

Data Path : Z:\HPCHEM1\BNA F\Data\BF011915\
 Data File : BF076954.D
 Acq On : 20 Jan 2015 7:27
 Operator : IZ / TP
 Sample : G1076-05
 Misc : W
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 20 08:09:55 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF011415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 20 06:05:35 2015
 Response via : Initial Calibration

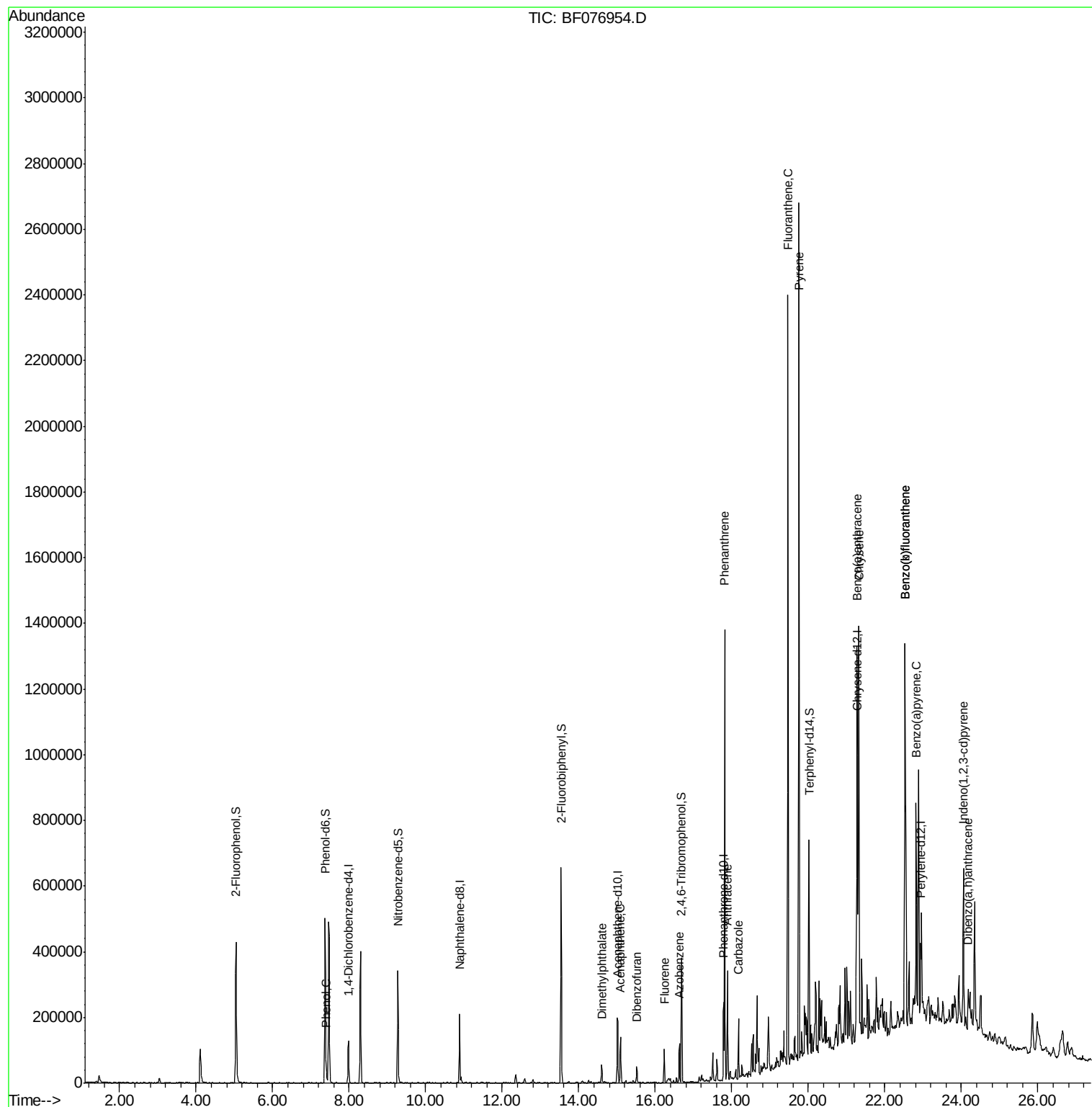
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.98	152	35263	20.00	ng	0.01
21) Naphthalene-d8	10.88	136	154741	20.00	ng	0.00
38) Acenaphthene-d10	15.02	164	81357	20.00	ng	0.01
63) Phenanthrene-d10	17.79	188	133827	20.00	ng	0.01
75) Chrysene-d12	21.28	240	129106	20.00	ng	0.01
86) Perylene-d12	22.93	264	118456	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.04	112	220853	102.97	ng	0.00
7) Phenol-d6	7.37	99	278902	103.08	ng	-0.01
23) Nitrobenzene-d5	9.27	82	175510	62.84	ng	0.00
41) 2,4,6-Tribromophenol	16.69	330	61096	92.51	ng	0.00
44) 2-Fluorobiphenyl	13.53	172	332665	62.23	ng	0.00
78) Terphenyl-d14	20.01	244	297403	53.03	ng	0.01
Target Compounds						Qvalue
10) Phenol	7.41	94	10419	3.63	ng	87
49) Dimethylphthalate	14.60	163	39856	6.91	ng	96
51) Acenaphthene	15.09	154	53087	11.18	ng	92
54) Dibenzofuran	15.51	168	33183	4.80	ng	94
57) Fluorene	16.23	166	40134	6.85	ng	99
62) Azobenzene	16.63	77	34603	5.70	ng	# 1
70) Phenanthrene	17.82	178	624864	74.87	ng	99
71) Anthracene	17.89	178	153892	18.91	ng	98
72) Carbazole	18.17	167	78625	9.96	ng	98
74) Fluoranthene	19.47	202	1102957	128.98	ng	97
77) Pyrene	19.75	202	1095677	123.83	ng	# 91
80) Benzo(a)anthracene	21.27	228	625595	77.23	ng	98
82) Chrysene	21.32	228	494447	66.94	ng	96
85) Indeno(1,2,3-cd)pyrene	24.05	276	194611	24.86	ng	# 72
87) Benzo(b)fluoranthene	22.53	252	900098	112.82	ng	99
88) Benzo(k)fluoranthene	22.53	252	900098	129.13	ng	# 97
89) Benzo(a)pyrene	22.81	252	298607	42.43	ng	# 93
90) Dibenzo(a,h)anthracene	24.17	278	55762	8.64	ng	# 93

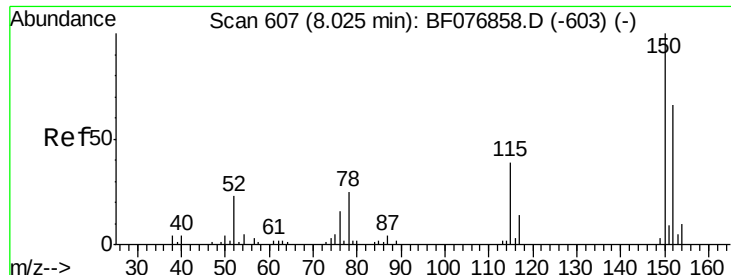
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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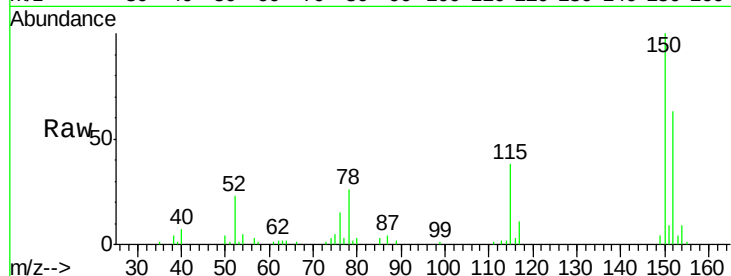


#1

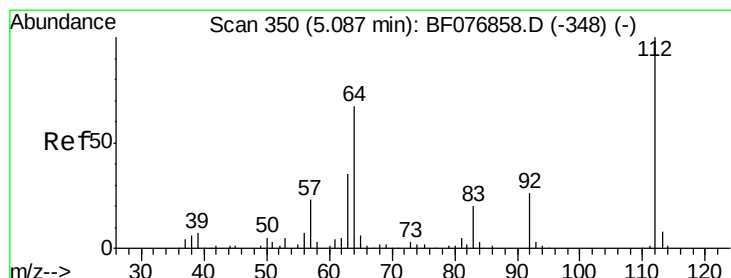
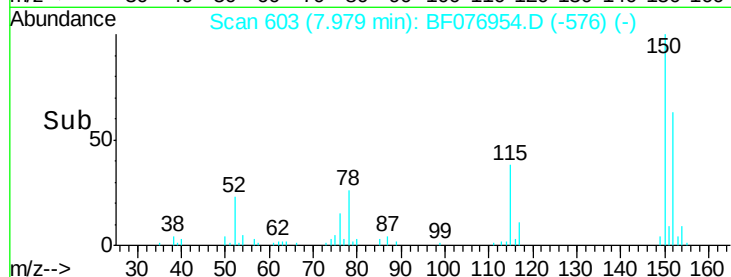
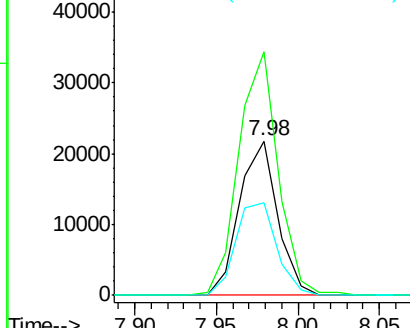
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.98 min Scan# 603
Delta R.T. 0.01 min
Lab File: BF076954.D
Acq: 20 Jan 2015 7:27

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 35263
Ion Ratio Lower Upper
152 100
150 157.9 121.7 182.5
115 60.0 47.0 70.6



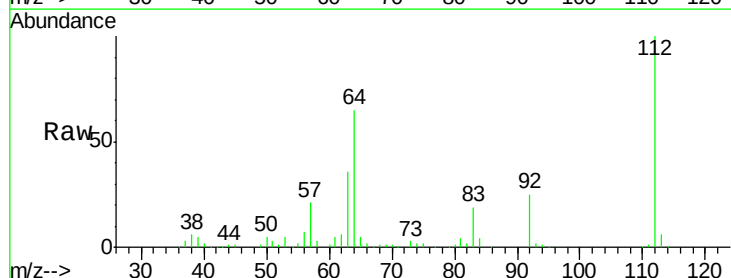
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



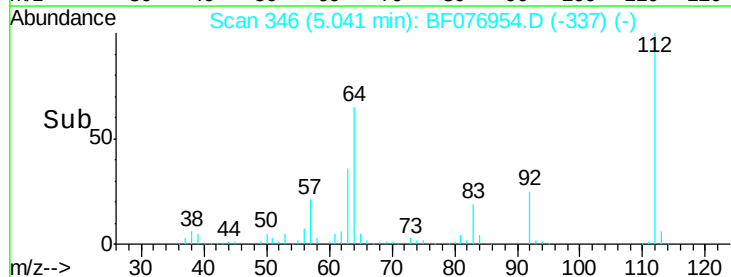
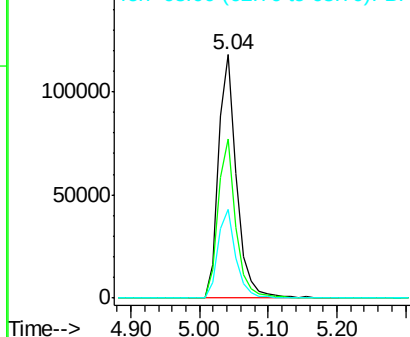
#5

