

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\  
 Data File : BF083762.D  
 Acq On : 14 Dec 2015 6:57  
 Operator : UM/IZ  
 Sample : G4648-07  
 Misc :  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-05(0-0.16)

Manual Integrations  
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MMdadoda  
 12/14/2015 6:23:49 PM

Quant Time: Dec 14 07:28:49 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 14 01:30:12 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.92  | 152  | 106299   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.20  | 136  | 382108   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.95  | 164  | 155669   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.44 | 188  | 274099   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 14.07 | 240  | 258540   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.51 | 264  | 209888   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.53  | 112  | 816787   | 123.96 | ng    | 0.00     |
| 7) Phenol-d6                | 6.54  | 99   | 908066   | 108.82 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.48  | 82   | 685620   | 100.39 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.74 | 330  | 194801   | 122.81 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.28  | 172  | 854417   | 78.60  | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.01 | 244  | 666586   | 55.46  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.66  | 163  | 184378   | 15.19  | ng    | 99       |
| 70) Phenanthrene            | 11.46 | 178  | 63397    | 4.35   | ng    | 99       |
| 74) Fluoranthene            | 12.64 | 202  | 115323   | 7.66   | ng    | 93       |
| 77) Pyrene                  | 12.86 | 202  | 97634    | 4.78   | ng    | 99       |
| 80) Benzo(a)anthracene      | 14.05 | 228  | 41838m   | 2.85   | ng    |          |
| 82) Chrysene                | 14.09 | 228  | 45753m   | 3.19   | ng    |          |
| 87) Benzo(b)fluoranthene    | 15.08 | 252  | 56853m   | 4.25   | ng    |          |
| 89) Benzo(a)pyrene          | 15.44 | 252  | 31448    | 2.63   | ng    | 94       |

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

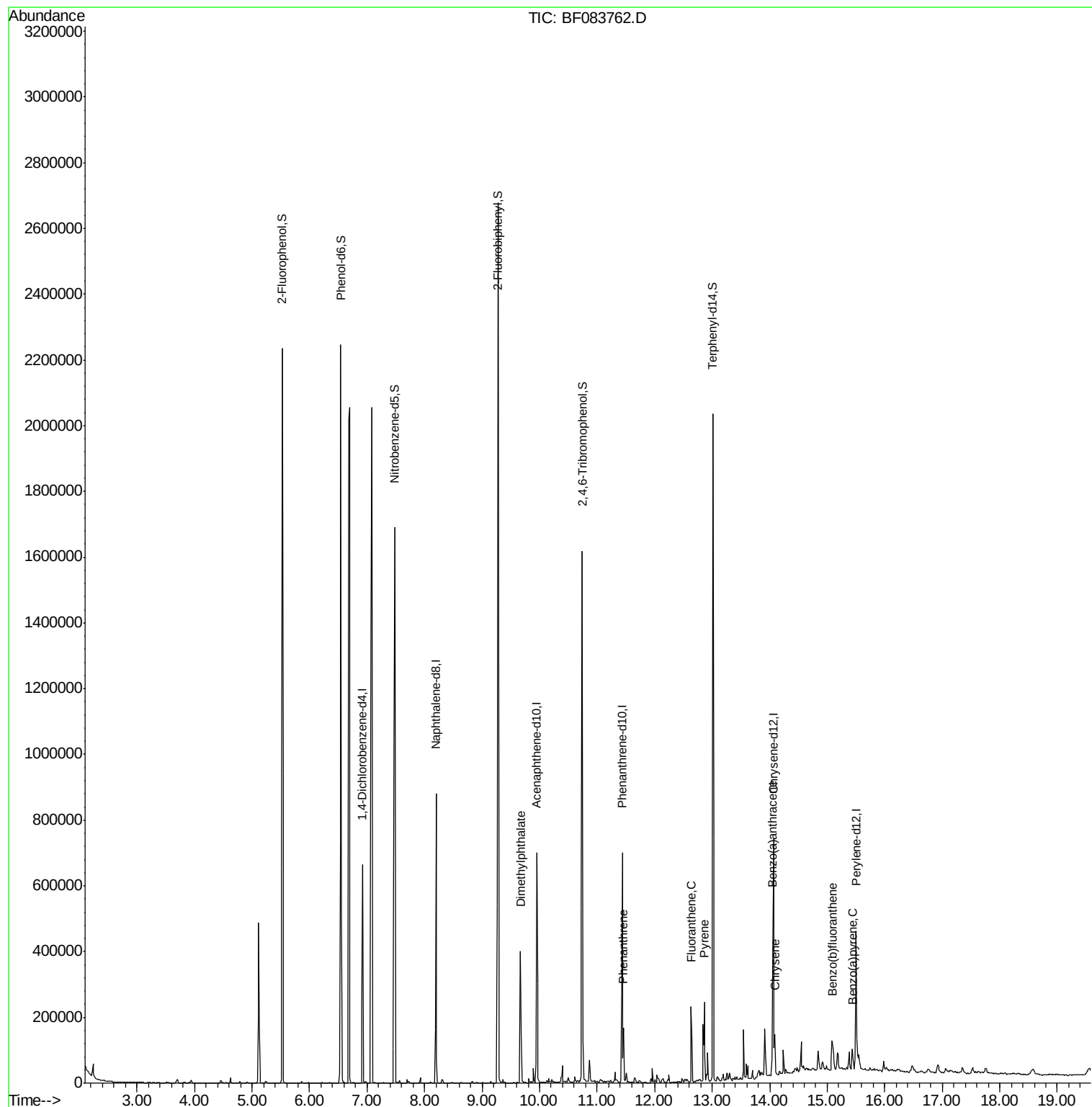
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\  
Data File : BF083762.D  
Acq On : 14 Dec 2015 6:57  
Operator : UM/IZ  
Sample : G4648-07  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

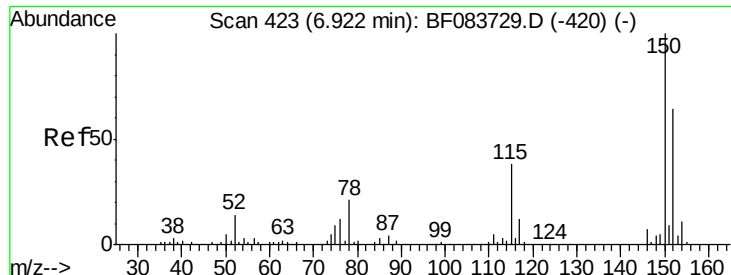
Instrument :  
BNA\_F  
ClientSampleId :  
SB-05(0-0.16)

Manual Integrations  
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12/14/2015 6:23:49 PM

Quant Time: Dec 14 07:28:49 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 14 01:30:12 2015  
Response via : Initial Calibration





