

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052915\  
 Data File : BF079587.D  
 Acq On : 30 May 2015 6:08  
 Operator : TP/IZ  
 Sample : G2408-06  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-23S

Quant Time: May 31 05:29:13 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 29 17:35:14 2015  
 Response via : Initial Calibration

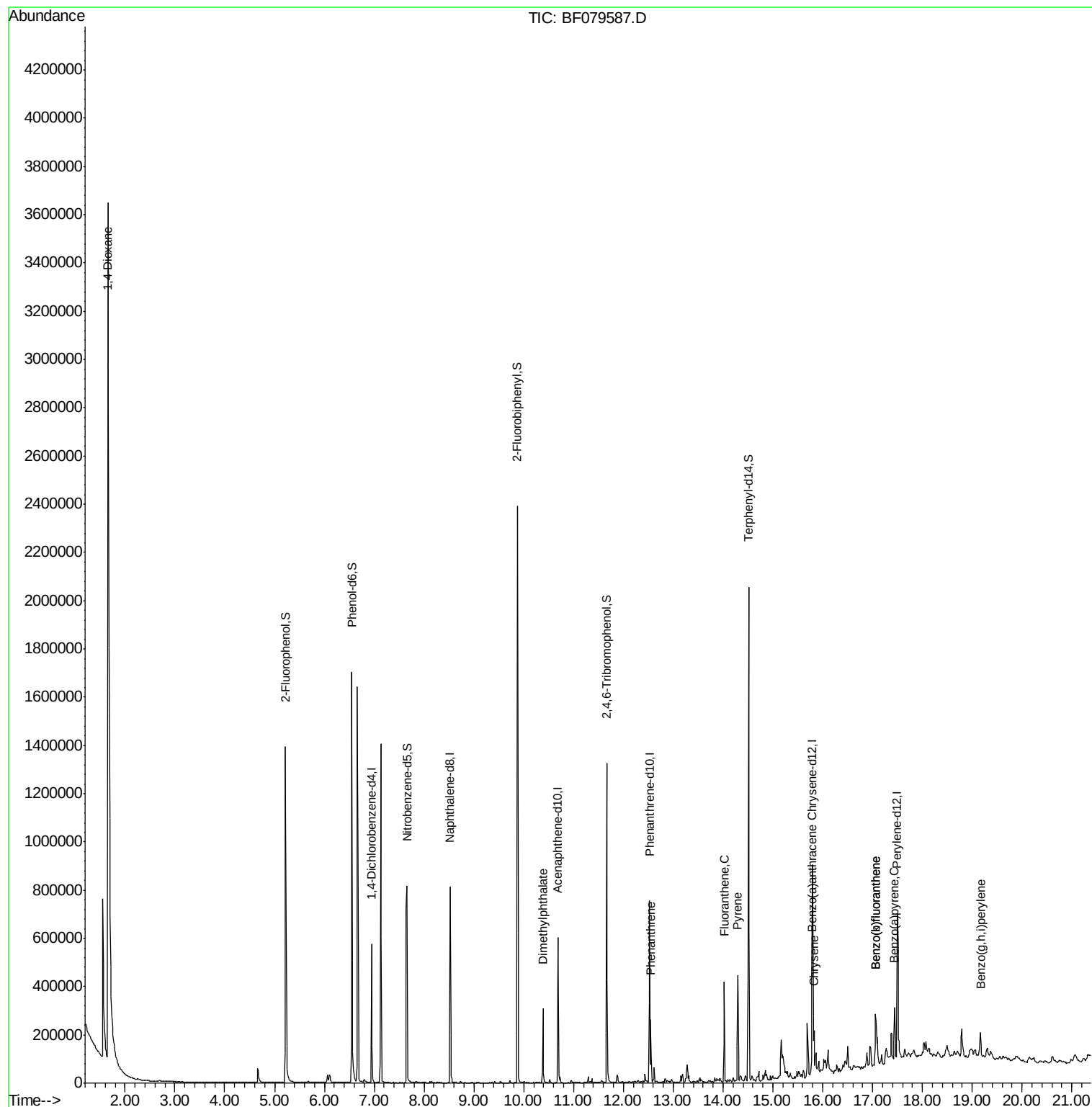
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.95  | 152  | 93926    | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.52  | 136  | 387101   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10        | 10.68 | 164  | 175693   | 20.00     | ng    | -0.02    |
| 63) Phenanthrene-d10        | 12.53 | 188  | 319407   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12            | 15.79 | 240  | 307051   | 20.00     | ng    | -0.05    |
| 86) Perylene-d12            | 17.50 | 264  | 314468   | 20.00     | ng    | -0.17    |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.22  | 112  | 524806   | 96.91     | ng    | -0.01    |
| 7) Phenol-d6                | 6.55  | 99   | 694479   | 100.62    | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.66  | 82   | 395954   | 59.13     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 11.67 | 330  | 195063   | 101.08    | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.87  | 172  | 782559   | 63.55     | ng    | -0.01    |
| 78) Terphenyl-d14           | 14.51 | 244  | 748246   | 57.19     | ng    | -0.02    |
| Target Compounds            |       |      |          |           |       |          |
| 2) 1,4-Dioxane              | 1.66  | 88   | 203869   | 79.14     | ng    | # 100    |
| 9) Benzaldehyde             | 6.55  | 77   | 865      | Below Cal |       | # 1      |
| 49) Dimethylphthalate       | 10.39 | 163  | 132459   | 10.23     | ng    | 99       |
| 70) Phenanthrene            | 12.55 | 178  | 114379   | 6.53      | ng    | 99       |
| 73) Di-n-butylphthalate     | 13.29 | 149  | 6920     | Below Cal |       | # 89     |
| 74) Fluoranthene            | 14.02 | 202  | 196755   | 10.47     | ng    | 99       |
| 77) Pyrene                  | 14.30 | 202  | 185541   | 9.75      | ng    | 98       |
| 80) Benzo(a)anthracene      | 15.78 | 228  | 105436   | 5.97      | ng    | 98       |
| 82) Chrysene                | 15.83 | 228  | 79085    | 4.71      | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 17.06 | 252  | 177841   | 9.92      | ng    | # 97     |
| 88) Benzo(k)fluoranthene    | 17.06 | 252  | 177841   | 11.09     | ng    | # 96     |
| 89) Benzo(a)pyrene          | 17.44 | 252  | 100979   | 4.70      | ng    | 96       |
| 90) Dibenzo(a,h)anthracene  | 18.87 | 278  | 5119     | Below Cal |       | # 70     |
| 91) Benzo(g,h,i)perylene    | 19.17 | 276  | 85892    | 2.34      | ng    | 95       |

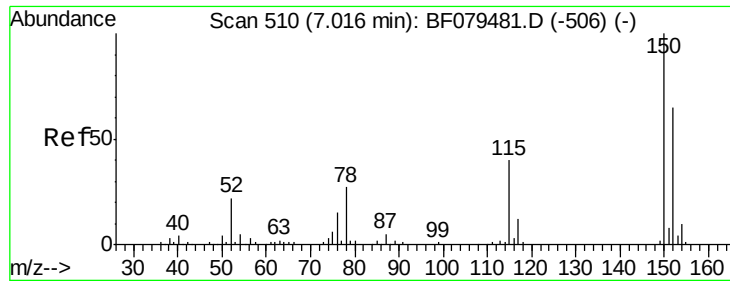
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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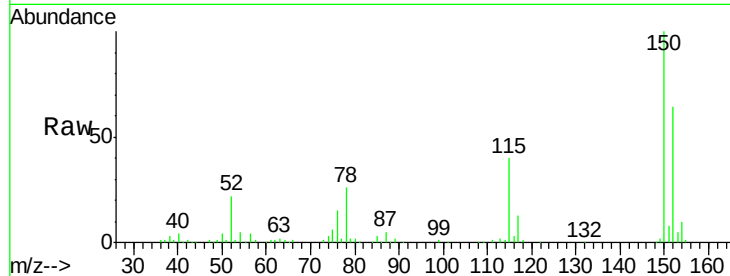




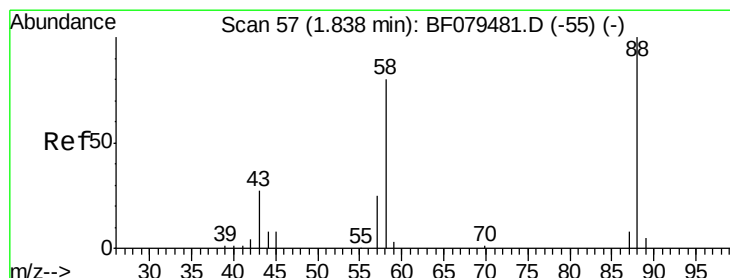
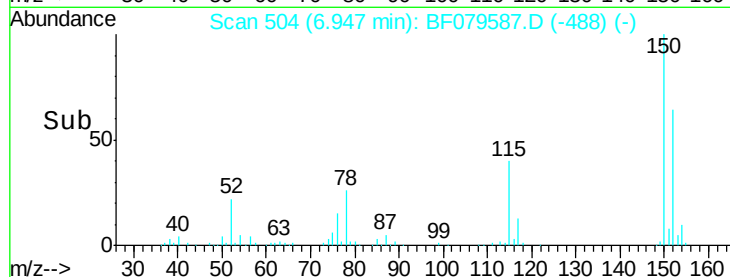
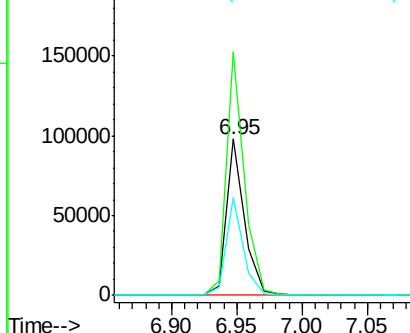
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.95 min Scan# 504  
 Delta R.T. -0.01 min  
 Lab File: BF079587.D  
 Acq: 30 May 2015 6:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-23S

