

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041017\  
 Data File : BF094347.D  
 Acq On : 11 Apr 2017 9:11  
 Operator : SJ/MA  
 Sample : I2601-06  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-32-S1(0-2)

Manual Integrations  
 APPROVED

mohammad  
 4/11/2017 12:53:46 PM

Quant Time: Apr 11 11:26:32 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 06 13:20:29 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.84  | 152  | 154397   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 7.34  | 136  | 607726   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.48  | 164  | 255343   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.30 | 188  | 407554   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 14.55 | 240  | 298150   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 16.18 | 264  | 245507   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 4.40  | 112  | 1247635  | 136.48 | ng    | 0.01     |
| 7) Phenol-d6                | 5.47  | 99   | 1613810  | 142.71 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 6.49  | 82   | 990522   | 93.02  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.46 | 330  | 282352   | 139.93 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 8.67  | 172  | 1483586  | 88.62  | ng    | -0.02    |
| 78) Terphenyl-d14           | 13.28 | 244  | 925803   | 69.60  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 5.49  | 94   | 111206   | 8.64   | ng    | 89       |
| 49) Dimethylphthalate       | 9.16  | 163  | 178275   | 9.82   | ng    | 99       |
| 74) Fluoranthene            | 12.79 | 202  | 63190    | 2.72   | ng    | 99       |
| 77) Pyrene                  | 13.07 | 202  | 60233    | 2.78   | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 15.77 | 252  | 36864m   | 2.45   | ng    |          |

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

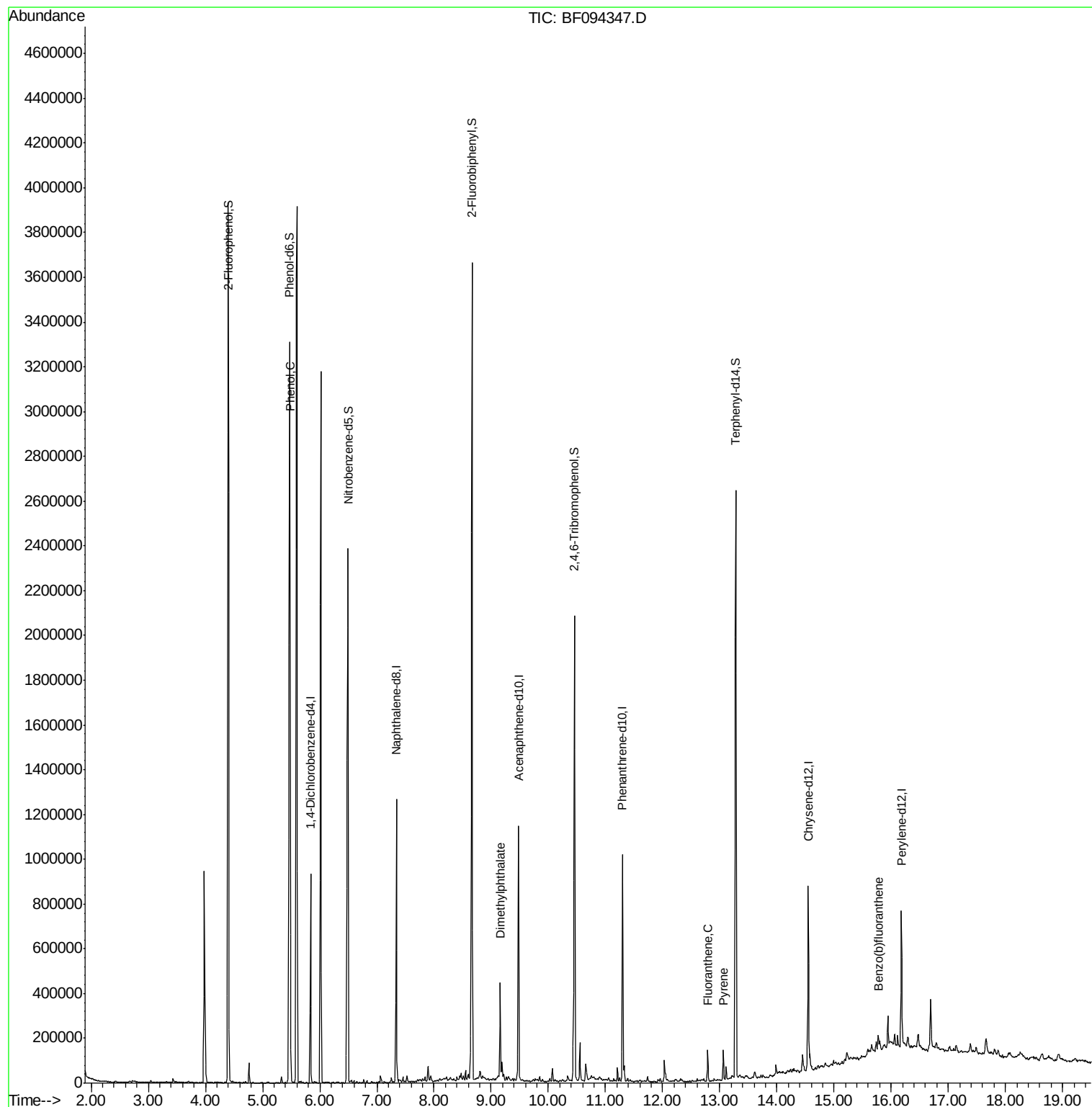
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041017\  
Data File : BF094347.D  
Acq On : 11 Apr 2017 9:11  
Operator : SJ/MA  
Sample : I2601-06  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

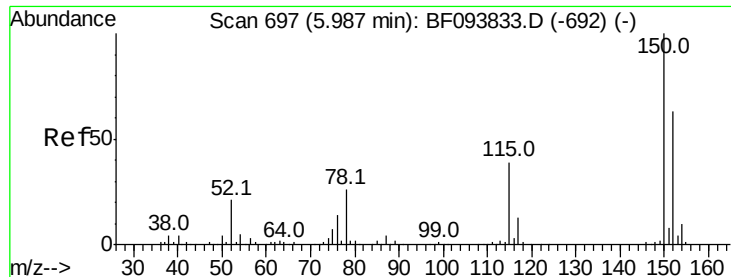
Instrument :  
BNA\_F  
ClientSampleId :  
B-32-S1(0-2)

Manual Integrations  
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Quant Time: Apr 11 11:26:32 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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Response via : Initial Calibration