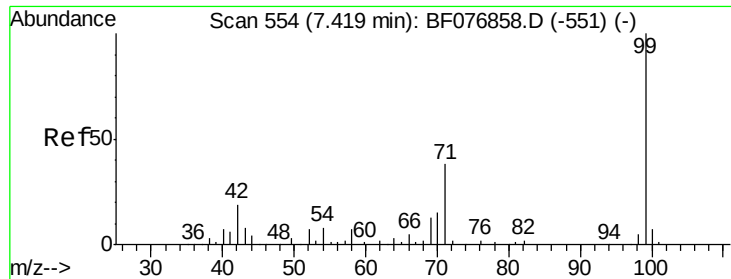
2-Fluorophenol
Concen: 102.97 ng
RT: 5.04 min Scan# 346
Delta R.T. -0.00 min
Lab File: BF076954.D
Acq: 20 Jan 2015 7:27

Tgt Ion:112 Resp: 220853
Ion Ratio Lower Upper
112 100
64 65.2 54.2 81.4
63 36.4 28.4 42.6



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: 103.08 ng

RT: 7.37 min Scan# 550

Delta R.T. -0.01 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

Instrument :

BNA_F

ClientSampleId :

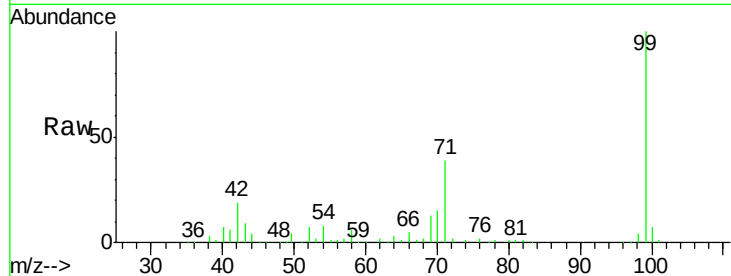
Tot Ion: 99 Resp: 278902

Ion Ratio Lower Upper

99 100

42 18.8 15.0 22.4

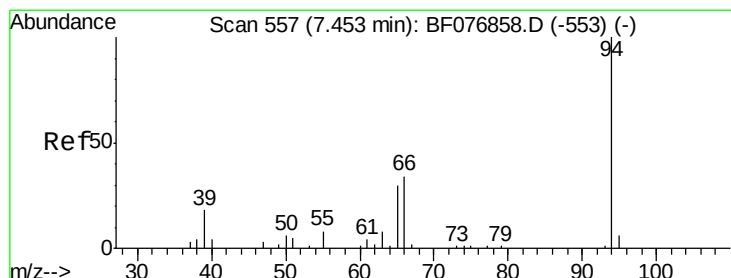
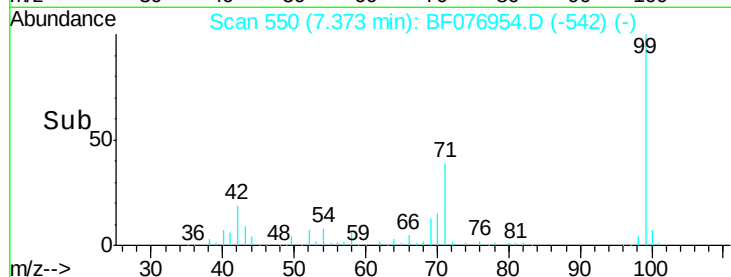
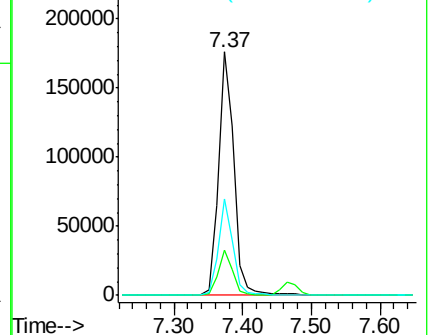
71 39.5 30.5 45.7



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



#10

Phenol

Concen: 3.63 ng

RT: 7.41 min Scan# 553

Delta R.T. -0.01 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

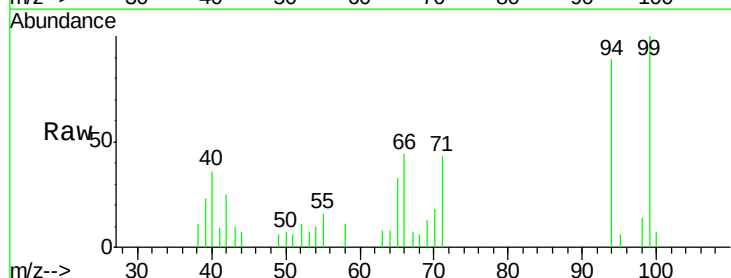
Tgt Ion: 94 Resp: 10419

Ion Ratio Lower Upper

94 100

65 36.6 11.3 51.3

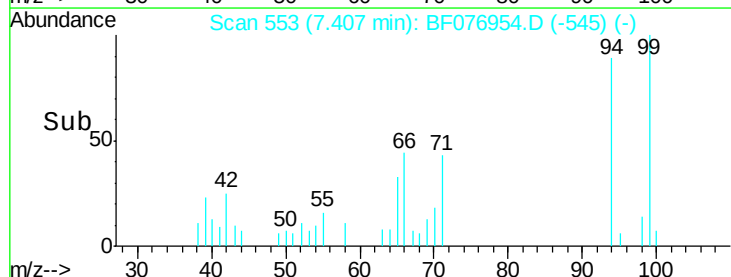
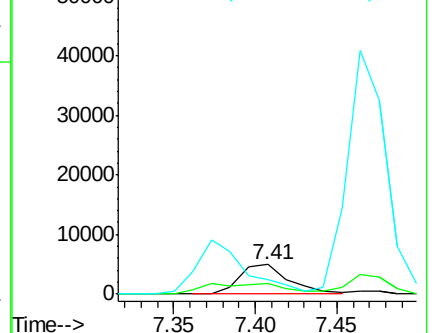
66 49.1 19.5 59.5

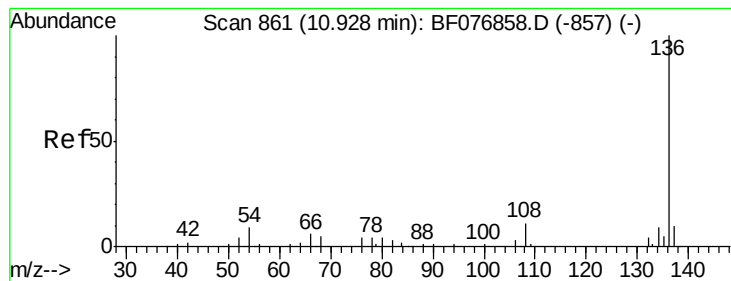


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.88 min Scan# 857

Delta R.T. 0.00 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 154741

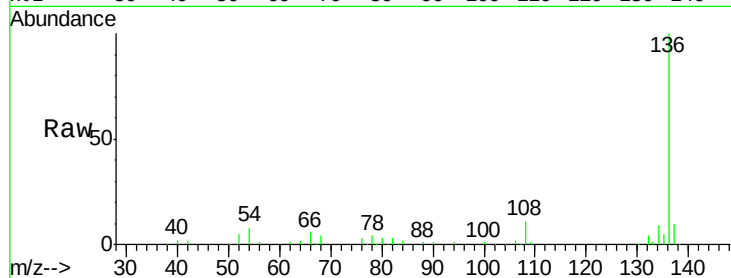
Ion Ratio Lower Upper

136 100

137 10.3 8.1 12.1

54 7.8 7.0 10.4

68 3.9 3.7 5.5

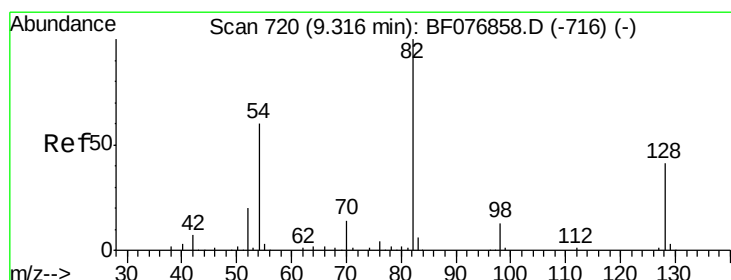
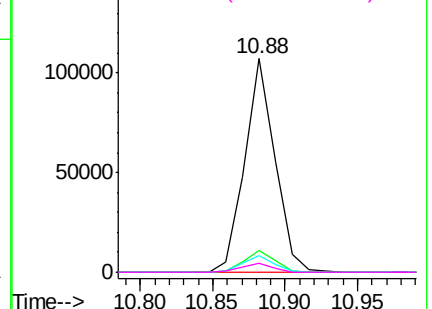
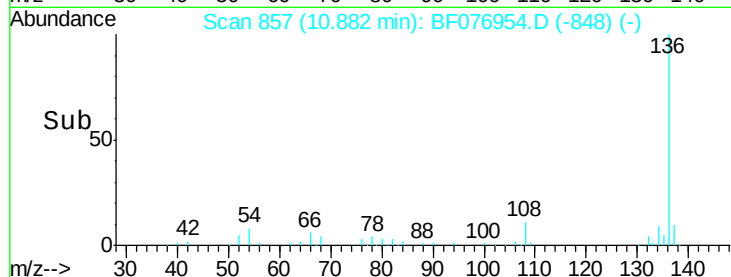


Abundance Ion 136.00 (135.70 to 136.70): E

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: 62.84 ng

RT: 9.27 min Scan# 716

Delta R.T. 0.00 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

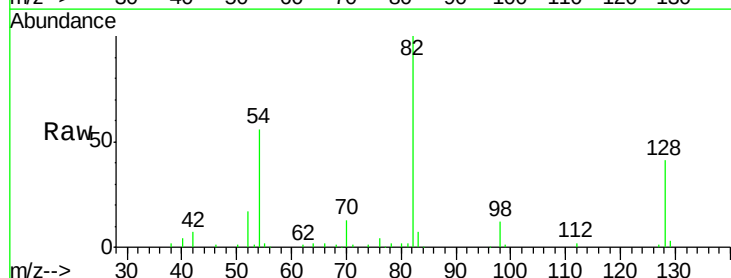
Tgt Ion: 82 Resp: 175510

Ion Ratio Lower Upper

82 100

128 41.2 33.1 49.7

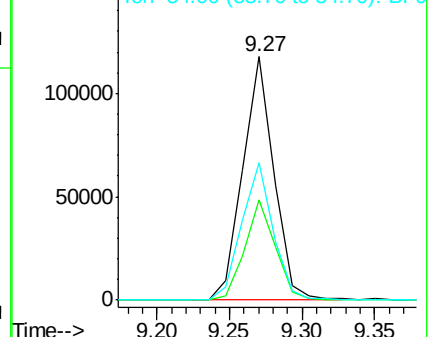
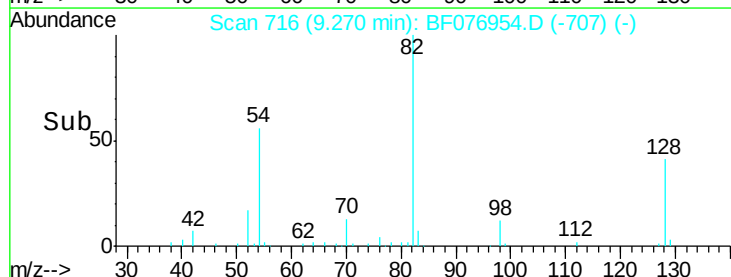
54 56.2 48.3 72.5

