

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF101015\  
 Data File : BF082213.D  
 Acq On : 11 Oct 2015 9:38  
 Operator : UM/IZ  
 Sample : G3921-03  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RS-COMP(1-8)

Manual Integrations  
 APPROVED

MMDadoda  
 10/12/2015 2:39:35 PM

Quant Time: Oct 12 04:50:11 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 12 02:59:50 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.83  | 152  | 91078    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.13  | 136  | 360726   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.89  | 164  | 160833   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.37 | 188  | 276595   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.01 | 240  | 246288   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.45 | 264  | 207093   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.44  | 112  | 480491   | 106.47 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.48  | 99   | 656649   | 111.81 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.41  | 82   | 366244   | 68.18  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.67 | 330  | 139769   | 92.67  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.20  | 172  | 583465   | 60.16  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.95 | 244  | 451371   | 48.57  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate          | 9.60  | 163  | 143706   | 12.69  | ng    | 99       |
| 70) Phenanthrene               | 11.39 | 178  | 93739    | 6.91   | ng    | 98       |
| 71) Anthracene                 | 11.44 | 178  | 32194    | 2.30   | ng    | 99       |
| 74) Fluoranthene               | 12.58 | 202  | 177012   | 12.16  | ng    | 97       |
| 77) Pyrene                     | 12.81 | 202  | 157097   | 10.75  | ng    | 96       |
| 80) Benzo(a)anthracene         | 14.00 | 228  | 84568m   | 6.60   | ng    |          |
| 82) Chrysene                   | 14.04 | 228  | 78475m   | 5.81   | ng    |          |
| 83) Bis(2-ethylhexyl)phthalate | 13.99 | 149  | 195381   | 20.53  | ng    | 100      |
| 85) Indeno(1,2,3-cd)pyrene     | 16.85 | 276  | 38311    | 3.57   | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 15.03 | 252  | 104412m  | 8.29   | ng    |          |
| 88) Benzo(k)fluoranthene       | 15.05 | 252  | 23463m   | 2.22   | ng    |          |
| 89) Benzo(a)pyrene             | 15.38 | 252  | 67119    | 6.20   | ng    | 99       |
| 91) Benzo(g,h,i)perylene       | 17.28 | 276  | 35711    | 4.14   | ng    | 95       |

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

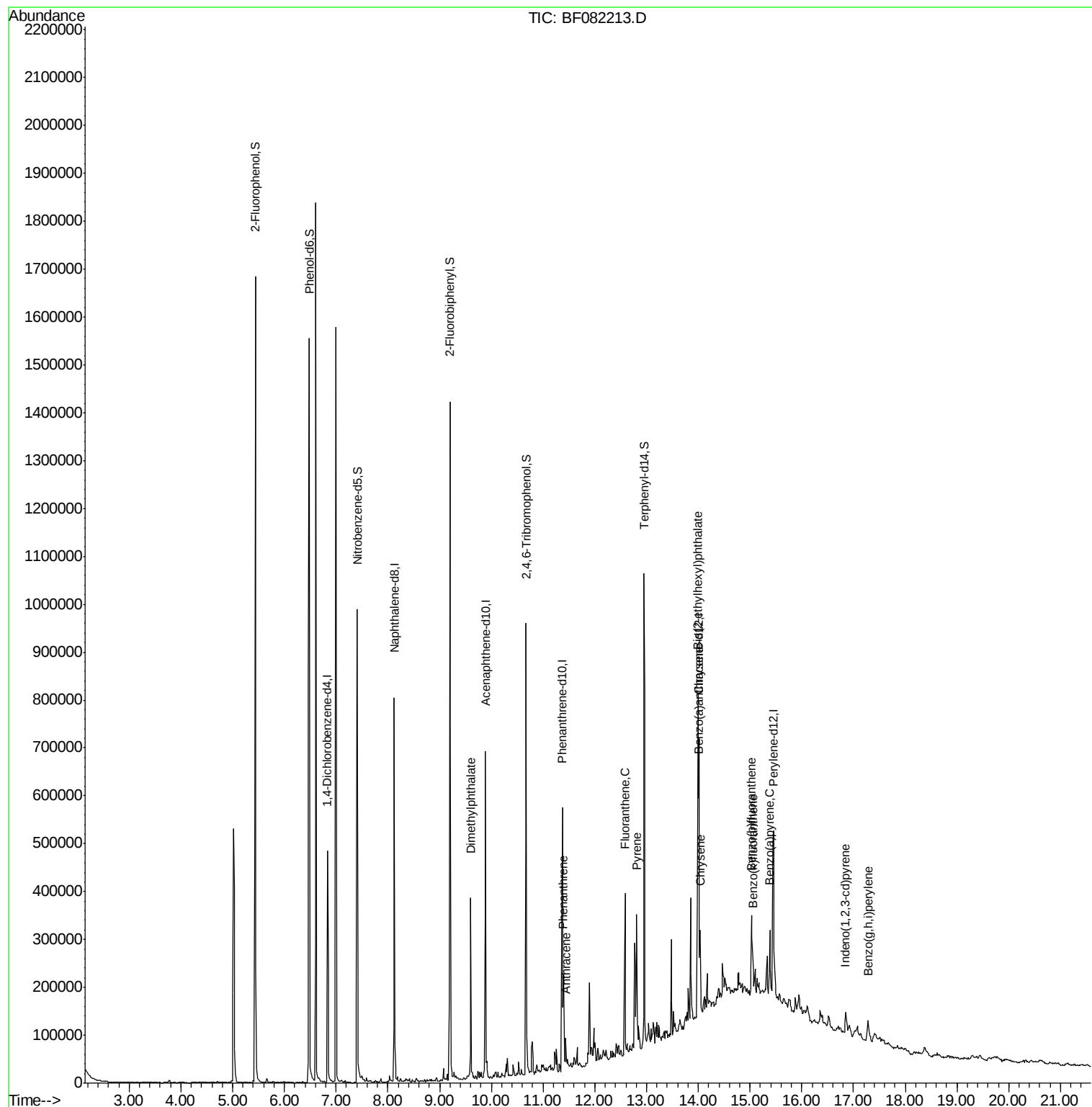
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF101015\  
Data File : BF082213.D  
Acq On : 11 Oct 2015 9:38  
Operator : UM/IZ  
Sample : G3921-03  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

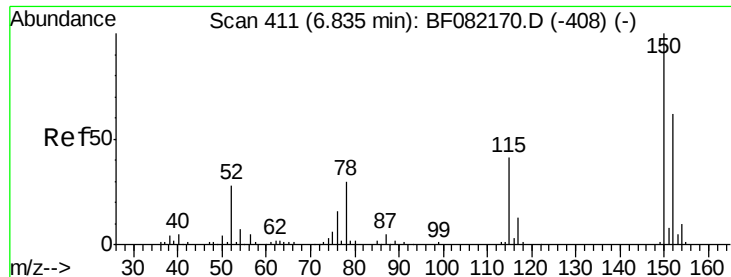
Instrument :  
BNA\_F  
ClientSampleId :  
RS-COMP(1-8)

Manual Integrations  
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10/12/2015 2:39:35 PM

Quant Time: Oct 12 04:50:11 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 12 02:59:50 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 411

Delta R.T. 0.00 min

Lab File: BF082213.D

Acq: 11 Oct 2015 9:38

Instrument :

BNA\_F

ClientSampleId :

RS-COMP(1-8)

Tgt Ion:152 Resp: 91078

Ion Ratio Lower Upper

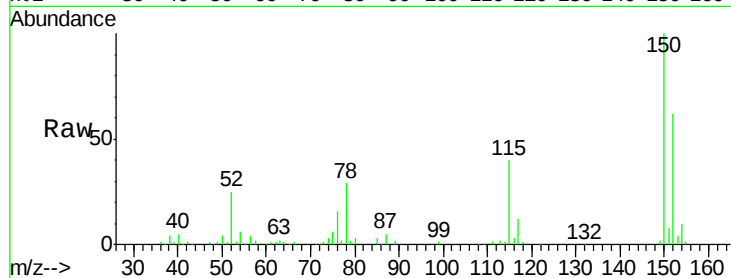
152 100

150 162.2 129.0 193.4

115 64.9 52.1 78.1

Manual Integrations  
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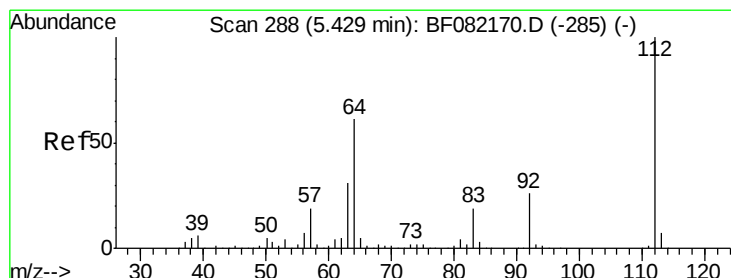
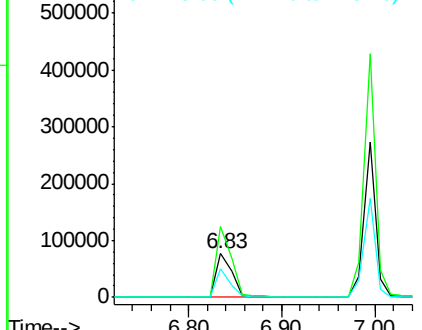
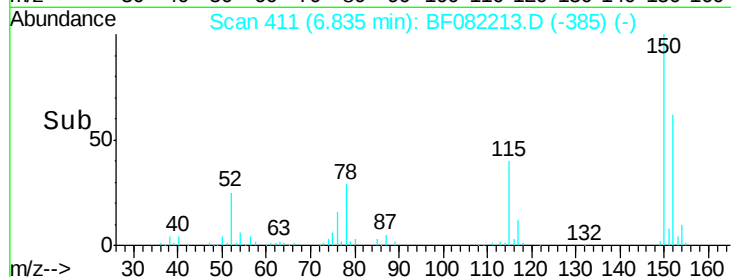
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 106.47 ng