Tgt Ion: 152 Resp: 93926  
 Ion Ratio Lower Upper  
 152 100  
 150 155.7 124.0 186.0  
 115 62.4 49.6 74.4

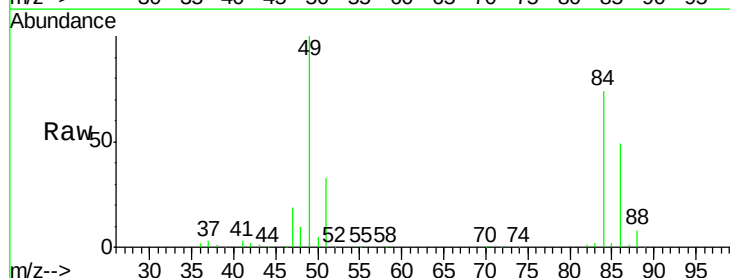


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

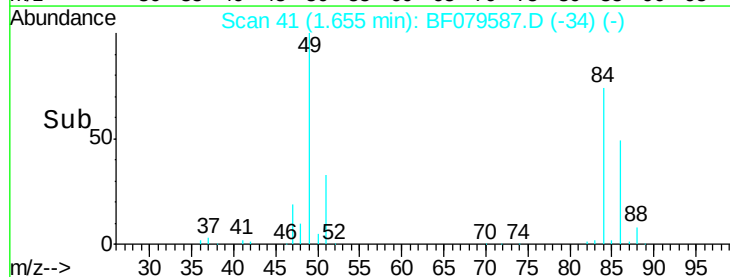
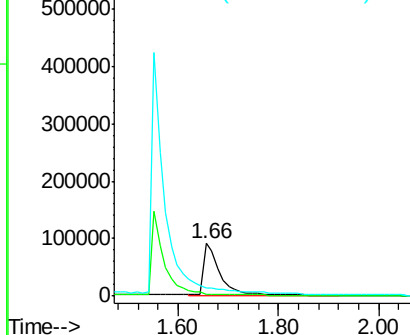


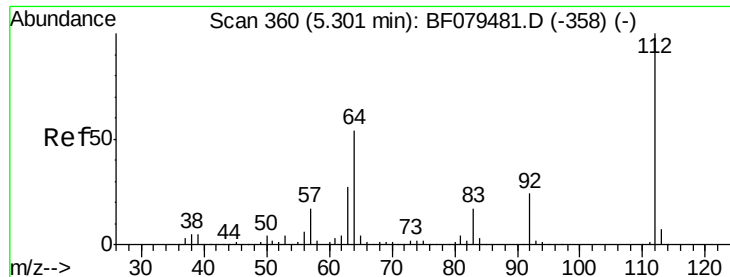
#2  
 1,4-Dioxane  
 Concen: 79.14 ng  
 RT: 1.66 min Scan# 41  
 Delta R.T. -0.11 min  
 Lab File: BF079587.D  
 Acq: 30 May 2015 6:08

Tgt Ion: 88 Resp: 203869  
 Ion Ratio Lower Upper  
 88 100  
 58 0.0 0.0 0.0  
 43 0.0 0.0 0.0



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: 96.91 ng

RT: 5.22 min Scan# 353

Delta R.T. -0.01 min

Lab File: BF079587.D

Acq: 30 May 2015 6:08

Instrument :

BNA\_F

ClientSampleId :

SB-23S

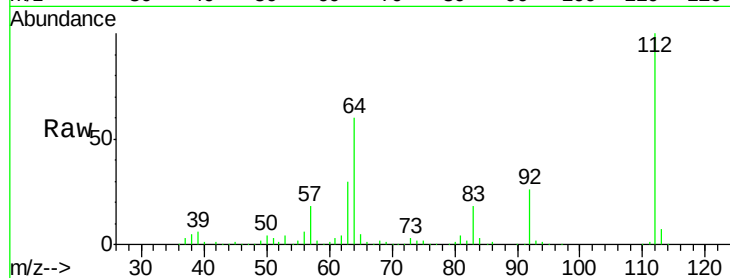
Tgt Ion: 112 Resp: 524806

Ion Ratio Lower Upper

112 100

64 59.7 43.5 65.3

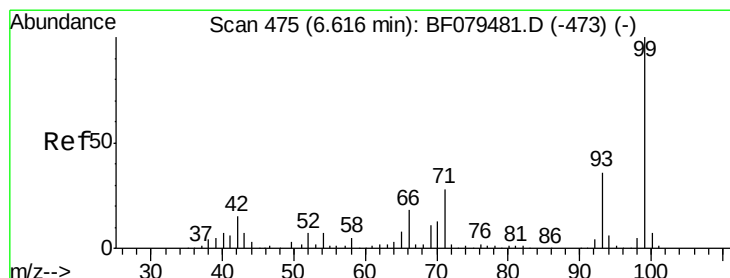
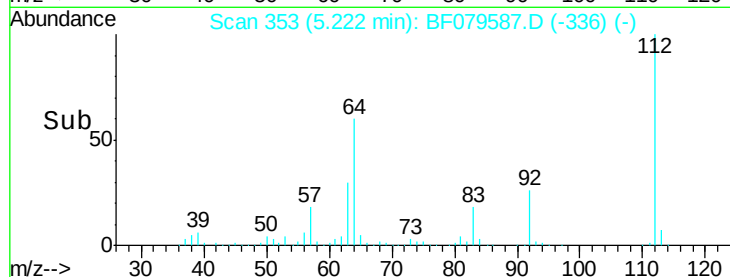
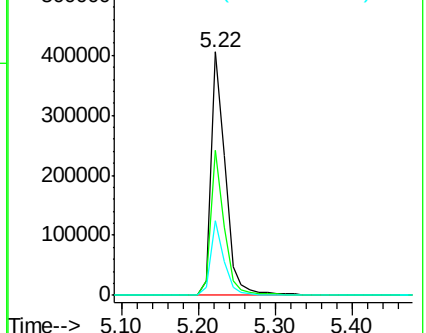
63 30.5 21.8 32.8



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: 100.62 ng

RT: 6.55 min Scan# 469

Delta R.T. -0.01 min

Lab File: BF079587.D

Acq: 30 May 2015 6:08

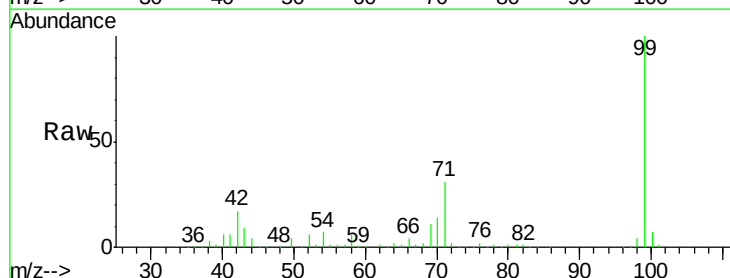
Tgt Ion: 99 Resp: 694479

Ion Ratio Lower Upper

99 100

42 16.9 11.9 17.9

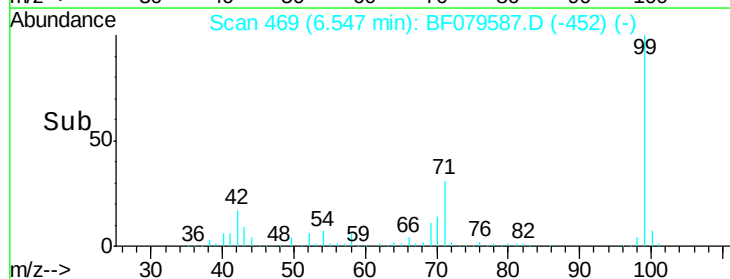
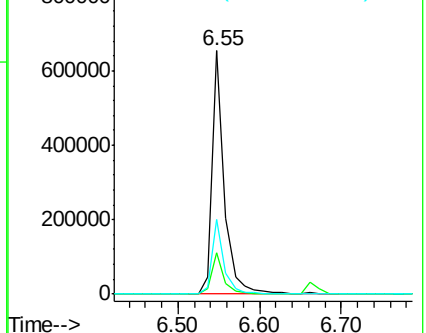
71 30.7 22.1 33.1

