

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
 Data File : BF090989.D
 Acq On : 2 Nov 2016 19:35
 Operator : UM/SJ
 Sample : H5509-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-91-3.0-3.5

Quant Time: Nov 02 23:13:19 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 01 11:53:50 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	164032	20.00	ng	-0.03
21) Naphthalene-d8	8.01	136	652324	20.00	ng	-0.03
38) Acenaphthene-d10	9.77	164	301760	20.00	ng	-0.02
63) Phenanthrene-d10	11.24	188	459530	20.00	ng	-0.02
75) Chrysene-d12	13.88	240	339210	20.00	ng	-0.02
86) Perylene-d12	15.29	264	325586	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.32	112	1281241	136.57	ng	-0.01
7) Phenol-d6	6.37	99	1733523	136.96	ng	-0.02
23) Nitrobenzene-d5	7.29	82	1058557	106.23	ng	-0.03
41) 2,4,6-Tribromophenol	10.56	330	407250	131.32	ng	-0.02
44) 2-Fluorobiphenyl	9.09	172	1428282	83.11	ng	-0.02
78) Terphenyl-d14	12.83	244	930944	69.14	ng	-0.02

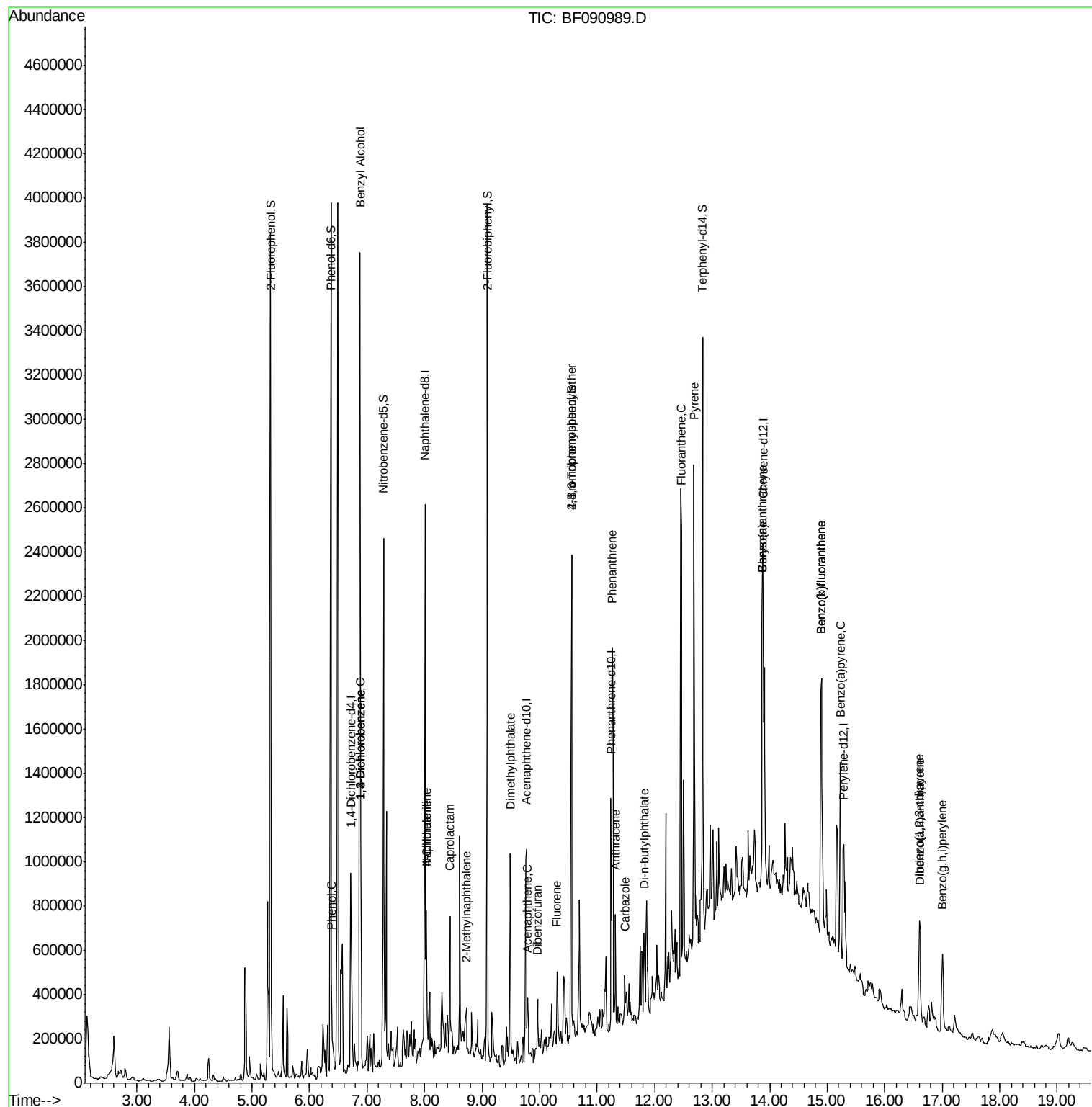
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.38	94	41054	2.94	ng	# 62
12) 1,3-Dichlorobenzene	6.89	146	100673	8.50	ng	# 83
13) 1,4-Dichlorobenzene	6.89	146	103565	8.32	ng	# 84
14) 1,2-Dichlorobenzene	6.89	146	103766	8.70	ng	# 86
15) Benzyl Alcohol	6.88	79	20749	2.50	ng	# 33
31) Naphthalene	8.03	128	279116	9.15	ng	99
33) 4-Chloroaniline	8.03	127	41414	3.36	ng	# 33
35) Caprolactam	8.44	113	13685	5.21	ng	# 1
37) 2-Methylnaphthalene	8.73	142	87660	4.45	ng	# 93
49) Dimethylphthalate	9.49	163	545996	27.08	ng	# 97
51) Acenaphthene	9.79	154	65547	3.80	ng	88
54) Dibenzofuran	9.96	168	85875	3.86	ng	# 83
57) Fluorene	10.30	166	92660	5.08	ng	# 91
66) 4-Bromophenyl-phenylether	10.56	248	24574	4.88	ng	# 1
70) Phenanthrene	11.26	178	946678	40.45	ng	96
71) Anthracene	11.32	178	230716	9.36	ng	98
72) Carbazole	11.48	167	101504	4.66	ng	# 94
73) Di-n-butylphthalate	11.81	149	195824	6.98	ng	# 98
74) Fluoranthene	12.46	202	1404595	54.81	ng	85
77) Pyrene	12.68	202	1086192	50.60	ng	95
80) Benzo(a)anthracene	13.87	228	680817	37.82	ng	93
82) Chrysene	13.87	228	680817	37.39	ng	95
85) Indeno(1,2,3-cd)pyrene	16.60	276	336647	20.86	ng	# 85
87) Benzo(b)fluoranthene	14.90	252	1020340	46.61	ng	# 87
88) Benzo(k)fluoranthene	14.90	252	1020340	58.97	ng	# 88
89) Benzo(a)pyrene	15.23	252	555062	29.51	ng	# 83
90) Dibenzo(a,h)anthracene	16.61	278	99531	6.25	ng	# 80
91) Benzo(g,h,i)perylene	17.00	276	284237	18.95	ng	# 77

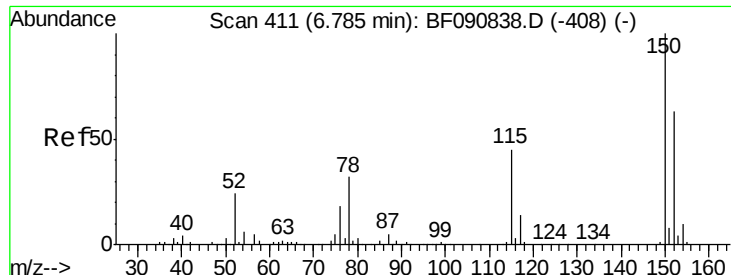
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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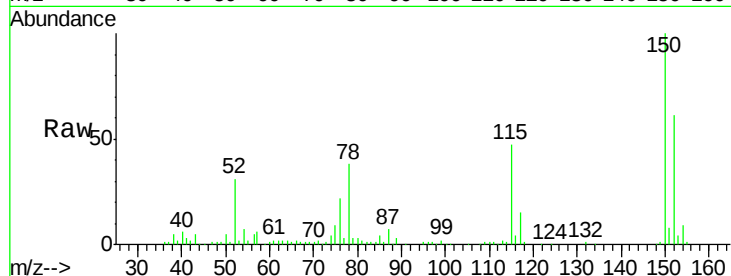




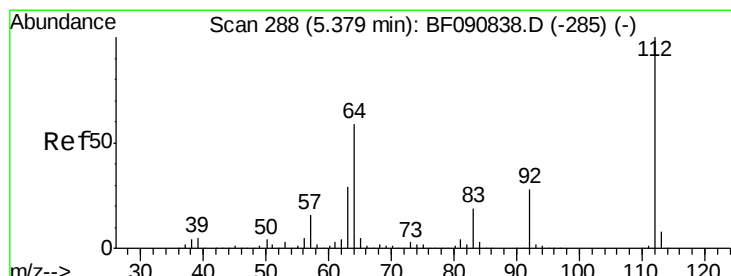
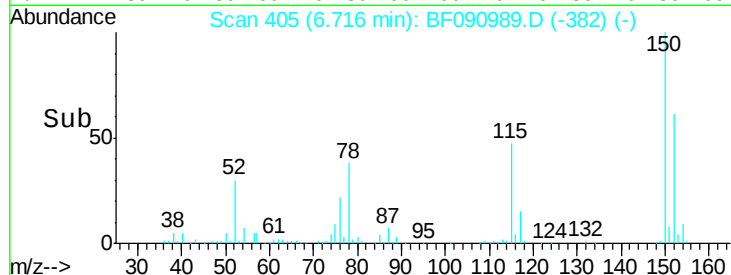
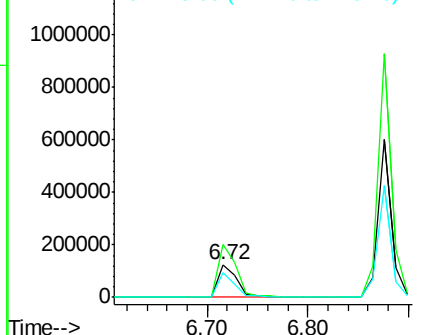
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.72 min Scan# 405
 Delta R.T. -0.03 min
 Lab File: BF090989.D
 Acq: 2 Nov 2016 19:35

