

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF042115\  
 Data File : BF078699.D  
 Acq On : 21 Apr 2015 23:11  
 Operator : TP/IZ  
 Sample : G1938-13 5X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-81S

Quant Time: Apr 22 02:28:25 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 22 00:52:13 2015  
 Response via : Initial Calibration

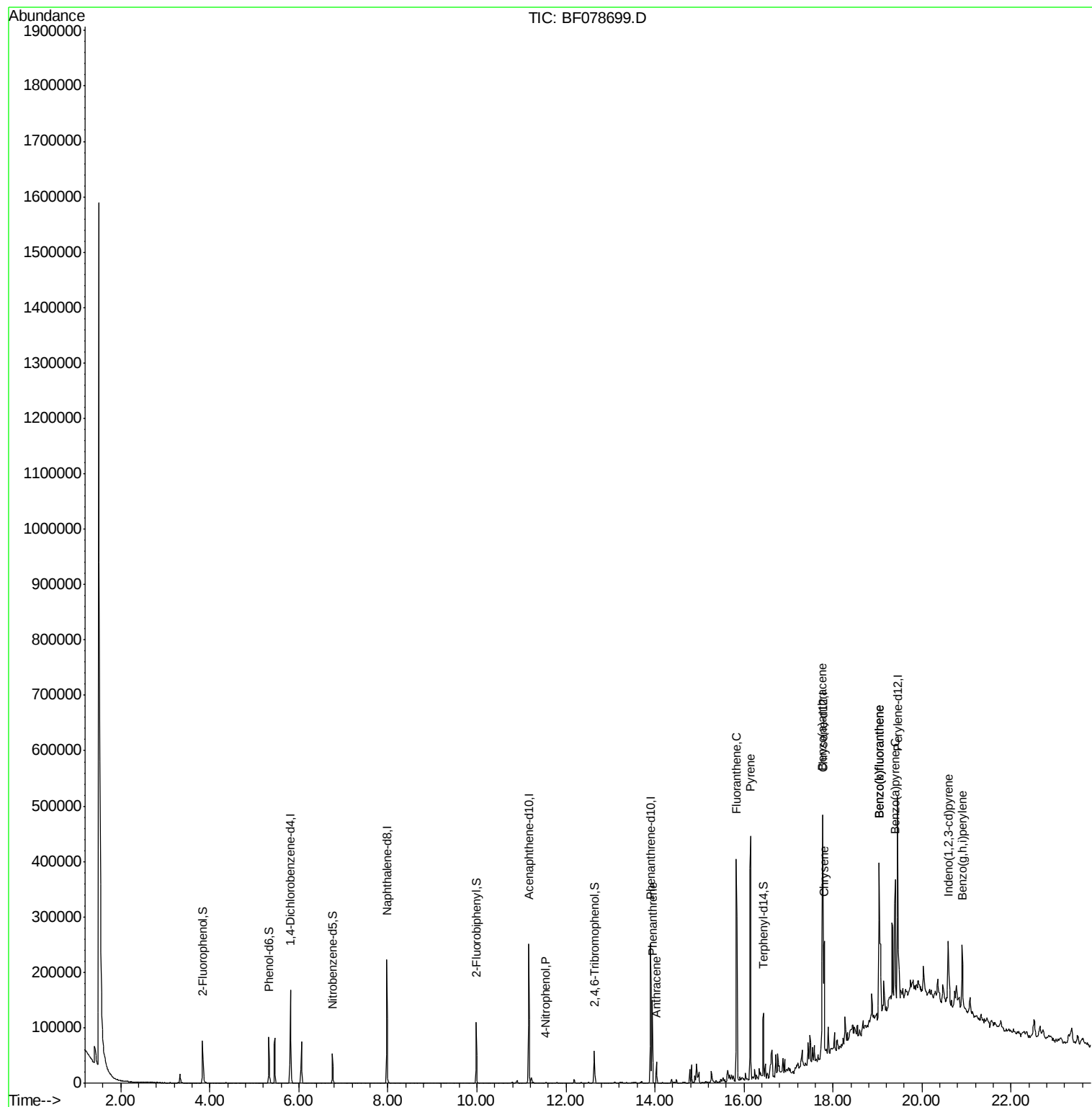
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|-------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 5.82  | 152  | 34283    | 20.00 | ng    | 0.00           |
| 21) Naphthalene-d8          | 7.98  | 136  | 143700   | 20.00 | ng    | -0.01          |
| 38) Acenaphthene-d10        | 11.16 | 164  | 73289    | 20.00 | ng    | -0.01          |
| 63) Phenanthrene-d10        | 13.90 | 188  | 148558   | 20.00 | ng    | -0.01          |
| 75) Chrysene-d12            | 17.77 | 240  | 163041   | 20.00 | ng    | -0.01          |
| 86) Perylene-d12            | 19.45 | 264  | 159667   | 20.00 | ng    | -0.03          |
| System Monitoring Compounds |       |      |          |       |       |                |
| 5) 2-Fluorophenol           | 3.84  | 112  | 32364    | 15.56 | ng    | 0.01           |
| 7) Phenol-d6                | 5.32  | 99   | 43123    | 16.55 | ng    | 0.00           |
| 23) Nitrobenzene-d5         | 6.75  | 82   | 25220    | 10.64 | ng    | -0.01          |
| 41) 2,4,6-Tribromophenol    | 12.64 | 330  | 11196    | 18.42 | ng    | -0.01          |
| 44) 2-Fluorobiphenyl        | 9.99  | 172  | 50437    | 9.84  | ng    | -0.01          |
| 78) Terphenyl-d14           | 16.43 | 244  | 59405    | 8.23  | ng    | 0.00           |
| Target Compounds            |       |      |          |       |       |                |
| 55) 4-Nitrophenol           | 11.55 | 139  | 396      | 3.17  | ng    | Qvalue<br># 18 |
| 70) Phenanthrene            | 13.94 | 178  | 83915    | 9.77  | ng    | 99             |
| 71) Anthracene              | 14.03 | 178  | 23718    | 2.80  | ng    | 98             |
| 74) Fluoranthene            | 15.83 | 202  | 237016   | 26.15 | ng    | 96             |
| 77) Pyrene                  | 16.15 | 202  | 243959   | 23.84 | ng    | # 95           |
| 80) Benzo(a)anthracene      | 17.76 | 228  | 142031   | 14.64 | ng    | 99             |
| 82) Chrysene                | 17.81 | 228  | 99917    | 10.96 | ng    | 97             |
| 85) Indeno(1,2,3-cd)pyrene  | 20.59 | 276  | 79098    | 7.65  | ng    | # 87           |
| 87) Benzo(b)fluoranthene    | 19.04 | 252  | 205772   | 20.85 | ng    | # 97           |
| 88) Benzo(k)fluoranthene    | 19.04 | 252  | 206931   | 23.60 | ng    | 97             |
| 89) Benzo(a)pyrene          | 19.39 | 252  | 121672   | 14.13 | ng    | 97             |
| 91) Benzo(g,h,i)perylene    | 20.90 | 276  | 78142    | 9.04  | ng    | 99             |

