

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041415\  
 Data File : BF078521.D  
 Acq On : 15 Apr 2015 1:44  
 Operator : TP/IZ  
 Sample : G1823-11  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-6

Quant Time: Apr 15 02:38:59 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 15 01:10:59 2015  
 Response via : Initial Calibration

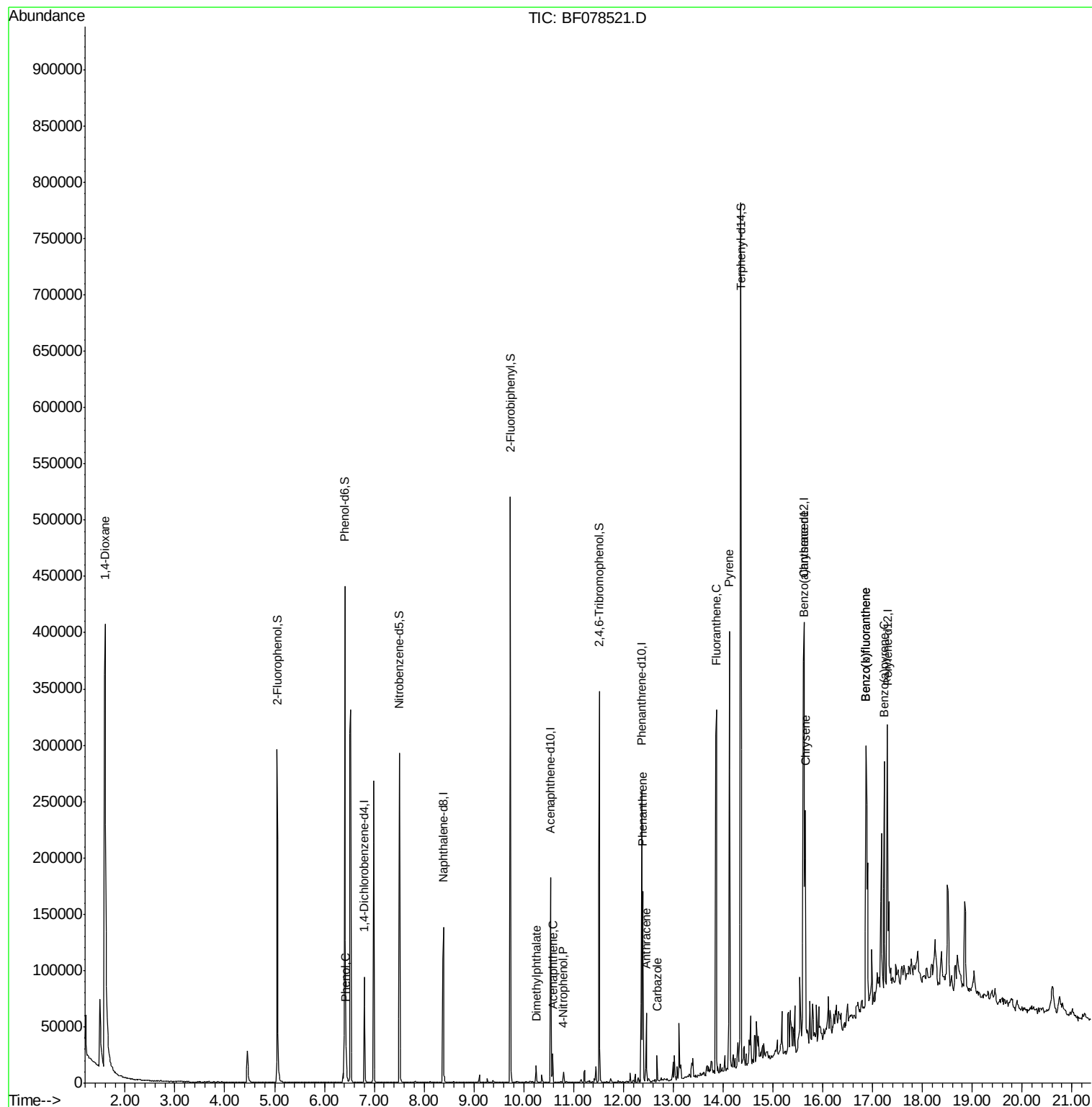
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.80  | 152  | 20039    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.39  | 136  | 91812    | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.54 | 164  | 48973    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 12.37 | 188  | 102870   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 15.62 | 240  | 121827   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12            | 17.30 | 264  | 129175   | 20.00  | ng    | -0.18    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.05  | 112  | 124265   | 102.24 | ng    | 0.00     |
| 7) Phenol-d6                | 6.41  | 99   | 168191   | 110.42 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.51  | 82   | 95013    | 62.73  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.52 | 330  | 46626    | 114.80 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.74  | 172  | 214590   | 62.63  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.35 | 244  | 280909   | 52.10  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane              | 1.60  | 88   | 20763    | 37.78  | ng    | # 23     |
| 10) Phenol                  | 6.43  | 94   | 4141     | 2.27   | ng    | 89       |
| 49) Dimethylphthalate       | 10.25 | 163  | 9830     | 2.67   | ng    | # 97     |
| 51) Acenaphthene            | 10.58 | 154  | 7078     | 2.47   | ng    | 94       |
| 55) 4-Nitrophenol           | 10.80 | 139  | 1810     | 5.52   | ng    | # 18     |
| 70) Phenanthrene            | 12.39 | 178  | 91096    | 15.31  | ng    | 98       |
| 71) Anthracene              | 12.46 | 178  | 26143    | 4.46   | ng    | 99       |
| 72) Carbazole               | 12.67 | 167  | 11605    | 2.11   | ng    | 100      |
| 74) Fluoranthene            | 13.86 | 202  | 201126   | 32.05  | ng    | 90       |
| 77) Pyrene                  | 14.13 | 202  | 185406   | 24.24  | ng    | # 92     |
| 80) Benzo(a)anthracene      | 15.61 | 228  | 119557   | 16.49  | ng    | 99       |
| 82) Chrysene                | 15.66 | 228  | 94914    | 13.94  | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 16.87 | 252  | 145095   | 18.17  | ng    | # 95     |
| 88) Benzo(k)fluoranthene    | 16.87 | 252  | 186634   | 26.31  | ng    | 97       |
| 89) Benzo(a)pyrene          | 17.23 | 252  | 89882    | 12.90  | ng    | # 95     |

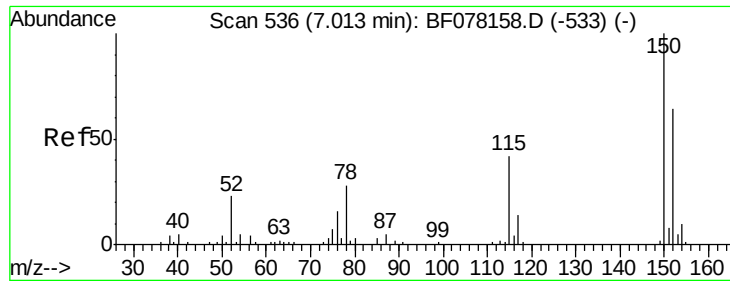
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041415\  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
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QLast Update : Wed Apr 15 01:10:59 2015  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 491

Delta R.T. -0.00 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

Instrument :

BNA\_F

ClientSampleId :

SP-6

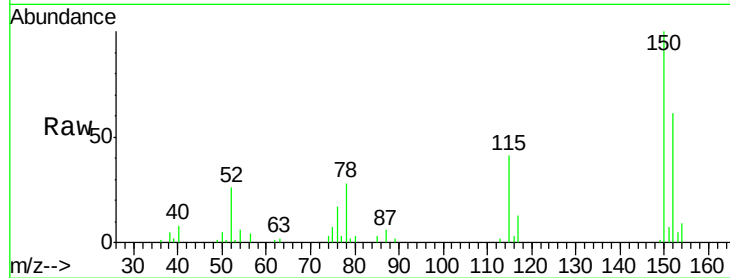
Tgt Ion:152 Resp: 20039

Ion Ratio Lower Upper

152 100

150 165.2 125.9 188.9

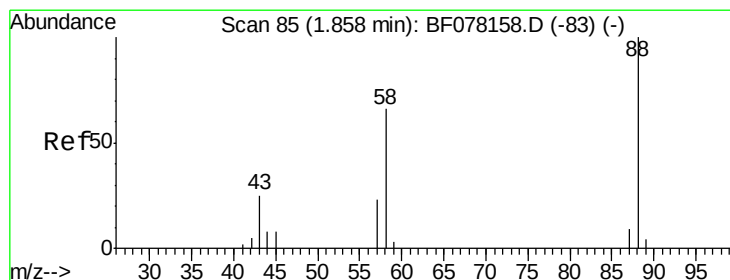
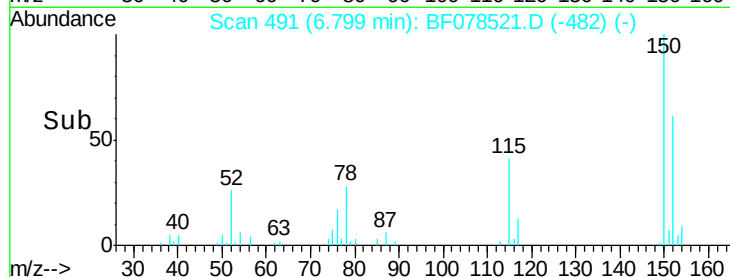
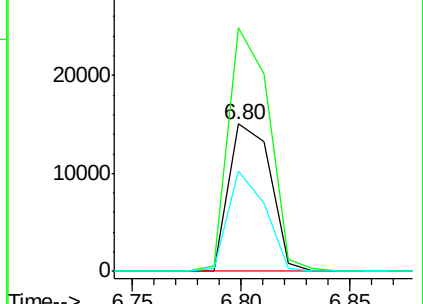
115 67.9 52.7 79.1



