
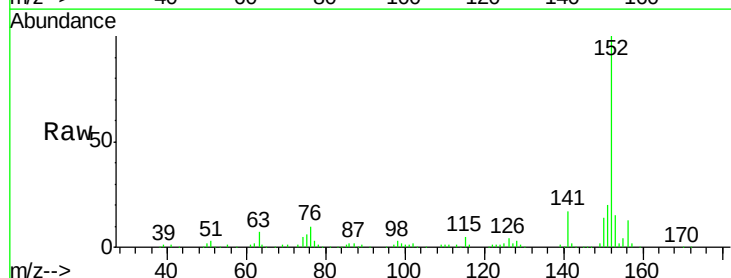
Instrument :
 BNA_F
 ClientSampleId :

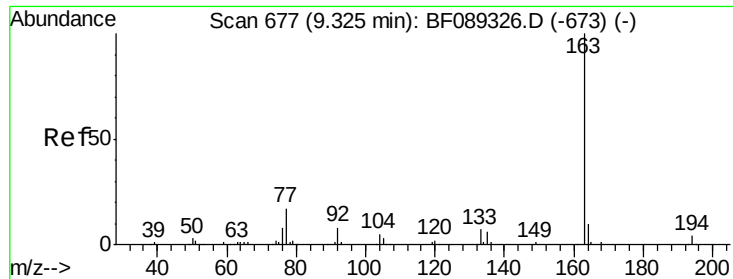
Tot Ion:154 Resp: 36522
 Ion Ratio Lower Upper
 154 100
 153 41.8 21.0 61.0
 76 11.2 0.0 36.6



#48
 Acenaphthylene
 Concen: 21.75 ng
 RT: 9.40 min Scan# 684
 Delta R.T. -0.03 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Tgt Ion:152 Resp: 114420
 Ion Ratio Lower Upper
 152 100
 151 20.5 16.2 24.2
 153 14.8 10.2 15.4

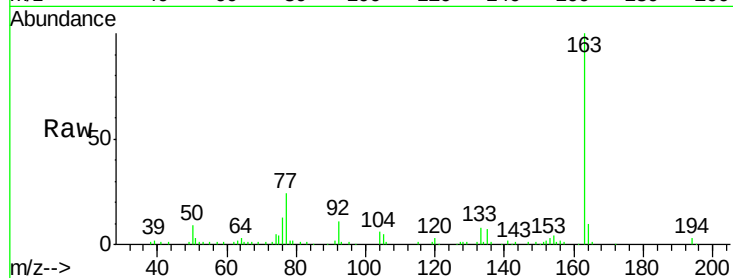




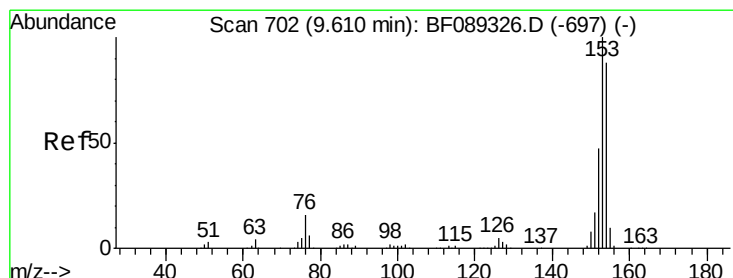
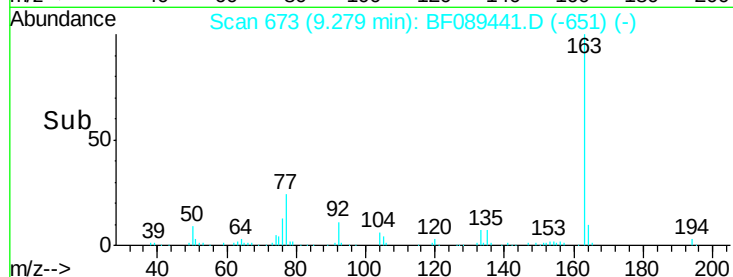
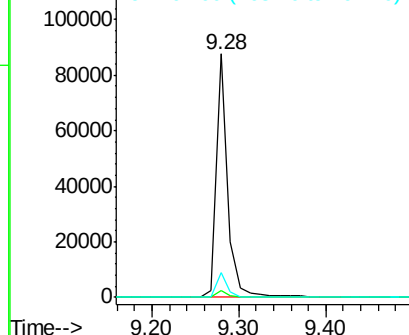
#49
Dimethylphthalate
Concen: 20.53 ng
RT: 9.28 min Scan# 673
Delta R.T. -0.05 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Instrument :
BNA_F
ClientSampled :

Tot Ion:163 Resp: 81606
Ion Ratio Lower Upper
163 100
194 3.0 2.8 4.2
164 10.0 7.8 11.8

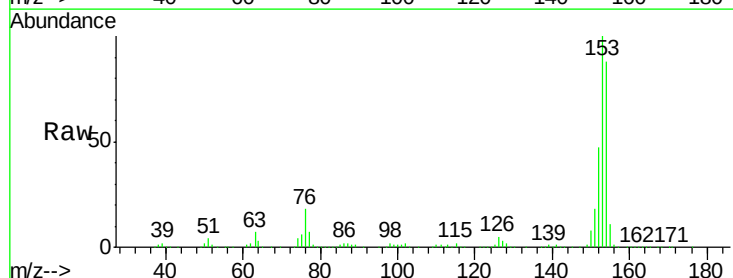


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

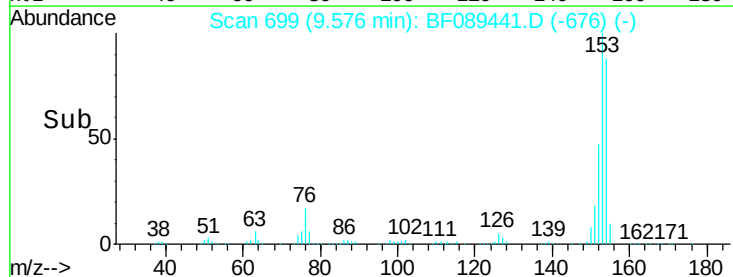
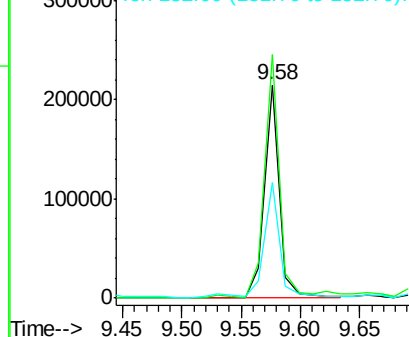


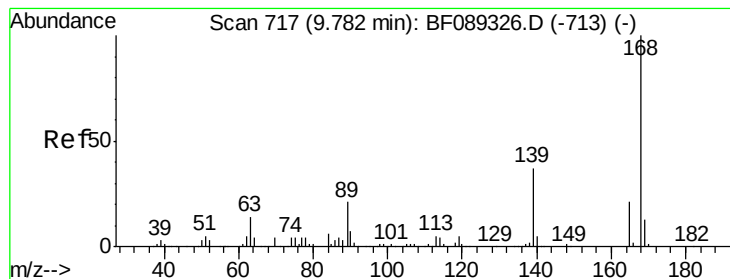
#51
Acenaphthene
Concen: 62.27 ng
RT: 9.58 min Scan# 699
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion:154 Resp: 191264
Ion Ratio Lower Upper
154 100
153 114.2 91.4 137.2
152 54.1 43.8 65.6



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





#54

Dibenzenofuran

Concen: 45.46 ng

RT: 9.75 min Scan# 714

Delta R.T. -0.03 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

ClientSampled :

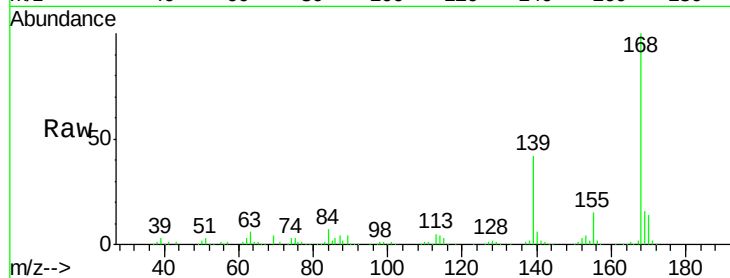
Tot Ion:168 Resp: 190283

Ion Ratio Lower Upper

168 100

139 42.3 33.7 50.5

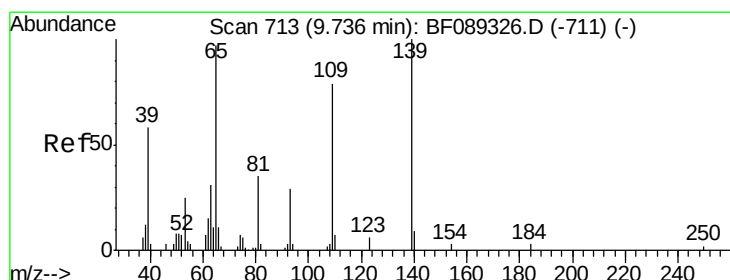
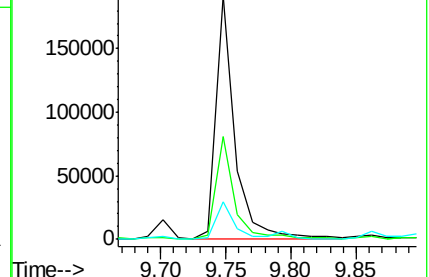
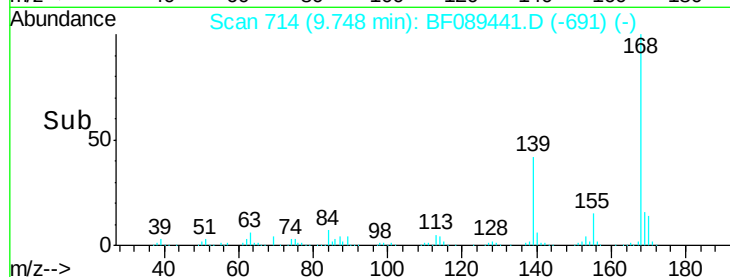
169 15.6 10.7 16.1