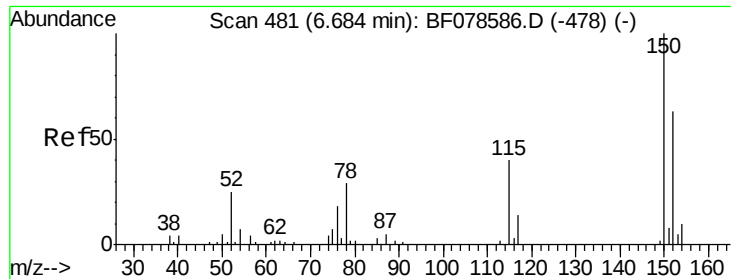
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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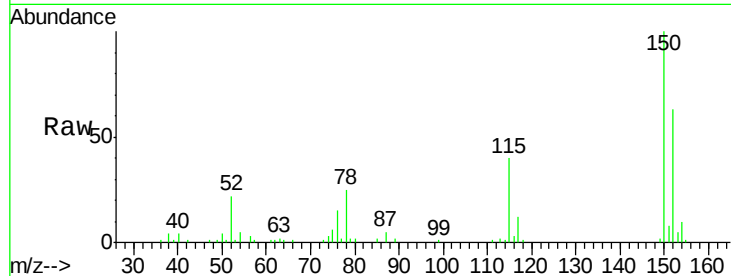




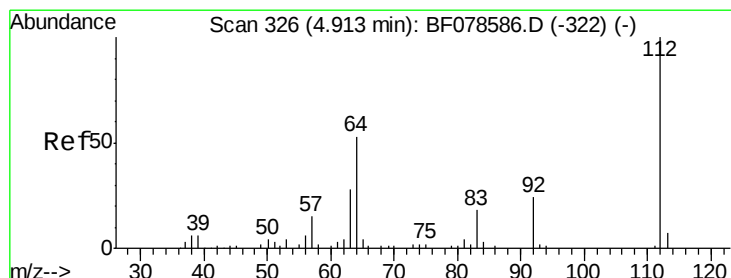
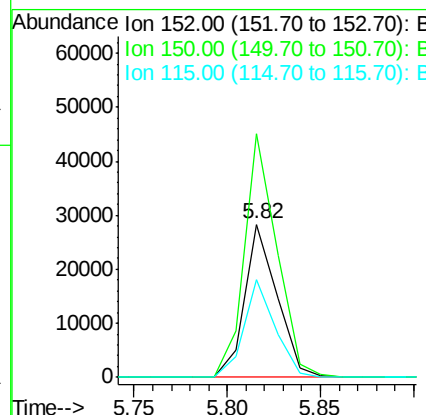
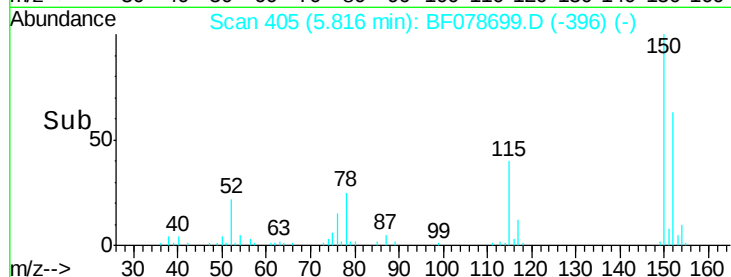
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 5.82 min Scan# 405  
 Delta R.T. -0.00 min  
 Lab File: BF078699.D  
 Acq: 21 Apr 2015 23:11

Instrument :  
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 ClientSampleId :  
 SB-81S

Tgt Ion:152 Resp: 34283  
 Ion Ratio Lower Upper  
 152 100  
 150 158.9 125.9 188.9  
 115 63.4 52.7 79.1