Instrument :
 BNA_F
 ClientSampleId :
 SB-91-3.0-3.5

Tgt Ion:152 Resp: 164032
 Ion Ratio Lower Upper
 152 100
 150 164.0 124.7 187.1
 115 77.2 39.0 58.4#

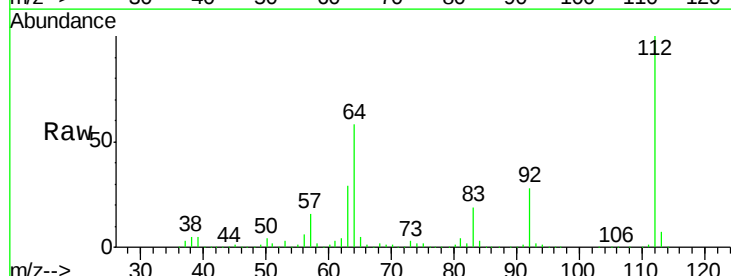


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

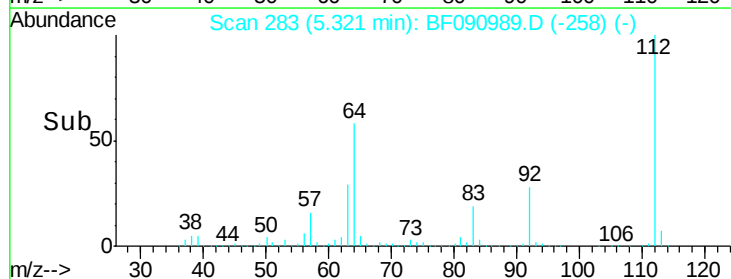
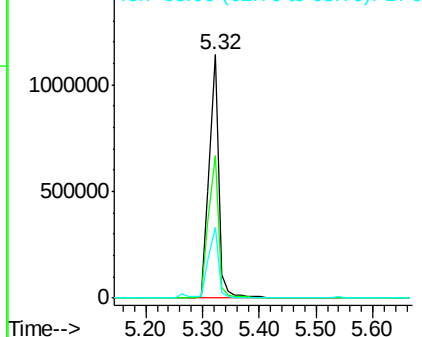


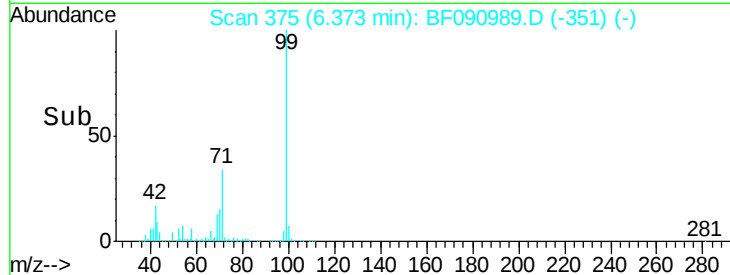
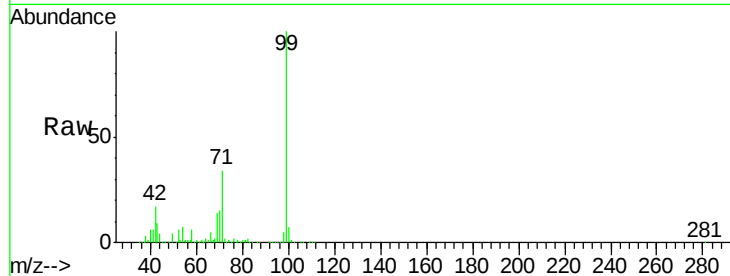
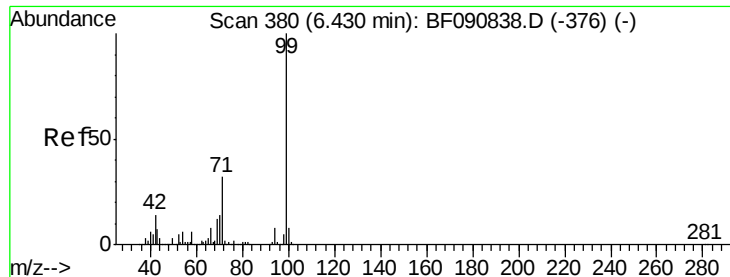
#5
 2-Fluorophenol
 Concen: 136.57 ng
 RT: 5.32 min Scan# 283
 Delta R.T. -0.01 min
 Lab File: BF090989.D
 Acq: 2 Nov 2016 19:35

Tgt Ion:112 Resp: 1281241
 Ion Ratio Lower Upper
 112 100
 64 58.4 39.7 59.5
 63 29.2 17.4 26.0#



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: 136.96 ng

RT: 6.37 min Scan# 375

Delta R.T. -0.02 min

Lab File: BF090989.D

Acq: 2 Nov 2016 19:35

Instrument :

BNA_F

ClientSampleId :

SB-91-3.0-3.5

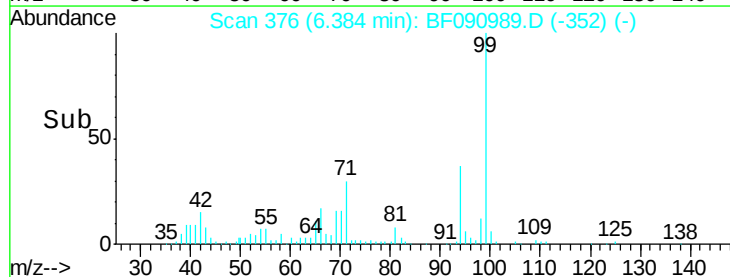
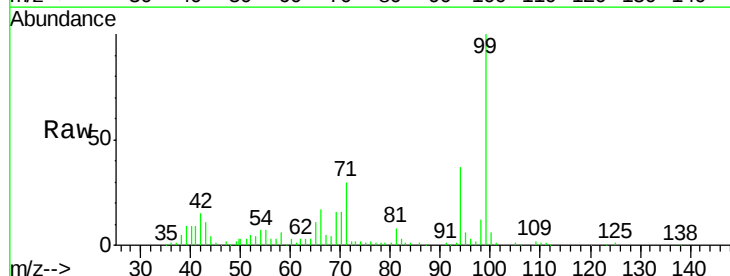
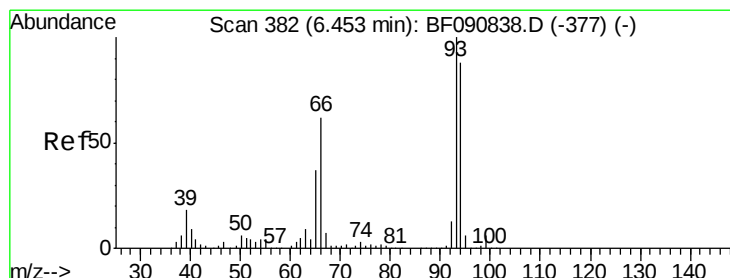
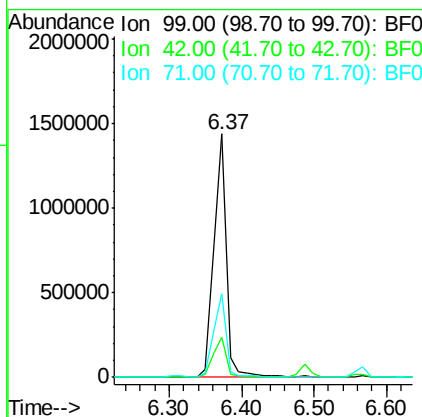
Tgt Ion: 99 Resp: 1733523

