

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042315\
 Data File : BF078779.D
 Acq On : 24 Apr 2015 9:28
 Operator : TP/IZ
 Sample : G1991-05DL 2X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-76SDL

Quant Time: Apr 24 12:44:37 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 23 08:49:33 2015
 Response via : Initial Calibration

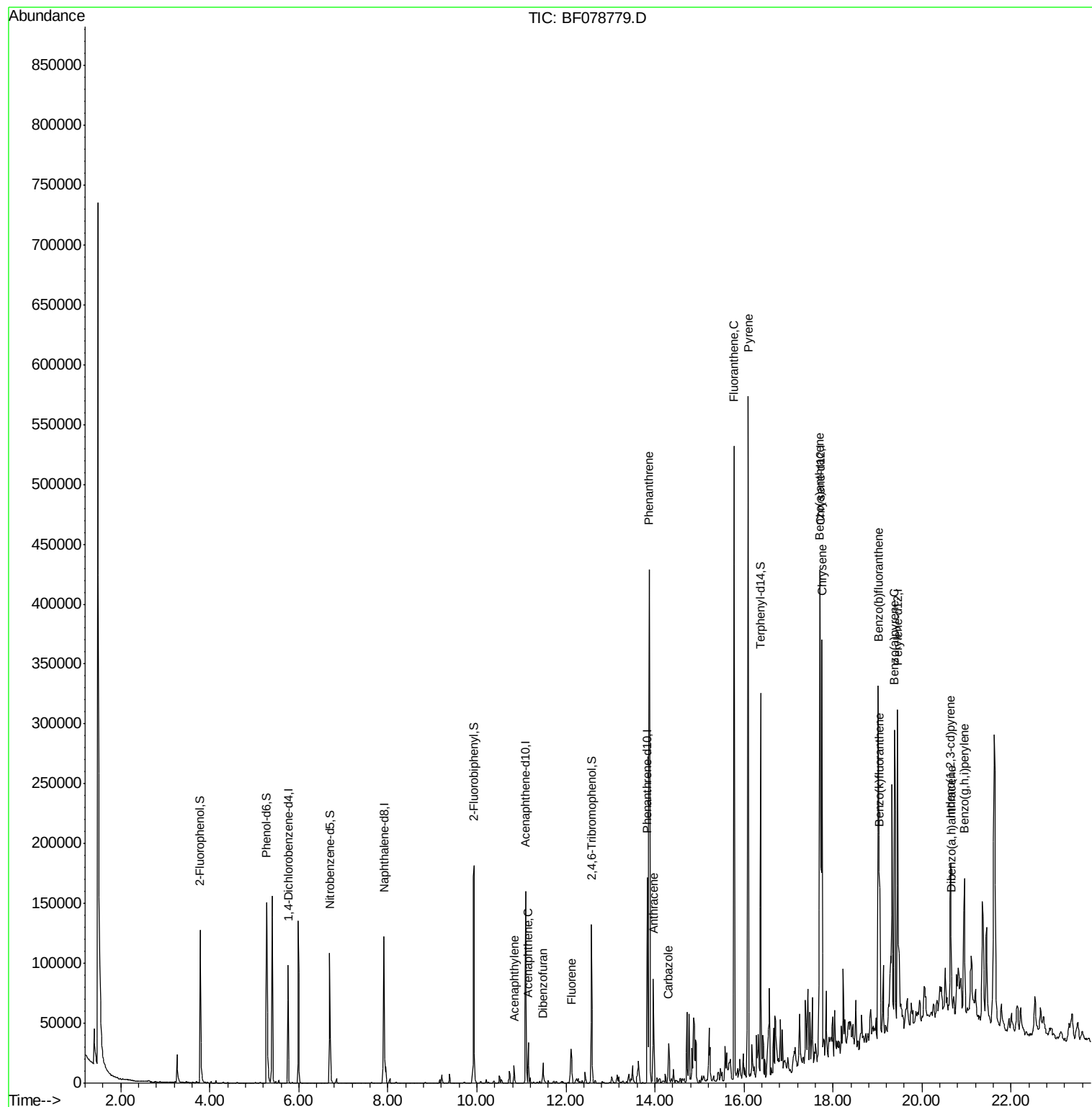
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.76	152	23478	20.00	ng	-0.02
21) Naphthalene-d8	7.92	136	96927	20.00	ng	-0.02
38) Acenaphthene-d10	11.10	164	49631	20.00	ng	-0.03
63) Phenanthrene-d10	13.83	188	103957	20.00	ng	-0.03
75) Chrysene-d12	17.71	240	114198	20.00	ng	-0.02
86) Perylene-d12	19.45	264	115277	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.78	112	60957	42.81	ng	-0.01
7) Phenol-d6	5.28	99	79533	44.57	ng	-0.01
23) Nitrobenzene-d5	6.70	82	48753	30.49	ng	-0.03
41) 2,4,6-Tribromophenol	12.57	330	20371	49.49	ng	-0.03
44) 2-Fluorobiphenyl	9.93	172	102837	29.62	ng	-0.03
78) Terphenyl-d14	16.38	244	126139	24.96	ng	-0.02
Target Compounds						Qvalue
48) Acenaphthylene	10.83	152	11223	2.18	ng	98
51) Acenaphthene	11.15	154	11437	3.94	ng	96
54) Dibenzofuran	11.48	168	11689	2.64	ng	95
57) Fluorene	12.11	166	12758	3.55	ng	94
70) Phenanthrene	13.87	178	239495	39.83	ng	100
71) Anthracene	13.97	178	50929	8.59	ng	99
72) Carbazole	14.31	167	22148	3.99	ng	100
74) Fluoranthene	15.77	202	319860	50.44	ng	98
77) Pyrene	16.09	202	302646	42.22	ng	# 95
80) Benzo(a)anthracene	17.70	228	160683	23.65	ng	97
82) Chrysene	17.75	228	132874	20.81	ng	97
85) Indeno(1,2,3-cd)pyrene	20.64	276	77053m	10.64	ng	
87) Benzo(b)fluoranthene	19.02	252	198346m	27.84	ng	
88) Benzo(k)fluoranthene	19.04	252	37008m	5.85	ng	
89) Benzo(a)pyrene	19.38	252	129340	20.80	ng	# 94
90) Dibenzo(a,h)anthracene	20.65	278	18537m	2.98	ng	
91) Benzo(a,h,i)perylene	20.95	276	71062	11.39	ng	96

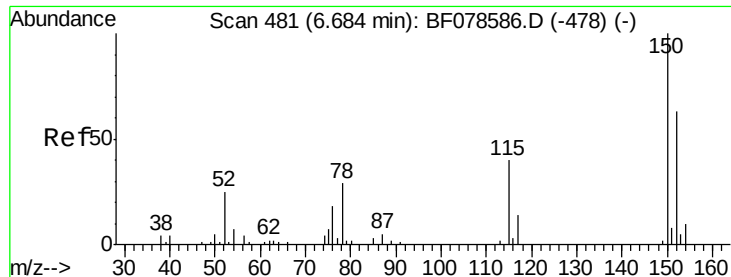
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.76 min Scan# 400

Delta R.T. -0.02 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

Instrument :

BNA_F

ClientSampleId :

SB-76SDL

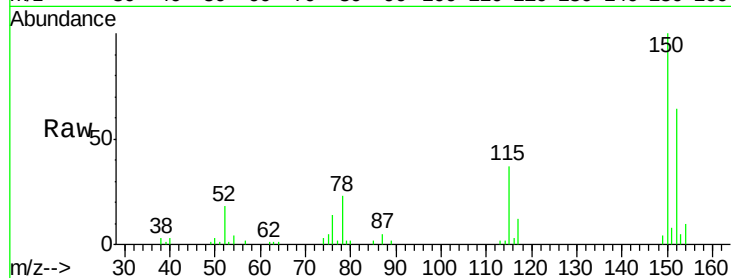
Tot Ion:152 Resp: 23478

Ion Ratio Lower Upper

152 100

150 157.2 125.9 188.9

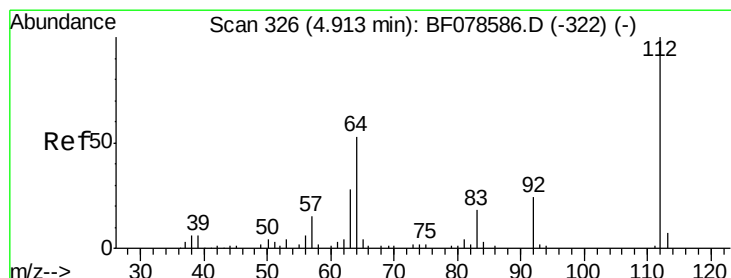
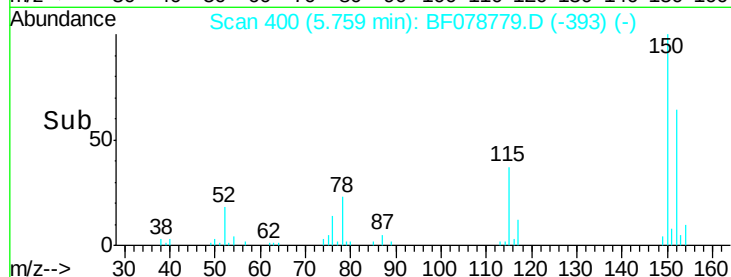
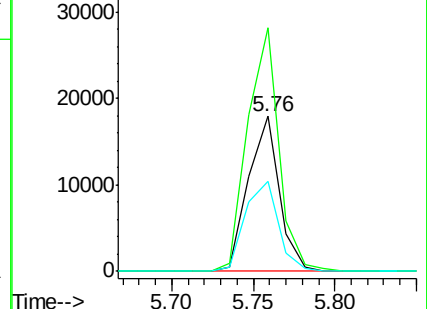
115 58.5 52.7 79.1



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: 42.81 ng

RT: 3.78 min Scan# 227

Delta R.T. -0.01 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

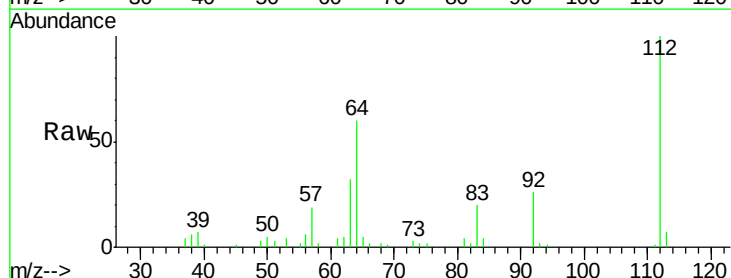
Tgt Ion:112 Resp: 60957

Ion Ratio Lower Upper

112 100

64 60.2 39.9 59.9#

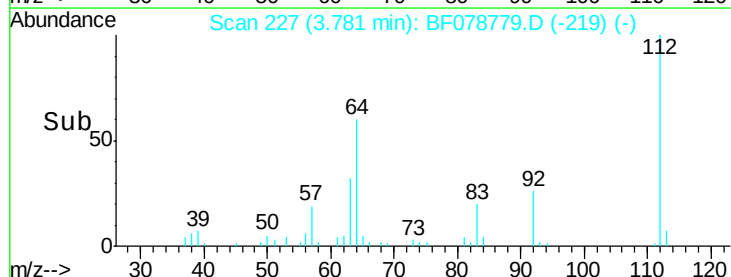
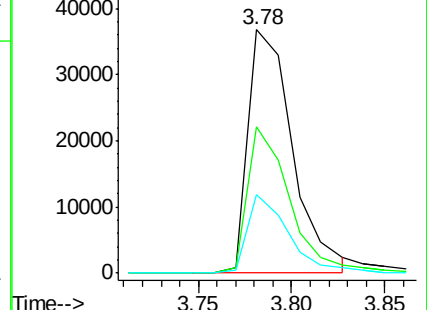
63 32.0 20.2 30.4#

