

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF053115\  
 Data File : BF079643.D  
 Acq On : 31 May 2015 20:05  
 Operator : TP/IZ  
 Sample : G2408-17  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-18D

Manual Integrations  
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 6/1/2015 8:43:12 PM

Quant Time: Jun 01 04:50:02 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 01 04:06:42 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.90  | 152  | 62068    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.48  | 136  | 255834   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.65 | 164  | 128824   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 12.48 | 188  | 248989   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 15.76 | 240  | 262195   | 20.00  | ng    | 0.01     |
| 86) Perylene-d12            | 17.51 | 264  | 281636   | 20.00  | ng    | 0.07     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.18  | 112  | 347653   | 97.15  | ng    | 0.01     |
| 7) Phenol-d6                | 6.51  | 99   | 471624   | 103.40 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.61  | 82   | 244534   | 55.25  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.63 | 330  | 143320   | 101.29 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.83  | 172  | 402267   | 44.55  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.48 | 244  | 447674   | 40.07  | ng    | 0.01     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.51  | 128  | 38050    | 3.10   | ng    | 99       |
| 37) 2-Methylnaphthalene     | 9.37  | 142  | 24225    | 2.84   | ng    | 100      |
| 49) Dimethylphthalate       | 10.34 | 163  | 82147    | 8.65   | ng    | 99       |
| 57) Fluorene                | 11.33 | 166  | 35907    | 3.92   | ng    | 95       |
| 70) Phenanthrene            | 12.51 | 178  | 182842   | 13.39  | ng    | 99       |
| 71) Anthracene              | 12.57 | 178  | 54657    | 3.94   | ng    | 98       |
| 74) Fluoranthene            | 13.98 | 202  | 115845   | 7.91   | ng    | 95       |
| 77) Pyrene                  | 14.26 | 202  | 104953   | 6.46   | ng    | 99       |
| 80) Benzo(a)anthracene      | 15.75 | 228  | 64411m   | 4.27   | ng    |          |
| 82) Chrysene                | 15.79 | 228  | 46985    | 3.28   | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 17.06 | 252  | 50608m   | 3.15   | ng    |          |

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

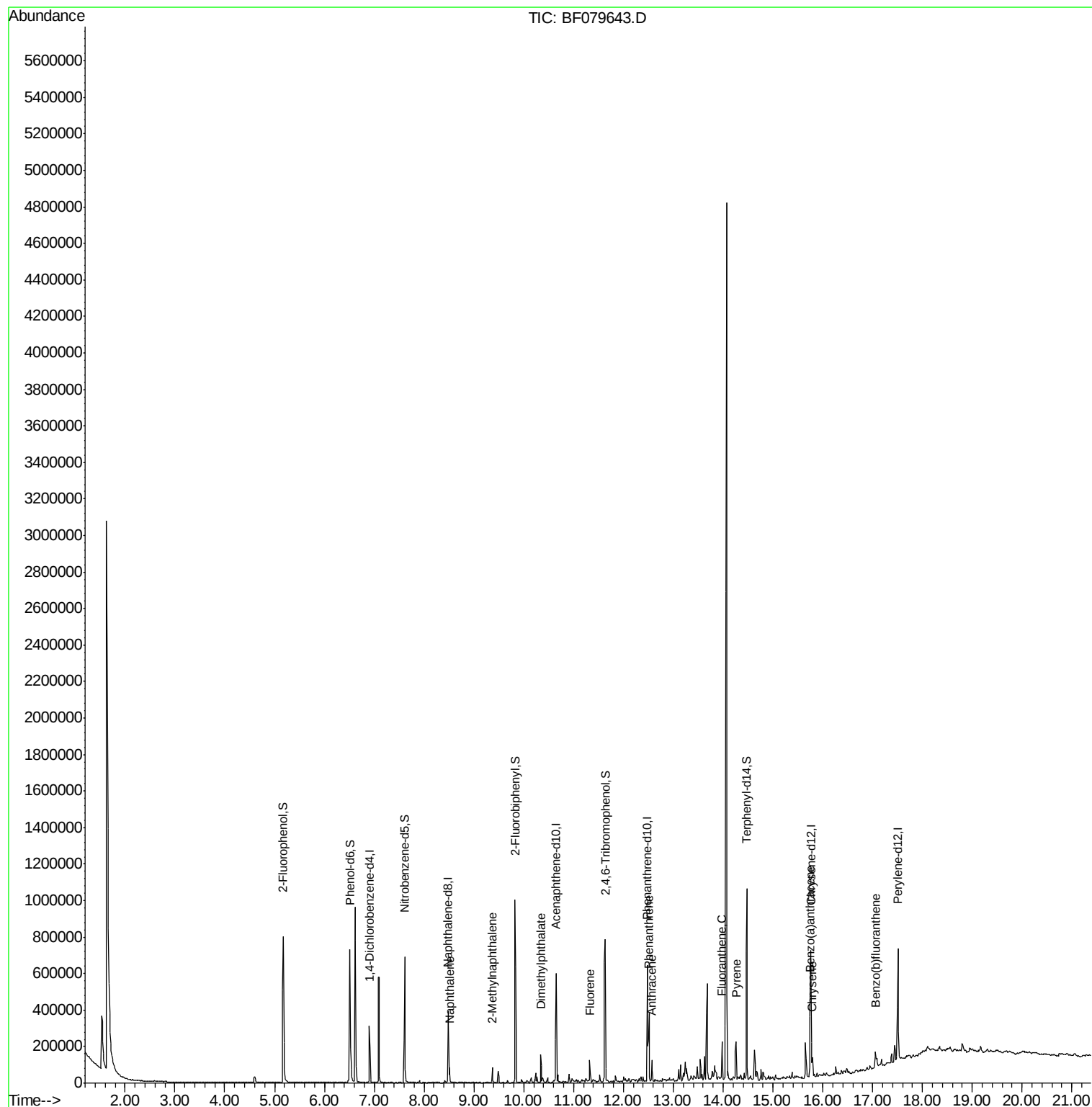
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF053115\  
Data File : BF079643.D  
Acq On : 31 May 2015 20:05  
Operator : TP/IZ  
Sample : G2408-17  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

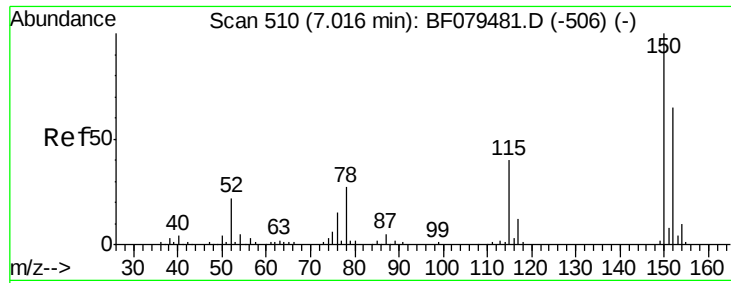
Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Time: Jun 01 04:50:02 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 01 04:06:42 2015  
Response via : Initial Calibration





#1

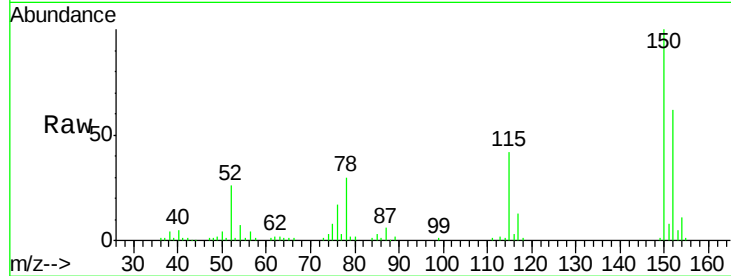
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.90 min Scan# 500  
Delta R.T. 0.00 min  
Lab File: BF079643.D  
Acq: 31 May 2015 20:05

Instrument :  
BNA\_F  
ClientSampleId :  
SB-18D

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.6 | 124.0 | 186.0 |
| 115     | 67.5  | 49.6  | 74.4  |

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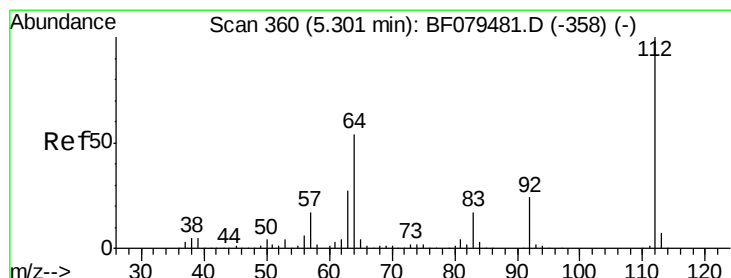
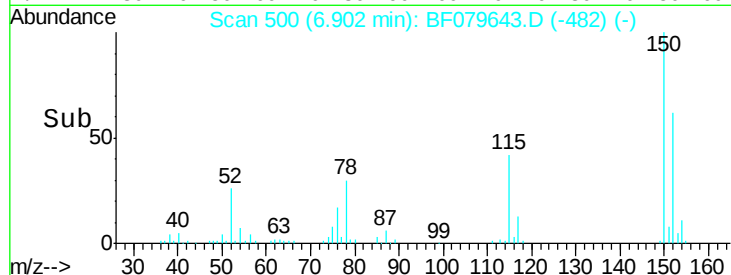
Abundance