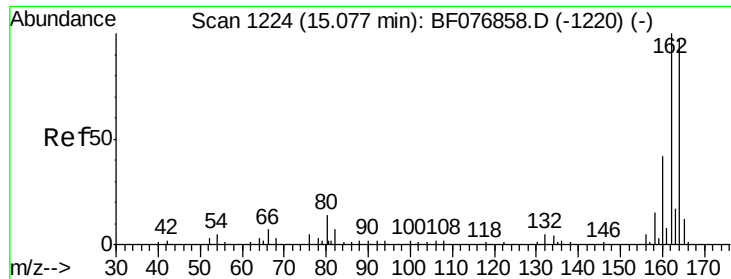


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 15.02 min Scan# 1219

Delta R.T. 0.01 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

Instrument :

BNA_F

ClientSampleId :

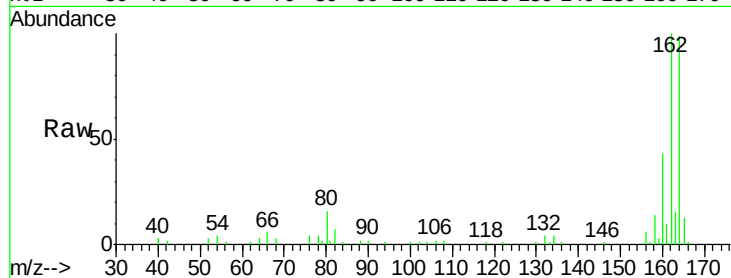
Tot Ion:164 Resp: 81357

Ion Ratio Lower Upper

164 100

162 101.2 82.4 123.6

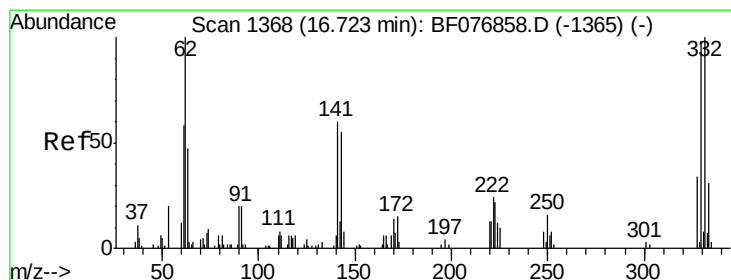
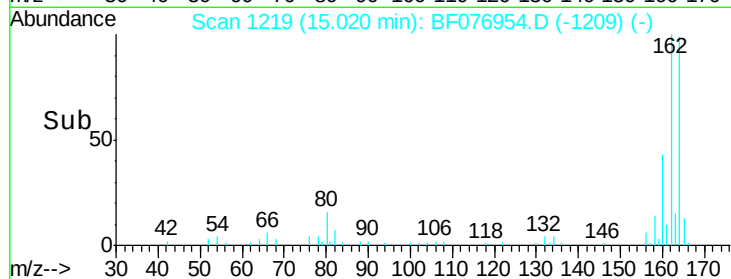
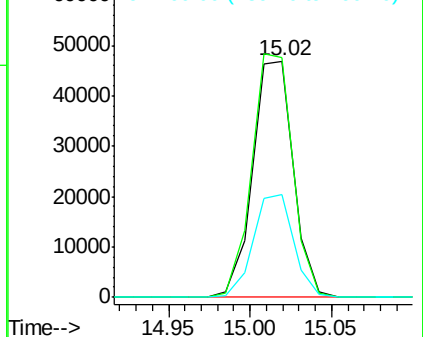
160 43.4 34.8 52.2



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: 92.51 ng

RT: 16.69 min Scan# 1365

Delta R.T. 0.00 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

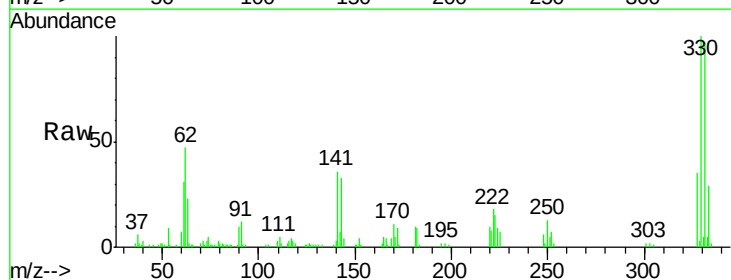
Tgt Ion:330 Resp: 61096

Ion Ratio Lower Upper

330 100

332 97.5 77.8 116.6

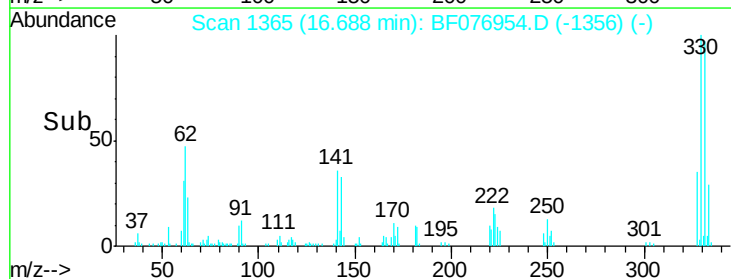
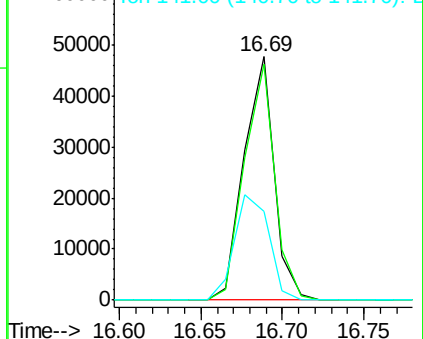
141 49.3 38.5 57.7

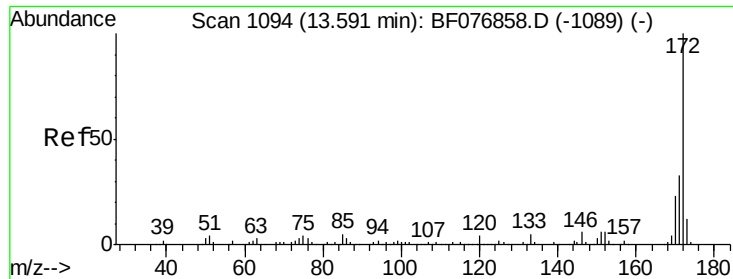


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

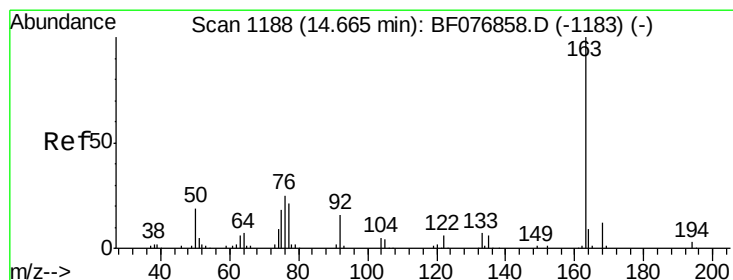
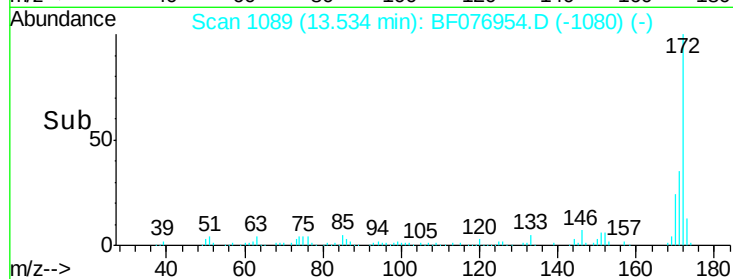
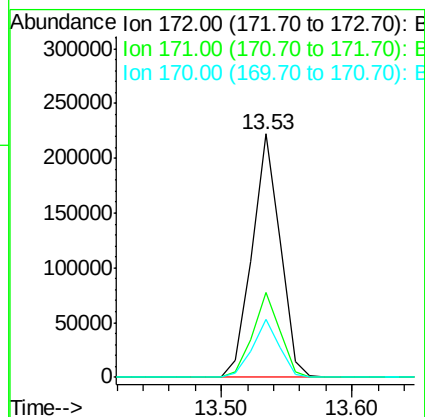
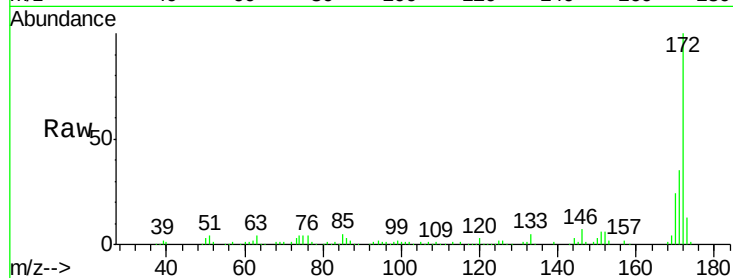




#44
2-Fluorobiphenyl
Concen: 62.23 ng
RT: 13.53 min Scan# 1089
Delta R.T. 0.00 min
Lab File: BF076954.D
Acq: 20 Jan 2015 7:27

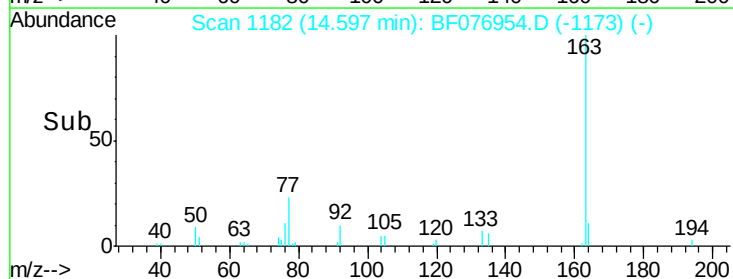
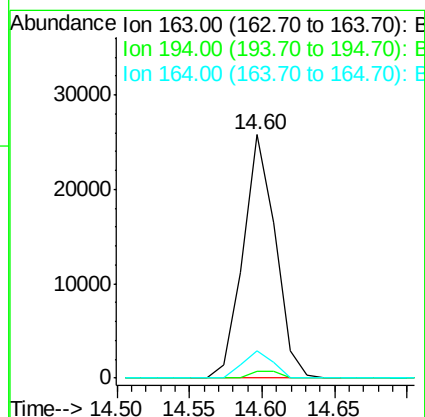
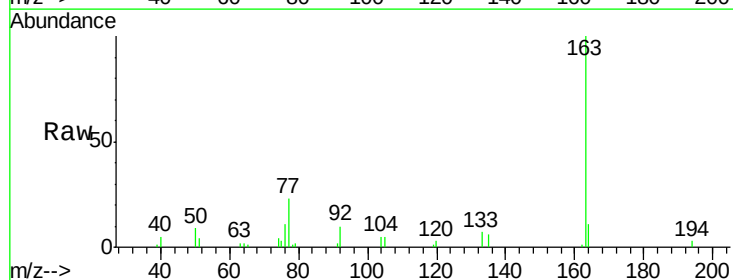
Instrument :
BNA_F
ClientSampleId :