RT: 5.44 min Scan# 289

Delta R.T. 0.01 min

Lab File: BF082213.D

Acq: 11 Oct 2015 9:38

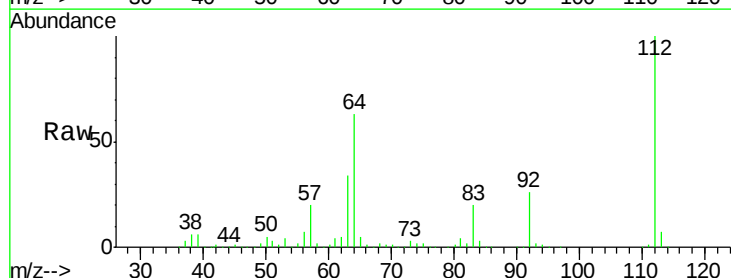
Tgt Ion:112 Resp: 480491

Ion Ratio Lower Upper

112 100

64 63.4 48.6 73.0

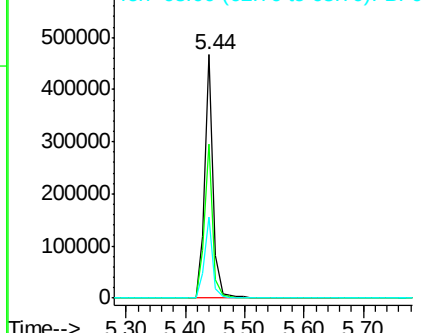
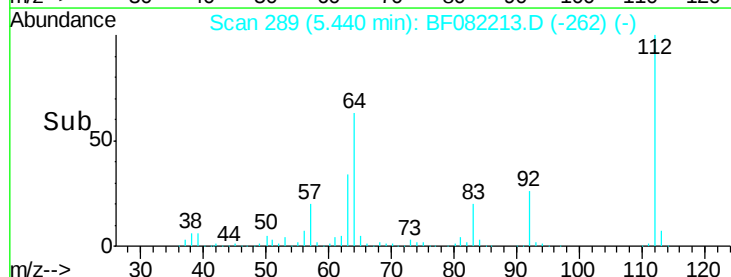
63 33.5 25.1 37.7

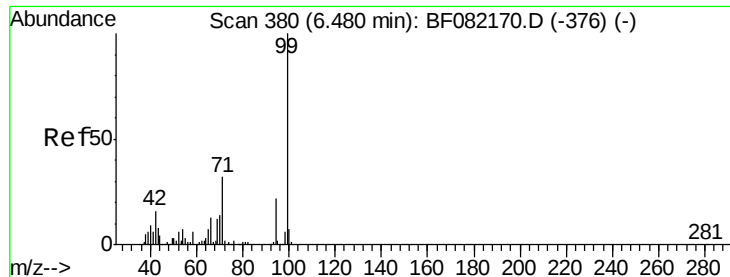


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 111.81 ng

RT: 6.48 min Scan# 380

Delta R.T. 0.00 min

Lab File: BF082213.D

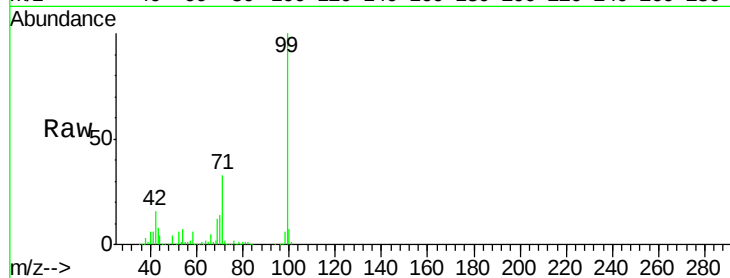
Acq: 11 Oct 2015 9:38

Instrument :

BNA\_F

ClientSampleId :

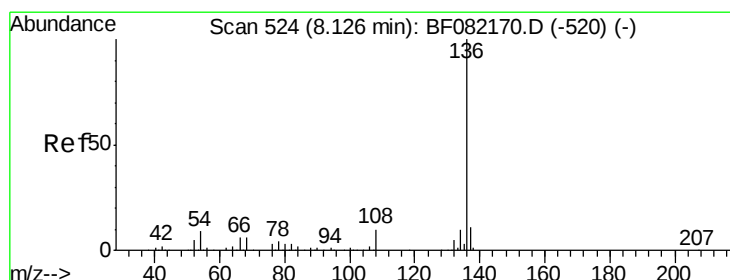
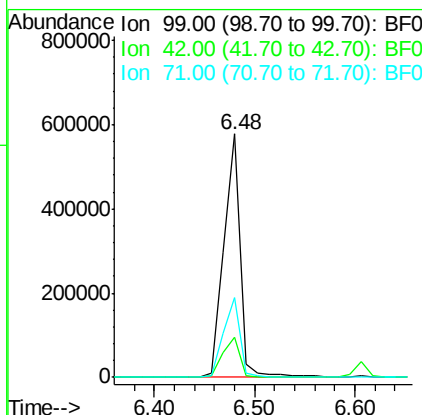
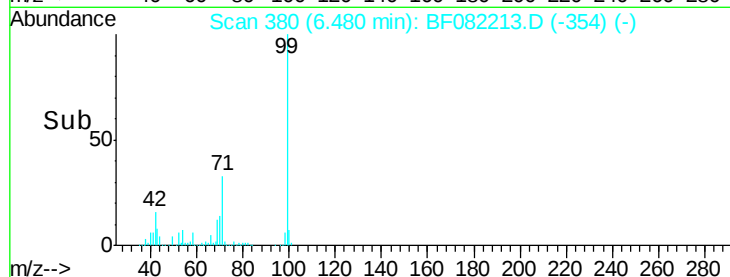
RS-COMP(1-8)



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 99      | 100   | 656649 |       |       |
| 42      | 16.3  | 13.2   | 19.8  |       |
| 71      | 32.9  | 25.6   | 38.4  |       |

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#21

Naphthalene-d8

Concen: 20.00 ng

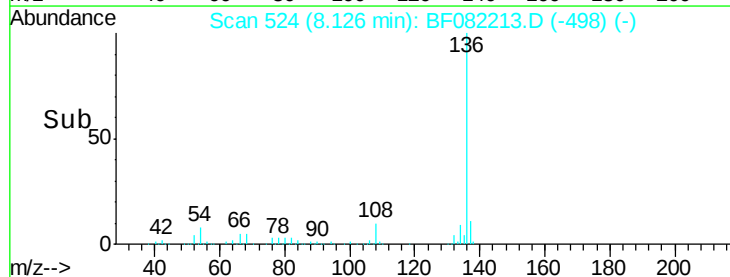
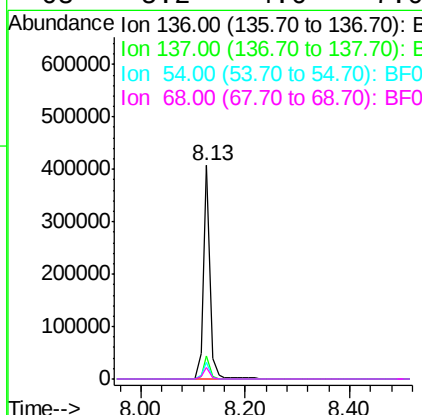
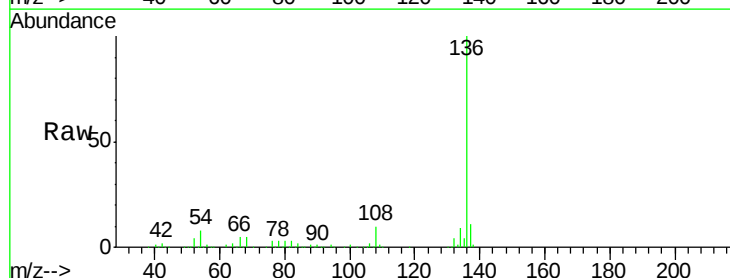
RT: 8.13 min Scan# 524

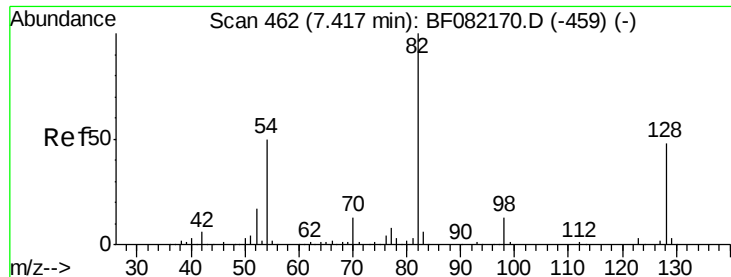
Delta R.T. 0.00 min

Lab File: BF082213.D

Acq: 11 Oct 2015 9:38

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 360726 |       |       |
| 137     | 10.9  | 9.0    | 13.6  |       |
| 54      | 8.1   | 7.5    | 11.3  |       |
| 68      | 5.2   | 4.6    | 7.0   |       |