#1

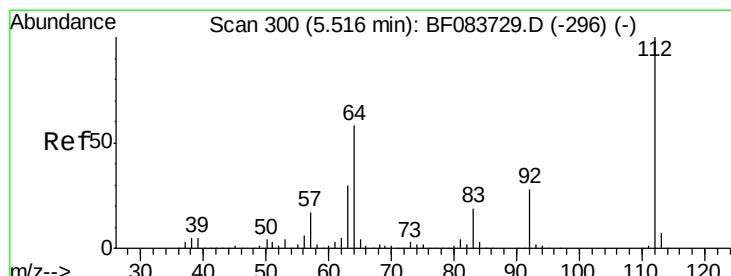
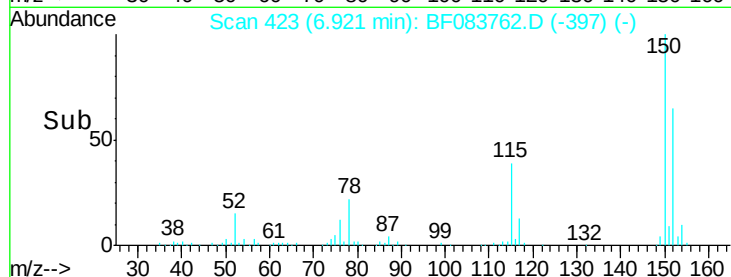
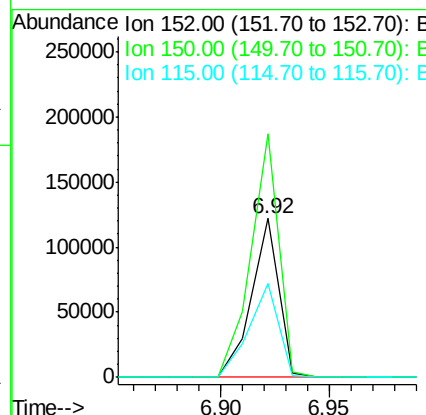
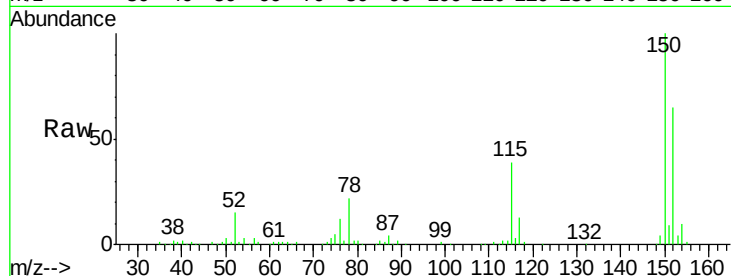
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.92 min Scan# 423  
Delta R.T. 0.00 min  
Lab File: BF083762.D  
Acq: 14 Dec 2015 6:57

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05(0-0.16)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 106299 |       |       |
| 150     | 153.6 | 126.5  | 189.7 |       |
| 115     | 59.2  | 52.3   | 78.5  |       |

Manual Integrations  
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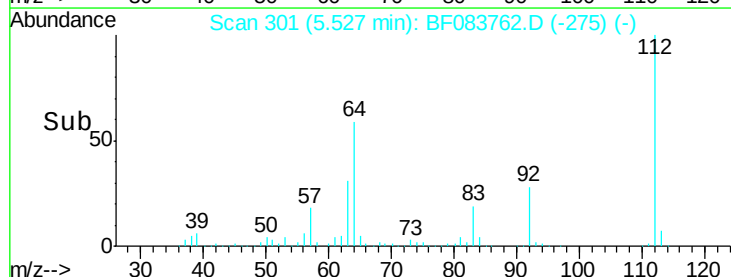
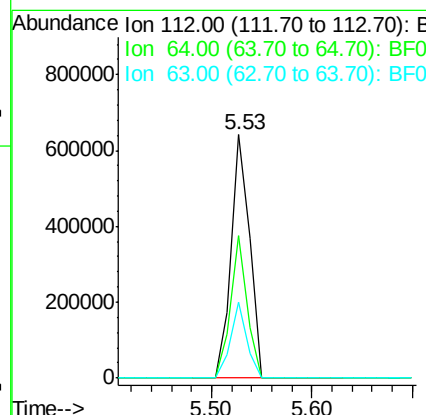
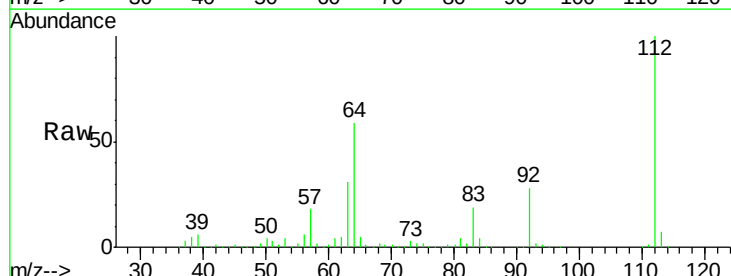
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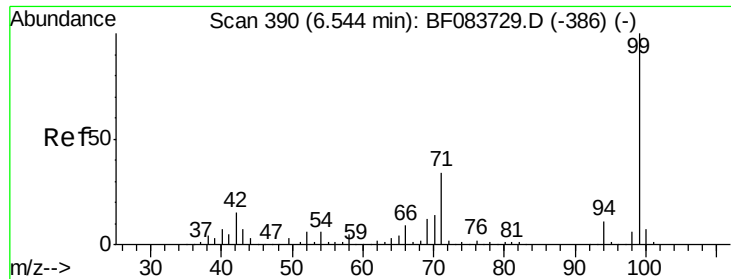


#5

2-Fluorophenol  
Concen: 123.96 ng  
RT: 5.53 min Scan# 301  
Delta R.T. 0.00 min  
Lab File: BF083762.D  
Acq: 14 Dec 2015 6:57

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 112     | 100   | 816787 |       |       |
| 64      | 58.8  | 50.5   | 75.7  |       |
| 63      | 31.1  | 25.8   | 38.6  |       |





#7

Phenol-d6

Concen: 108.82 ng

RT: 6.54 min Scan# 390

Delta R.T. 0.00 min

Lab File: BF083762.D

Acq: 14 Dec 2015 6:57

Instrument :

BNA\_F

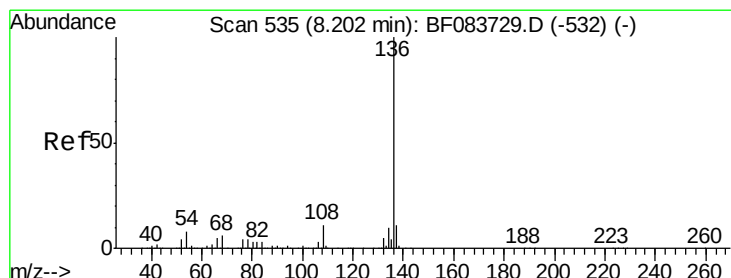
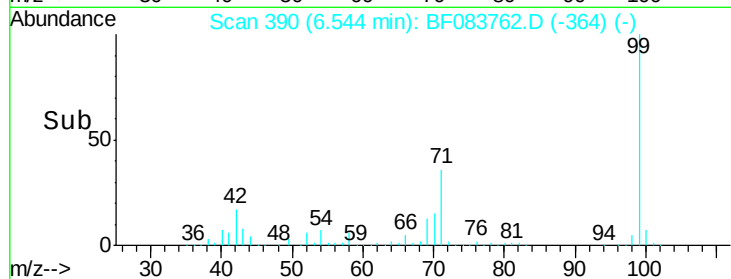
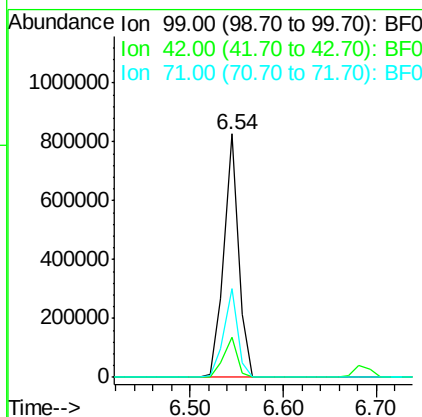
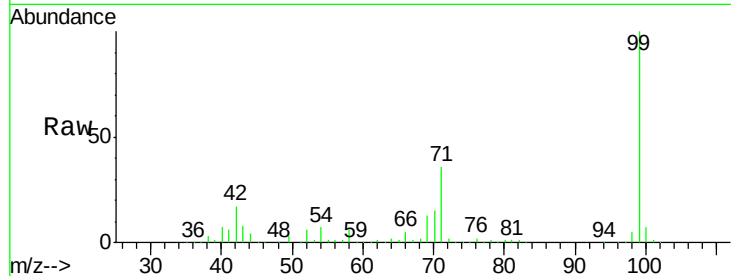
ClientSampleId :

SB-05(0-0.16)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 908066 |       |       |
| 42      | 16.7 | 17.3  | 25.9#  |       |       |
| 71      | 36.3 | 26.6  | 40.0   |       |       |

