

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\  
 Data File : BF095438.D  
 Acq On : 25 May 2017 23:04  
 Operator : SJ/MA  
 Sample : I3200-03 2X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POST-EX-36-20170517

Manual Integrations  
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Quant Time: May 26 03:56:19 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 18 17:07:53 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.74  | 152  | 102897   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8             | 9.77  | 136  | 411596   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10           | 12.60 | 164  | 172591   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10           | 15.00 | 188  | 264476   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12               | 18.68 | 240  | 203835   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12               | 20.36 | 264  | 158833   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.72  | 112  | 279987   | 45.37 | ng    | -0.01    |
| 7) Phenol-d6                   | 7.31  | 99   | 352935   | 47.66 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 8.65  | 82   | 194214   | 29.75 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 13.91 | 330  | 51979    | 36.77 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 11.54 | 172  | 444709   | 37.09 | ng    | -0.02    |
| 78) Terphenyl-d14              | 17.32 | 244  | 265482   | 28.69 | ng    | -0.03    |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate          | 12.24 | 163  | 117338   | 8.28  | ng    | 97       |
| 70) Phenanthrene               | 15.04 | 178  | 227066   | 14.94 | ng    | 98       |
| 71) Anthracene                 | 15.13 | 178  | 51475m   | 3.32  | ng    |          |
| 74) Fluoranthene               | 16.78 | 202  | 338968   | 21.75 | ng    | 98       |
| 77) Pyrene                     | 17.09 | 202  | 333140   | 21.85 | ng    | 96       |
| 80) Benzo(a)anthracene         | 18.67 | 228  | 137397   | 11.58 | ng    | 98       |
| 82) Chrysene                   | 18.71 | 228  | 147650m  | 12.87 | ng    |          |
| 83) Bis(2-ethylhexyl)phthalate | 18.72 | 149  | 192985   | 19.10 | ng    | # 99     |
| 85) Indeno(1,2,3-cd)pyrene     | 21.70 | 276  | 53652    | 5.76  | ng    | 90       |
| 87) Benzo(b)fluoranthene       | 19.95 | 252  | 141369m  | 14.40 | ng    |          |
| 88) Benzo(k)fluoranthene       | 19.97 | 252  | 54810m   | 5.79  | ng    |          |
| 89) Benzo(a)pyrene             | 20.30 | 252  | 97614    | 10.78 | ng    | 93       |
| 91) Benzo(a,h,i)perylene       | 22.09 | 276  | 53995    | 7.36  | ng    | # 93     |

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

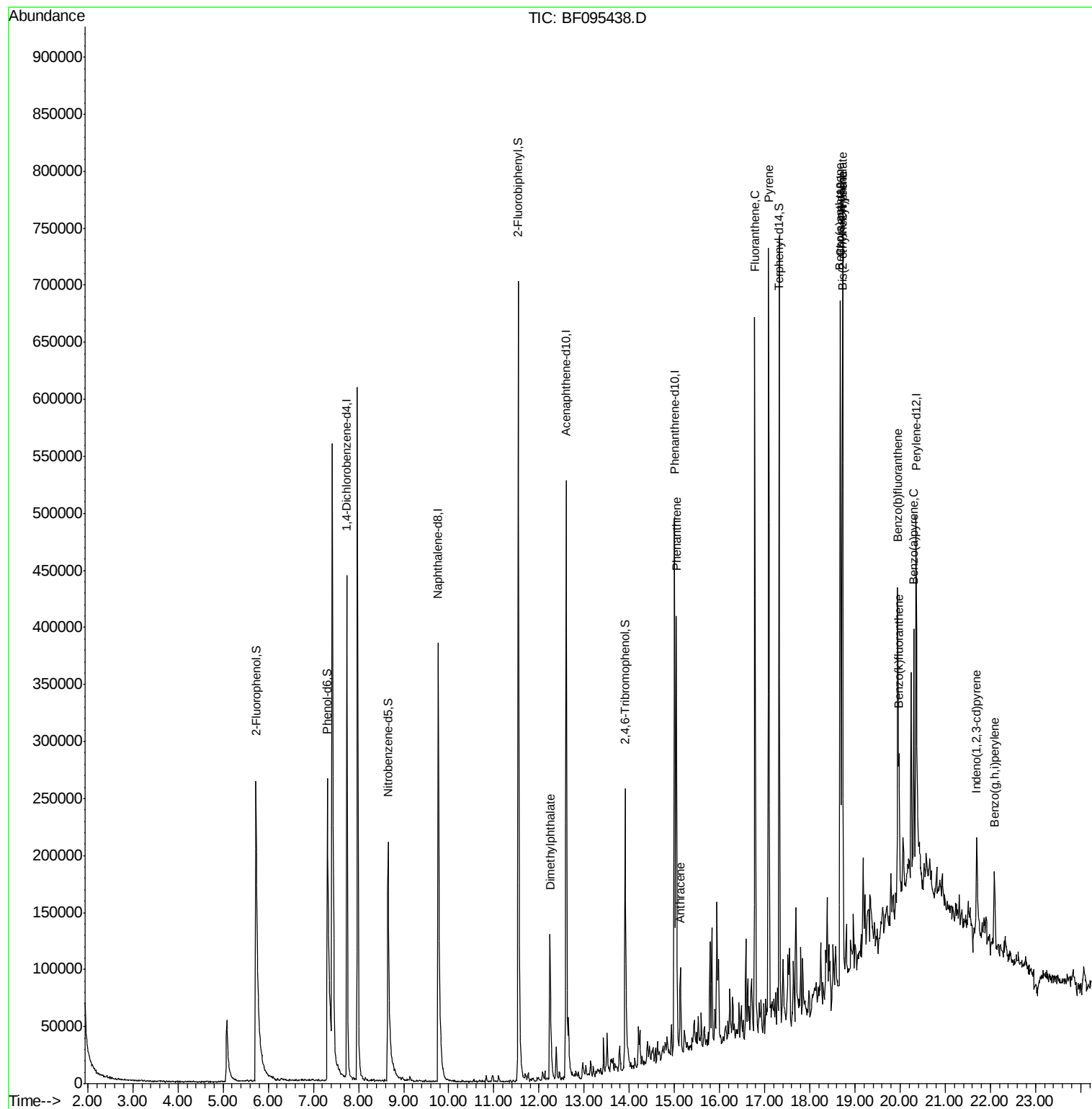
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\  
Data File : BF095438.D  
Acq On : 25 May 2017 23:04  
Operator : SJ/MA  
Sample : I3200-03 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

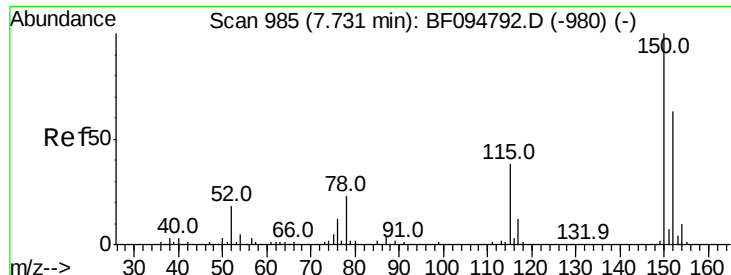
Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-36-20170517

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Quant Time: May 26 03:56:19 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 18 17:07:53 2017  
Response via : Initial Calibration





#1

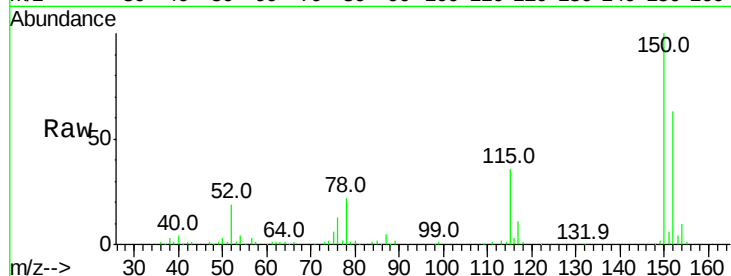
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.74 min Scan# 987  
Delta R.T. -0.02 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-36-20170517

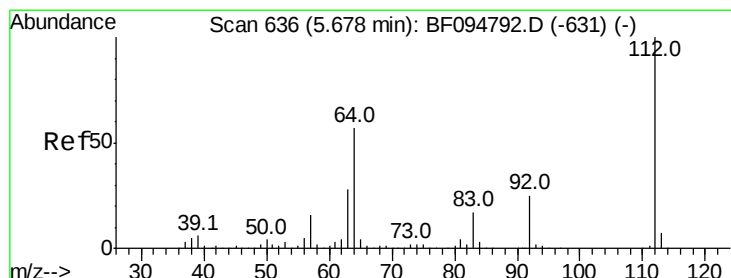
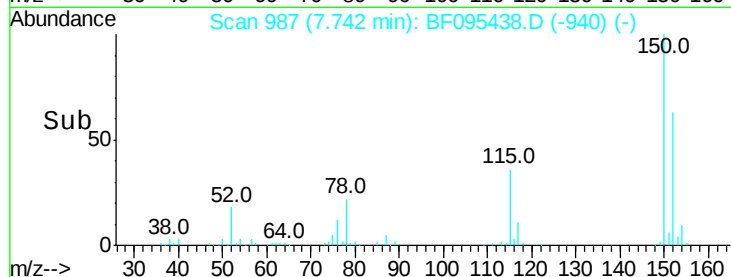
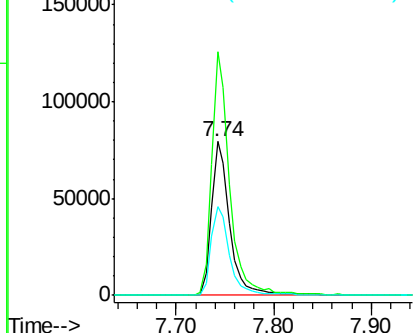
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.3 | 126.2 | 189.2 |
| 115     | 57.5  | 52.2  | 78.2  |