Ion Ratio Lower Upper

99 100

42 16.7 13.7 20.5

71 34.2 14.2 21.2#



#10

Phenol

Concen: 2.94 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.02 min

Lab File: BF090989.D

Acq: 2 Nov 2016 19:35

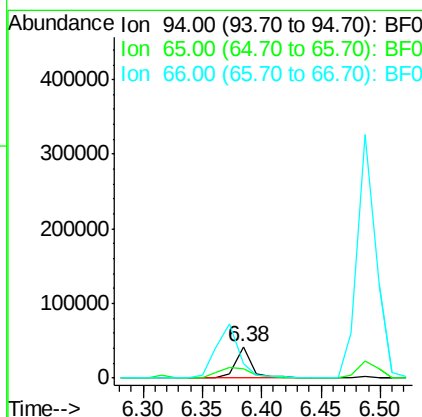
Tgt Ion: 94 Resp: 41054

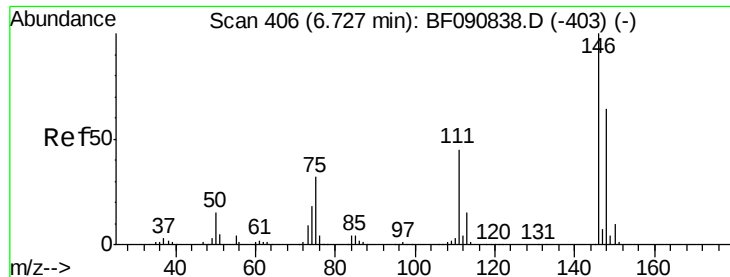
Ion Ratio Lower Upper

94 100

65 30.5 0.7 40.7

66 45.9 0.8 40.8#

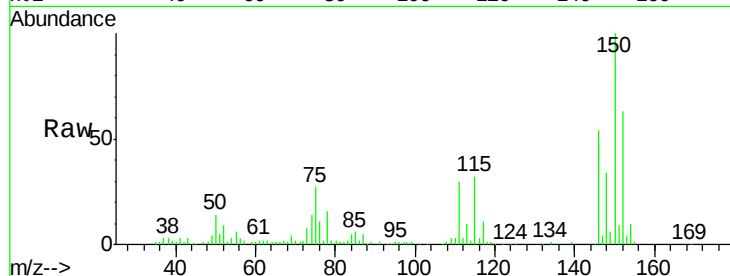




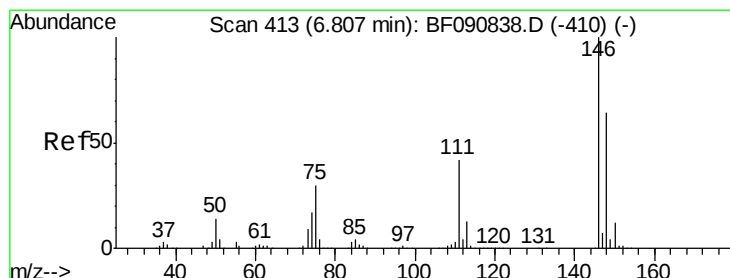
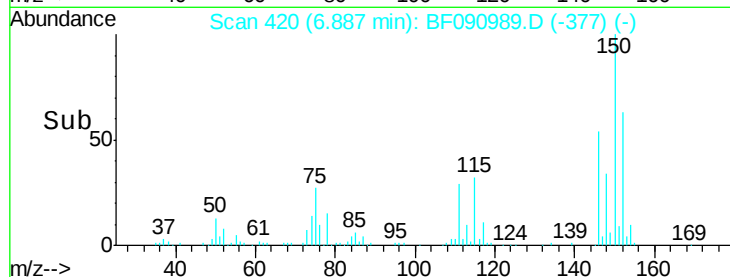
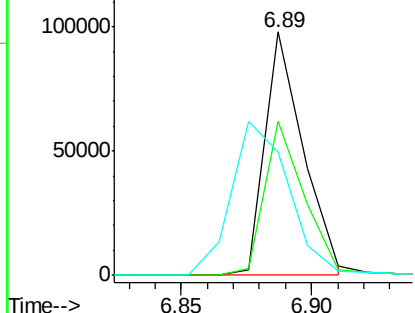
#12
 1,3-Dichlorobenzene
 Concen: 8.50 ng
 RT: 6.89 min Scan# 420
 Delta R.T. 0.19 min
 Lab File: BF090989.D
 Acq: 2 Nov 2016 19:35

Instrument :
 BNA_F
 ClientSampleId :
 SB-91-3.0-3.5

Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.0	76.4
75	50.9	15.0	22.6

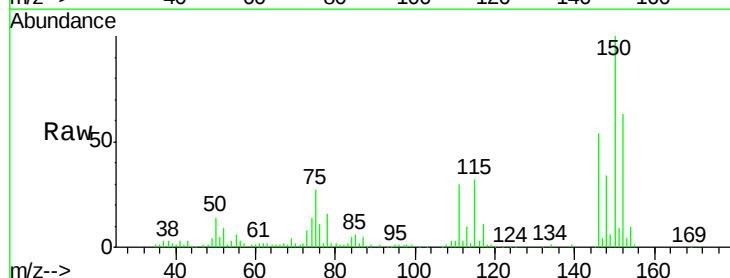


Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 75.00 (74.70 to 75.70): BF0

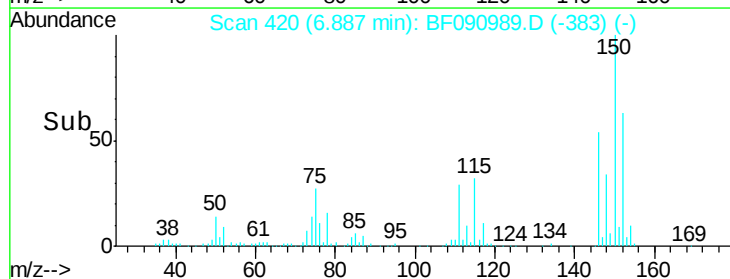
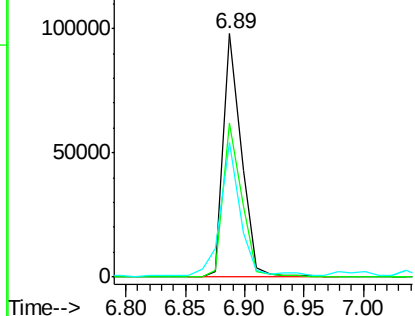


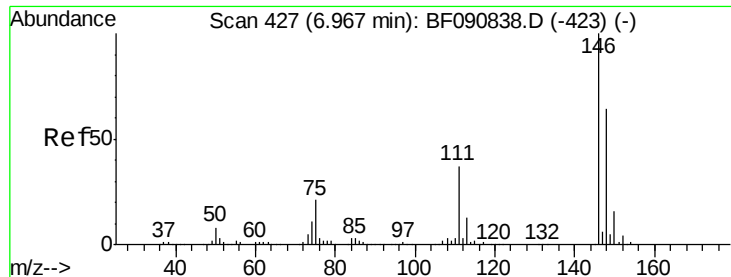
#13
 1,4-Dichlorobenzene
 Concen: 8.32 ng
 RT: 6.89 min Scan# 420
 Delta R.T. 0.13 min
 Lab File: BF090989.D
 Acq: 2 Nov 2016 19:35

Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.8	77.6
111	55.6	24.9	37.3



Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E

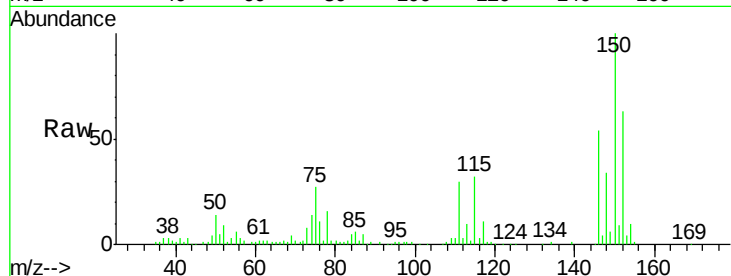




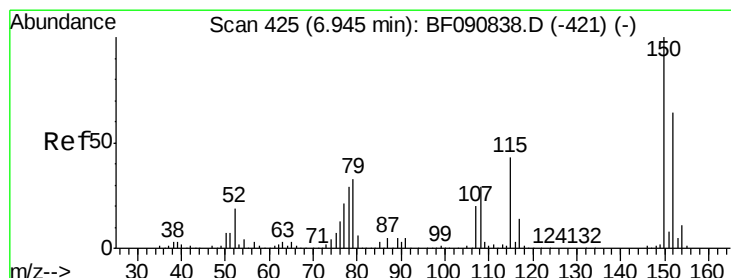
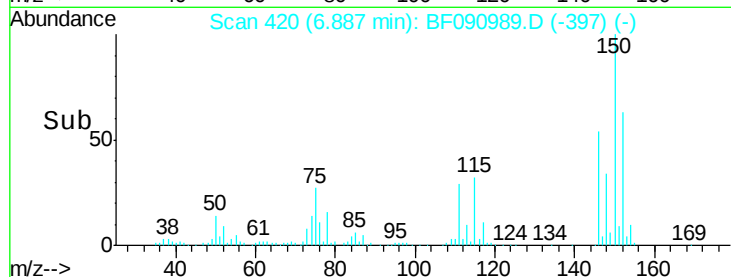
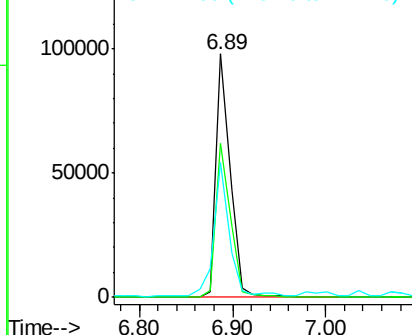
#14
1,2-Dichlorobenzene
Concen: 8.70 ng
RT: 6.89 min Scan# 420
Delta R.T. -0.03 min
Lab File: BF090989.D
Acq: 2 Nov 2016 19:35

Instrument :
BNA_F
ClientSampleId :
SB-91-3.0-3.5

Tgt Ion:146 Resp: 103766
Ion Ratio Lower Upper
146 100
148 63.3 52.7 79.1
111 55.6 28.8 43.2#

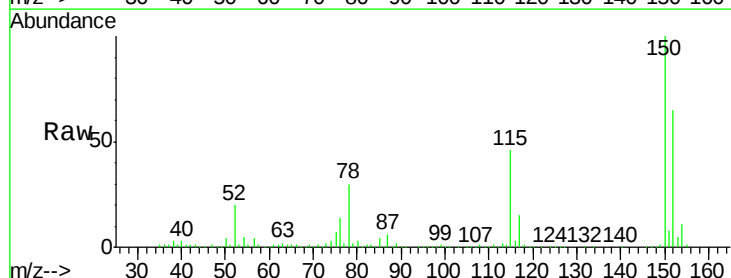


Abundance Ion 146.00 (145.70 to 146.70): E
Ion 148.00 (147.70 to 148.70): E
Ion 111.00 (110.70 to 111.70): E

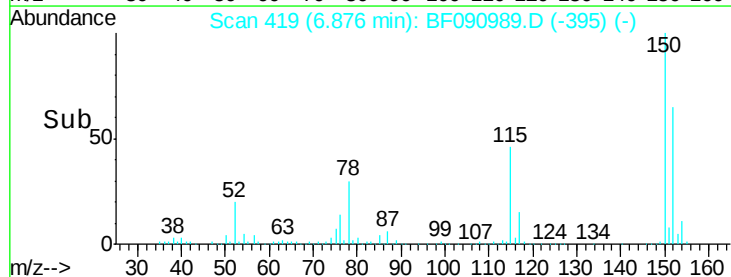
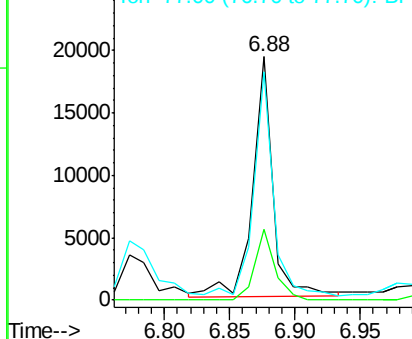


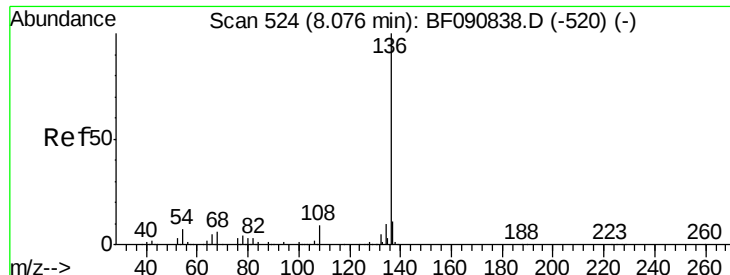
#15
Benzyl Alcohol
Concen: 2.50 ng
RT: 6.88 min Scan# 419
Delta R.T. -0.02 min
Lab File: BF090989.D
Acq: 2 Nov 2016 19:35