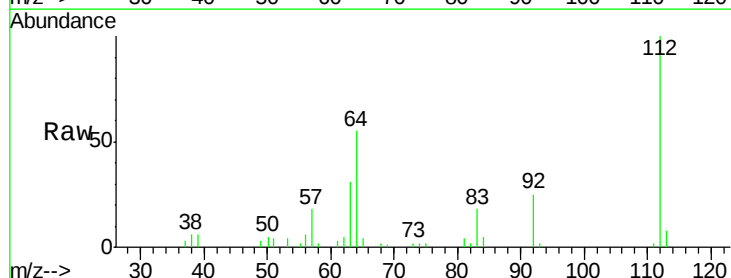


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

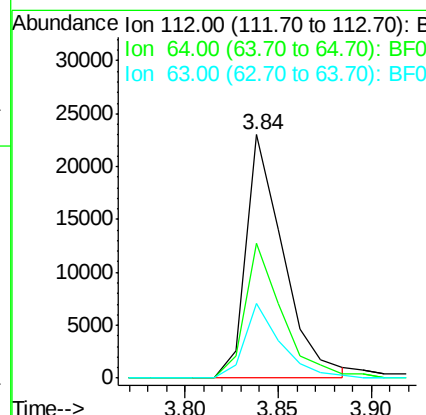
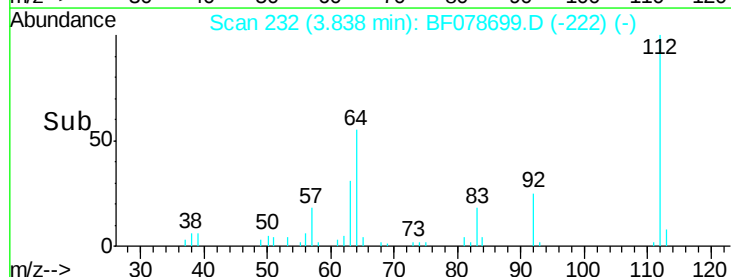


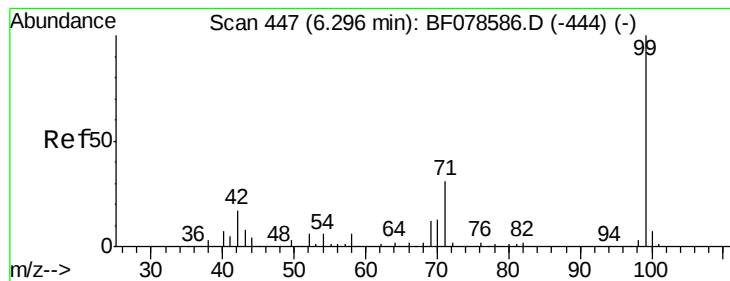
#5  
 2-Fluorophenol  
 Concen: 15.56 ng  
 RT: 3.84 min Scan# 232  
 Delta R.T. 0.01 min  
 Lab File: BF078699.D  
 Acq: 21 Apr 2015 23:11

Tgt Ion:112 Resp: 32364  
 Ion Ratio Lower Upper  
 112 100  
 64 55.5 39.9 59.9  
 63 30.6 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: 16.55 ng

RT: 5.32 min Scan# 362

Delta R.T. -0.00 min

Lab File: BF078699.D

Acq: 21 Apr 2015 23:11

Instrument :

BNA\_F

ClientSampleId :

SB-81S

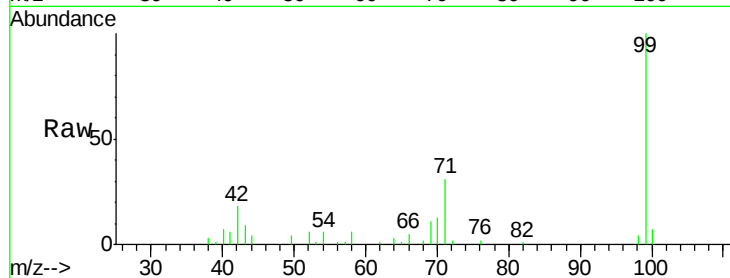
Tgt Ion: 99 Resp: 43123

Ion Ratio Lower Upper

99 100

42 17.9 14.8 22.2

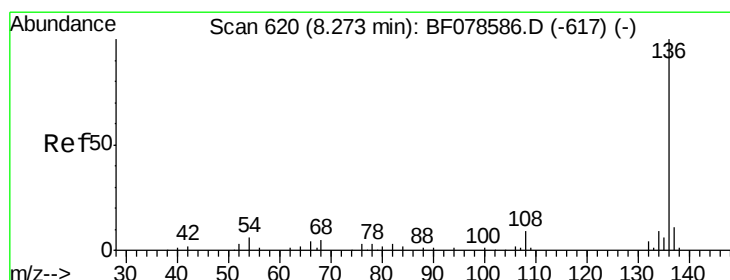
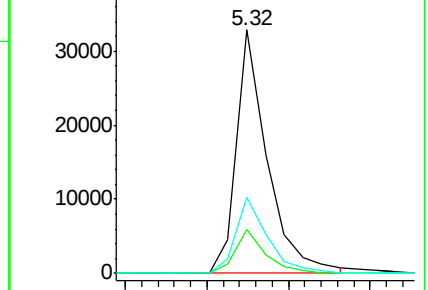
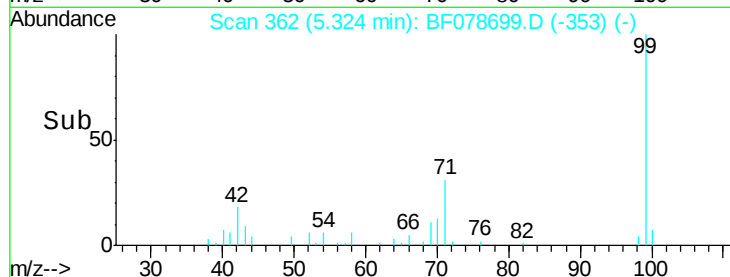
71 31.3 26.6 39.8



Abundance Ion 99.00 (98.70 to 99.70): BF078699.D (-353) (-)

Ion 42.00 (41.70 to 42.70): BF078699.D (-353) (-)

Ion 71.00 (70.70 to 71.70): BF078699.D (-353) (-)