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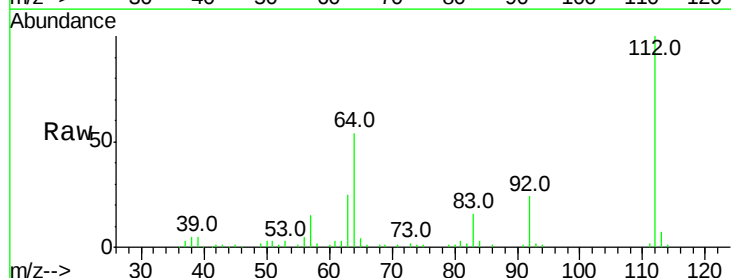
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



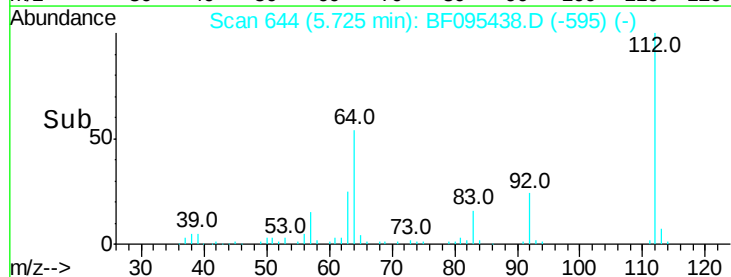
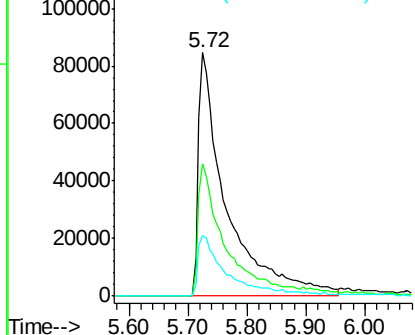
#5

2-Fluorophenol  
Concen: 45.37 ng  
RT: 5.72 min Scan# 644  
Delta R.T. -0.01 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.5  | 46.0  | 69.0  |
| 63      | 25.0  | 23.4  | 35.0  |



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: 47.66 ng

RT: 7.31 min Scan# 913

Delta R.T. -0.01 min

Lab File: BF095438.D

Acq: 25 May 2017 23:04

Instrument :

BNA\_F

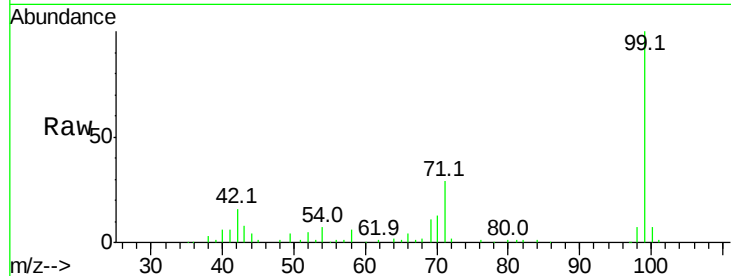
ClientSampleId :

POST-EX-36-20170517

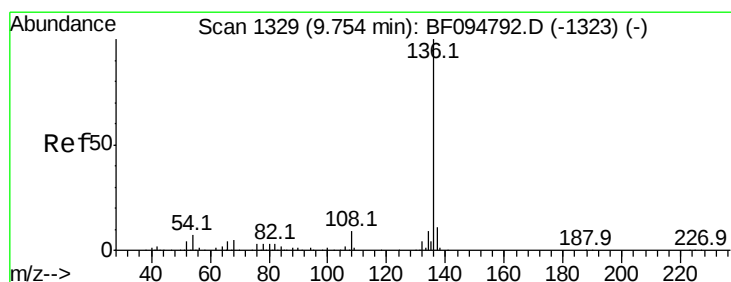
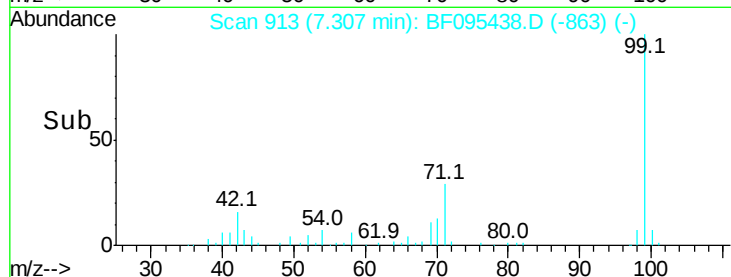
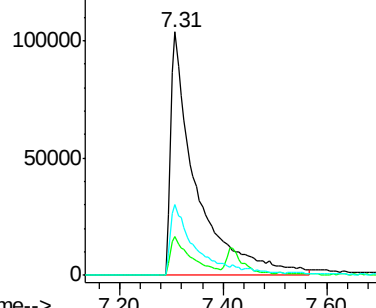
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 352935 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 15.7  | 13.5  | 20.3   |
| 71        | 29.0  | 24.5  | 36.7   |

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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: 9.77 min Scan# 1331

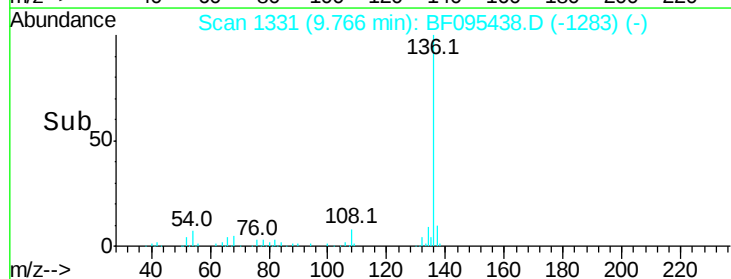
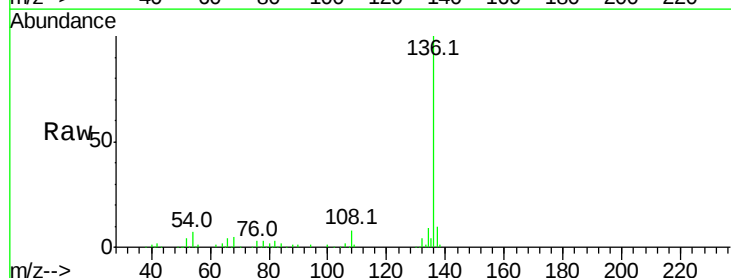
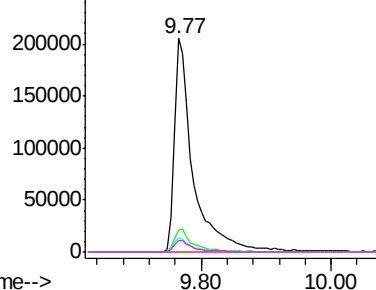
Delta R.T. -0.02 min

Lab File: BF095438.D

Acq: 25 May 2017 23:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 411596 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.1  | 8.5   | 12.7   |
| 54        | 6.7   | 4.9   | 7.3    |
| 68        | 5.3   | 4.1   | 6.1    |

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





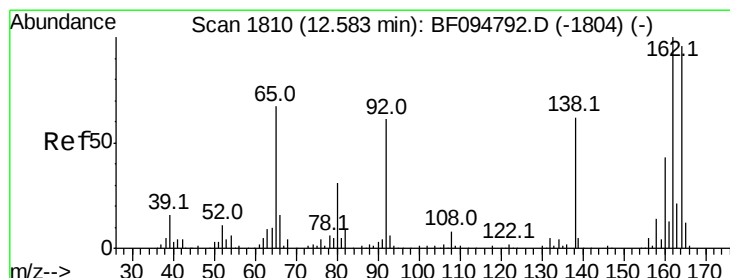
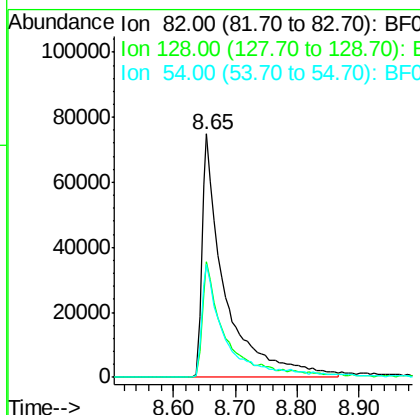
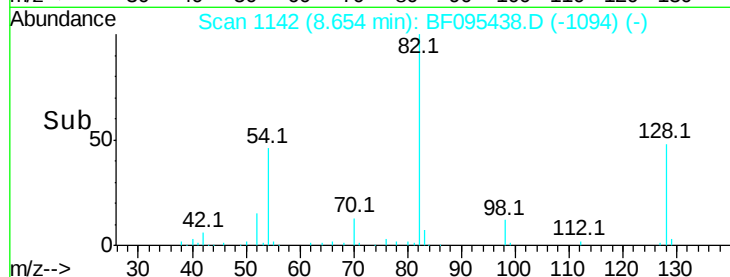
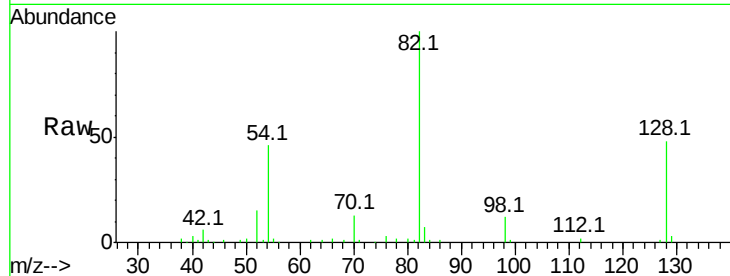
#23  
Nitrobenzene-d5  
Concen: 29.75 ng  
RT: 8.65 min Scan# 1142  
Delta R.T. -0.02 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