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

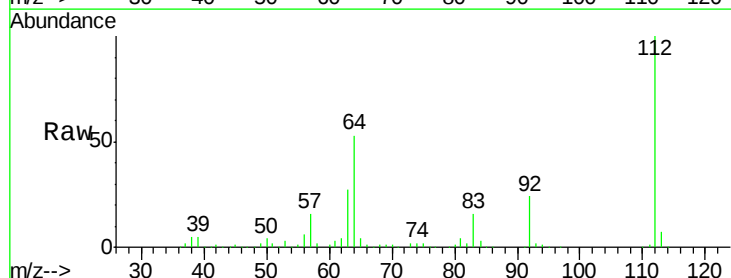
Time-->



#5

2-Fluorophenol  
Concen: 97.15 ng  
RT: 5.18 min Scan# 349  
Delta R.T. 0.01 min  
Lab File: BF079643.D  
Acq: 31 May 2015 20:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.8  | 43.5  | 65.3  |
| 63      | 26.8  | 21.8  | 32.8  |



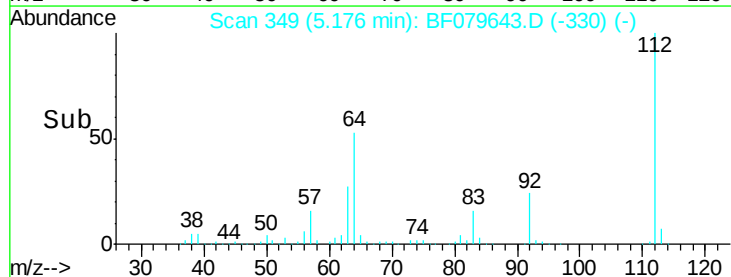
Abundance

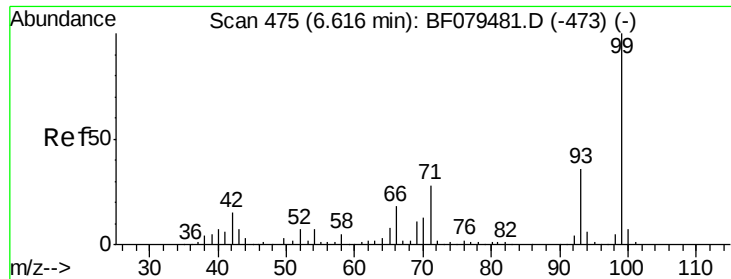
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Time-->





#7

Phenol-d6

Concen: 103.40 ng

RT: 6.51 min Scan# 466

Delta R.T. 0.01 min

Lab File: BF079643.D

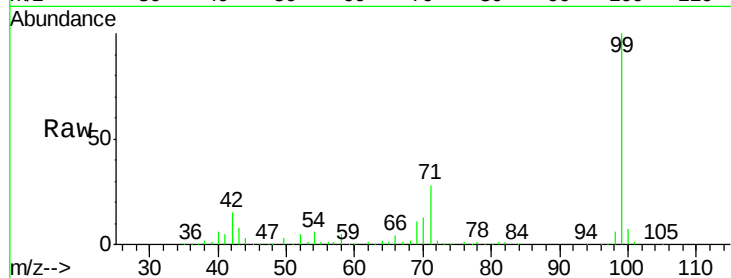
Acq: 31 May 2015 20:05

Instrument :

BNA\_F

ClientSampleId :

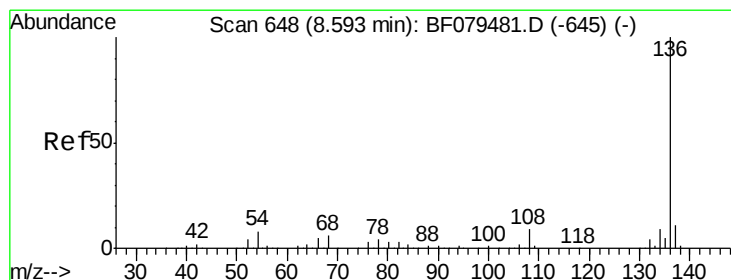
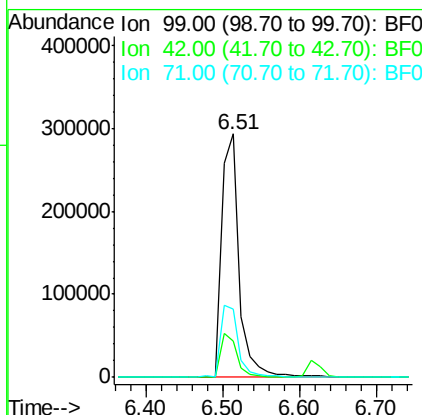
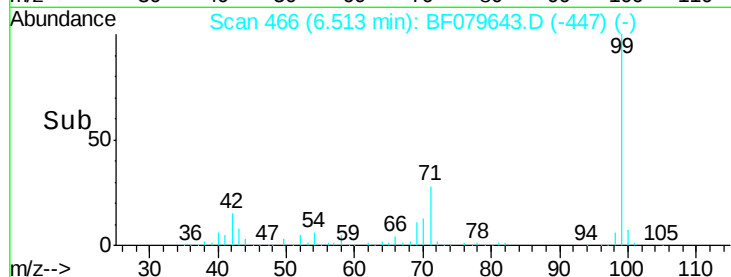
SB-18D



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 99      | 100   | 471624 |       |       |
| 42      | 14.8  | 11.9   | 17.9  |       |
| 71      | 27.9  | 22.1   | 33.1  |       |

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#21

Naphthalene-d8

Concen: 20.00 ng

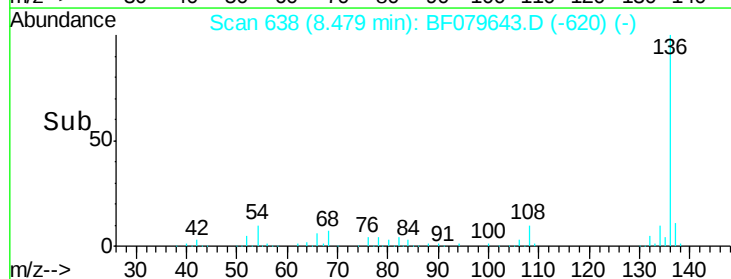
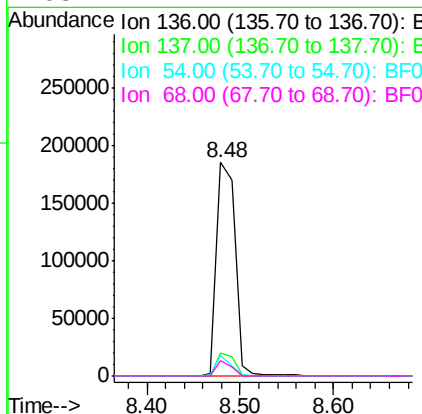
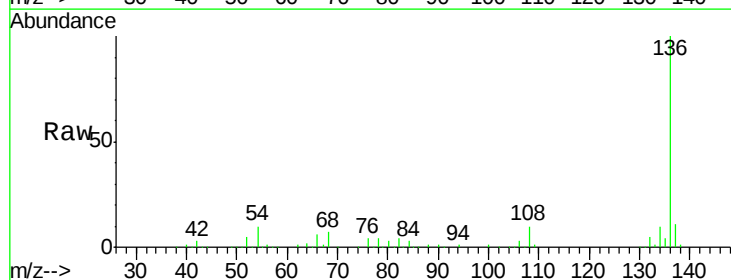
RT: 8.48 min Scan# 638

Delta R.T. 0.00 min

Lab File: BF079643.D

Acq: 31 May 2015 20:05

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 255834 |       |       |
| 137     | 11.0  | 8.5    | 12.7  |       |
| 54      | 9.6   | 6.6    | 9.8   |       |
| 68      | 7.2   | 4.7    | 7.1   |       |