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: 11.80 ng

RT: 9.66 min Scan# 706

Delta R.T. -0.08 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

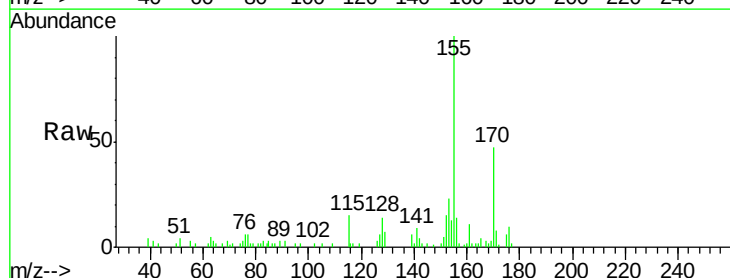
Tgt Ion:139 Resp: 2554

Ion Ratio Lower Upper

139 100

109 24.3 57.8 97.8#

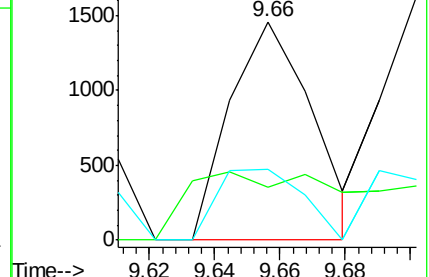
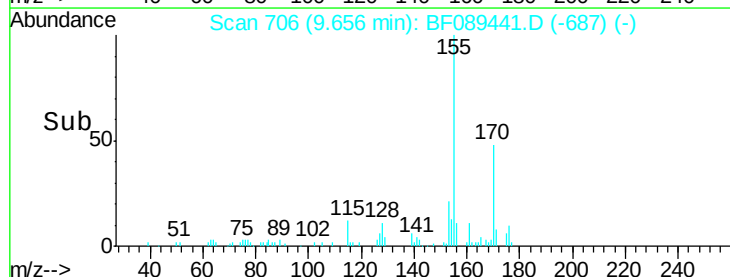
65 32.6 81.7 121.7#

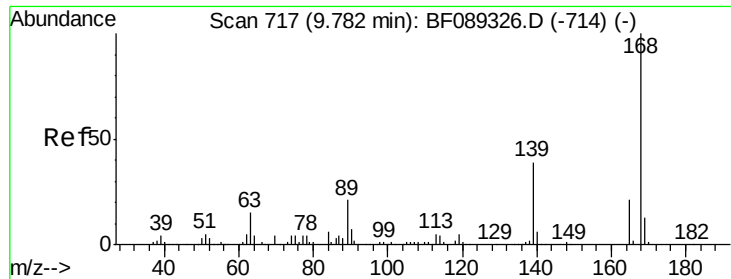


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

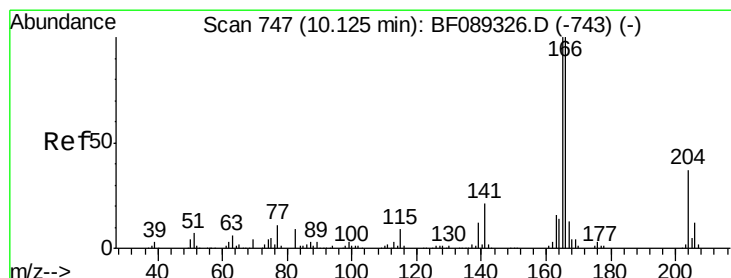
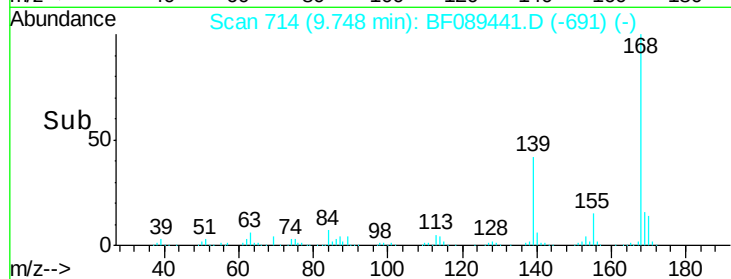
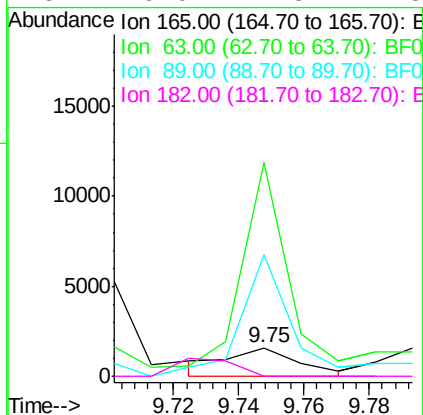
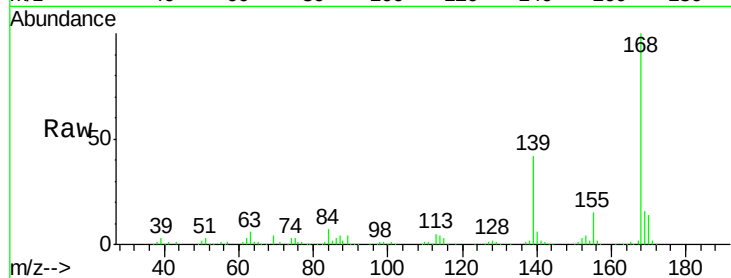




#56
2,4-Dinitrotoluene
Concen: 2.24 ng
RT: 9.75 min Scan# 714
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

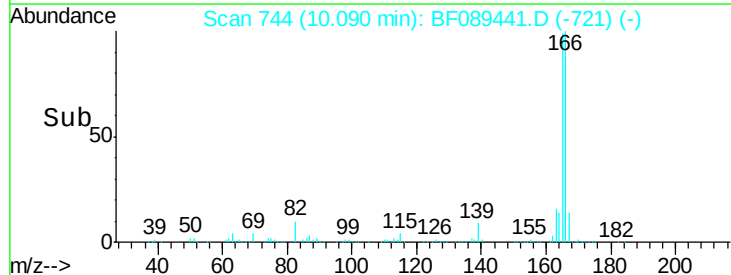
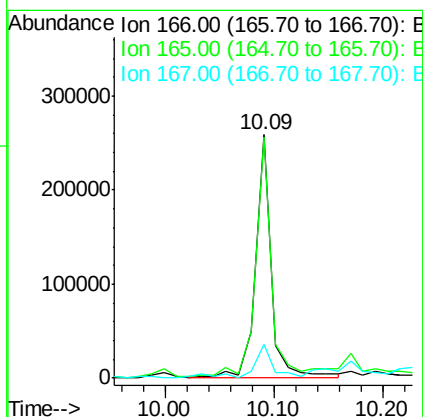
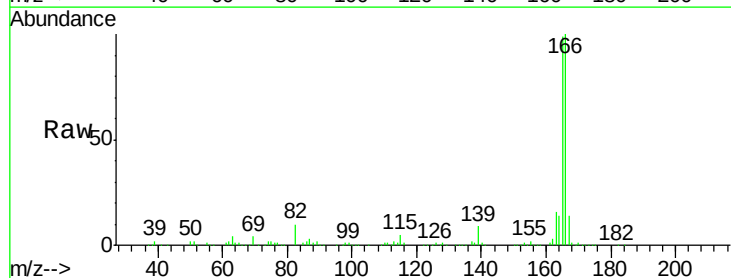
Instrument :
BNA_F
ClientSampleId :

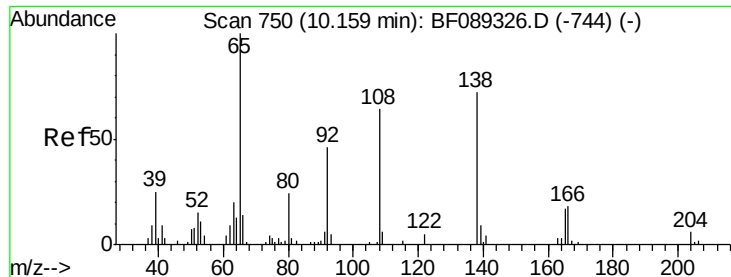
Tot Ion:165 Resp: 2410
Ion Ratio Lower Upper
165 100
63 758.3 58.2 87.2#
89 433.0 79.1 118.7#
182 0.0 1.8 2.8#



#57
Fluorene
Concen: 70.77 ng
RT: 10.09 min Scan# 744
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion:166 Resp: 258583
Ion Ratio Lower Upper
166 100
165 99.3 79.0 118.4
167 13.9 10.2 15.2

