

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100915\  
 Data File : BF082150.D  
 Acq On : 9 Oct 2015 17:39  
 Operator : UM/IZ  
 Sample : G3906-08  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 IM-MLA-(1.5-02)-R

Manual Integrations  
 APPROVED

MMDadoda  
 10/12/2015 2:43:47 PM

Quant Time: Oct 10 02:28:33 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 09 22:47:26 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.85  | 152  | 112531   | 20.00  | ng    | -0.01       |
| 21) Naphthalene-d8          | 8.14  | 136  | 449195   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10        | 9.90  | 164  | 199165   | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10        | 11.38 | 188  | 342258   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12            | 14.02 | 240  | 259391   | 20.00  | ng    | -0.01       |
| 86) Perylene-d12            | 15.46 | 264  | 217645   | 20.00  | ng    | -0.01       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.45  | 112  | 642044   | 103.57 | ng    | 0.01        |
| 7) Phenol-d6                | 6.49  | 99   | 886442   | 113.64 | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 512941   | 76.12  | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol    | 10.69 | 330  | 199901   | 99.10  | ng    | -0.01       |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 970459   | 80.74  | ng    | 0.00        |
| 78) Terphenyl-d14           | 12.97 | 244  | 746166   | 96.47  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 49) Dimethylphthalate       | 9.61  | 163  | 239164   | 17.40  | ng    | Qvalue # 97 |
| 70) Phenanthrene            | 11.41 | 178  | 67514    | 2.53   | ng    | 99          |
| 74) Fluoranthene            | 12.59 | 202  | 86028    | 4.69   | ng    | 88          |
| 77) Pyrene                  | 12.82 | 202  | 77607    | 5.01   | ng    | 98          |
| 80) Benzo(a)anthracene      | 14.01 | 228  | 32901m   | 2.36   | ng    |             |
| 82) Chrysene                | 14.05 | 228  | 31465m   | 2.59   | ng    |             |
| 87) Benzo(b)fluoranthene    | 15.04 | 252  | 32500m   | 2.62   | ng    |             |
| 89) Benzo(a)pyrene          | 15.40 | 252  | 24735    | 2.29   | ng    | # 91        |