Tgt Ion: 79 Resp: 20749
Ion Ratio Lower Upper
79 100
108 28.8 88.6 132.8#
77 93.8 47.0 70.4#



Abundance Ion 79.00 (78.70 to 79.70): BF0
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF0

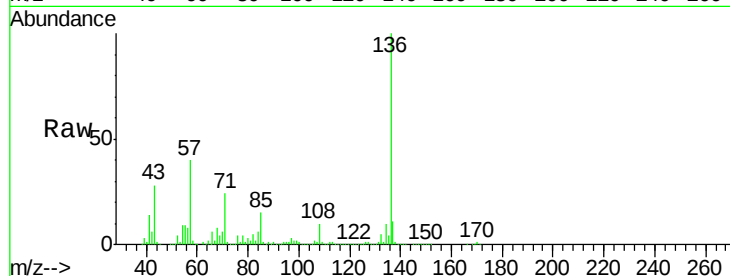




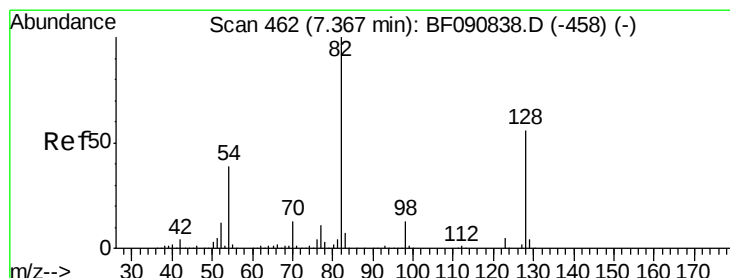
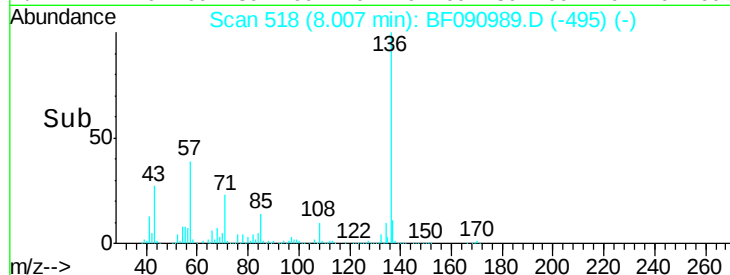
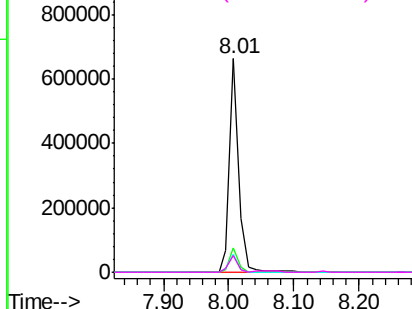
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.01 min Scan# 518
Delta R.T. -0.03 min
Lab File: BF090989.D
Acq: 2 Nov 2016 19:35

Instrument :
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SB-91-3.0-3.5

Tgt Ion:	136	Resp:	652324
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	8.5	8.2	12.2
68	7.5	5.8	8.6

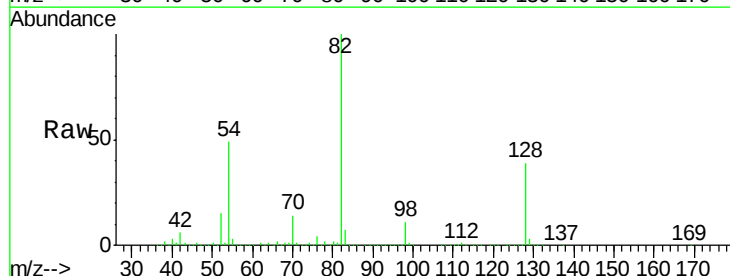


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

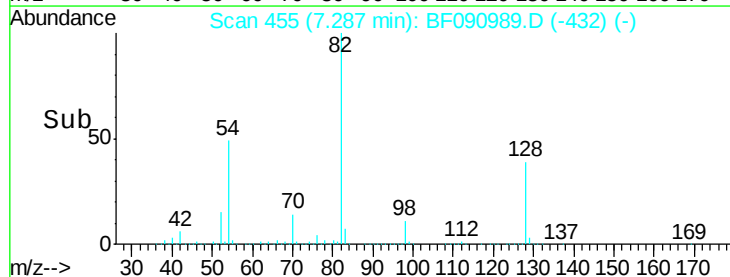
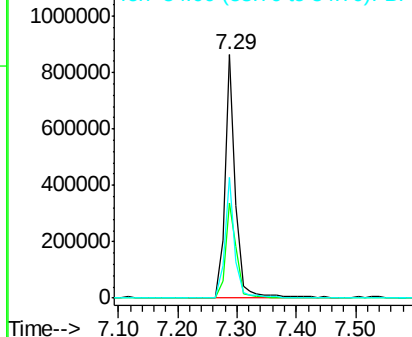


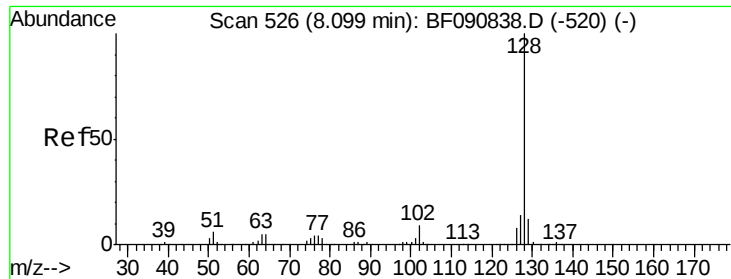
#23
Nitrobenzene-d5
Concen: 106.23 ng
RT: 7.29 min Scan# 455
Delta R.T. -0.03 min
Lab File: BF090989.D
Acq: 2 Nov 2016 19:35

Tgt Ion:	82	Resp:	1058557
Ion	Ratio	Lower	Upper
82	100		
128	39.1	51.0	76.6#
54	49.5	47.5	71.3



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

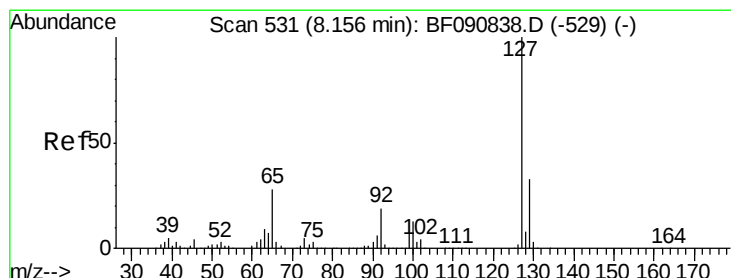
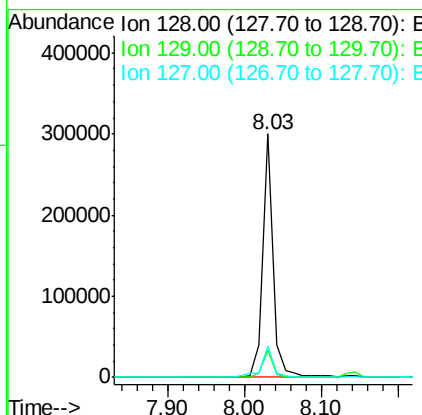
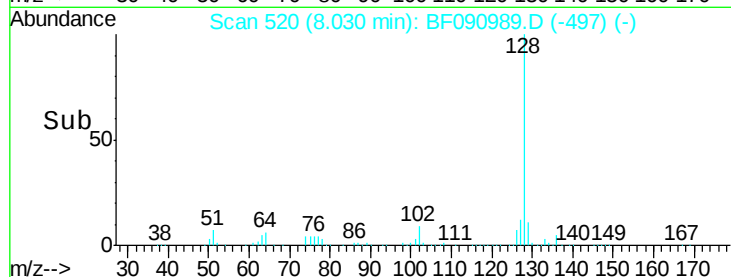
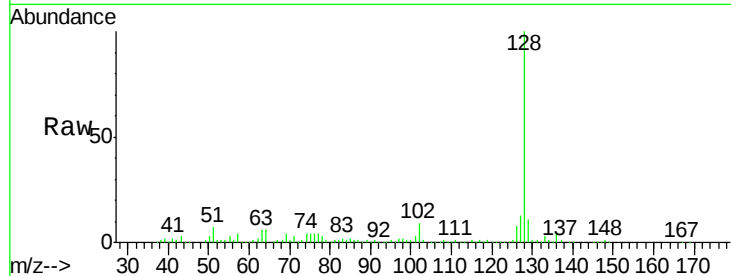




#31
Naphthalene
Concen: 9.15 ng
RT: 8.03 min Scan# 520
Delta R.T. -0.03 min
Lab File: BF090989.D
Acq: 2 Nov 2016 19:35

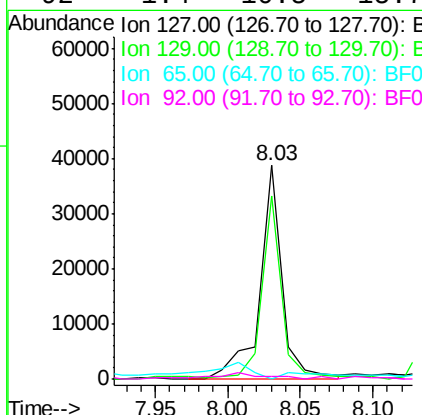
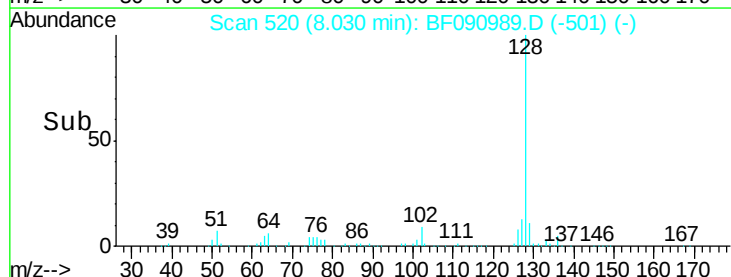
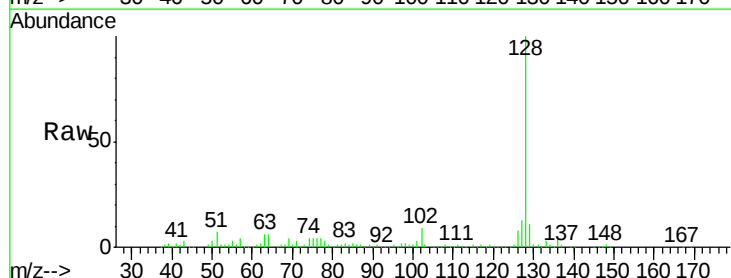
Instrument :
BNA_F
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SB-91-3.0-3.5