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#21

Naphthalene-d8

Concen: 20.00 ng

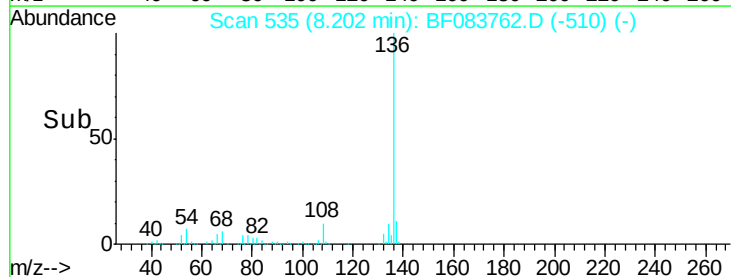
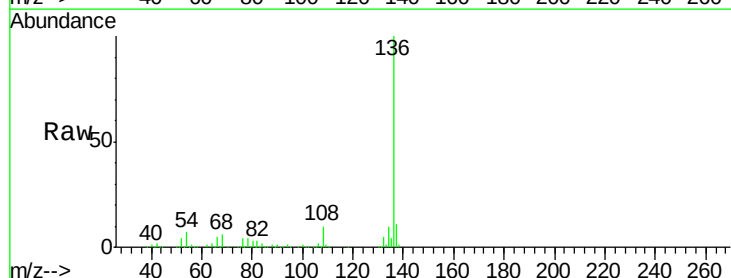
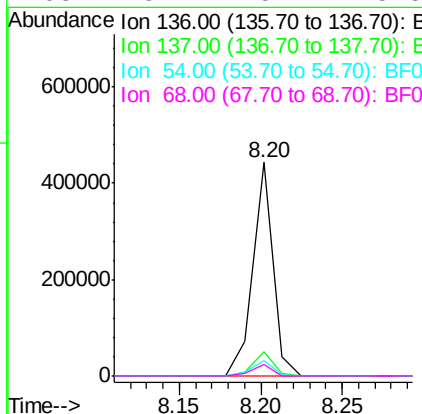
RT: 8.20 min Scan# 535

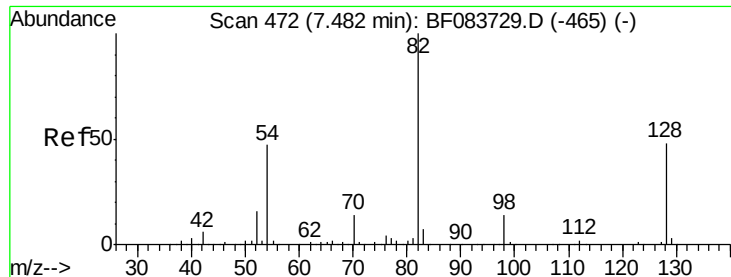
Delta R.T. -0.01 min

Lab File: BF083762.D

Acq: 14 Dec 2015 6:57

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 382108 |       |       |
| 137     | 11.1 | 8.7   | 13.1   |       |       |
| 54      | 7.1  | 7.8   | 11.6#  |       |       |
| 68      | 5.7  | 5.7   | 8.5    |       |       |





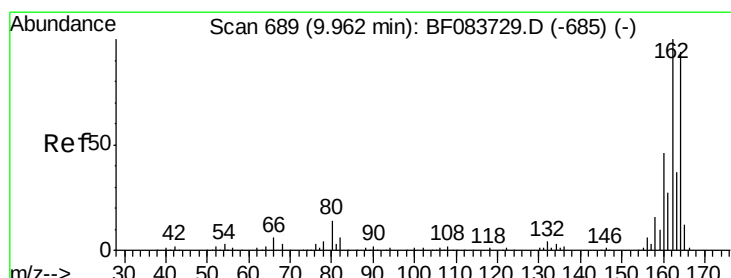
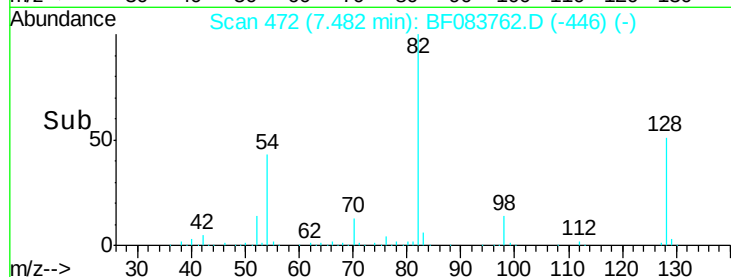
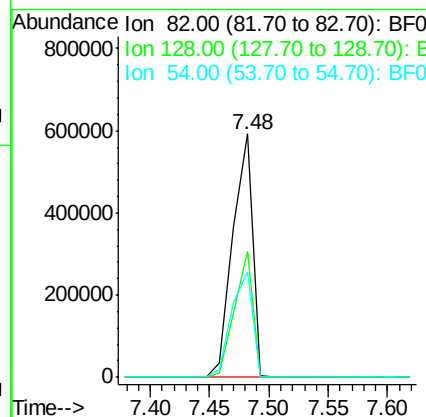
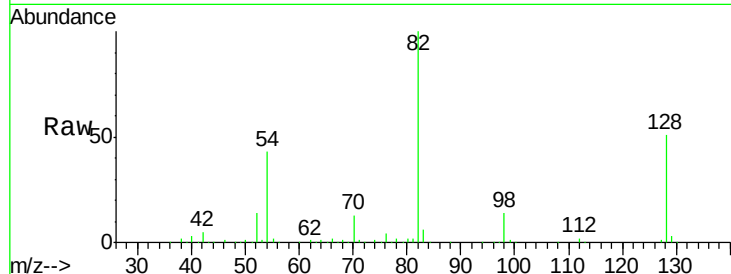
#23  
 Nitrobenzene-d5  
 Concen: 100.39 ng  
 RT: 7.48 min Scan# 472  
 Delta R.T. 0.00 min  
 Lab File: BF083762.D  
 Acq: 14 Dec 2015 6:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-05(0-0.16)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 685620 |       |       |
| 128     | 51.5  | 30.7   | 46.1# |       |
| 54      | 43.3  | 42.5   | 63.7  |       |

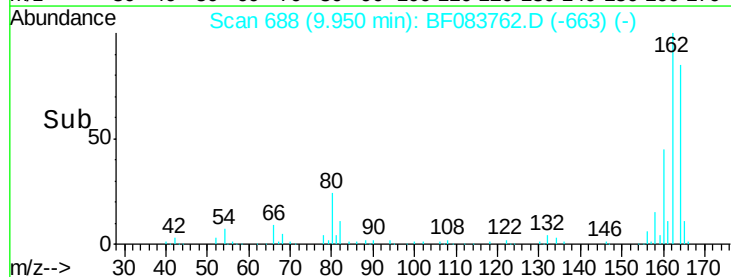
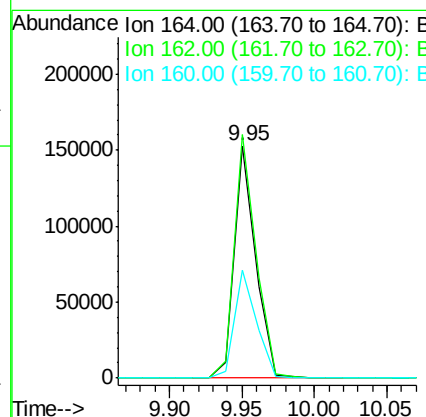
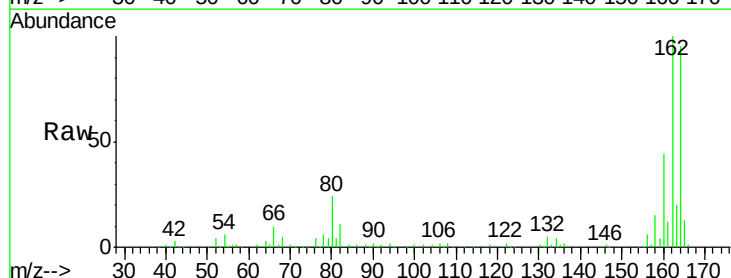
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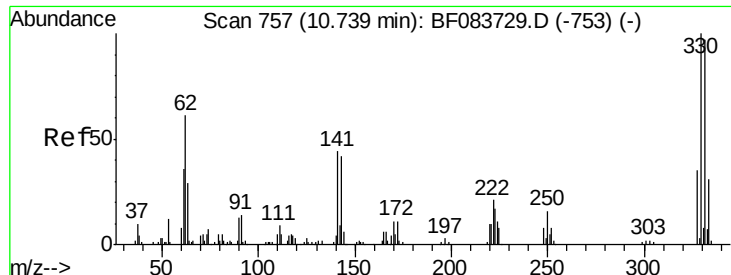
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.95 min Scan# 688  
 Delta R.T. -0.01 min  
 Lab File: BF083762.D  
 Acq: 14 Dec 2015 6:57