#1

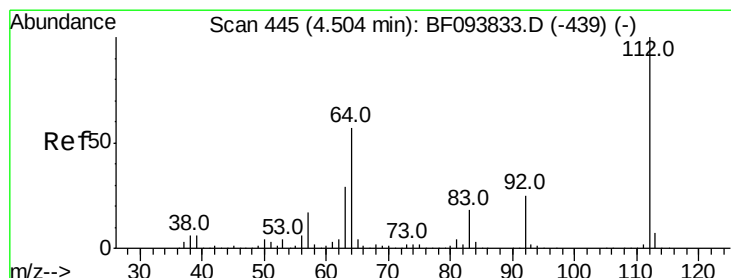
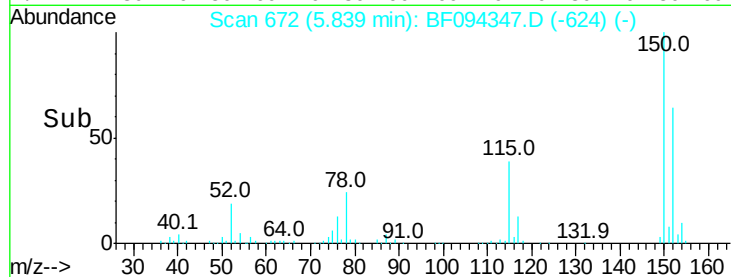
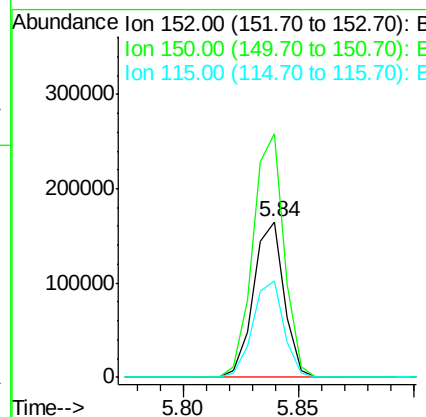
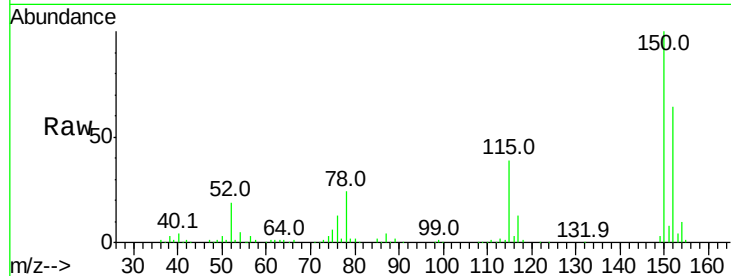
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 5.84 min Scan# 672  
Delta R.T. -0.02 min  
Lab File: BF094347.D  
Acq: 11 Apr 2017 9:11

Instrument :  
BNA\_F  
ClientSampleId :  
B-32-S1(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.4 | 126.2 | 189.2 |
| 115     | 61.5  | 52.2  | 78.2  |

Manual Integrations  
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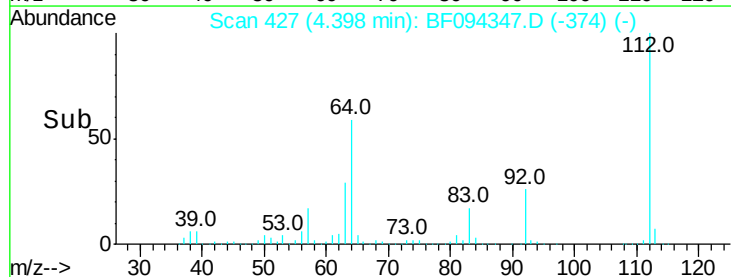
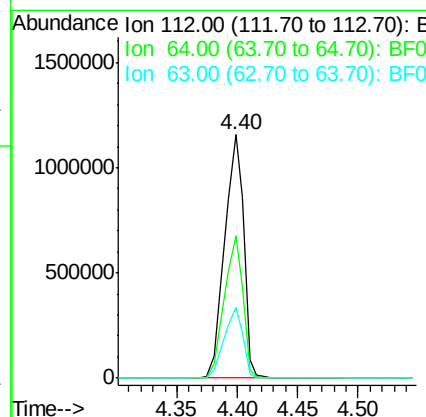
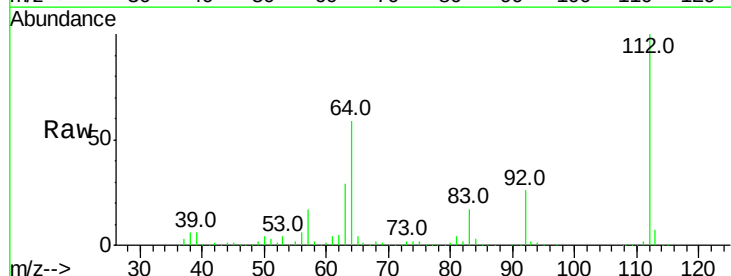
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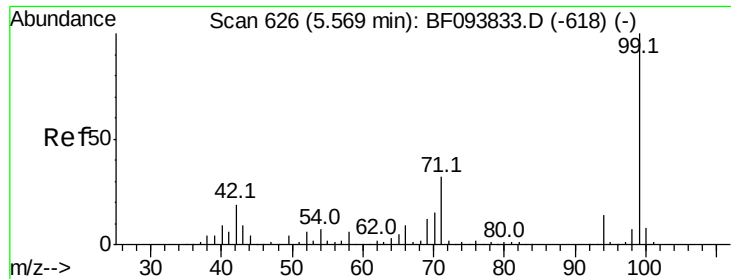


#5

2-Fluorophenol  
Concen: 136.48 ng  
RT: 4.40 min Scan# 427  
Delta R.T. 0.01 min  
Lab File: BF094347.D  
Acq: 11 Apr 2017 9:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.7  | 46.0  | 69.0  |
| 63      | 29.2  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 142.71 ng

RT: 5.47 min Scan# 610

Delta R.T. 0.01 min

Lab File: BF094347.D

Acq: 11 Apr 2017 9:11

Instrument :

BNA\_F

ClientSampleId :

B-32-S1(0-2)