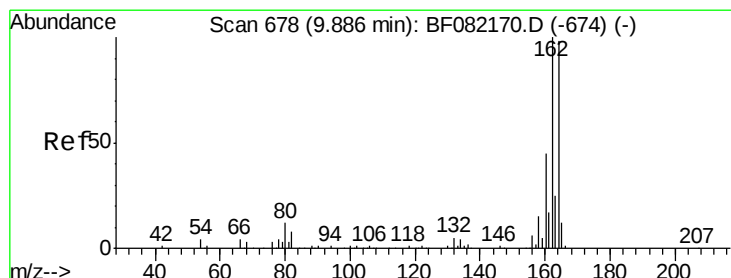
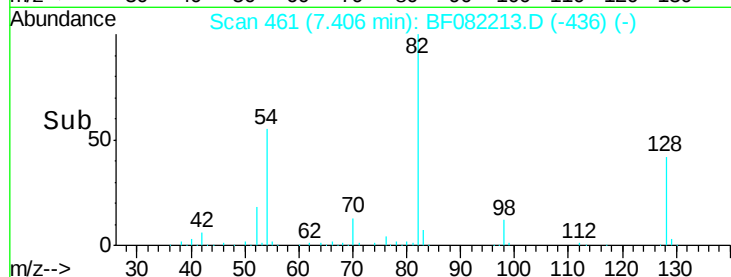
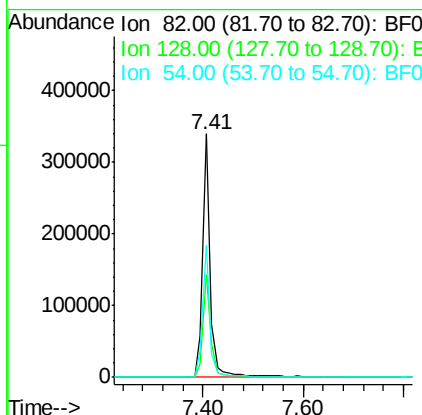
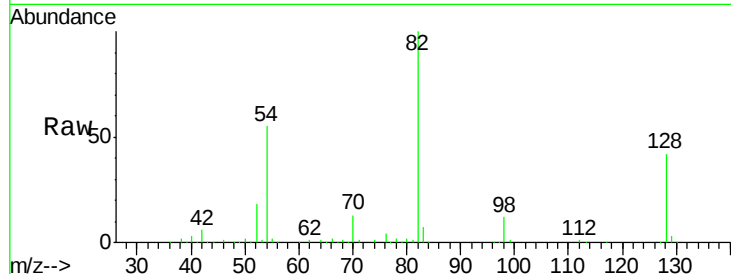
#23  
 Nitrobenzene-d5  
 Concen: 68.18 ng  
 RT: 7.41 min Scan# 461  
 Delta R.T. -0.01 min  
 Lab File: BF082213.D  
 Acq: 11 Oct 2015 9:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RS-COMP(1-8)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.1  | 38.7  | 58.1  |
| 54      | 54.5  | 40.1  | 60.1  |

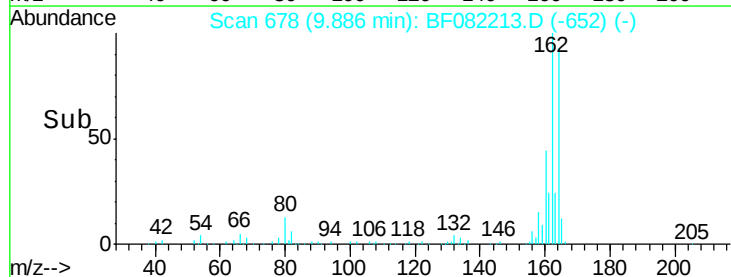
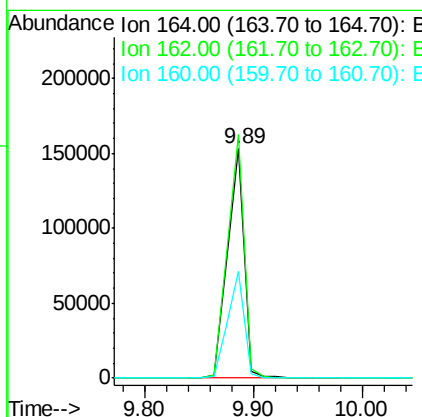
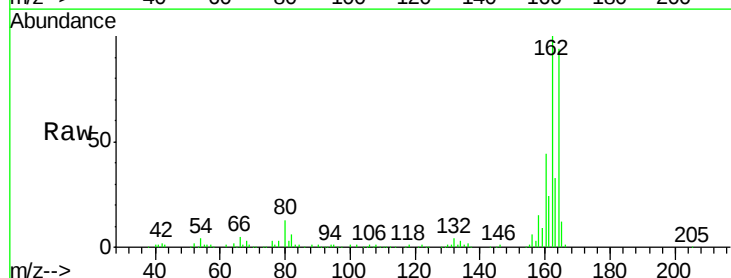
Manual Integrations  
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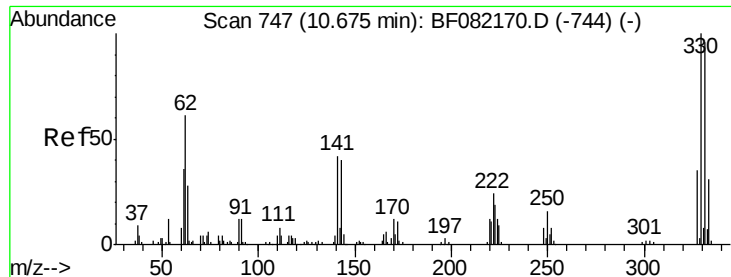
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.89 min Scan# 678  
 Delta R.T. 0.00 min  
 Lab File: BF082213.D  
 Acq: 11 Oct 2015 9:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.2 | 81.6  | 122.4 |
| 160     | 46.6  | 36.4  | 54.6  |





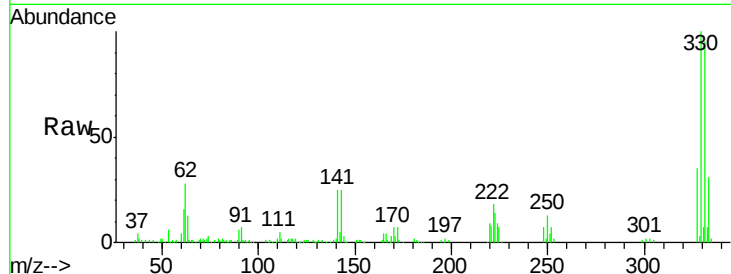
#41  
 2,4,6-Tribromophenol  
 Concen: 92.67 ng  
 RT: 10.67 min Scan# 747  
 Delta R.T. 0.00 min  
 Lab File: BF082213.D  
 Acq: 11 Oct 2015 9:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RS-COMP(1-8)

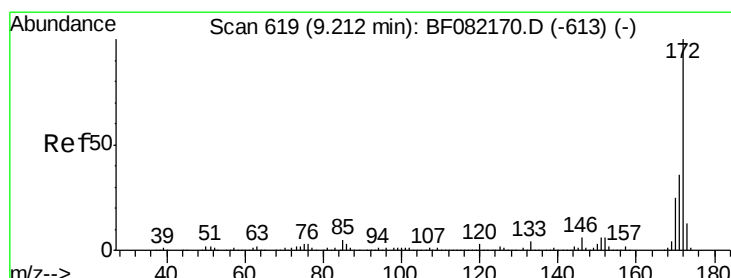
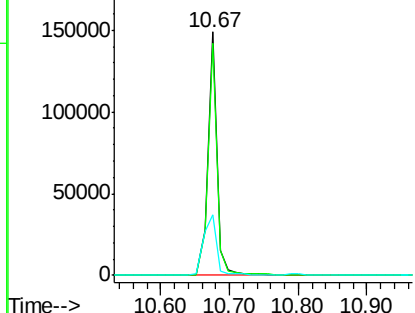
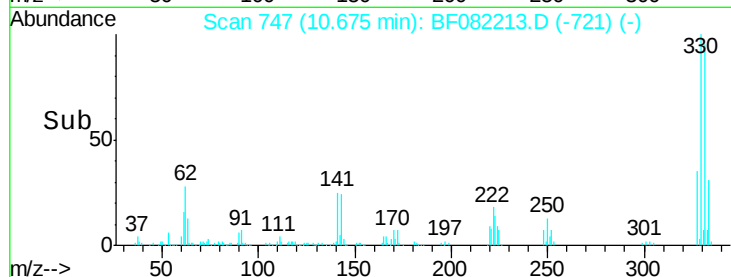
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 139769 |       |       |
| 332     | 95.5  | 77.1   | 115.7 |       |
| 141     | 35.4  | 29.8   | 44.8  |       |

Manual Integrations  
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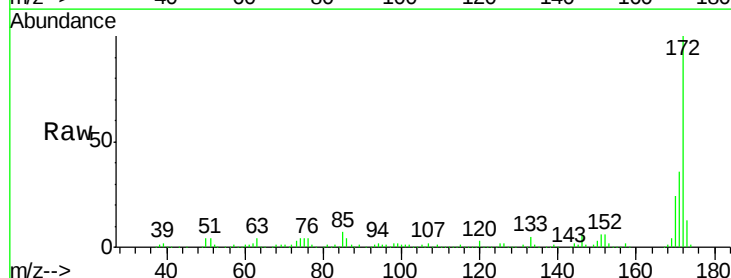


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

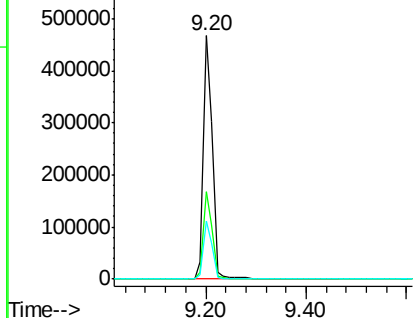
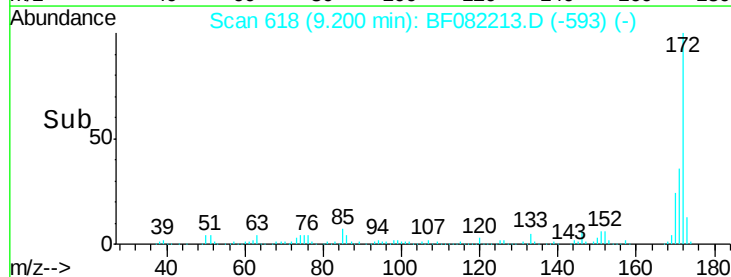