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.98 min Scan# 594

Delta R.T. -0.01 min

Lab File: BF078699.D

Acq: 21 Apr 2015 23:11

Tgt Ion: 136 Resp: 143700

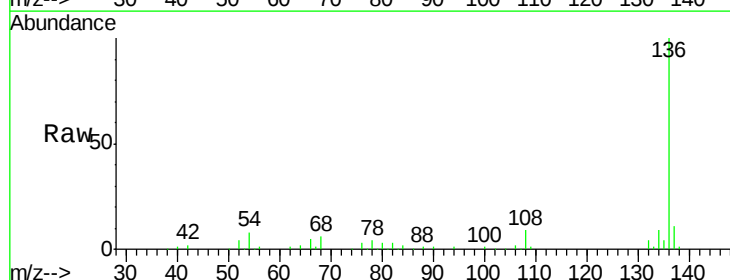
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 7.7 7.0 10.6

68 5.8 5.4 8.2

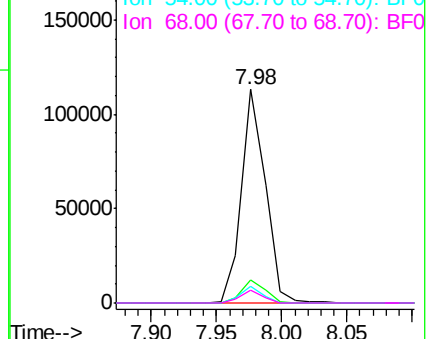
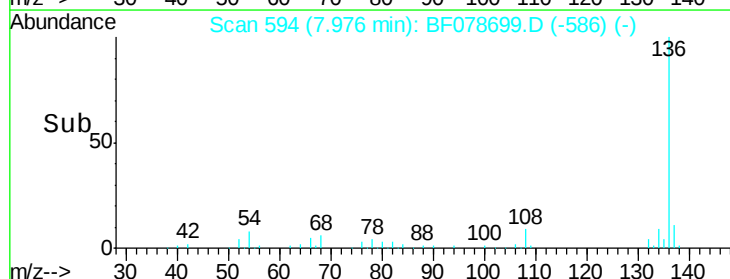


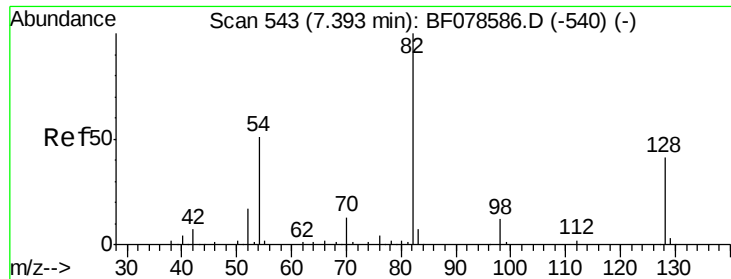
Abundance Ion 136.00 (135.70 to 136.70): BF078699.D (-586) (-)

Ion 137.00 (136.70 to 137.70): BF078699.D (-586) (-)

Ion 54.00 (53.70 to 54.70): BF078699.D (-586) (-)

Ion 68.00 (67.70 to 68.70): BF078699.D (-586) (-)

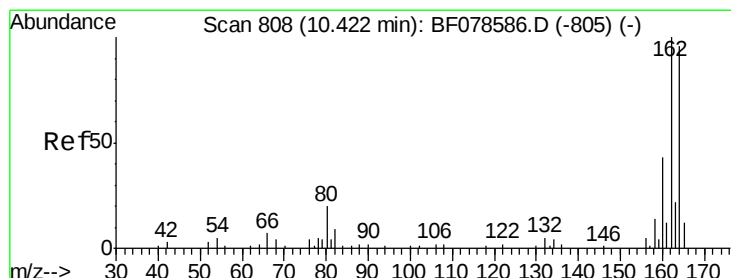
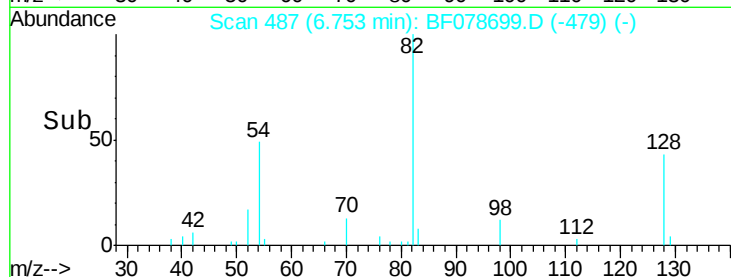
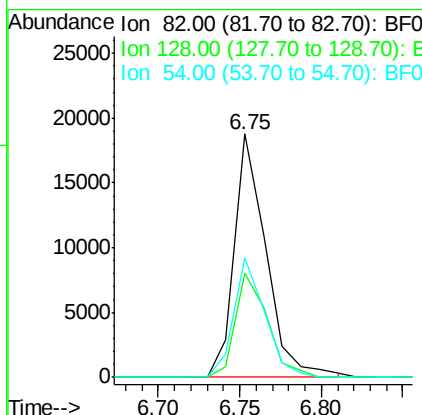
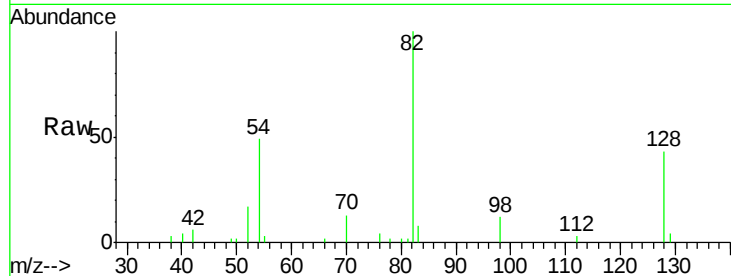