Tot Ion: 99 Resp: 1613810

Ion Ratio Lower Upper

99 100

42 18.2 13.5 20.3

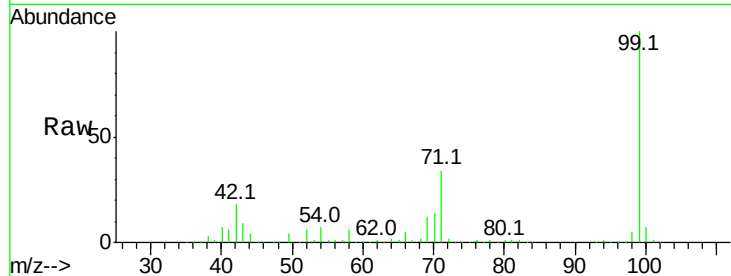
71 33.9 24.5 36.7

Manual Integrations

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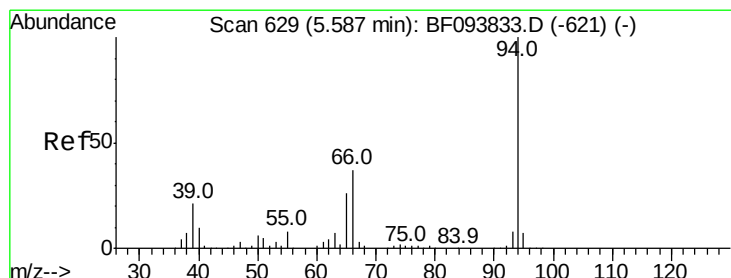
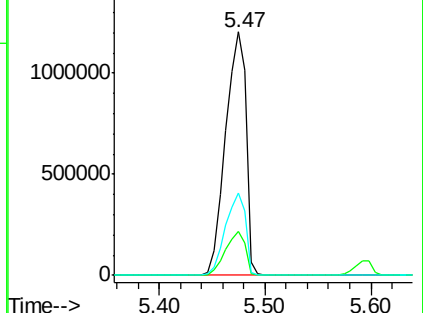
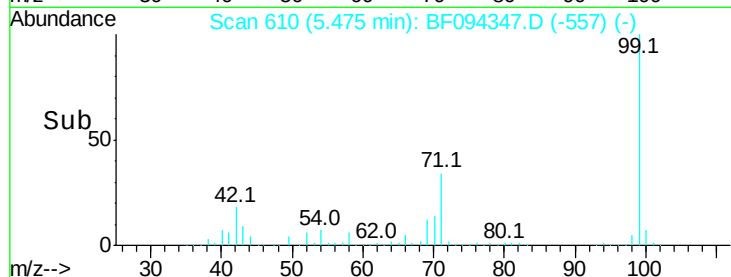
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 8.64 ng

RT: 5.49 min Scan# 612

Delta R.T. 0.01 min

Lab File: BF094347.D

Acq: 11 Apr 2017 9:11

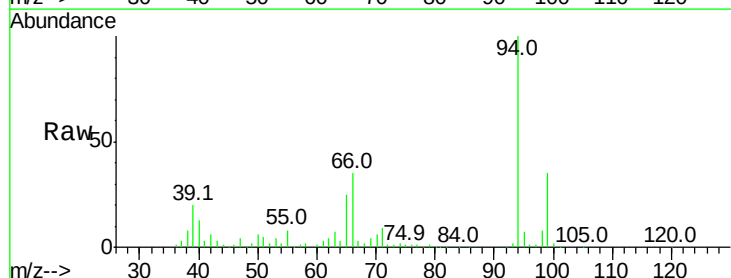
Tgt Ion: 94 Resp: 111206

Ion Ratio Lower Upper

94 100

65 25.2 9.9 49.9

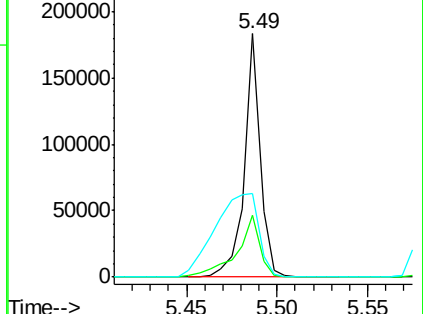
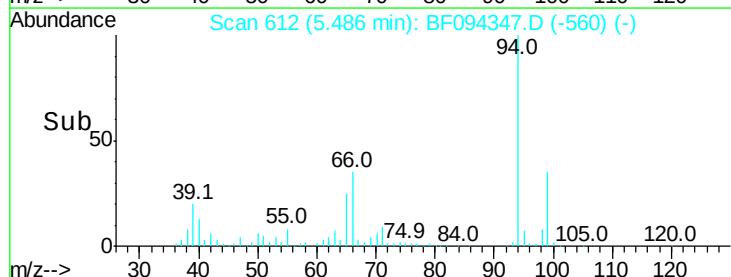
66 34.6 23.1 63.1

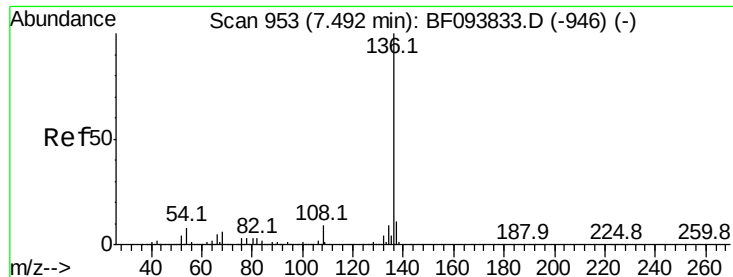


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.34 min Scan# 927

Delta R.T. -0.02 min

Lab File: BF094347.D

Acq: 11 Apr 2017 9:11

Instrument :

BNA\_F

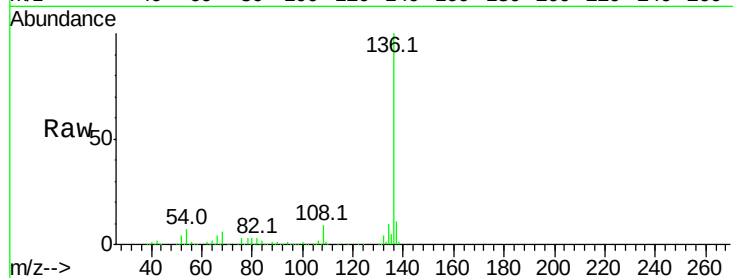
ClientSampleId :

B-32-S1(0-2)

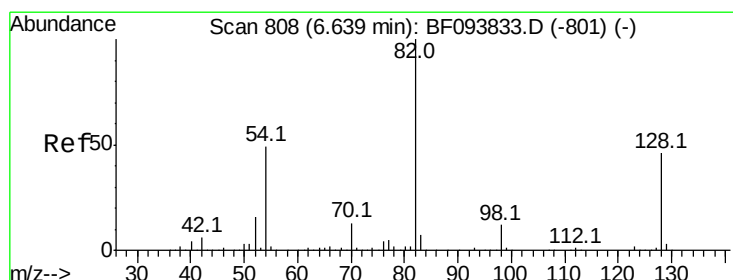
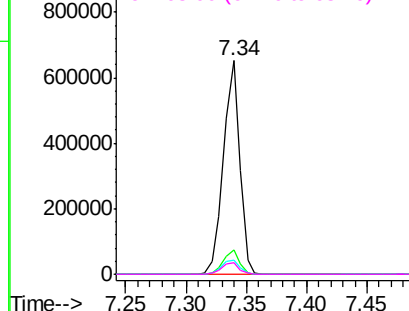
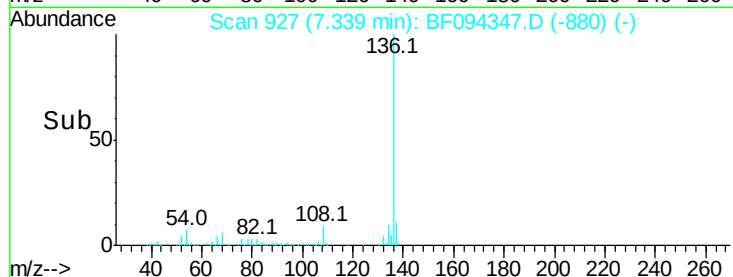
| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 607726 |       |       |
| 137     | 11.1 | 8.5   | 12.7   |       |       |
| 54      | 6.9  | 4.9   | 7.3    |       |       |
| 68      | 5.7  | 4.1   | 6.1    |       |       |