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 155669 |       |       |
| 162     | 104.7 | 78.8   | 118.2 |       |
| 160     | 46.4  | 33.4   | 50.2  |       |





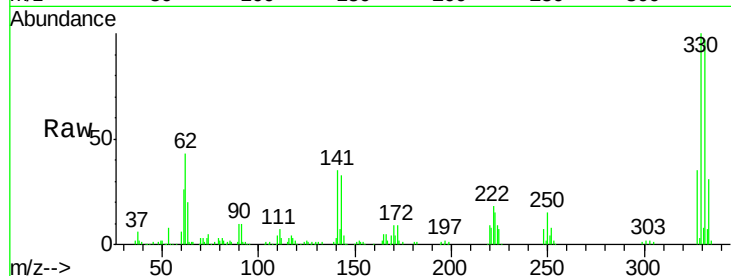
#41  
 2,4,6-Tribromophenol  
 Concen: 122.81 ng  
 RT: 10.74 min Scan# 757  
 Delta R.T. -0.01 min  
 Lab File: BF083762.D  
 Acq: 14 Dec 2015 6:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-05(0-0.16)

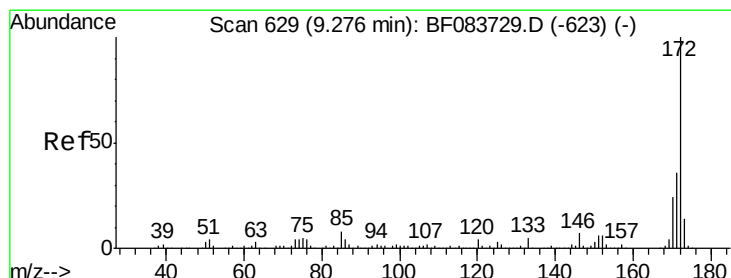
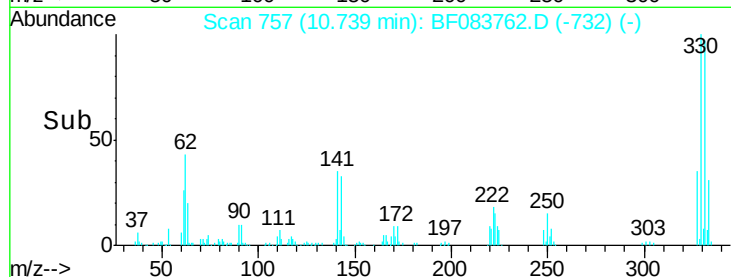
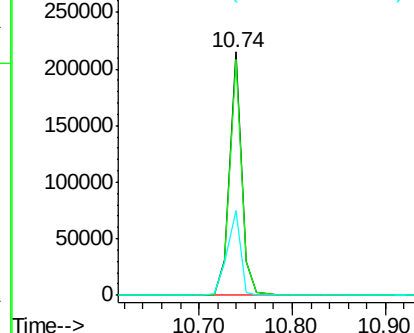
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 330     | 100   |            |       |
| 332     | 96.5  | 0.0        | 0.0#  |
| 141     | 38.8  | 0.0        | 0.0#  |

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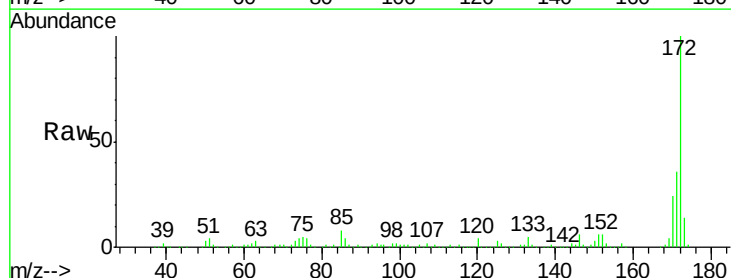


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

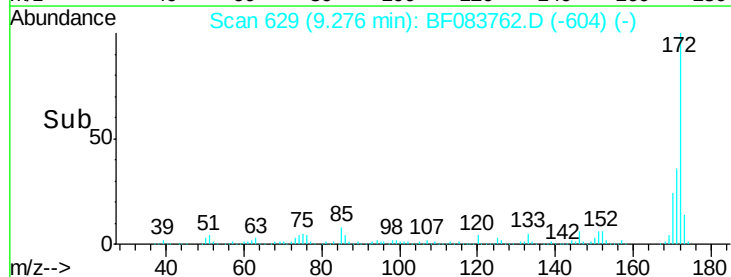
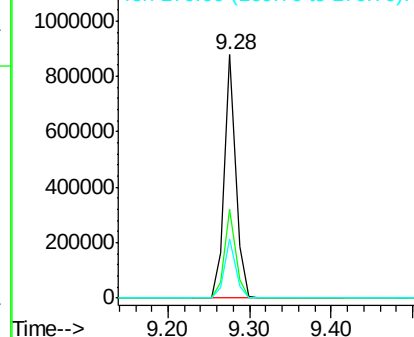


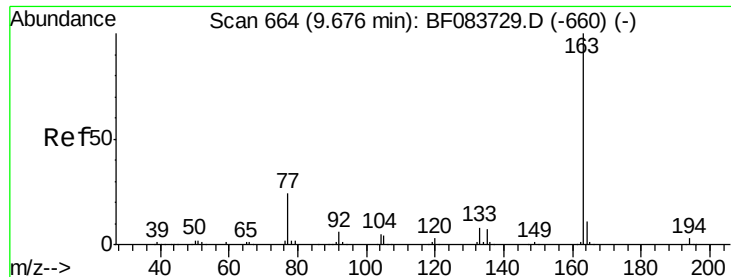
#44  
 2-Fluorobiphenyl  
 Concen: 78.60 ng  
 RT: 9.28 min Scan# 629  
 Delta R.T. -0.01 min  
 Lab File: BF083762.D  
 Acq: 14 Dec 2015 6:57

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 172     | 100   |            |       |
| 171     | 36.3  | 28.6       | 42.8  |
| 170     | 24.3  | 19.4       | 29.0  |



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: 15.19 ng

RT: 9.66 min Scan# 663

Delta R.T. -0.02 min

Lab File: BF083762.D

Acq: 14 Dec 2015 6:57

Instrument :