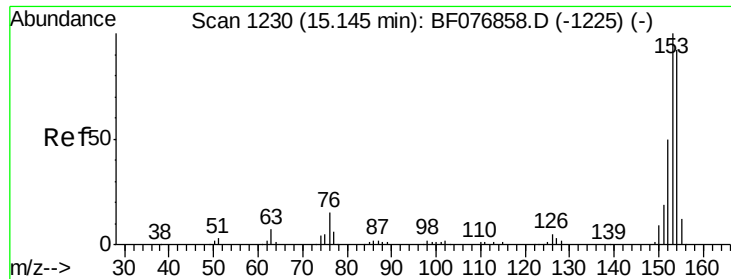
Tot Ion:172 Resp: 332665
Ion Ratio Lower Upper
172 100
171 34.8 26.6 40.0
170 23.7 18.0 27.0



#49
Dimethylphthalate
Concen: 6.91 ng
RT: 14.60 min Scan# 1182
Delta R.T. 0.00 min
Lab File: BF076954.D
Acq: 20 Jan 2015 7:27

Tgt Ion:163 Resp: 39856
Ion Ratio Lower Upper
163 100
194 2.9 2.6 4.0
164 11.0 7.5 11.3





#51

Acenaphthene

Concen: 11.18 ng

RT: 15.09 min Scan# 1225

Delta R.T. 0.00 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

Instrument :

BNA_F

ClientSampleId :

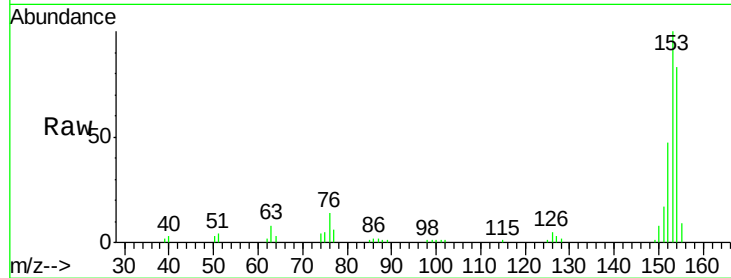
Tot Ion:154 Resp: 53087

Ion Ratio Lower Upper

154 100

153 120.3 87.0 130.6

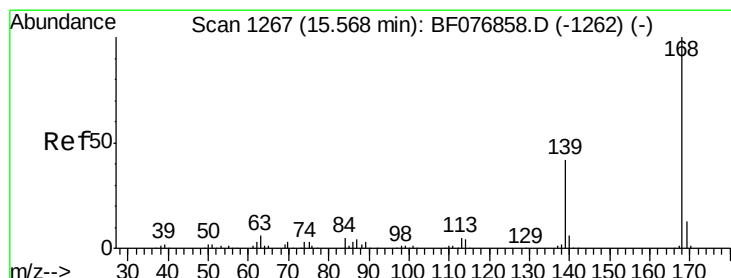
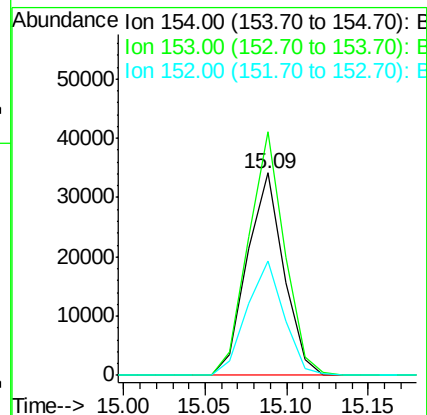
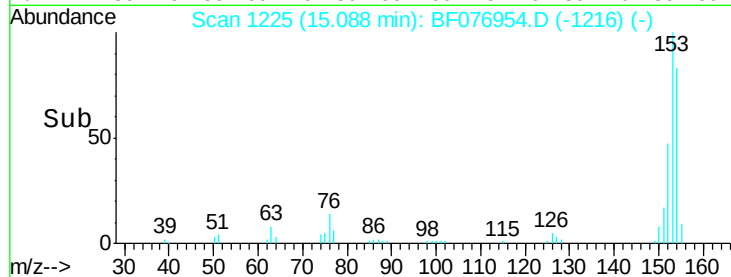
152 56.7 43.5 65.3



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: 4.80 ng

RT: 15.51 min Scan# 1262

Delta R.T. 0.00 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

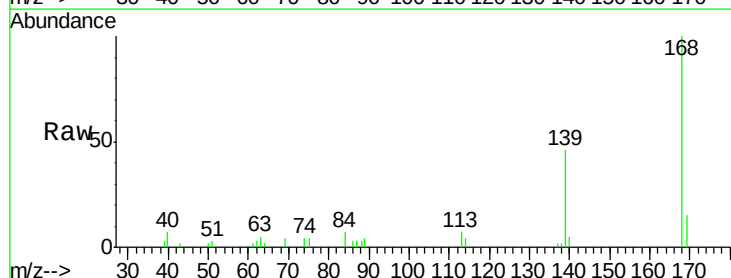
Tgt Ion:168 Resp: 33183

Ion Ratio Lower Upper

168 100

139 46.1 33.4 50.2

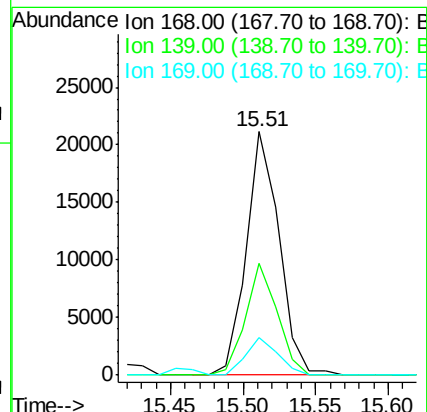
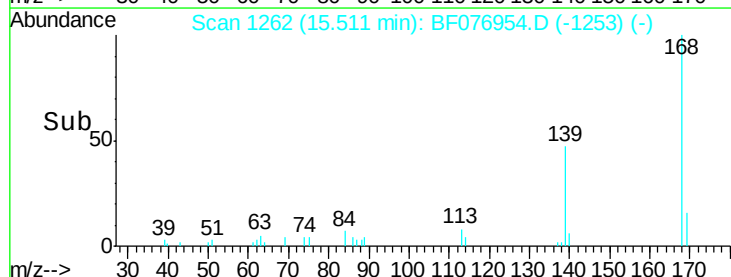
169 15.2 10.6 15.8

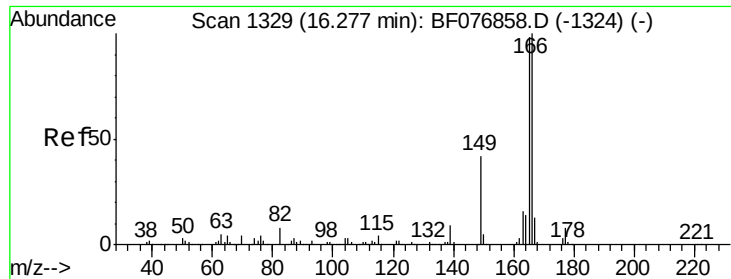


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 6.85 ng

RT: 16.23 min Scan# 1325

Delta R.T. -0.00 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

Instrument :

BNA_F

ClientSampleId :

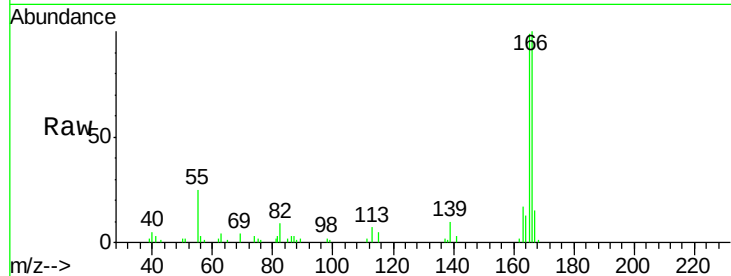
Tot Ion:166 Resp: 40134

Ion Ratio Lower Upper

166 100

165 99.2 78.5 117.7

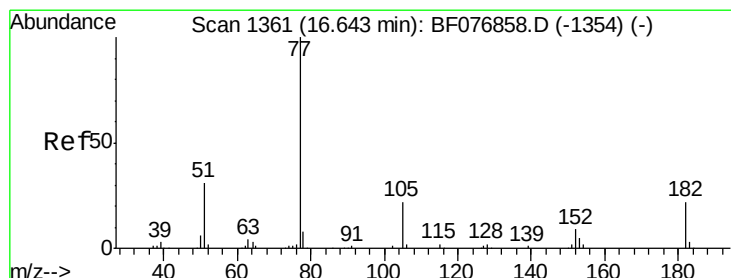
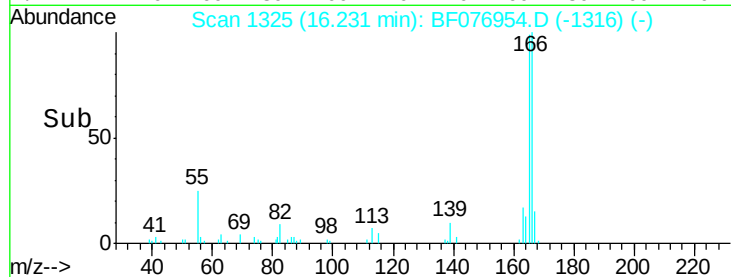
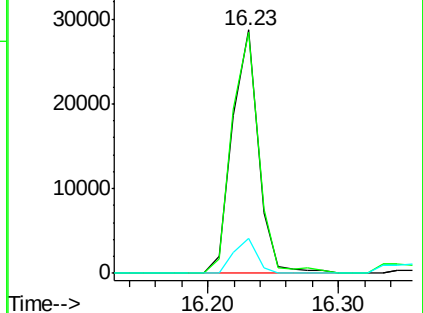
167 14.6 10.4 15.6