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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: 93.02 ng

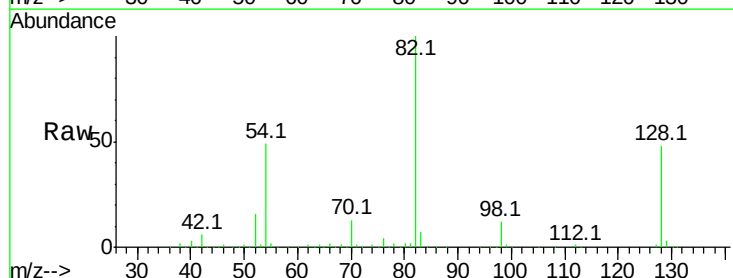
RT: 6.49 min Scan# 783

Delta R.T. -0.02 min

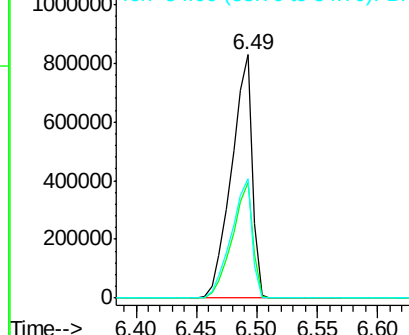
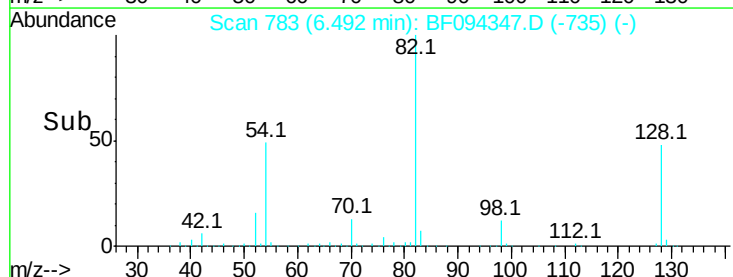
Lab File: BF094347.D

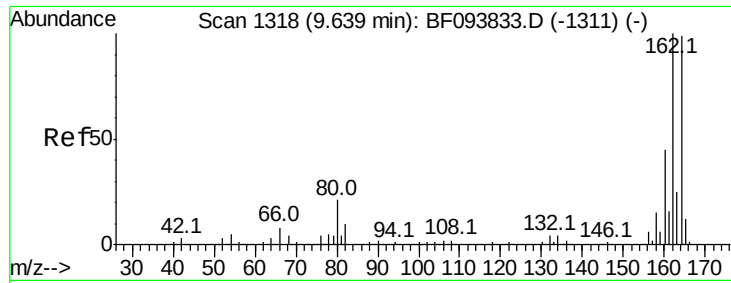
Acq: 11 Apr 2017 9:11

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 82      | 100  |       | 990522 |       |       |
| 128     | 47.7 | 34.0  | 51.0   |       |       |
| 54      | 48.9 | 42.2  | 63.2   |       |       |



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





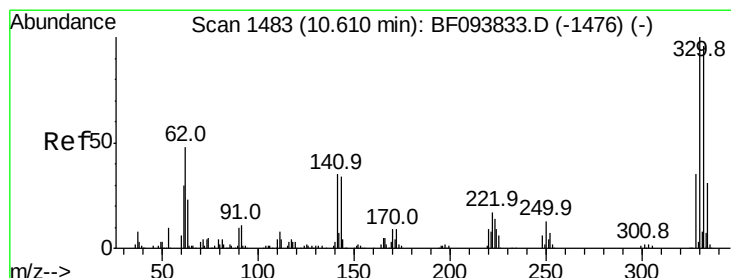
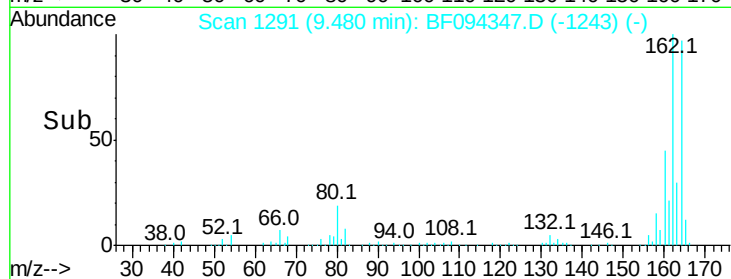
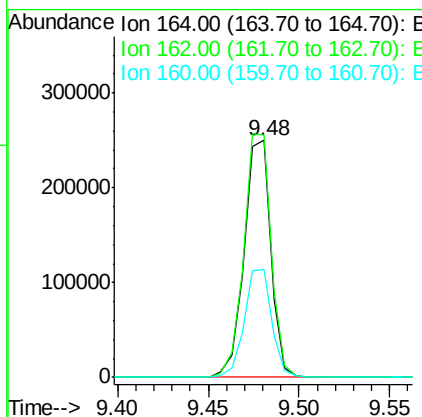
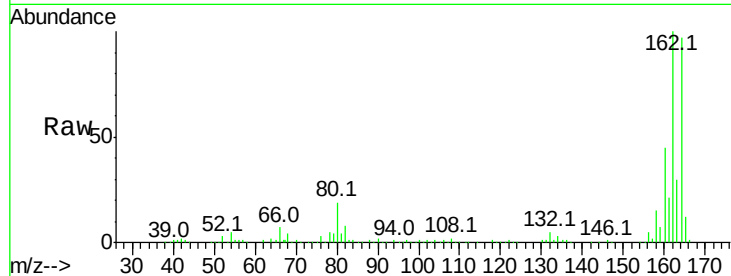
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.48 min Scan# 1291  
 Delta R.T. -0.02 min  
 Lab File: BF094347.D  
 Acq: 11 Apr 2017 9:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-32-S1(0-2)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 255343 |       |       |
| 162     | 102.6 | 82.6   | 123.8 |       |
| 160     | 45.7  | 36.2   | 54.2  |       |