BNA\_F

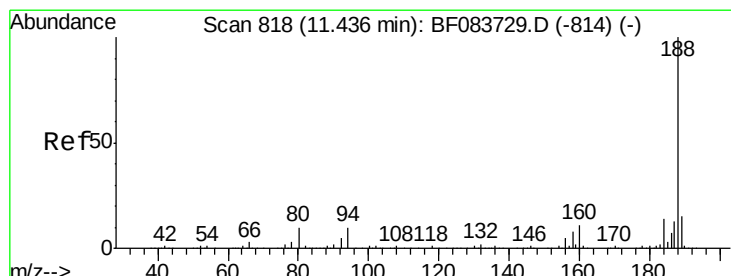
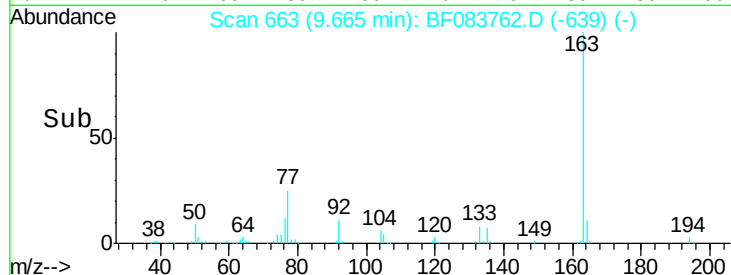
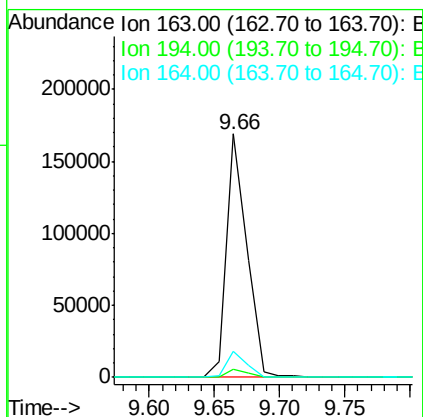
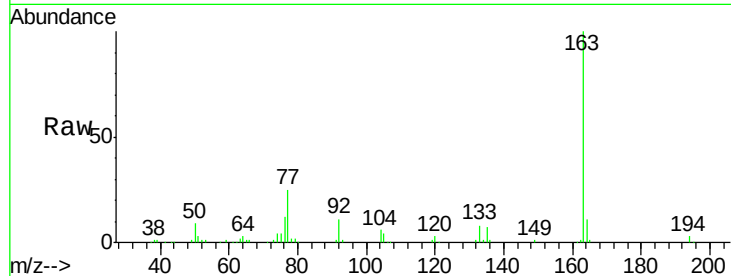
ClientSampleId :

SB-05(0-0.16)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 184378 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.1   | 2.8   | 4.2    |
| 164       | 10.7  | 8.6   | 13.0   |

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#63

Phenanthrene-d10

Concen: 20.00 ng

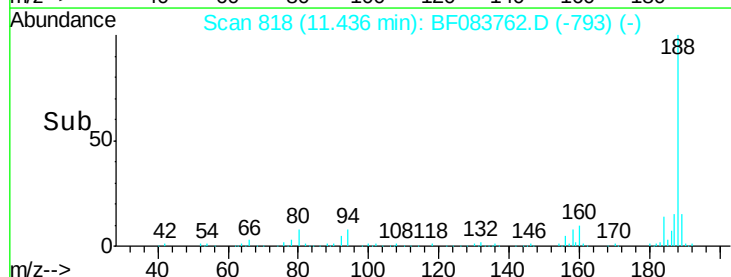
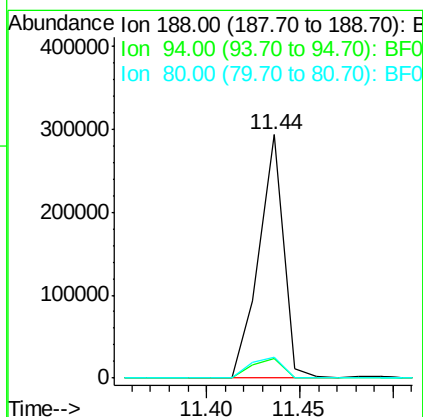
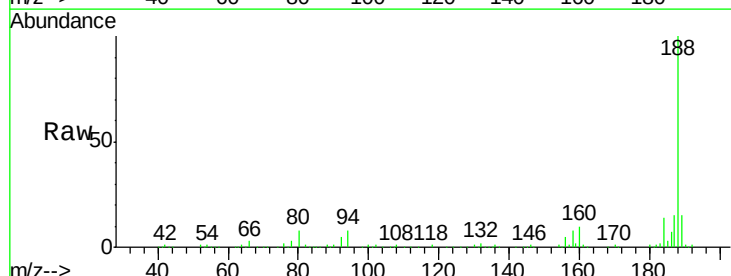
RT: 11.44 min Scan# 818

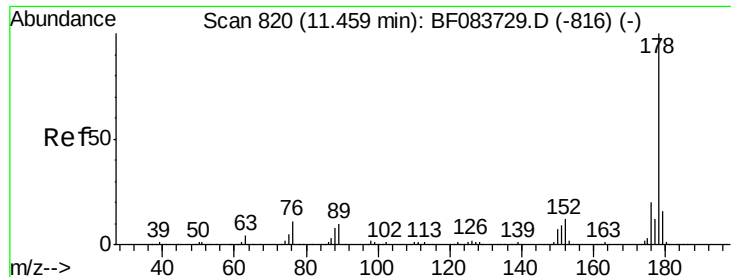
Delta R.T. -0.01 min

Lab File: BF083762.D

Acq: 14 Dec 2015 6:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 274099 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.3   | 9.4   | 14.2#  |
| 80        | 8.5   | 10.6  | 16.0#  |





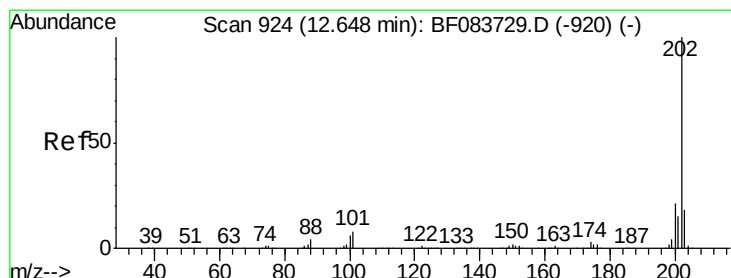
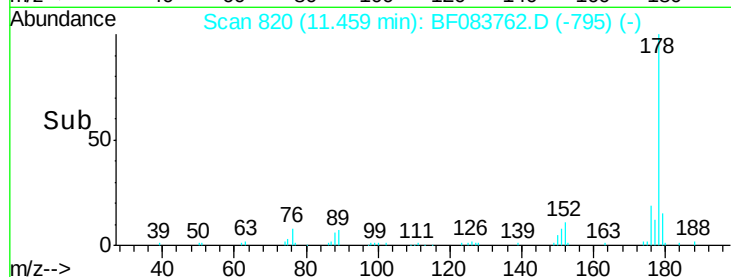
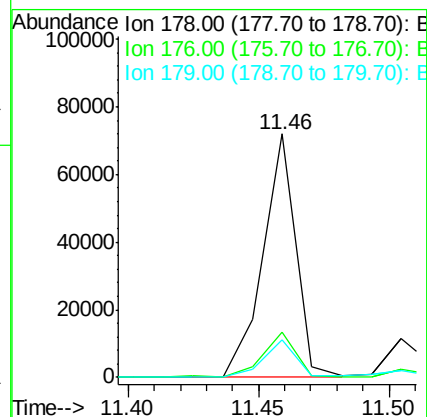
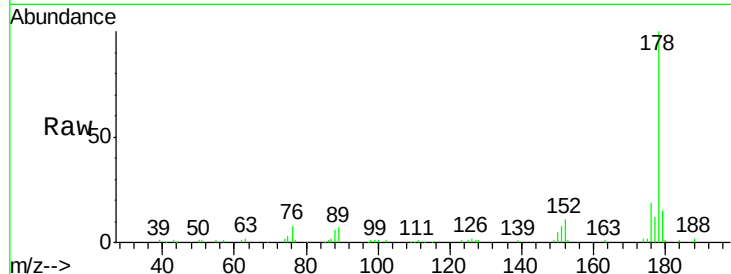
#70  
Phenanthrene  
Concen: 4.35 ng  
RT: 11.46 min Scan# 820  
Delta R.T. -0.01 min  
Lab File: BF083762.D  
Acq: 14 Dec 2015 6:57

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05(0-0.16)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 15.7  | 23.5  |
| 179     | 15.3  | 12.2  | 18.4  |