#23  
 Nitrobenzene-d5  
 Concen: 10.64 ng  
 RT: 6.75 min Scan# 487  
 Delta R.T. -0.01 min  
 Lab File: BF078699.D  
 Acq: 21 Apr 2015 23:11

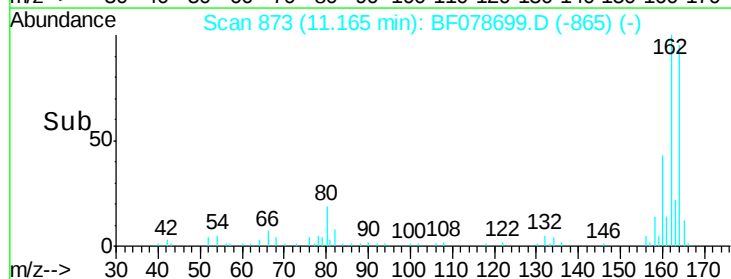
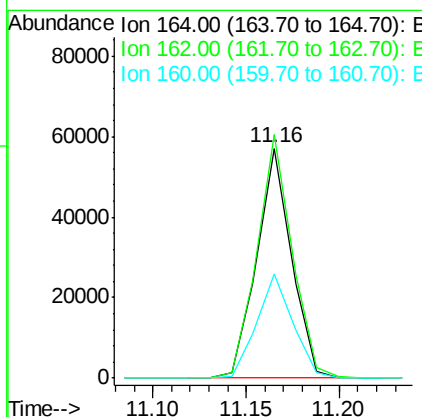
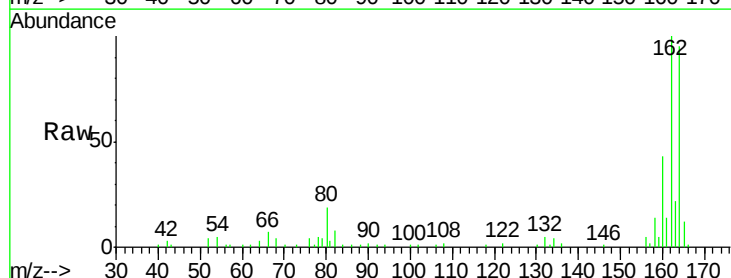
Instrument :  
 BNA\_F  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.8  | 31.8  | 47.8  |
| 54      | 49.2  | 41.5  | 62.3  |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 11.16 min Scan# 873  
 Delta R.T. -0.01 min  
 Lab File: BF078699.D  
 Acq: 21 Apr 2015 23:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.8 | 82.2  | 123.2 |
| 160     | 45.1  | 34.7  | 52.1  |

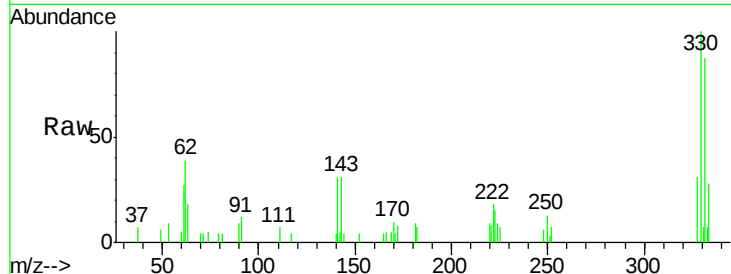




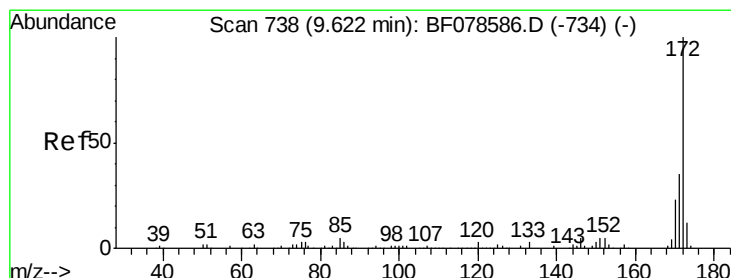
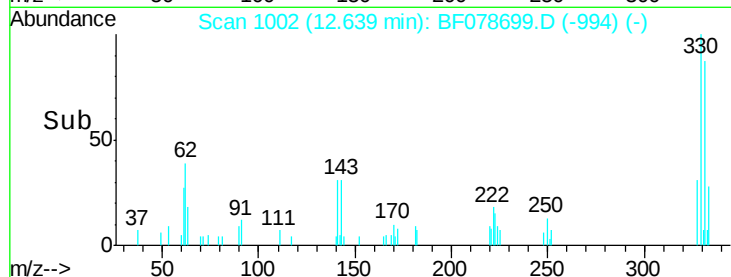
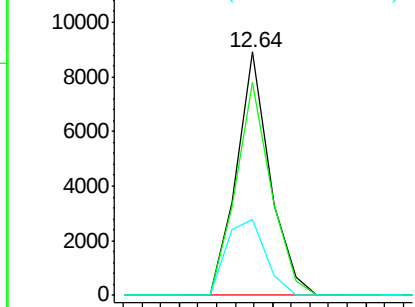
#41  
 2,4,6-Tribromophenol  
 Concen: 18.42 ng  
 RT: 12.64 min Scan# 1002  
 Delta R.T. -0.01 min  
 Lab File: BF078699.D  
 Acq: 21 Apr 2015 23:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-81S

Tgt Ion:330 Resp: 11196  
 Ion Ratio Lower Upper  
 330 100  
 332 91.1 78.6 117.8  
 141 36.2 31.2 46.8