Instrument :  
BNA\_F  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 47.6  | 34.0  | 51.0  |
| 54      | 46.5  | 42.2  | 63.2  |

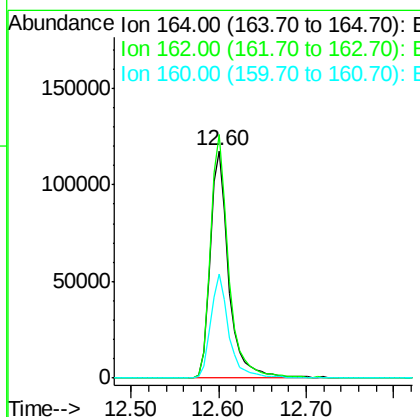
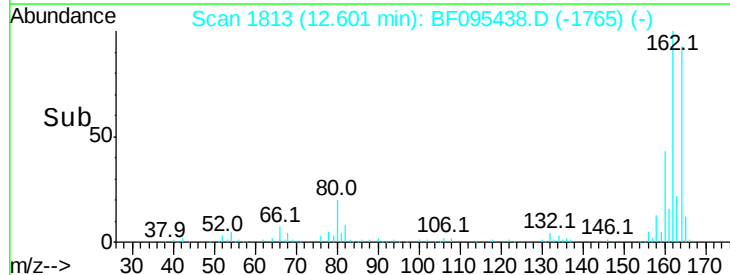
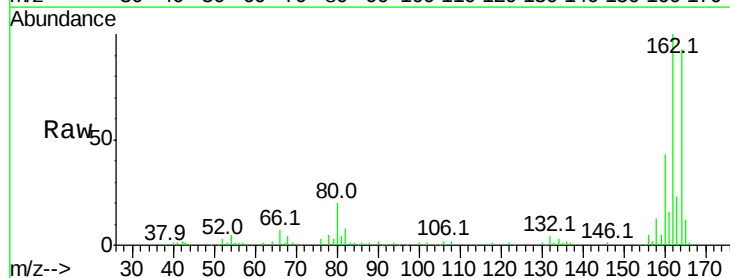
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#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 12.60 min Scan# 1813  
Delta R.T. -0.02 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 107.1 | 82.6  | 123.8 |
| 160     | 46.0  | 36.2  | 54.2  |





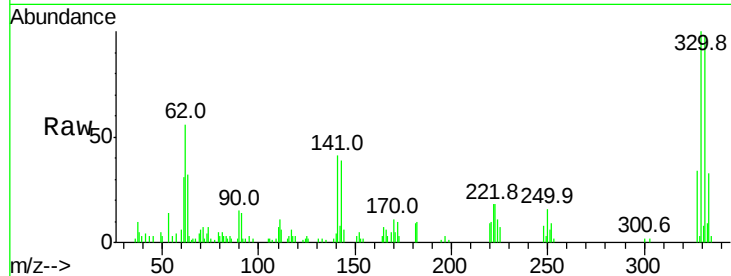
#41  
 2,4,6-Tribromophenol  
 Concen: 36.77 ng  
 RT: 13.91 min Scan# 2035  
 Delta R.T. -0.01 min  
 Lab File: BF095438.D  
 Acq: 25 May 2017 23:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POST-EX-36-20170517

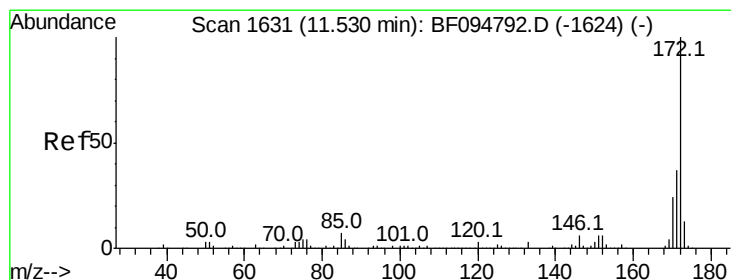
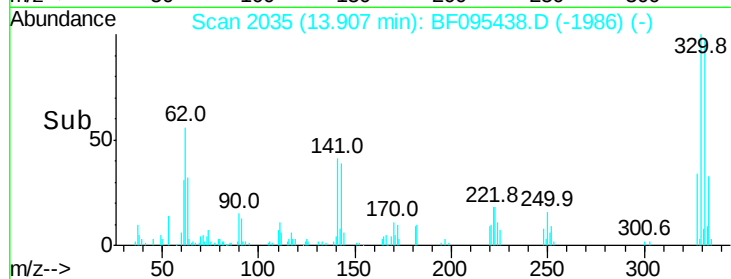
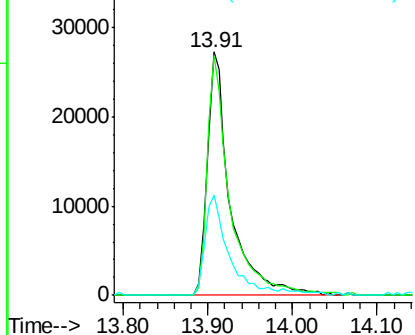
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.8  | 76.6  | 115.0 |
| 141     | 41.7  | 31.4  | 47.2  |

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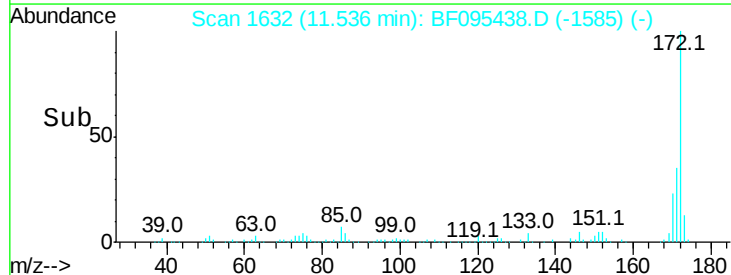
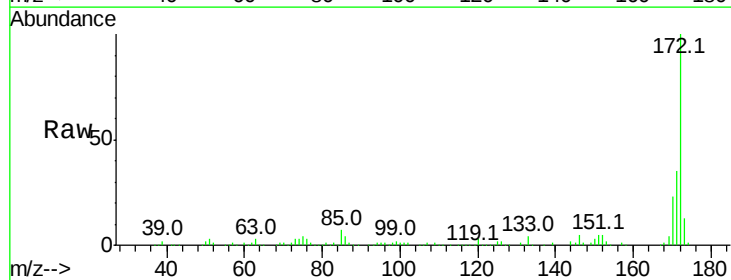
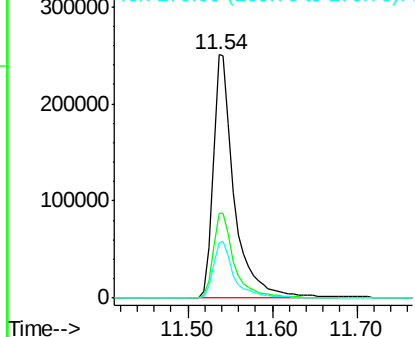
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 37.09 ng  
 RT: 11.54 min Scan# 1632  
 Delta R.T. -0.02 min  
 Lab File: BF095438.D  
 Acq: 25 May 2017 23:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.1  | 29.6  | 44.4  |
| 170     | 22.8  | 19.8  | 29.8  |