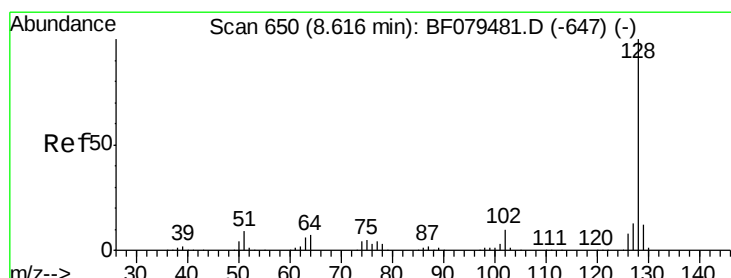
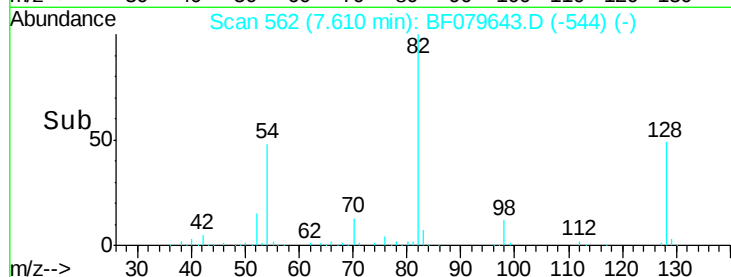
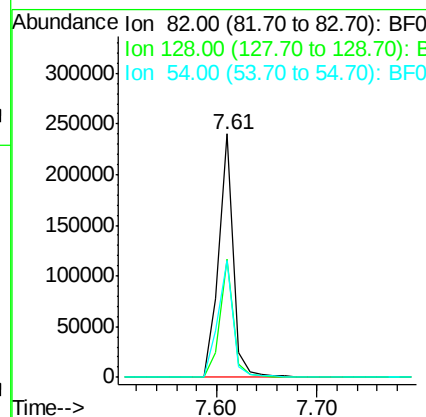
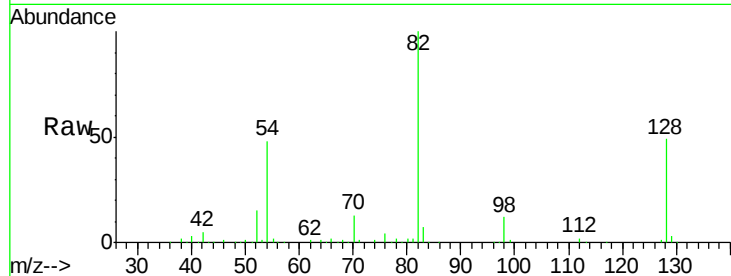
#23  
 Nitrobenzene-d5  
 Concen: 55.25 ng  
 RT: 7.61 min Scan# 562  
 Delta R.T. 0.00 min  
 Lab File: BF079643.D  
 Acq: 31 May 2015 20:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
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| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 244534 |       |       |
| 128     | 48.5  | 30.8   | 46.2# |       |
| 54      | 47.9  | 42.8   | 64.2  |       |

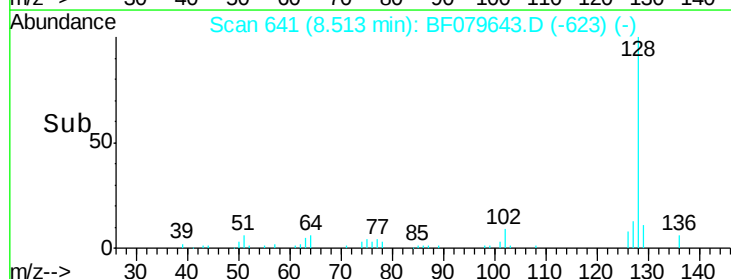
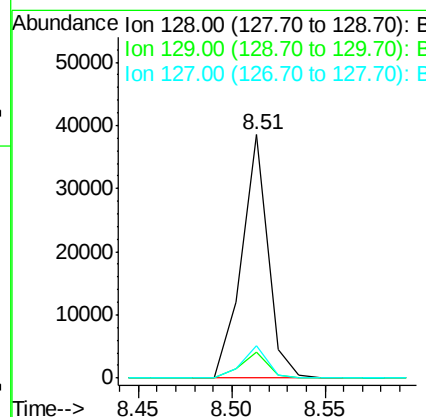
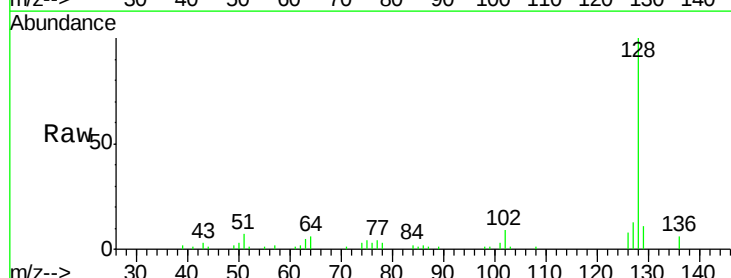
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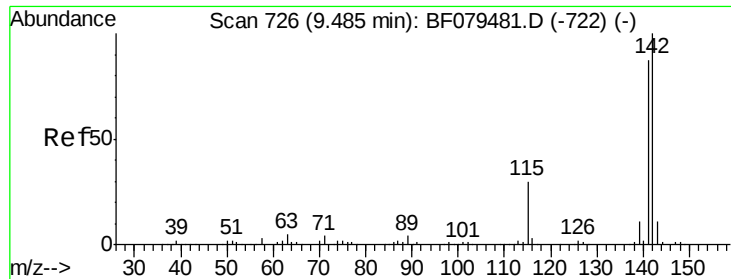
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#31  
 Naphthalene  
 Concen: 3.10 ng  
 RT: 8.51 min Scan# 641  
 Delta R.T. 0.00 min  
 Lab File: BF079643.D  
 Acq: 31 May 2015 20:05

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 128     | 100   | 38050 |       |       |
| 129     | 10.9  | 9.3   | 13.9  |       |
| 127     | 13.4  | 10.6  | 15.8  |       |





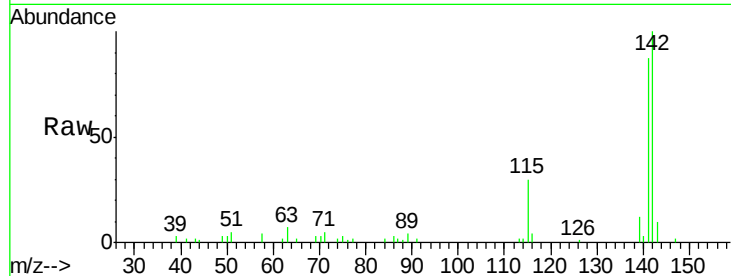
#37  
 2-Methylnaphthalene  
 Concen: 2.84 ng  
 RT: 9.37 min Scan# 716  
 Delta R.T. 0.00 min  
 Lab File: BF079643.D  
 Acq: 31 May 2015 20:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-18D

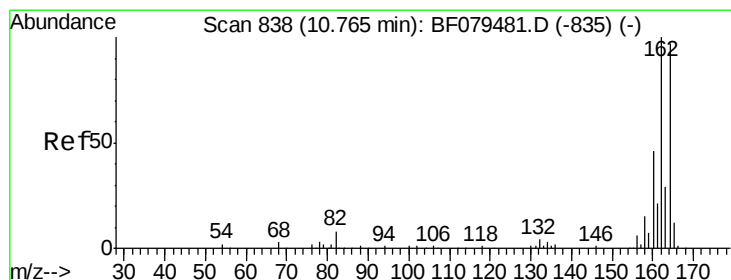
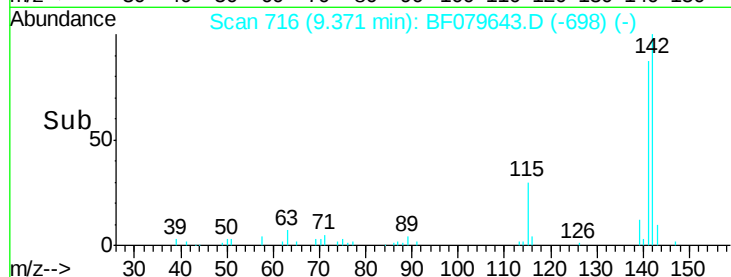
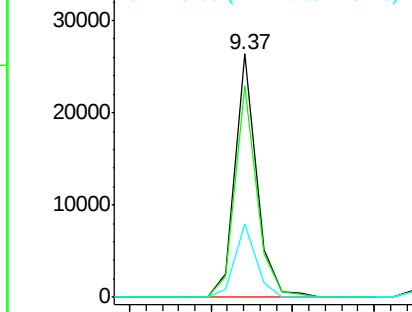
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.1  | 69.5  | 104.3 |
| 115     | 30.4  | 23.8  | 35.6  |

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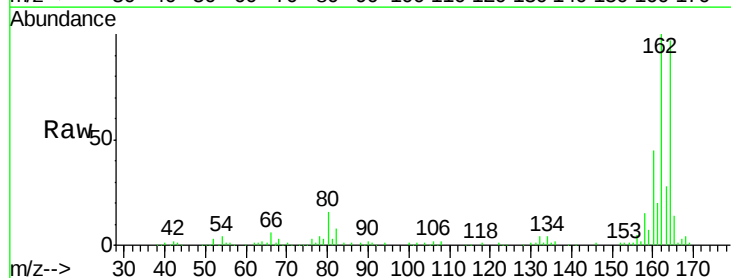