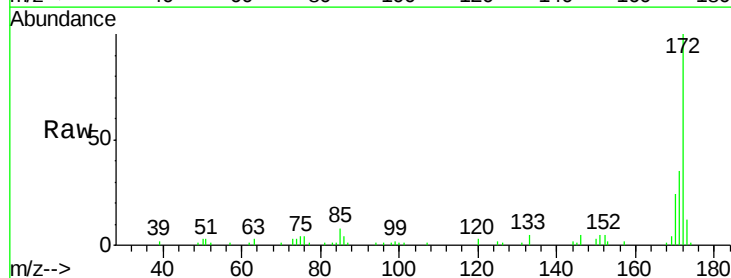


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

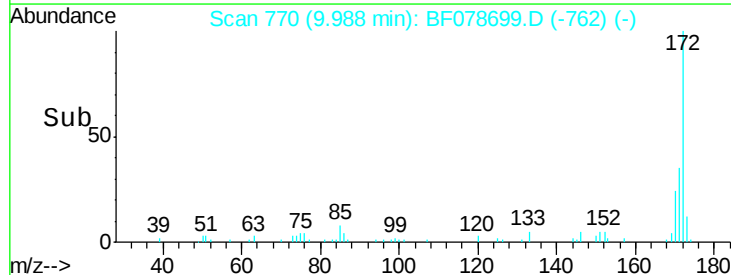
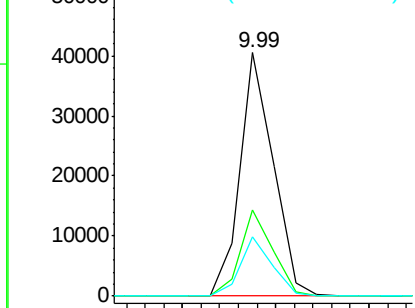


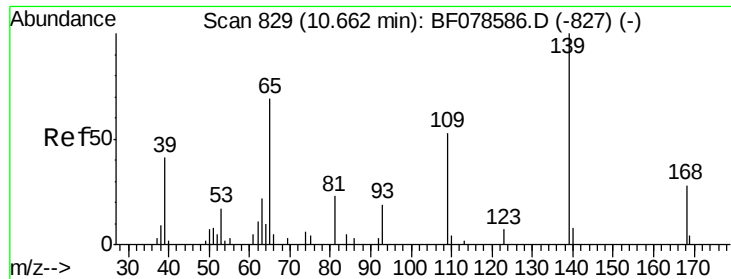
#44  
 2-Fluorobiphenyl  
 Concen: 9.84 ng  
 RT: 9.99 min Scan# 770  
 Delta R.T. -0.01 min  
 Lab File: BF078699.D  
 Acq: 21 Apr 2015 23:11

Tgt Ion:172 Resp: 50437  
 Ion Ratio Lower Upper  
 172 100  
 171 35.3 28.6 42.8  
 170 24.4 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





#55

4-Nitrophenol

Concen: 3.17 ng

RT: 11.55 min Scan# 907

Delta R.T. -0.06 min

Lab File: BF078699.D

Acq: 21 Apr 2015 23:11

Instrument :

BNA\_F

ClientSampleId :

SB-81S

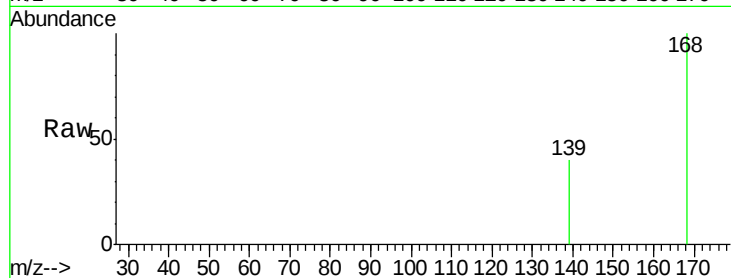
Tgt Ion:139 Resp: 396

Ion Ratio Lower Upper

139 100

109 0.0 36.7 76.7#

65 0.0 49.9 89.9#



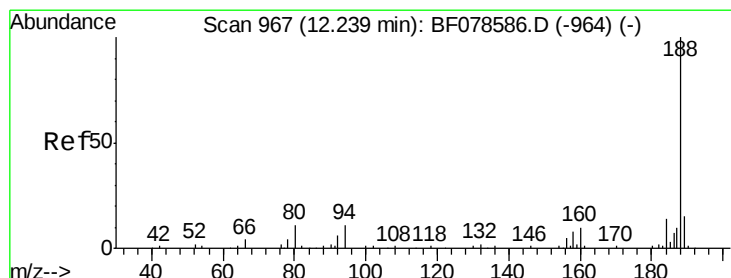
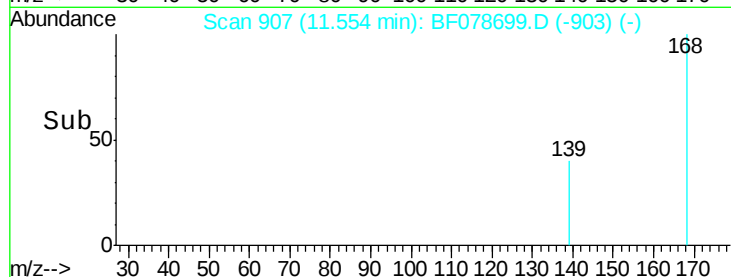
Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