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





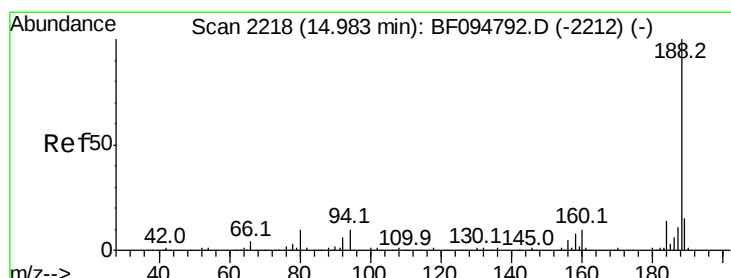
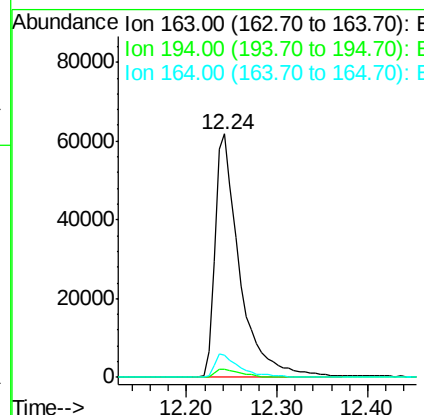
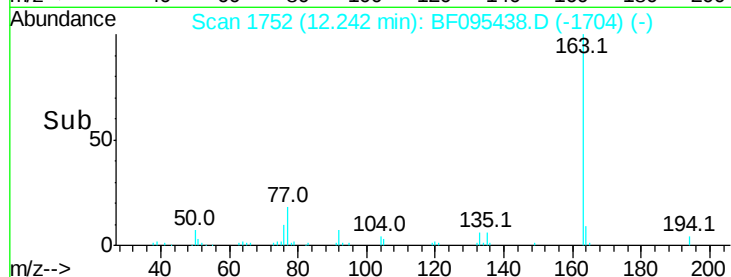
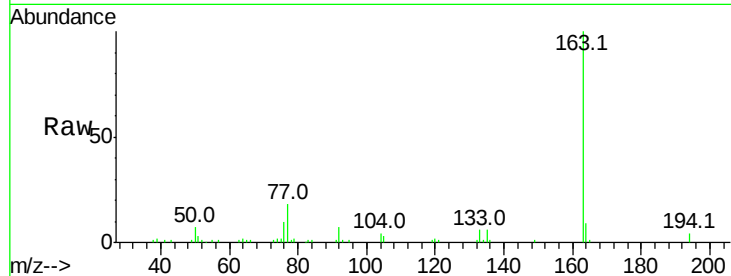
#49  
Dimethylphthalate  
Concen: 8.28 ng  
RT: 12.24 min Scan# 1752  
Delta R.T. -0.02 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-36-20170517

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 117338 |       |       |
| 194     | 3.6   |        | 2.6   | 4.0   |
| 164     | 9.3   |        | 8.4   | 12.6  |

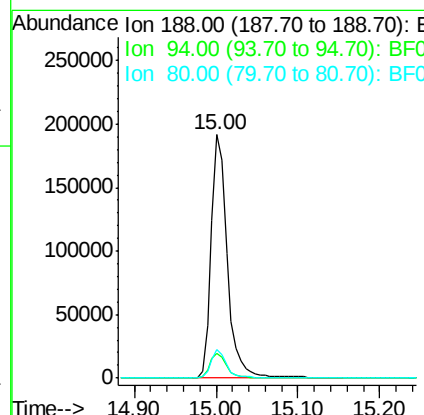
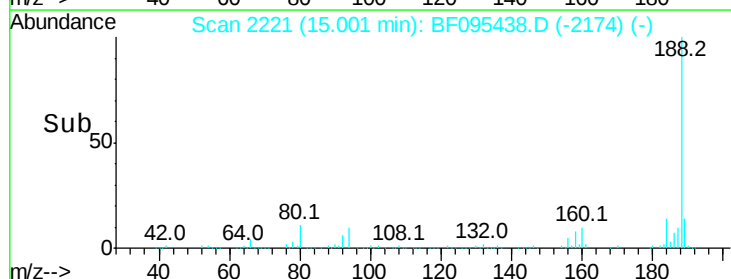
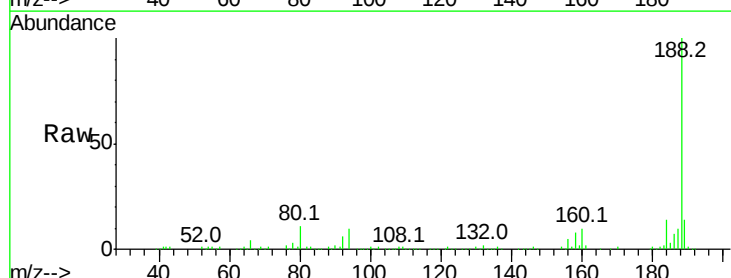
Manual Integrations  
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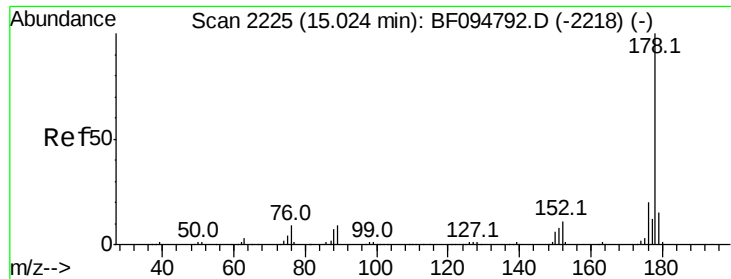
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 15.00 min Scan# 2221  
Delta R.T. -0.02 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 264476 |       |       |
| 94      | 9.9   |        | 9.4   | 14.2  |
| 80      | 11.5  |        | 10.2  | 15.2  |





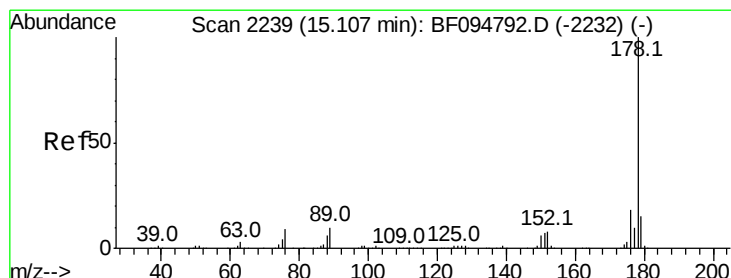
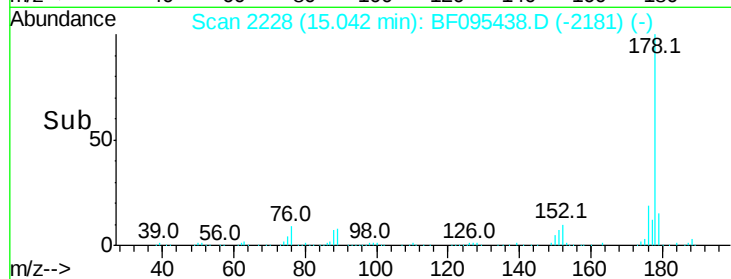
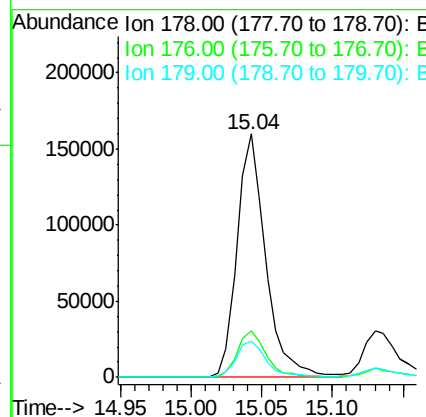
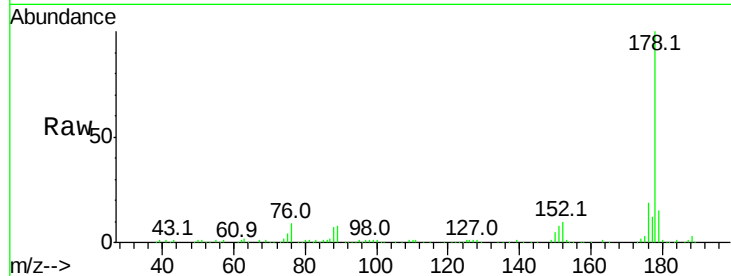
#70  
Phenanthrene  
Concen: 14.94 ng  
RT: 15.04 min Scan# 2228  
Delta R.T. -0.02 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-36-20170517

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 16.2  | 24.4  |
| 179     | 15.1  | 12.6  | 19.0  |