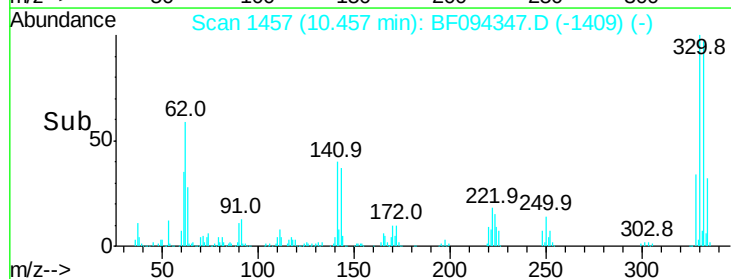
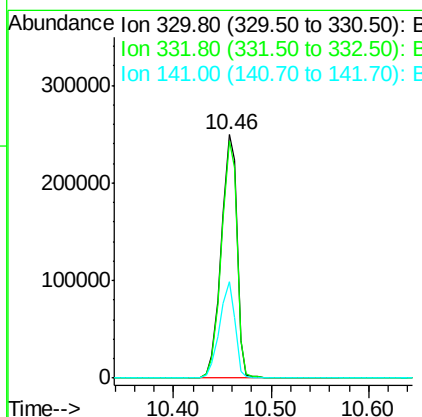
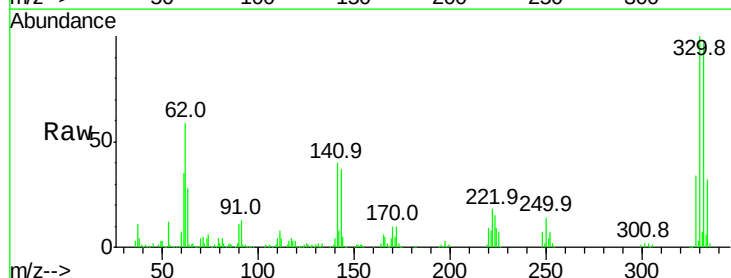
Manual Integrations  
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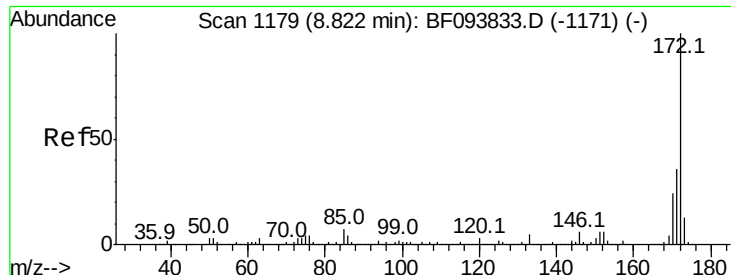
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#41  
 2,4,6-Tribromophenol  
 Concen: 139.93 ng  
 RT: 10.46 min Scan# 1457  
 Delta R.T. -0.02 min  
 Lab File: BF094347.D  
 Acq: 11 Apr 2017 9:11

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 282352 |       |       |
| 332     | 96.7  | 76.6   | 115.0 |       |
| 141     | 38.7  | 31.4   | 47.2  |       |





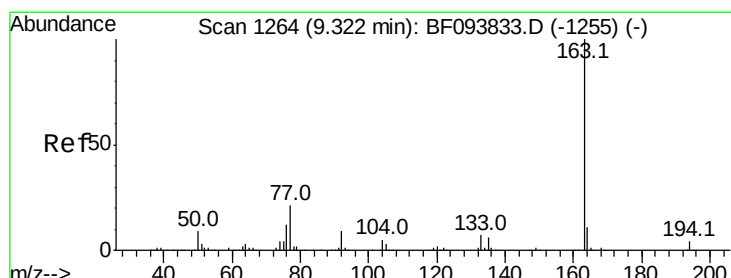
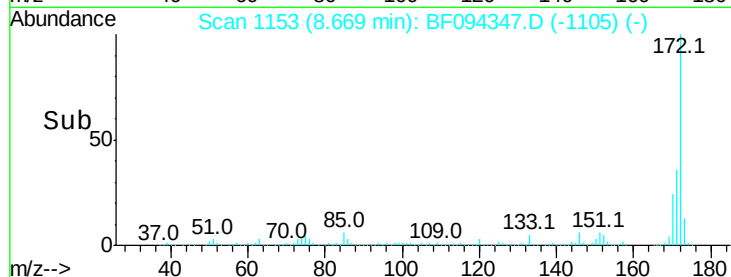
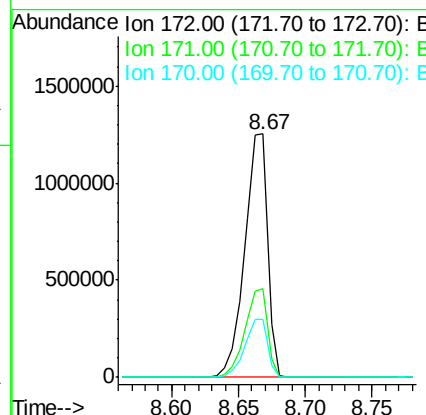
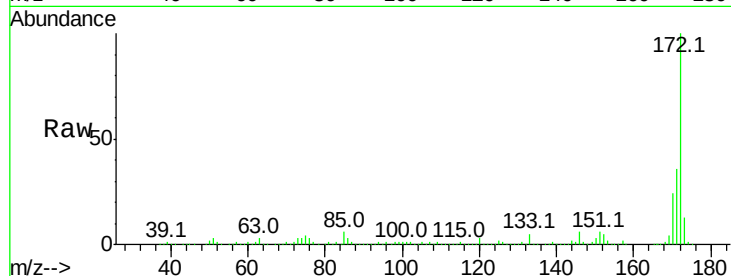
#44  
2-Fluorobiphenyl  
Concen: 88.62 ng  
RT: 8.67 min Scan# 1153  
Delta R.T. -0.02 min  
Lab File: BF094347.D  
Acq: 11 Apr 2017 9:11

Instrument :  
BNA\_F  
ClientSampleId :  
B-32-S1(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.4  | 29.6  | 44.4  |
| 170     | 24.0  | 19.8  | 29.8  |