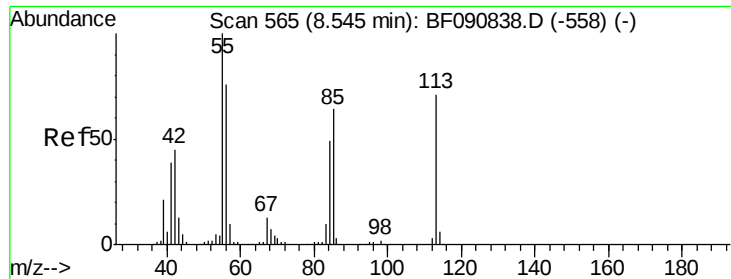
Tgt Ion:	128	Resp:	279116
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.4	12.6
127	12.9	9.9	14.9



#33
4-Chloroaniline
Concen: 3.36 ng
RT: 8.03 min Scan# 520
Delta R.T. -0.08 min
Lab File: BF090989.D
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Tgt Ion:	127	Resp:	41414
Ion	Ratio	Lower	Upper
127	100		
129	85.9	25.8	38.6#
65	0.0	17.9	26.9#
92	1.4	10.5	15.7#

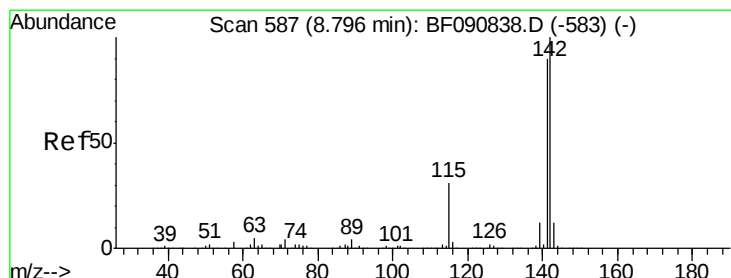
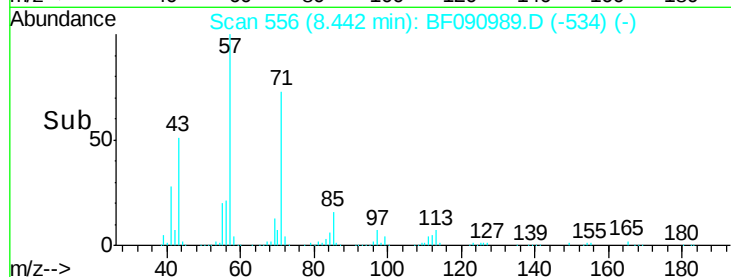
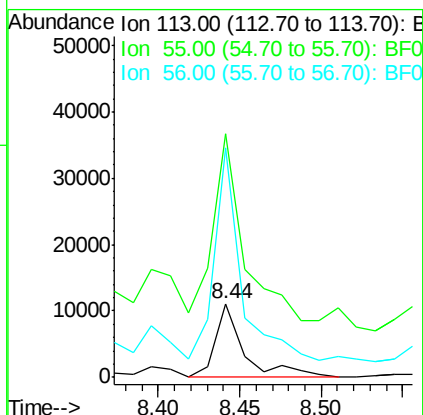
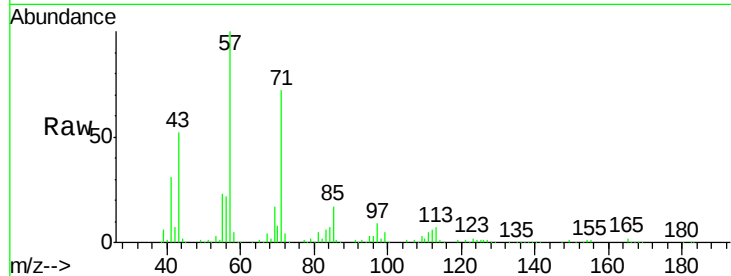




#35
 Caprolactam
 Concen: 5.21 ng
 RT: 8.44 min Scan# 556
 Delta R.T. -0.05 min
 Lab File: BF090989.D
 Acq: 2 Nov 2016 19:35

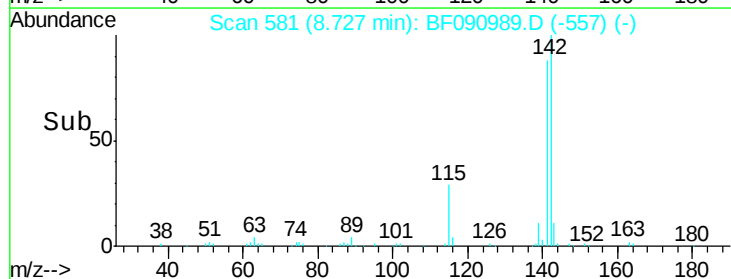
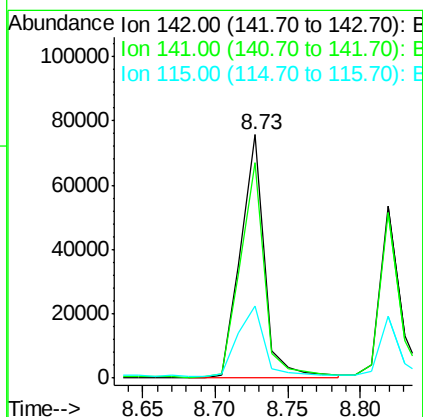
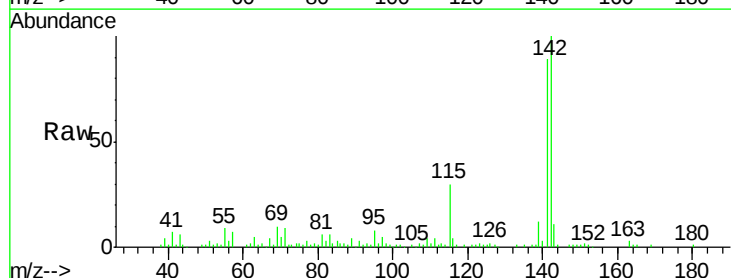
Instrument :
 BNA_F
 ClientSampleId :
 SB-91-3.0-3.5

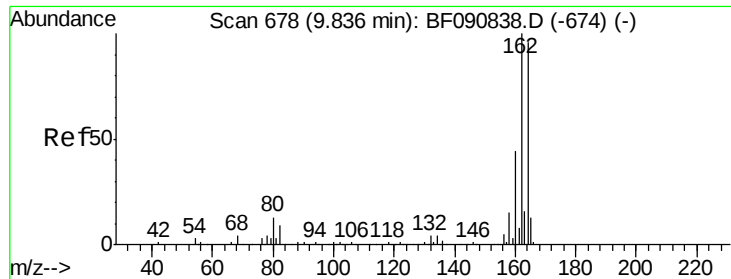
Tgt Ion:113 Resp: 13685
 Ion Ratio Lower Upper
 113 100
 55 329.4 152.4 192.4#
 56 310.6 104.6 144.6#



#37
 2-Methylnaphthalene
 Concen: 4.45 ng
 RT: 8.73 min Scan# 581
 Delta R.T. -0.02 min
 Lab File: BF090989.D
 Acq: 2 Nov 2016 19:35

Tgt Ion:142 Resp: 87660
 Ion Ratio Lower Upper
 142 100
 141 88.6 67.5 101.3
 115 29.6 18.2 27.2#

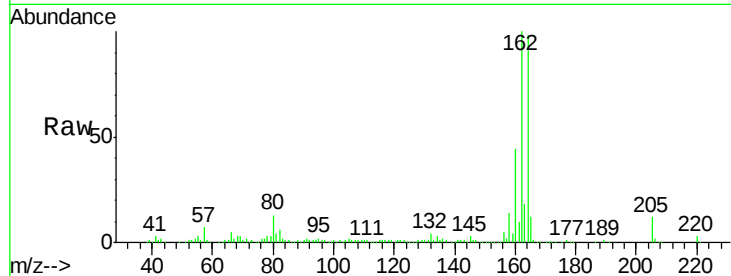




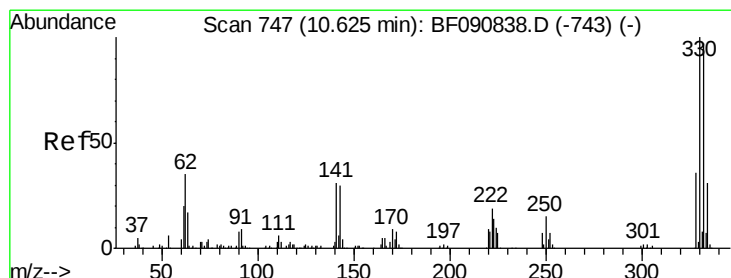
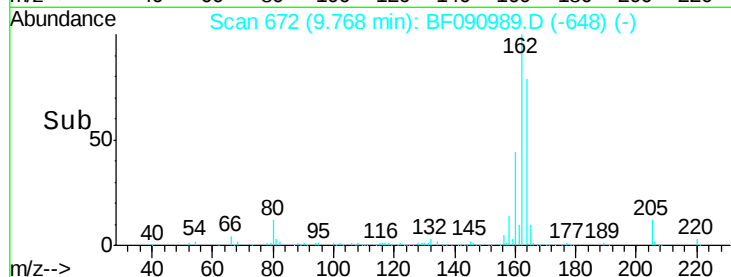
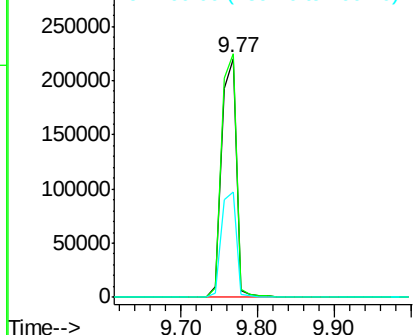
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.77 min Scan# 672
Delta R.T. -0.02 min
Lab File: BF090989.D
Acq: 2 Nov 2016 19:35