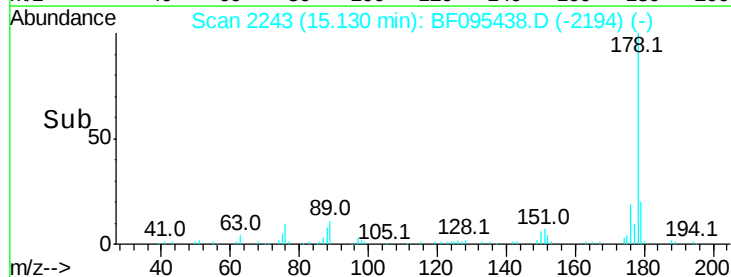
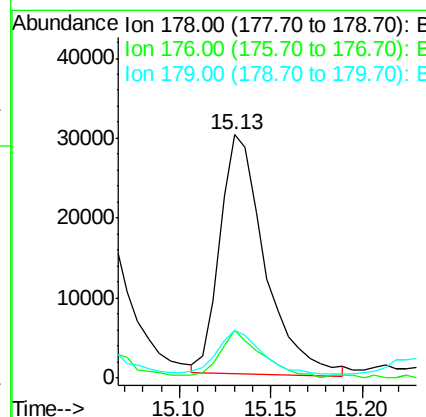
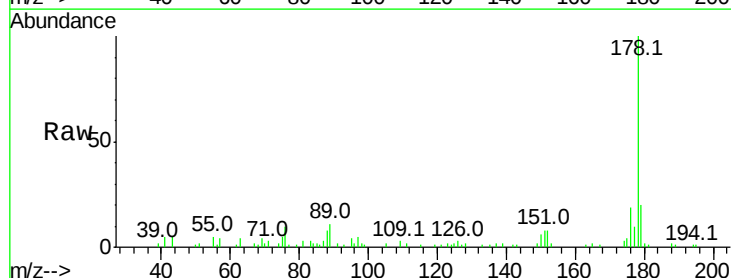
Manual Integrations  
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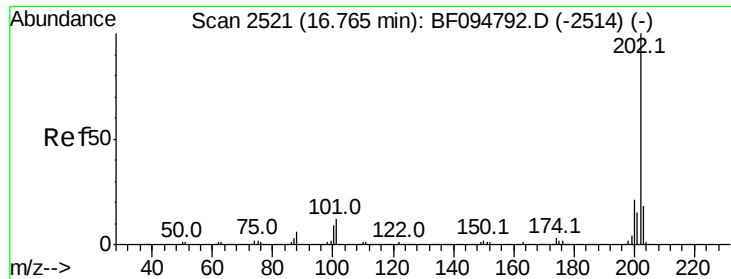
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#71  
Anthracene  
Concen: 3.32 ng m  
RT: 15.13 min Scan# 2243  
Delta R.T. -0.01 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.4  | 15.8  | 23.8  |
| 179     | 19.9  | 12.7  | 19.1# |





#74

Fluoranthene

Concen: 21.75 ng

RT: 16.78 min Scan# 2524

Delta R.T. -0.02 min

Lab File: BF095438.D

Acq: 25 May 2017 23:04

Instrument :

BNA\_F

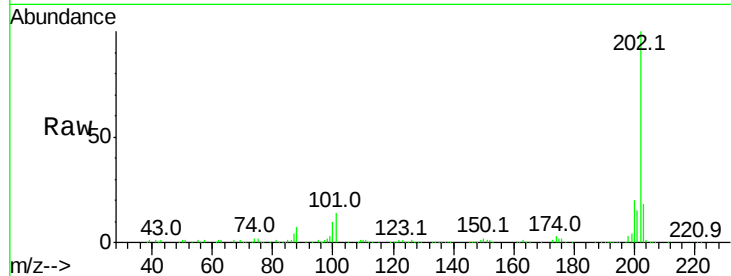
ClientSampleId :

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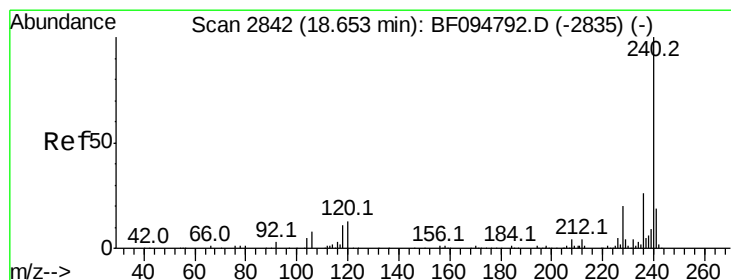
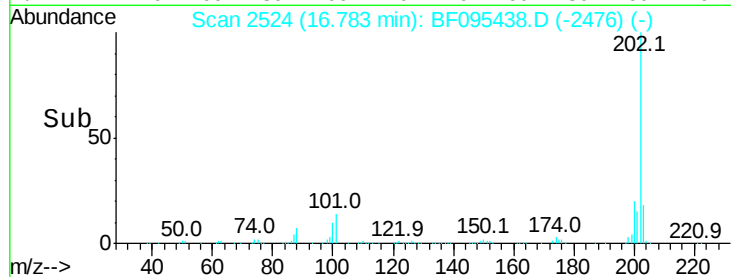
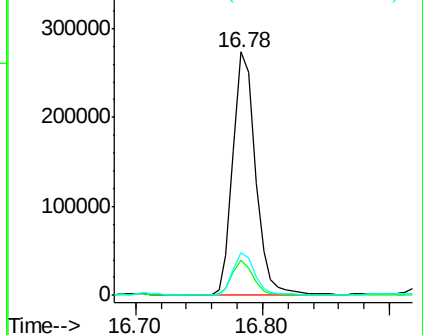
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 338968 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 14.3  | 0.0   | 33.2   |
| 203       | 17.5  | 0.0   | 38.1   |

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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: 18.68 min Scan# 2846

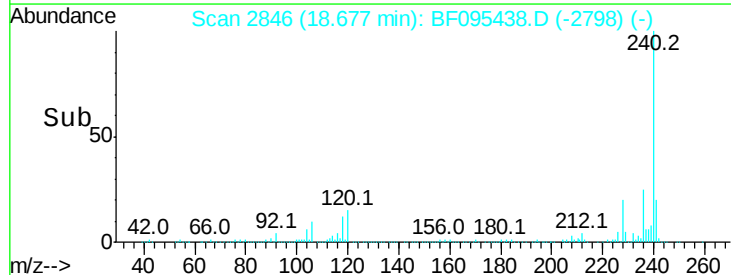
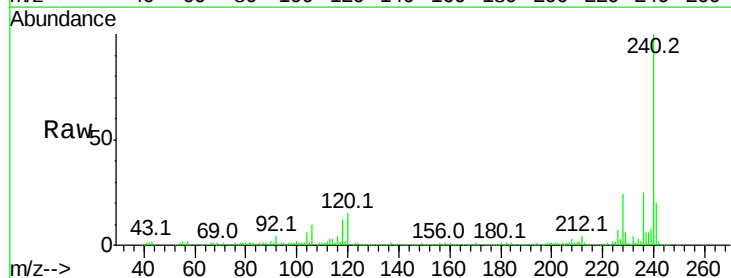
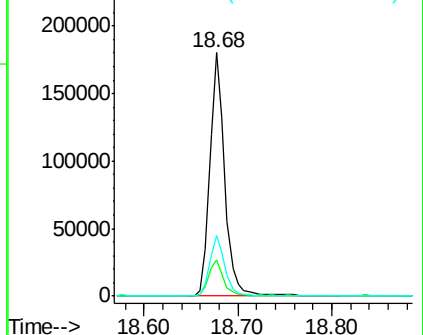
Delta R.T. -0.02 min

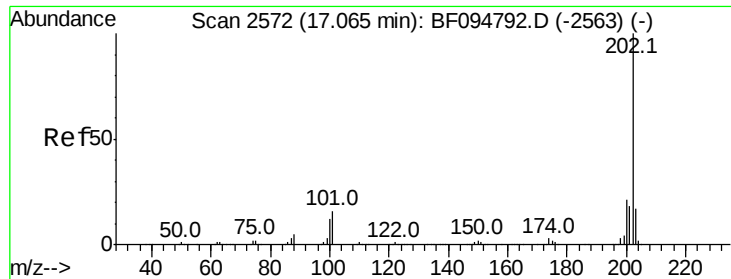
Lab File: BF095438.D

Acq: 25 May 2017 23:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 203835 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 15.2  | 5.8   | 8.8#   |
| 236       | 24.8  | 20.5  | 30.7   |

Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 21.85 ng

RT: 17.09 min Scan# 2576

Delta R.T. -0.02 min

Lab File: BF095438.D

Acq: 25 May 2017 23:04

Instrument :

BNA\_F

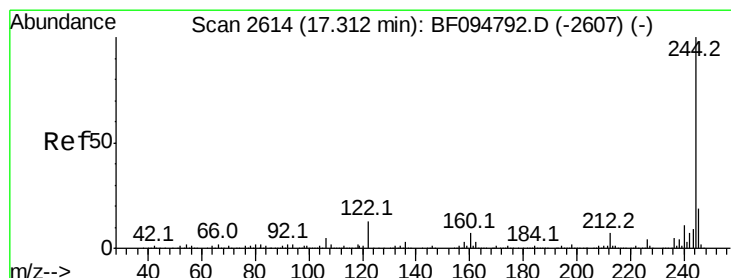
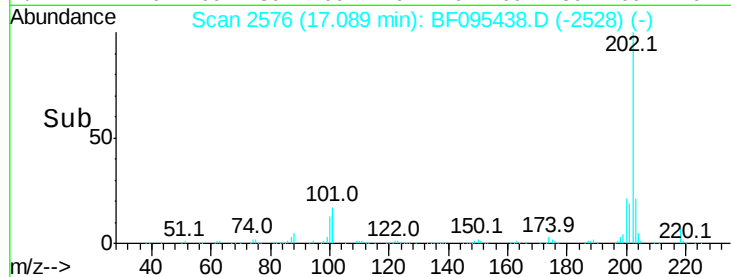
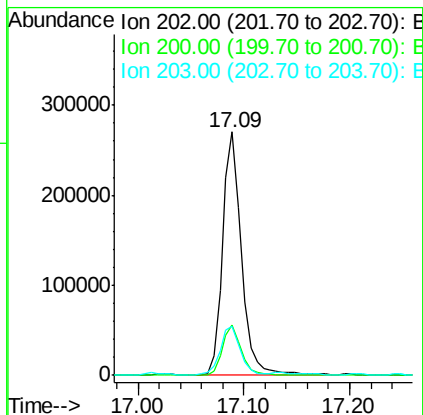
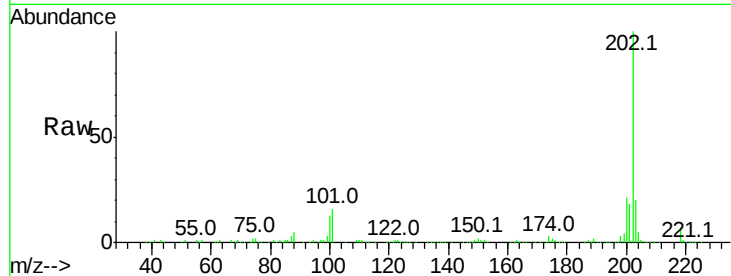
ClientSampleId :