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



#2

1,4-Dioxane

Concen: 37.78 ng

RT: 1.60 min Scan# 36

Delta R.T. 0.01 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

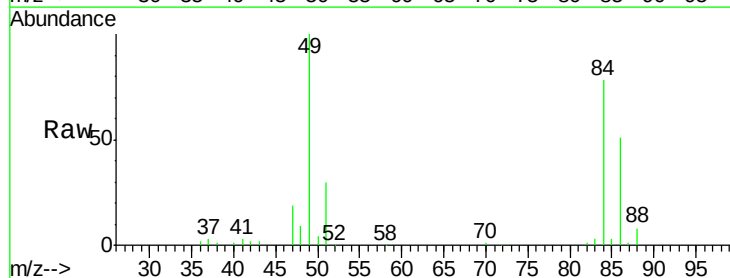
Tgt Ion: 88 Resp: 20763

Ion Ratio Lower Upper

88 100

58 0.0 56.9 85.3#

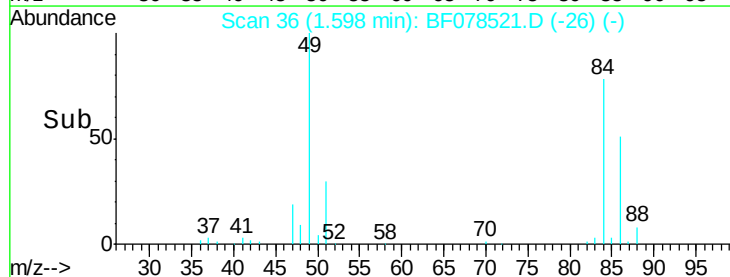
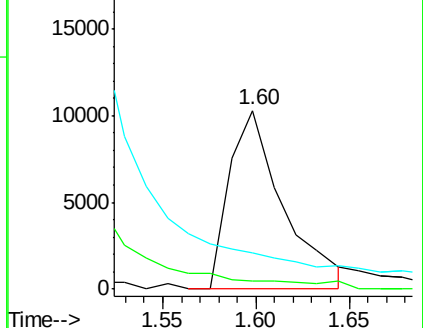
43 0.0 21.4 32.2#

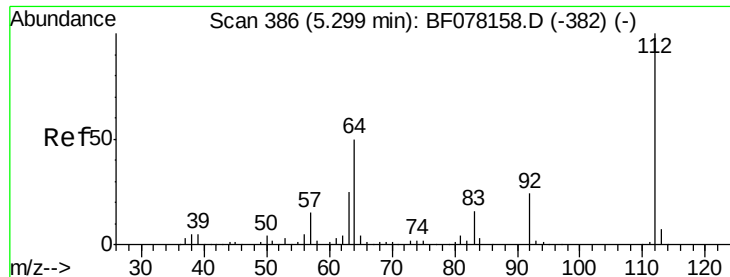


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 102.24 ng

RT: 5.05 min Scan# 338

Delta R.T. -0.00 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

Instrument :

BNA\_F

ClientSampleId :

SP-6

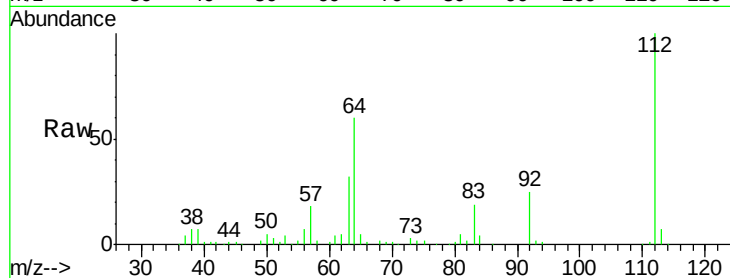
Tgt Ion: 112 Resp: 124265

Ion Ratio Lower Upper

112 100

64 60.1 39.9 59.9#

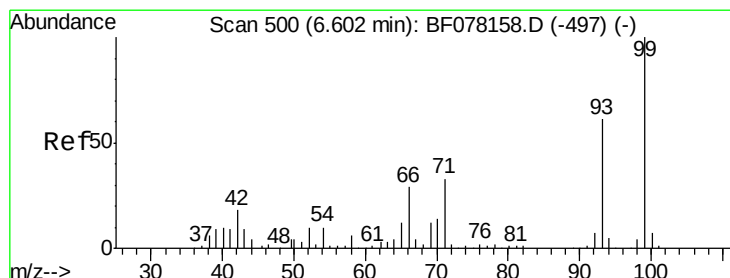
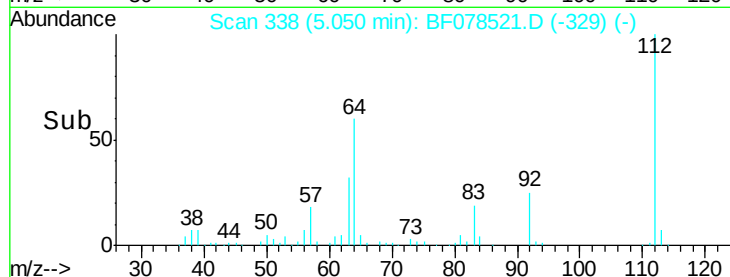
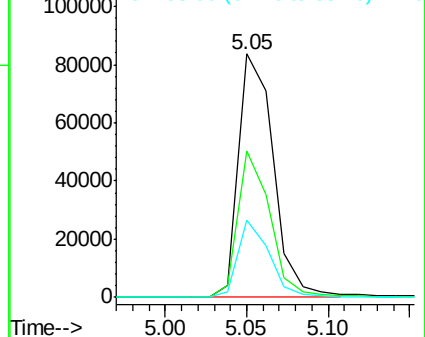
63 31.9 20.2 30.4#



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: 110.42 ng

RT: 6.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

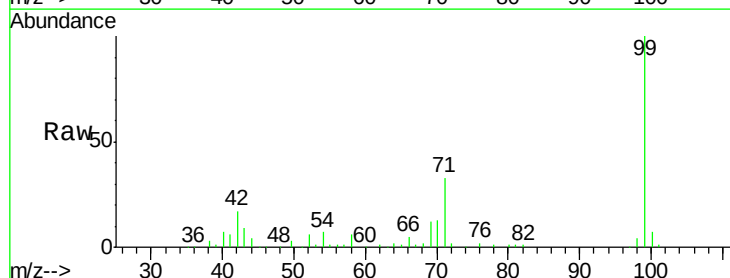
Tgt Ion: 99 Resp: 168191

Ion Ratio Lower Upper

99 100

42 17.4 14.8 22.2

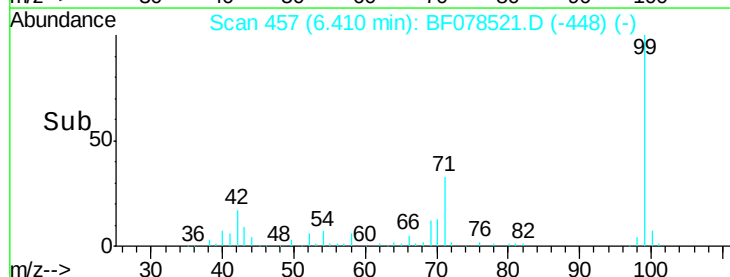
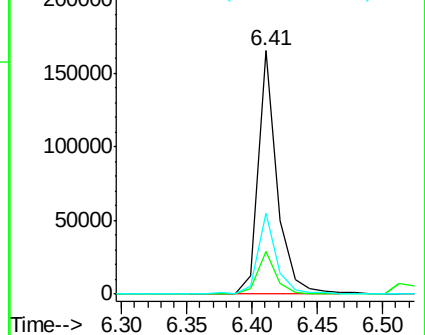
71 33.4 26.6 39.8

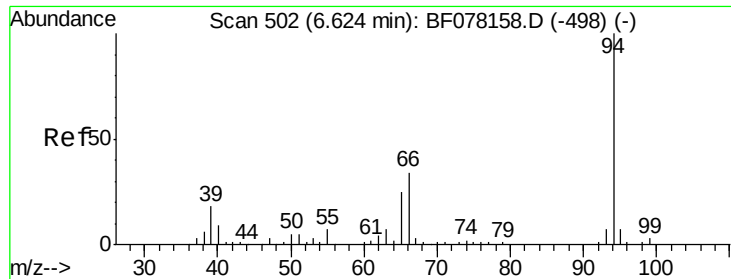


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#10

Phenol

Concen: 2.27 ng

RT: 6.43 min Scan# 459

Delta R.T. 0.01 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

Instrument :

BNA\_F

ClientSampled :

SP-6

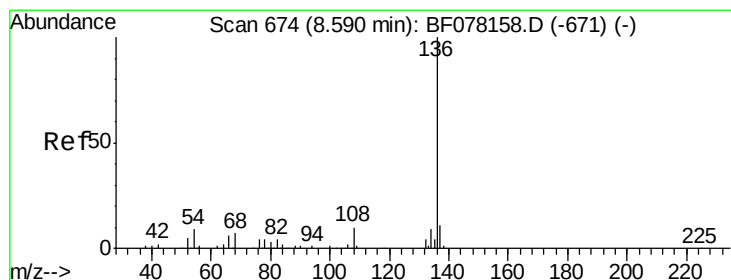
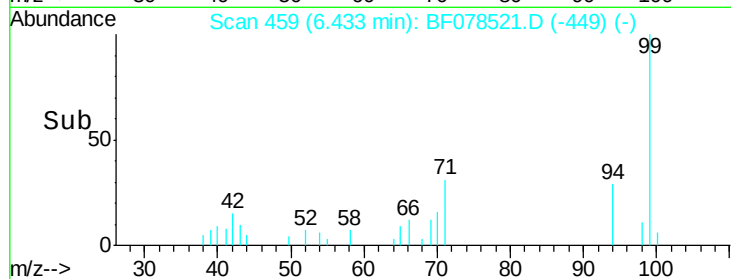
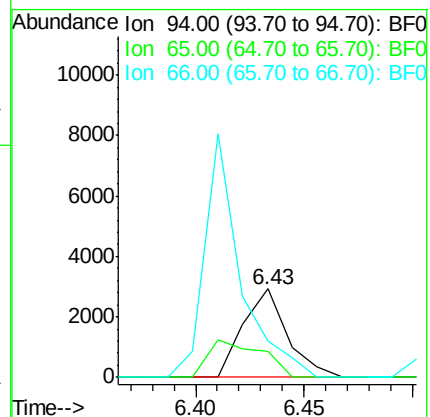
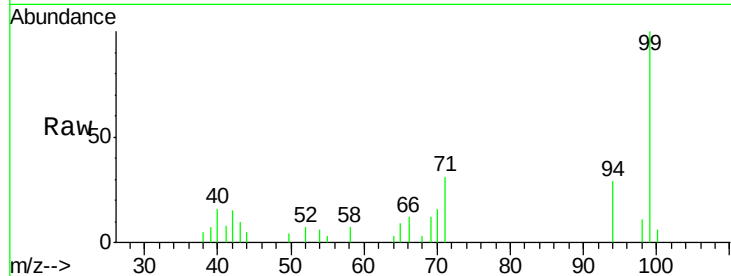
Tgt Ion: 94 Resp: 4141