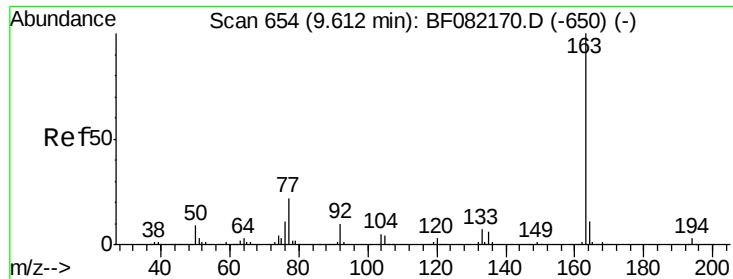
#44  
 2-Fluorobiphenyl  
 Concen: 60.16 ng  
 RT: 9.20 min Scan# 618  
 Delta R.T. -0.01 min  
 Lab File: BF082213.D  
 Acq: 11 Oct 2015 9:38

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 583465 |       |       |
| 171     | 35.7  | 28.6   | 42.8  |       |
| 170     | 23.7  | 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





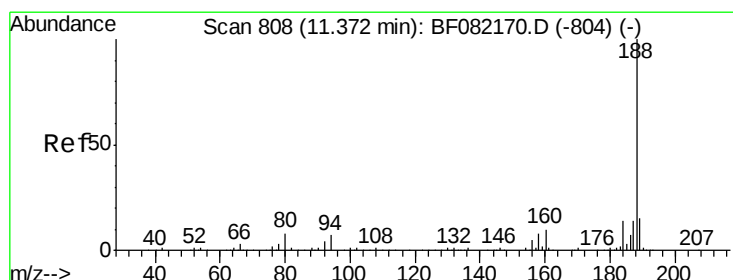
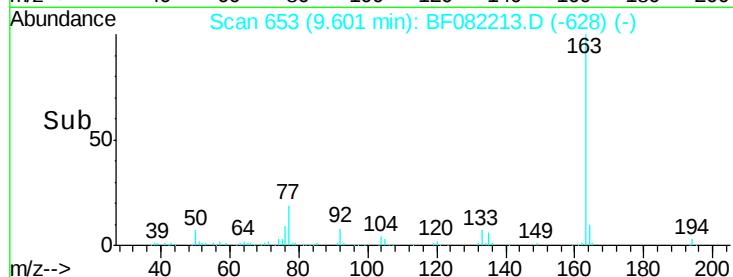
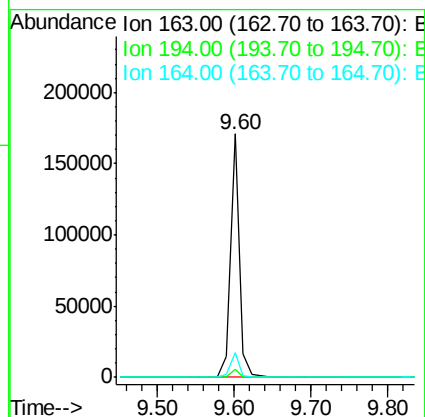
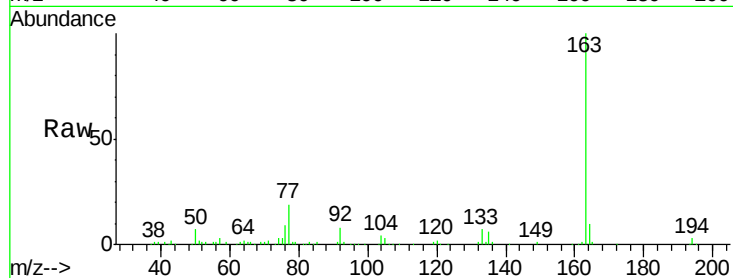
#49  
Dimethylphthalate  
Concen: 12.69 ng  
RT: 9.60 min Scan# 653  
Delta R.T. -0.01 min  
Lab File: BF082213.D  
Acq: 11 Oct 2015 9:38

Instrument :  
BNA\_F  
ClientSampleId :  
RS-COMP(1-8)

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 163     | 100   |            |            |
| 194     | 3.4   | 2.6        | 4.0        |
| 164     | 9.9   | 8.5        | 12.7       |

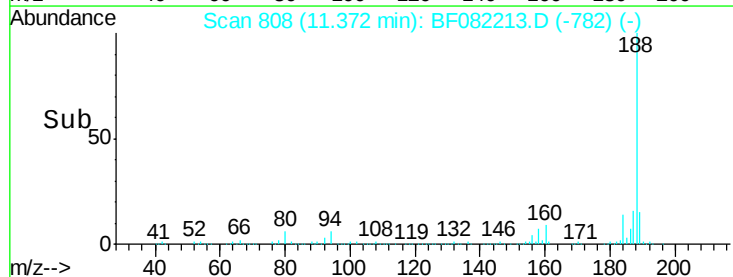
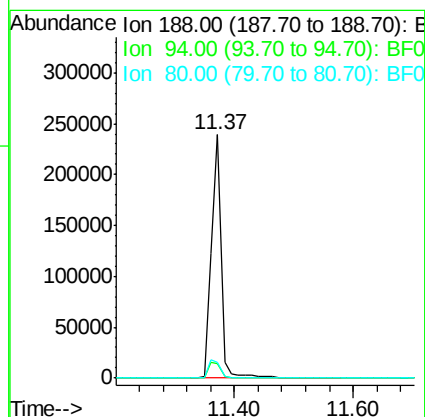
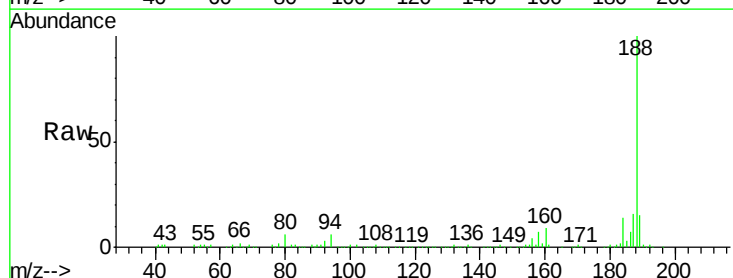
Manual Integrations  
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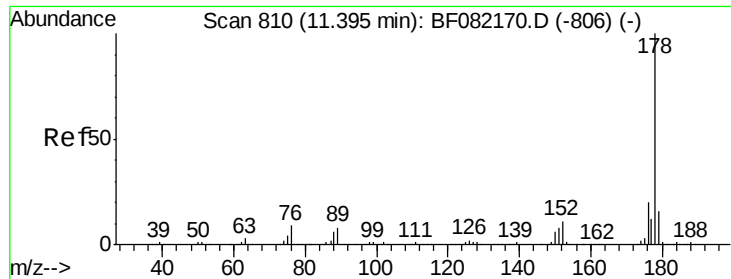
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10/12/2015 2:39:35 PM



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.37 min Scan# 808  
Delta R.T. 0.00 min  
Lab File: BF082213.D  
Acq: 11 Oct 2015 9:38

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 6.1   | 5.8        | 8.6        |
| 80      | 6.2   | 6.4        | 9.6#       |





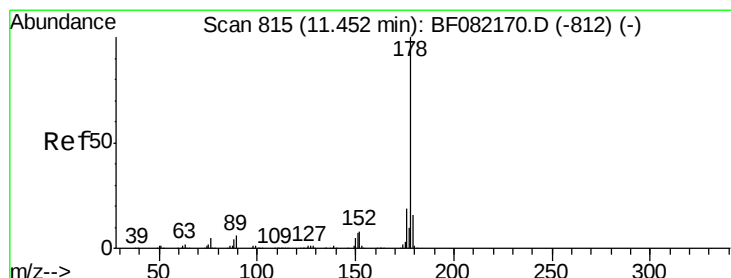
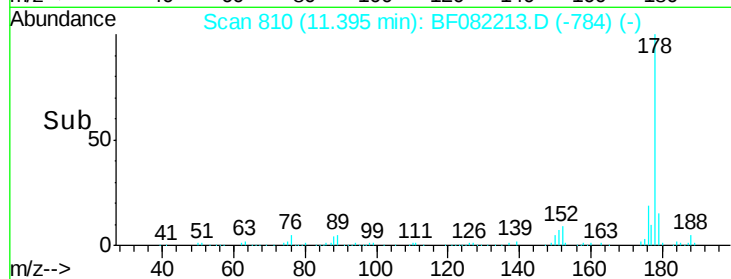
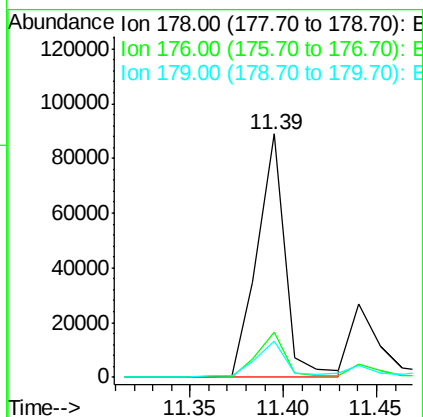
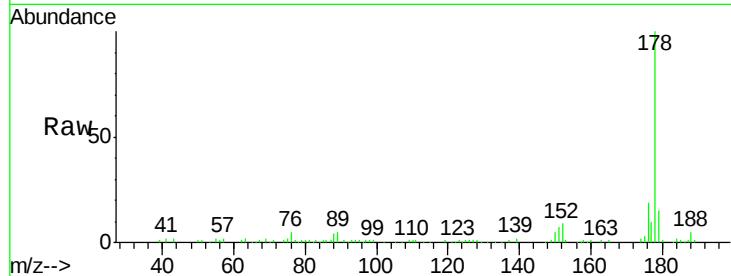
#70  
Phenanthrene  
Concen: 6.91 ng  
RT: 11.39 min Scan# 810  
Delta R.T. 0.00 min  
Lab File: BF082213.D  
Acq: 11 Oct 2015 9:38