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 333140 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.8  | 17.6  | 26.4   |
| 203       | 20.4  | 14.4  | 21.6   |

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#78

Terphenyl-d14

Concen: 28.69 ng

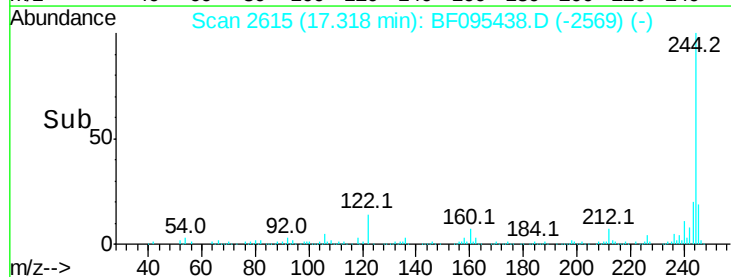
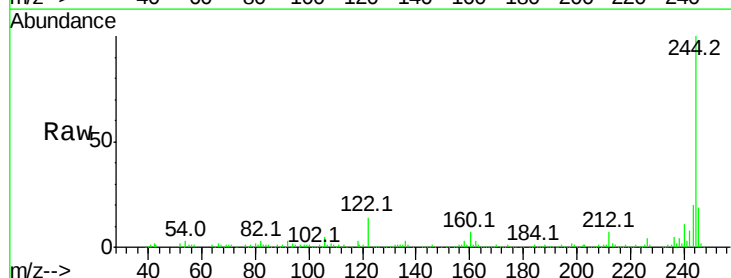
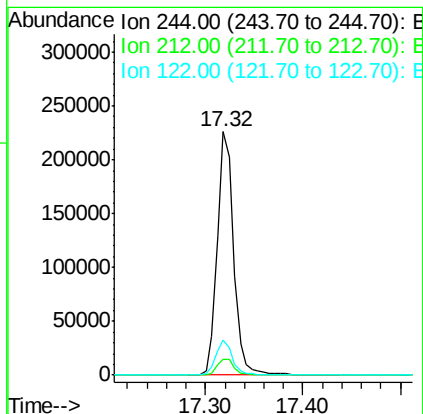
RT: 17.32 min Scan# 2615

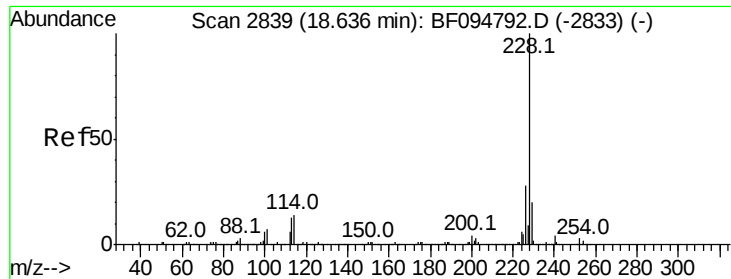
Delta R.T. -0.03 min

Lab File: BF095438.D

Acq: 25 May 2017 23:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 265482 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.7   | 6.0   | 9.0    |
| 122       | 14.4  | 10.3  | 15.5   |





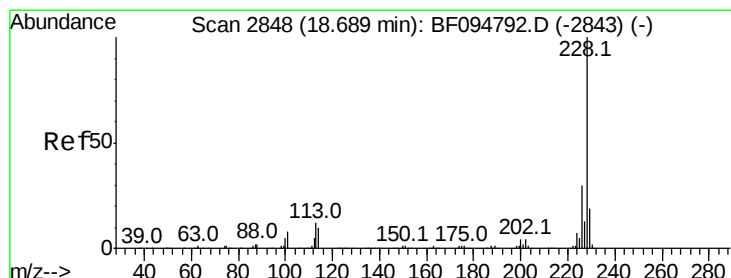
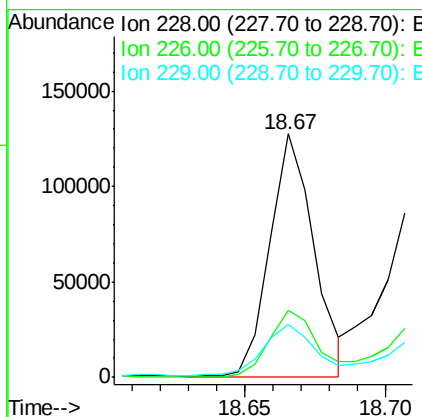
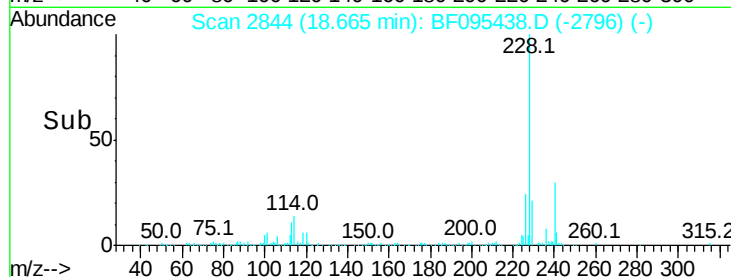
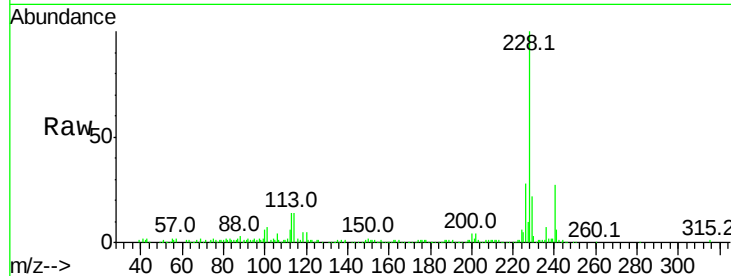
#80  
Benzo(a)anthracene  
Concen: 11.58 ng  
RT: 18.67 min Scan# 2844  
Delta R.T. -0.02 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-36-20170517

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.7  | 22.6  | 33.8  |
| 229     | 22.0  | 16.3  | 24.5  |

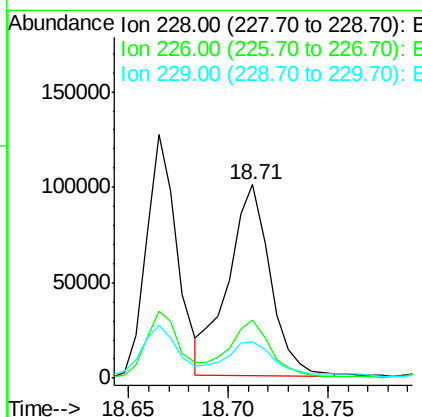
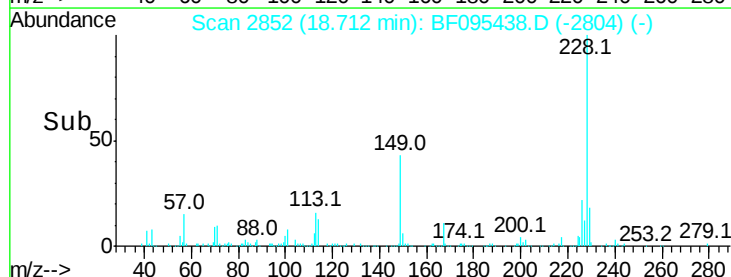
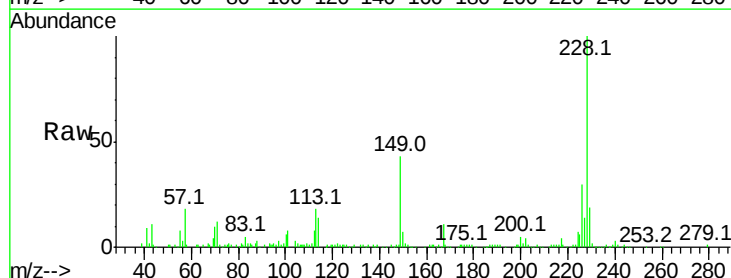
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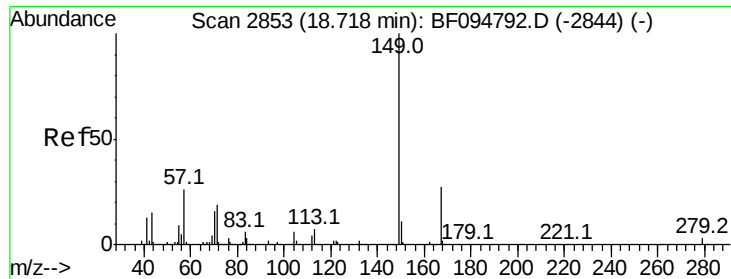
mohammad  
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#82  
Chrysene  
Concen: 12.87 ng m  
RT: 18.71 min Scan# 2852  
Delta R.T. -0.02 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 24.9  | 37.3  |
| 229     | 19.1  | 15.8  | 23.6  |