Ion Ratio Lower Upper

94 100

65 29.9 4.9 44.9

66 40.4 13.8 53.8



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.39 min Scan# 630

Delta R.T. -0.00 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

Tgt Ion: 136 Resp: 91812

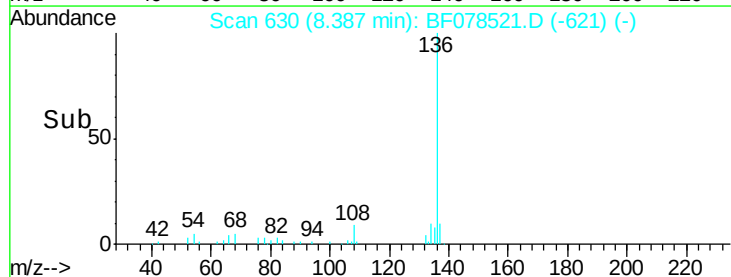
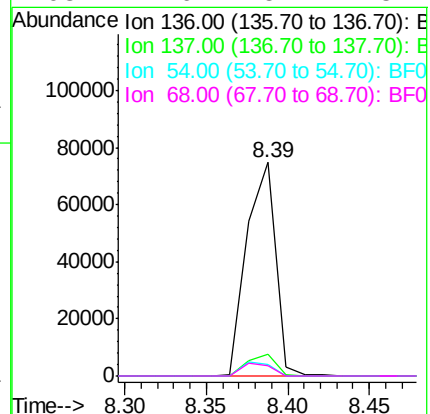
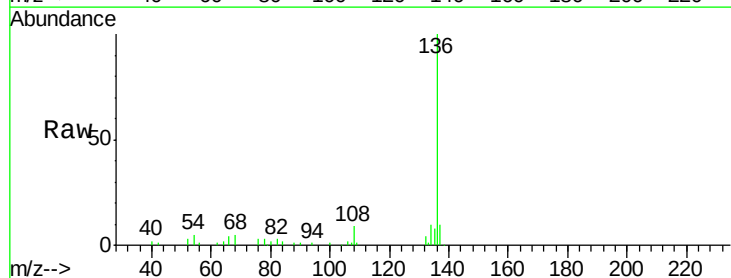
Ion Ratio Lower Upper

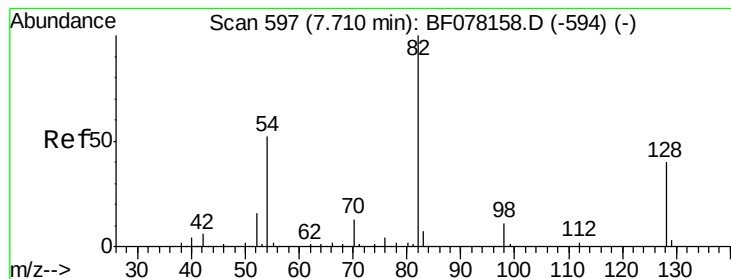
136 100

137 10.1 9.0 13.4

54 5.4 7.0 10.6#

68 4.6 5.4 8.2#





#23

Nitrobenzene-d5

Concen: 62.73 ng

RT: 7.51 min Scan# 553

Delta R.T. -0.00 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

Instrument :

BNA\_F

ClientSampleId :

SP-6

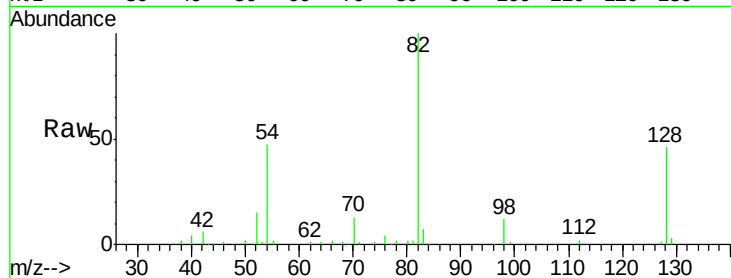
Tgt Ion: 82 Resp: 95013

Ion Ratio Lower Upper

82 100

128 46.2 31.8 47.8

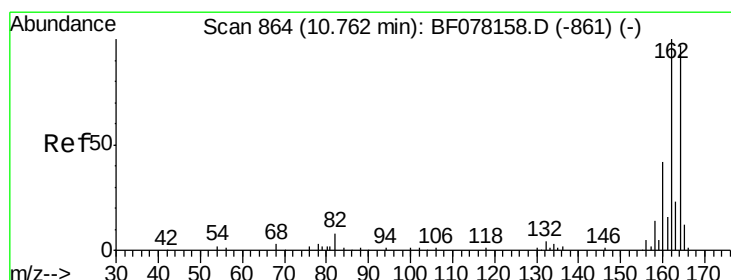
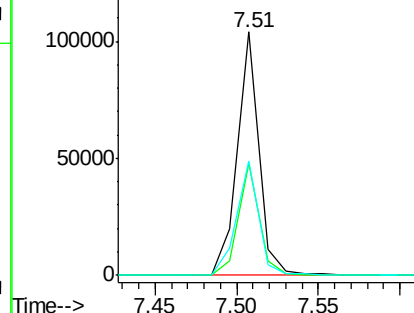
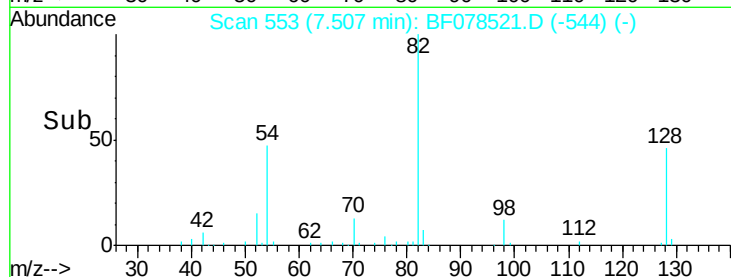
54 47.0 41.5 62.3



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.54 min Scan# 818

Delta R.T. -0.00 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

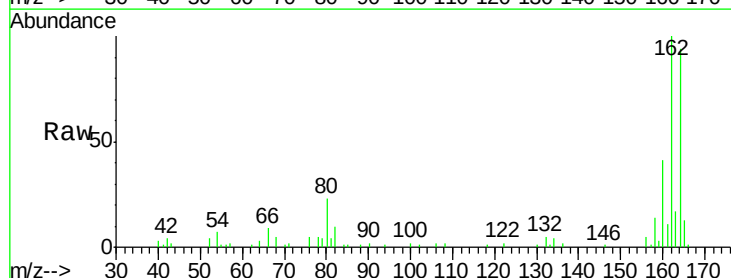
Tgt Ion: 164 Resp: 48973

Ion Ratio Lower Upper

164 100

162 106.1 82.2 123.2

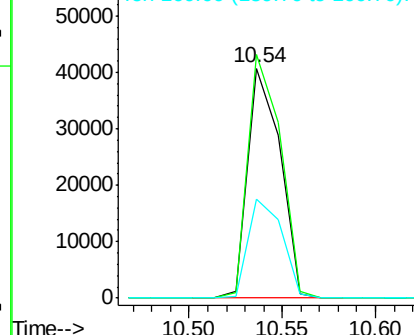
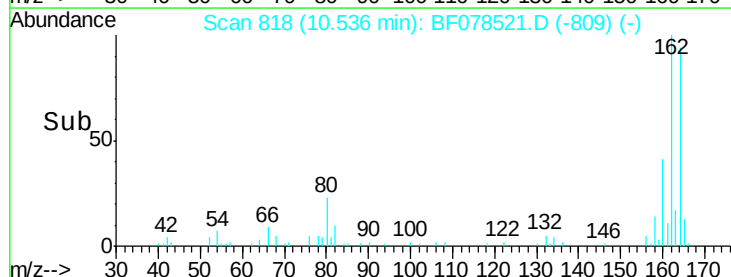
160 43.1 34.7 52.1