Instrument :
BNA_F
ClientSampleId :
SB-91-3.0-3.5

Tgt Ion:164 Resp: 301760
Ion Ratio Lower Upper
164 100
162 102.0 75.2 112.8
160 44.4 31.5 47.3

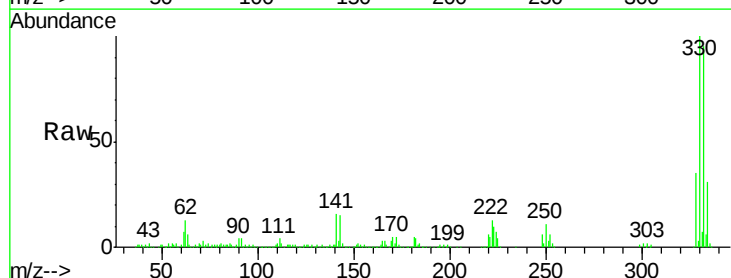


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

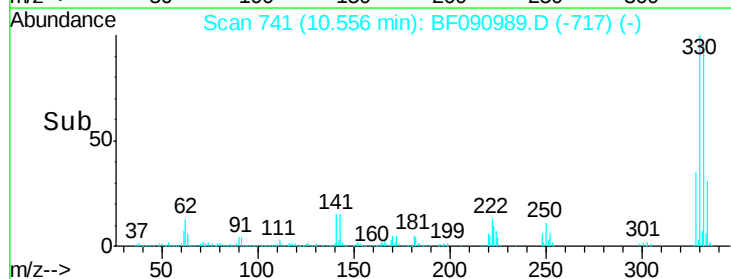
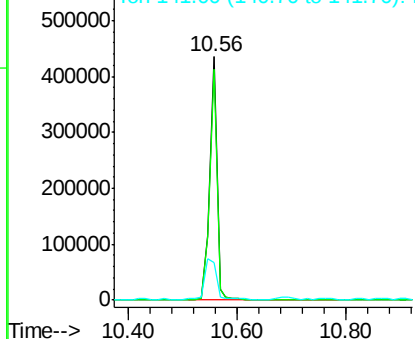


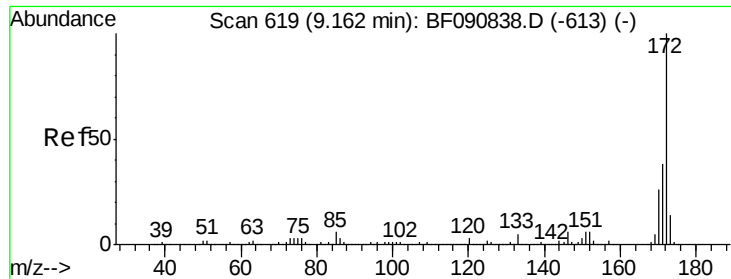
#41
2,4,6-Tribromophenol
Concen: 131.32 ng
RT: 10.56 min Scan# 741
Delta R.T. -0.02 min
Lab File: BF090989.D
Acq: 2 Nov 2016 19:35

Tgt Ion:330 Resp: 407250
Ion Ratio Lower Upper
330 100
332 95.4 76.6 114.8
141 25.6 29.7 44.5#



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

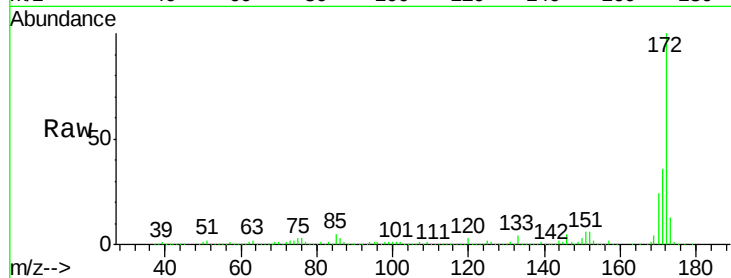




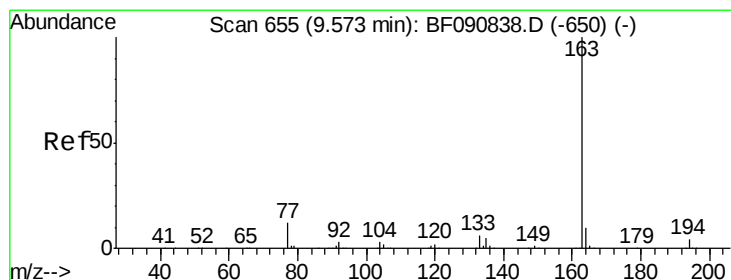
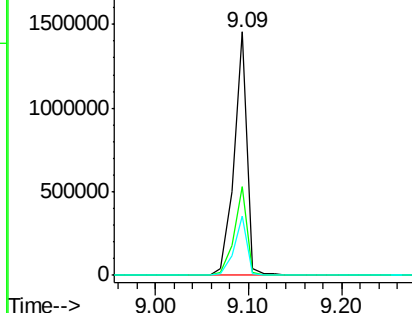
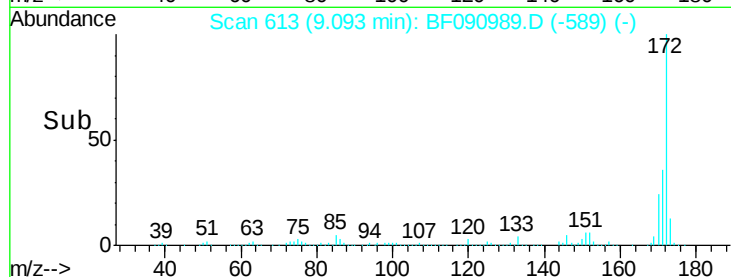
#44
2-Fluorobiphenyl
Concen: 83.11 ng
RT: 9.09 min Scan# 613
Delta R.T. -0.02 min
Lab File: BF090989.D
Acq: 2 Nov 2016 19:35

Instrument :
BNA_F
ClientSampleId :
SB-91-3.0-3.5

Tgt Ion:172 Resp: 1428282
Ion Ratio Lower Upper
172 100
171 36.4 26.1 39.1
170 24.5 17.4 26.2

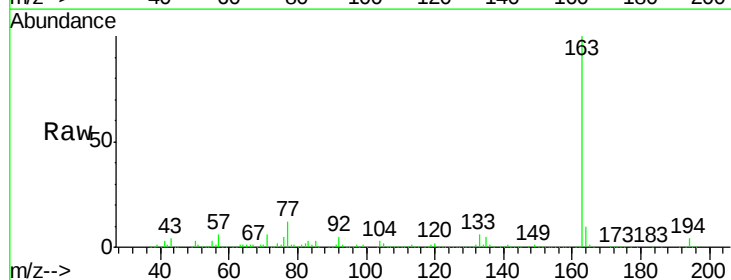


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

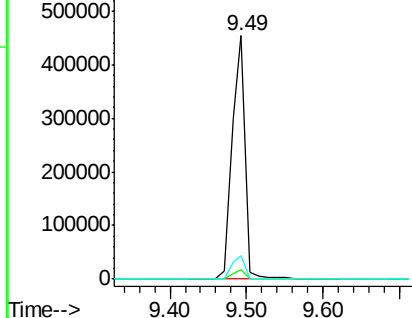
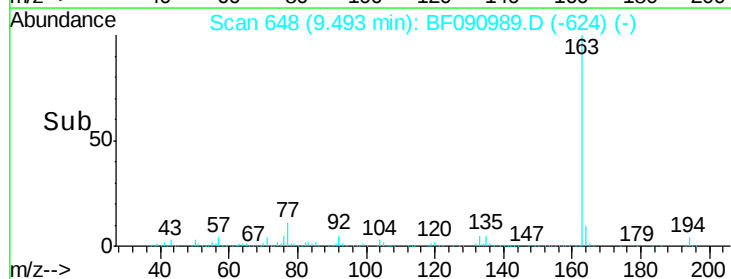


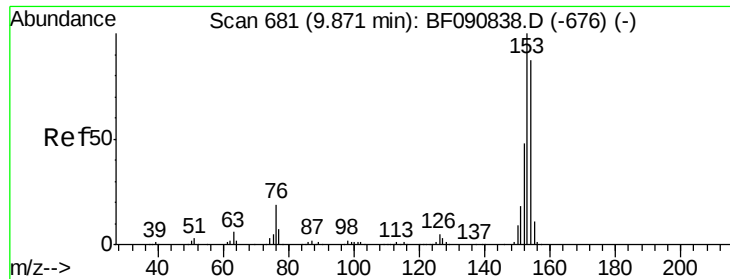
#49
Dimethylphthalate
Concen: 27.08 ng
RT: 9.49 min Scan# 648
Delta R.T. -0.02 min
Lab File: BF090989.D
Acq: 2 Nov 2016 19:35

Tgt Ion:163 Resp: 545996
Ion Ratio Lower Upper
163 100
194 4.0 4.4 6.6#
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





#51

Acenaphthene

Concen: 3.80 ng

RT: 9.79 min Scan# 674

Delta R.T. -0.03 min

Lab File: BF090989.D

Acq: 2 Nov 2016 19:35

Instrument :

BNA_F

ClientSampleId :