Instrument :  
BNA\_F  
ClientSampleId :  
RS-COMP(1-8)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.7  | 16.0  | 24.0  |
| 179     | 14.9  | 12.6  | 19.0  |

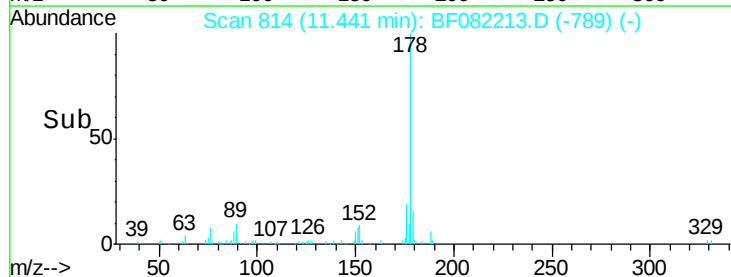
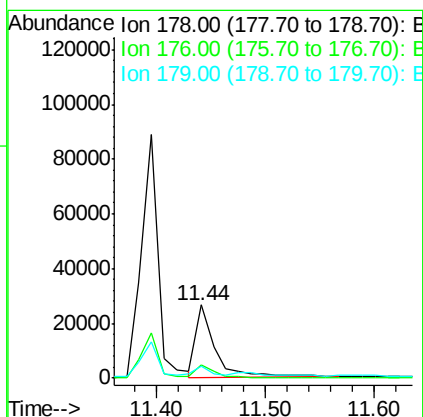
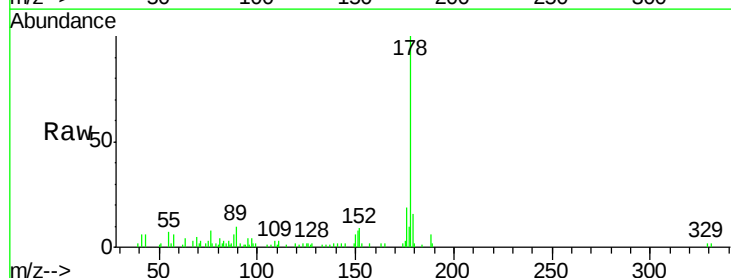
Manual Integrations  
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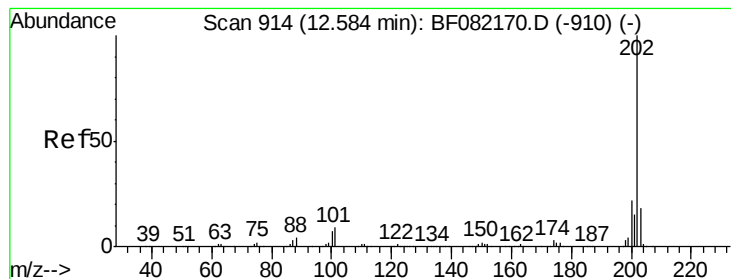
MMDadoda  
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#71  
Anthracene  
Concen: 2.30 ng  
RT: 11.44 min Scan# 814  
Delta R.T. -0.01 min  
Lab File: BF082213.D  
Acq: 11 Oct 2015 9:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 15.4  | 23.0  |
| 179     | 16.4  | 12.5  | 18.7  |





#74

Fluoranthene

Concen: 12.16 ng

RT: 12.58 min Scan# 914

Delta R.T. 0.00 min

Lab File: BF082213.D

Acq: 11 Oct 2015 9:38

Instrument :

BNA\_F

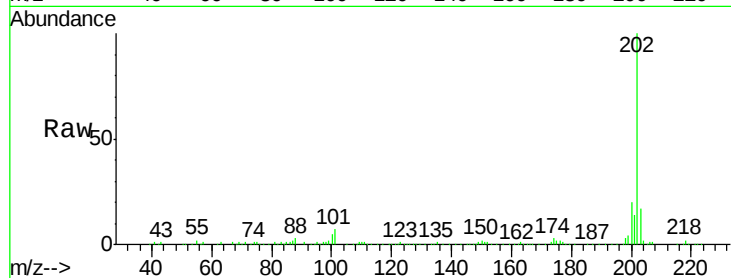
ClientSampleId :

RS-COMP(1-8)

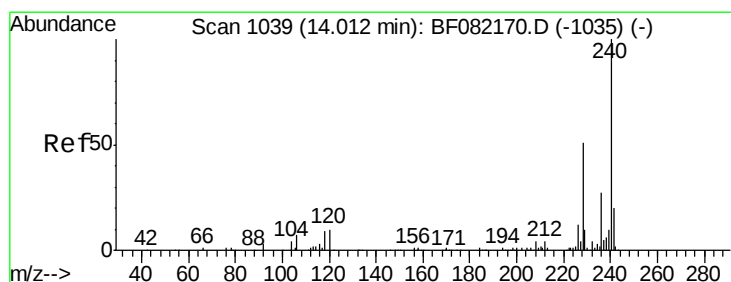
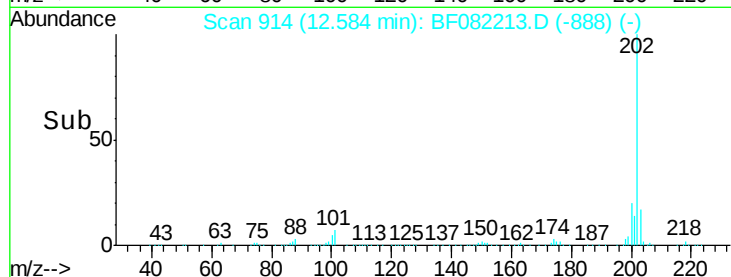
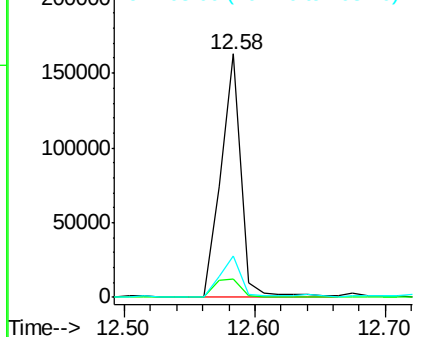
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:202 | Resp: | 177012 |
| Ion | Ratio   | Lower | Upper  |
| 202 | 100     |       |        |
| 101 | 7.4     | 0.0   | 29.3   |
| 203 | 16.9    | 0.0   | 37.8   |

Manual Integrations  
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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

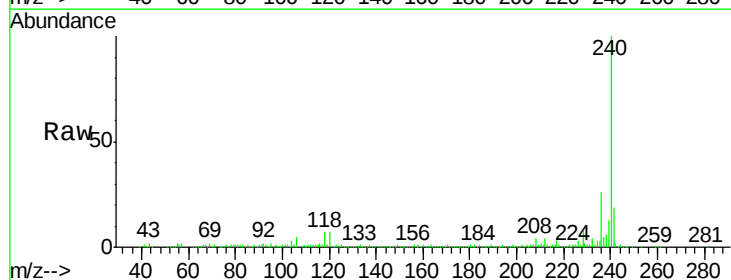
RT: 14.01 min Scan# 1039

Delta R.T. 0.00 min

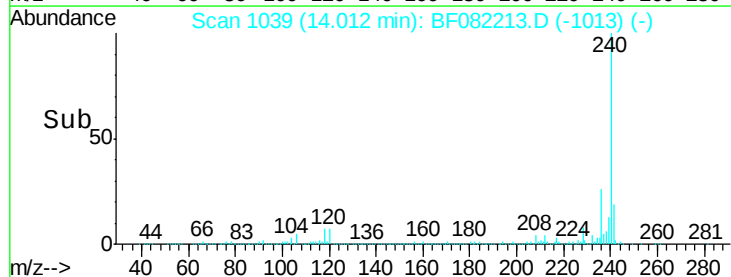
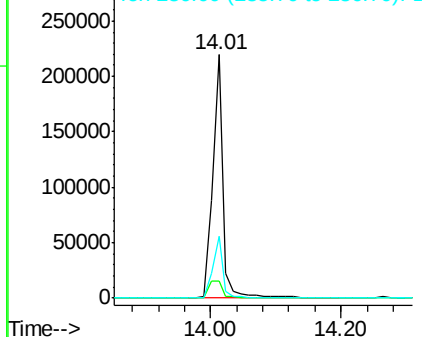
Lab File: BF082213.D

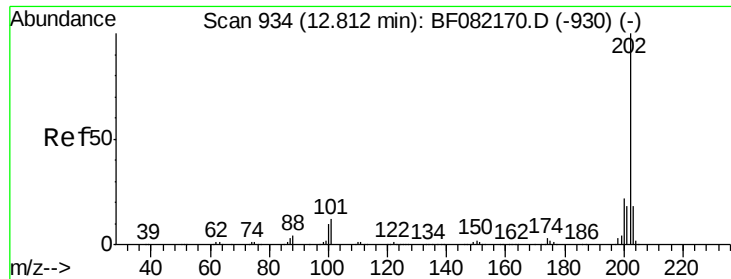
Acq: 11 Oct 2015 9:38

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:240 | Resp: | 246288 |
| Ion | Ratio   | Lower | Upper  |
| 240 | 100     |       |        |
| 120 | 7.1     | 8.1   | 12.1#  |
| 236 | 25.6    | 21.3  | 31.9   |



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: 10.75 ng

RT: 12.81 min Scan# 934

Delta R.T. 0.00 min

Lab File: BF082213.D

Acq: 11 Oct 2015 9:38

Instrument :