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

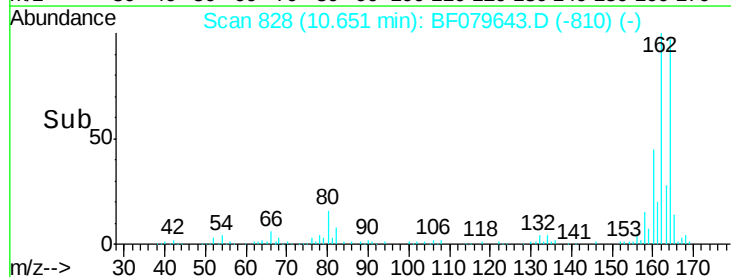
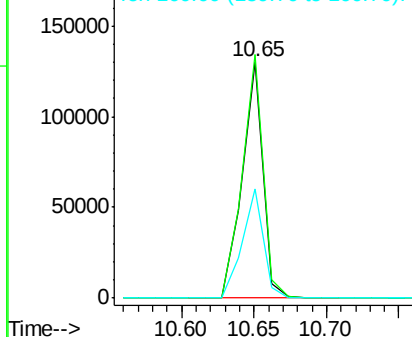


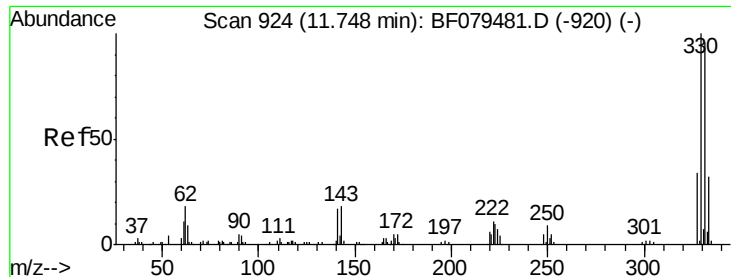
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.65 min Scan# 828  
 Delta R.T. 0.00 min  
 Lab File: BF079643.D  
 Acq: 31 May 2015 20:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.0 | 82.6  | 124.0 |
| 160     | 46.1  | 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





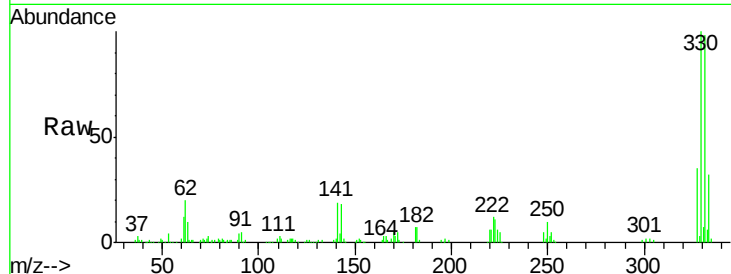
#41  
 2,4,6-Tribromophenol  
 Concen: 101.29 ng  
 RT: 11.63 min Scan# 914  
 Delta R.T. 0.00 min  
 Lab File: BF079643.D  
 Acq: 31 May 2015 20:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
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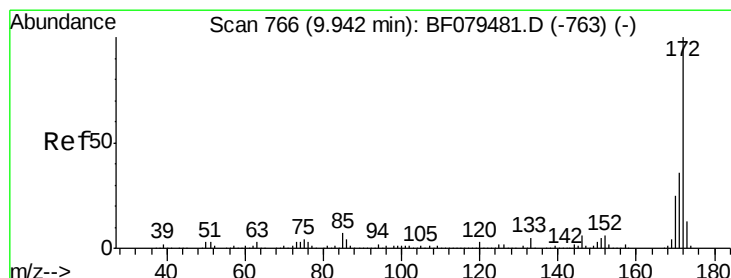
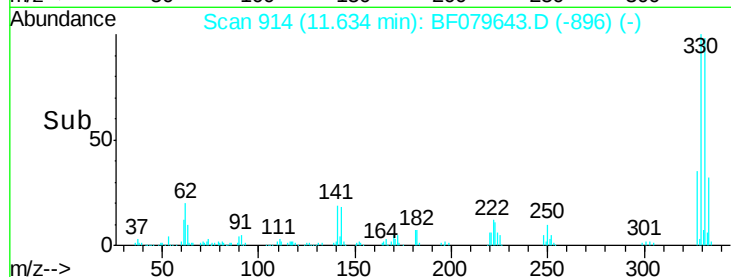
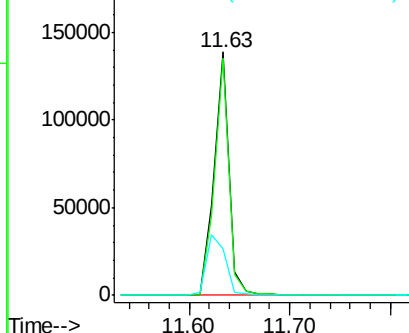
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 330     | 100   |            |            |
| 332     | 94.7  | 0.0        | 0.0#       |
| 141     | 31.5  | 0.0        | 0.0#       |

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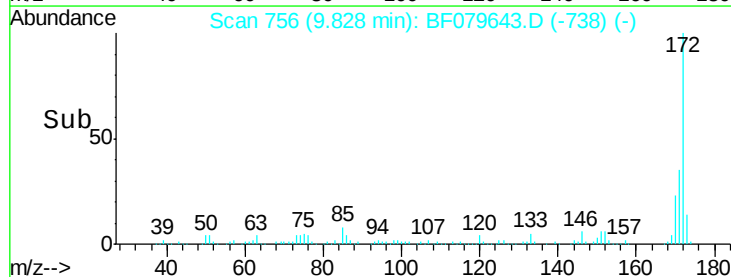
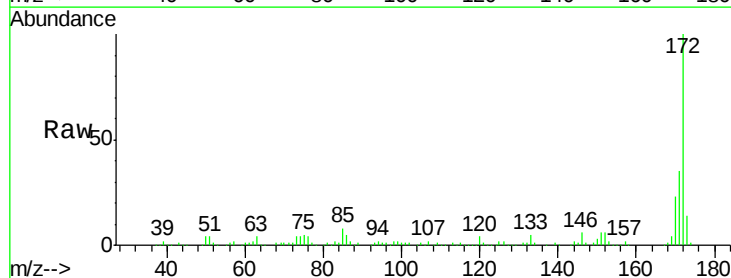
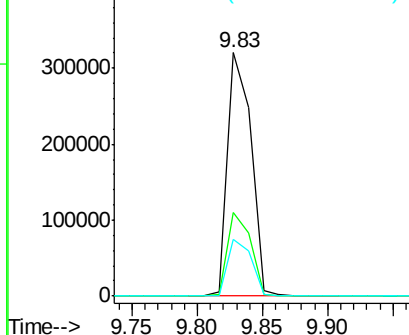
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

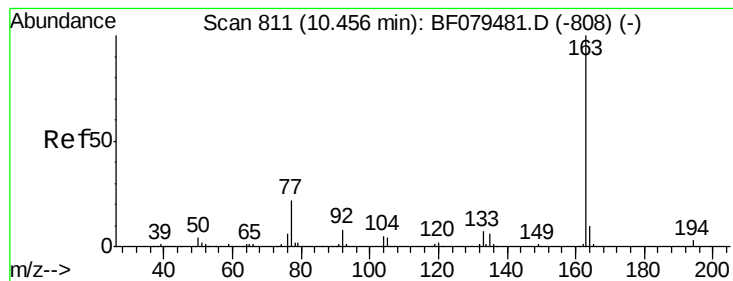


#44  
 2-Fluorobiphenyl  
 Concen: 44.55 ng  
 RT: 9.83 min Scan# 756  
 Delta R.T. 0.00 min  
 Lab File: BF079643.D  
 Acq: 31 May 2015 20:05

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 172     | 100   |            |            |
| 171     | 34.6  | 28.5       | 42.7       |
| 170     | 23.2  | 19.7       | 29.5       |

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





#49

Dimethylphthalate

Concen: 8.65 ng

RT: 10.34 min Scan# 801

Delta R.T. -0.01 min

Lab File: BF079643.D

Acq: 31 May 2015 20:05

Instrument :