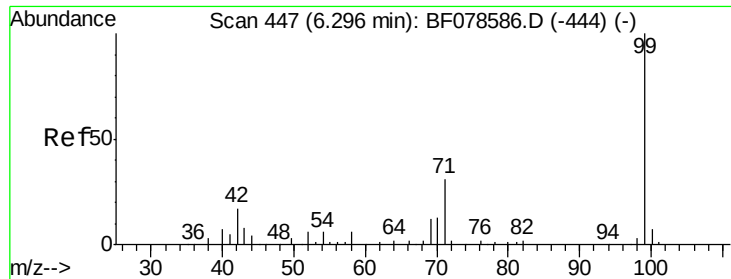


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 44.57 ng

RT: 5.28 min Scan# 358

Delta R.T. -0.01 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

Instrument :

BNA_F

ClientSampleId :

SB-76SDL

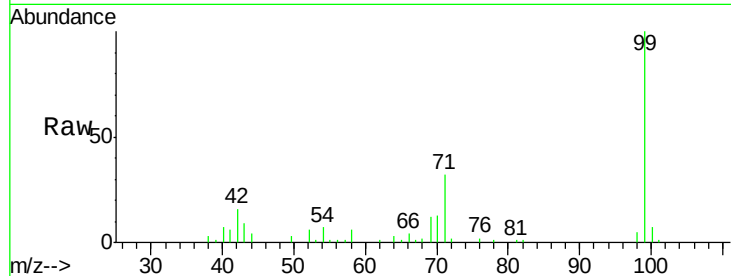
Tot Ion: 99 Resp: 79533

Ion Ratio Lower Upper

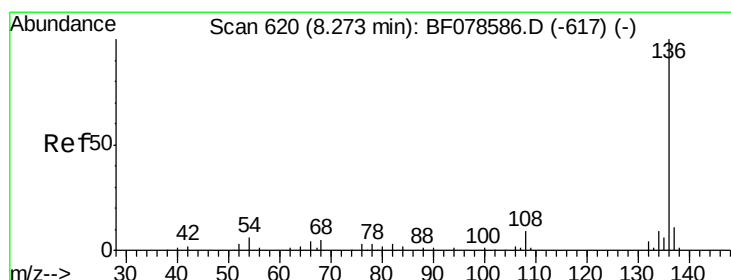
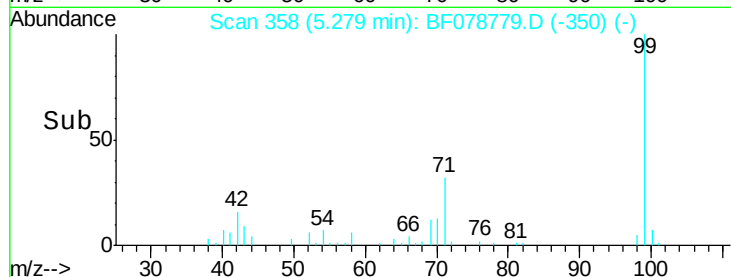
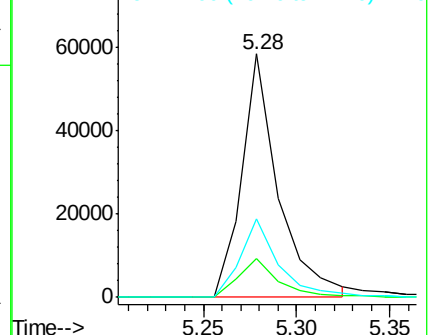
99 100

42 16.0 14.8 22.2

71 32.4 26.6 39.8



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 589

Delta R.T. -0.02 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

Tgt Ion: 136 Resp: 96927

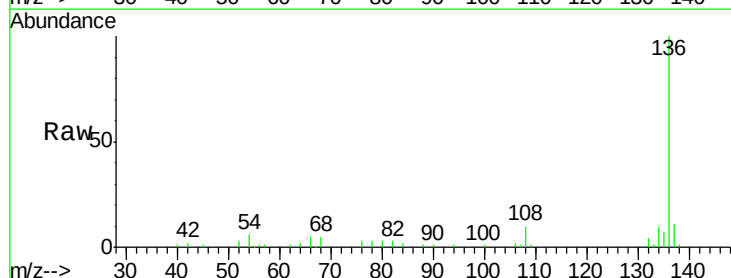
Ion Ratio Lower Upper

136 100

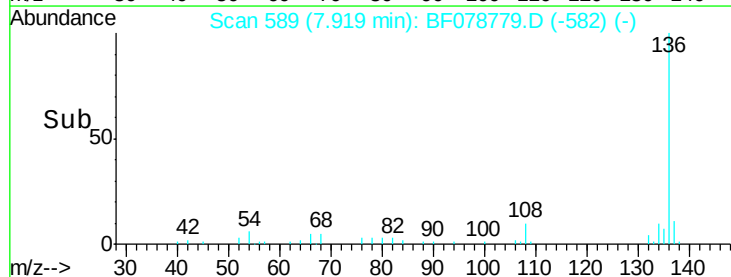
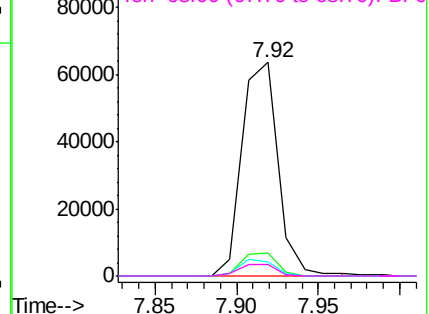
137 11.0 9.0 13.4

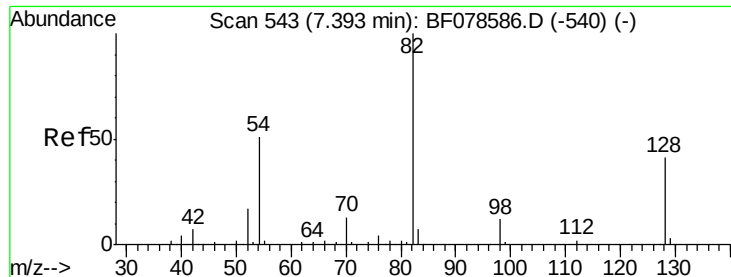
54 6.4 7.0 10.6#

68 5.3 5.4 8.2#



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

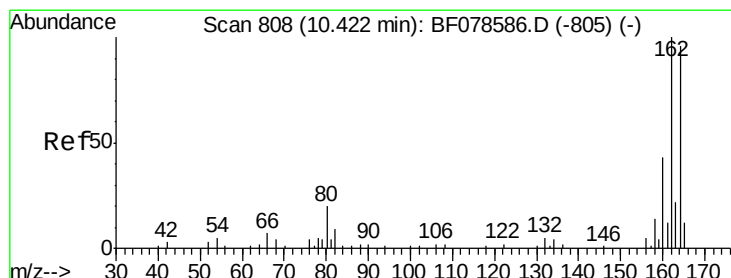
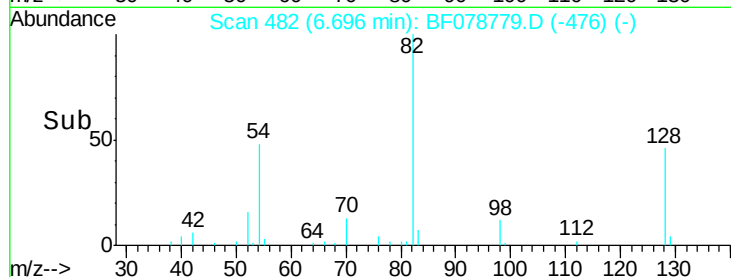
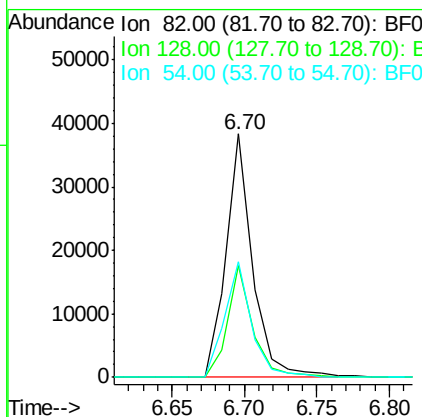
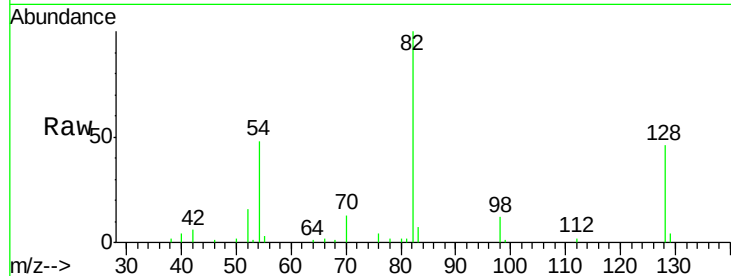




#23
 Nitrobenzene-d5
 Concen: 30.49 ng
 RT: 6.70 min Scan# 482
 Delta R.T. -0.03 min
 Lab File: BF078779.D
 Acq: 24 Apr 2015 9:28