BNA\_F

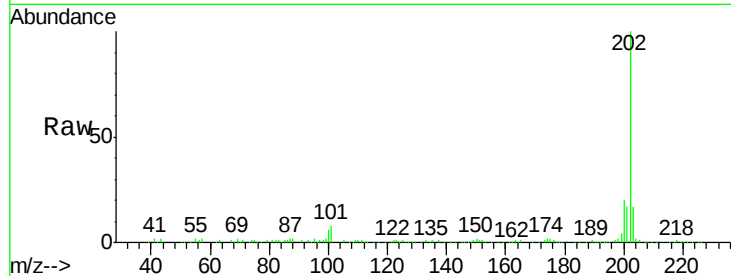
ClientSampleId :

RS-COMP(1-8)

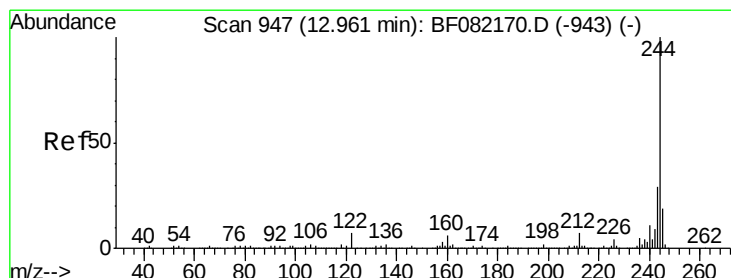
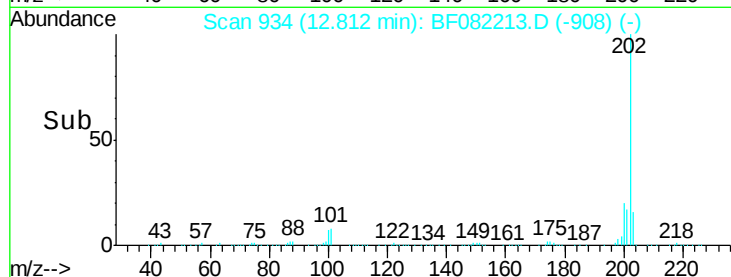
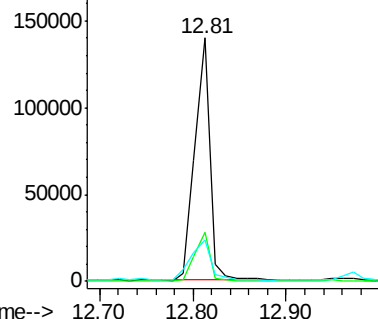
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 202  | Resp: | 157097 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 20.2 | 17.9  | 26.9   |
| 203       | 17.0 | 14.5  | 21.7   |

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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: 48.57 ng

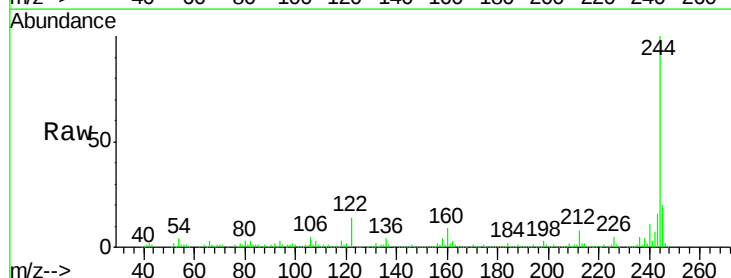
RT: 12.95 min Scan# 946

Delta R.T. -0.01 min

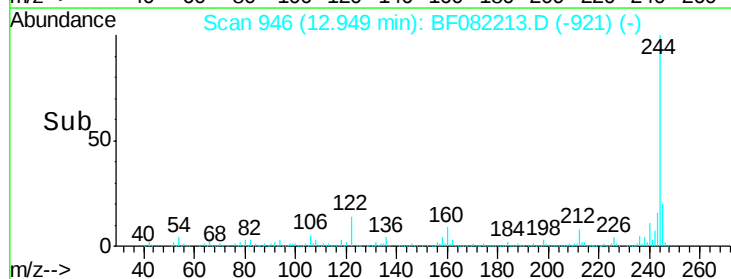
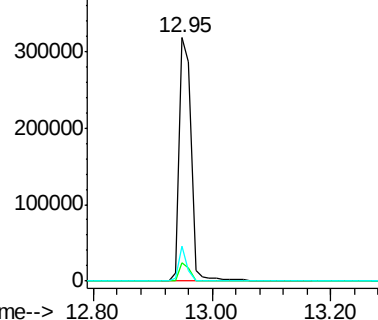
Lab File: BF082213.D

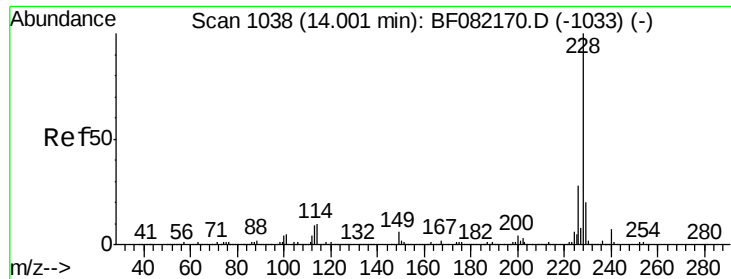
Acq: 11 Oct 2015 9:38

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 244  | Resp: | 451371 |
| Ion Ratio |      | Lower | Upper  |
| 244       | 100  |       |        |
| 212       | 7.7  | 5.8   | 8.6    |
| 122       | 14.4 | 5.9   | 8.9#   |



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: 6.60 ng m

RT: 14.00 min Scan# 1038

Delta R.T. 0.00 min

Lab File: BF082213.D

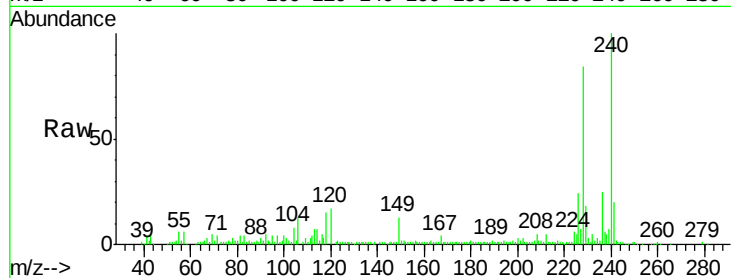
Acq: 11 Oct 2015 9:38

Instrument :

BNA\_F

ClientSampleId :

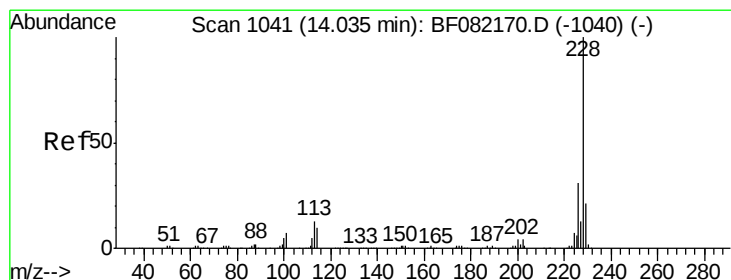
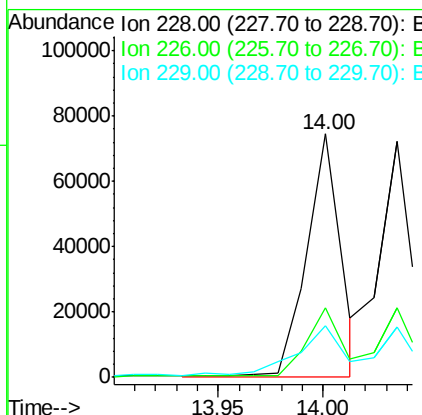
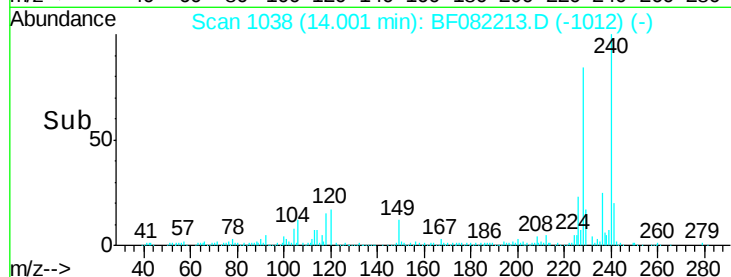
RS-COMP(1-8)



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.3  | 22.3  | 33.5  |
| 229     | 21.3  | 16.2  | 24.2  |

Manual Integrations  
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#82

Chrysene

Concen: 5.81 ng m

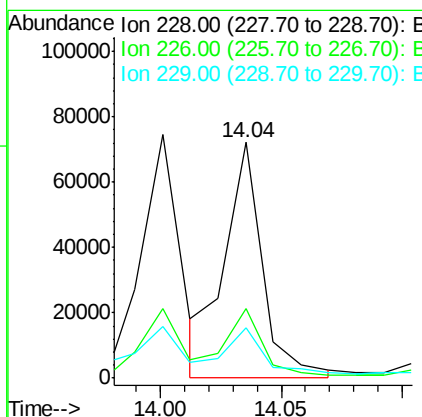
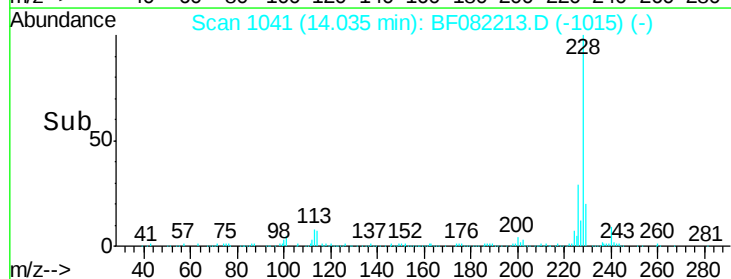
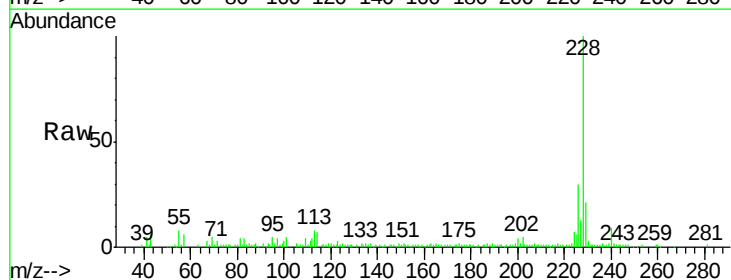
RT: 14.04 min Scan# 1041