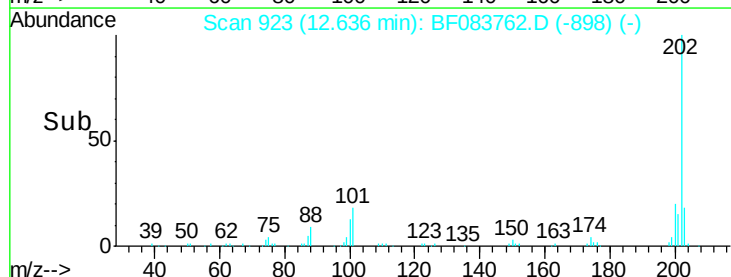
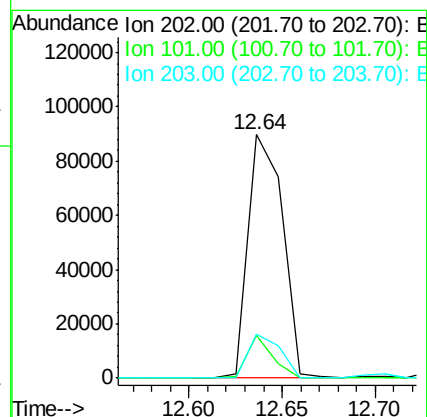
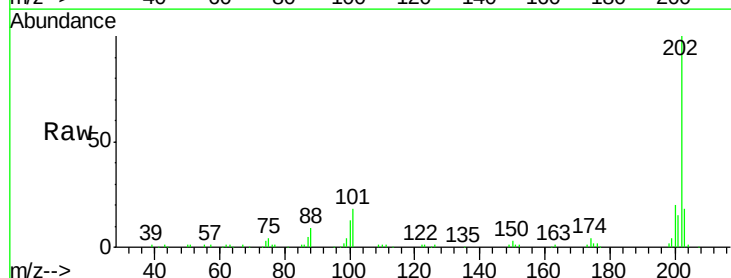
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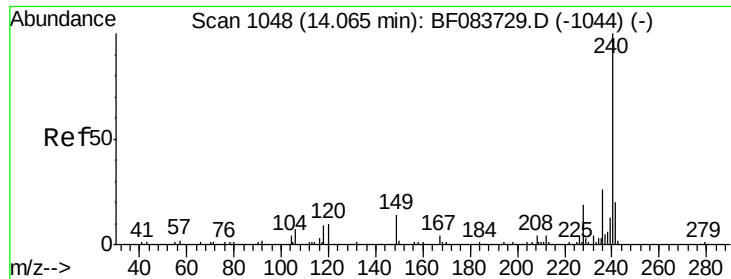


#74  
Fluoranthene  
Concen: 7.66 ng  
RT: 12.64 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: BF083762.D  
Acq: 14 Dec 2015 6:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 17.7  | 0.0   | 31.5  |
| 203     | 18.0  | 0.0   | 37.6  |







#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.07 min Scan# 1048

Delta R.T. -0.01 min

Lab File: BF083762.D

Acq: 14 Dec 2015 6:57

Instrument :

BNA\_F

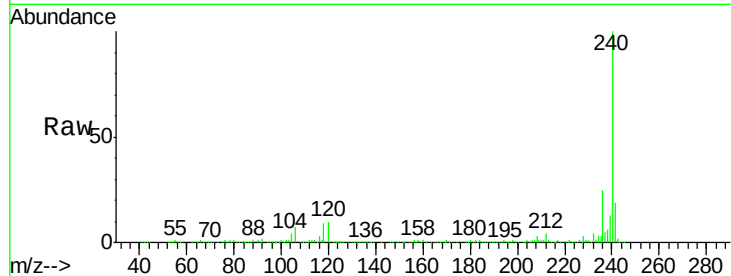
ClientSampleId :

SB-05(0-0.16)

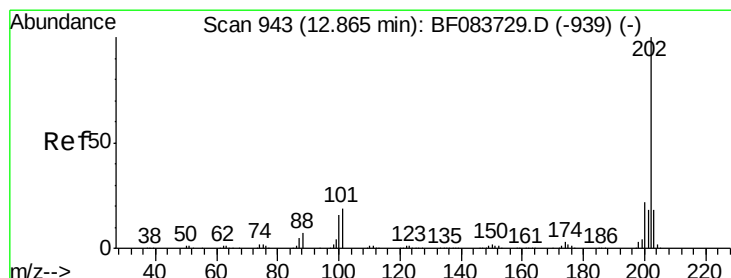
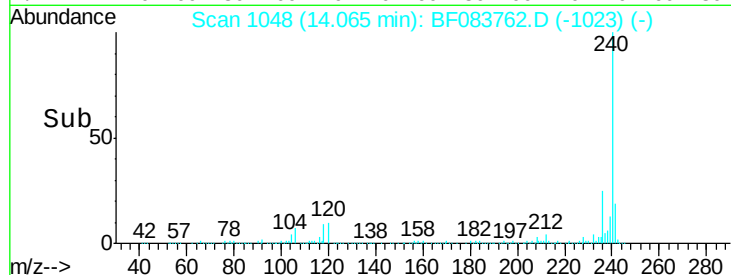
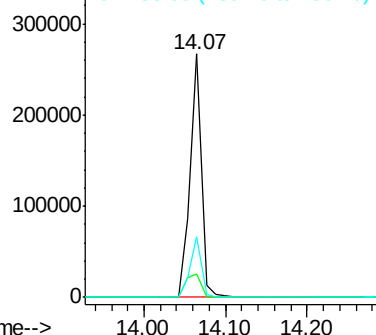
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 258540 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 9.9   | 8.1   | 12.1   |
| 236       | 25.1  | 20.8  | 31.2   |

Manual Integrations  
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12/14/2015 6:23:49 PM



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: 4.78 ng

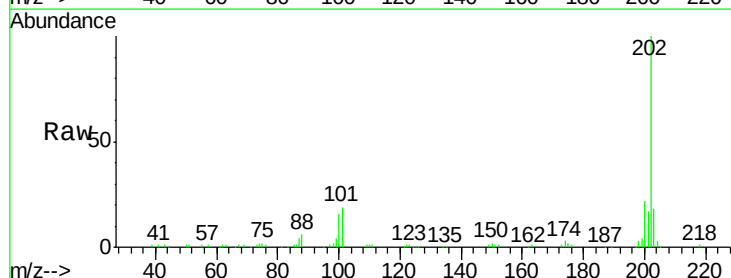
RT: 12.86 min Scan# 943

Delta R.T. -0.01 min

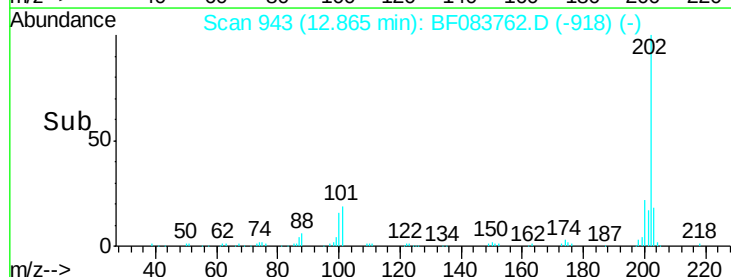
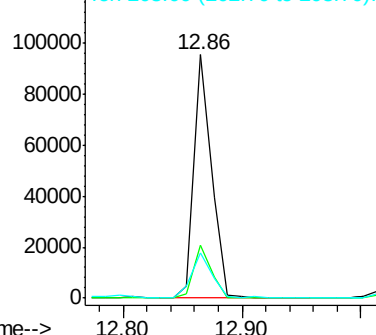
Lab File: BF083762.D