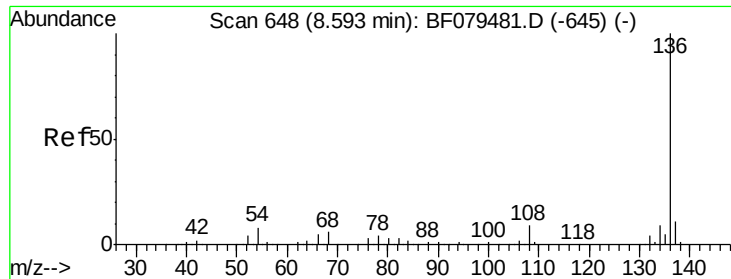


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

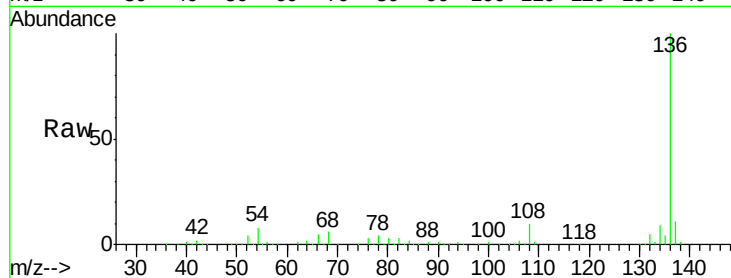




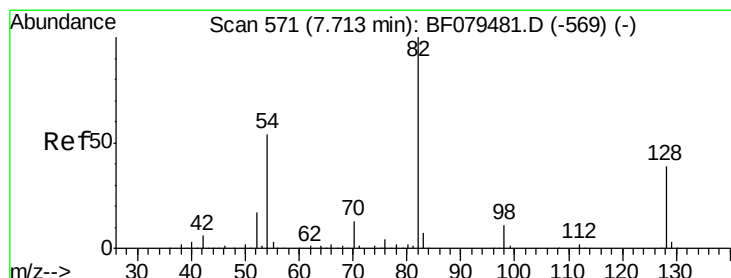
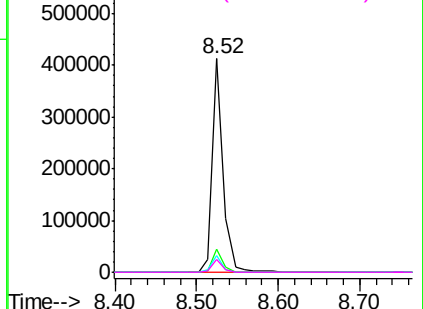
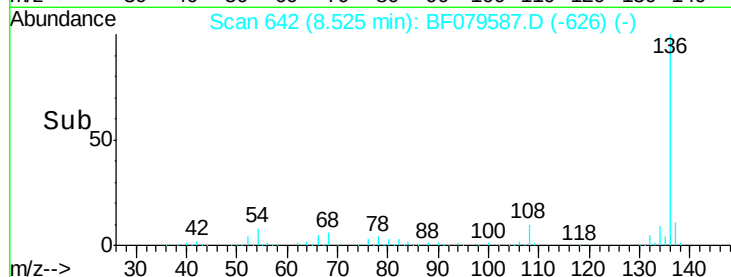
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.52 min Scan# 642  
Delta R.T. -0.01 min  
Lab File: BF079587.D  
Acq: 30 May 2015 6:08

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|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 387101 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.5   | 12.7   |
| 54       | 7.8   | 6.6   | 9.8    |
| 68       | 5.8   | 4.7   | 7.1    |

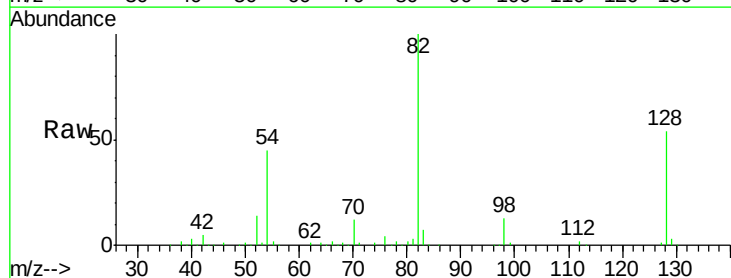


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

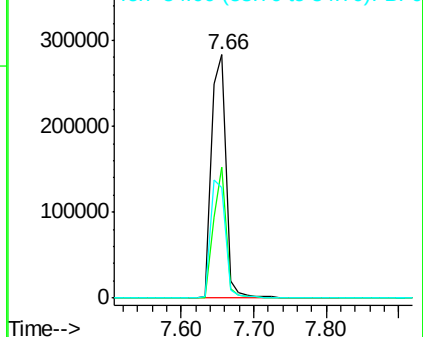
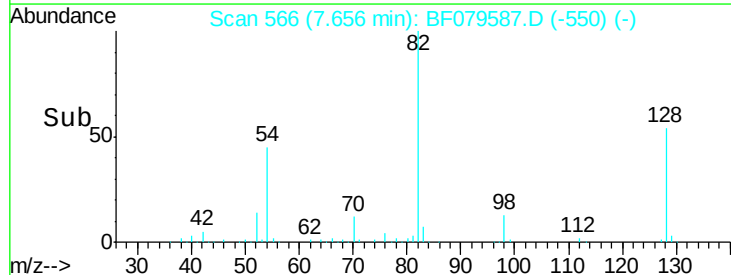


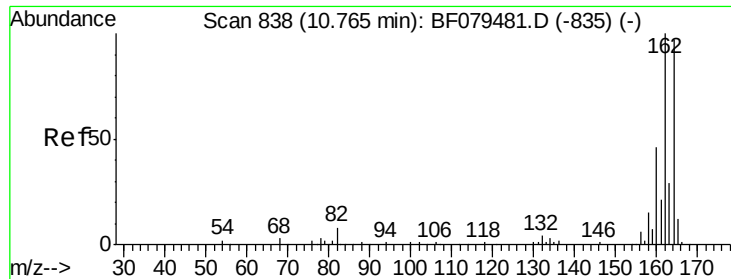
#23  
Nitrobenzene-d5  
Concen: 59.13 ng  
RT: 7.66 min Scan# 566  
Delta R.T. -0.01 min  
Lab File: BF079587.D  
Acq: 30 May 2015 6:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 395954 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 53.5  | 30.8  | 46.2#  |
| 54       | 45.3  | 42.8  | 64.2   |



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

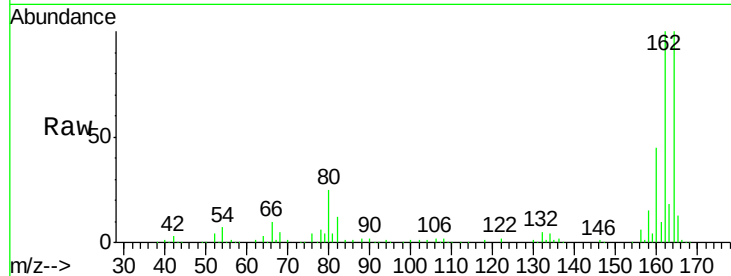




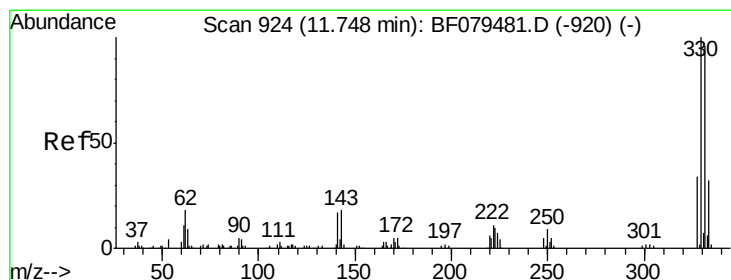
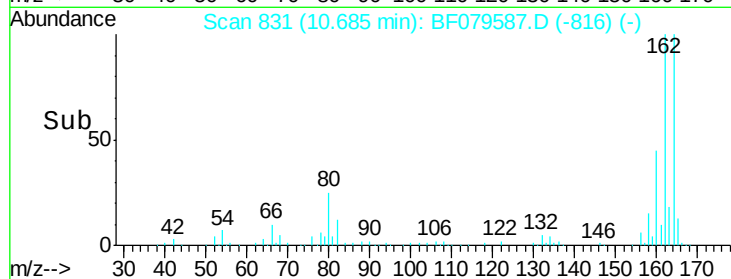
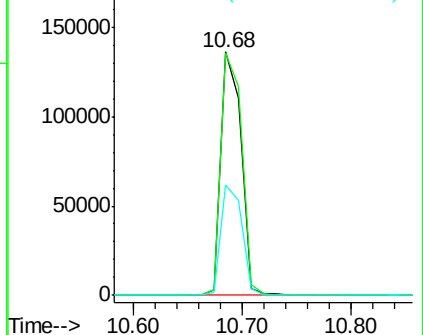
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.68 min Scan# 831  
 Delta R.T. -0.02 min  
 Lab File: BF079587.D  
 Acq: 30 May 2015 6:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-23S

Tgt Ion:164 Resp: 175693  
 Ion Ratio Lower Upper  
 164 100  
 162 99.7 82.6 124.0  
 160 45.1 37.7 56.5