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

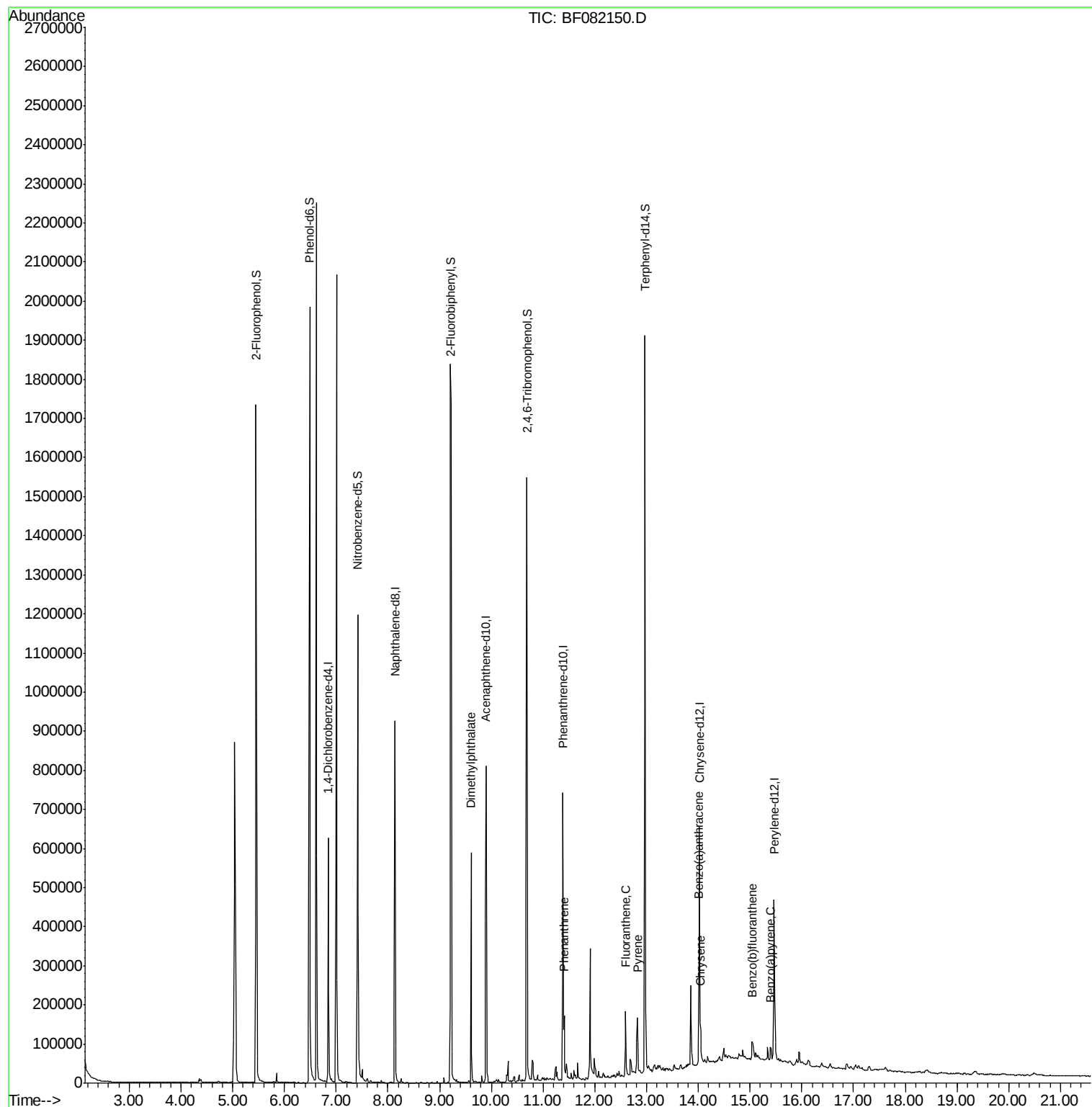
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100915\  
Data File : BF082150.D  
Acq On : 9 Oct 2015 17:39  
Operator : UM/IZ  
Sample : G3906-08  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
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Quant Time: Oct 10 02:28:33 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 09 22:47:26 2015  
Response via : Initial Calibration





#1

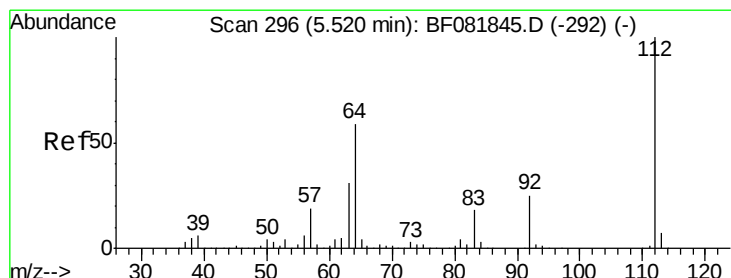
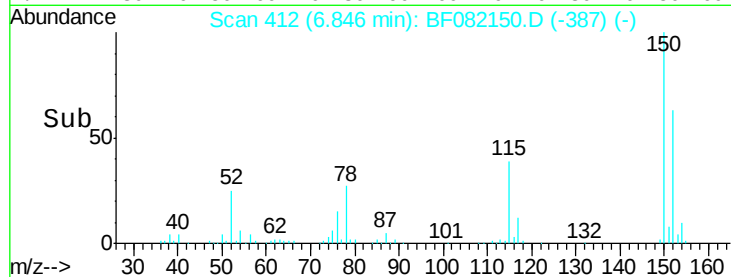
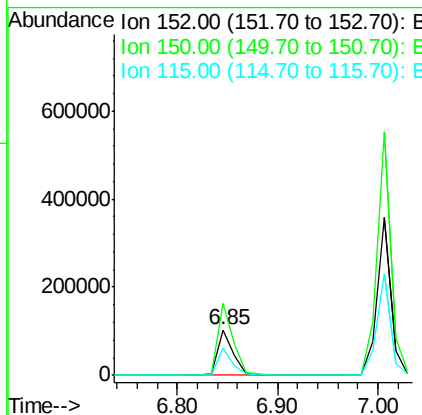
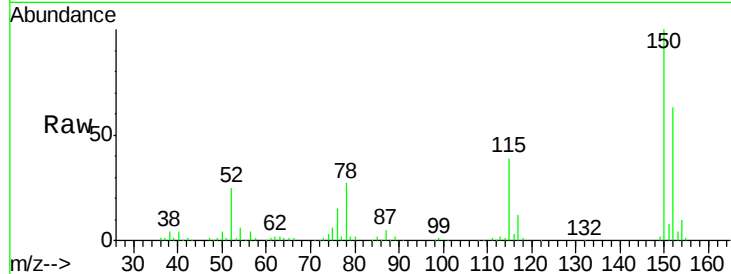
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.85 min Scan# 412  
Delta R.T. -0.01 min  
Lab File: BF082150.D  
Acq: 9 Oct 2015 17:39