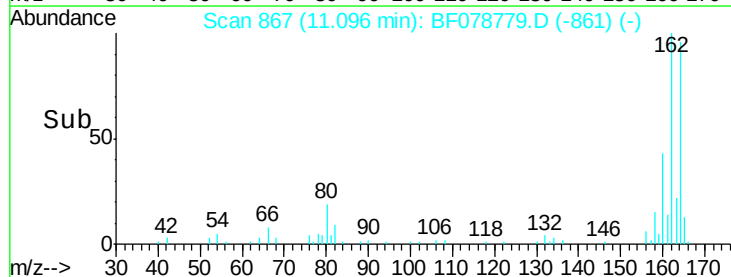
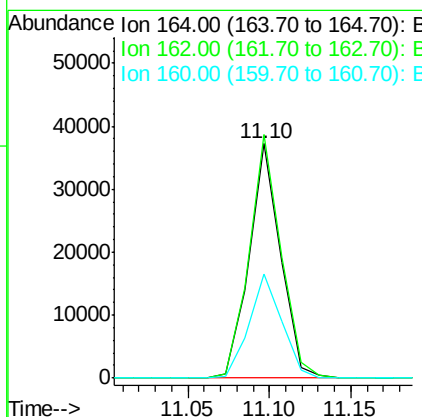
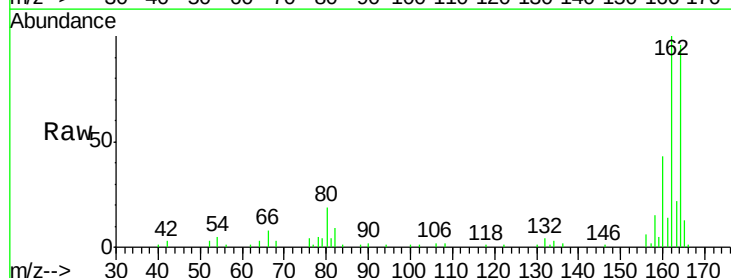
Instrument :
 BNA_F
 ClientSampleId :
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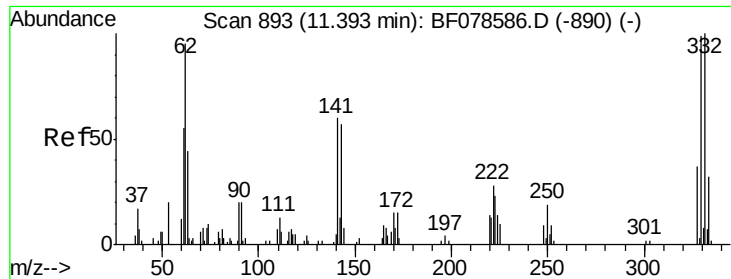
Tot Ion	82	Resp	48753
Ion Ratio	Lower	Upper	
82	100		
128	46.2	31.8	47.8
54	47.7	41.5	62.3



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 11.10 min Scan# 867
 Delta R.T. -0.03 min
 Lab File: BF078779.D
 Acq: 24 Apr 2015 9:28

Tgt Ion	164	Resp	49631
Ion Ratio	Lower	Upper	
164	100		
162	103.9	82.2	123.2
160	44.5	34.7	52.1

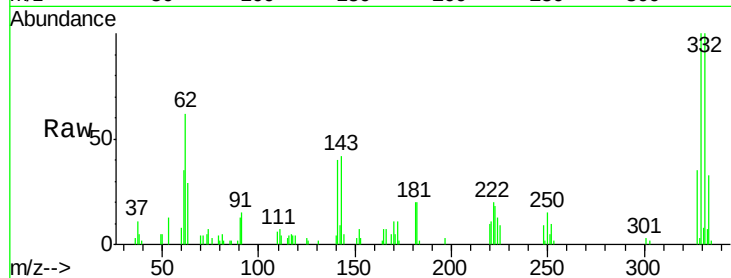




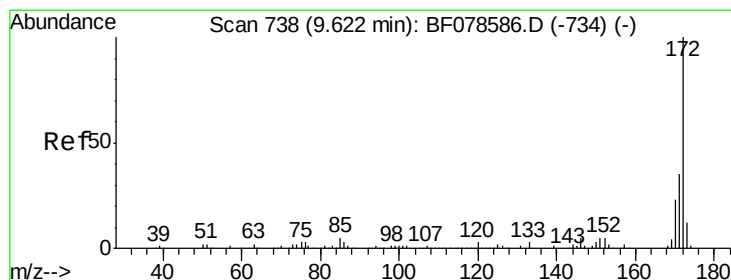
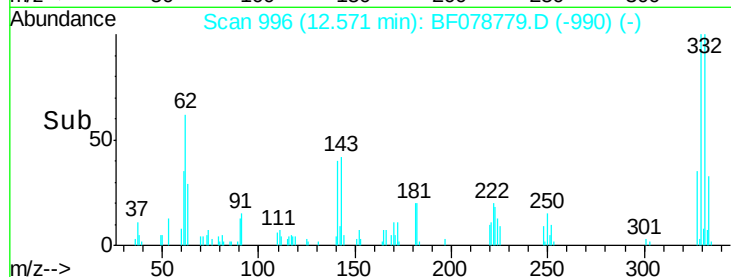
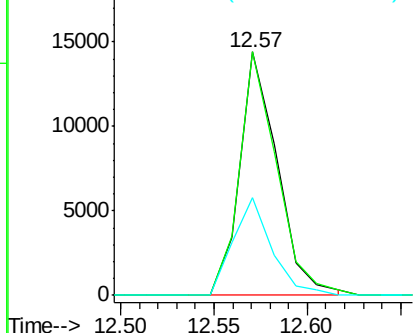
#41
 2,4,6-Tribromophenol
 Concen: 49.49 ng
 RT: 12.57 min Scan# 996
 Delta R.T. -0.03 min
 Lab File: BF078779.D
 Acq: 24 Apr 2015 9:28

Instrument :
 BNA_F
 ClientSampleId :
 SB-76SDL

Tot Ion	Ratio	Lower	Upper
330	100		
332	99.3	78.6	117.8
141	40.9	31.2	46.8

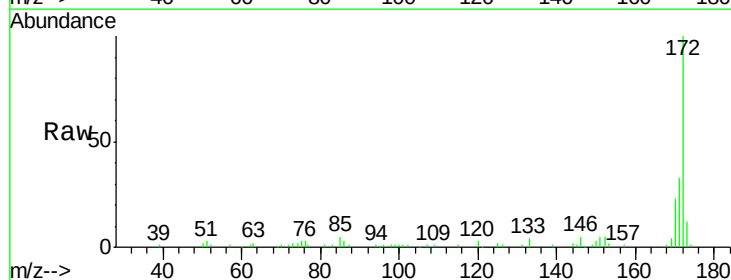


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

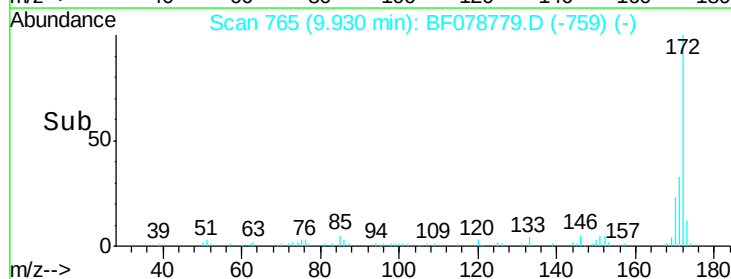
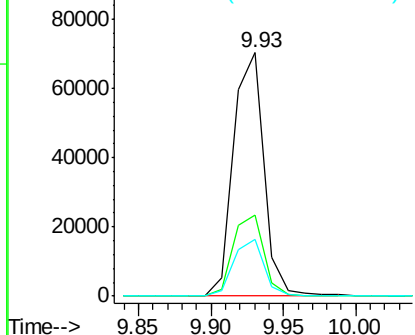


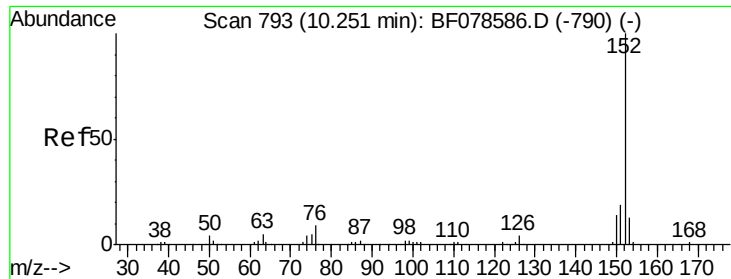
#44
 2-Fluorobiphenyl
 Concen: 29.62 ng
 RT: 9.93 min Scan# 765
 Delta R.T. -0.03 min
 Lab File: BF078779.D
 Acq: 24 Apr 2015 9:28

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.4	28.6	42.8
170	23.5	18.5	27.7



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: 2.18 ng

RT: 10.83 min Scan# 844

Delta R.T. -0.03 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

Instrument :

BNA_F

ClientSampled :

SB-76SDL

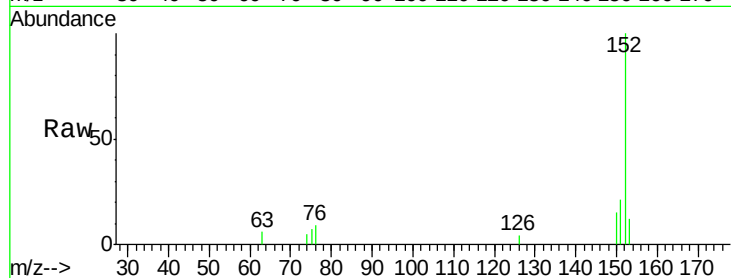
Tot Ion:152 Resp: 11223

Ion Ratio Lower Upper

152 100

151 21.0 15.7 23.5

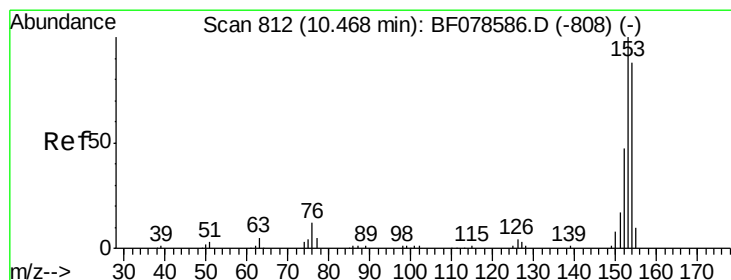
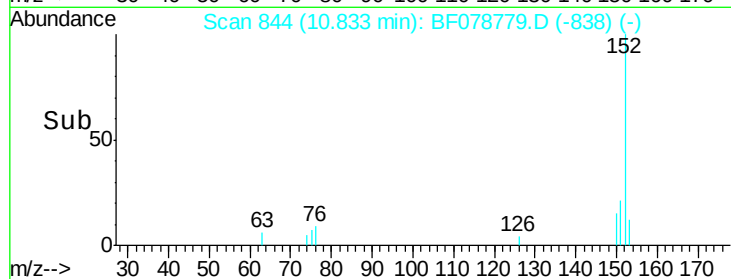
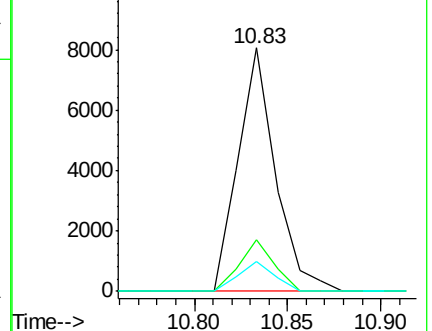
153 12.3 10.2 15.2