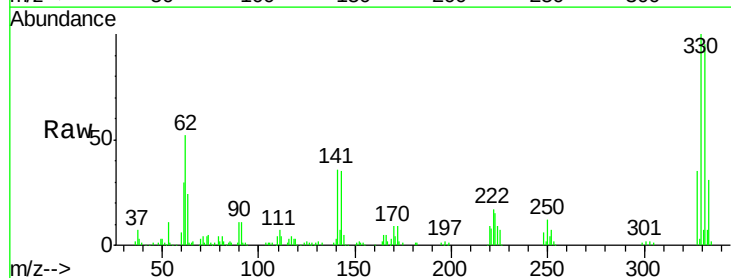


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

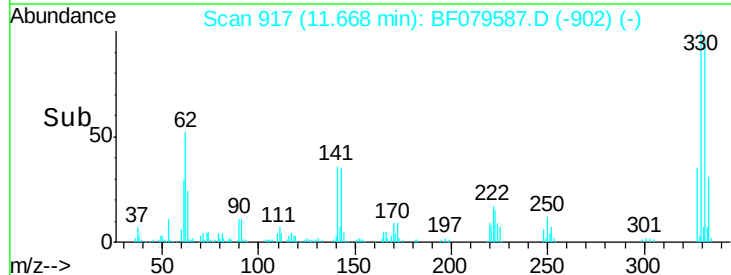
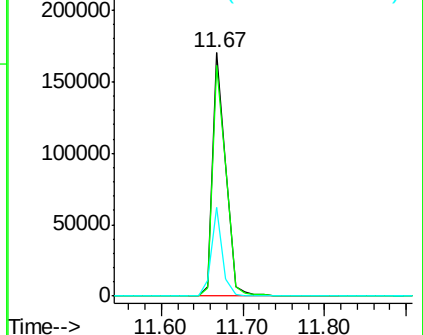


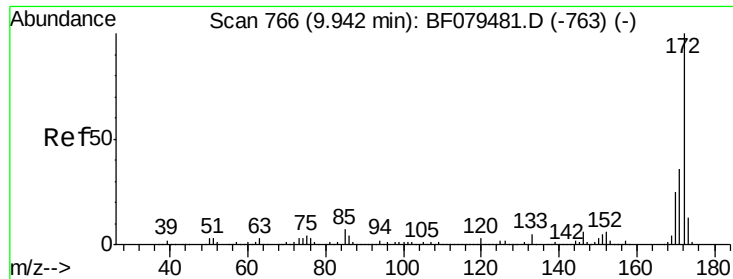
#41  
 2,4,6-Tribromophenol  
 Concen: 101.08 ng  
 RT: 11.67 min Scan# 917  
 Delta R.T. -0.02 min  
 Lab File: BF079587.D  
 Acq: 30 May 2015 6:08

Tgt Ion:330 Resp: 195063  
 Ion Ratio Lower Upper  
 330 100  
 332 95.7 0.0 0.0#  
 141 31.1 0.0 0.0#



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

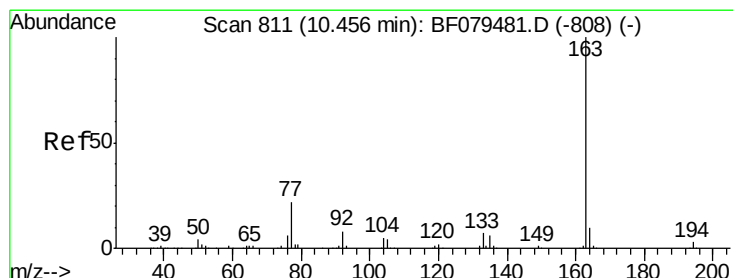
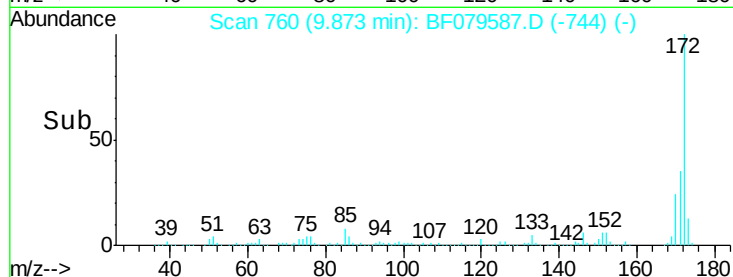
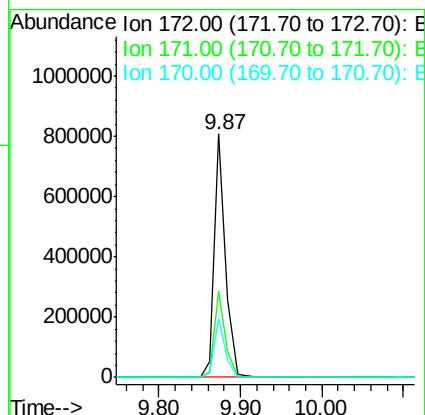
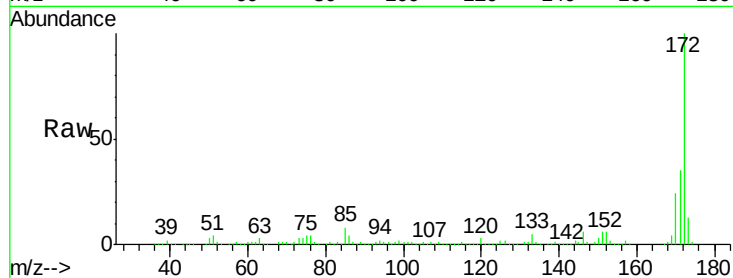




#44  
 2-Fluorobiphenyl  
 Concen: 63.55 ng  
 RT: 9.87 min Scan# 760  
 Delta R.T. -0.01 min  
 Lab File: BF079587.D  
 Acq: 30 May 2015 6:08

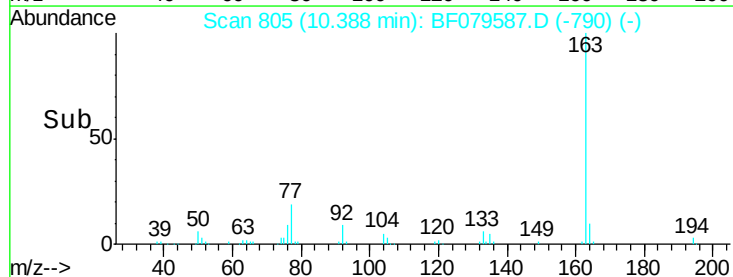
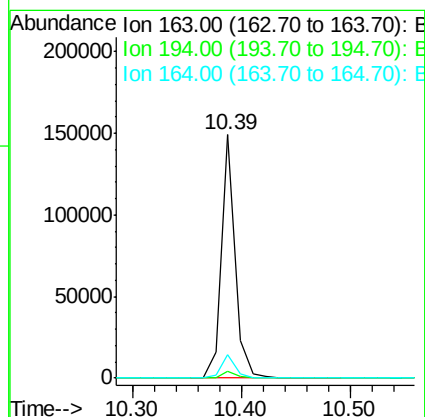
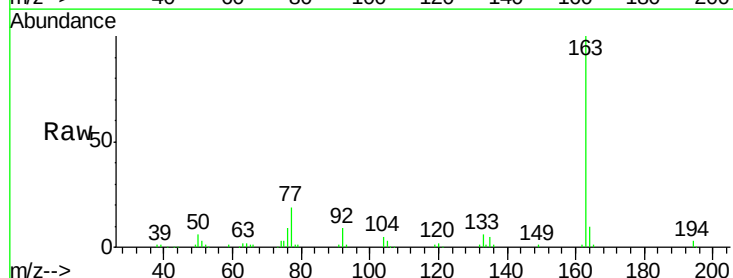
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 BNA\_F  
 ClientSampled :  
 SB-23S

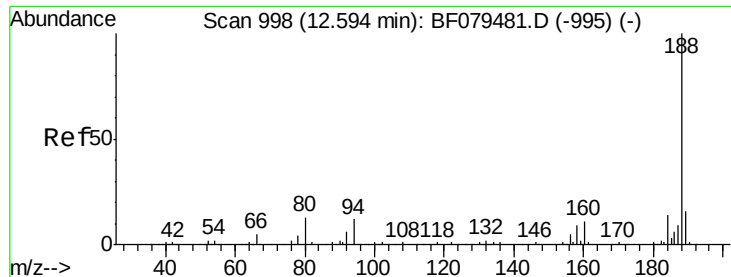
Tgt Ion:172 Resp: 782559  
 Ion Ratio Lower Upper  
 172 100  
 171 35.3 28.5 42.7  
 170 24.3 19.7 29.5



#49  
 Dimethylphthalate  
 Concen: 10.23 ng  
 RT: 10.39 min Scan# 805  
 Delta R.T. -0.02 min  
 Lab File: BF079587.D  
 Acq: 30 May 2015 6:08

Tgt Ion:163 Resp: 132459  
 Ion Ratio Lower Upper  
 163 100  
 194 3.0 2.4 3.6  
 164 9.8 8.2 12.4