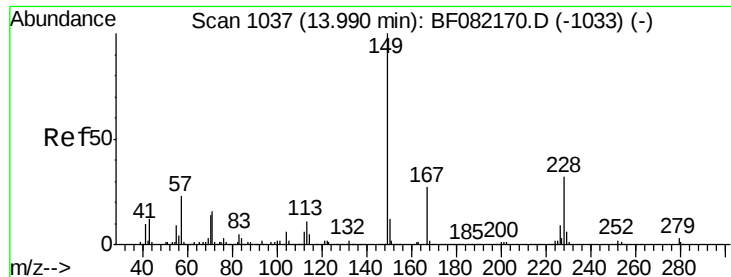
Delta R.T. 0.00 min

Lab File: BF082213.D

Acq: 11 Oct 2015 9:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 24.4  | 36.6  |
| 229     | 21.5  | 16.3  | 24.5  |





#83

Bis(2-ethylhexyl)phthalate

Concen: 20.53 ng

RT: 13.99 min Scan# 1037

Delta R.T. 0.00 min

Lab File: BF082213.D

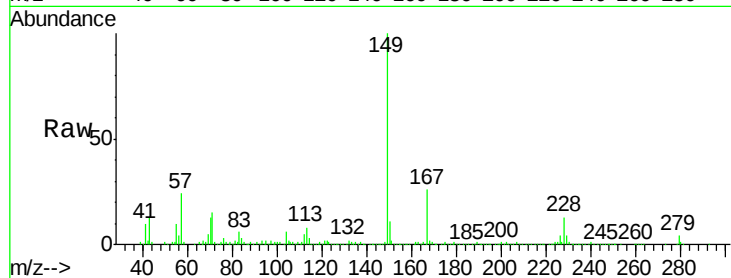
Acq: 11 Oct 2015 9:38

Instrument :

BNA\_F

ClientSampleId :

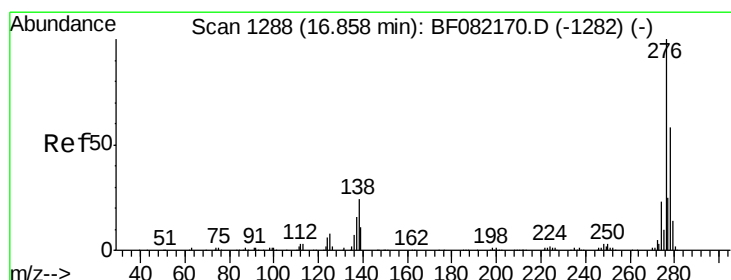
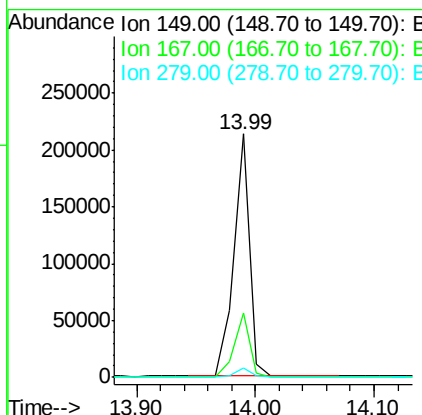
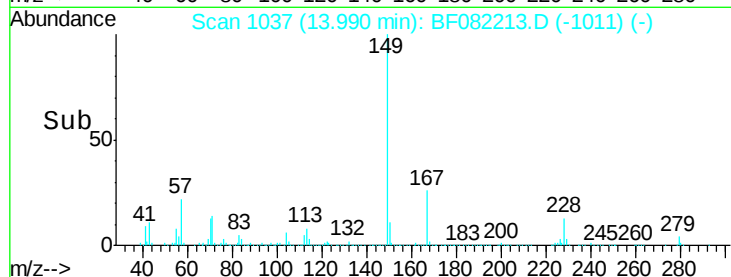
RS-COMP(1-8)



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 195381 |       |       |
| 167     | 26.5  | 21.3   | 31.9  |       |
| 279     | 3.6   | 2.6    | 4.0   |       |

Manual Integrations  
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#85

Indeno(1,2,3-cd)pyrene

Concen: 3.57 ng

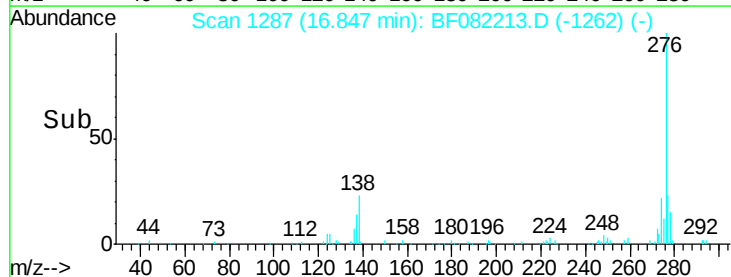
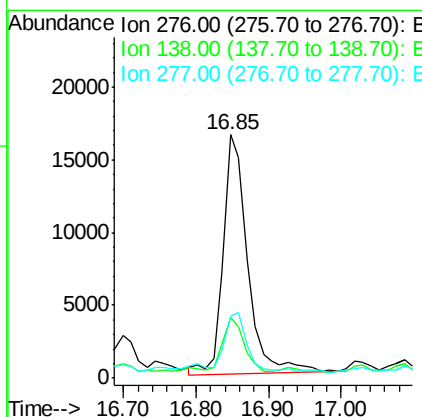
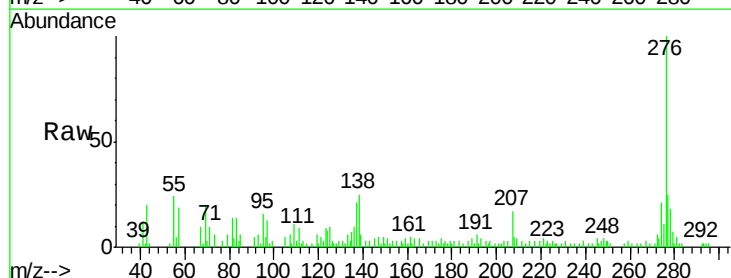
RT: 16.85 min Scan# 1287

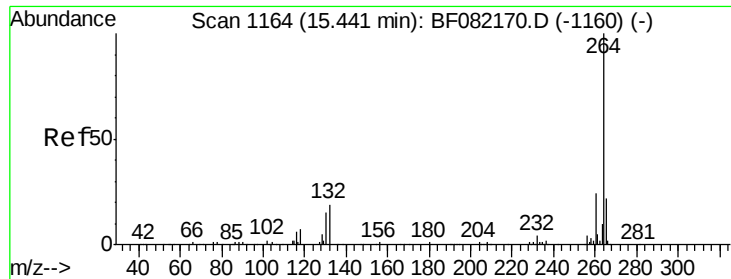
Delta R.T. -0.01 min

Lab File: BF082213.D

Acq: 11 Oct 2015 9:38

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 276     | 100   | 38311 |       |       |
| 138     | 22.3  | 19.7  | 29.5  |       |
| 277     | 24.8  | 20.1  | 30.1  |       |





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.45 min Scan# 1165

Delta R.T. 0.01 min

Lab File: BF082213.D

Acq: 11 Oct 2015 9:38

Instrument :

BNA\_F

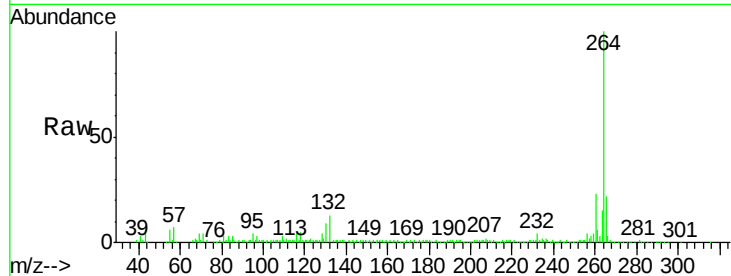
ClientSampleId :

RS-COMP(1-8)

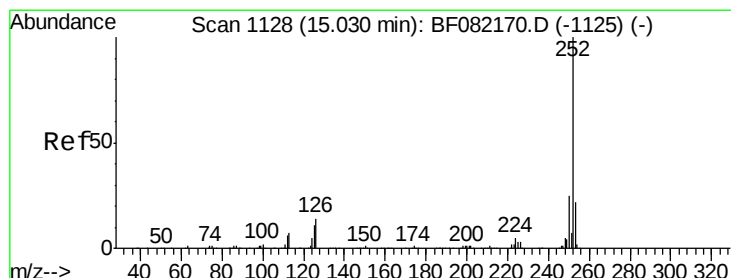
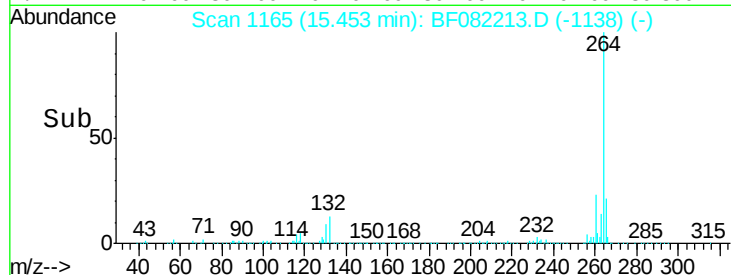
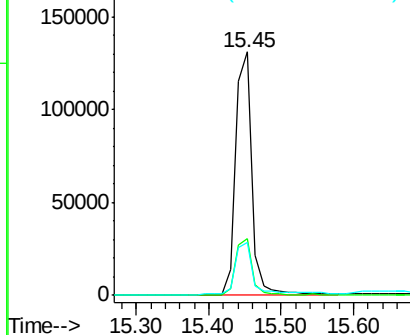
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 264  | Resp: | 207093 |
| Ion Ratio |      | Lower | Upper  |
| 264       | 100  |       |        |
| 260       | 23.5 | 19.0  | 28.6   |
| 265       | 21.8 | 17.3  | 25.9   |