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



#51

Acenaphthene

Concen: 3.94 ng

RT: 11.15 min Scan# 872

Delta R.T. -0.03 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

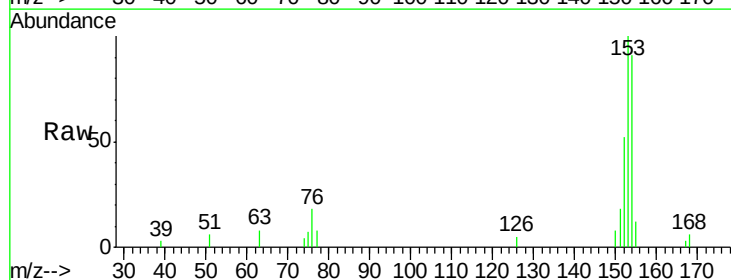
Tgt Ion:154 Resp: 11437

Ion Ratio Lower Upper

154 100

153 109.6 91.4 137.2

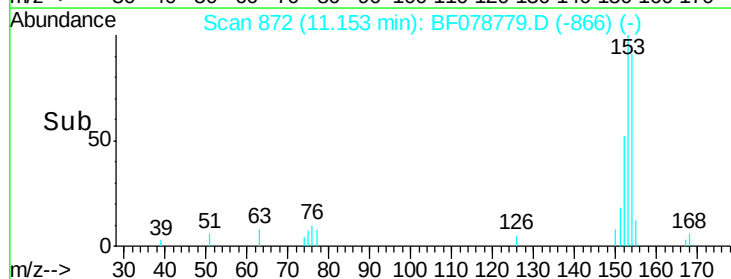
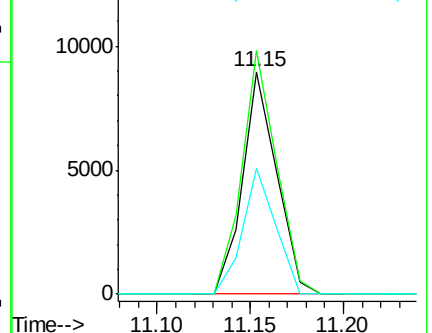
152 56.9 43.0 64.6

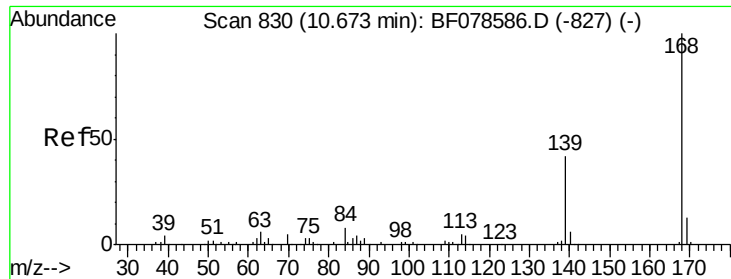


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

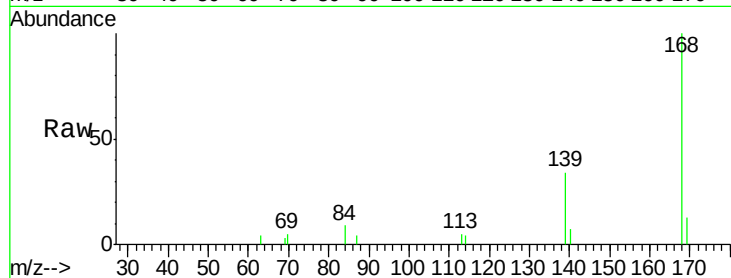




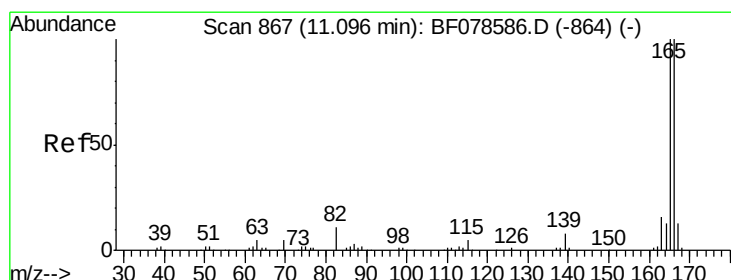
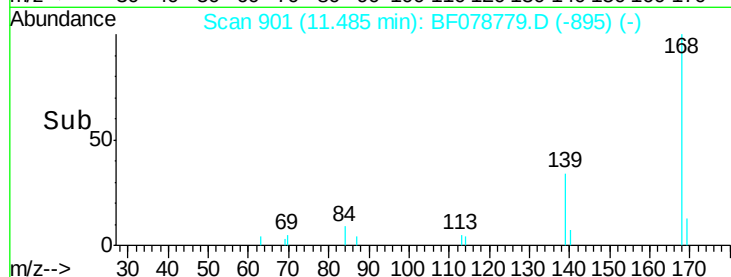
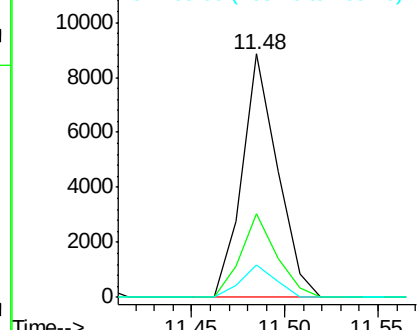
#54
Dibenzenofuran
Concen: 2.64 ng
RT: 11.48 min Scan# 901
Delta R.T. -0.03 min
Lab File: BF078779.D
Acq: 24 Apr 2015 9:28

Instrument :
BNA_F
ClientSampleId :
SB-76SDL

Tot Ion:168 Resp: 11689
Ion Ratio Lower Upper
168 100
139 34.5 31.0 46.4
169 13.1 10.7 16.1

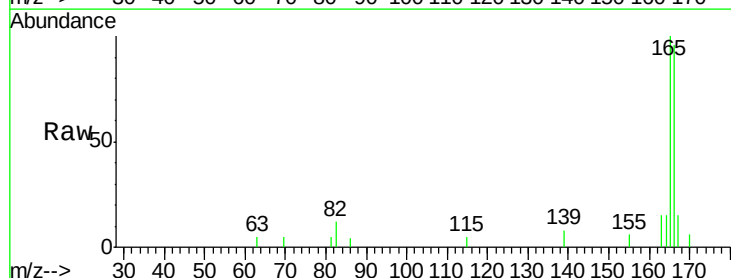


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

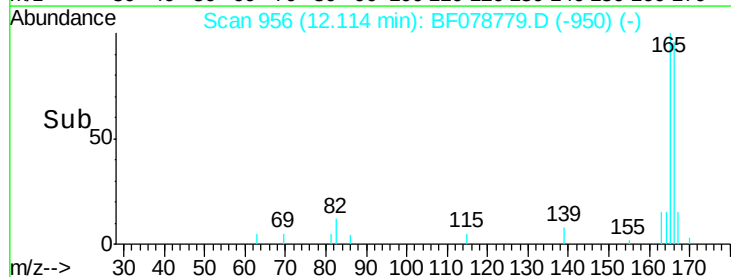
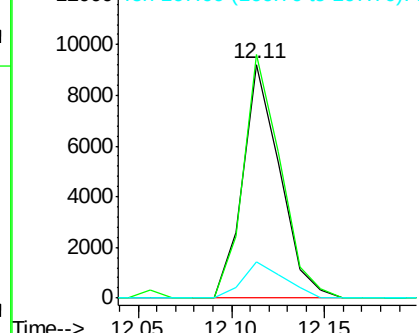


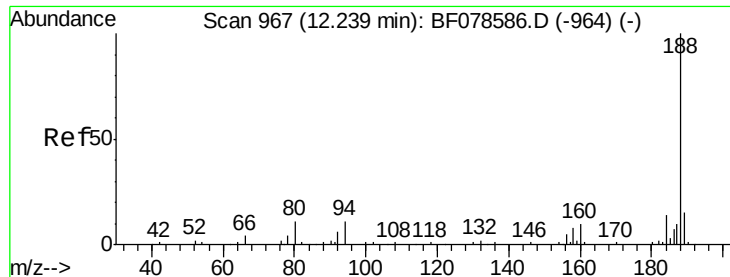
#57
Fluorene
Concen: 3.55 ng
RT: 12.11 min Scan# 956
Delta R.T. -0.03 min
Lab File: BF078779.D
Acq: 24 Apr 2015 9:28

Tgt Ion:166 Resp: 12758
Ion Ratio Lower Upper
166 100
165 104.2 78.9 118.3
167 15.5 10.7 16.1



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

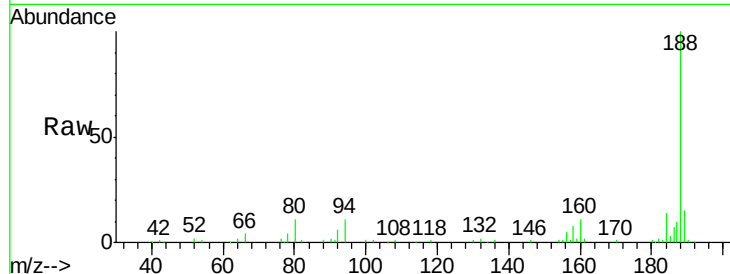




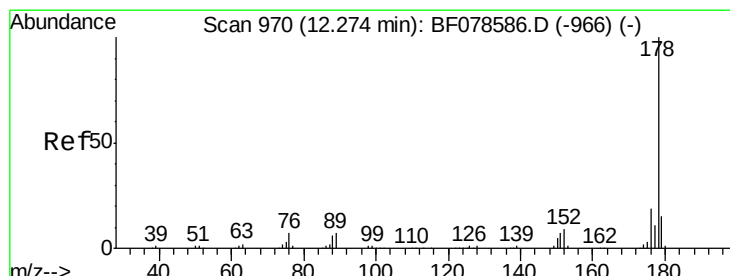
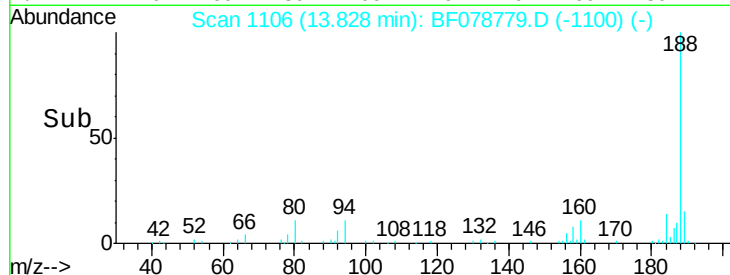
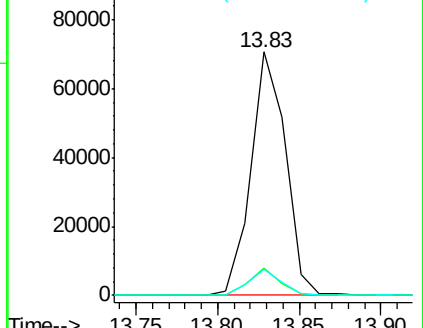
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 13.83 min Scan# 1106
 Delta R.T. -0.03 min
 Lab File: BF078779.D
 Acq: 24 Apr 2015 9:28

Instrument :
 BNA_F
 ClientSampleId :
 SB-76SDL

Tot Ion:188	Resp:	103957
Ion	Ratio	Lower Upper
188	100	
94	11.0	9.0 13.4
80	10.7	9.5 14.3