#83

Bis(2-ethylhexyl)phthalate

Concen: 19.10 ng

RT: 18.72 min Scan# 2854

Delta R.T. -0.02 min

Lab File: BF095438.D

Acq: 25 May 2017 23:04

Instrument :

BNA\_F

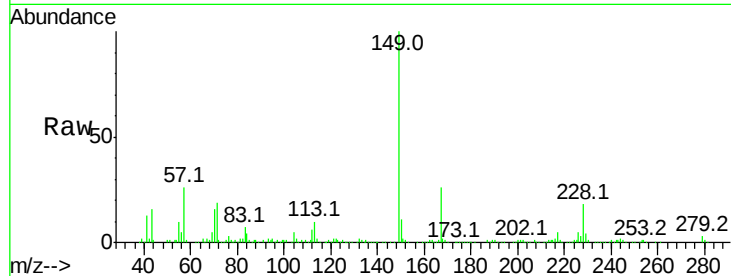
ClientSampleId :

POST-EX-36-20170517

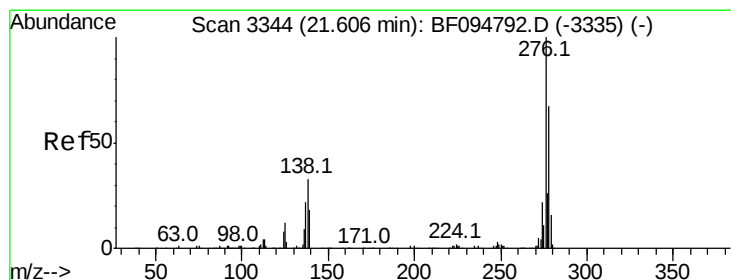
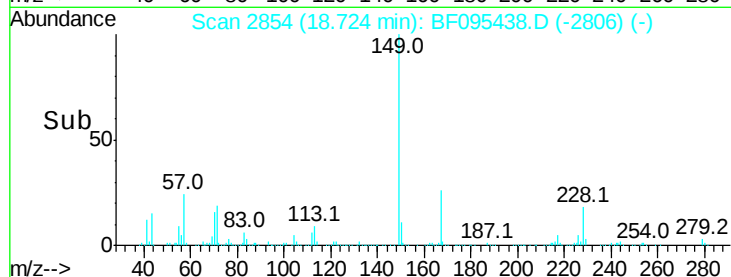
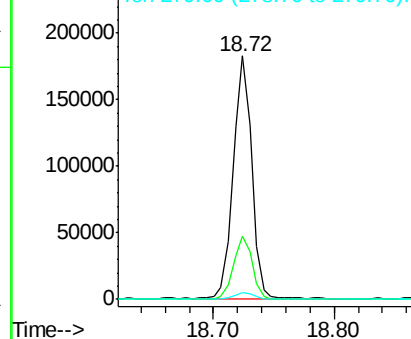
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 149   | Resp: | 192985 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 25.7  | 21.0  | 31.4   |
| 279       | 3.0   | 1.9   | 2.9#   |

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Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.76 ng

RT: 21.70 min Scan# 3360

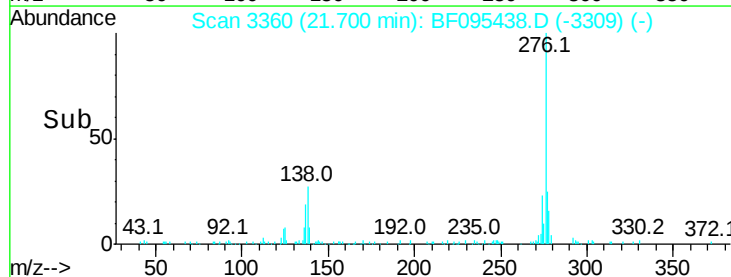
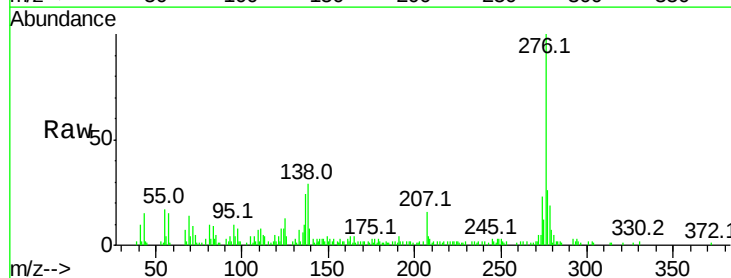
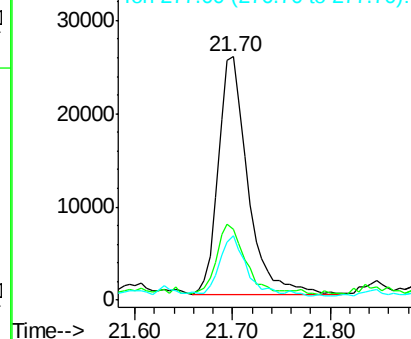
Delta R.T. 0.00 min

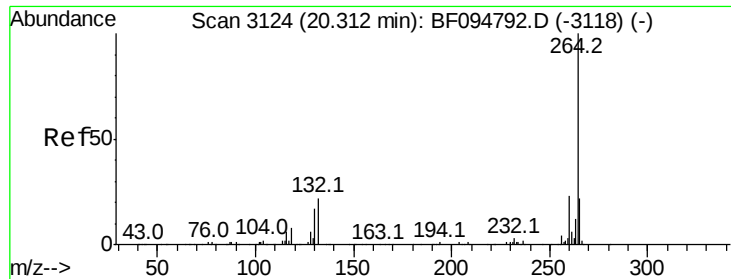
Lab File: BF095438.D

Acq: 25 May 2017 23:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 53652 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 27.8  | 27.8  | 41.6  |
| 277       | 21.0  | 20.2  | 30.4  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E





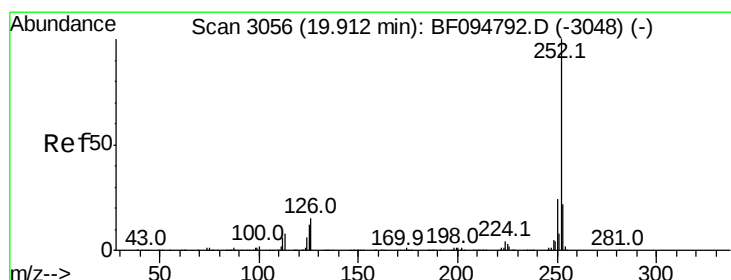
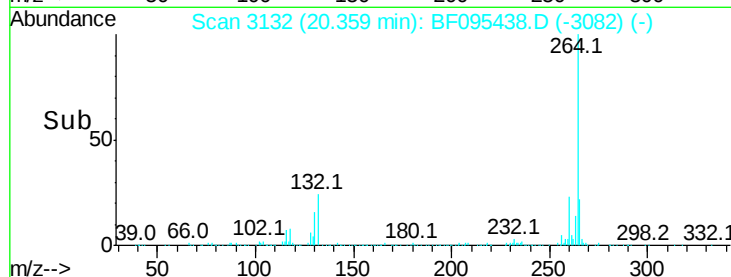
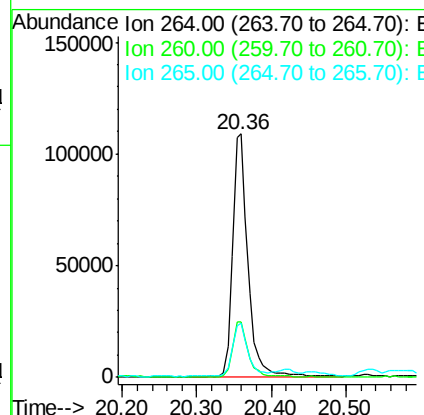
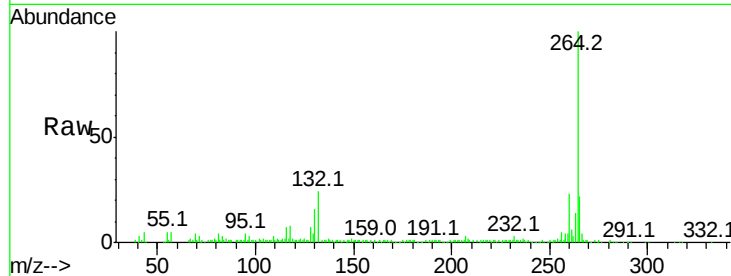
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.36 min Scan# 3132  
Delta R.T. -0.01 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-36-20170517