BNA\_F

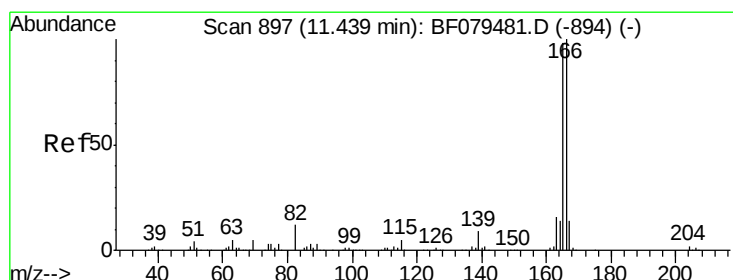
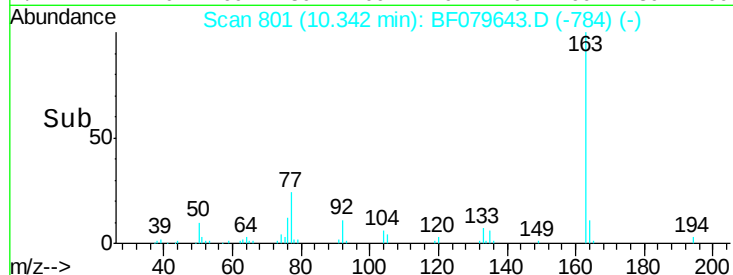
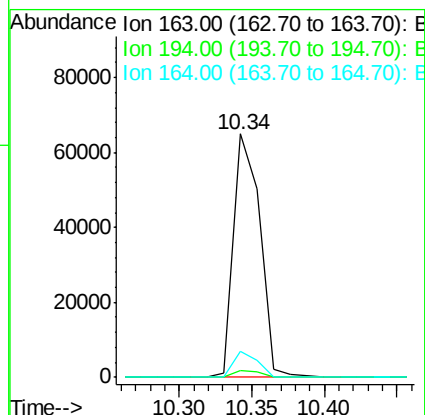
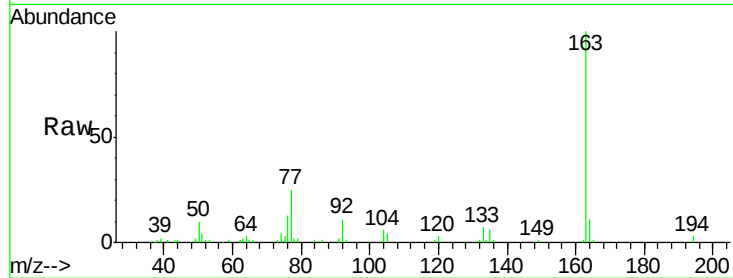
ClientSampleId :

SB-18D

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 82147 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 2.8   | 2.4   | 3.6   |
| 164       | 10.6  | 8.2   | 12.4  |

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#57

Fluorene

Concen: 3.92 ng

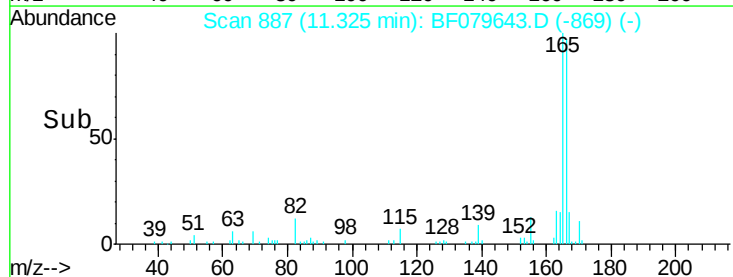
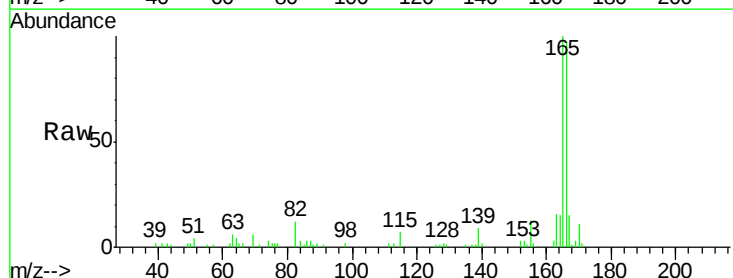
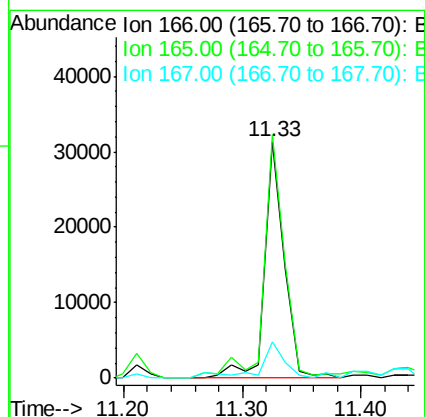
RT: 11.33 min Scan# 887

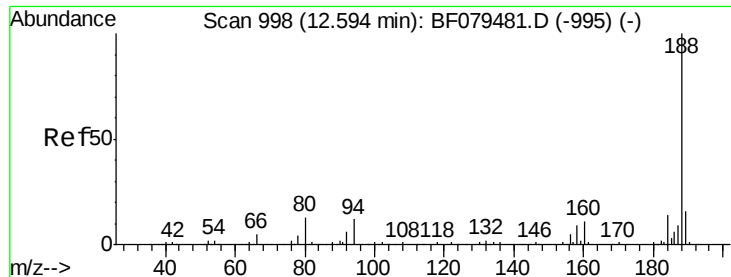
Delta R.T. 0.00 min

Lab File: BF079643.D

Acq: 31 May 2015 20:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 35907 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 103.0 | 78.6  | 117.8 |
| 167       | 15.3  | 10.8  | 16.2  |





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.48 min Scan# 988

Delta R.T. 0.00 min

Lab File: BF079643.D

Acq: 31 May 2015 20:05

Instrument :

BNA\_F

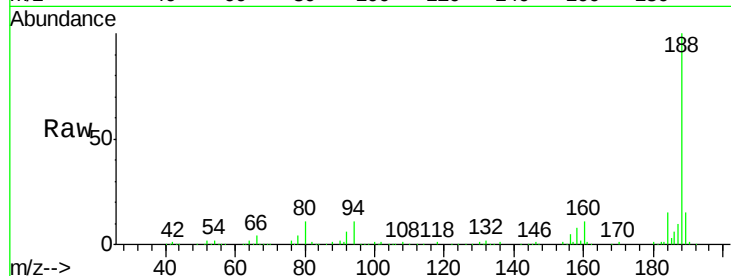
ClientSampleId :

SB-18D

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 248989 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 10.8  | 9.8   | 14.6   |
| 80        | 11.1  | 10.5  | 15.7   |

Manual Integrations  
APPROVED

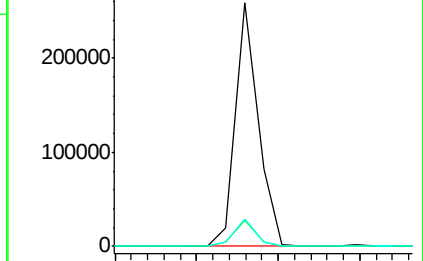
apatel  
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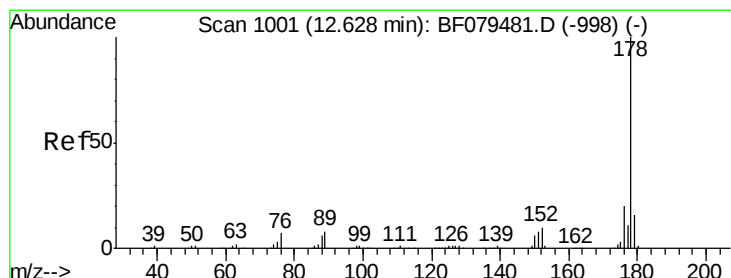
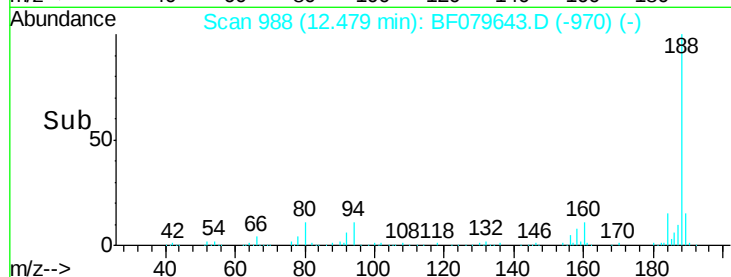
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



Time--> 12.40 12.45 12.50 12.55



#70

Phenanthrene

Concen: 13.39 ng

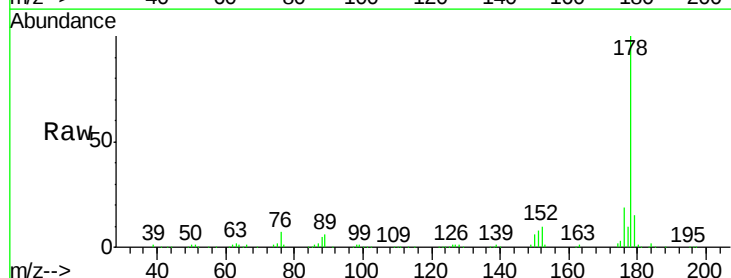
RT: 12.51 min Scan# 991

Delta R.T. 0.00 min

Lab File: BF079643.D

Acq: 31 May 2015 20:05

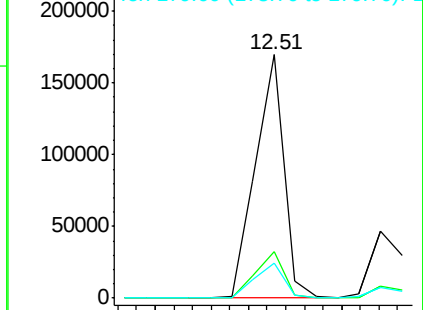
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 182842 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.3  | 15.7  | 23.5   |
| 179       | 14.5  | 12.4  | 18.6   |