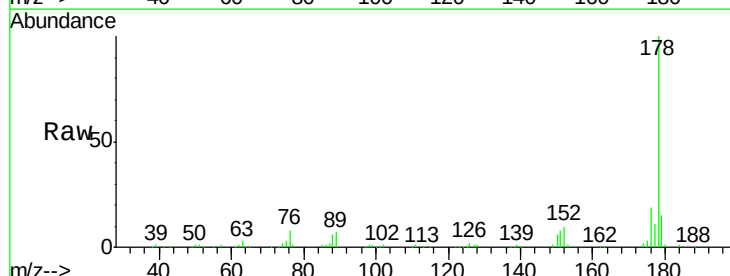


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

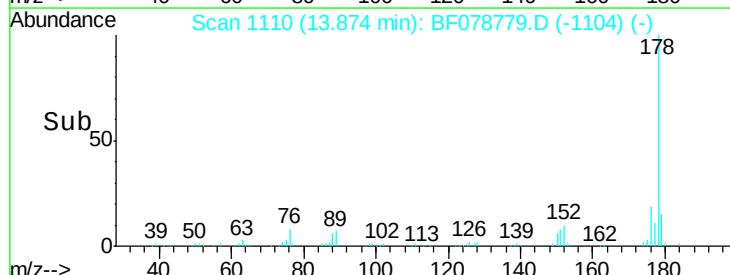
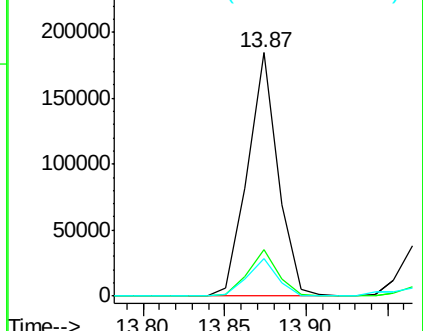


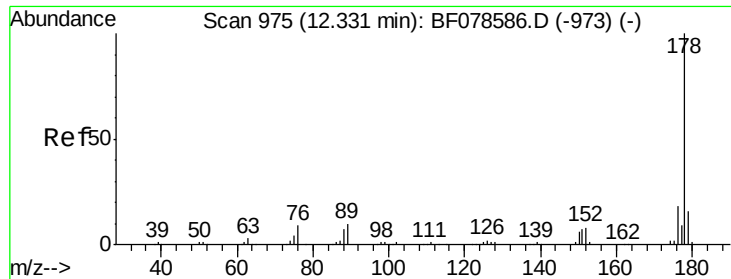
#70
 Phenanthrene
 Concen: 39.83 ng
 RT: 13.87 min Scan# 1110
 Delta R.T. -0.03 min
 Lab File: BF078779.D
 Acq: 24 Apr 2015 9:28

Tgt Ion:178	Resp:	239495
Ion	Ratio	Lower Upper
178	100	
176	19.2	15.4 23.0
179	15.4	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

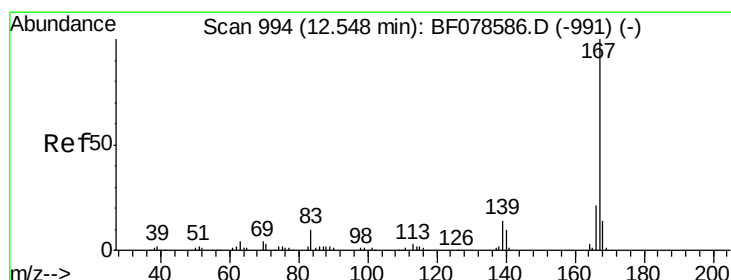
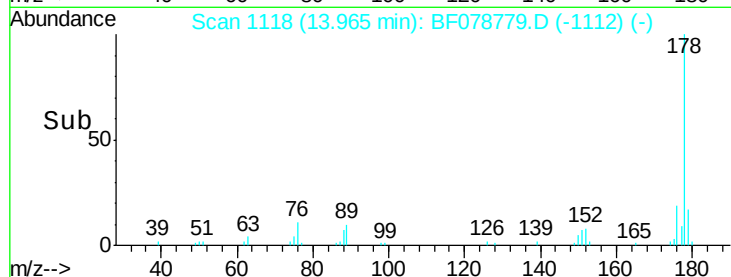
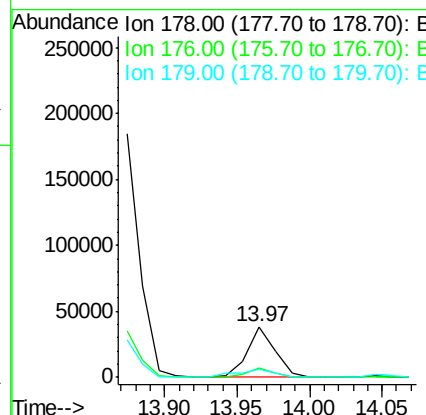
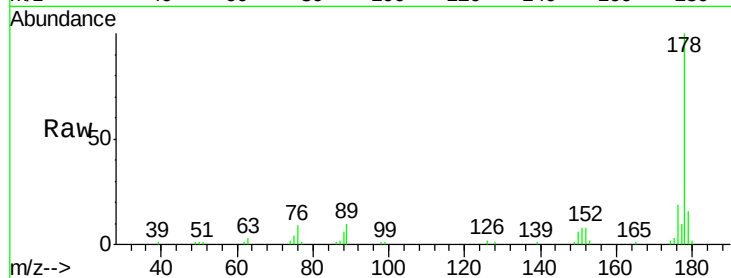




#71
 Anthracene
 Concen: 8.59 ng
 RT: 13.97 min Scan# 1118
 Delta R.T. -0.03 min
 Lab File: BF078779.D
 Acq: 24 Apr 2015 9:28

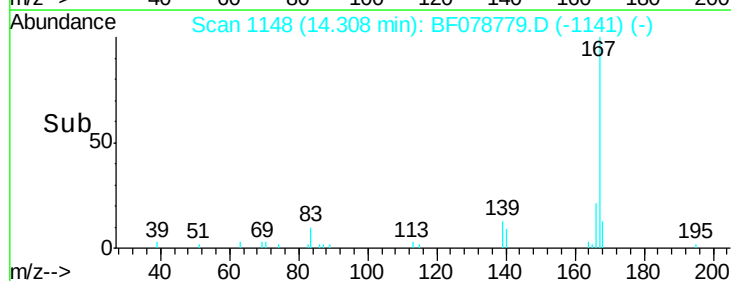
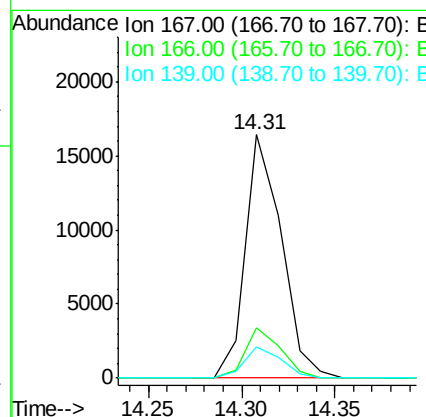
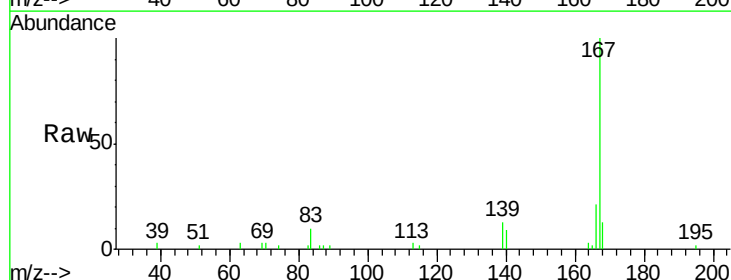
Instrument :
 BNA_F
 ClientSampleId :
 SB-76SDL

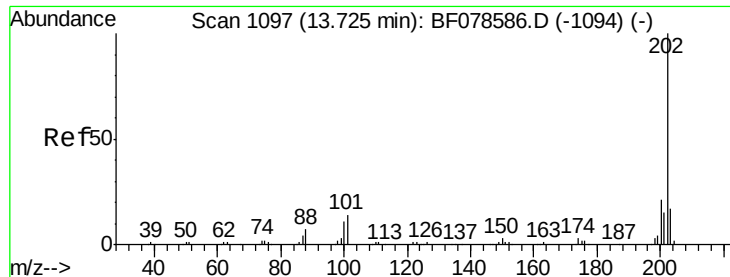
Tot Ion:178 Resp: 50929
 Ion Ratio Lower Upper
 178 100
 176 18.9 14.8 22.2
 179 16.2 12.4 18.6



#72
 Carbazole
 Concen: 3.99 ng
 RT: 14.31 min Scan# 1148
 Delta R.T. -0.02 min
 Lab File: BF078779.D
 Acq: 24 Apr 2015 9:28

Tgt Ion:167 Resp: 22148
 Ion Ratio Lower Upper
 167 100
 166 20.8 16.8 25.2
 139 12.5 10.0 15.0





#74

Fluoranthene

Concen: 50.44 ng

RT: 15.77 min Scan# 1276

Delta R.T. -0.03 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

Instrument :

BNA_F

ClientSampleId :

SB-76SDL

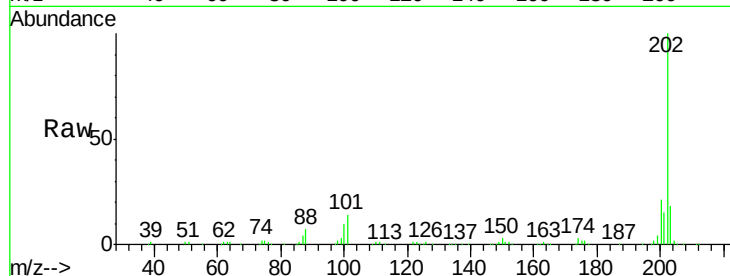
Tot Ion:202 Resp: 319860

Ion Ratio Lower Upper

202 100

101 13.7 0.0 35.2

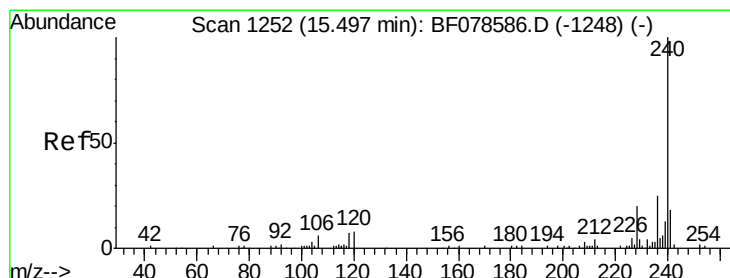
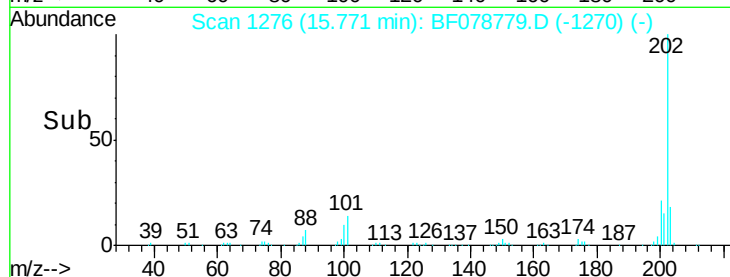
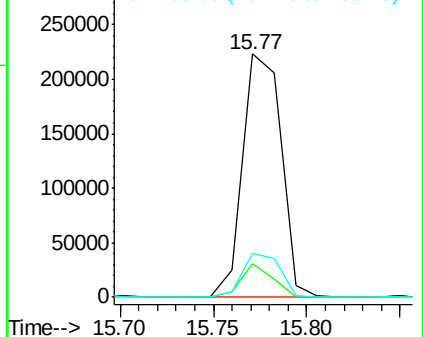
203 18.0 0.0 38.5