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



#62

Azobenzene

Concen: 5.70 ng

RT: 16.63 min Scan# 1360

Delta R.T. 0.00 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

Tgt Ion: 77 Resp: 34603

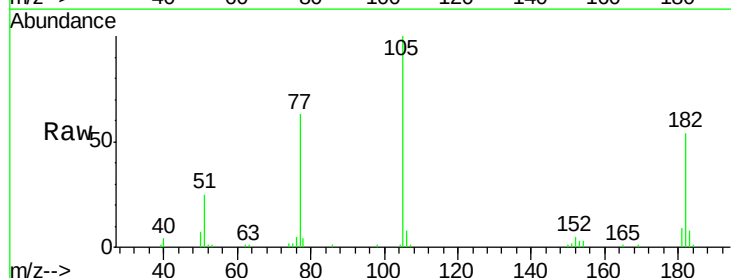
Ion Ratio Lower Upper

77 100

182 85.5 2.0 42.0#

105 158.8 2.3 42.3#

51 39.5 10.7 50.7

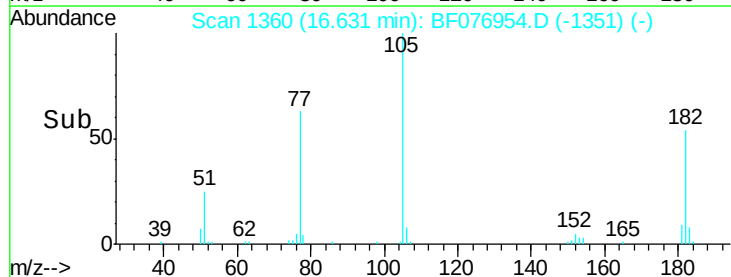
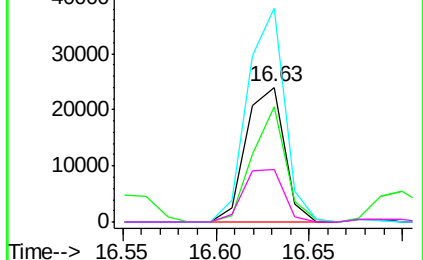


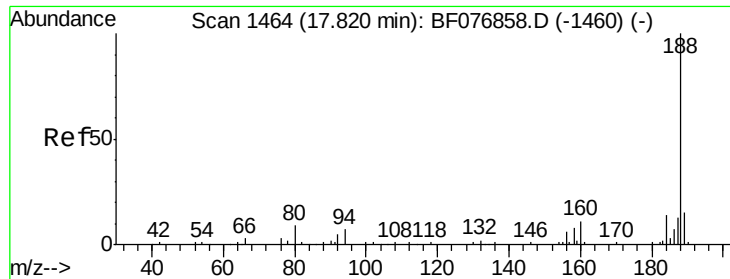
Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF0

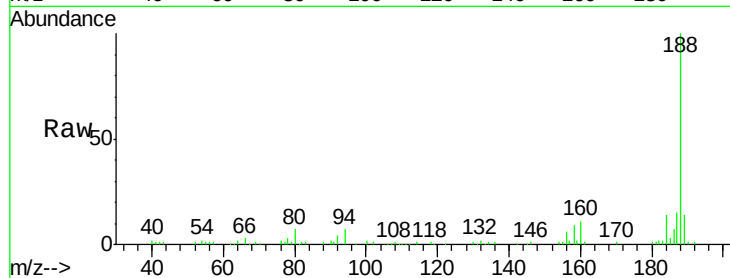




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.79 min Scan# 1461
 Delta R.T. 0.01 min
 Lab File: BF076954.D
 Acq: 20 Jan 2015 7:27

Instrument :
 BNA_F
 ClientSampleId :

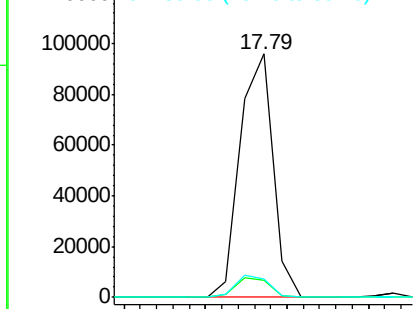
Tot Ion	188	Resp	133827
Ion	Ratio	Lower	Upper
188	100		
94	7.2	6.0	9.0
80	7.5	6.9	10.3



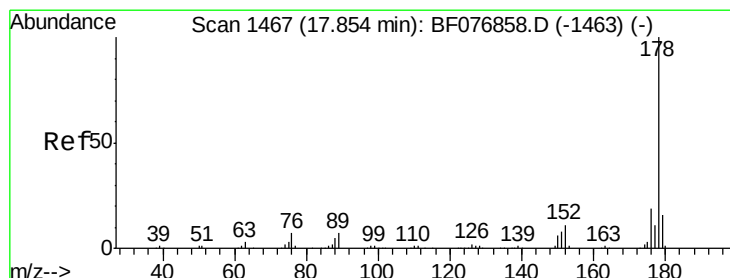
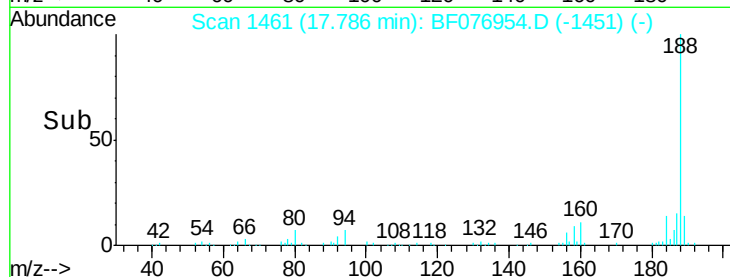
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

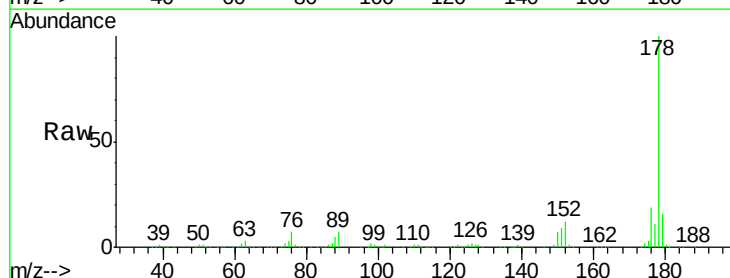


Time--> 17.70 17.75 17.80 17.85



#70
 Phenanthrene
 Concen: 74.87 ng
 RT: 17.82 min Scan# 1464
 Delta R.T. 0.01 min
 Lab File: BF076954.D
 Acq: 20 Jan 2015 7:27

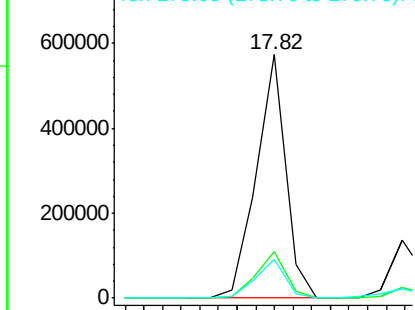
Tgt Ion	178	Resp	624864
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.1	22.7
179	15.8	12.7	19.1



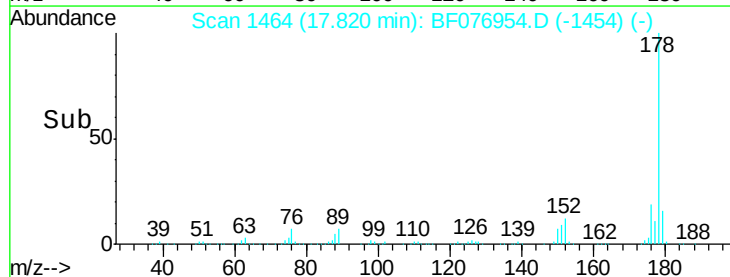
Abundance Ion 178.00 (177.70 to 178.70): E

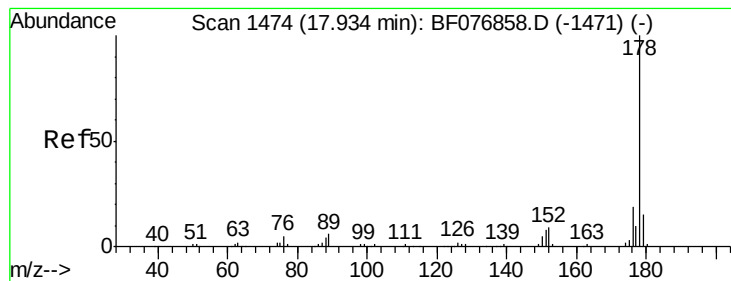
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 17.75 17.80 17.85





#71

Anthracene

Concen: 18.91 ng

RT: 17.89 min Scan# 1470

Delta R.T. 0.00 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

Instrument :

BNA_F

ClientSampleId :

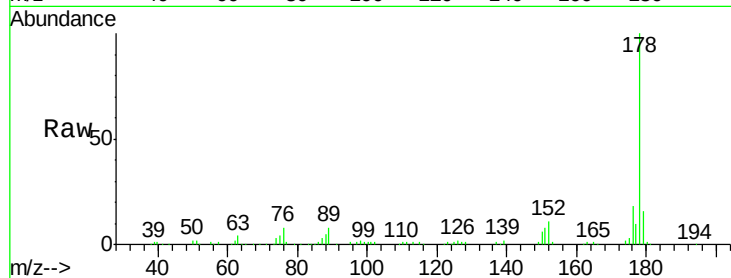
Tot Ion:178 Resp: 153892

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.0

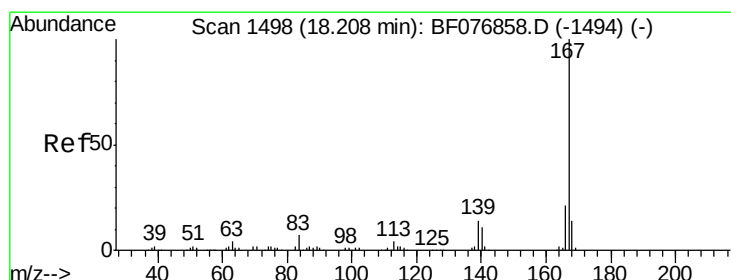
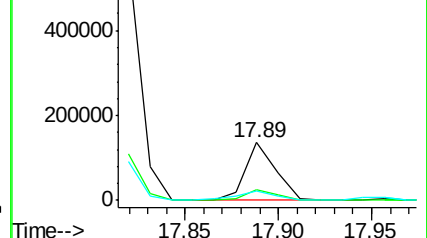
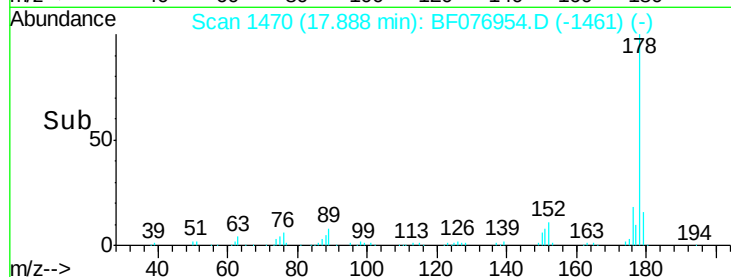
179 15.7 11.9 17.9