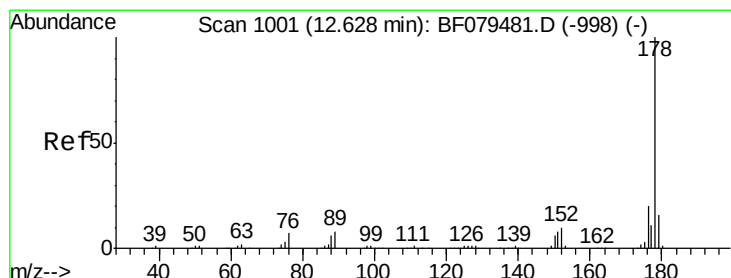
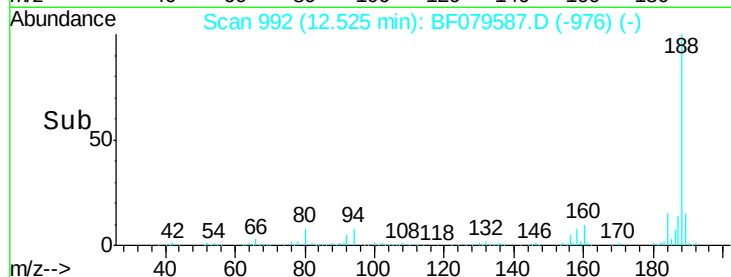
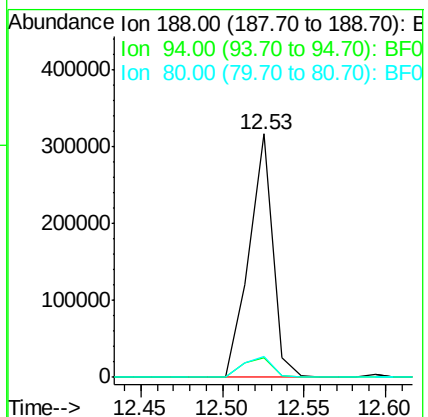
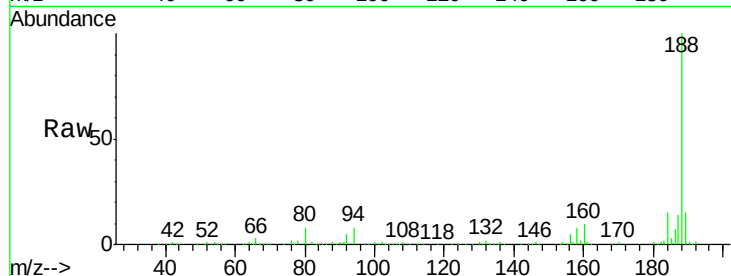




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.53 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: BF079587.D  
Acq: 30 May 2015 6:08

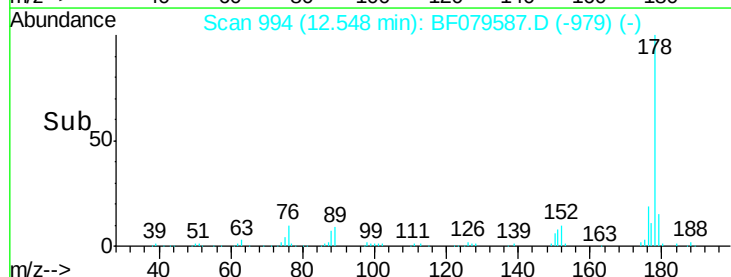
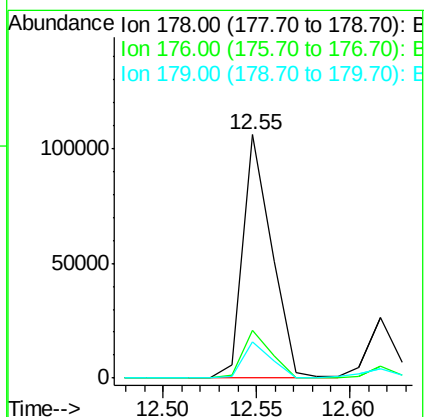
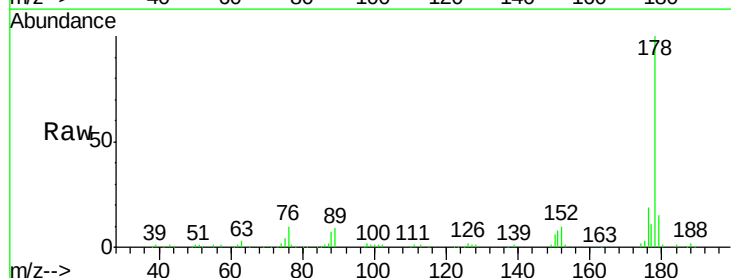
Instrument :  
BNA\_F  
ClientSampleId :  
SB-23S

Tgt Ion:188 Resp: 319407  
Ion Ratio Lower Upper  
188 100  
94 8.2 9.8 14.6#  
80 8.4 10.5 15.7#

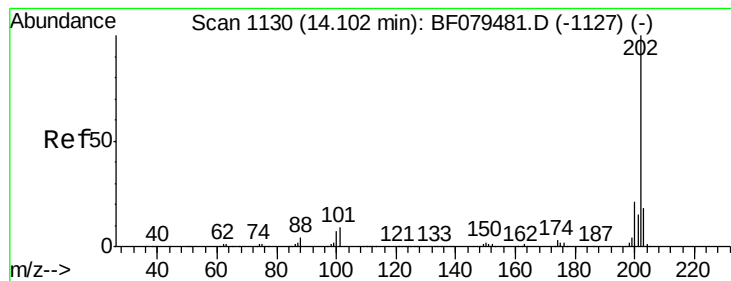


#70  
Phenanthrene  
Concen: 6.53 ng  
RT: 12.55 min Scan# 994  
Delta R.T. -0.02 min  
Lab File: BF079587.D  
Acq: 30 May 2015 6:08

Tgt Ion:178 Resp: 114379  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.7 23.5  
179 14.8 12.4 18.6







#74

Fluoranthene

Concen: 10.47 ng

RT: 14.02 min Scan# 1123

Delta R.T. -0.01 min

Lab File: BF079587.D

Acq: 30 May 2015 6:08

Instrument :

BNA\_F

ClientSampleId :

SB-23S

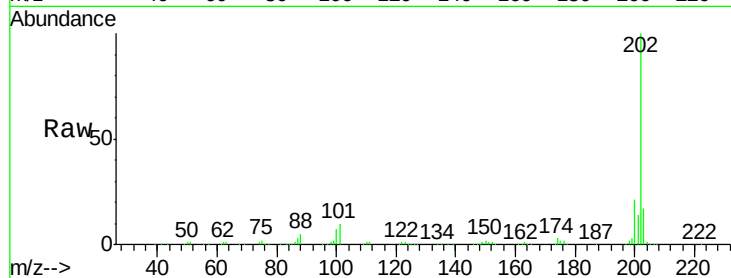
Tgt Ion: 202 Resp: 196755

Ion Ratio Lower Upper

202 100

101 9.7 0.0 29.3

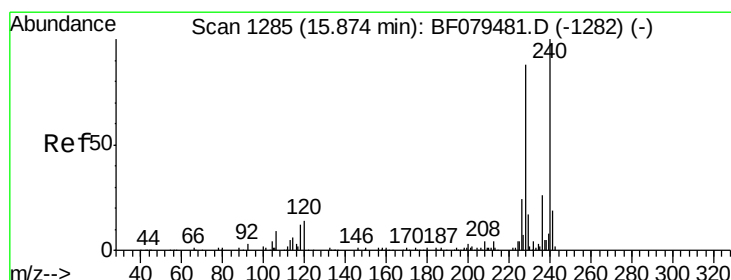
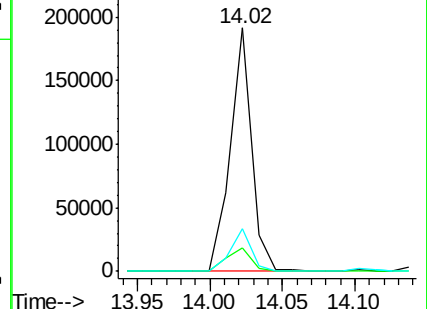
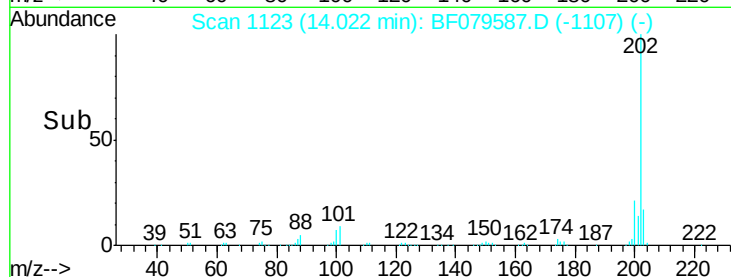
203 17.4 0.0 37.6