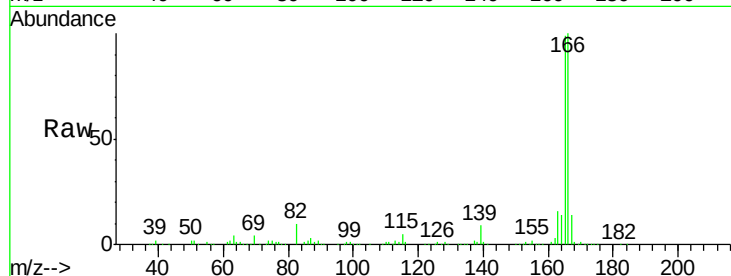




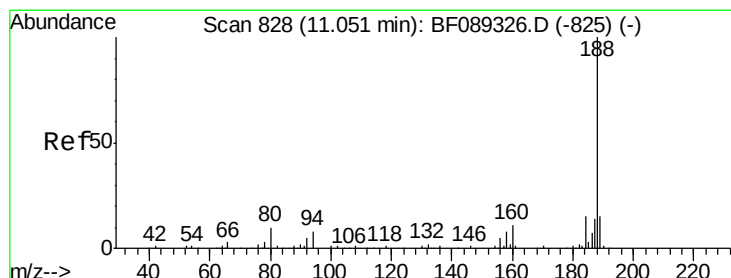
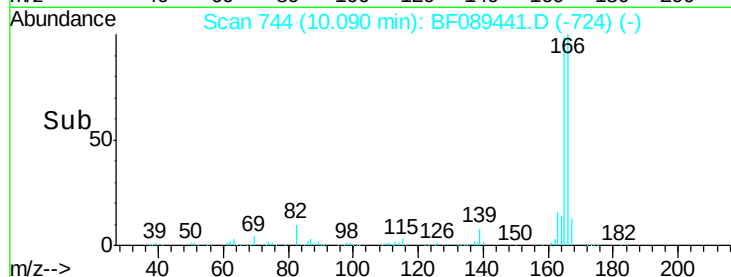
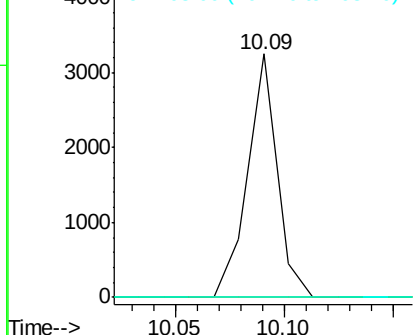
#61
4-Nitroaniline
Concen: 3.46 ng
RT: 10.09 min Scan# 744
Delta R.T. -0.07 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:138 Resp: 3073
Ion Ratio Lower Upper
138 100
92 0.0 41.2 81.2#
108 0.0 69.6 109.6#

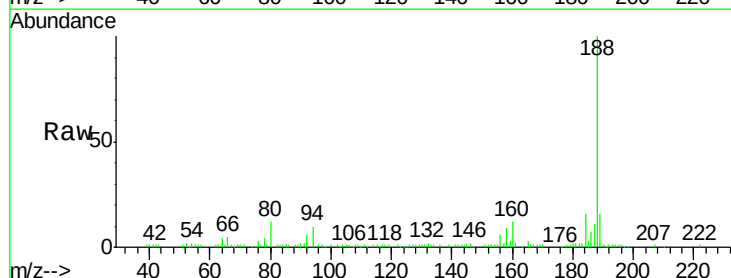


Abundance Ion 138.00 (137.70 to 138.70): E
Ion 92.00 (91.70 to 92.70): BF0
Ion 108.00 (107.70 to 108.70): E

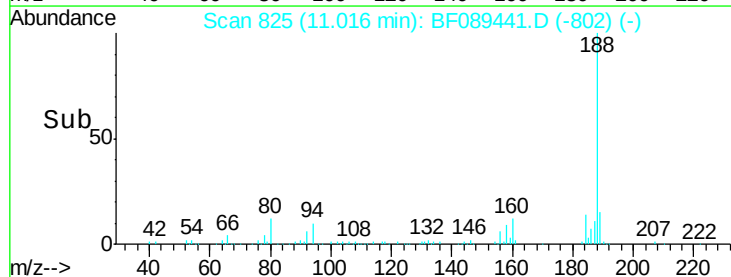
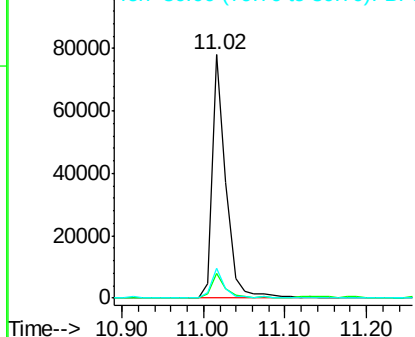


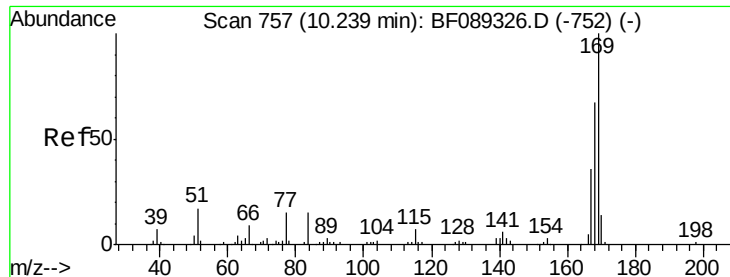
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.02 min Scan# 825
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion:188 Resp: 92059
Ion Ratio Lower Upper
188 100
94 10.4 6.5 9.7#
80 12.1 7.2 10.8#



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





#65

n-Nitrosodiphenylamine

Concen: 4.46 ng

RT: 10.20 min Scan# 754

Delta R.T. -0.03 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

ClientSampled :

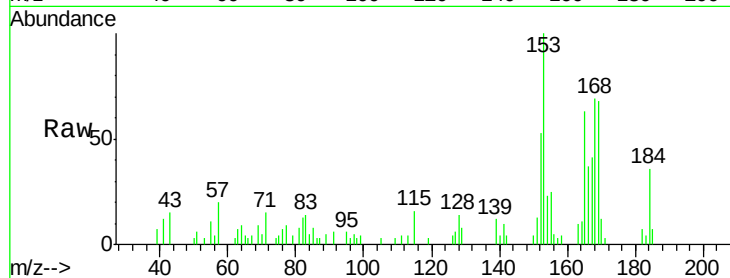
Tot Ion:169 Resp: 12820

Ion Ratio Lower Upper

169 100

168 101.1 55.4 83.0#

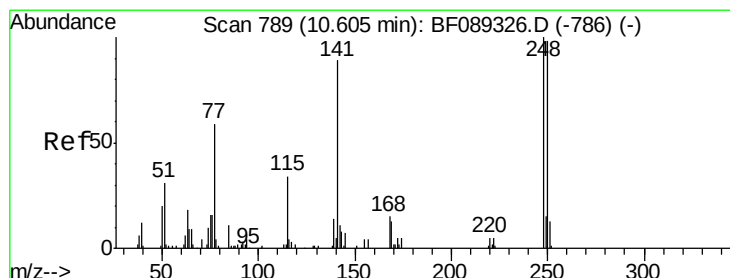
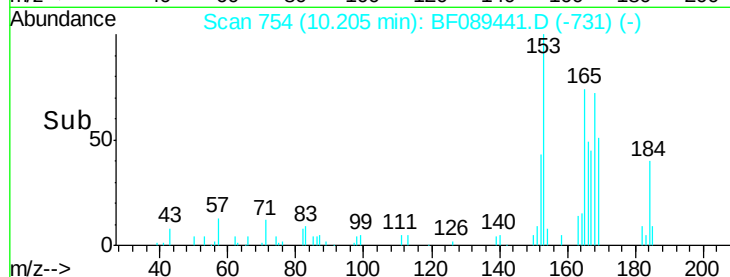
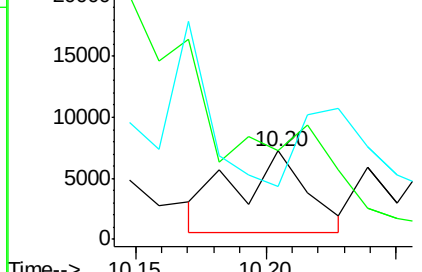
167 60.3 29.7 44.5#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.56 ng