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: 17.71 min Scan# 1446

Delta R.T. -0.02 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

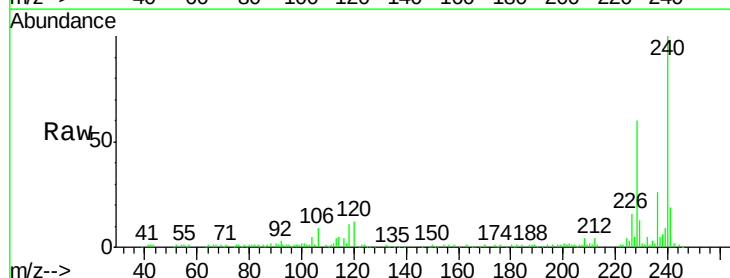
Tgt Ion:240 Resp: 114198

Ion Ratio Lower Upper

240 100

120 11.8 7.1 10.7#

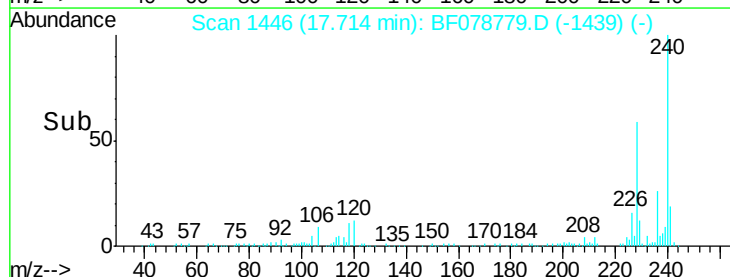
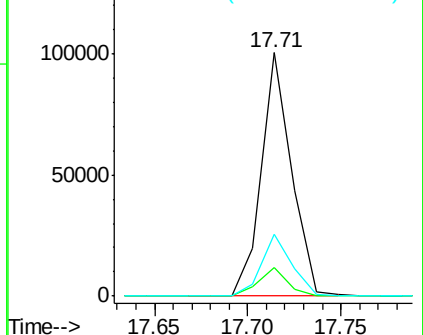
236 25.7 21.4 32.2

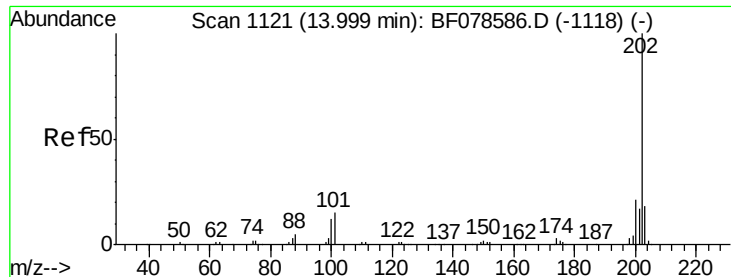


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 42.22 ng

RT: 16.09 min Scan# 1304

Delta R.T. -0.02 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

Instrument :

BNA_F

ClientSampleId :

SB-76SDL

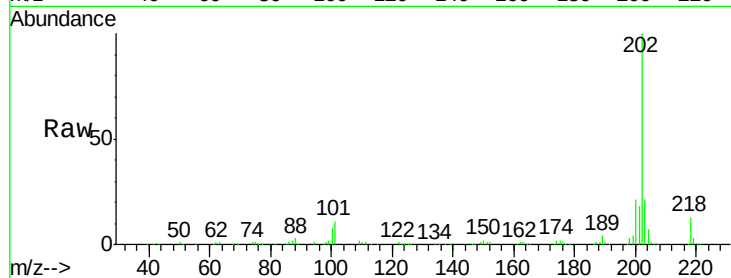
Tot Ion:202 Resp: 302646

Ion Ratio Lower Upper

202 100

200 21.4 16.3 24.5

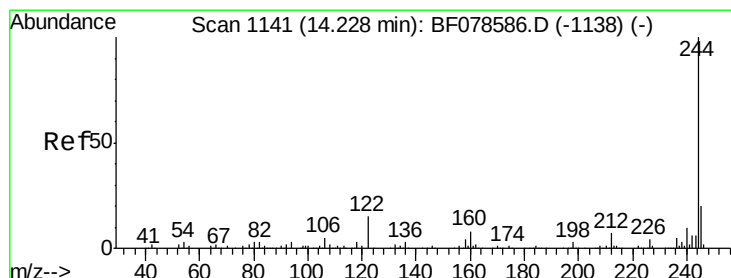
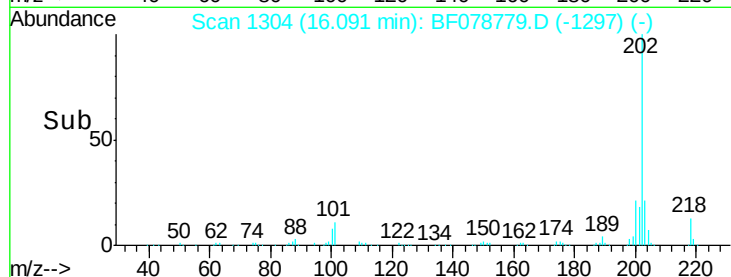
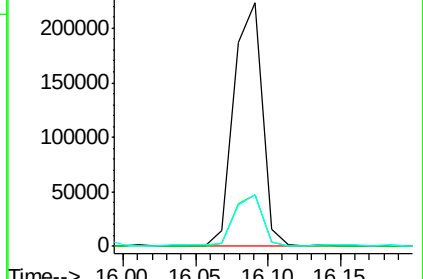
203 21.2 13.8 20.6#



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: 24.96 ng

RT: 16.38 min Scan# 1329

Delta R.T. -0.02 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

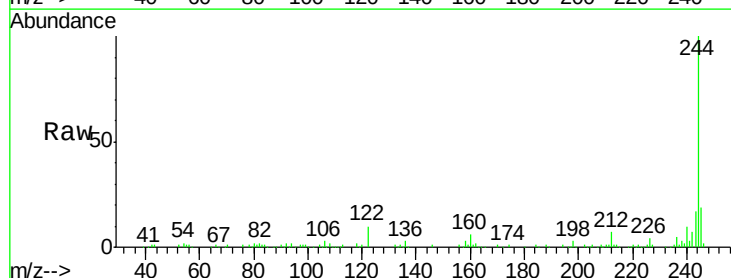
Tgt Ion:244 Resp: 126139

Ion Ratio Lower Upper

244 100

212 6.5 5.0 7.4

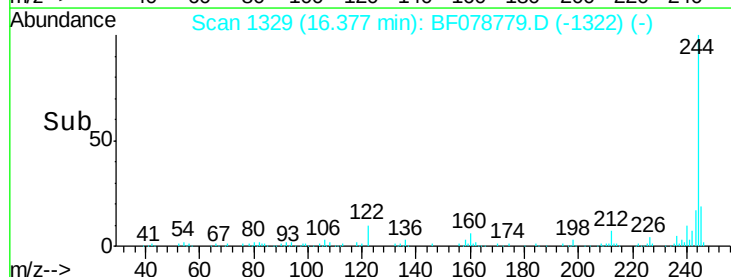
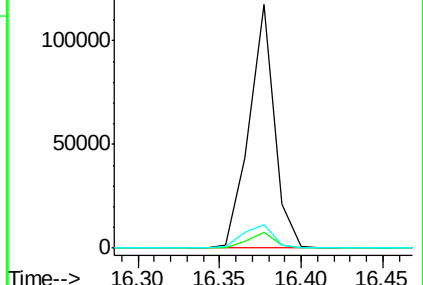
122 9.8 7.1 10.7

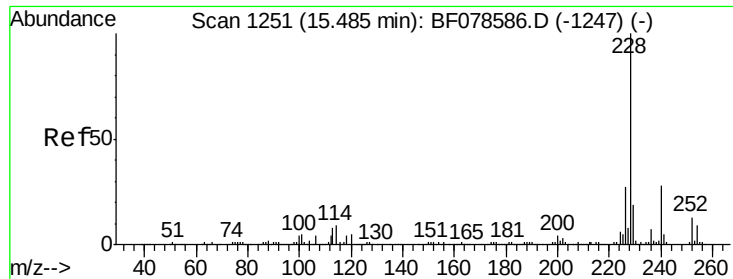


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 23.65 ng

RT: 17.70 min Scan# 1445

Delta R.T. -0.02 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

Instrument :

BNA_F

ClientSampleId :

SB-76SDL

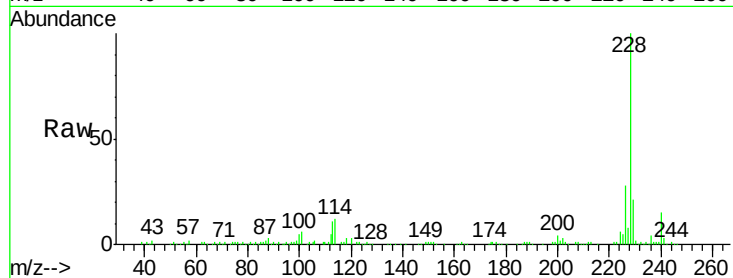
Tot Ion:228 Resp: 160683

Ion Ratio Lower Upper

228 100

226 28.0 21.3 31.9

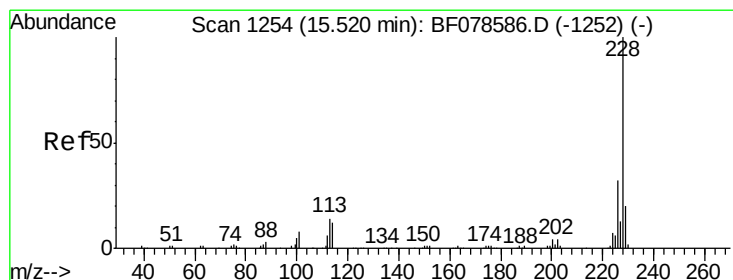
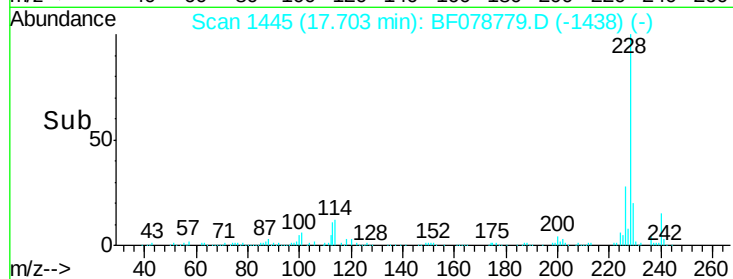
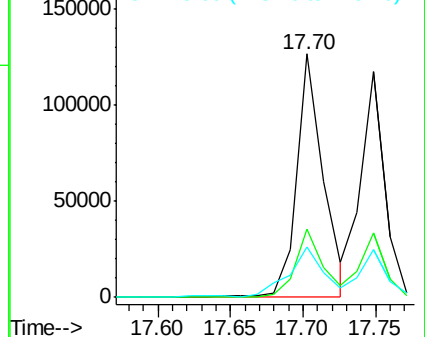
229 20.5 15.4 23.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 20.81 ng