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: 9.96 ng

RT: 18.17 min Scan# 1495

Delta R.T. -0.01 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

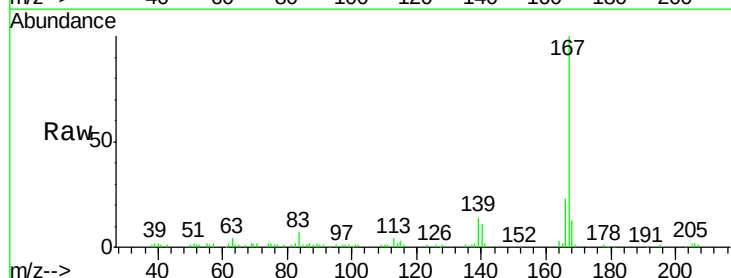
Tgt Ion:167 Resp: 78625

Ion Ratio Lower Upper

167 100

166 22.7 17.0 25.6

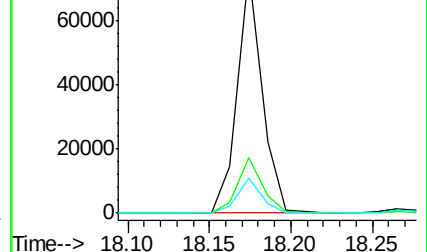
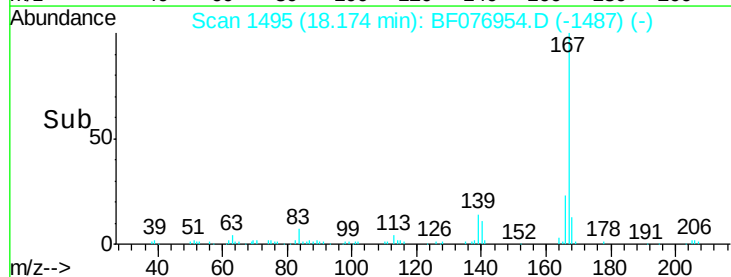
139 14.4 11.3 16.9

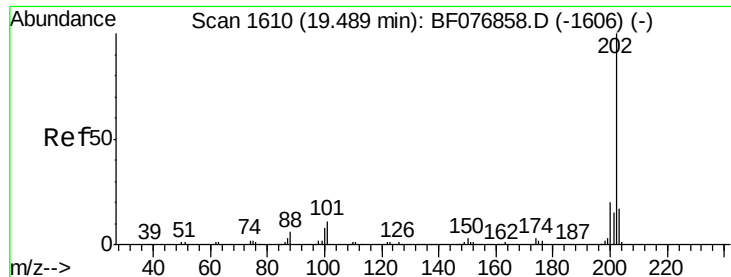


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 128.98 ng

RT: 19.47 min Scan# 1608

Delta R.T. 0.01 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

Instrument :

BNA_F

ClientSampleId :

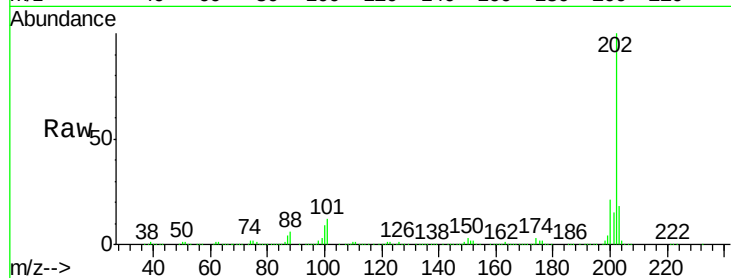
Tot Ion:202 Resp: 1102957

Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	30.7
203	18.2	0.0	36.9

202 100

101 11.9 0.0 30.7

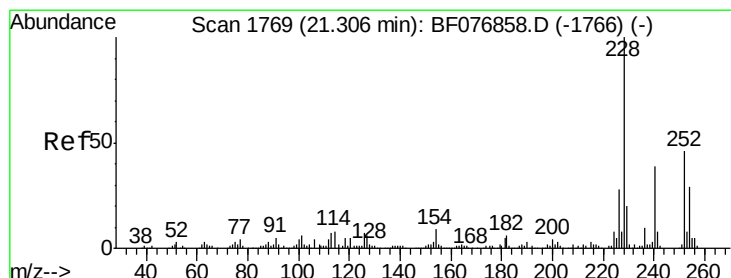
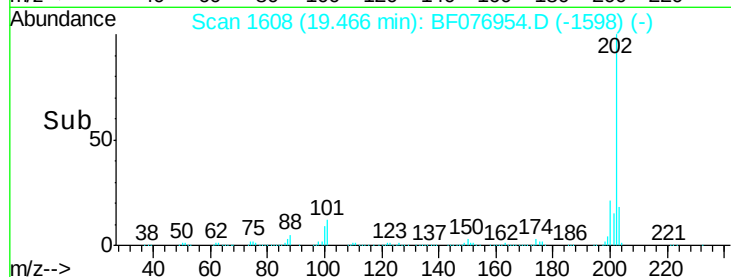
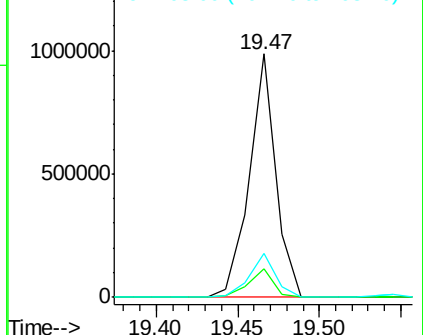
203 18.2 0.0 36.9



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: 21.28 min Scan# 1767

Delta R.T. 0.01 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

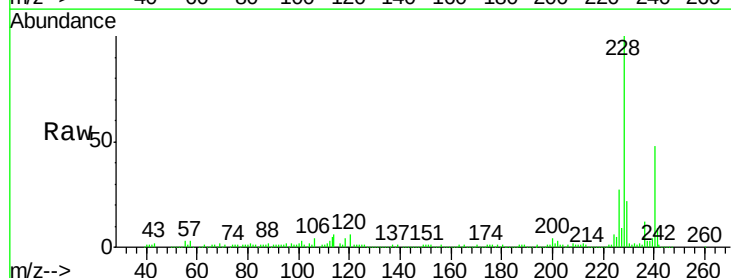
Tgt Ion:240 Resp: 129106

Ion	Ratio	Lower	Upper
240	100		
120	12.1	10.4	15.6
236	25.8	20.2	30.2

240 100

120 12.1 10.4 15.6

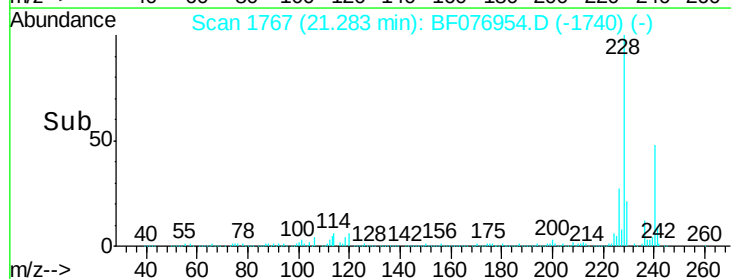
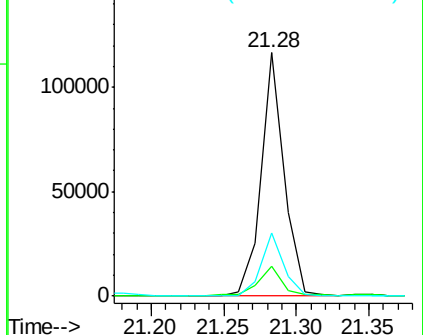
236 25.8 20.2 30.2

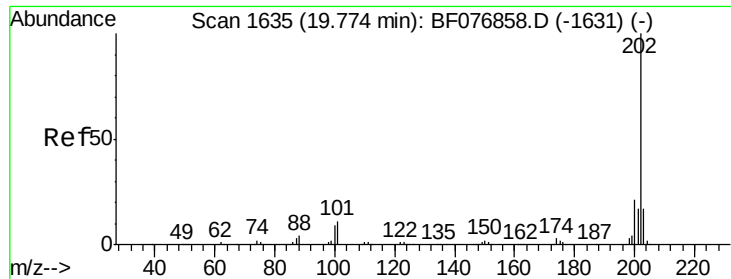


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 123.83 ng

RT: 19.75 min Scan# 1633

Delta R.T. 0.01 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

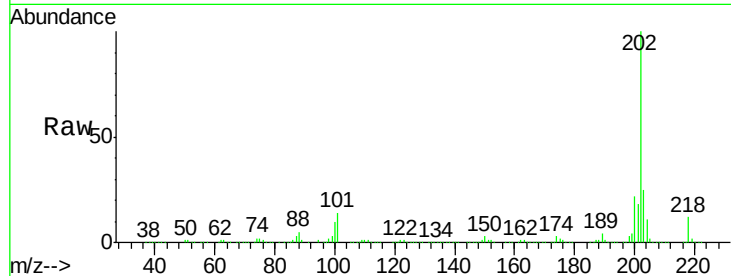
Instrument :

BNA_F

ClientSampleId :

Tot Ion:202 Resp: 1095677

Ion	Ratio	Lower	Upper
202	100		
200	22.0	16.7	25.1
203	25.0	14.0	21.0

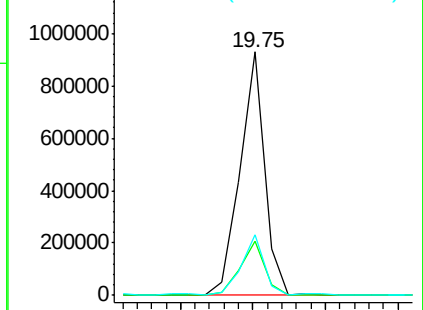


Abundance

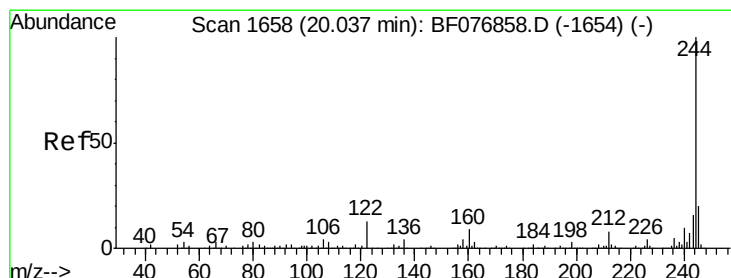
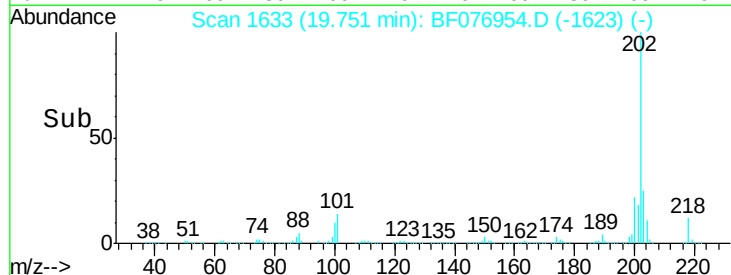
Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#78

Terphenyl-d14

Concen: 53.03 ng

RT: 20.01 min Scan# 1656

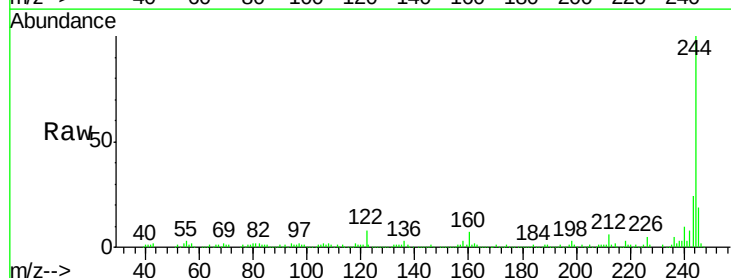
Delta R.T. 0.01 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