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: 15.79 min Scan# 1278

Delta R.T. -0.05 min

Lab File: BF079587.D

Acq: 30 May 2015 6:08

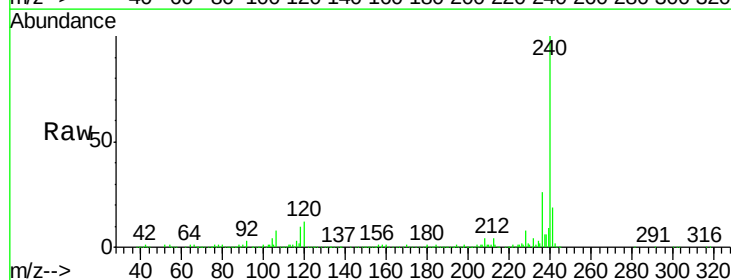
Tgt Ion: 240 Resp: 307051

Ion Ratio Lower Upper

240 100

120 12.2 10.8 16.2

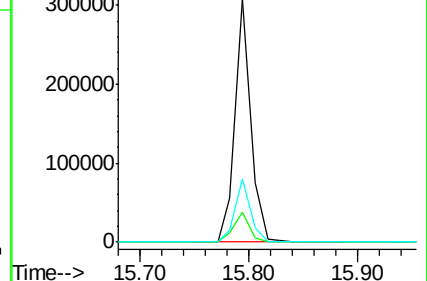
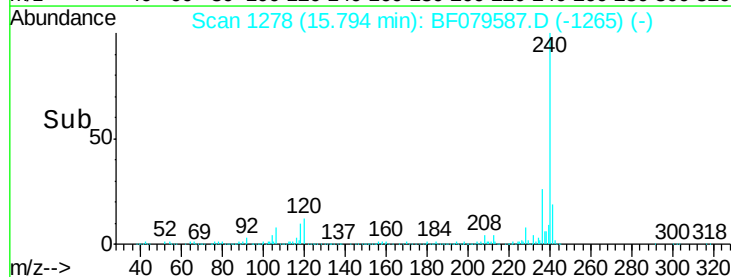
236 26.2 21.0 31.6

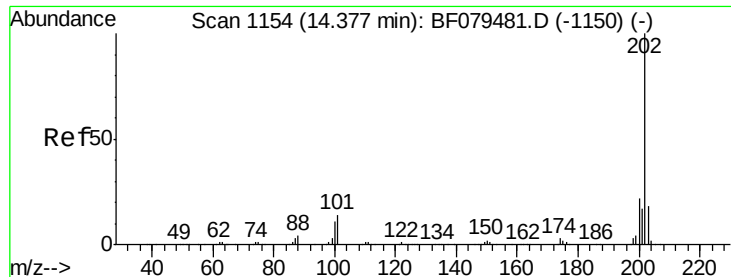


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 9.75 ng

RT: 14.30 min Scan# 1147

Delta R.T. -0.02 min

Lab File: BF079587.D

Acq: 30 May 2015 6:08

Instrument :

BNA\_F

ClientSampleId :

SB-23S

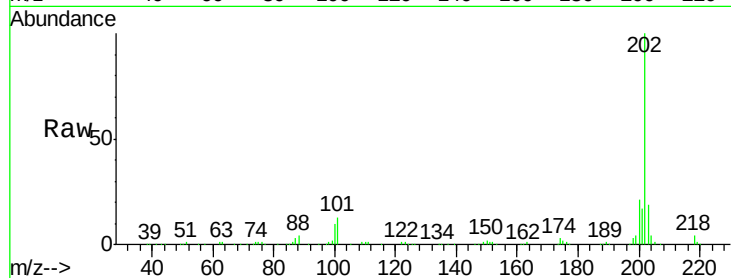
Tgt Ion: 202 Resp: 185541

Ion Ratio Lower Upper

202 100

200 20.8 17.5 26.3

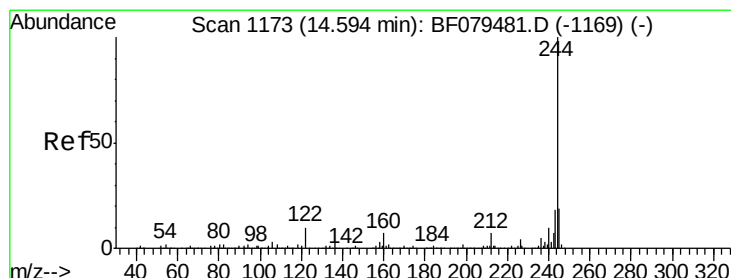
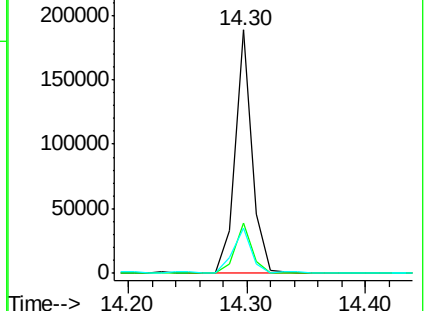
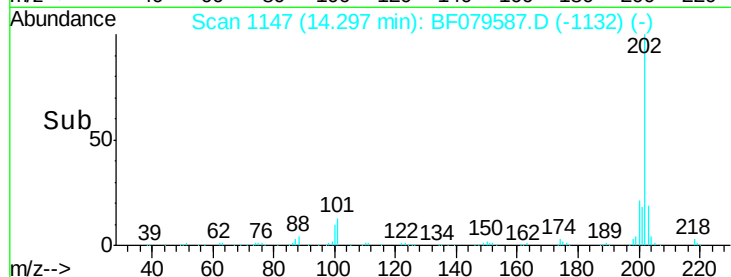
203 18.8 14.4 21.6



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: 57.19 ng

RT: 14.51 min Scan# 1166

Delta R.T. -0.02 min

Lab File: BF079587.D

Acq: 30 May 2015 6:08

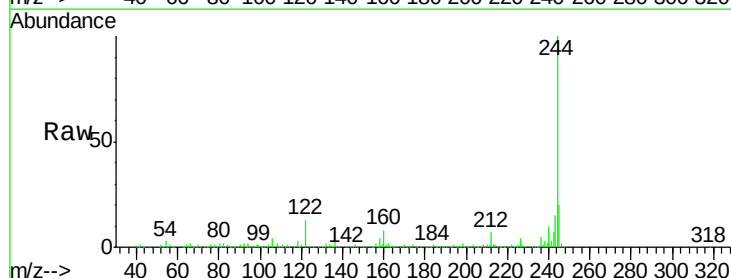
Tgt Ion: 244 Resp: 748246

Ion Ratio Lower Upper

244 100

212 6.9 5.2 7.8

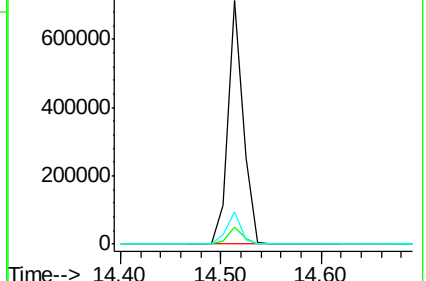
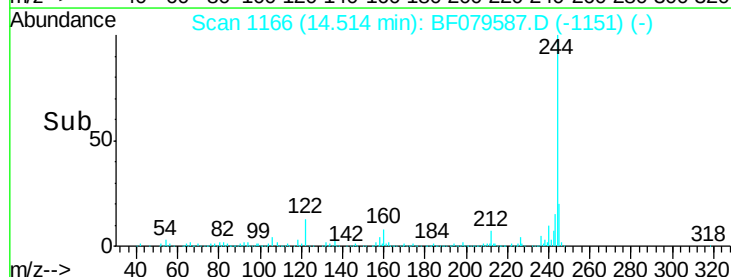
122 13.4 8.0 12.0#