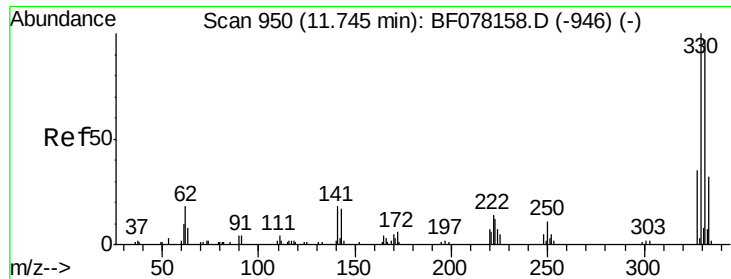


Abundance Ion 164.00 (163.70 to 164.70): BF0

Ion 162.00 (161.70 to 162.70): BF0

Ion 160.00 (159.70 to 160.70): BF0

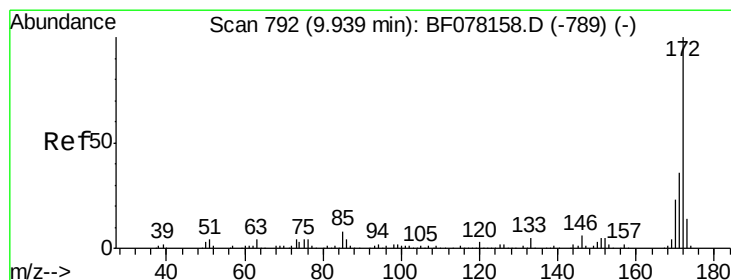
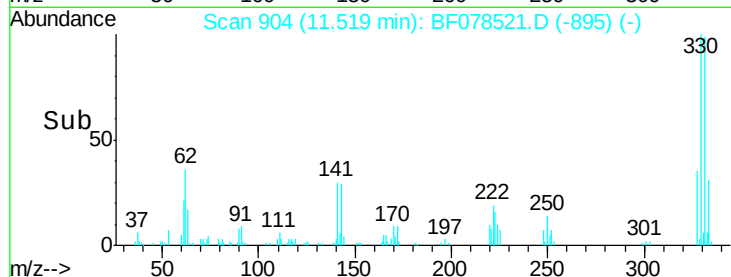
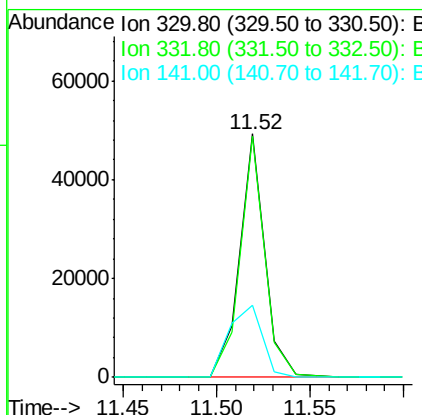
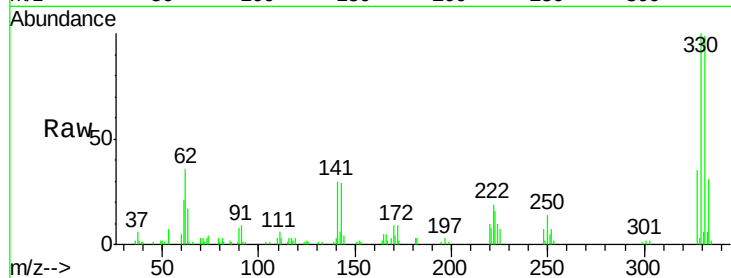




#41  
 2,4,6-Tribromophenol  
 Concen: 114.80 ng  
 RT: 11.52 min Scan# 904  
 Delta R.T. -0.00 min  
 Lab File: BF078521.D  
 Acq: 15 Apr 2015 1:44

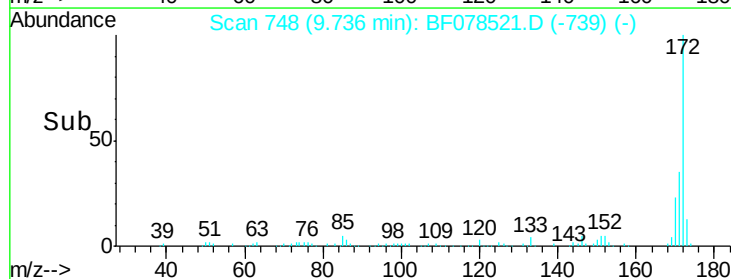
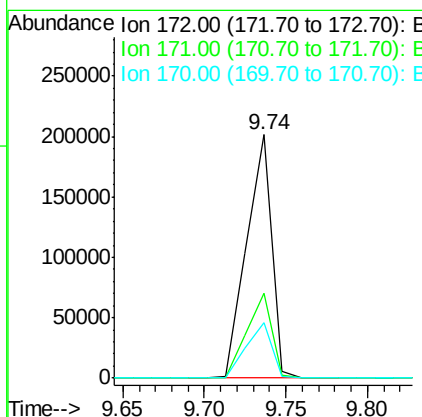
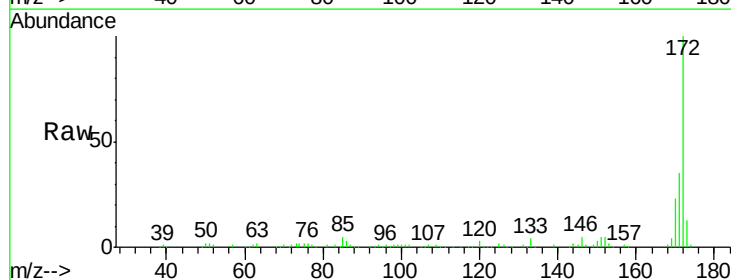
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-6

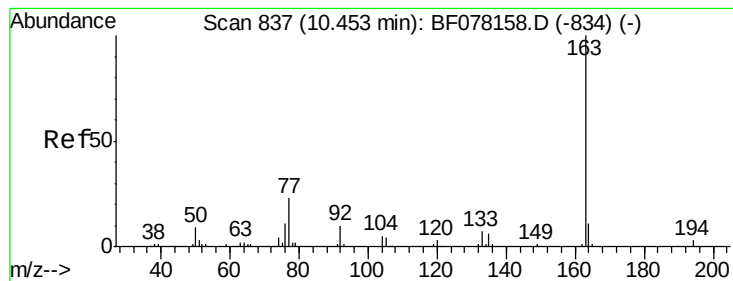
Tgt Ion:330 Resp: 46626  
 Ion Ratio Lower Upper  
 330 100  
 332 97.1 78.6 117.8  
 141 39.2 31.2 46.8



#44  
 2-Fluorobiphenyl  
 Concen: 62.63 ng  
 RT: 9.74 min Scan# 748  
 Delta R.T. -0.00 min  
 Lab File: BF078521.D  
 Acq: 15 Apr 2015 1:44

Tgt Ion:172 Resp: 214590  
 Ion Ratio Lower Upper  
 172 100  
 171 34.9 28.6 42.8  
 170 22.9 18.5 27.7





#49

Dimethylphthalate

Concen: 2.67 ng

RT: 10.25 min Scan# 793

Delta R.T. -0.00 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

Instrument :

BNA\_F

ClientSampleId :

SP-6

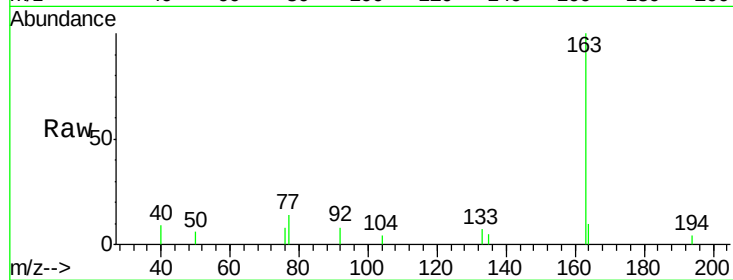
Tgt Ion:163 Resp: 9830

Ion Ratio Lower Upper

163 100

194 3.9 2.3 3.5#

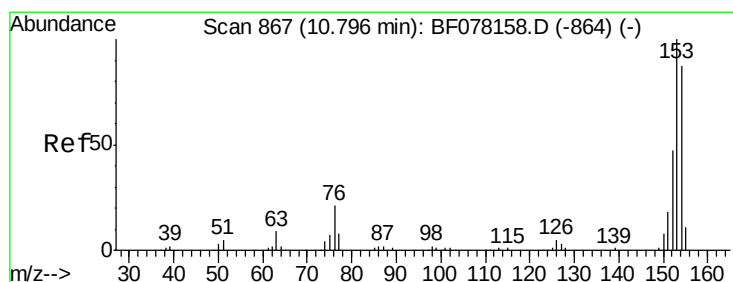
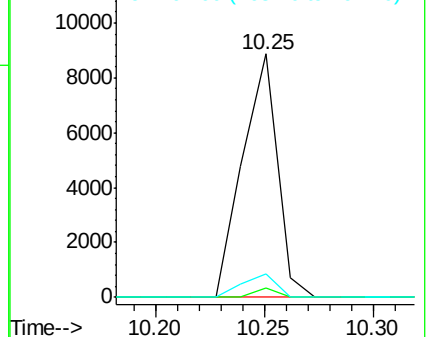
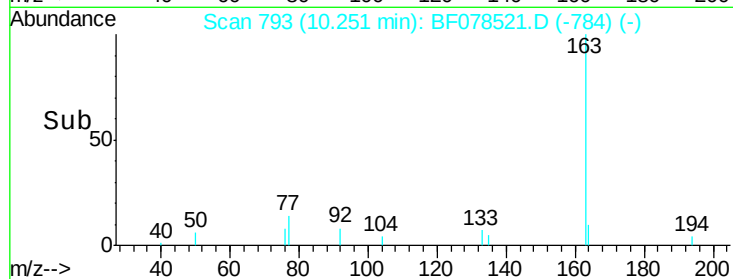
164 9.8 8.6 13.0



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: 2.47 ng

RT: 10.58 min Scan# 822

Delta R.T. -0.00 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

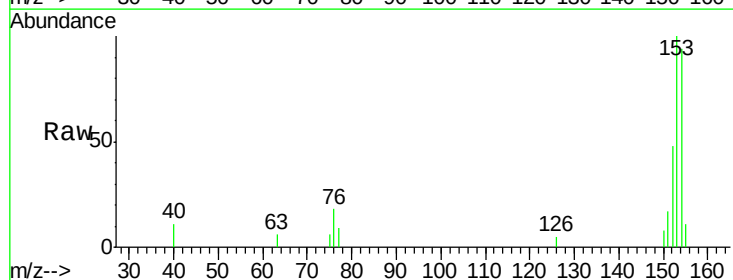
Tgt Ion:154 Resp: 7078

Ion Ratio Lower Upper

154 100

153 106.4 91.4 137.2

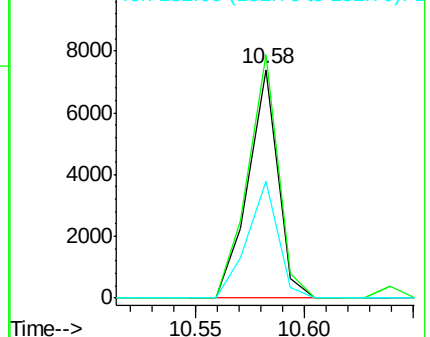
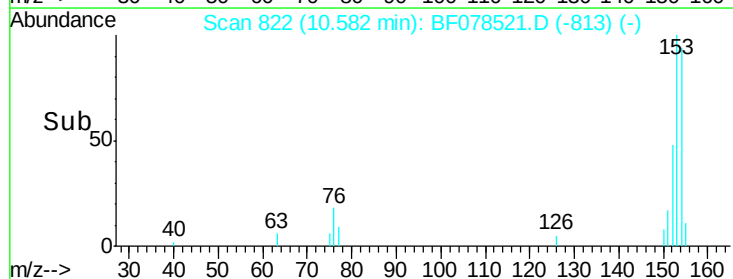
152 50.9 43.0 64.6