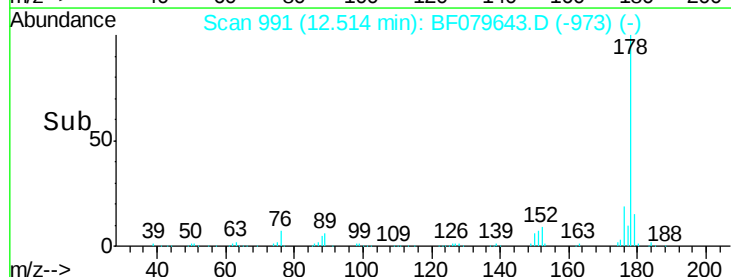
Abundance Ion 178.00 (177.70 to 178.70): E

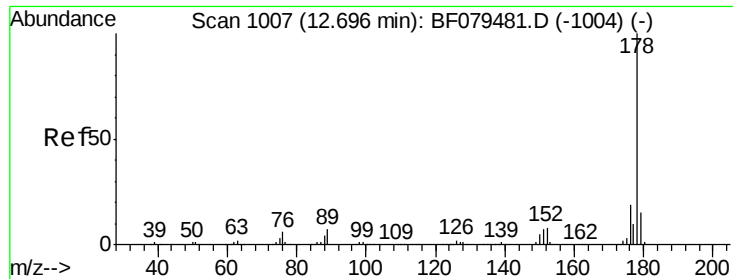
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 12.45 12.50 12.55





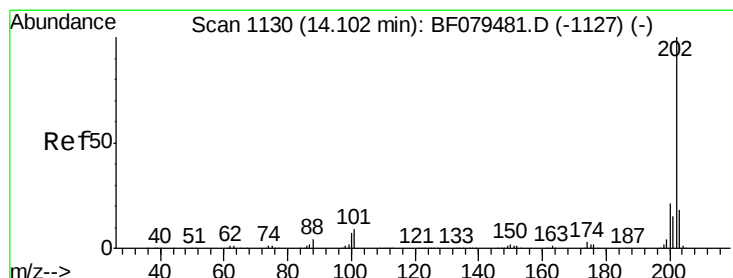
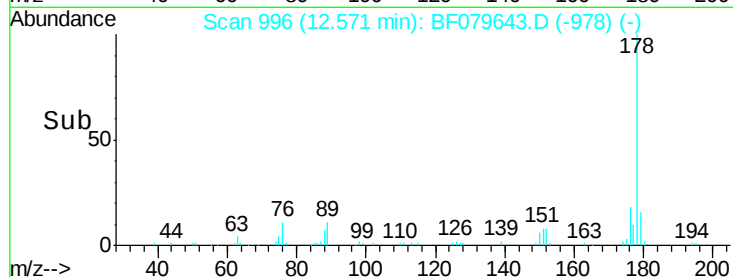
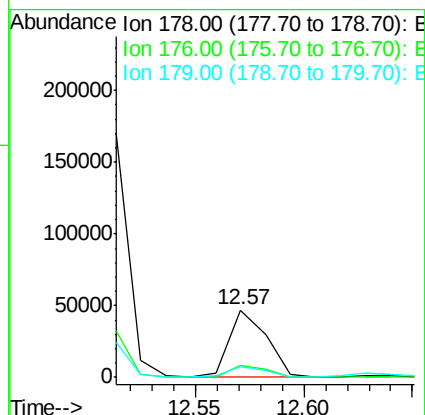
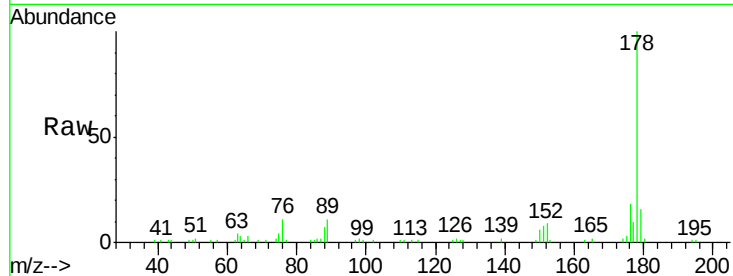
#71  
 Anthracene  
 Concen: 3.94 ng  
 RT: 12.57 min Scan# 996  
 Delta R.T. 0.00 min  
 Lab File: BF079643.D  
 Acq: 31 May 2015 20:05

Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-18D

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.3  | 15.3  | 22.9  |
| 179     | 16.2  | 12.2  | 18.4  |

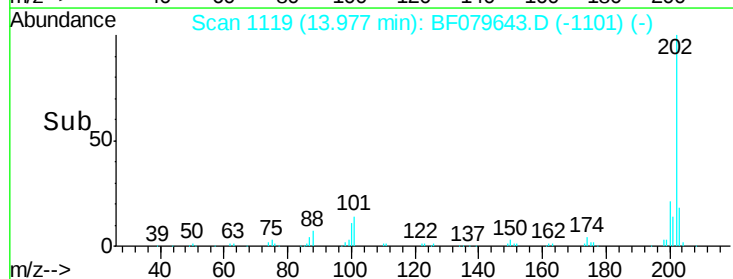
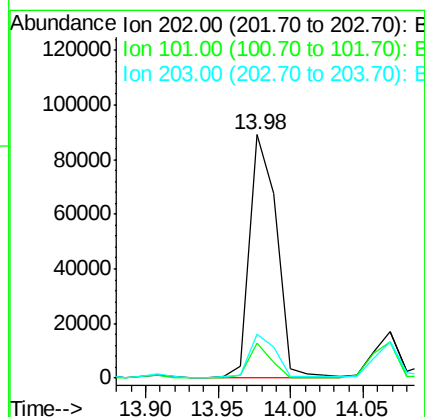
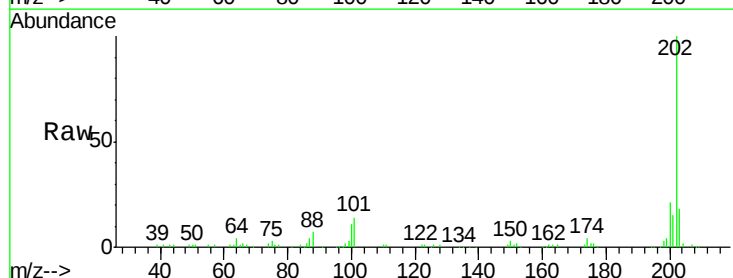
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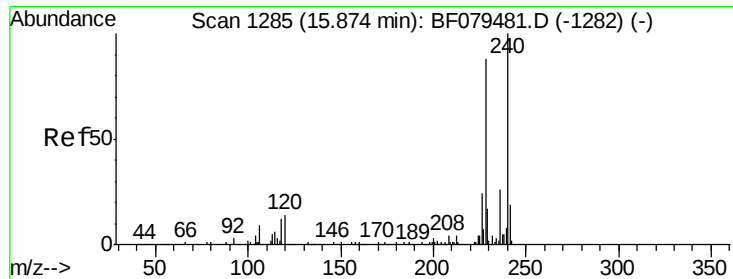
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#74  
 Fluoranthene  
 Concen: 7.91 ng  
 RT: 13.98 min Scan# 1119  
 Delta R.T. 0.00 min  
 Lab File: BF079643.D  
 Acq: 31 May 2015 20:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.1  | 0.0   | 29.3  |
| 203     | 18.1  | 0.0   | 37.6  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.76 min Scan# 1275

Delta R.T. 0.01 min

Lab File: BF079643.D

Acq: 31 May 2015 20:05

Instrument :