RT: 17.75 min Scan# 1449

Delta R.T. -0.02 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

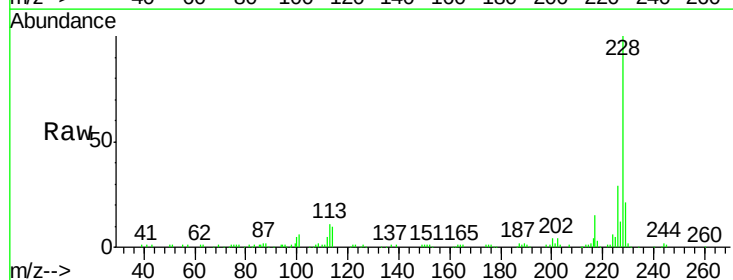
Tgt Ion:228 Resp: 132874

Ion Ratio Lower Upper

228 100

226 28.8 24.2 36.4

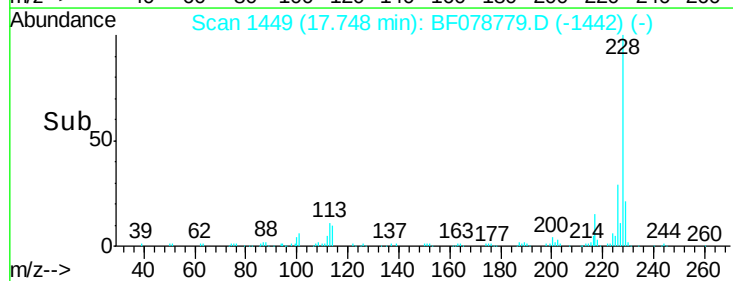
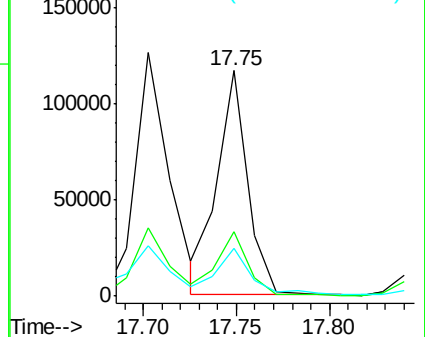
229 21.5 15.8 23.8

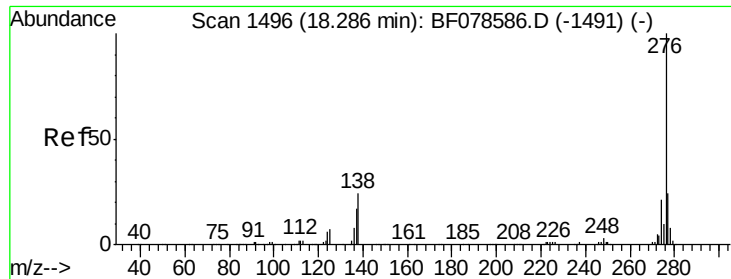


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

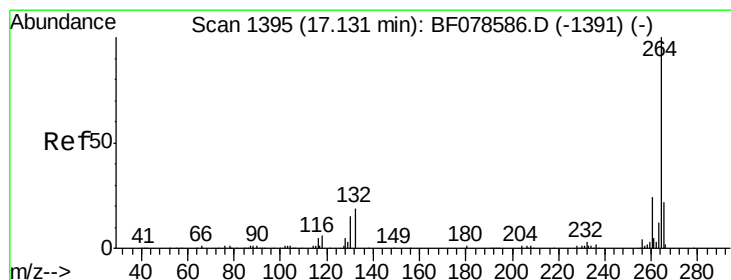
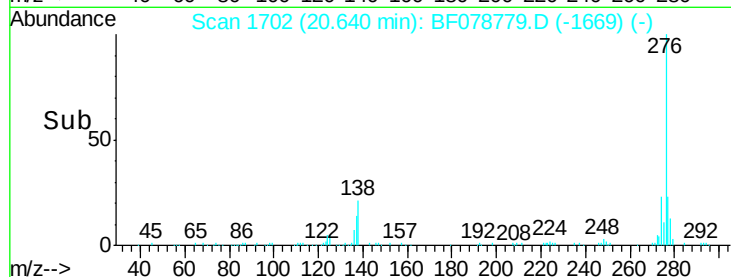
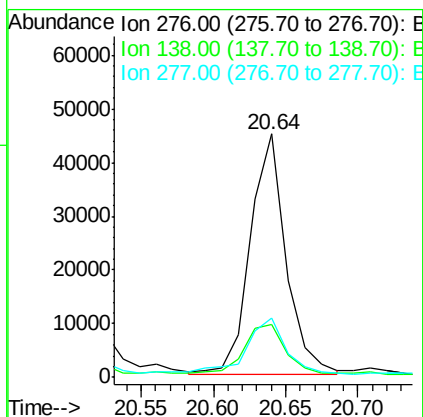
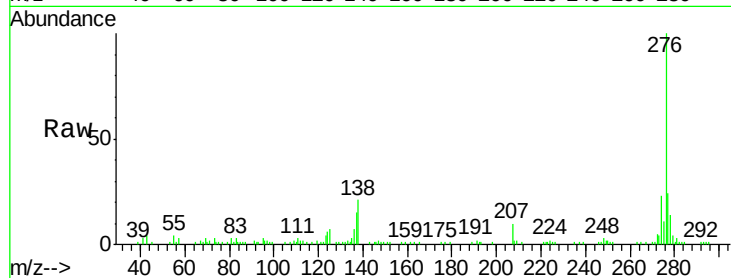




#85
Indeno(1,2,3-cd)pyrene
Concen: 10.64 ng/mL
RT: 20.64 min Scan# 1702
Delta R.T. 0.08 min
Lab File: BF078779.D
Acq: 24 Apr 2015 9:28

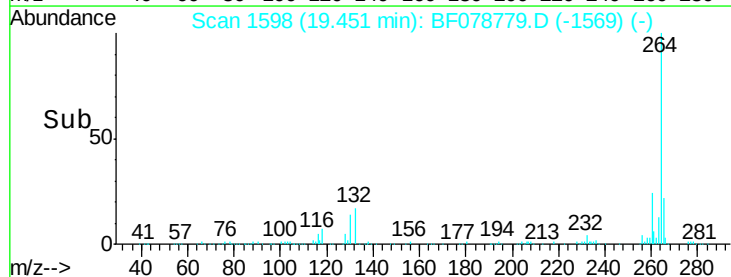
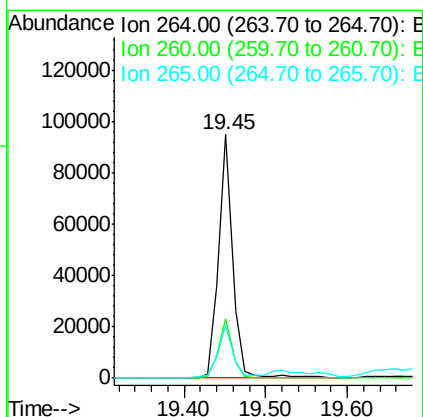
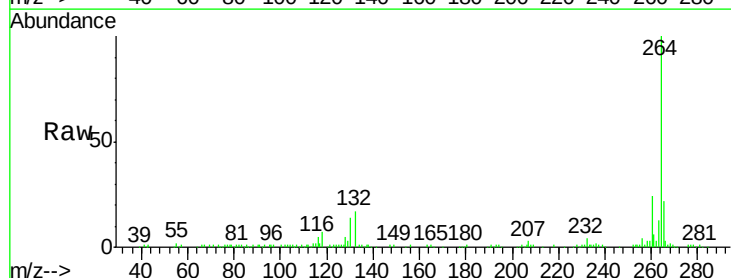
Instrument :
BNA_F
ClientSampleId :
SB-76SDL

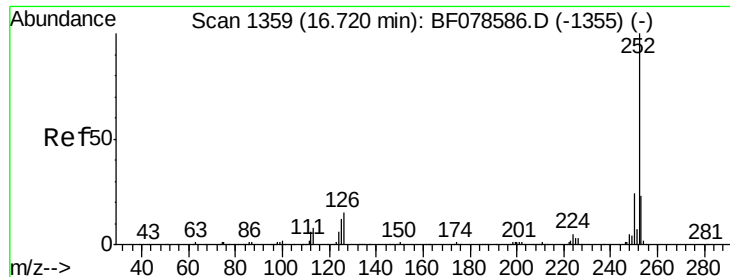
Tot Ion	Ratio	Lower	Upper
276	100		
138	5.1	16.9	25.3#
277	5.0	15.8	23.6#



#86
Perylene-d12
Concen: 20.00 ng
RT: 19.45 min Scan# 1598
Delta R.T. 0.03 min
Lab File: BF078779.D
Acq: 24 Apr 2015 9:28

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.6	27.8
265	21.9	17.0	25.6





#87

Benzo(b)fluoranthene

Concen: 27.84 ng m

RT: 19.02 min Scan# 1560

Delta R.T. 0.01 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

Instrument :

BNA_F

ClientSampled :