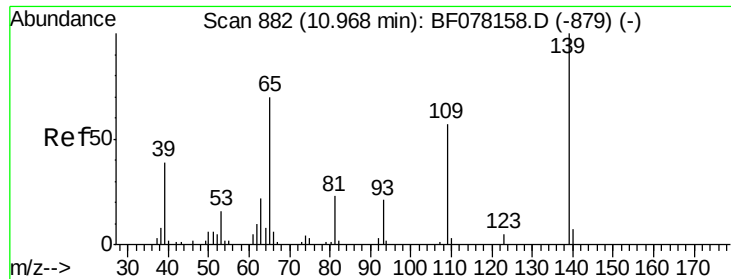
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



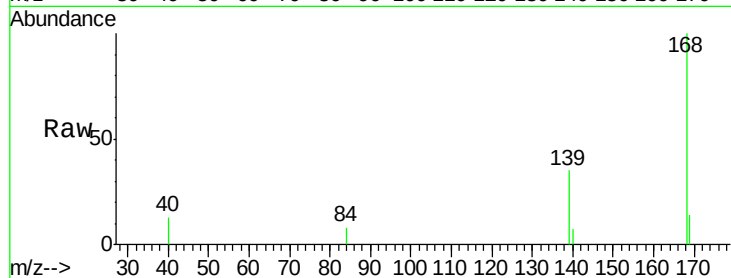




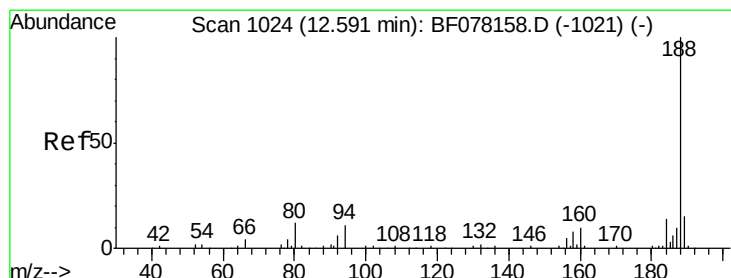
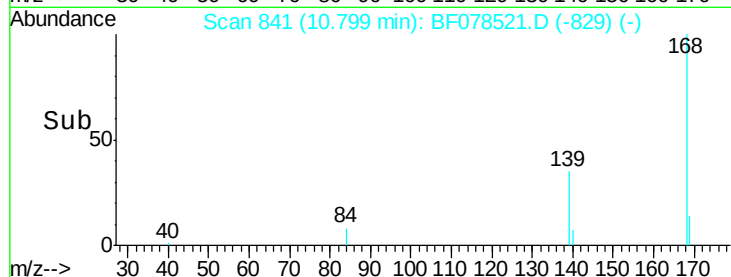
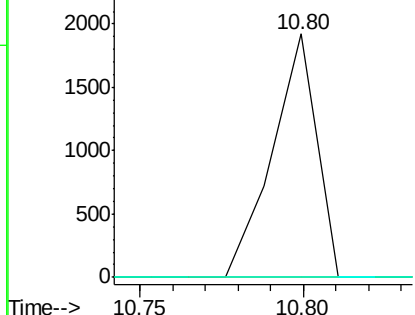
#55  
4-Nitrophenol  
Concen: 5.52 ng  
RT: 10.80 min Scan# 841  
Delta R.T. 0.03 min  
Lab File: BF078521.D  
Acq: 15 Apr 2015 1:44

Instrument :  
BNA\_F  
ClientSampleId :  
SP-6

Tgt Ion:139 Resp: 1810  
Ion Ratio Lower Upper  
139 100  
109 0.0 36.7 76.7#  
65 0.0 49.9 89.9#

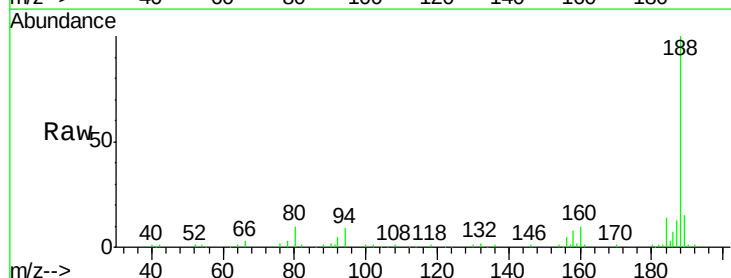


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF0

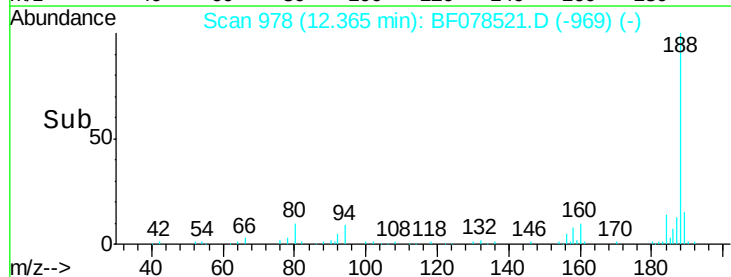
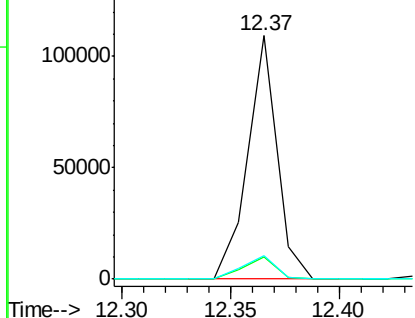


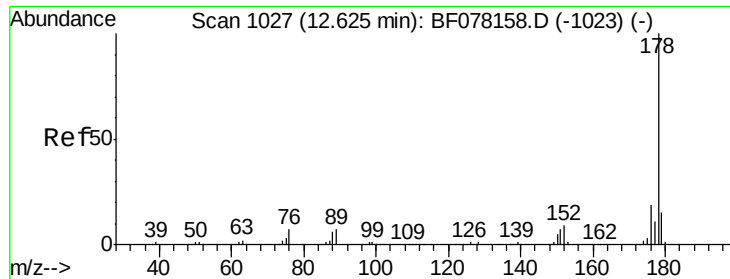
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.37 min Scan# 978  
Delta R.T. -0.00 min  
Lab File: BF078521.D  
Acq: 15 Apr 2015 1:44

Tgt Ion:188 Resp: 102870  
Ion Ratio Lower Upper  
188 100  
94 9.0 9.0 13.4  
80 9.7 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

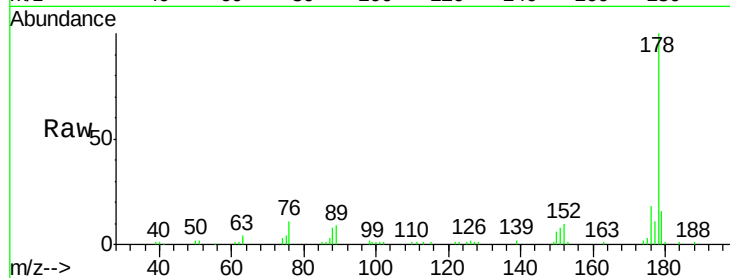




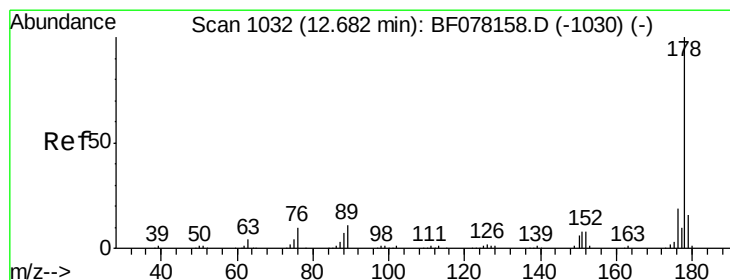
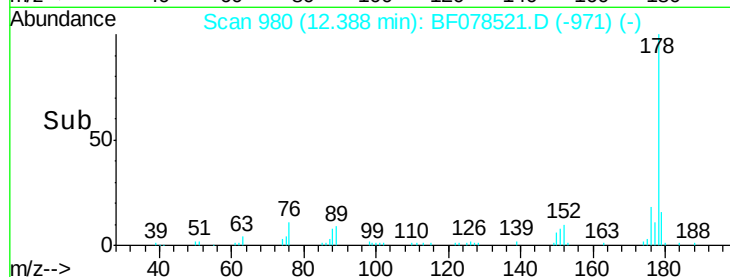
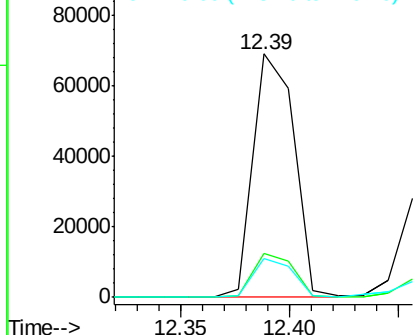
#70  
 Phenanthrene  
 Concen: 15.31 ng  
 RT: 12.39 min Scan# 980  
 Delta R.T. -0.00 min  
 Lab File: BF078521.D  
 Acq: 15 Apr 2015 1:44

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-6

Tgt Ion:178 Resp: 91096  
 Ion Ratio Lower Upper  
 178 100  
 176 18.3 15.4 23.0  
 179 16.0 12.2 18.2