RT: 10.33 min Scan# 765

Delta R.T. -0.27 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

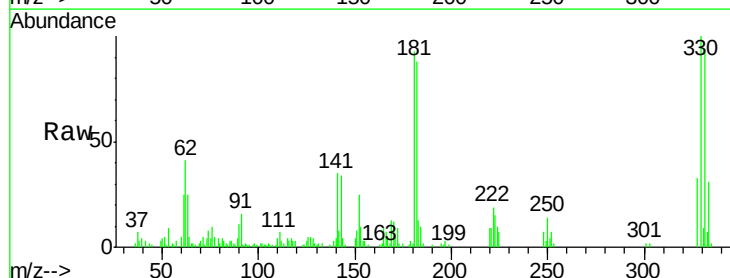
Tgt Ion:248 Resp: 3132

Ion Ratio Lower Upper

248 100

250 192.7 78.2 117.2#

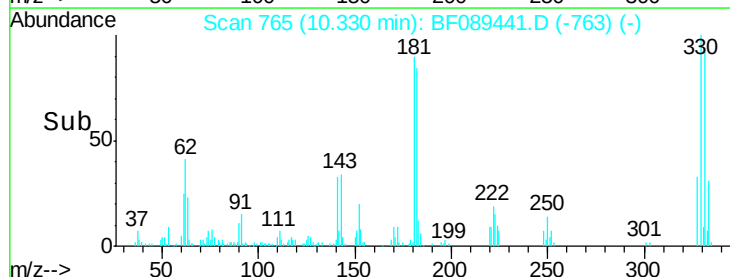
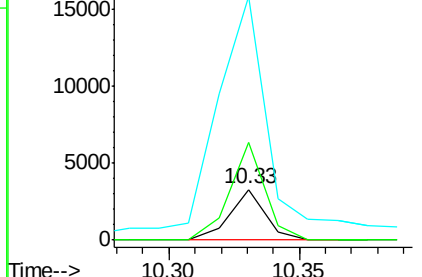
141 477.9 62.0 93.0#

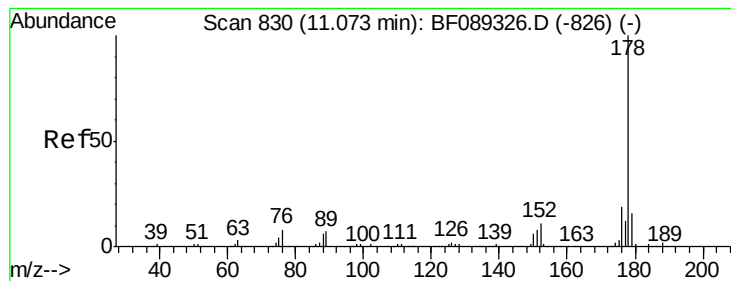


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 201.14 ng

RT: 11.05 min Scan# 828

Delta R.T. -0.02 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

ClientSampleId :

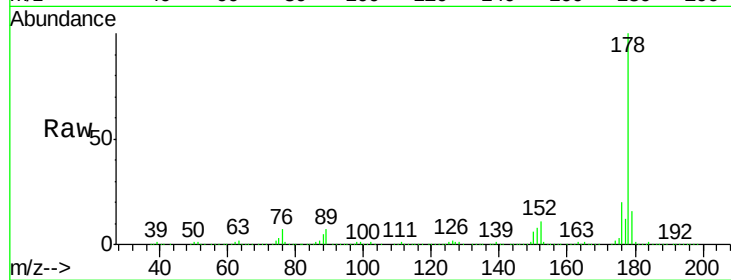
Tot Ion:178 Resp: 955007

Ion Ratio Lower Upper

178 100

176 19.8 15.5 23.3

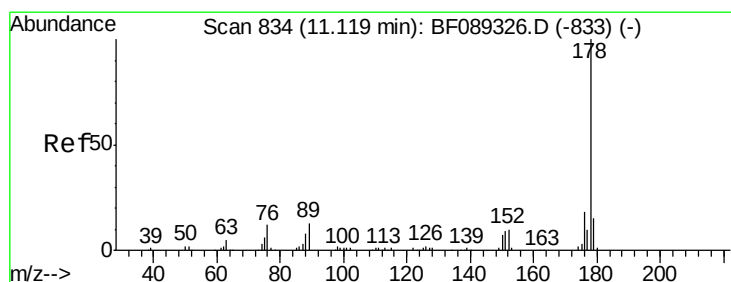
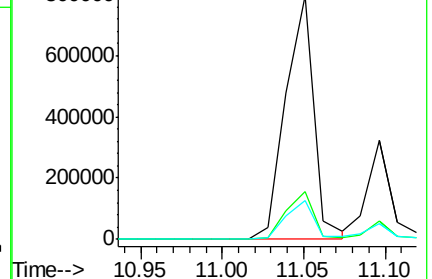
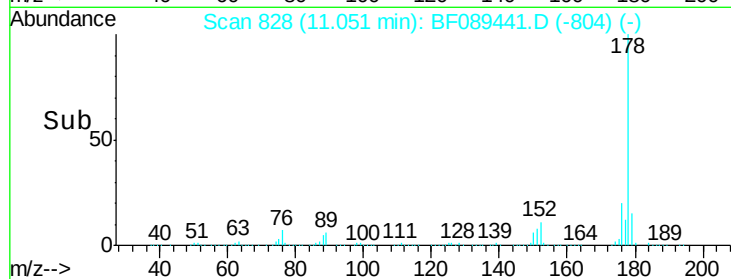
179 15.7 12.3 18.5



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: 68.24 ng

RT: 11.10 min Scan# 832

Delta R.T. -0.02 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

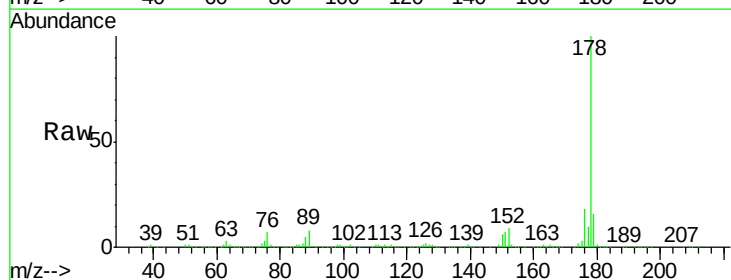
Tgt Ion:178 Resp: 360206

Ion Ratio Lower Upper

178 100

176 18.4 14.8 22.2

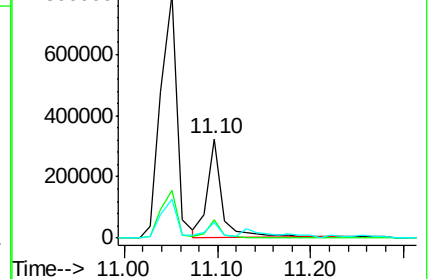
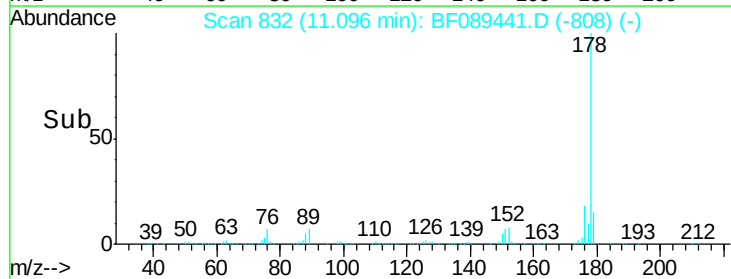
179 15.6 12.6 18.8

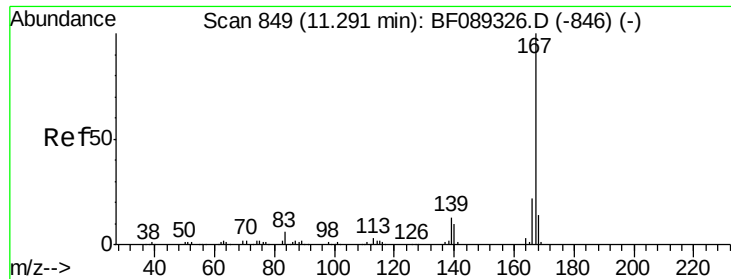


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 15.17 ng

RT: 11.26 min Scan# 846

Delta R.T. -0.03 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

ClientSampleId :

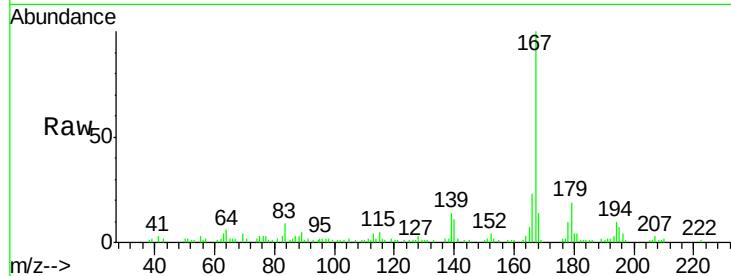
Tot Ion:167 Resp: 67398

Ion Ratio Lower Upper

167 100

166 22.8 17.6 26.4

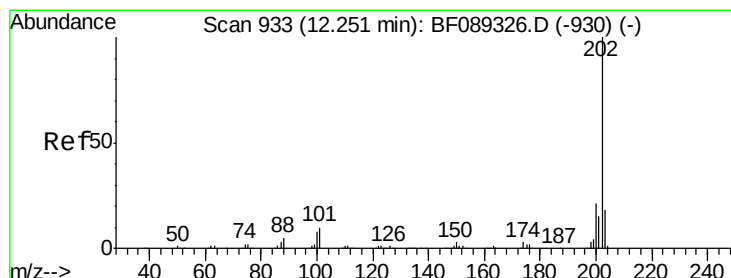
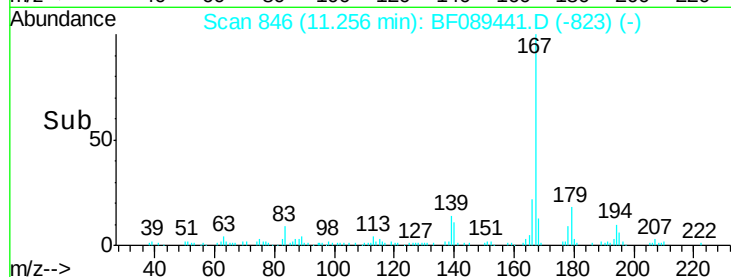
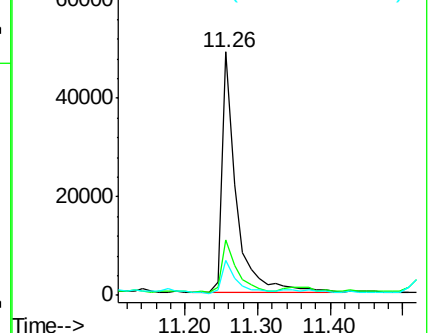
139 14.5 10.1 15.1