Instrument :  
BNA\_F  
ClientSampleId :  
IM-MLA-(1.5-02)-R

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.5 | 124.7 | 187.1 |
| 115     | 61.3  | 39.0  | 58.4# |

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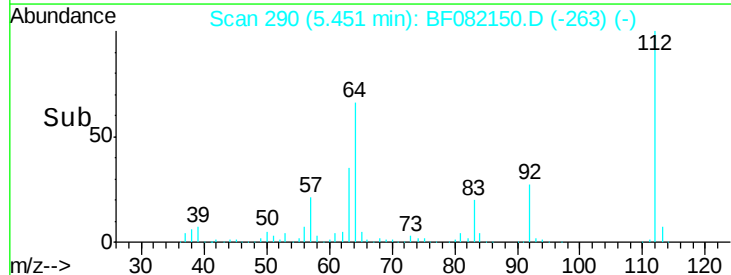
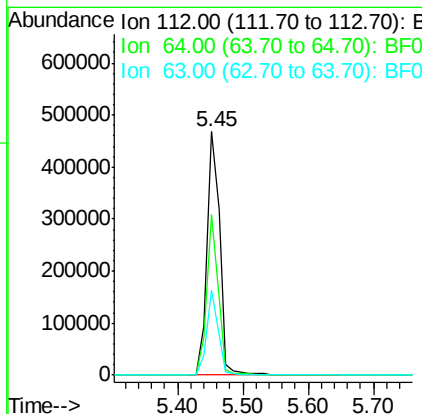
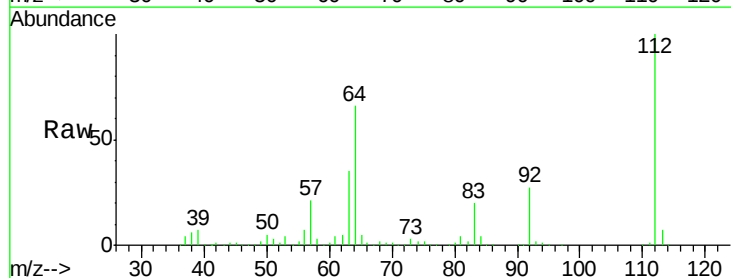
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10/12/2015 2:43:47 PM