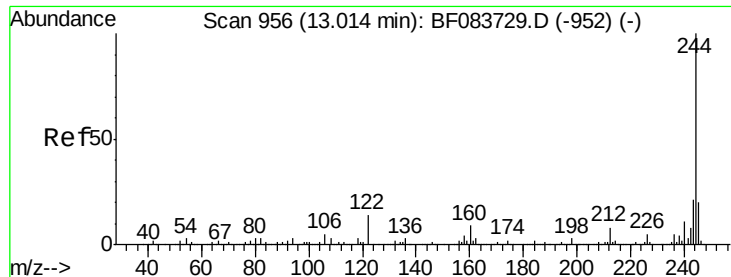
Acq: 14 Dec 2015 6:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 97634 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.5  | 16.7  | 25.1  |
| 203       | 18.4  | 14.3  | 21.5  |



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





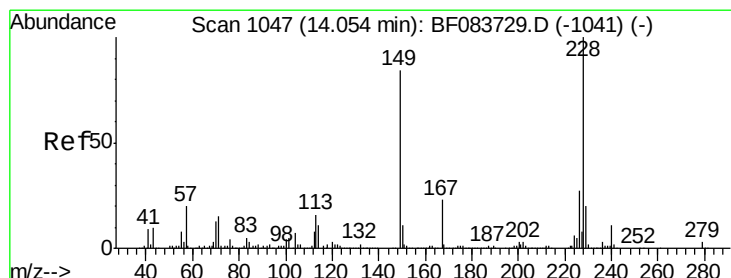
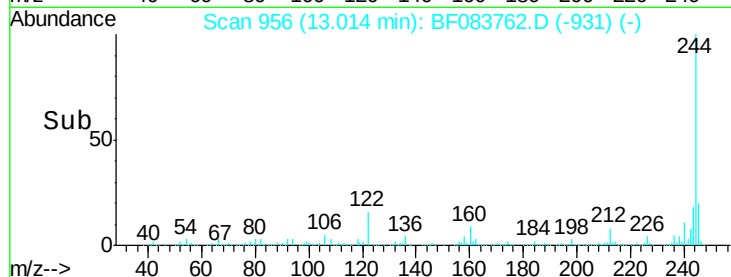
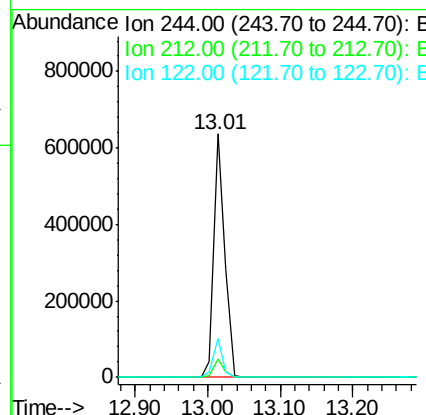
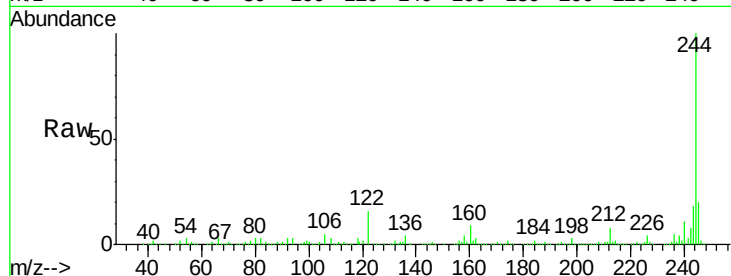
#78  
 Terphenyl-d14  
 Concen: 55.46 ng  
 RT: 13.01 min Scan# 956  
 Delta R.T. -0.01 min  
 Lab File: BF083762.D  
 Acq: 14 Dec 2015 6:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-05(0-0.16)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.7   | 6.1   | 9.1   |
| 122     | 15.7  | 11.0  | 16.6  |

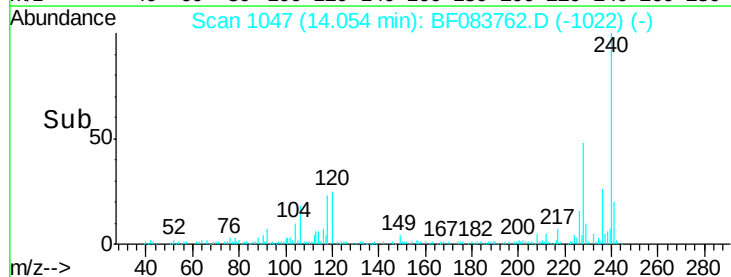
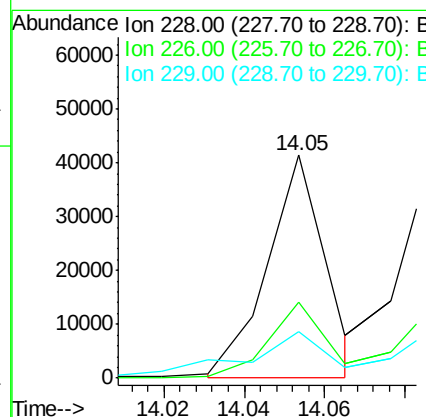
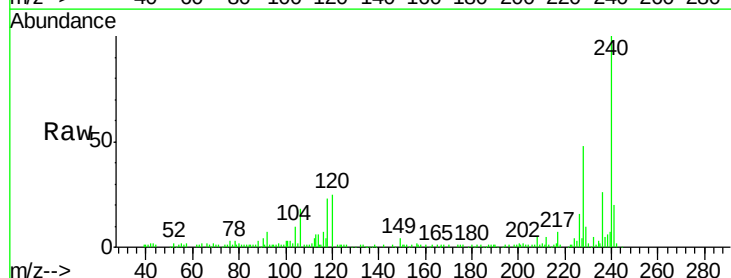
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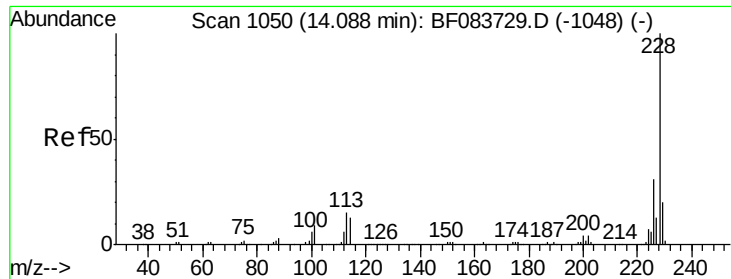
MMdadoda  
 12/14/2015 6:23:49 PM



#80  
 Benzo(a)anthracene  
 Concen: 2.85 ng m  
 RT: 14.05 min Scan# 1047  
 Delta R.T. -0.01 min  
 Lab File: BF083762.D  
 Acq: 14 Dec 2015 6:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 34.1  | 22.3  | 33.5# |
| 229     | 21.1  | 15.7  | 23.5  |