11.55

Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 13.90 min Scan# 1112

Delta R.T. -0.01 min

Lab File: BF078699.D

Acq: 21 Apr 2015 23:11

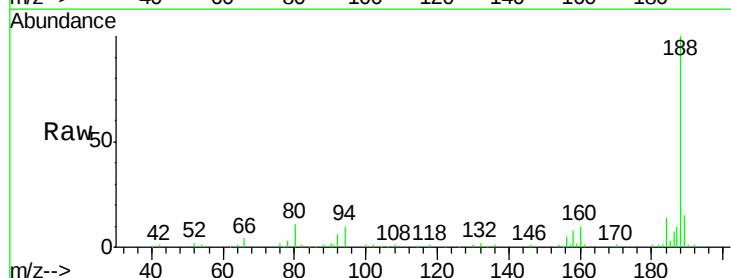
Tgt Ion:188 Resp: 148558

Ion Ratio Lower Upper

188 100

94 10.1 9.0 13.4

80 10.9 9.5 14.3



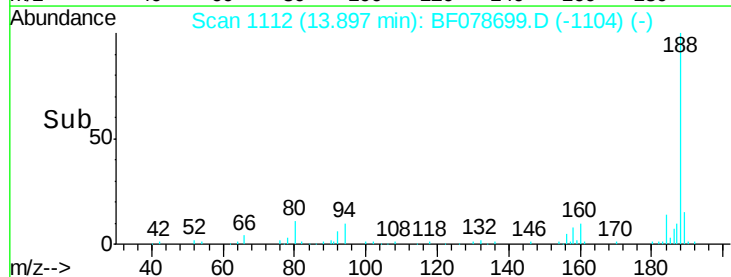
Abundance Ion 188.00 (187.70 to 188.70): E

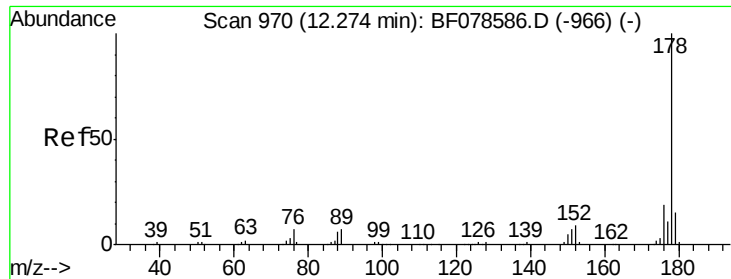
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

13.90

Time-->

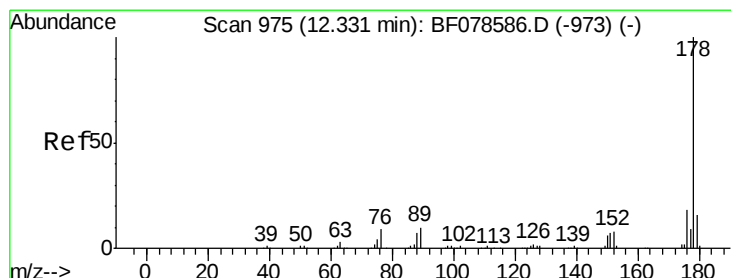
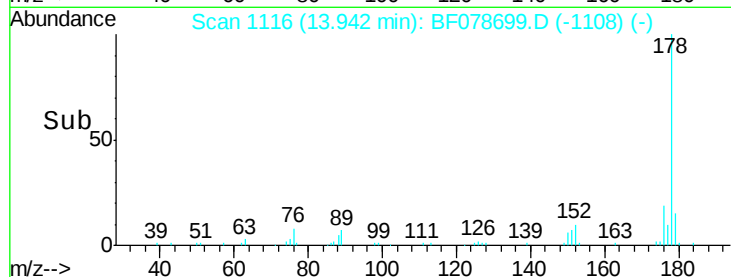
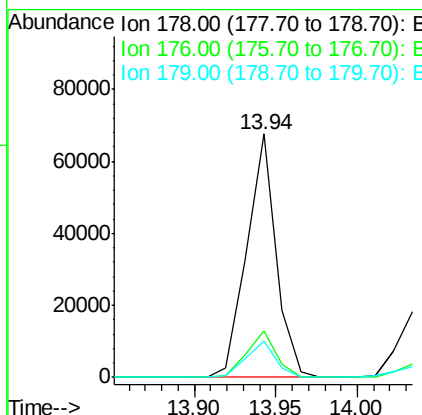
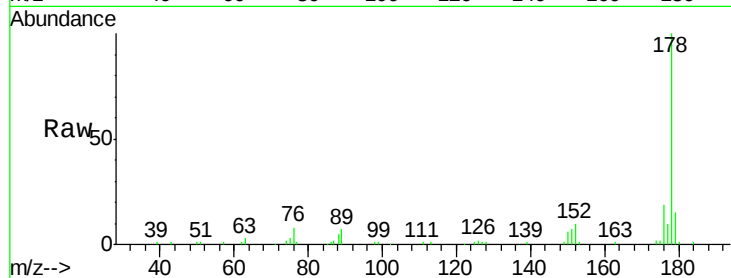




#70  
Phenanthrene  
Concen: 9.77 ng  
RT: 13.94 min Scan# 1116  
Delta R.T. -0.01 min  
Lab File: BF078699.D  
Acq: 21 Apr 2015 23:11