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: 280.62 ng

RT: 12.24 min Scan# 932

Delta R.T. -0.01 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

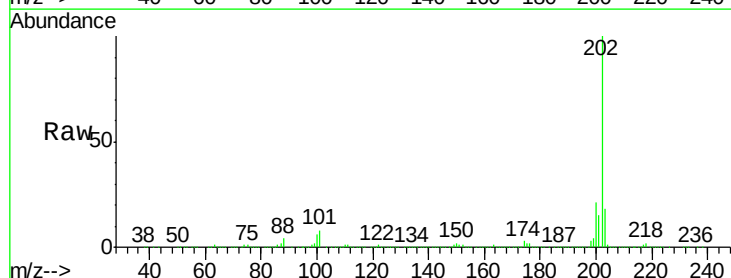
Tgt Ion:202 Resp: 1401510

Ion Ratio Lower Upper

202 100

101 7.5 0.0 29.9

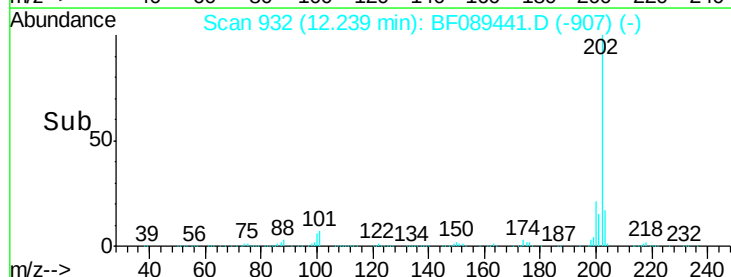
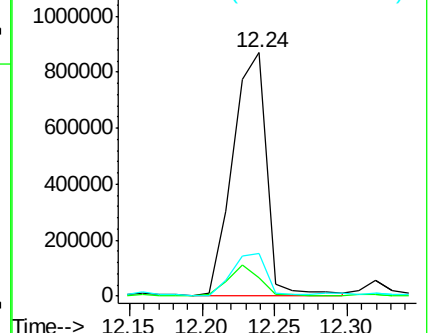
203 17.6 0.0 37.3

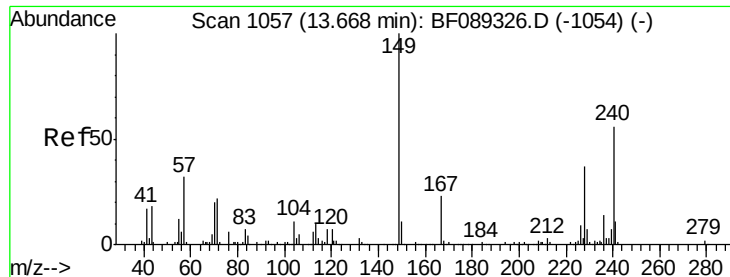


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.65 min Scan# 1055

Delta R.T. -0.02 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

ClientSampleId :

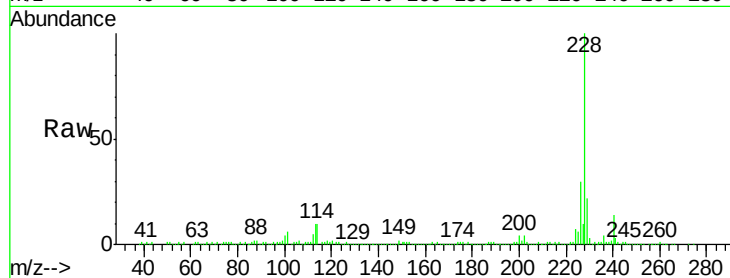
Tot Ion:240 Resp: 90859

Ion Ratio Lower Upper

240 100

120 17.3 9.1 13.7#

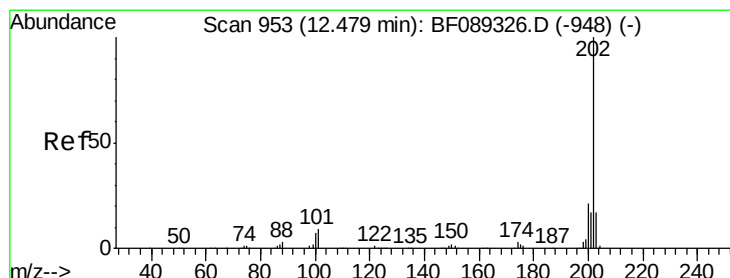
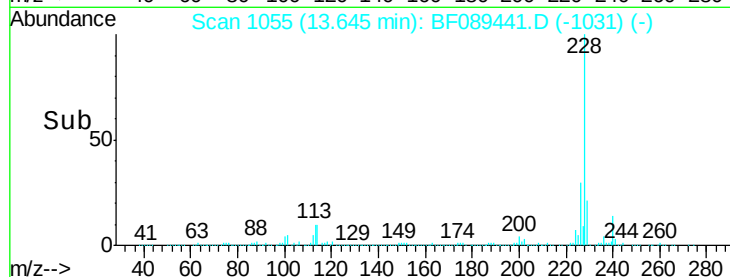
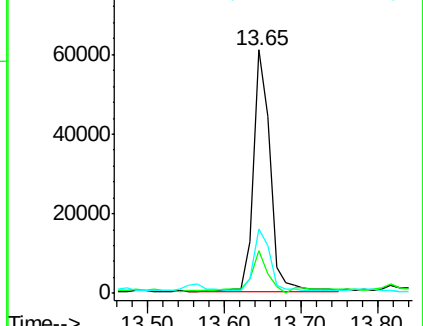
236 26.3 20.6 30.8



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: 167.27 ng

RT: 12.46 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

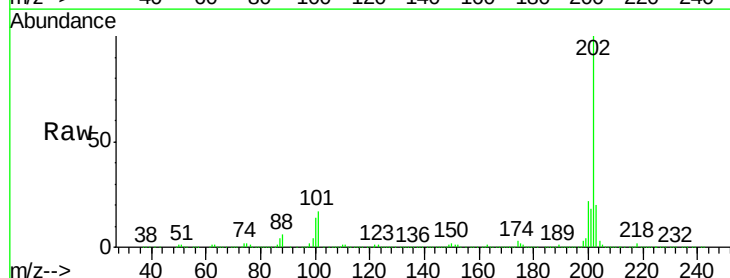
Tgt Ion:202 Resp: 1151850

Ion Ratio Lower Upper

202 100

200 22.1 16.9 25.3

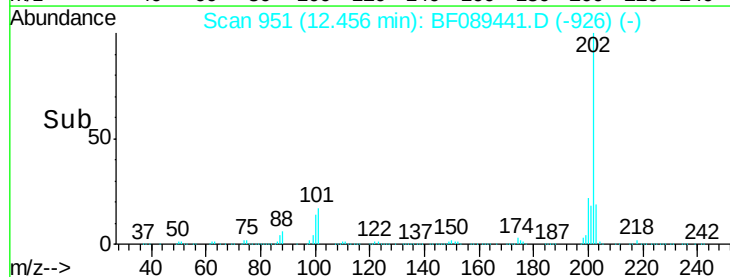
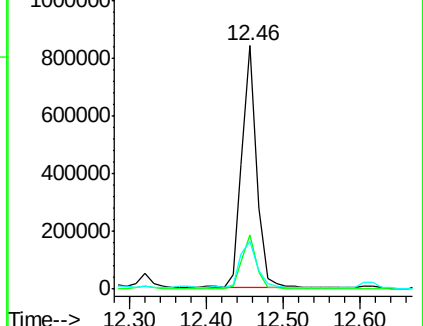
203 19.7 14.0 21.0