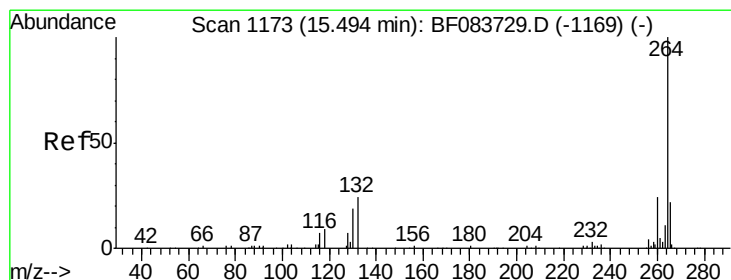
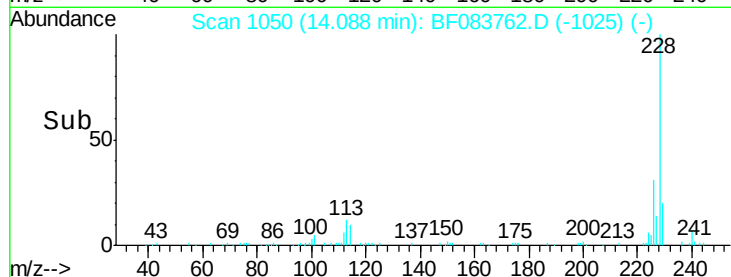
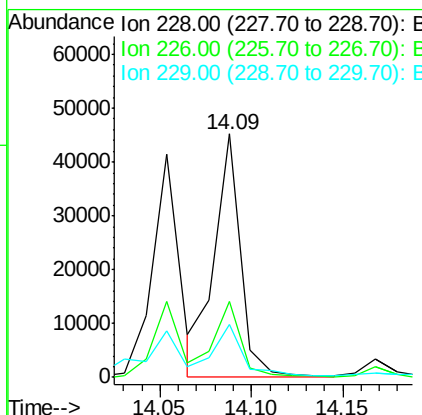
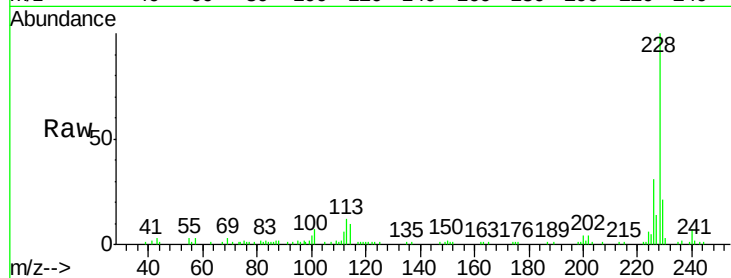
#82  
Chrysene  
Concen: 3.19 ng/ml  
RT: 14.09 min Scan# 1050  
Delta R.T. -0.01 min  
Lab File: BF083762.D  
Acq: 14 Dec 2015 6:57

Instrument :  
BNA\_F  
ClientSampleId :  
SB-05(0-0.16)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 45753 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.0  | 24.7  | 37.1  |
| 229       | 21.5  | 16.3  | 24.5  |

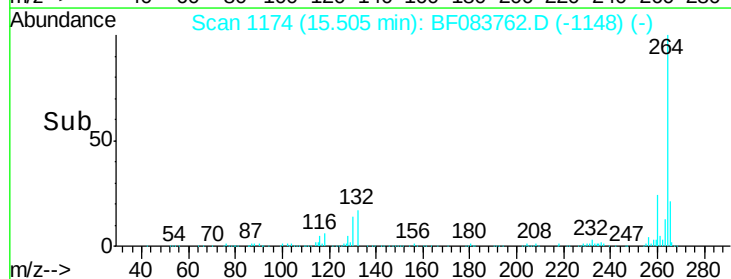
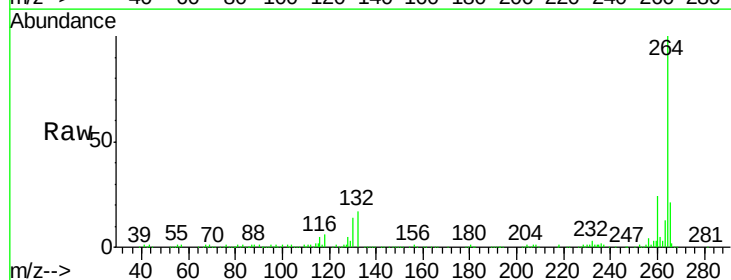
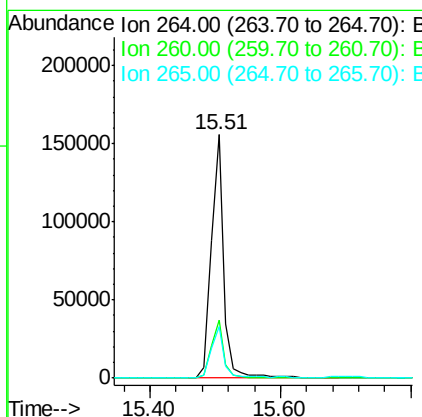
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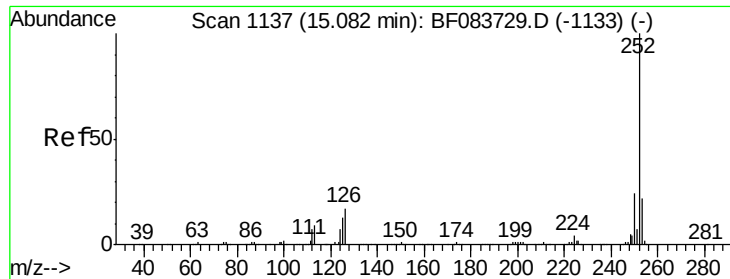
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.51 min Scan# 1174  
Delta R.T. 0.00 min  
Lab File: BF083762.D  
Acq: 14 Dec 2015 6:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 209888 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.8  | 19.4  | 29.0   |
| 265       | 21.1  | 17.8  | 26.6   |





#87

Benzo(b)fluoranthene

Concen: 4.25 ng

RT: 15.08 min Scan# 1137

Delta R.T. -0.01 min

Lab File: BF083762.D

Acq: 14 Dec 2015 6:57

Instrument :

BNA\_F

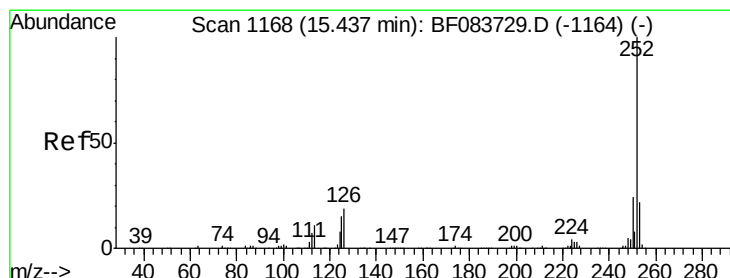
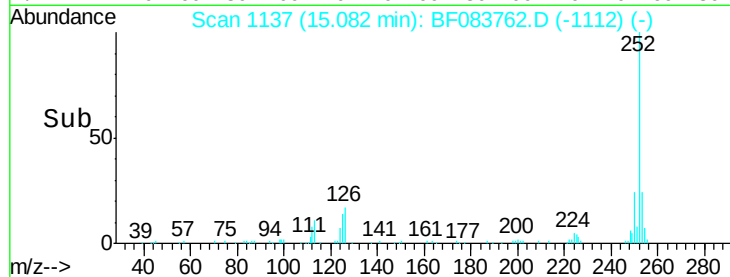
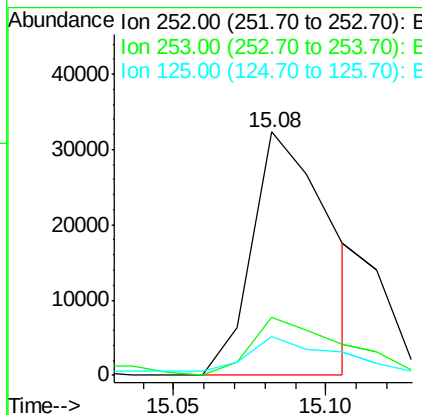
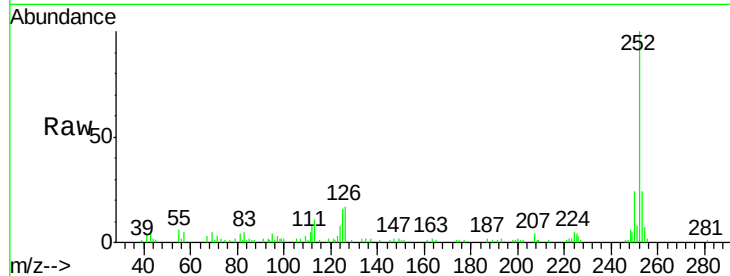
ClientSampleId :

SB-05(0-0.16)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 56853 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.9  | 18.2  | 27.4  |
| 125       | 15.8  | 8.2   | 12.4# |

Manual Integrations  
APPROVED

MMdadoda  
12/14/2015 6:23:49 PM



#89

Benzo(a)pyrene

Concen: 2.63 ng

RT: 15.44 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BF083762.D

Acq: 14 Dec 2015 6:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 31448 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.1  | 17.5  | 26.3  |
| 125       | 15.6  | 11.0  | 16.6  |