BNA\_F

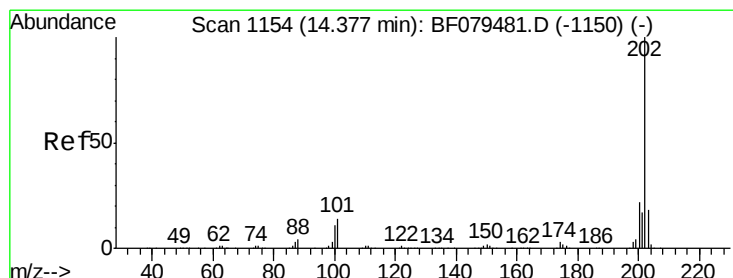
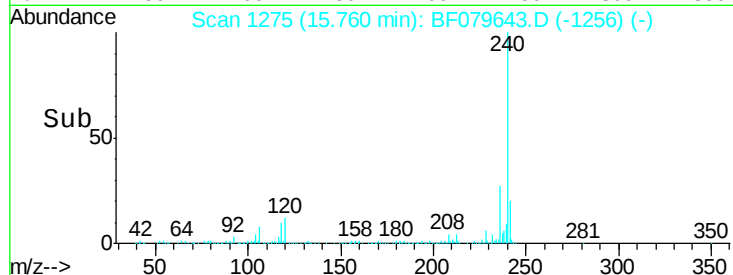
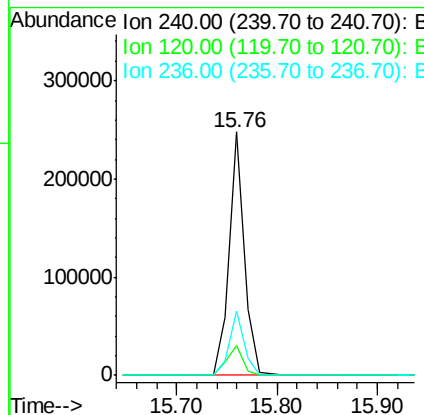
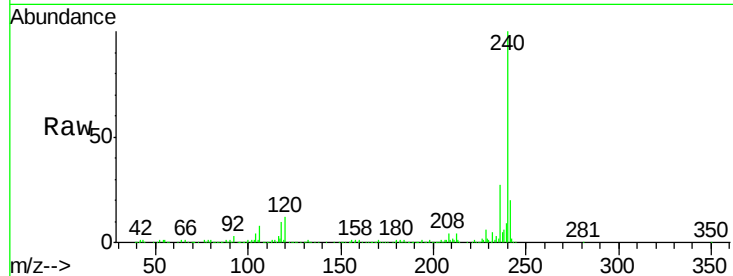
ClientSampleId :

SB-18D

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 240  | Resp: | 262195 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 12.1 | 10.8  | 16.2   |
| 236       | 26.6 | 21.0  | 31.6   |

Manual Integrations  
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#77

Pyrene

Concen: 6.46 ng

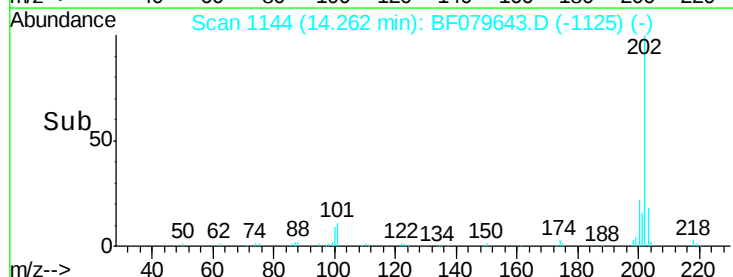
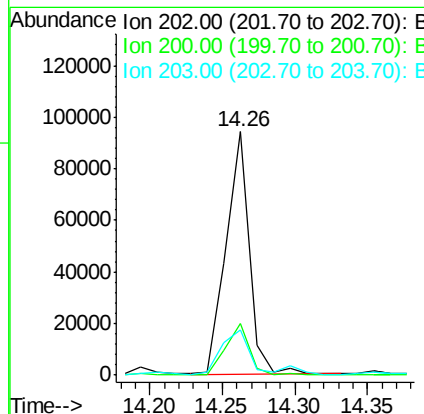
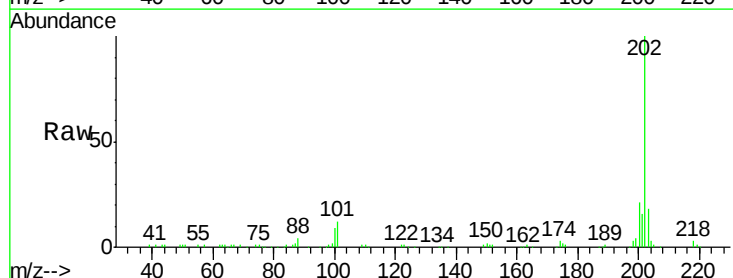
RT: 14.26 min Scan# 1144

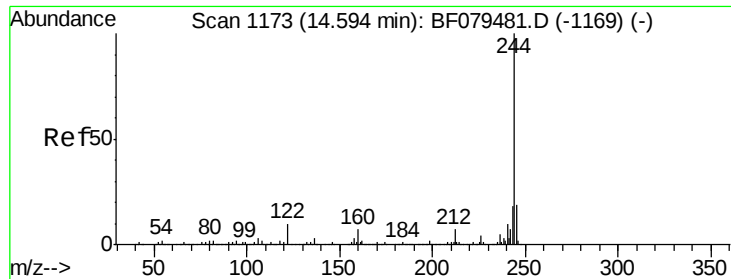
Delta R.T. 0.01 min

Lab File: BF079643.D

Acq: 31 May 2015 20:05

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 202  | Resp: | 104953 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 21.4 | 17.5  | 26.3   |
| 203       | 18.4 | 14.4  | 21.6   |





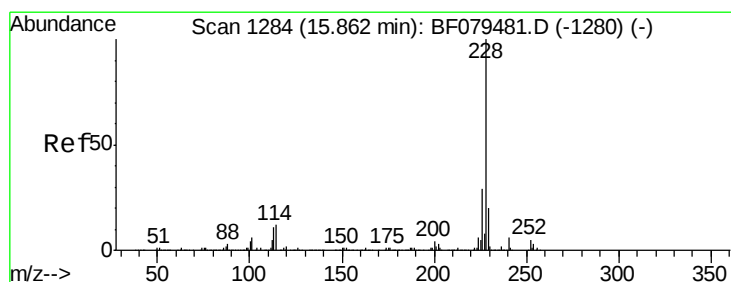
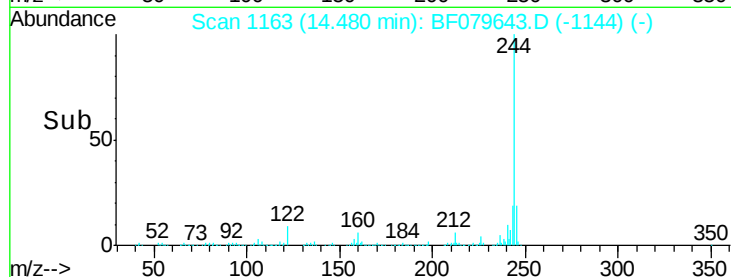
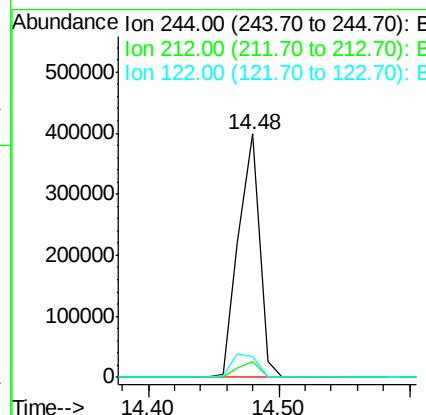
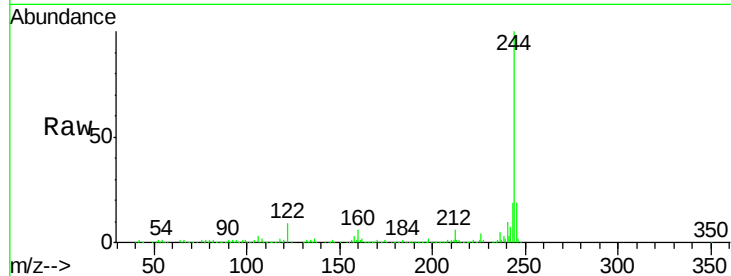
#78  
 Terphenyl-d14  
 Concen: 40.07 ng  
 RT: 14.48 min Scan# 1163  
 Delta R.T. 0.01 min  
 Lab File: BF079643.D  
 Acq: 31 May 2015 20:05

Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-18D

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 447674 |       |       |
| 212     | 6.3   | 5.2    | 7.8   |       |
| 122     | 8.7   | 8.0    | 12.0  |       |