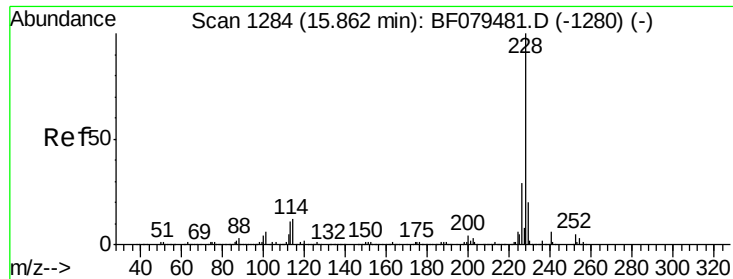


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

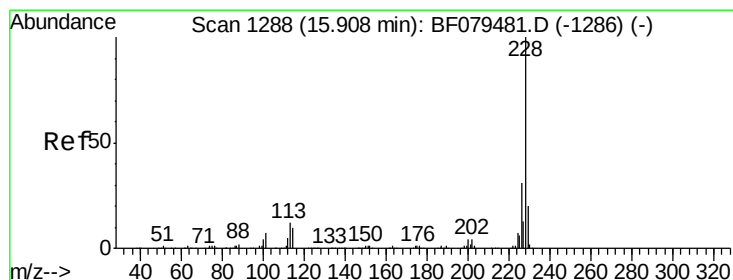
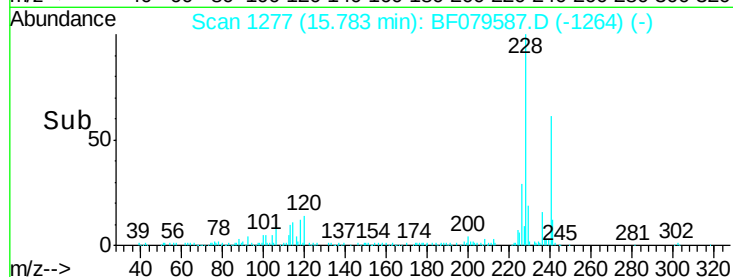
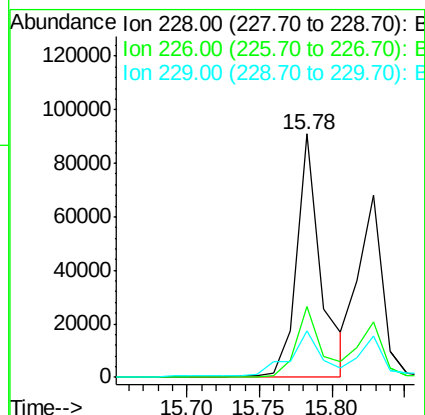
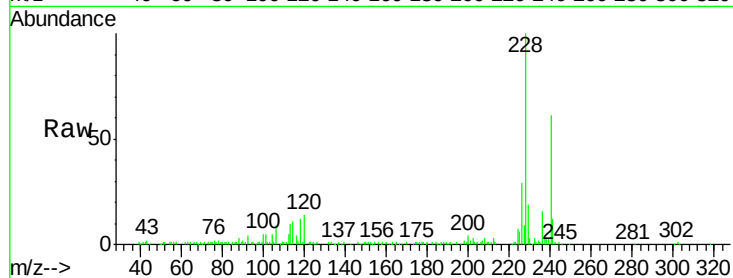




#80  
Benzo(a)anthracene  
Concen: 5.97 ng  
RT: 15.78 min Scan# 1277  
Delta R.T. -0.05 min  
Lab File: BF079587.D  
Acq: 30 May 2015 6:08

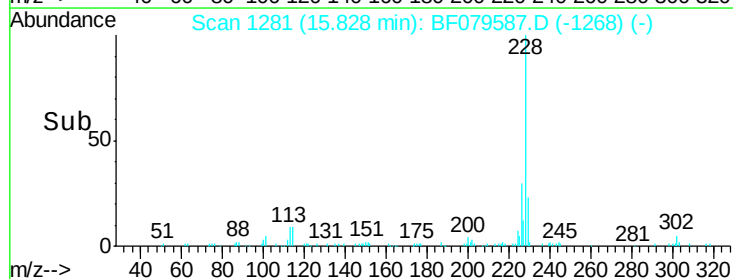
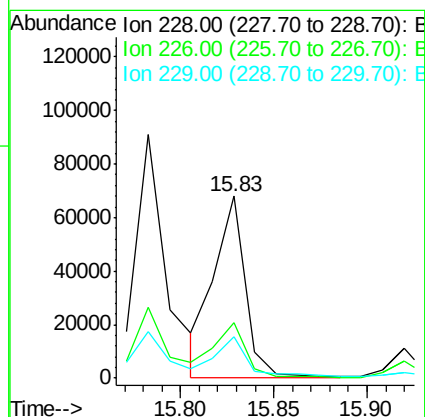
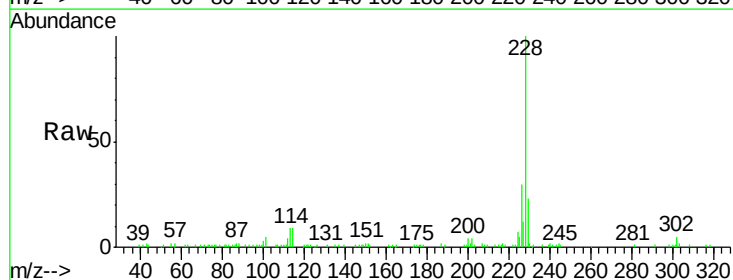
Instrument :  
BNA\_F  
ClientSampleId :  
SB-23S

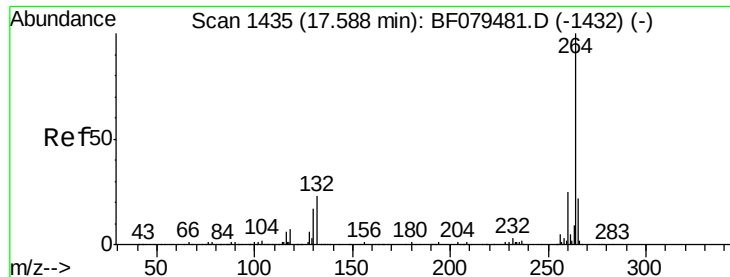
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 228   | Resp: | 105436 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 226      | 29.3  | 22.8  | 34.2   |
| 229      | 19.0  | 15.9  | 23.9   |



#82  
Chrysene  
Concen: 4.71 ng  
RT: 15.83 min Scan# 1281  
Delta R.T. -0.05 min  
Lab File: BF079587.D  
Acq: 30 May 2015 6:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 79085 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 30.4  | 25.0  | 37.4  |
| 229      | 22.7  | 15.9  | 23.9  |



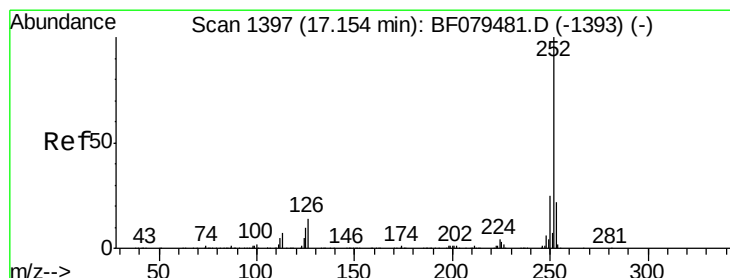
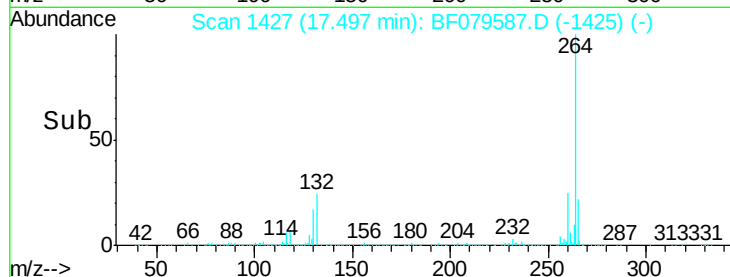
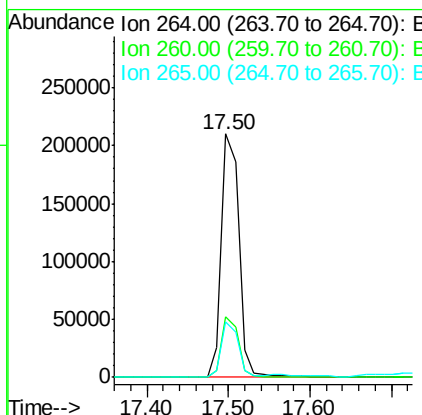
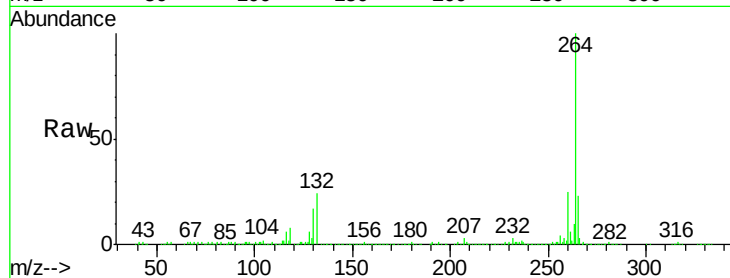


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 17.50 min Scan# 1427  
Delta R.T. -0.17 min  
Lab File: BF079587.D  
Acq: 30 May 2015 6:08

Instrument :  
BNA\_F  
ClientSampled :  
SB-23S

Tgt Ion: 264 Resp: 314468  

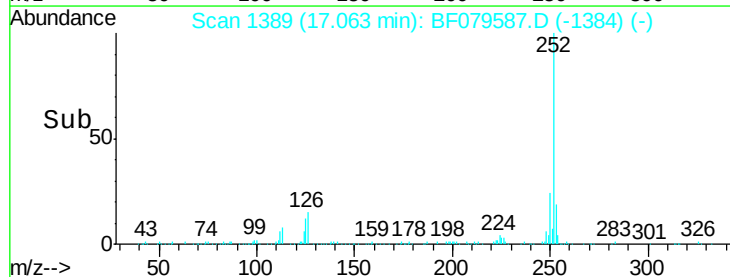
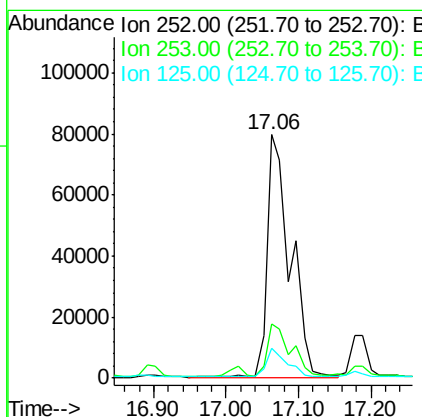
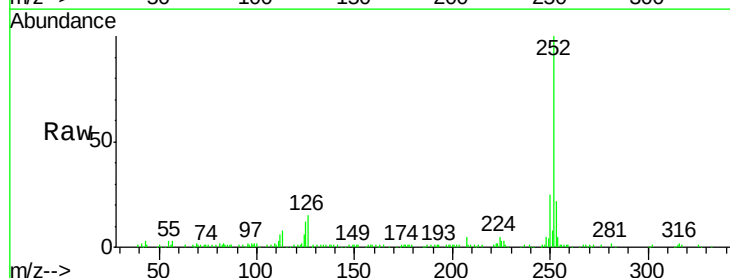
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.8  | 19.8  | 29.8  |
| 265 | 22.6  | 17.8  | 26.6  |