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.9  | 19.5  | 29.3  |
| 265     | 22.1  | 17.2  | 25.8  |

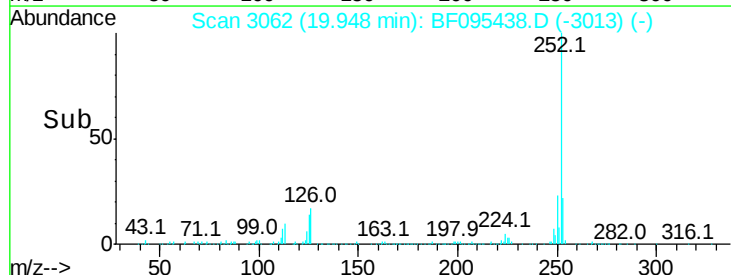
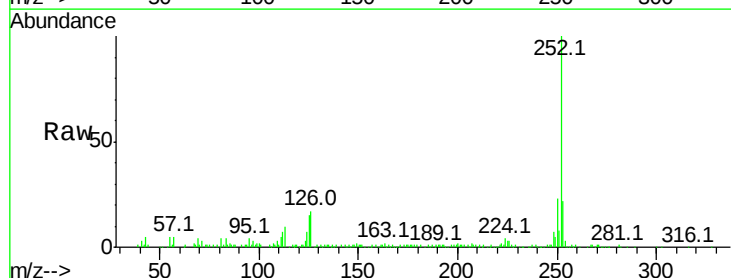
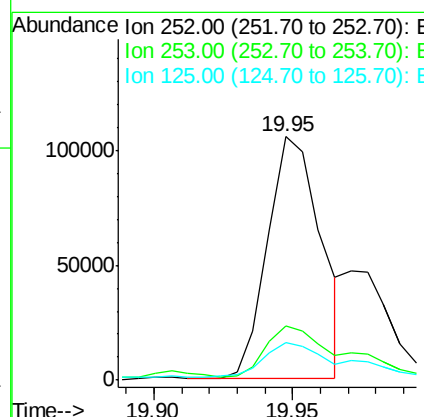
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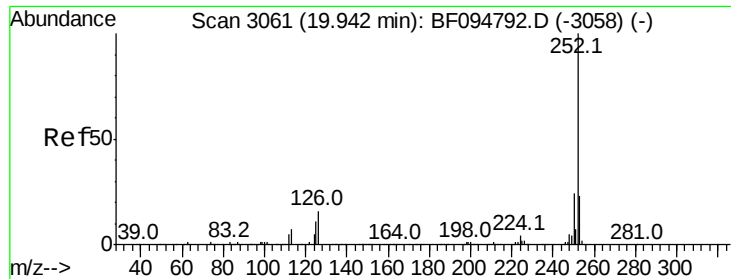
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#87  
Benzo(b)fluoranthene  
Concen: 14.40 ng m  
RT: 19.95 min Scan# 3062  
Delta R.T. -0.01 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 18.1  | 27.1  |
| 125     | 15.3  | 9.8   | 14.8# |





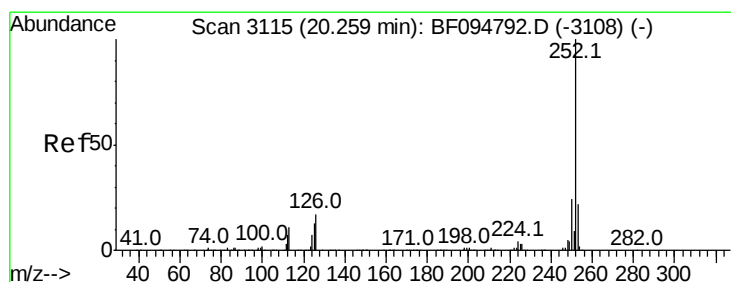
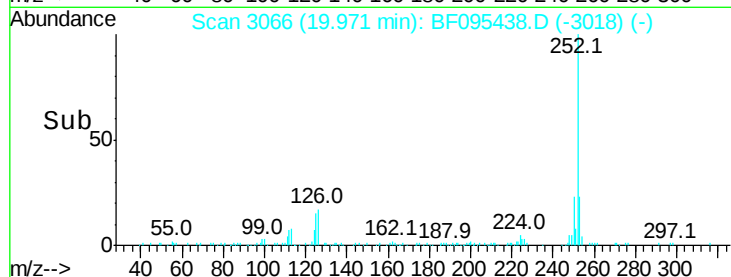
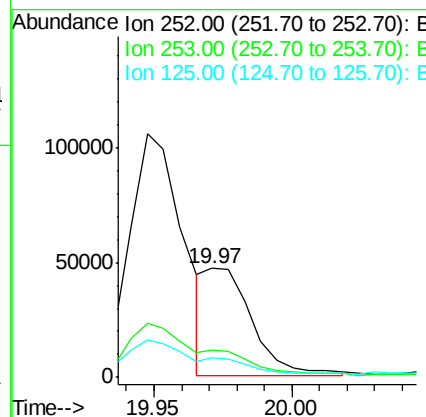
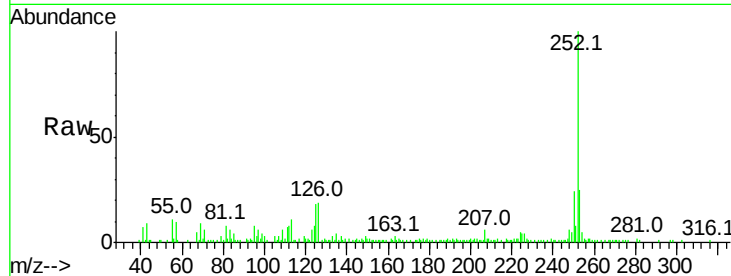
#88  
Benzo(k)fluoranthene  
Concen: 5.79 ng m  
RT: 19.97 min Scan# 3066  
Delta R.T. -0.02 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-36-20170517

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 18.4  | 27.6  |
| 125     | 17.5  | 13.1  | 19.7  |

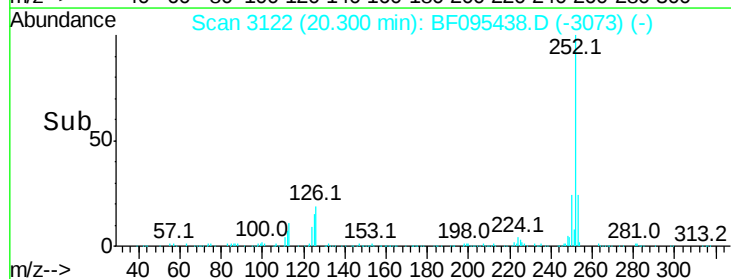
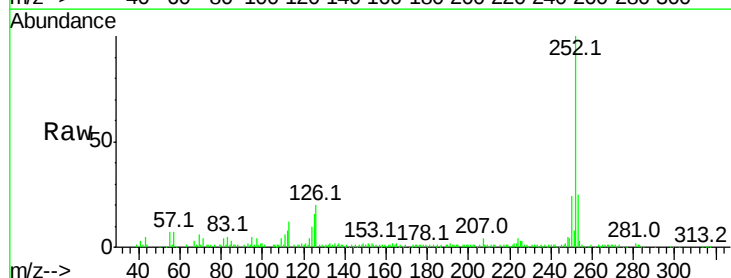
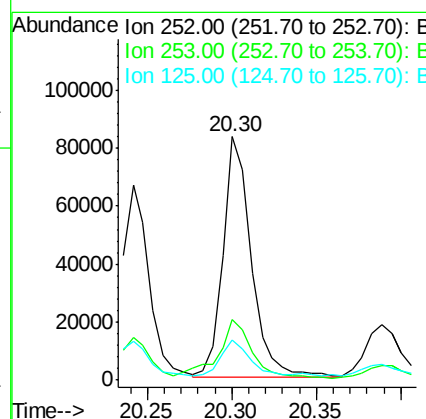
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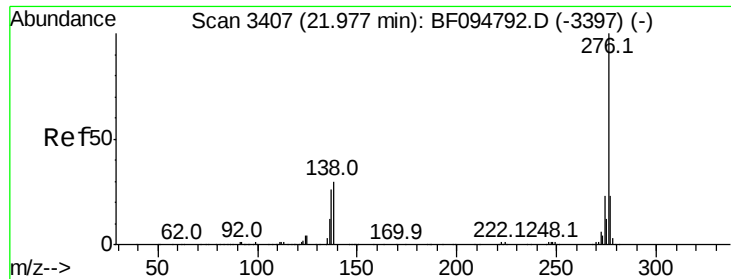
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#89  
Benzo(a)pyrene  
Concen: 10.78 ng  
RT: 20.30 min Scan# 3122  
Delta R.T. -0.01 min  
Lab File: BF095438.D  
Acq: 25 May 2017 23:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.0  | 17.5  | 26.3  |
| 125     | 16.4  | 11.0  | 16.4  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 7.36 ng  
 RT: 22.09 min Scan# 3426  
 Delta R.T. 0.01 min  
 Lab File: BF095438.D  
 Acq: 25 May 2017 23:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POST-EX-36-20170517

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 28.7  | 18.6  | 28.0# |
| 138     | 29.9  | 25.4  | 38.0  |

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