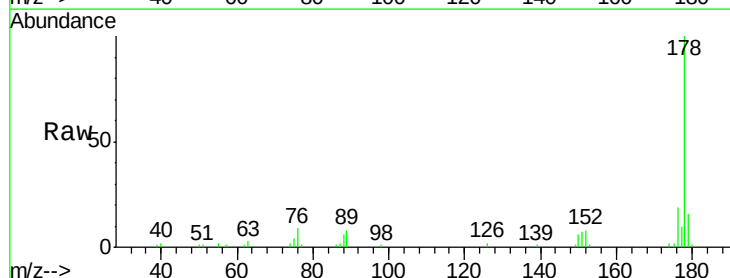


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

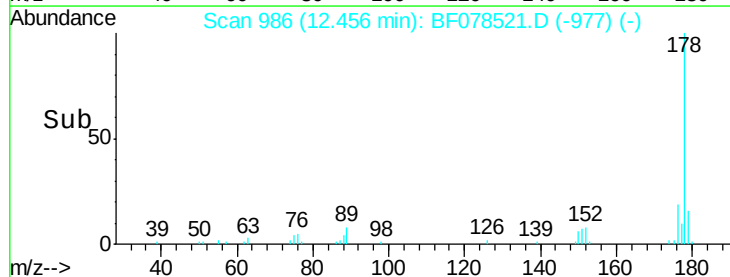
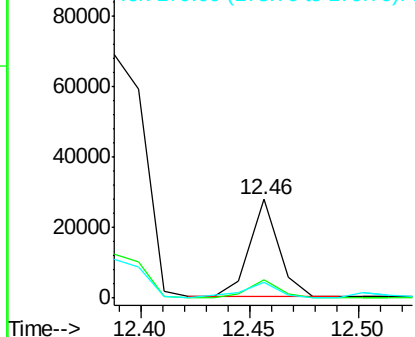


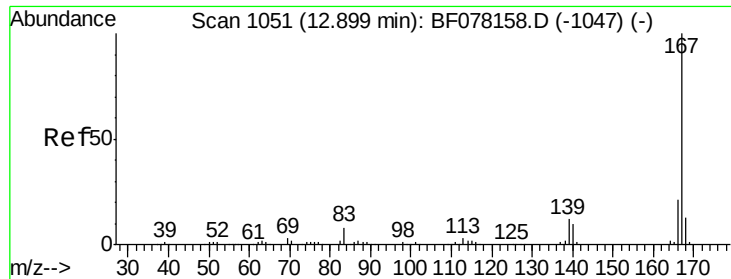
#71  
 Anthracene  
 Concen: 4.46 ng  
 RT: 12.46 min Scan# 986  
 Delta R.T. -0.00 min  
 Lab File: BF078521.D  
 Acq: 15 Apr 2015 1:44

Tgt Ion:178 Resp: 26143  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 14.8 22.2  
 179 16.0 12.4 18.6



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





#72

Carbazole

Concen: 2.11 ng

RT: 12.67 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

Instrument :

BNA\_F

ClientSampleId :

SP-6

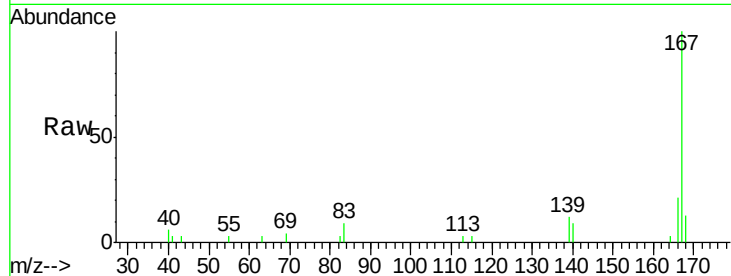
Tgt Ion:167 Resp: 11605

Ion Ratio Lower Upper

167 100

166 20.9 16.8 25.2

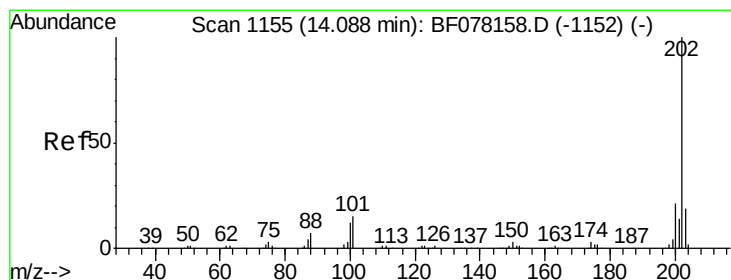
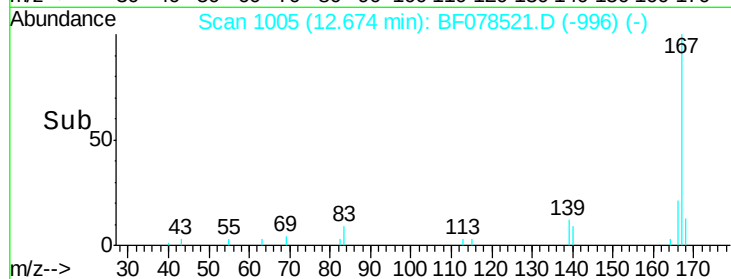
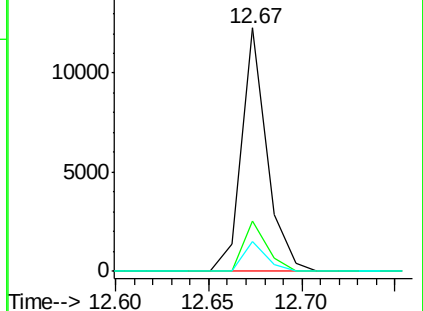
139 12.3 10.0 15.0



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: 32.05 ng

RT: 13.86 min Scan# 1109

Delta R.T. 0.01 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

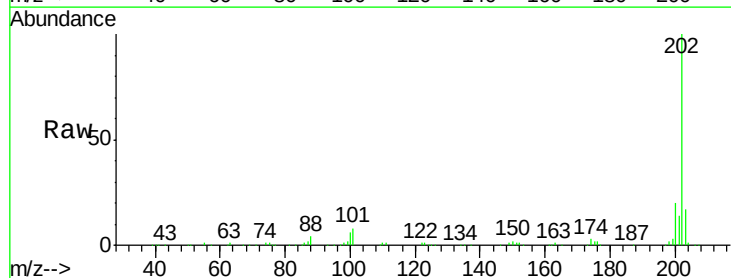
Tgt Ion:202 Resp: 201126

Ion Ratio Lower Upper

202 100

101 8.0 0.0 35.2

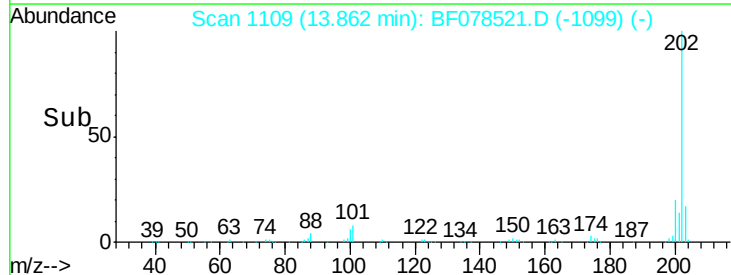
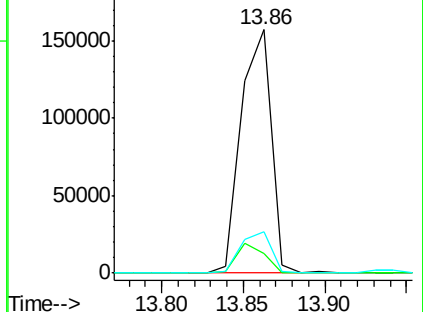
203 17.0 0.0 38.5

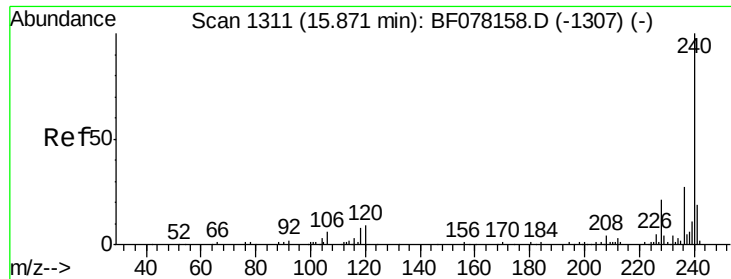


Abundance Ion 202.00 (201.70 to 202.70): E

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: 15.62 min Scan# 1263

Delta R.T. -0.03 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

Instrument :

BNA\_F

ClientSampleId :

SP-6

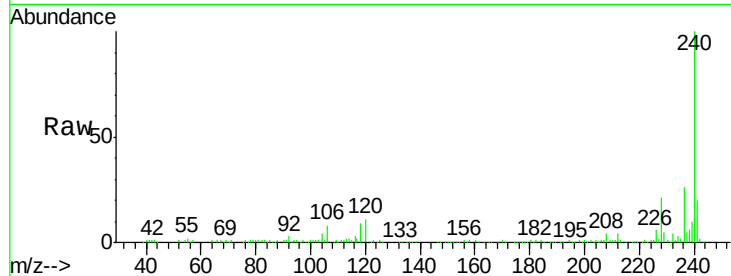
Tgt Ion:240 Resp: 121827

Ion Ratio Lower Upper

240 100

120 10.9 7.1 10.7#

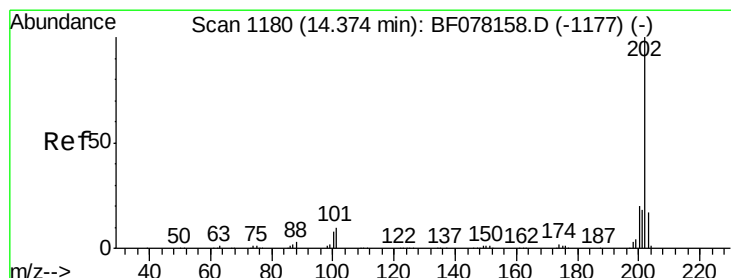
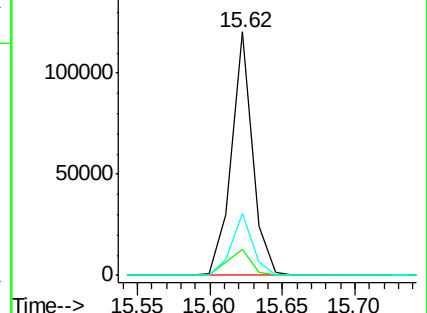
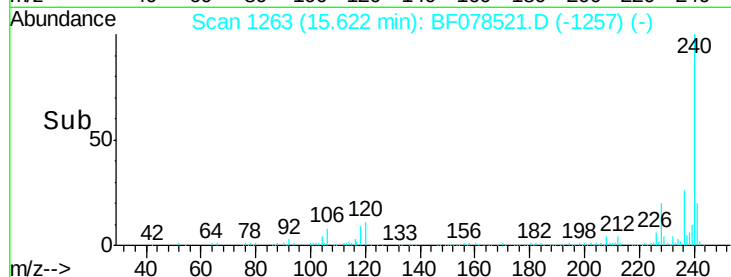
236 25.6 21.4 32.2