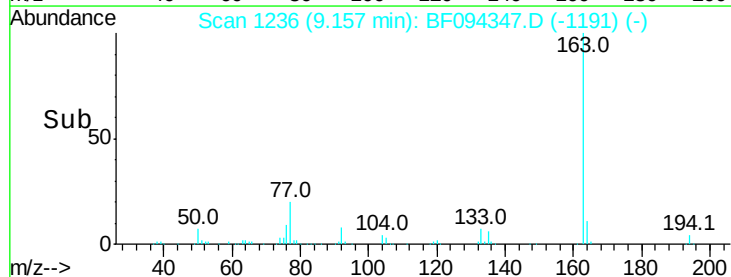
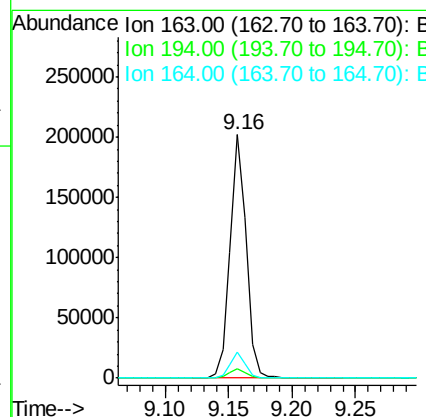
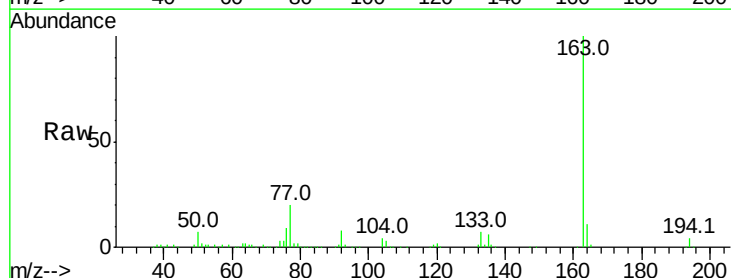
Manual Integrations  
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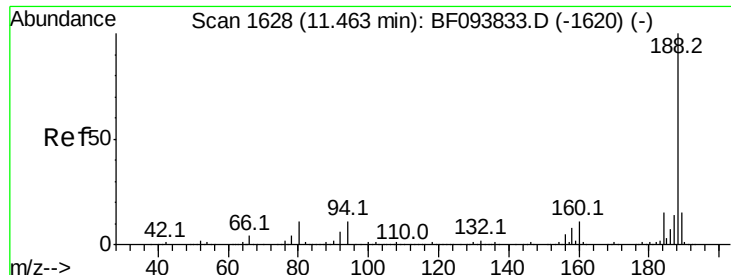
mohammad  
4/11/2017 12:53:46 PM



#49  
Dimethylphthalate  
Concen: 9.82 ng  
RT: 9.16 min Scan# 1236  
Delta R.T. -0.04 min  
Lab File: BF094347.D  
Acq: 11 Apr 2017 9:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.8   | 2.6   | 4.0   |
| 164     | 10.6  | 8.4   | 12.6  |





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.30 min Scan# 1600

Delta R.T. -0.02 min

Lab File: BF094347.D

Acq: 11 Apr 2017 9:11

Instrument :

BNA\_F

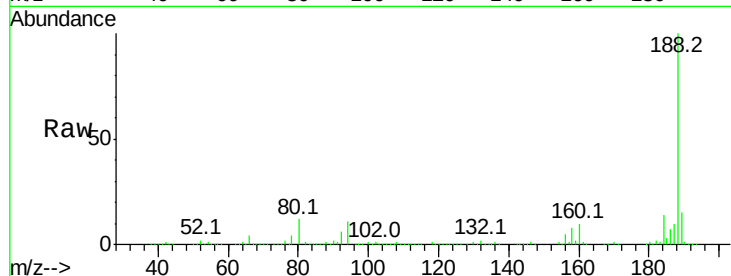
ClientSampleId :

B-32-S1(0-2)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 407554 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 10.7  | 9.4   | 14.2   |
| 80        | 12.2  | 10.2  | 15.2   |

Manual Integrations  
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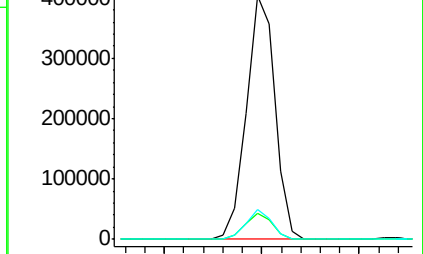
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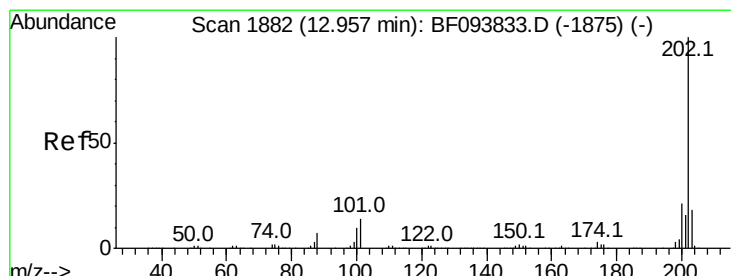
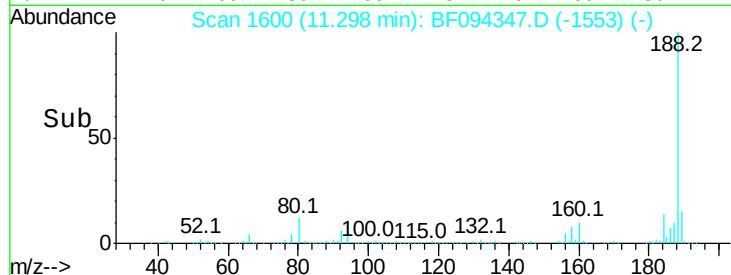
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



Time-->



#74

Fluoranthene

Concen: 2.72 ng

RT: 12.79 min Scan# 1854

Delta R.T. -0.02 min

Lab File: BF094347.D

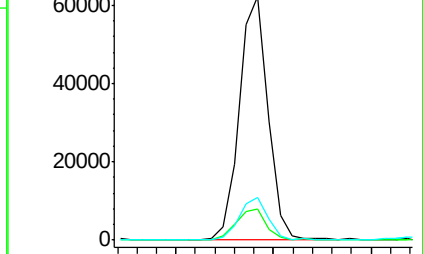
Acq: 11 Apr 2017 9:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 63190 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.6  | 0.0   | 33.2  |
| 203       | 17.5  | 0.0   | 38.1  |

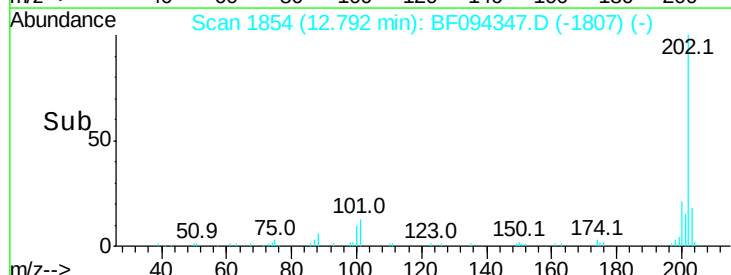
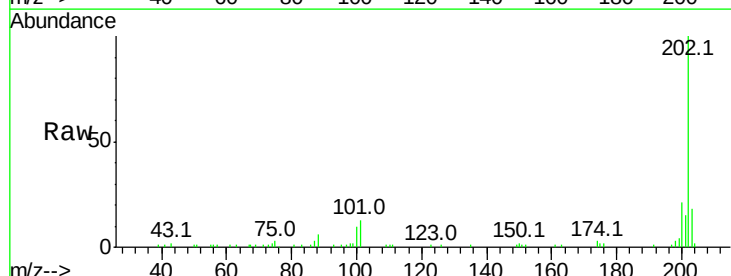
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