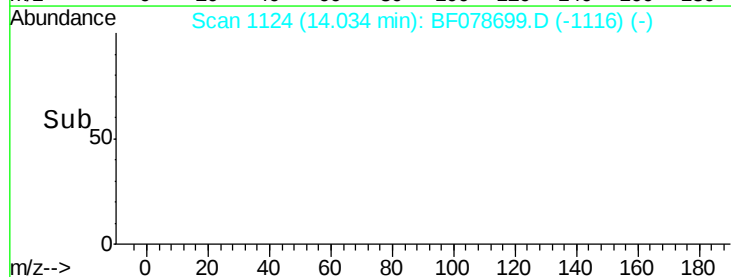
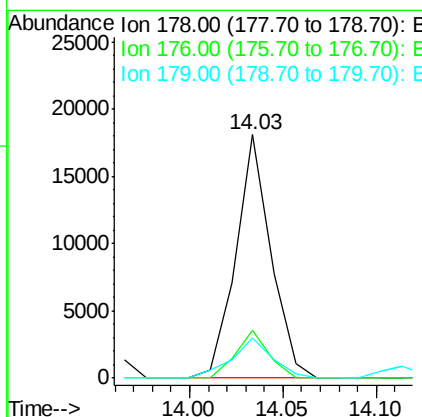
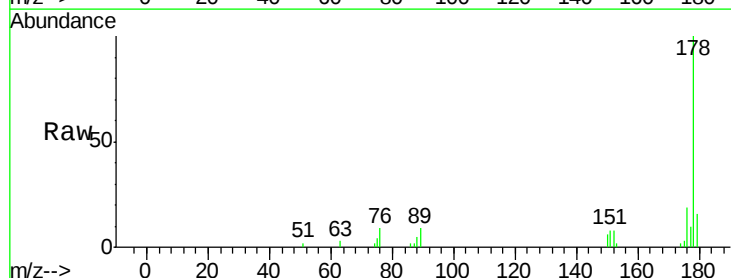
Instrument :  
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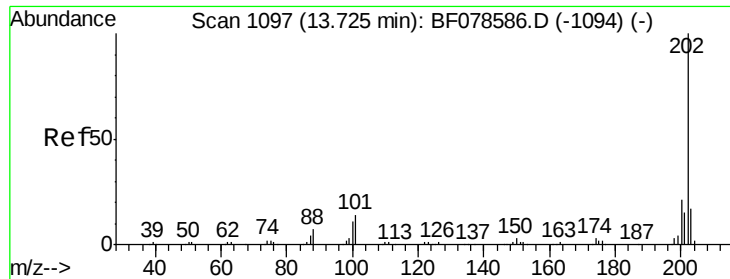
Tgt Ion:178 Resp: 83915  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.4 23.0  
179 14.8 12.2 18.2



#71  
Anthracene  
Concen: 2.80 ng  
RT: 14.03 min Scan# 1124  
Delta R.T. -0.01 min  
Lab File: BF078699.D  
Acq: 21 Apr 2015 23:11

Tgt Ion:178 Resp: 23718  
Ion Ratio Lower Upper  
178 100  
176 19.4 14.8 22.2  
179 16.2 12.4 18.6

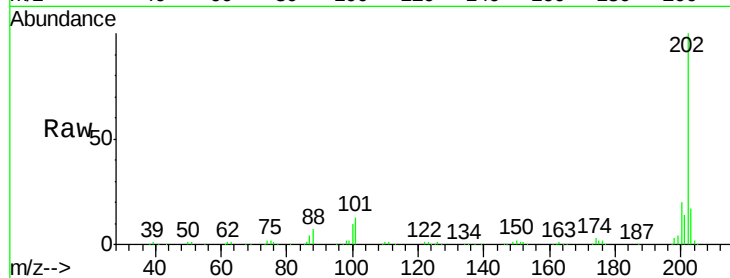




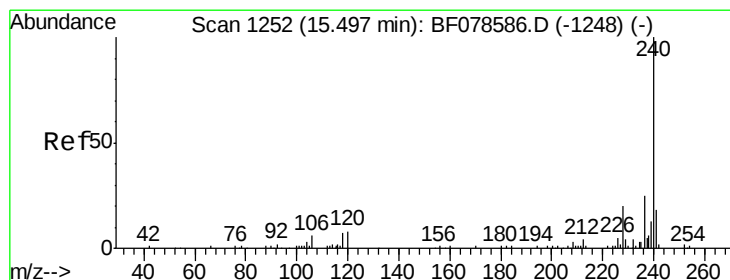
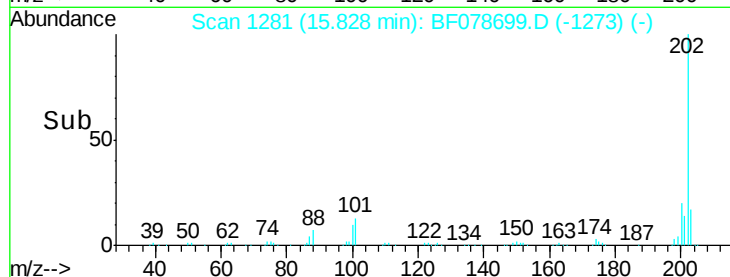
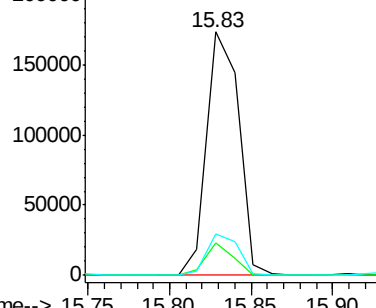
#74  
 Fluoranthene  
 Concen: 26.15 ng  
 RT: 15.83 min Scan# 1281  
 Delta R.T. -0.01 min  
 Lab File: BF078699.D  
 Acq: 21 Apr 2015 23:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-81S

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.1  | 0.0   | 35.2  |
| 203     | 17.0  | 0.0   | 38.5  |

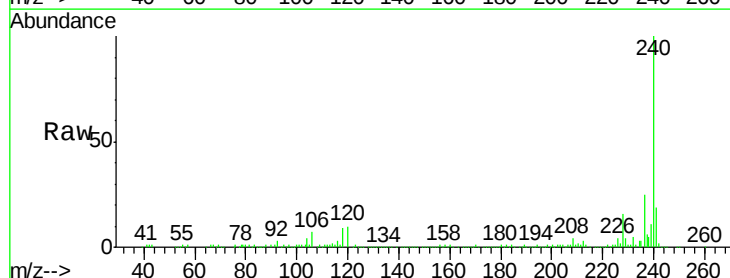


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 17.77 min Scan# 1451  
 Delta R.T. -0.01 min  
 Lab File: BF078699.D  
 Acq: 21 Apr 2015 23:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.1  | 7.1   | 10.7  |
| 236     | 25.0  | 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