SB-91-3.0-3.5

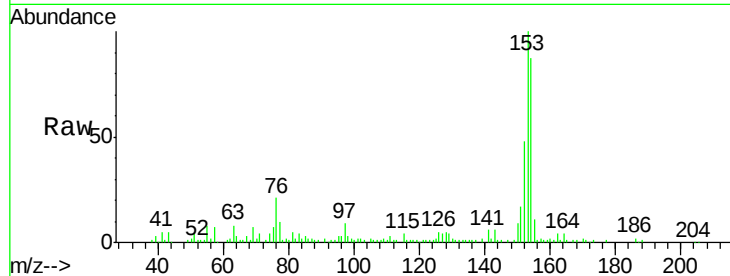
Tgt Ion:154 Resp: 65547

Ion Ratio Lower Upper

154 100

153 114.9 82.1 123.1

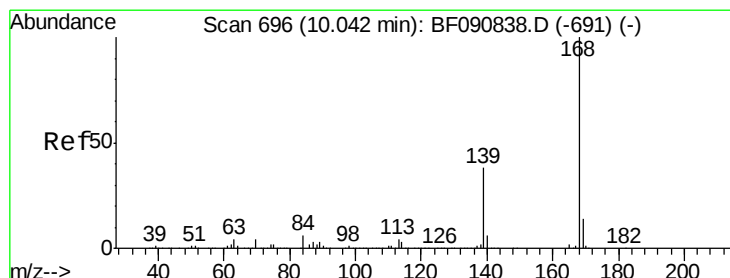
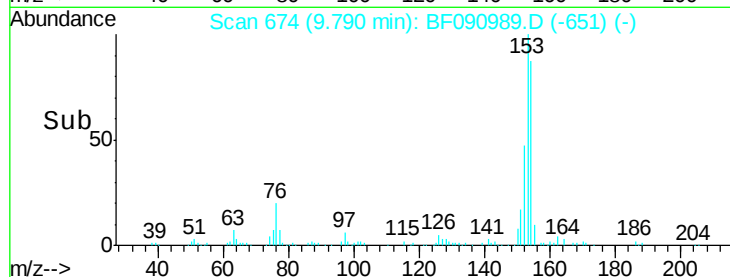
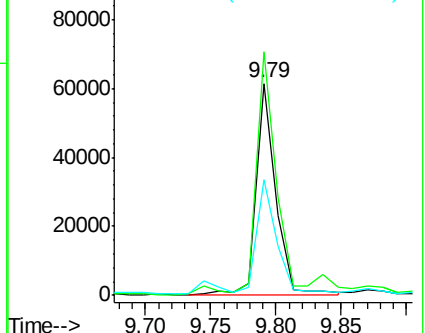
152 54.6 37.9 56.9



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

Dibenzofuran

Concen: 3.86 ng

RT: 9.96 min Scan# 689

Delta R.T. -0.03 min

Lab File: BF090989.D

Acq: 2 Nov 2016 19:35

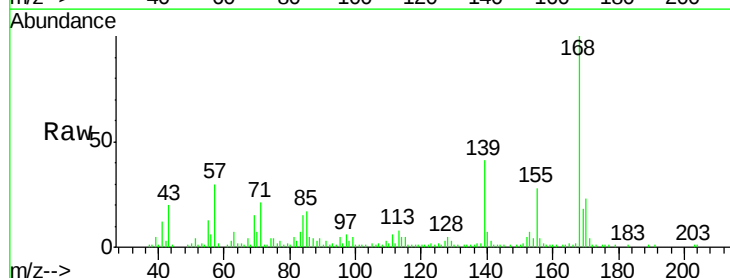
Tgt Ion:168 Resp: 85875

Ion Ratio Lower Upper

168 100

139 41.1 24.2 36.2#

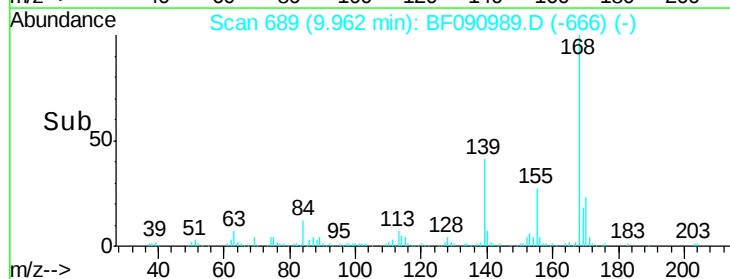
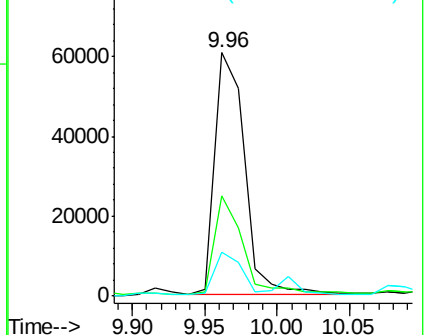
169 17.9 10.6 15.8#

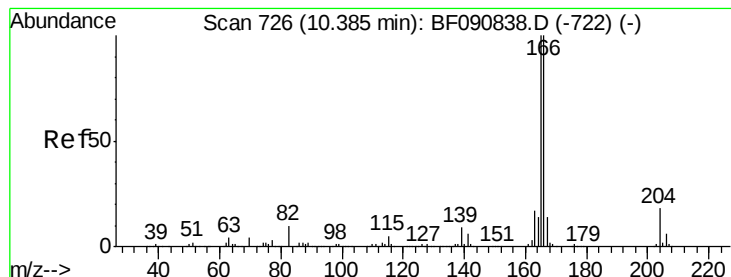


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 5.08 ng

RT: 10.30 min Scan# 719

Delta R.T. -0.03 min

Lab File: BF090989.D

Acq: 2 Nov 2016 19:35

Instrument :

BNA_F

ClientSampleId :

SB-91-3.0-3.5

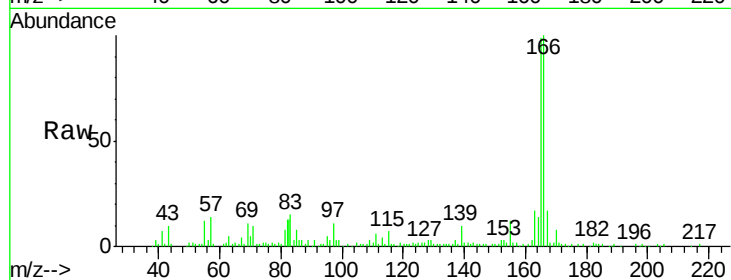
Tgt Ion:166 Resp: 92660

Ion Ratio Lower Upper

166 100

165 99.1 72.6 109.0

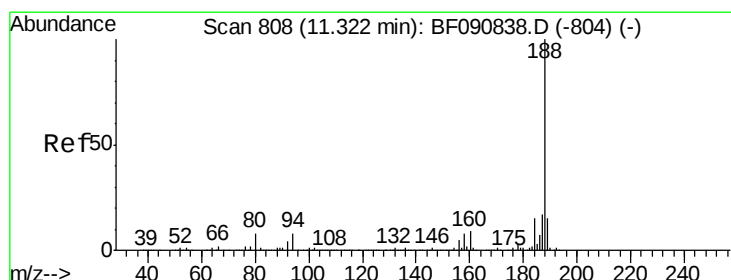
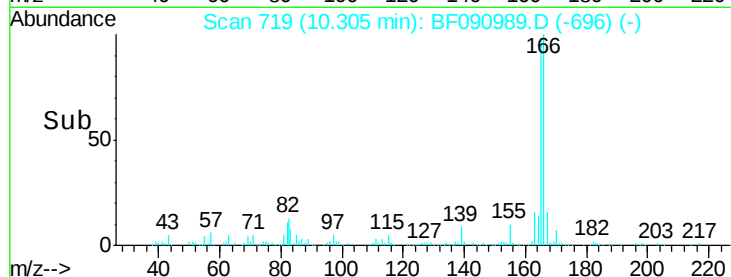
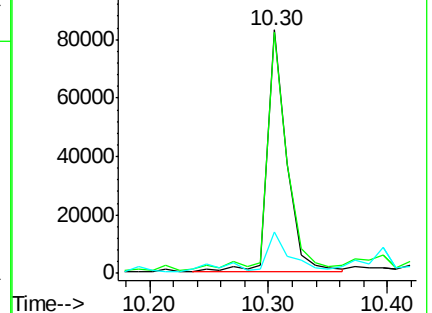
167 16.9 10.6 16.0#



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: 11.24 min Scan# 801

Delta R.T. -0.02 min

Lab File: BF090989.D

Acq: 2 Nov 2016 19:35

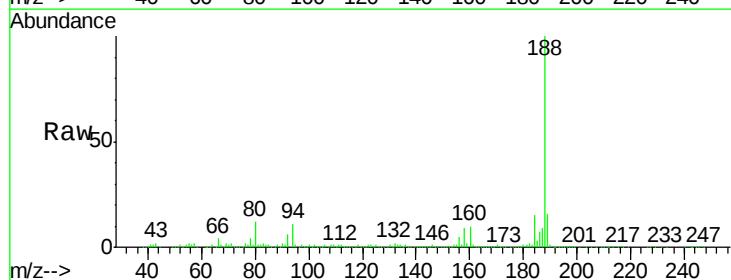
Tgt Ion:188 Resp: 459530

Ion Ratio Lower Upper

188 100

94 10.9 11.1 16.7#

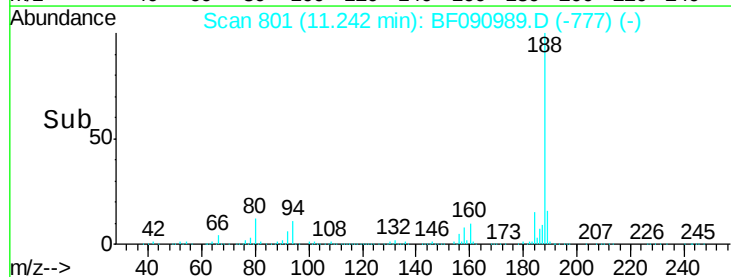
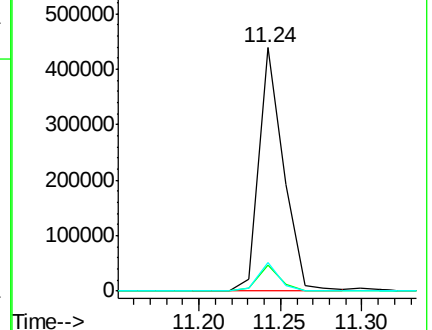
80 11.8 11.0 16.4