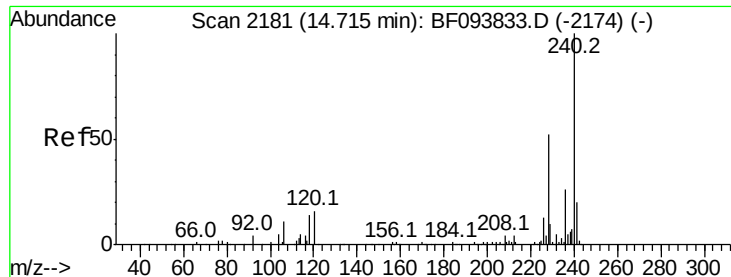
Ion 203.00 (202.70 to 203.70): E



Time-->







#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.55 min Scan# 2153

Delta R.T. -0.02 min

Lab File: BF094347.D

Acq: 11 Apr 2017 9:11

Instrument :

BNA\_F

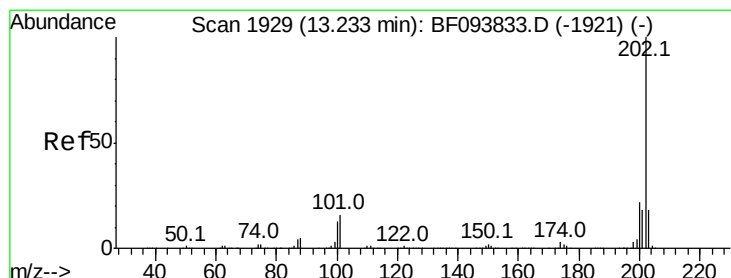
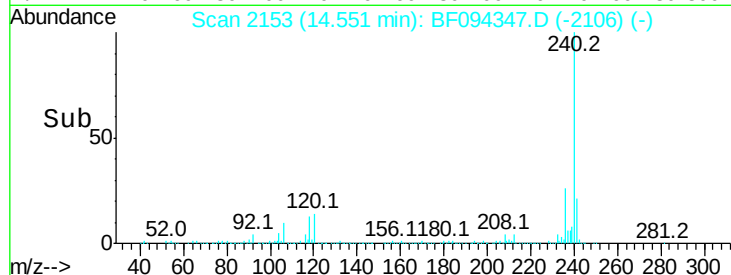
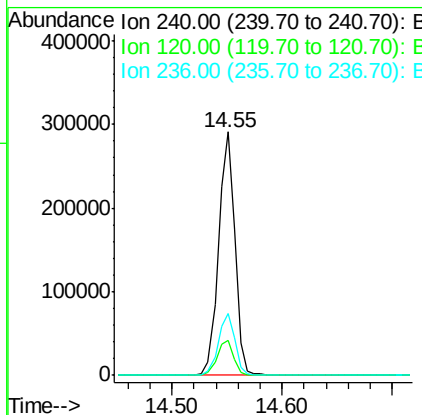
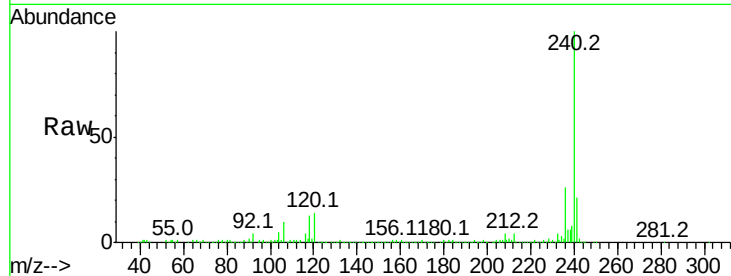
ClientSampleId :

B-32-S1(0-2)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 298150 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 14.1  | 5.8   | 8.8#   |
| 236       | 25.6  | 20.5  | 30.7   |

Manual Integrations  
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#77

Pyrene

Concen: 2.78 ng

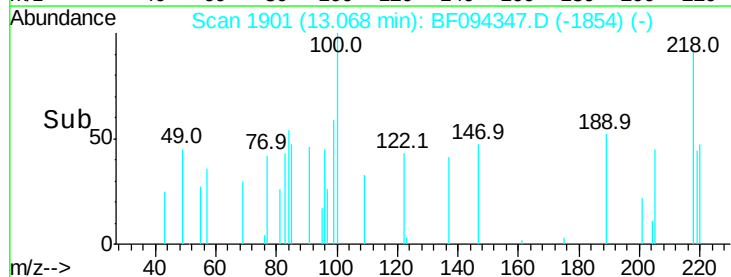
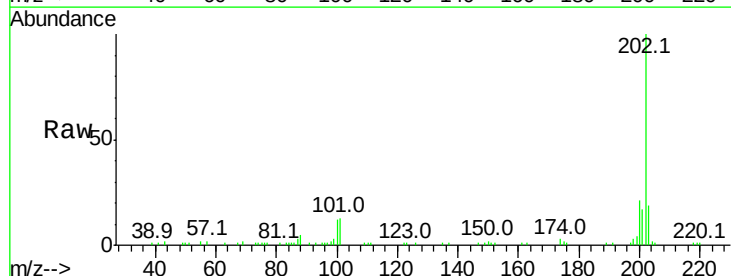
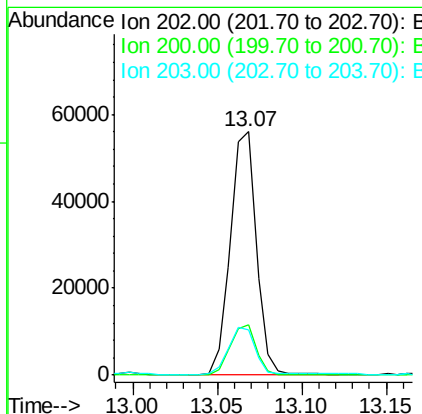
RT: 13.07 min Scan# 1901

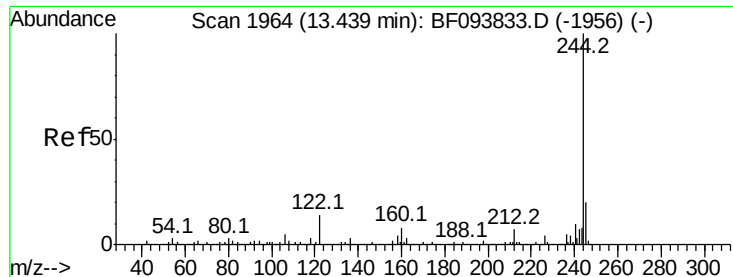
Delta R.T. -0.02 min

Lab File: BF094347.D

Acq: 11 Apr 2017 9:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 60233 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.5  | 17.6  | 26.4  |
| 203       | 18.7  | 14.4  | 21.6  |