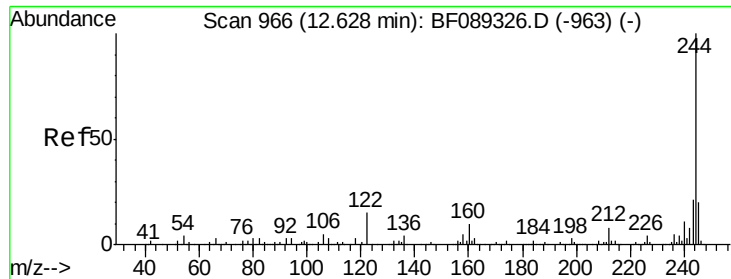


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

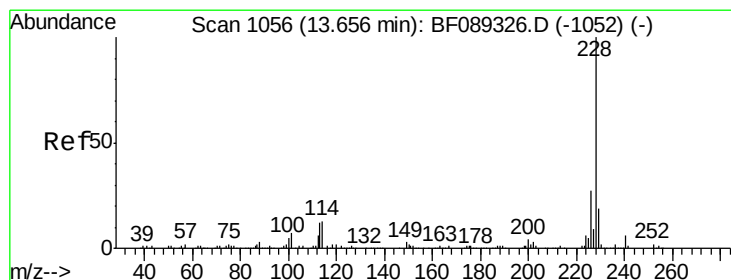
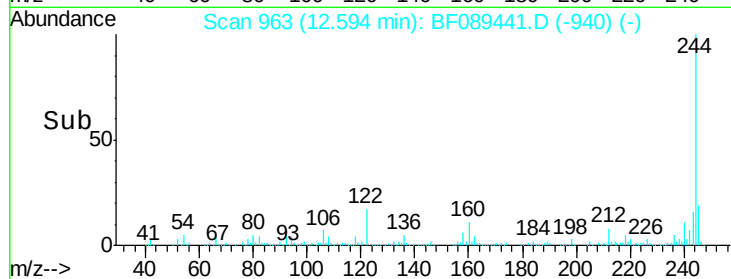
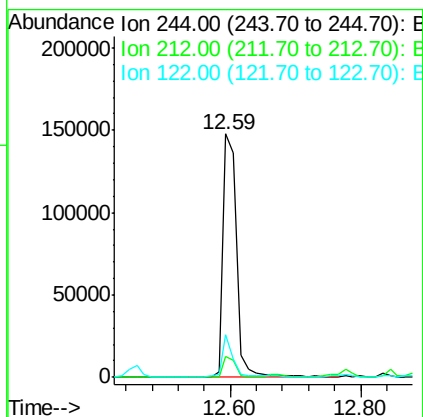
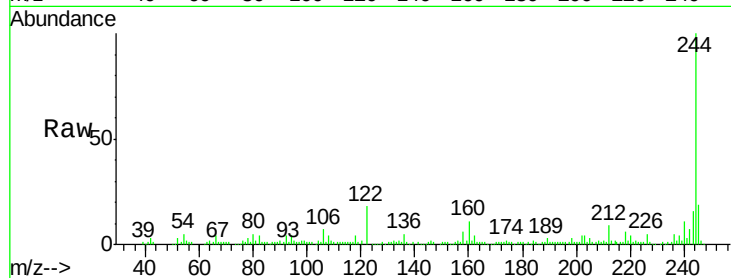




#78
 Terphenyl-d14
 Concen: 56.20 ng
 RT: 12.59 min Scan# 963
 Delta R.T. -0.03 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

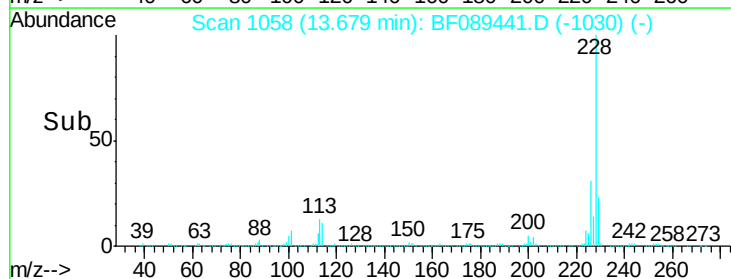
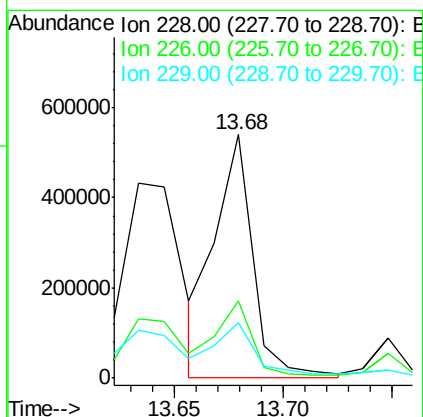
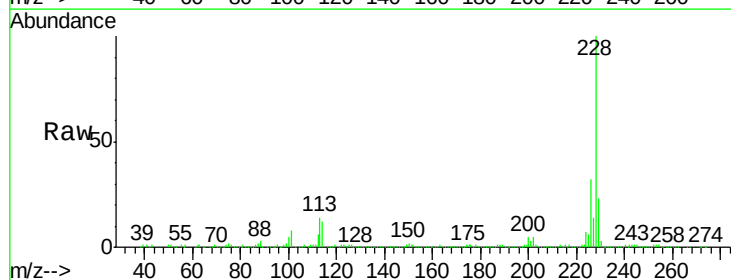
Instrument :
 BNA_F
 ClientSampled :

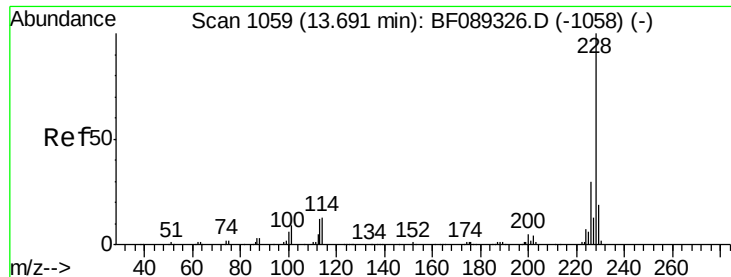
Tot Ion	Ratio	Lower	Upper
244	100		
212	8.6	6.5	9.7
122	17.6	11.4	17.0



#80
 Benzo(a)anthracene
 Concen: 126.55 ng
 RT: 13.68 min Scan# 1058
 Delta R.T. 0.02 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	21.4	32.2
229	22.9	15.9	23.9

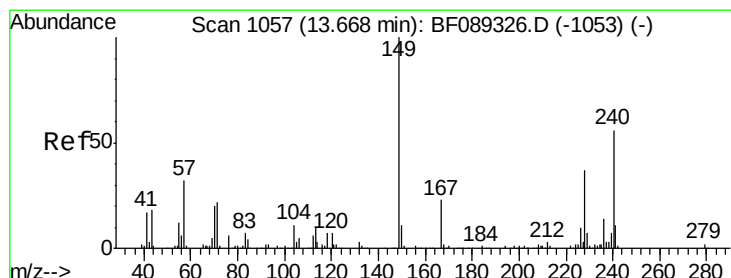
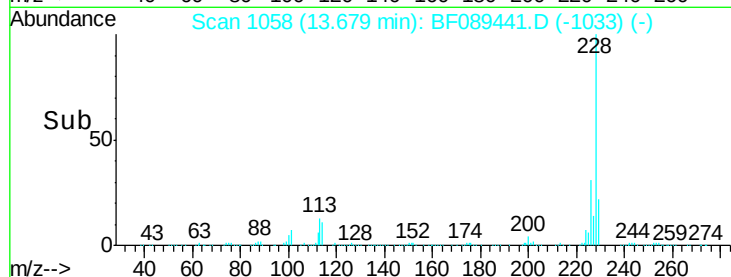
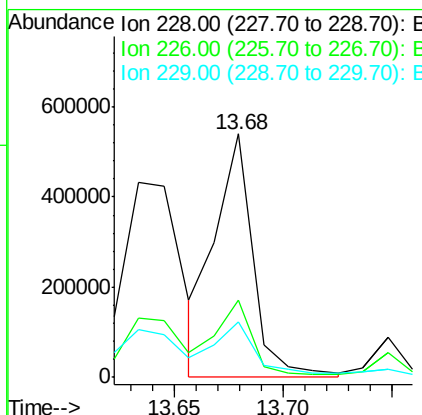
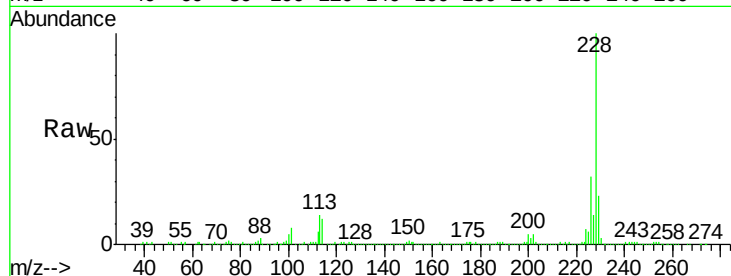




#82
 Chrysene
 Concen: 118.98 ng
 RT: 13.68 min Scan# 1058
 Delta R.T. -0.01 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

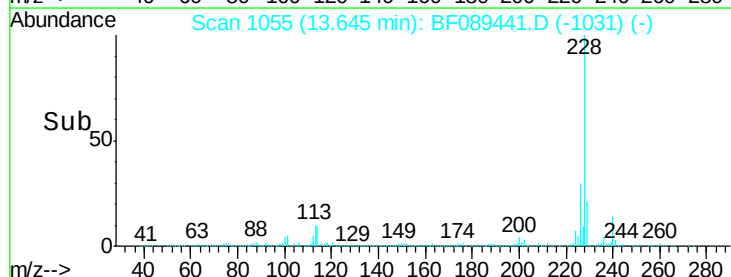
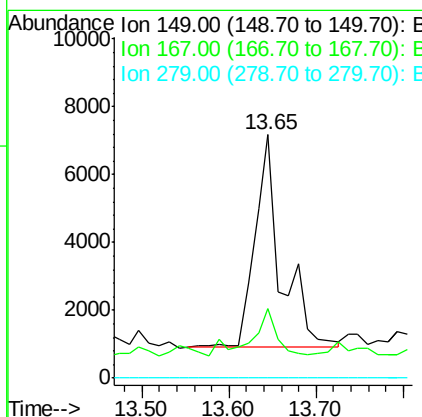
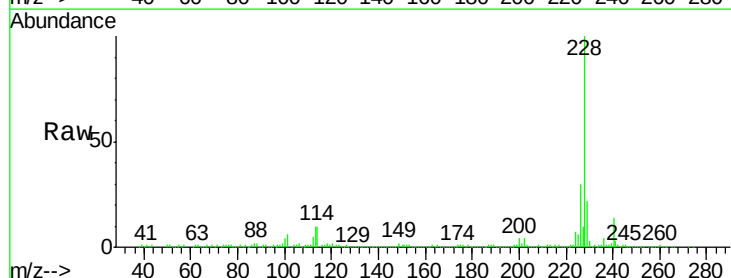
Instrument :
 BNA_F
 ClientSampleId :