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

Pyrene

Concen: 24.24 ng

RT: 14.13 min Scan# 1132

Delta R.T. -0.00 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

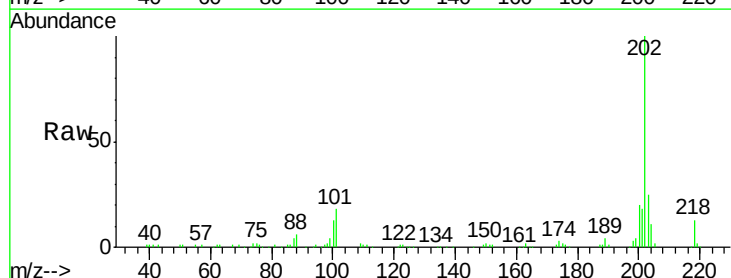
Tgt Ion:202 Resp: 185406

Ion Ratio Lower Upper

202 100

200 20.5 16.3 24.5

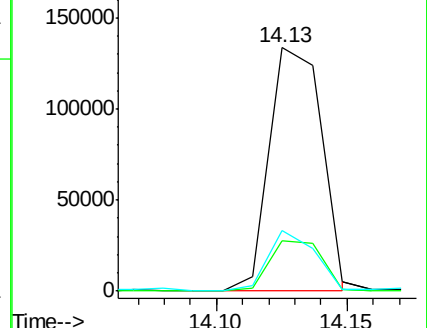
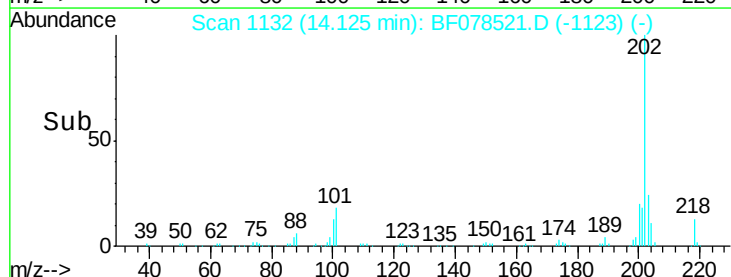
203 25.0 13.8 20.6#

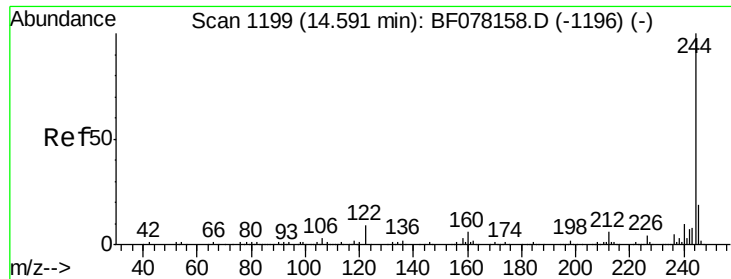


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

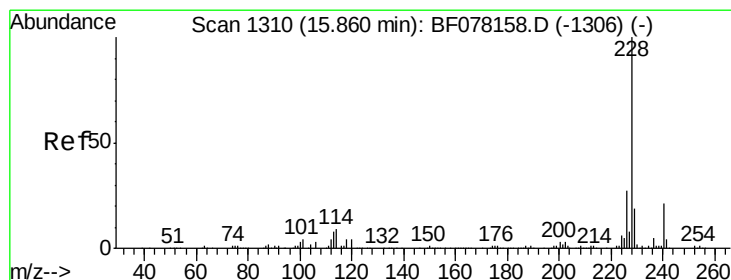
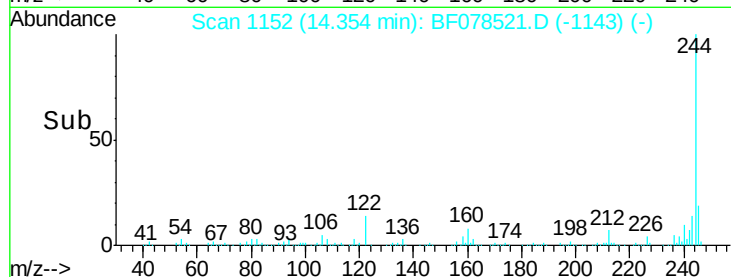
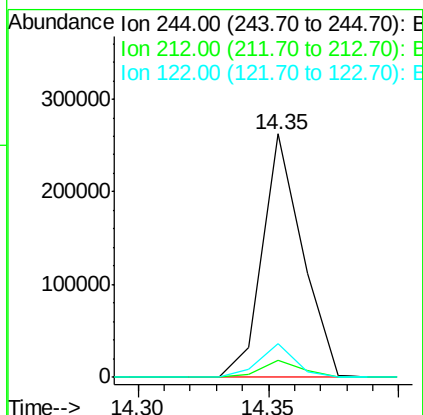
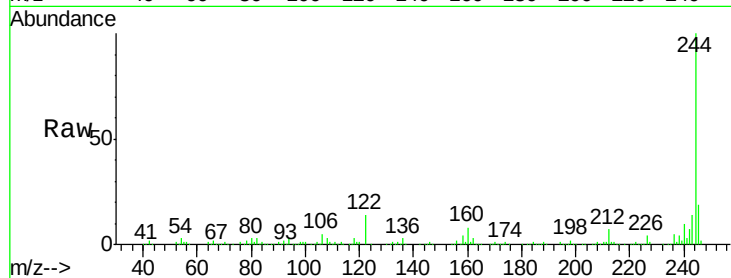




#78  
 Terphenyl-d14  
 Concen: 52.10 ng  
 RT: 14.35 min Scan# 1152  
 Delta R.T. -0.00 min  
 Lab File: BF078521.D  
 Acq: 15 Apr 2015 1:44

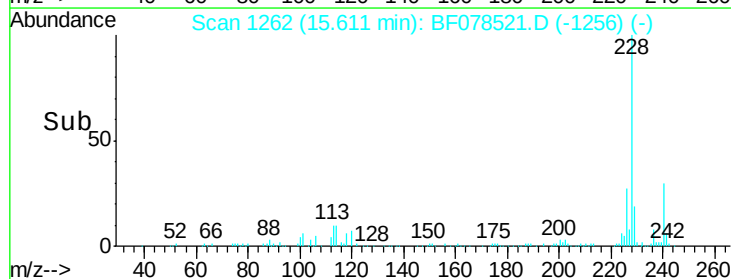
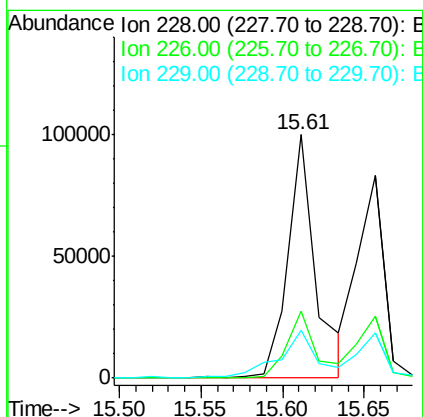
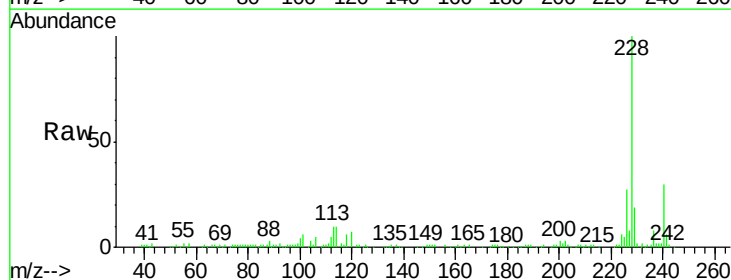
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-6

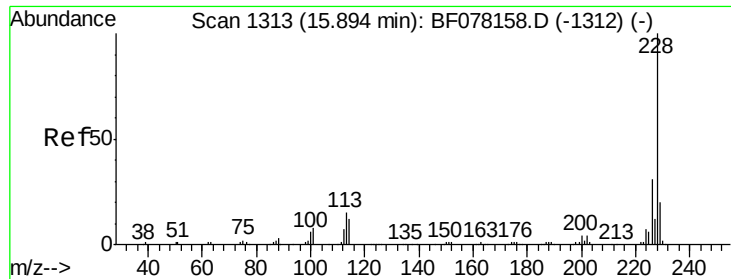
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 5.0   | 7.4   |
| 122     | 13.8  | 7.1   | 10.7  |



#80  
 Benzo(a)anthracene  
 Concen: 16.49 ng  
 RT: 15.61 min Scan# 1262  
 Delta R.T. -0.03 min  
 Lab File: BF078521.D  
 Acq: 15 Apr 2015 1:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.4  | 21.3  | 31.9  |
| 229     | 19.5  | 15.4  | 23.2  |





#82

Chrysene

Concen: 13.94 ng

RT: 15.66 min Scan# 1266

Delta R.T. -0.03 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

Instrument :

BNA\_F

ClientSampleId :