#78

Terphenyl-d14

Concen: 69.60 ng

RT: 13.28 min Scan# 1937

Delta R.T. -0.02 min

Lab File: BF094347.D

Acq: 11 Apr 2017 9:11

Instrument :

BNA\_F

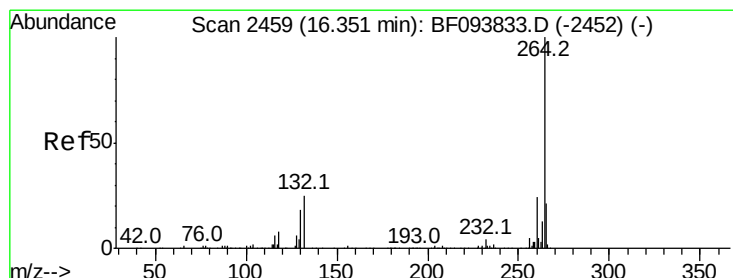
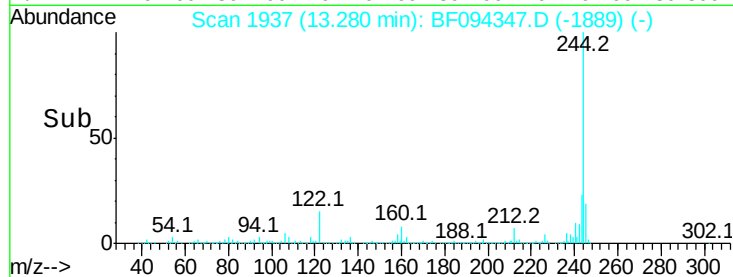
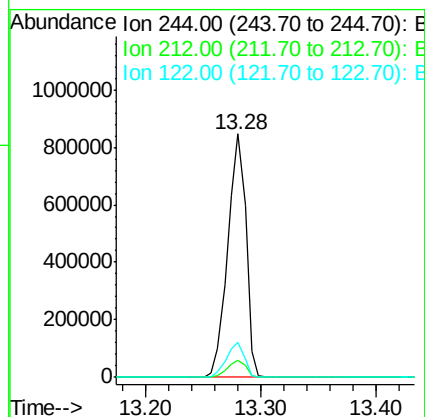
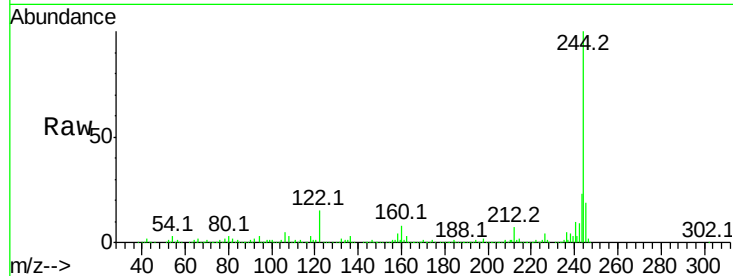
ClientSampleId :

B-32-S1(0-2)

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 244  | Resp: | 925803 |
| Ion Ratio |      | Lower | Upper  |
| 244       | 100  |       |        |
| 212       | 7.1  | 6.0   | 9.0    |
| 122       | 14.5 | 10.3  | 15.5   |

Manual Integrations  
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#86

Perylene-d12

Concen: 20.00 ng

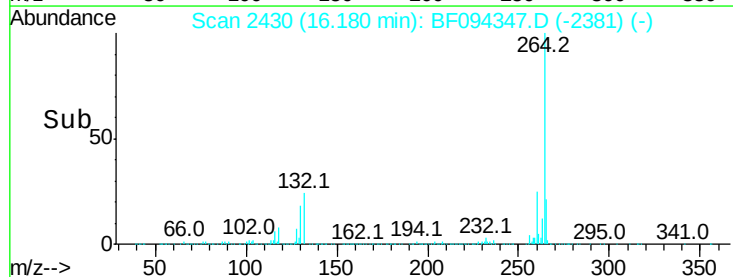
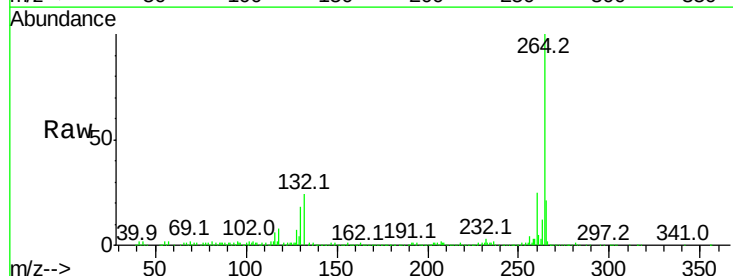
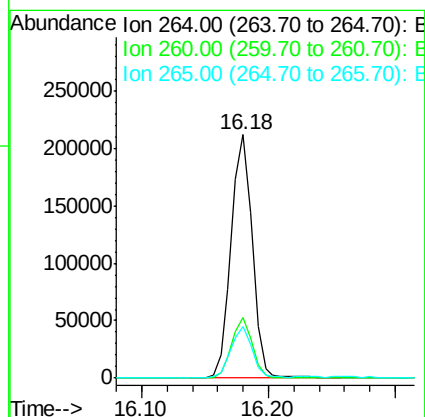
RT: 16.18 min Scan# 2430

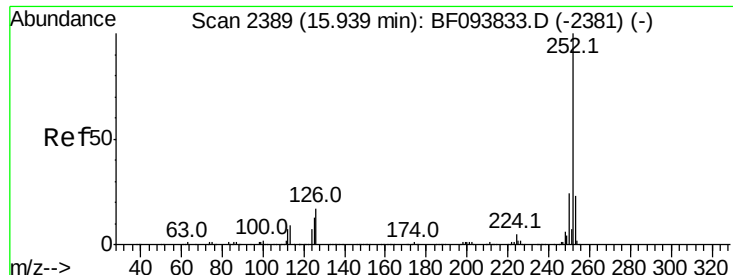
Delta R.T. -0.01 min

Lab File: BF094347.D

Acq: 11 Apr 2017 9:11

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 264  | Resp: | 245507 |
| Ion Ratio |      | Lower | Upper  |
| 264       | 100  |       |        |
| 260       | 25.1 | 19.5  | 29.3   |
| 265       | 21.1 | 17.2  | 25.8   |





#87  
 Benzo(b)fluoranthene  
 Concen: 2.45 ng m  
 RT: 15.77 min Scan# 2361  
 Delta R.T. -0.02 min  
 Lab File: BF094347.D  
 Acq: 11 Apr 2017 9:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-32-S1(0-2)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 36864 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.9  | 18.1  | 27.1  |
| 125       | 19.0  | 9.8   | 14.8# |

Manual Integrations  
 APPROVED

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 4/11/2017 12:53:46 PM