Tgt Ion:244 Resp: 297403

Ion	Ratio	Lower	Upper
244	100		
212	6.4	6.3	9.5
122	7.9	10.1	15.1

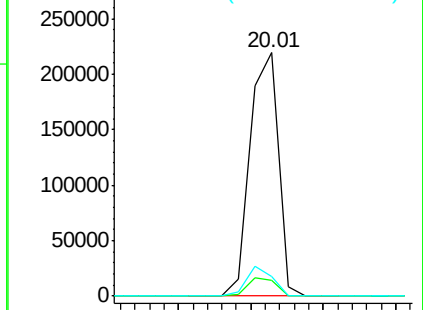


Abundance

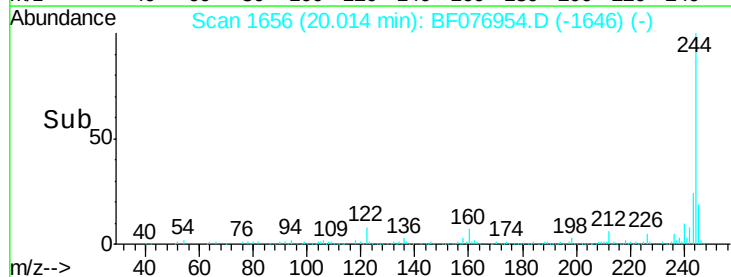
Ion 244.00 (243.70 to 244.70): E

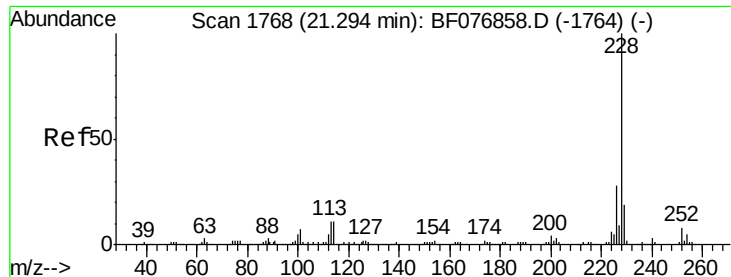
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->





#80

Benzo(a)anthracene

Concen: 77.23 ng

RT: 21.27 min Scan# 1766

Delta R.T. 0.01 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

Instrument :

BNA_F

ClientSampleId :

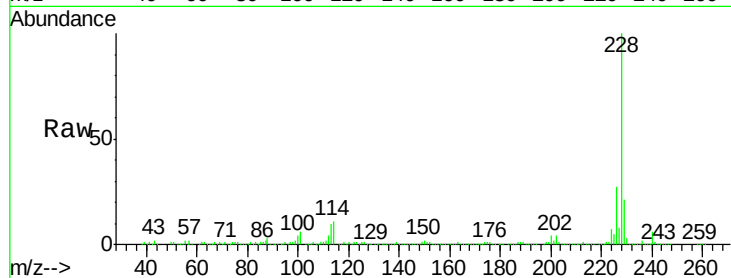
Tot Ion:228 Resp: 625595

Ion Ratio Lower Upper

228 100

226 26.7 22.1 33.1

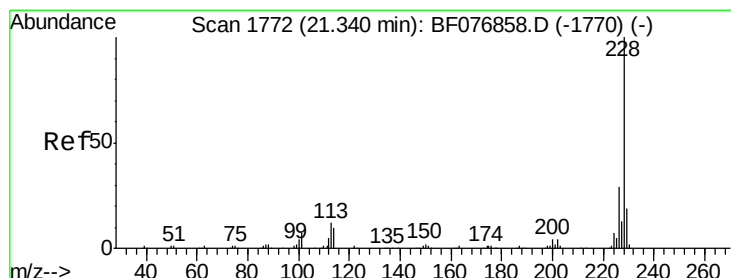
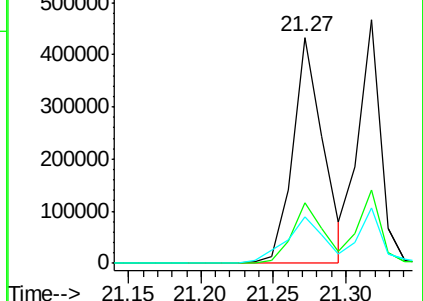
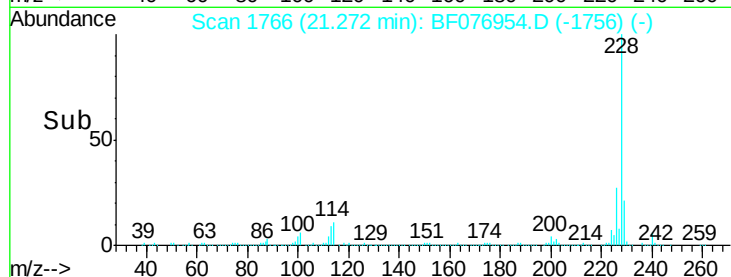
229 20.8 15.5 23.3



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: 66.94 ng

RT: 21.32 min Scan# 1770

Delta R.T. 0.01 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

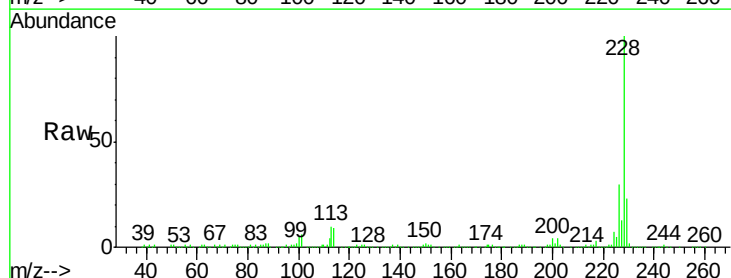
Tgt Ion:228 Resp: 494447

Ion Ratio Lower Upper

228 100

226 30.2 23.4 35.0

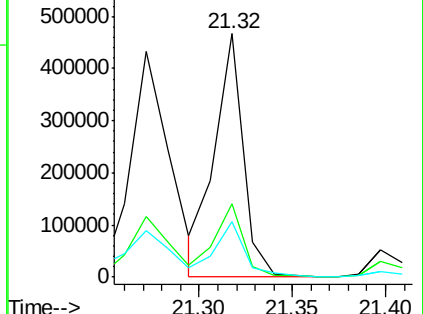
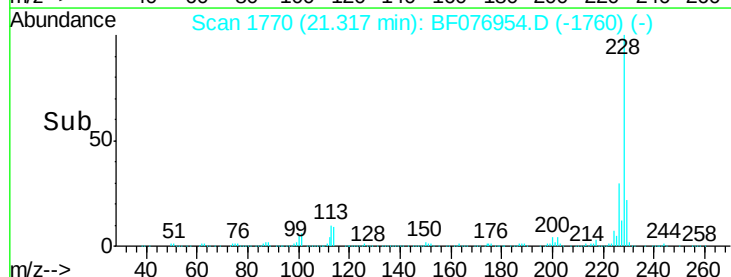
229 22.6 15.4 23.0

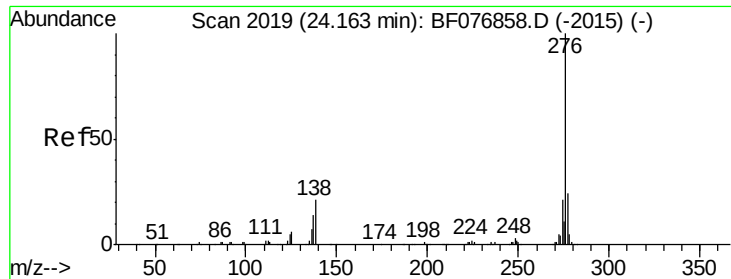


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

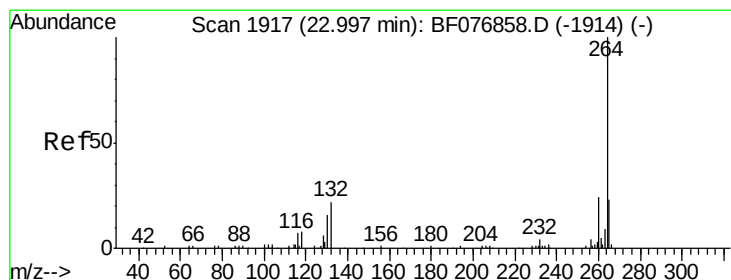
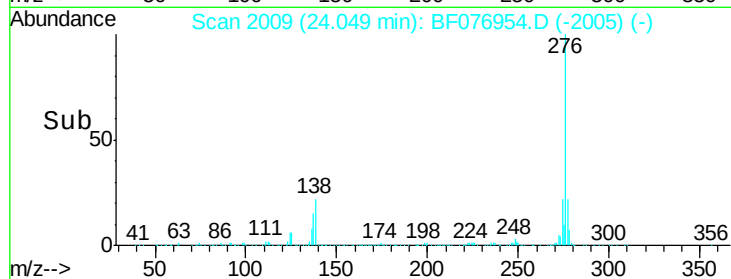
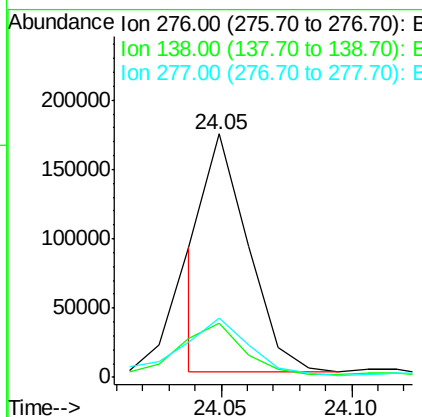
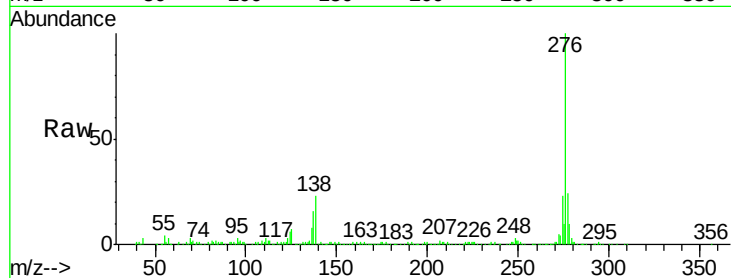




#85
Indeno(1,2,3-cd)pyrene
Concen: 24.86 ng
RT: 24.05 min Scan# 2009
Delta R.T. -0.06 min
Lab File: BF076954.D
Acq: 20 Jan 2015 7:27