SP-6

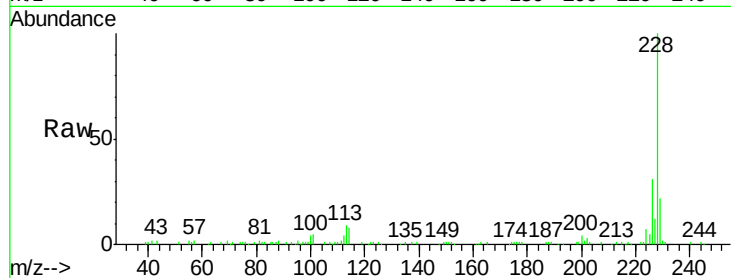
Tgt Ion:228 Resp: 94914

Ion Ratio Lower Upper

228 100

226 30.6 24.2 36.4

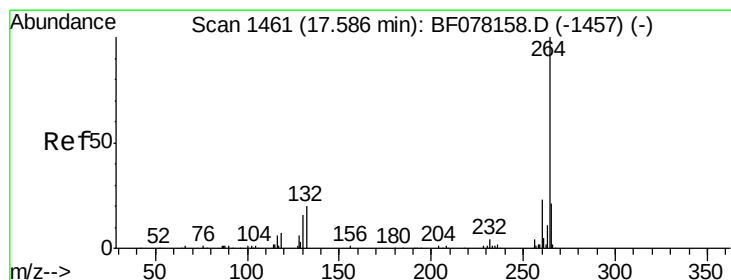
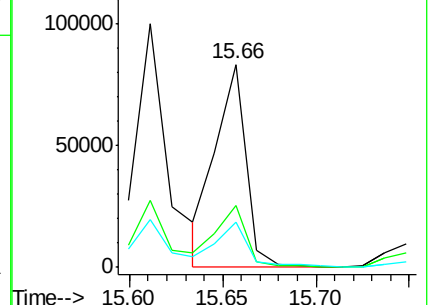
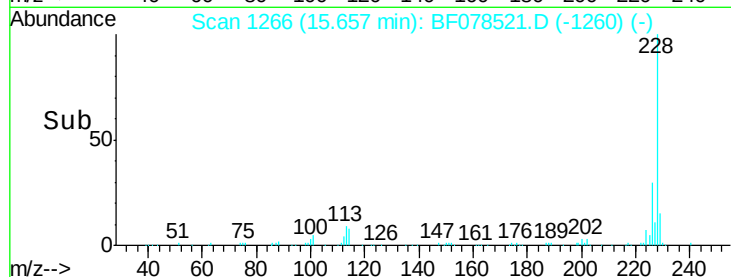
229 22.0 15.8 23.8



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 17.30 min Scan# 1410

Delta R.T. -0.18 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

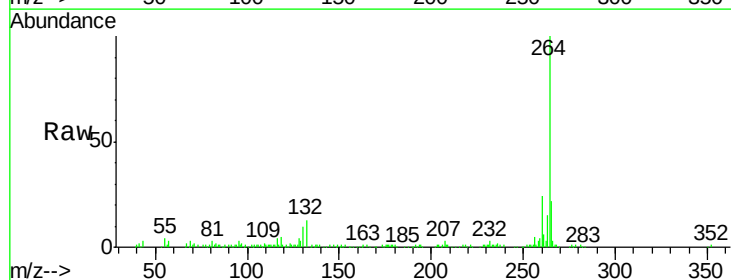
Tgt Ion:264 Resp: 129175

Ion Ratio Lower Upper

264 100

260 23.7 18.6 27.8

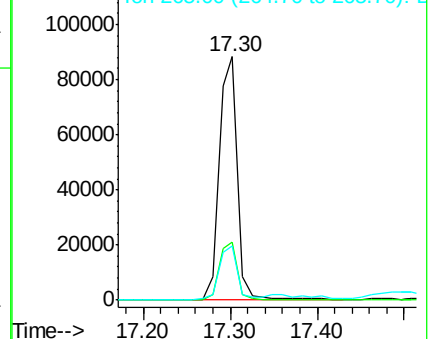
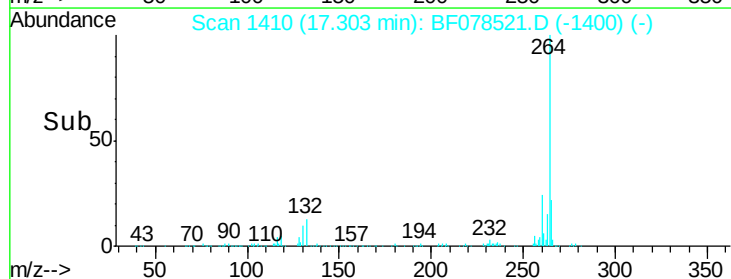
265 22.3 17.0 25.6

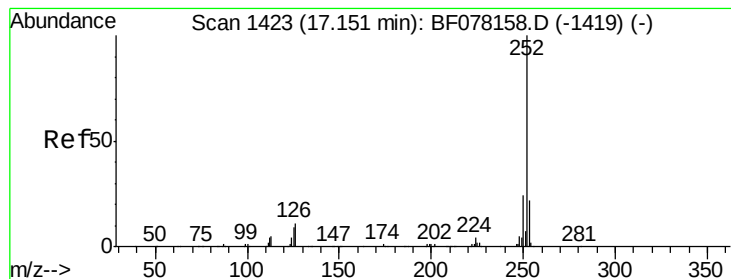


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 18.17 ng

RT: 16.87 min Scan# 1372

Delta R.T. -0.15 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

Instrument :

BNA\_F

ClientSampled :

SP-6

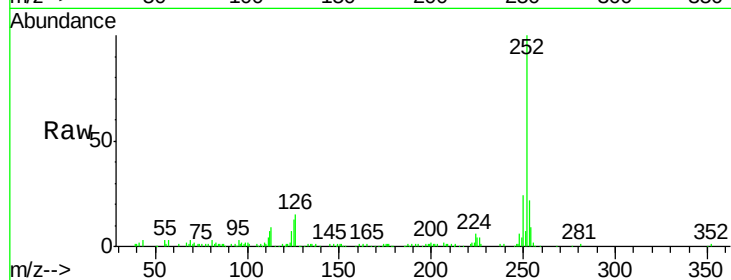
Tgt Ion:252 Resp: 145095

Ion Ratio Lower Upper

252 100

253 22.4 17.2 25.8

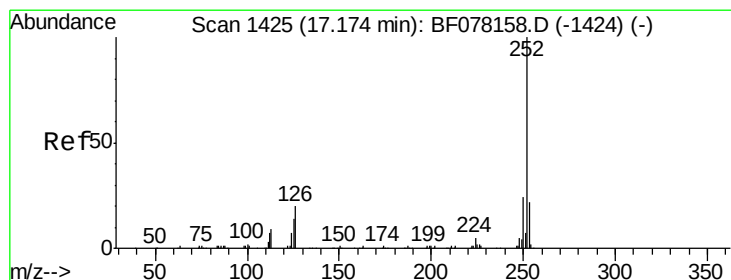
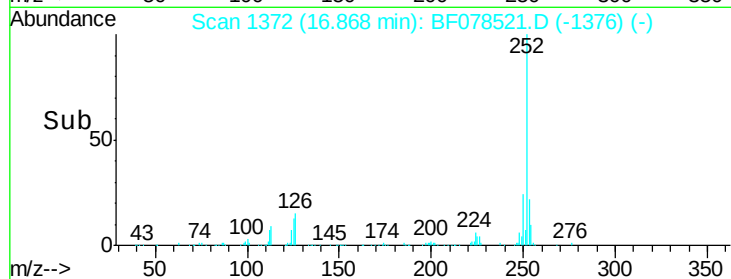
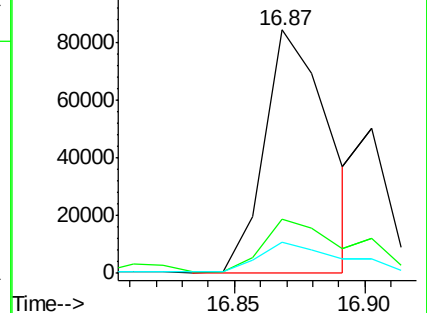
125 12.6 7.0 10.4#



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: 26.31 ng

RT: 16.87 min Scan# 1372

Delta R.T. -0.18 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

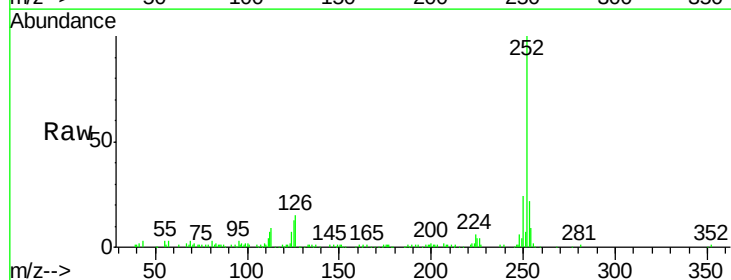
Tgt Ion:252 Resp: 186634

Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

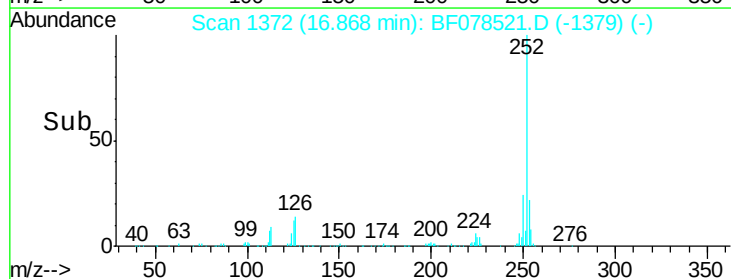
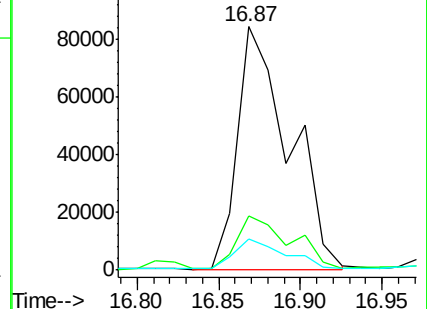
125 12.6 11.6 17.4

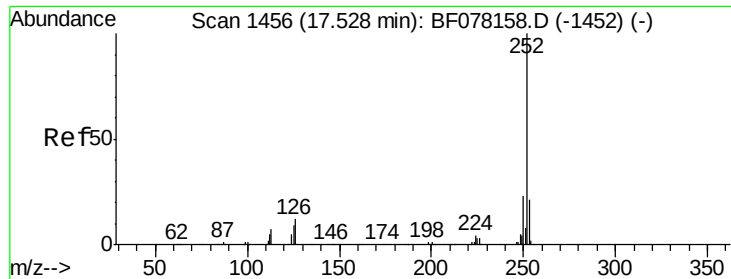


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 12.90 ng

RT: 17.23 min Scan# 1404

Delta R.T. -0.18 min

Lab File: BF078521.D

Acq: 15 Apr 2015 1:44

Instrument :

BNA\_F

ClientSampleId :

SP-6

Tgt Ion:252 Resp: 89882

Ion Ratio Lower Upper

252 100

253 23.0 16.8 25.2

125 11.9 7.4 11.0#