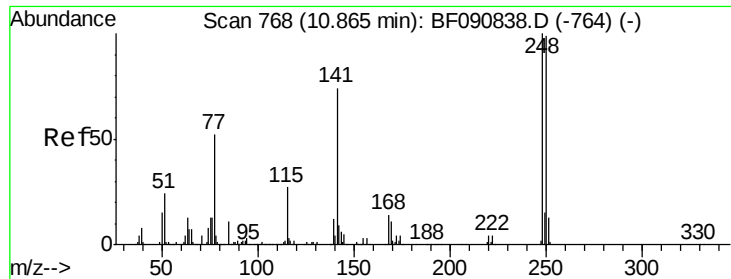


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

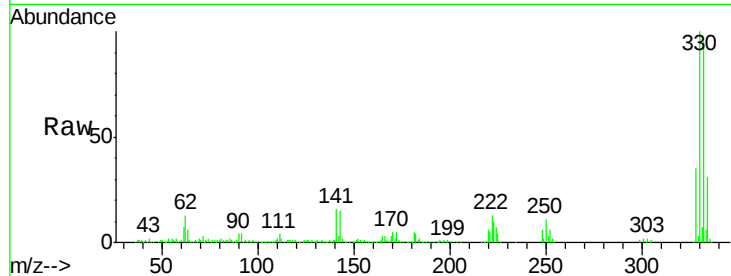




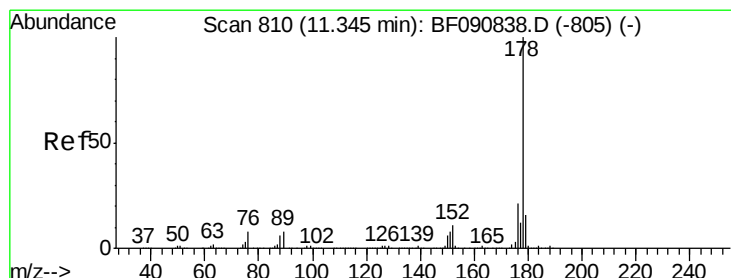
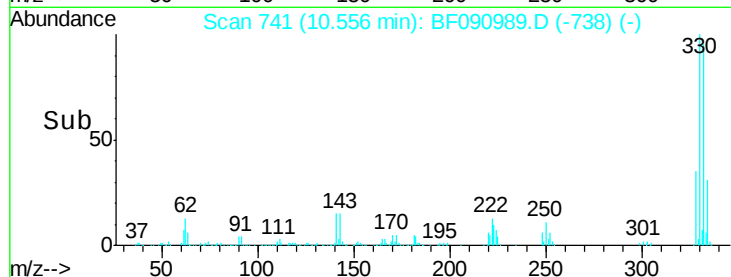
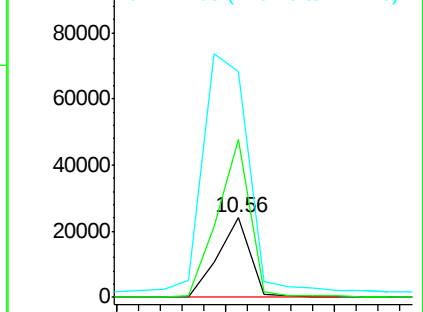
#66
 4-Bromophenyl-phenylether
 Concen: 4.88 ng
 RT: 10.56 min Scan# 741
 Delta R.T. -0.26 min
 Lab File: BF090989.D
 Acq: 2 Nov 2016 19:35

Instrument :
 BNA_F
 ClientSampleId :
 SB-91-3.0-3.5

Tgt Ion:248 Resp: 24574
 Ion Ratio Lower Upper
 248 100
 250 198.7 78.5 117.7#
 141 284.3 59.0 88.6#

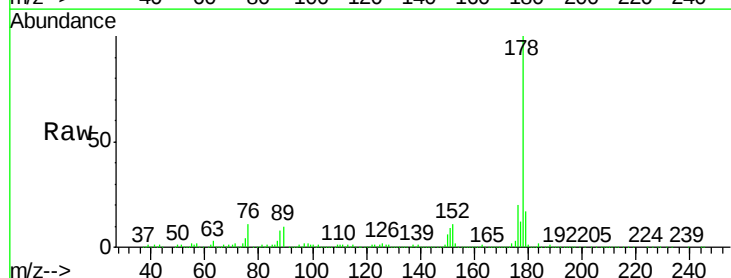


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

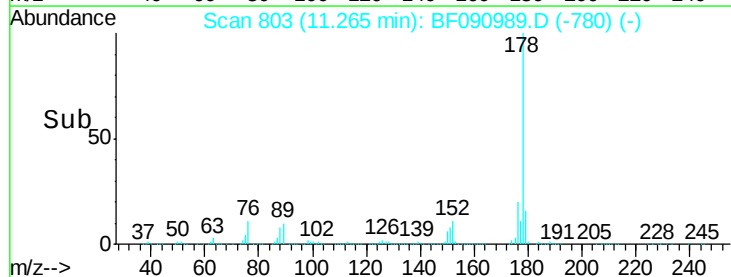
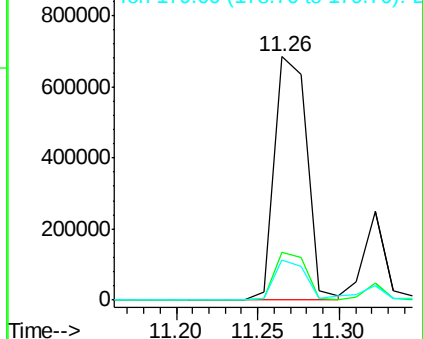


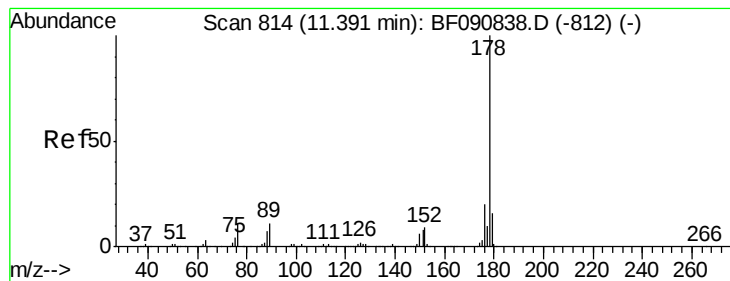
#70
 Phenanthrene
 Concen: 40.45 ng
 RT: 11.26 min Scan# 803
 Delta R.T. -0.03 min
 Lab File: BF090989.D
 Acq: 2 Nov 2016 19:35

Tgt Ion:178 Resp: 946678
 Ion Ratio Lower Upper
 178 100
 176 19.8 13.8 20.8
 179 16.5 12.2 18.2



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





#71

Anthracene

Concen: 9.36 ng

RT: 11.32 min Scan# 808

Delta R.T. -0.02 min

Lab File: BF090989.D

Acq: 2 Nov 2016 19:35

Instrument :

BNA_F

ClientSampleId :

SB-91-3.0-3.5

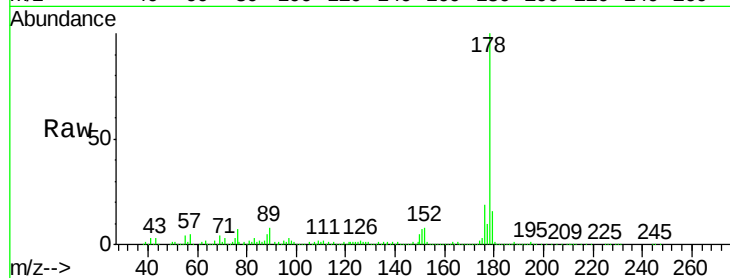
Tgt Ion:178 Resp: 230716

Ion Ratio Lower Upper

178 100

176 18.5 14.1 21.1

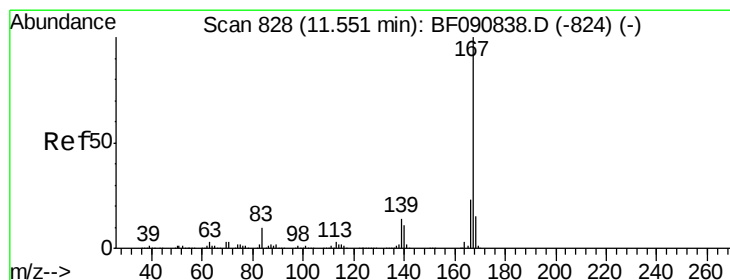
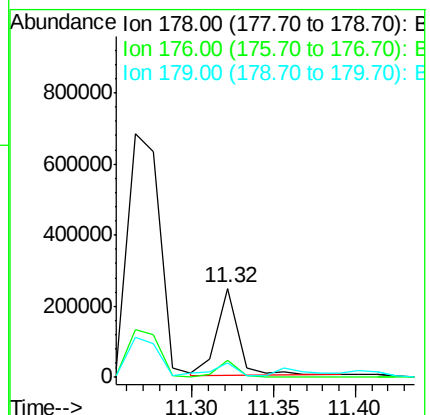
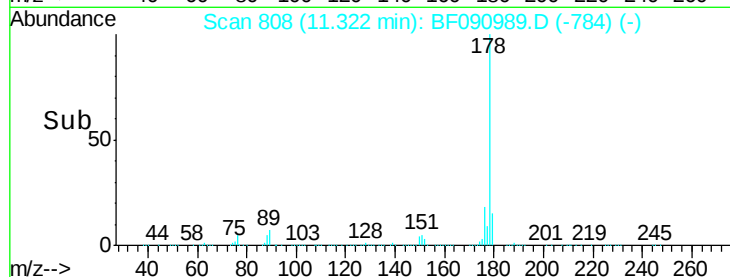
179 15.9 12.2 18.2



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: 4.66 ng

RT: 11.48 min Scan# 822

Delta R.T. -0.02 min

Lab File: BF090989.D

Acq: 2 Nov 2016 19:35

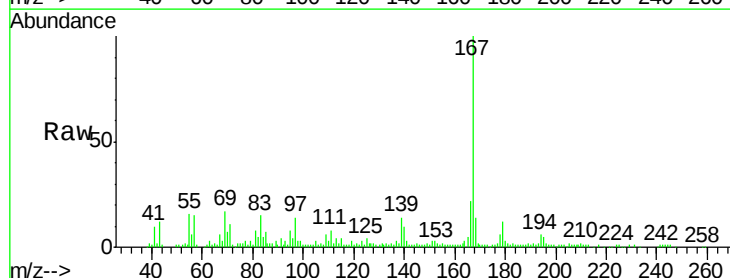
Tgt Ion:167 Resp: 101504

Ion Ratio Lower Upper

167 100

166 22.3 15.7 23.5

139 14.3 9.5 14.3#



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