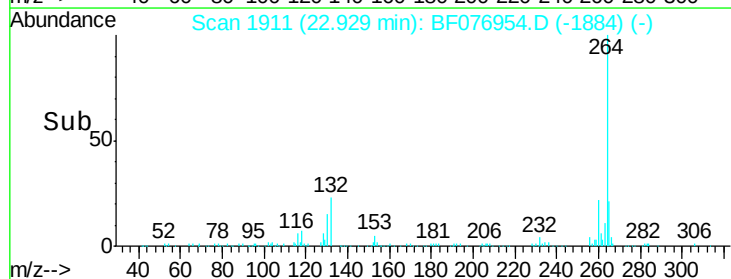
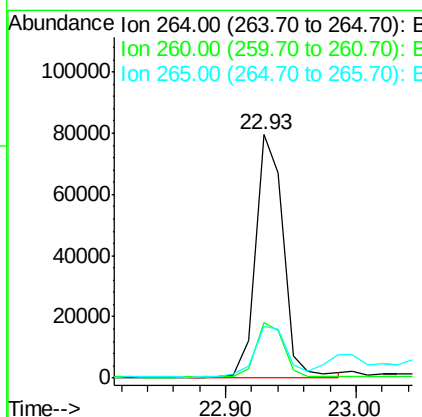
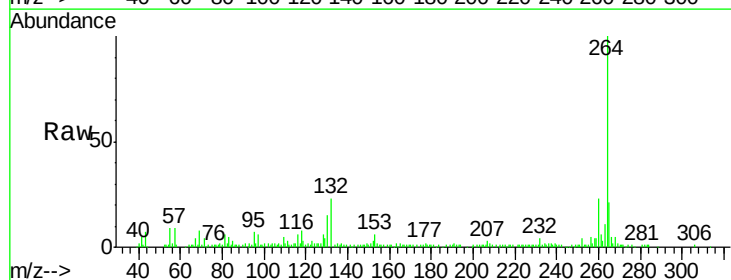
Instrument :
BNA_F
ClientSampleId :

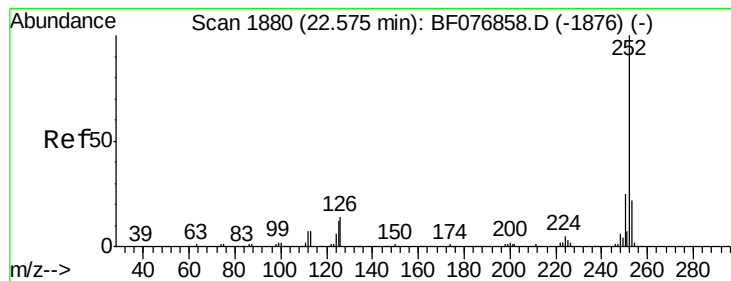
Tot Ion	Ratio	Lower	Upper
276	100		
138	0.0	14.6	22.0#
277	24.9	14.8	22.2#



#86
Perylene-d12
Concen: 20.00 ng
RT: 22.93 min Scan# 1911
Delta R.T. 0.01 min
Lab File: BF076954.D
Acq: 20 Jan 2015 7:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.0	28.4
265	21.2	18.1	27.1





#87

Benzo(b)fluoranthene

Concen: 112.82 ng

RT: 22.53 min Scan# 1876

Delta R.T. 0.02 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

Instrument :

BNA_F

ClientSampleId :

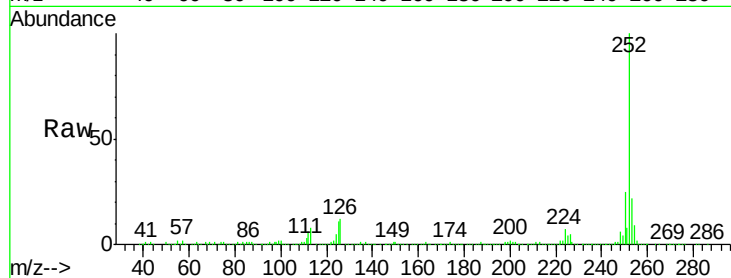
Tot Ion:252 Resp: 900098

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

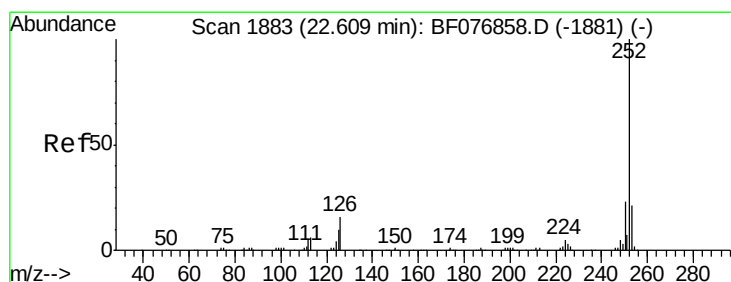
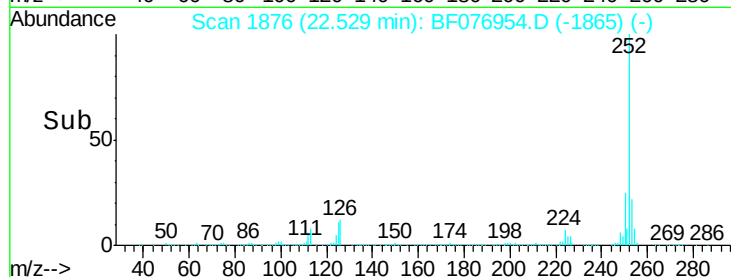
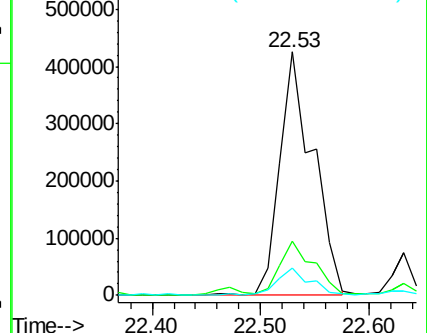
125 11.0 9.4 14.0



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



#88

Benzo(k)fluoranthene

Concen: 129.13 ng

RT: 22.53 min Scan# 1876

Delta R.T. 0.02 min

Lab File: BF076954.D

Acq: 20 Jan 2015 7:27

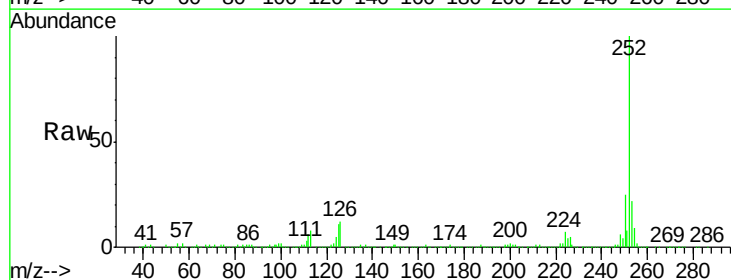
Tgt Ion:252 Resp: 900098

Ion Ratio Lower Upper

252 100

253 22.2 17.2 25.8

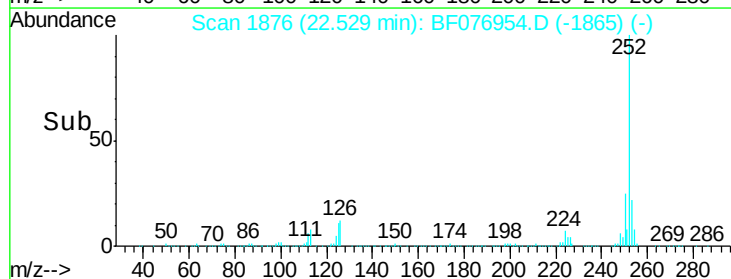
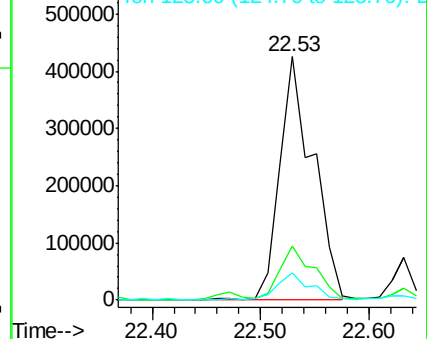
125 11.0 7.1 10.7#

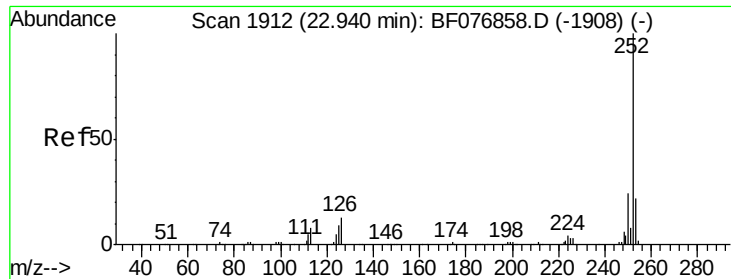


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

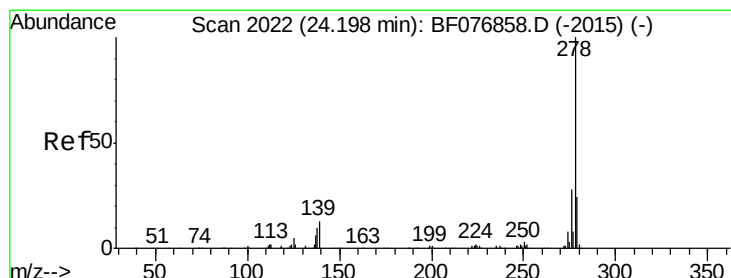
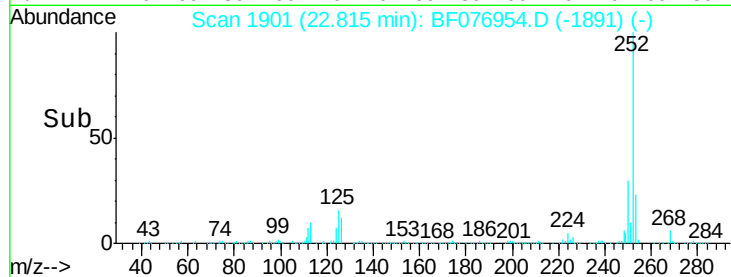
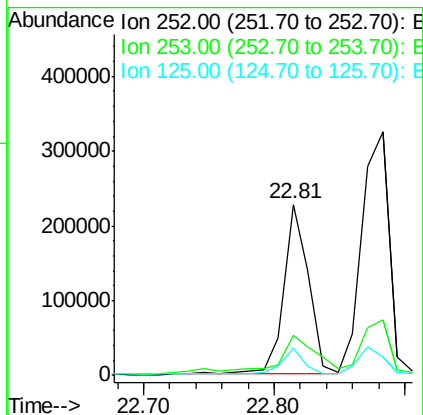
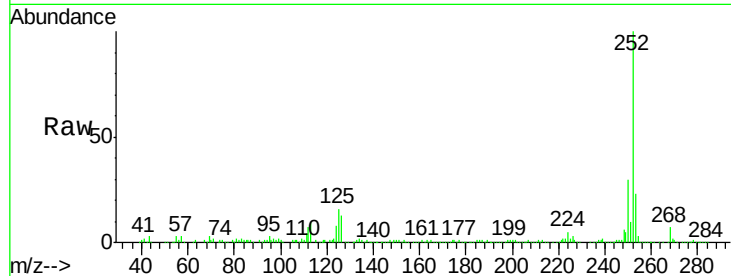




#89
Benzo(a)pyrene
Concen: 42.43 ng
RT: 22.81 min Scan# 1901
Delta R.T. 0.01 min
Lab File: BF076954.D
Acq: 20 Jan 2015 7:27

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 298607
Ion Ratio Lower Upper
252 100
253 23.4 17.9 26.9
125 16.3 7.2 10.8#



#90
Dibenzo(a,h)anthracene
Concen: 8.64 ng
RT: 24.17 min Scan# 2020
Delta R.T. 0.03 min
Lab File: BF076954.D
Acq: 20 Jan 2015 7:27

Tgt Ion:278 Resp: 55762
Ion Ratio Lower Upper
278 100
139 19.5 10.5 15.7#
279 25.2 19.3 28.9