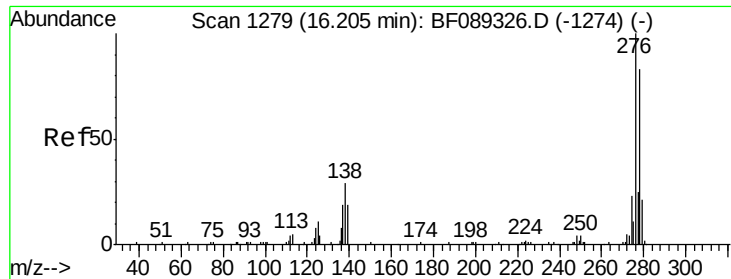
Tot Ion:228 Resp: 649400
 Ion Ratio Lower Upper
 228 100
 226 31.7 24.2 36.2
 229 22.9 15.9 23.9



#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.89 ng
 RT: 13.65 min Scan# 1055
 Delta R.T. -0.02 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Tgt Ion:149 Resp: 13093
 Ion Ratio Lower Upper
 149 100
 167 28.4 18.8 28.2#
 279 0.0 1.4 2.0#





#85

Indeno(1,2,3-cd)pyrene

Concen: 81.08 ng

RT: 16.18 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

ClientSampleId :

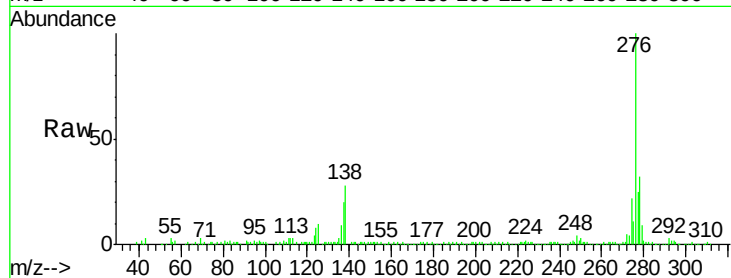
Tot Ion:276 Resp: 314638

Ion Ratio Lower Upper

276 100

138 27.5 23.0 34.4

277 25.5 20.2 30.4

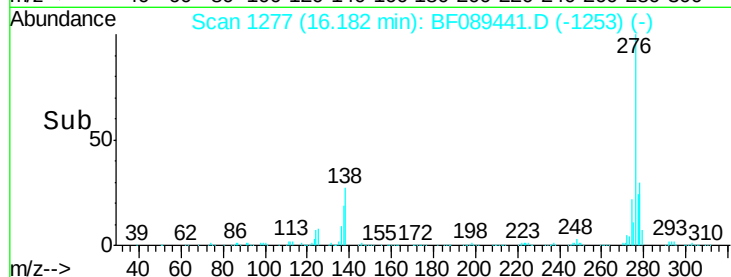


Abundance Ion 276.00 (275.70 to 276.70): E

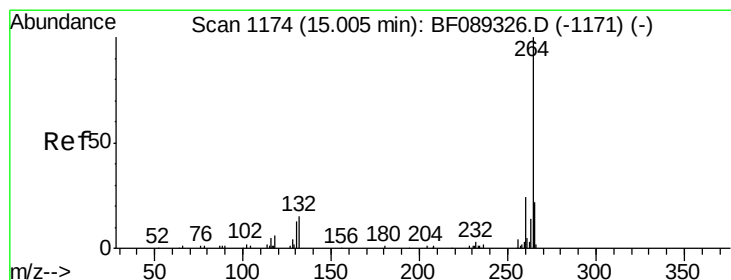
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

16.18



Time-->



#86

Perylene-d12

Concen: 20.00 ng

RT: 14.99 min Scan# 1173

Delta R.T. -0.01 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

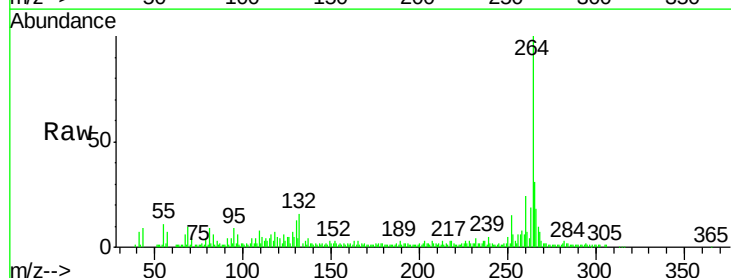
Tgt Ion:264 Resp: 104386

Ion Ratio Lower Upper

264 100

260 24.2 19.0 28.4

265 30.9 17.5 26.3#

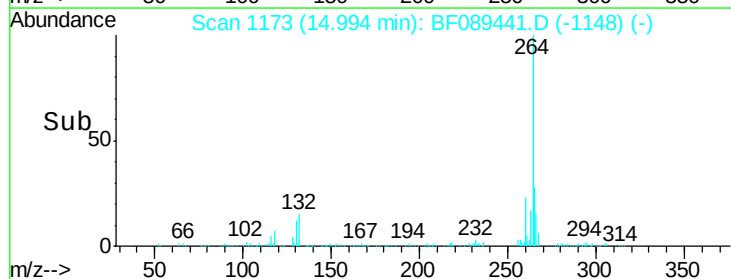


Abundance Ion 264.00 (263.70 to 264.70): E

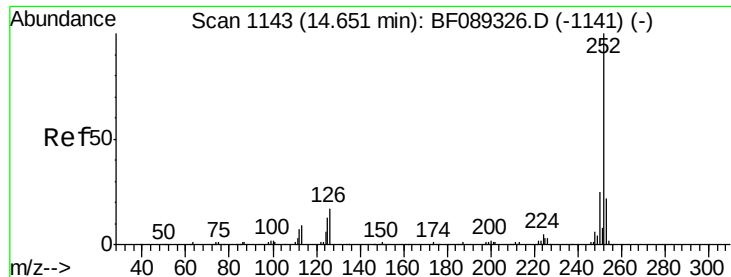
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

14.99



Time-->



#87

Benzo(b)fluoranthene

Concen: 180.37 ng

RT: 14.65 min Scan# 1143

Delta R.T. 0.00 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

ClientSampleId :

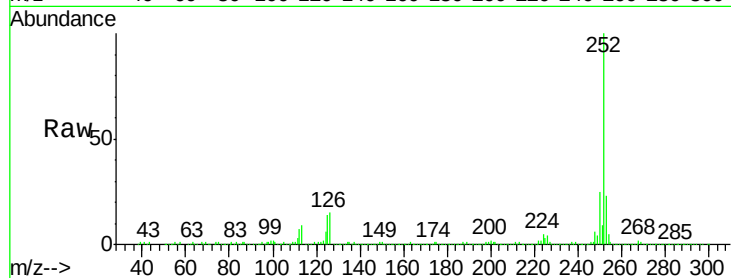
Tot Ion:252 Resp: 1169258

Ion Ratio Lower Upper

252 100

253 23.3 17.2 25.8

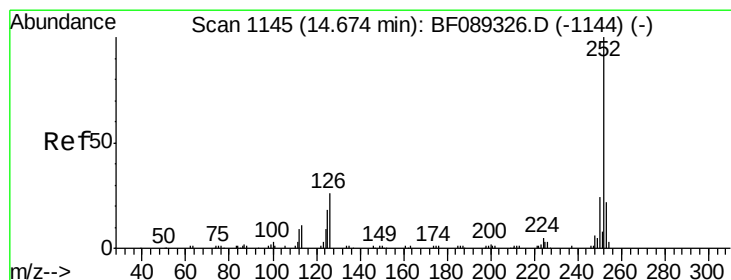
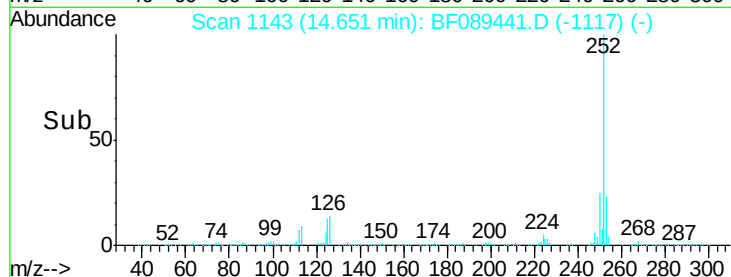
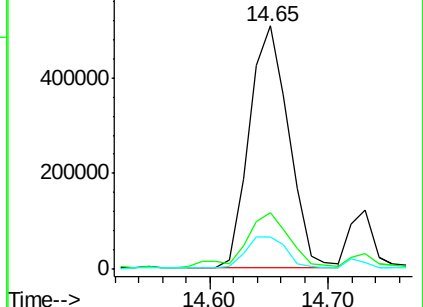
125 13.6 9.7 14.5