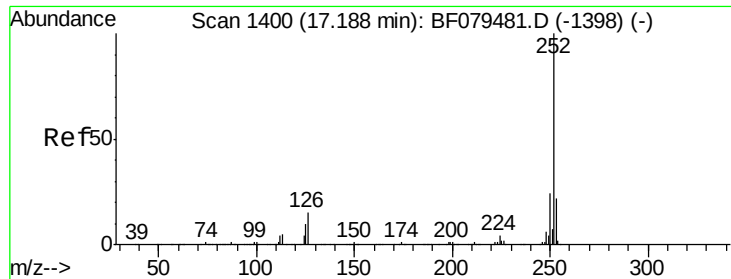


#87  
Benzo(b)fluoranthene  
Concen: 9.92 ng  
RT: 17.06 min Scan# 1389  
Delta R.T. -0.14 min  
Lab File: BF079587.D  
Acq: 30 May 2015 6:08

Tgt Ion: 252 Resp: 177841  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.4  | 17.6  | 26.4  |
| 125 | 12.4  | 7.8   | 11.6  |

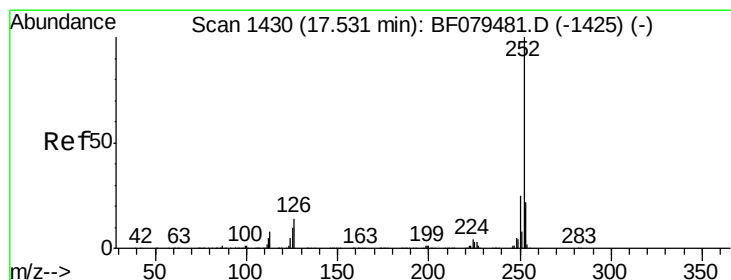
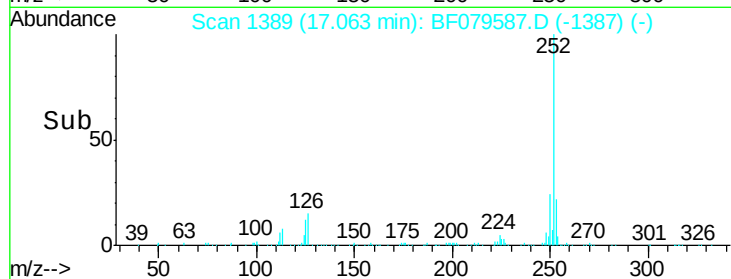
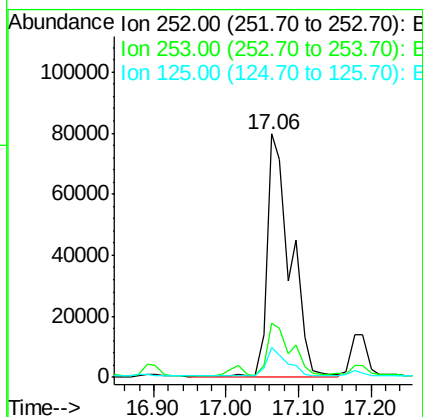
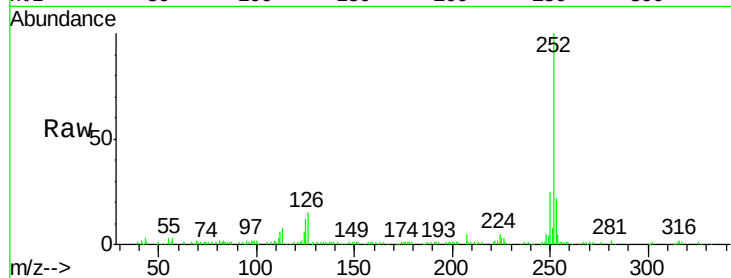




#88  
Benzo(k)fluoranthene  
Concen: 11.09 ng  
RT: 17.06 min Scan# 1389  
Delta R.T. -0.17 min  
Lab File: BF079587.D  
Acq: 30 May 2015 6:08

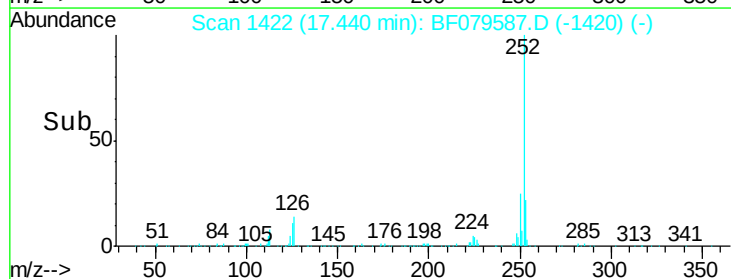
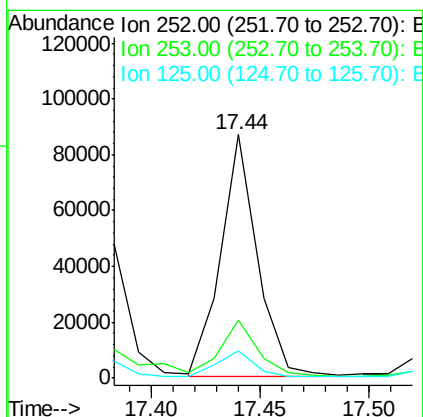
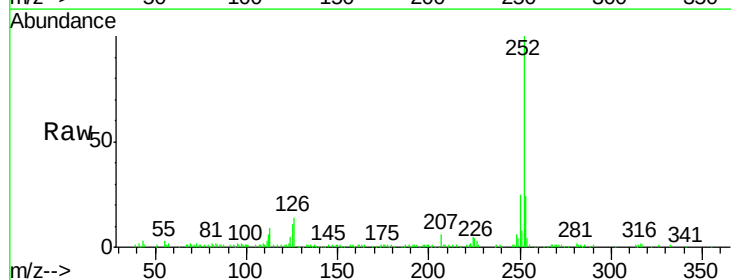
Instrument :  
BNA\_F  
ClientSampleID :  
SB-23S

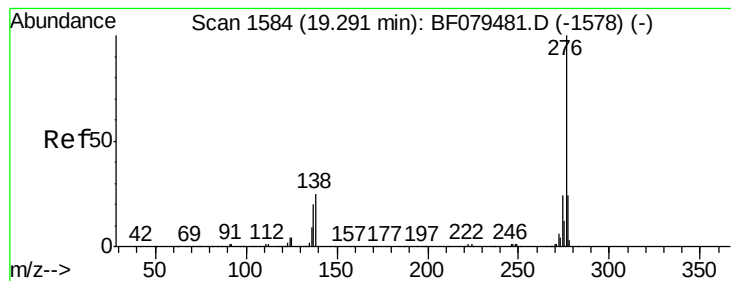
Tgt Ion: 252 Resp: 177841  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.2 25.8  
125 12.4 6.8 10.2#



#89  
Benzo(a)pyrene  
Concen: 4.70 ng  
RT: 17.44 min Scan# 1422  
Delta R.T. -0.17 min  
Lab File: BF079587.D  
Acq: 30 May 2015 6:08

Tgt Ion: 252 Resp: 100979  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.8 26.8  
125 11.3 7.9 11.9





#91

Benzo(g,h,i)perylene

Concen: 2.34 ng

RT: 19.17 min Scan# 1573

Delta R.T. -0.24 min

Lab File: BF079587.D

Acq: 30 May 2015 6:08

Instrument :

BNA\_F

ClientSampleId :

SB-23S

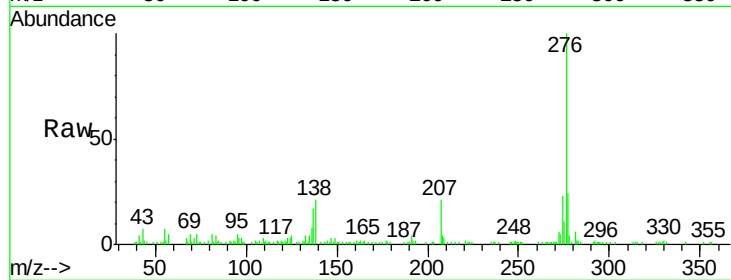
Tgt Ion: 276 Resp: 85892

Ion Ratio Lower Upper

276 100

277 24.1 19.1 28.7

138 20.6 20.1 30.1



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