Manual Integrations  
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Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 8.29 ng m

RT: 15.03 min Scan# 1128

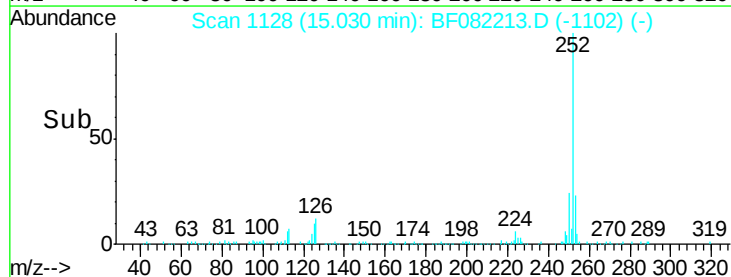
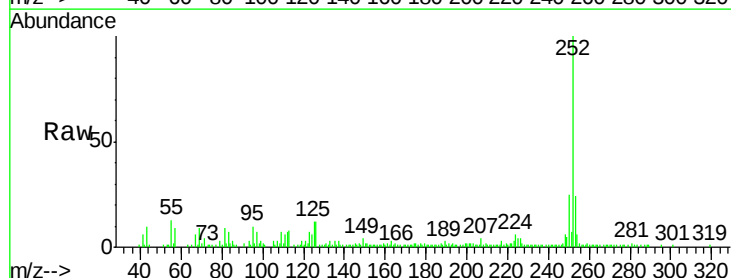
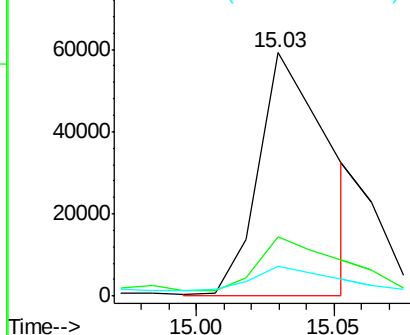
Delta R.T. 0.00 min

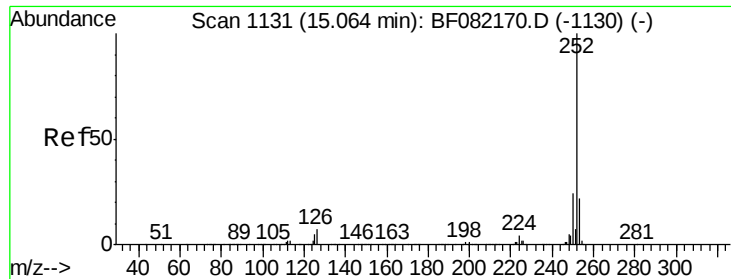
Lab File: BF082213.D

Acq: 11 Oct 2015 9:38

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 104412 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 24.2 | 18.0  | 27.0   |
| 125       | 12.4 | 8.6   | 12.8   |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





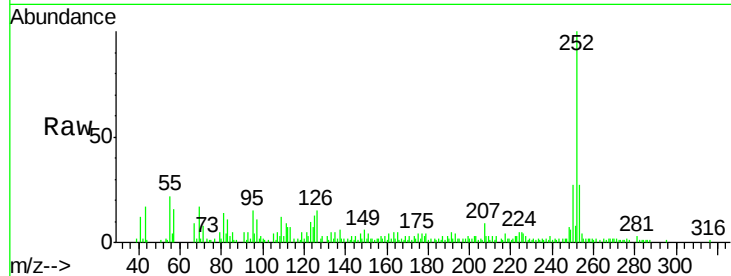
#88  
Benzo(k)fluoranthene  
Concen: 2.22 ng m  
RT: 15.05 min Scan# 1130  
Delta R.T. -0.01 min  
Lab File: BF082213.D  
Acq: 11 Oct 2015 9:38

Instrument :  
BNA\_F  
ClientSampleId :  
RS-COMP(1-8)

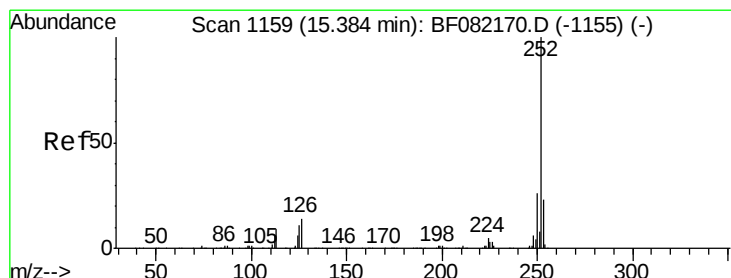
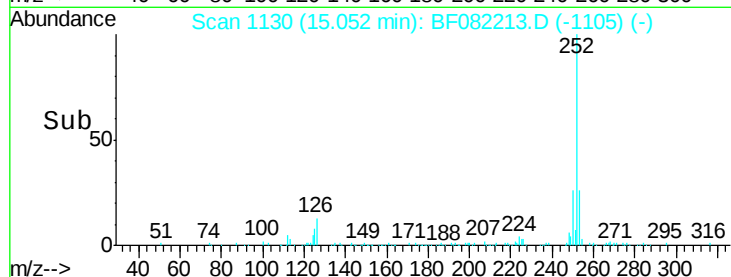
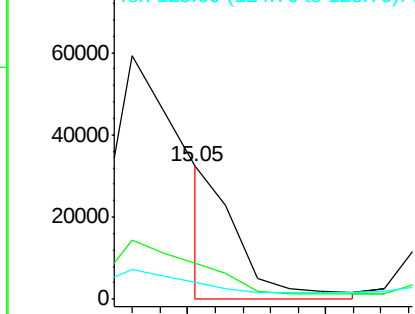
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.2  | 17.8  | 26.6# |
| 125     | 13.0  | 6.7   | 10.1# |

Manual Integrations  
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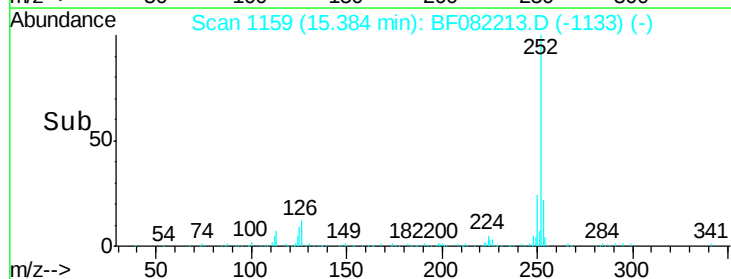
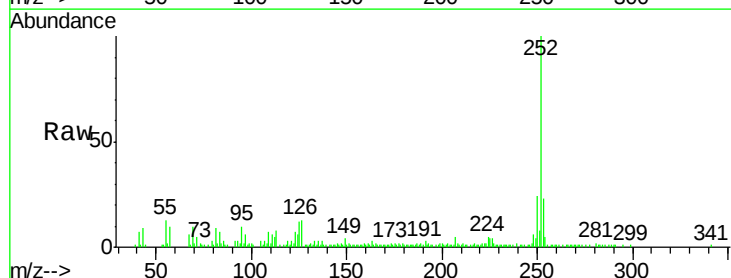
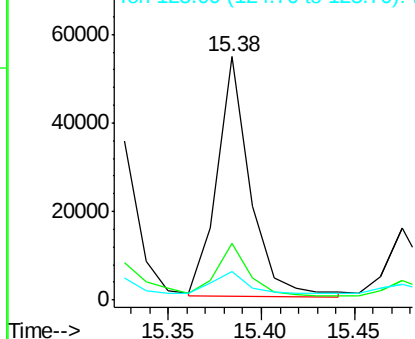
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

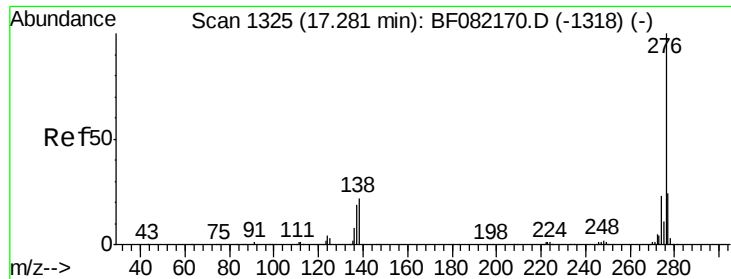


#89  
Benzo(a)pyrene  
Concen: 6.20 ng  
RT: 15.38 min Scan# 1159  
Delta R.T. 0.00 min  
Lab File: BF082213.D  
Acq: 11 Oct 2015 9:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 18.2  | 27.2  |
| 125     | 11.7  | 8.9   | 13.3  |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#91  
 Benzo(g,h,i)perylene  
 Concen: 4.14 ng  
 RT: 17.28 min Scan# 1325  
 Delta R.T. 0.00 min  
 Lab File: BF082213.D  
 Acq: 11 Oct 2015 9:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RS-COMP(1-8)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.5  | 18.8  | 28.2  |
| 138     | 19.3  | 17.4  | 26.2  |

Manual Integrations  
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