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: 196.19 ng

RT: 14.65 min Scan# 1143

Delta R.T. -0.02 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

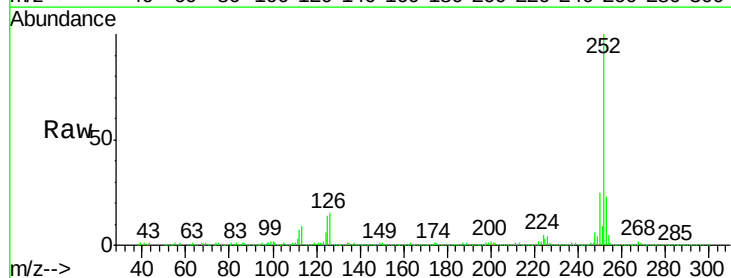
Tgt Ion:252 Resp: 1169258

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.8

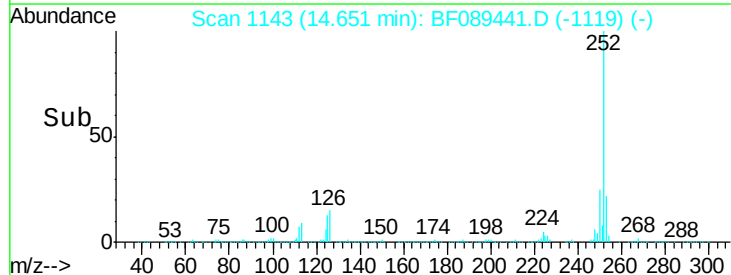
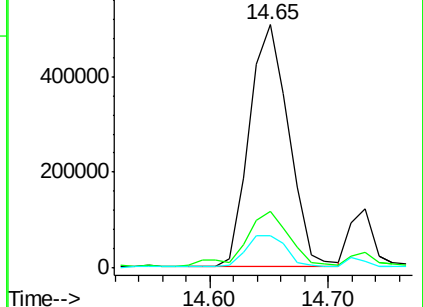
125 13.6 10.7 16.1

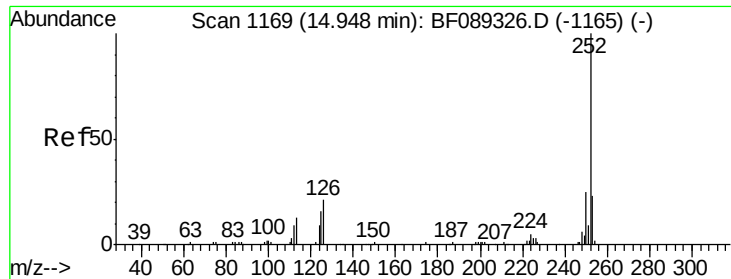


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 103.51 ng

RT: 14.95 min Scan# 1169

Delta R.T. 0.00 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

ClientSampleId :

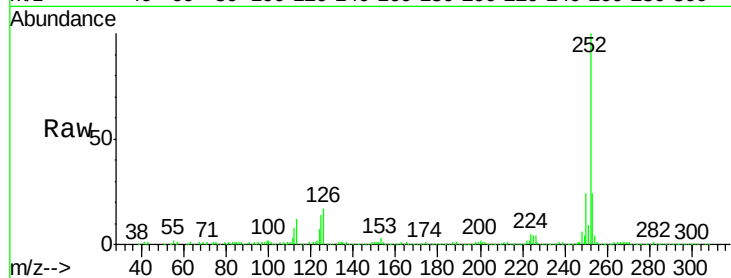
Tot Ion:252 Resp: 601956

Ion Ratio Lower Upper

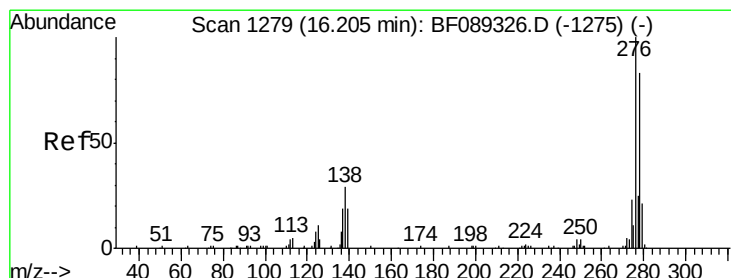
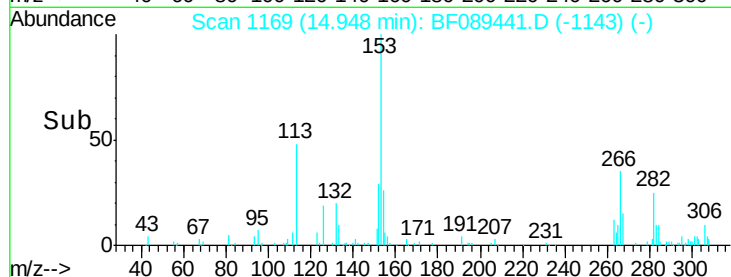
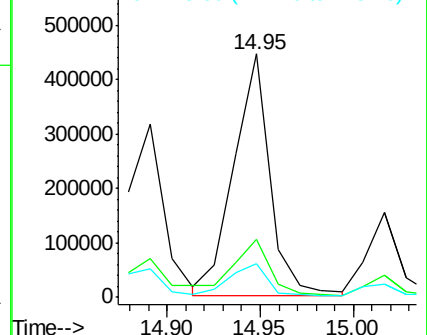
252 100

253 23.7 17.4 26.2

125 14.1 12.4 18.6



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



#90

Dibenzo(a,h)anthracene

Concen: 21.03 ng

RT: 16.18 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

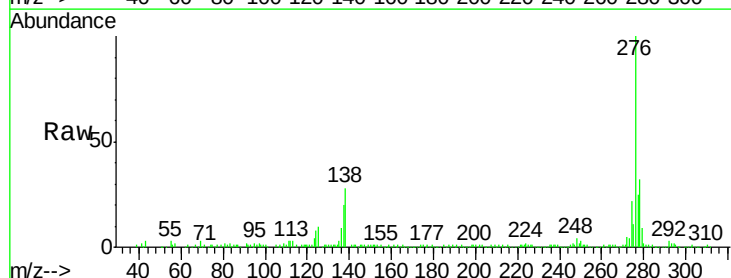
Tgt Ion:278 Resp: 96348

Ion Ratio Lower Upper

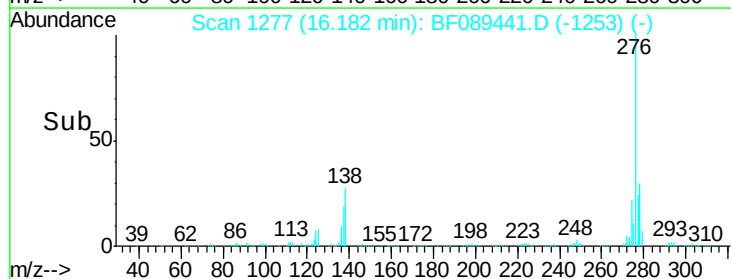
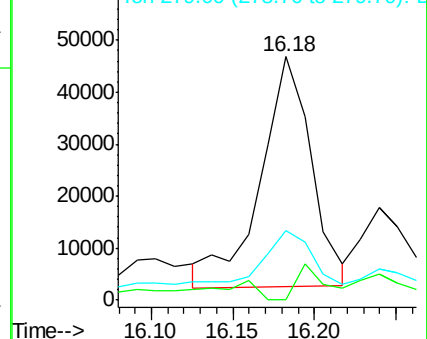
278 100

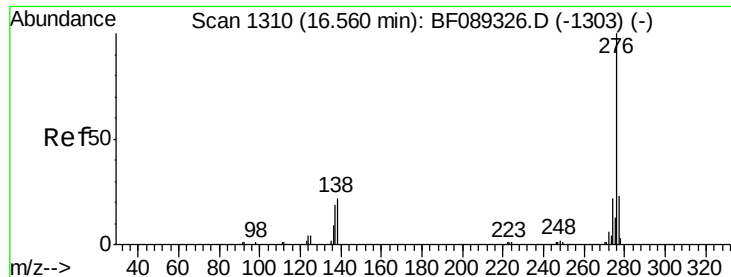
139 0.0 16.3 24.5#

279 28.3 19.1 28.7



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E

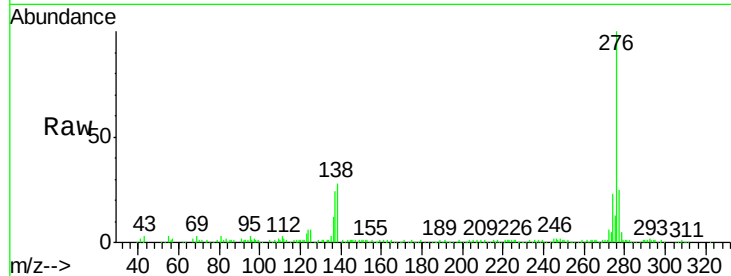




#91
 Benzo(a,h,i)perylene
 Concen: 59.38 ng
 RT: 16.54 min Scan# 1308
 Delta R.T. -0.01 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.6	28.0
138	27.5	21.4	32.0



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