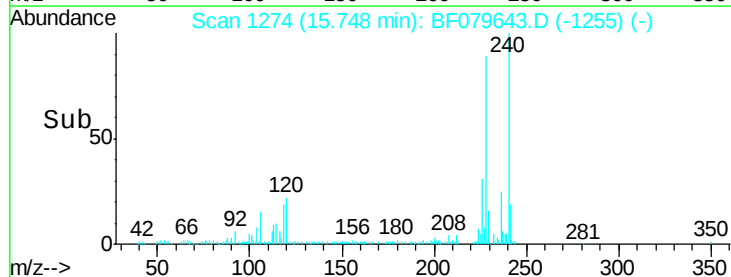
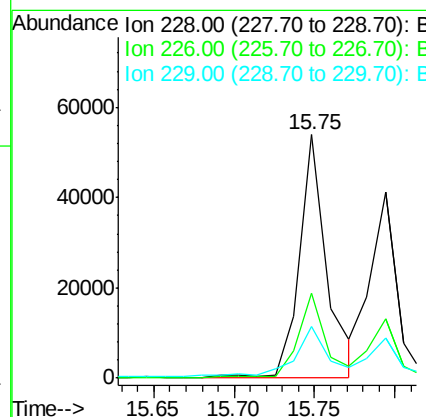
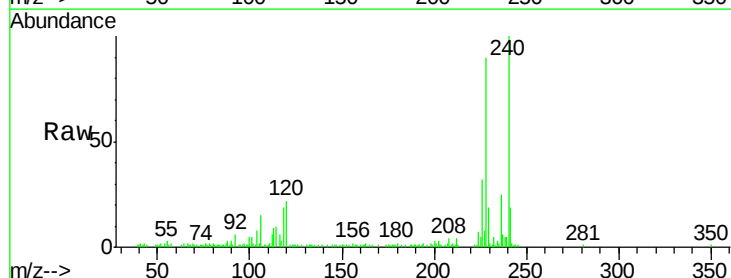
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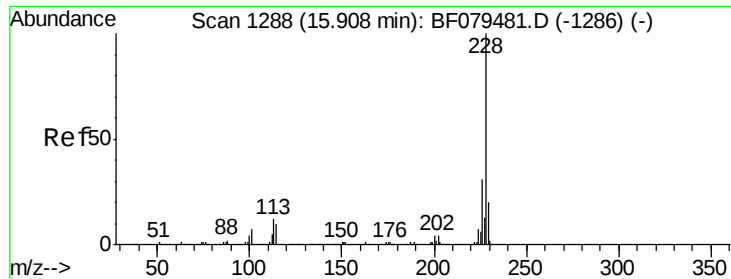
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#80  
 Benzo(a)anthracene  
 Concen: 4.27 ng m  
 RT: 15.75 min Scan# 1274  
 Delta R.T. 0.01 min  
 Lab File: BF079643.D  
 Acq: 31 May 2015 20:05

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 64411 |       |       |
| 226     | 35.0  | 22.8  | 34.2# |       |
| 229     | 21.4  | 15.9  | 23.9  |       |





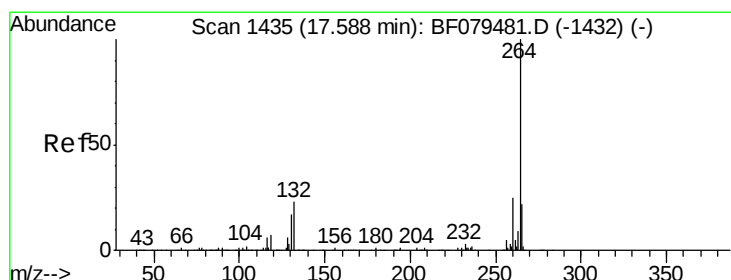
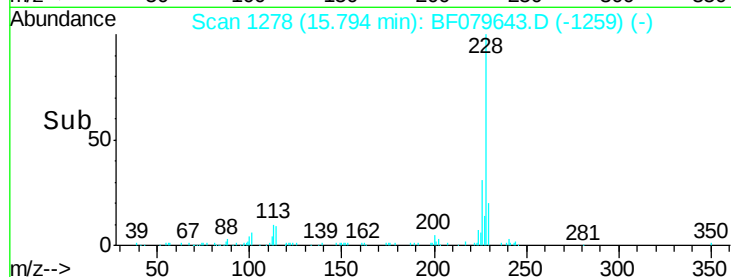
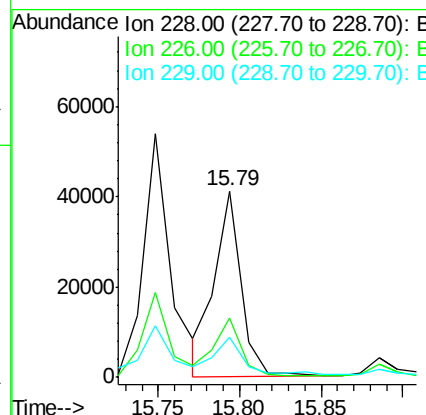
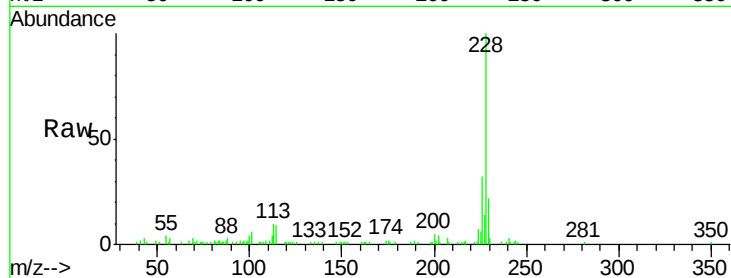
#82  
Chrysene  
Concen: 3.28 ng  
RT: 15.79 min Scan# 1278  
Delta R.T. 0.01 min  
Lab File: BF079643.D  
Acq: 31 May 2015 20:05

Instrument :  
BNA\_F  
ClientSampleId :  
SB-18D

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 46985 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.7  | 25.0  | 37.4  |
| 229       | 21.5  | 15.9  | 23.9  |

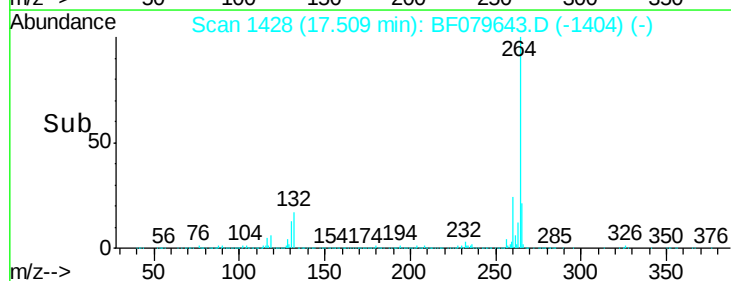
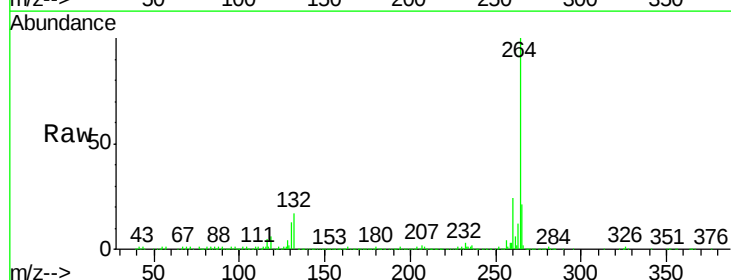
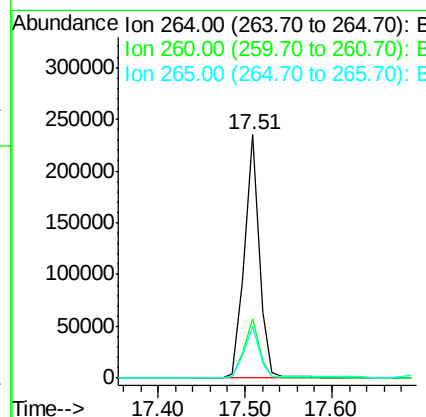
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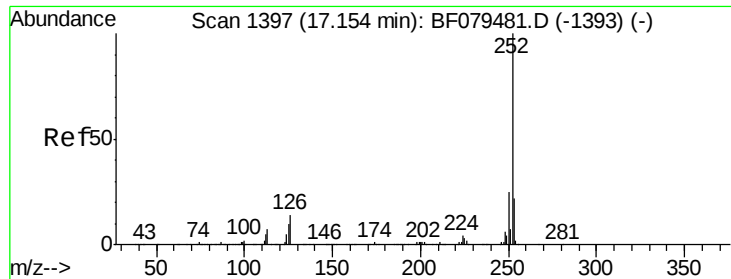
apatel  
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 17.51 min Scan# 1428  
Delta R.T. 0.07 min  
Lab File: BF079643.D  
Acq: 31 May 2015 20:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 281636 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.4  | 19.8  | 29.8   |
| 265       | 21.3  | 17.8  | 26.6   |





#87  
 Benzo(b)fluoranthene  
 Concen: 3.15 ng m  
 RT: 17.06 min Scan# 1389  
 Delta R.T. 0.05 min  
 Lab File: BF079643.D  
 Acq: 31 May 2015 20:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-18D

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 17.6  | 26.4  |
| 125     | 11.8  | 7.8   | 11.6  |

Manual Integrations  
 APPROVED

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