SB-76SDL

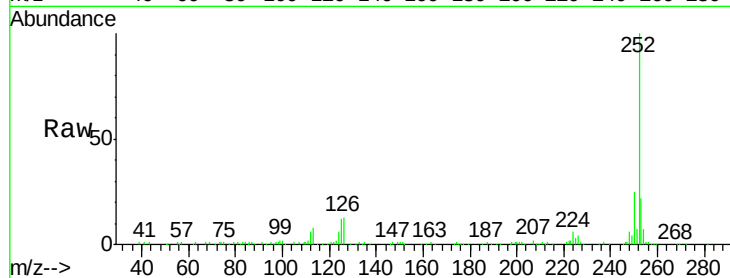
Tot Ion:252 Resp: 198346

Ion Ratio Lower Upper

252 100

253 21.8 17.2 25.8

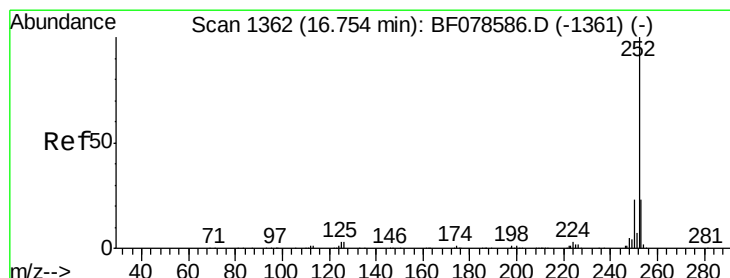
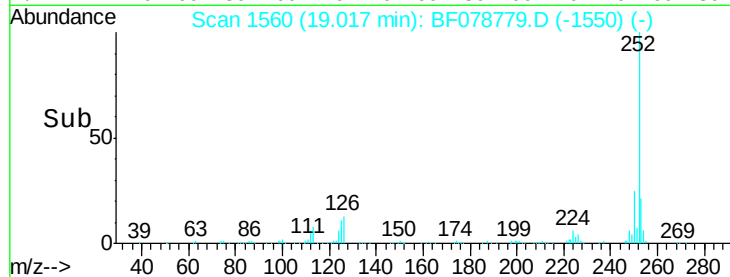
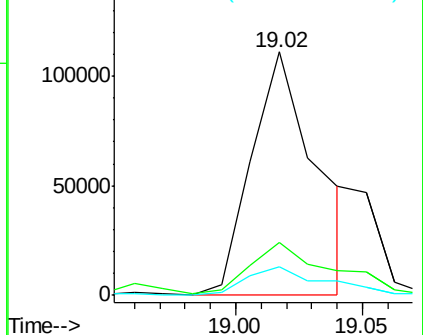
125 11.5 7.0 10.4#



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: 5.85 ng m

RT: 19.04 min Scan# 1562

Delta R.T. -0.00 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

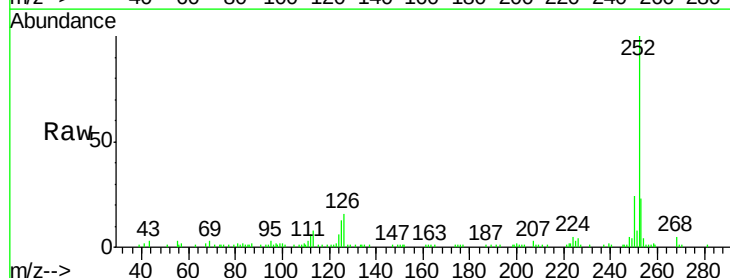
Tgt Ion:252 Resp: 37008

Ion Ratio Lower Upper

252 100

253 22.7 17.5 26.3

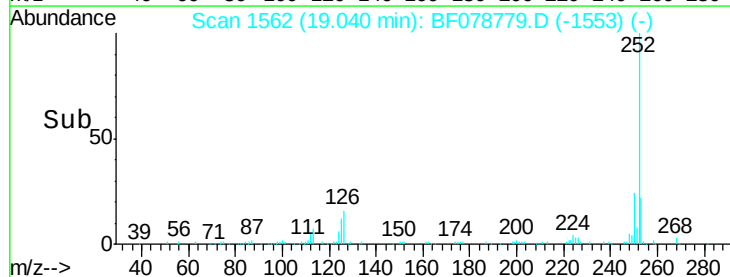
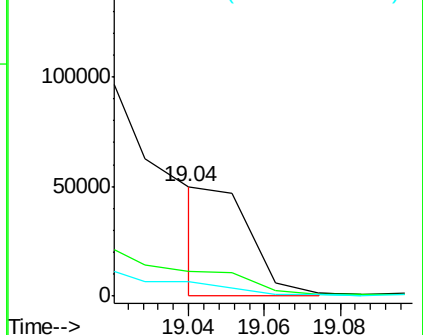
125 12.8 11.6 17.4

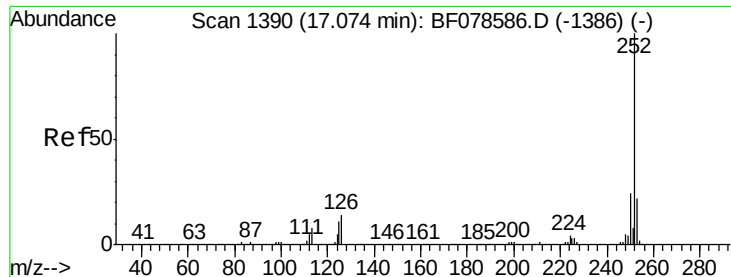


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 20.80 ng

RT: 19.38 min Scan# 1592

Delta R.T. 0.02 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

Instrument :

BNA_F

ClientSampleId :

SB-76SDL

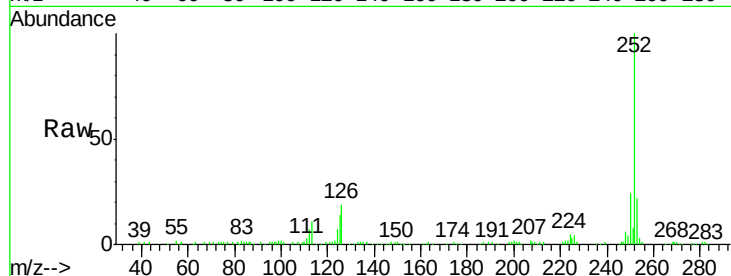
Tot Ion:252 Resp: 129340

Ion Ratio Lower Upper

252 100

253 22.2 16.8 25.2

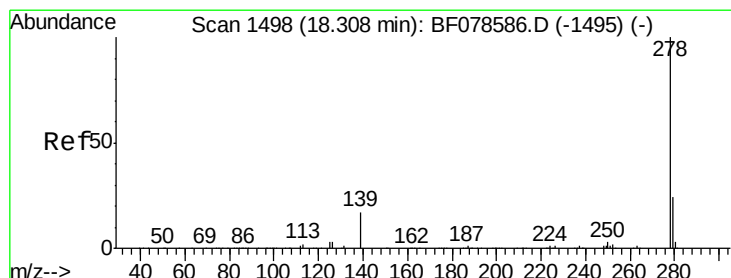
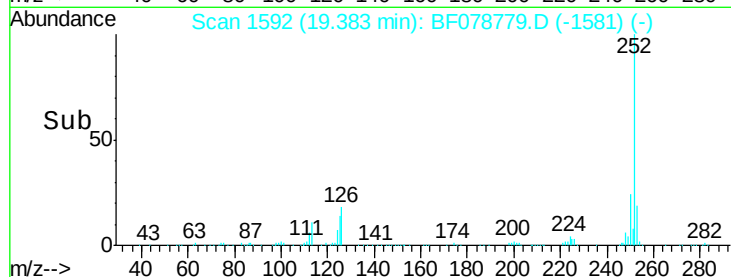
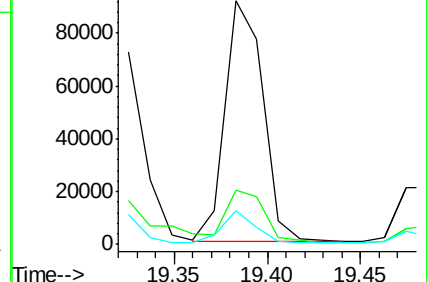
125 14.1 7.4 11.0#



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: 2.98 ng m

RT: 20.65 min Scan# 1703

Delta R.T. 0.07 min

Lab File: BF078779.D

Acq: 24 Apr 2015 9:28

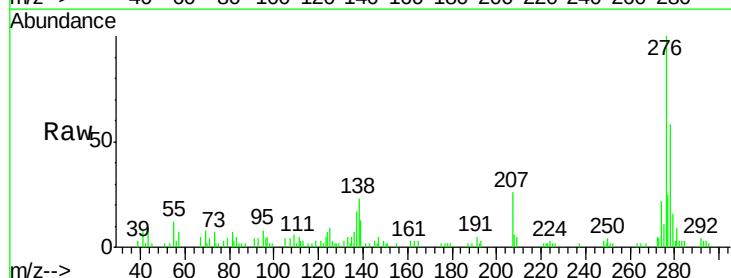
Tgt Ion:278 Resp: 18537

Ion Ratio Lower Upper

278 100

139 23.0 13.6 20.4#

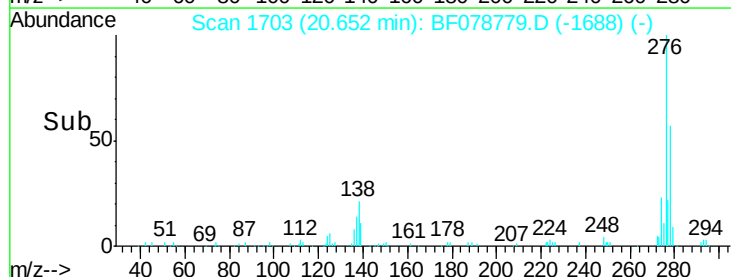
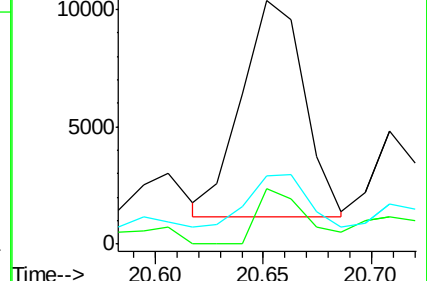
279 28.3 19.0 28.6

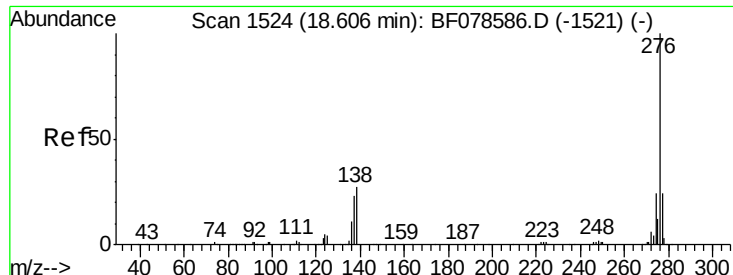


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

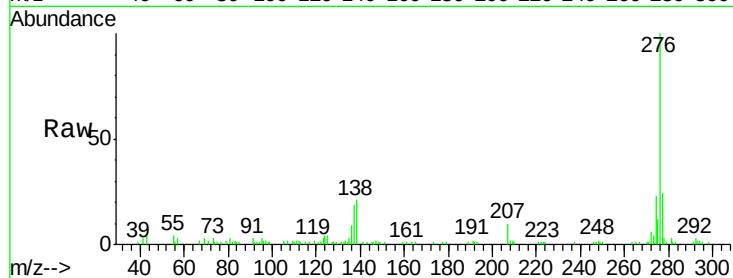




#91
 Benzo(a,h,i)perylene
 Concen: 11.39 ng
 RT: 20.95 min Scan# 1729
 Delta R.T. 0.07 min
 Lab File: BF078779.D
 Acq: 24 Apr 2015 9:28

Instrument :
 BNA_F
 ClientSampleId :
 SB-76SDL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.0	28.4
138	21.1	19.9	29.9



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