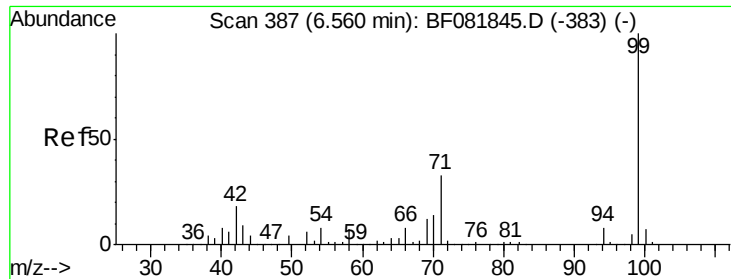


#5

2-Fluorophenol  
Concen: 103.57 ng  
RT: 5.45 min Scan# 290  
Delta R.T. 0.01 min  
Lab File: BF082150.D  
Acq: 9 Oct 2015 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.1  | 39.7  | 59.5# |
| 63      | 34.8  | 17.4  | 26.0# |





#7

Phenol-d6

Concen: 113.64 ng

RT: 6.49 min Scan# 381

Delta R.T. -0.00 min

Lab File: BF082150.D

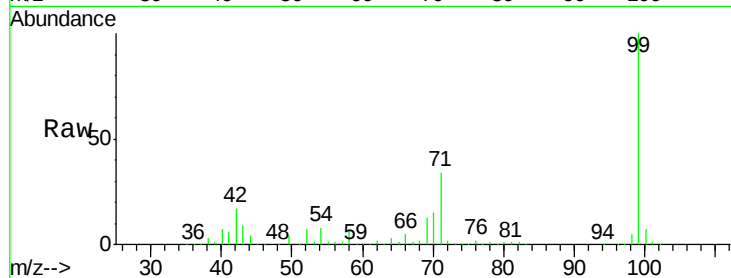
Acq: 9 Oct 2015 17:39

Instrument :

BNA\_F

ClientSampleId :

IM-MLA-(1.5-02)-R



Tgt Ion: 99 Resp: 886442

Ion Ratio Lower Upper

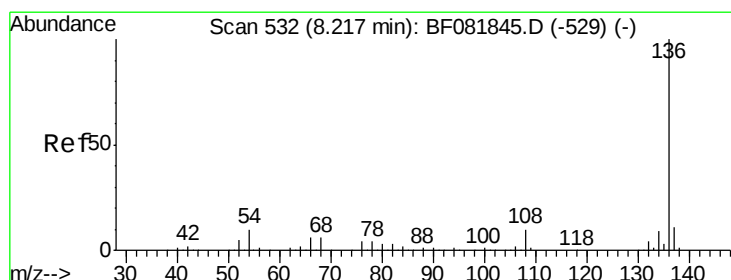
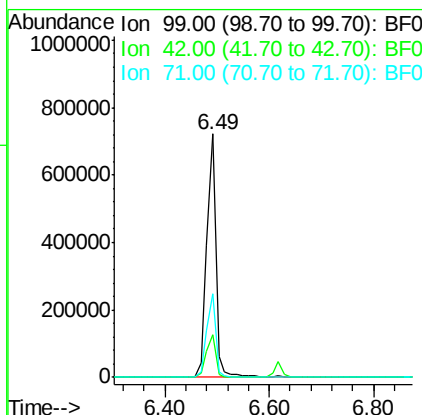
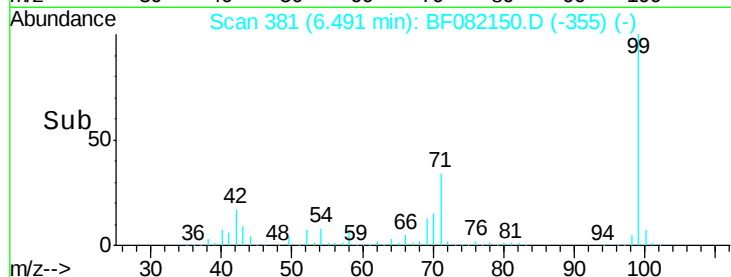
99 100

42 17.5 13.7 20.5

71 34.2 14.2 21.2#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.14 min Scan# 525

Delta R.T. -0.00 min

Lab File: BF082150.D

Acq: 9 Oct 2015 17:39

Tgt Ion: 136 Resp: 449195

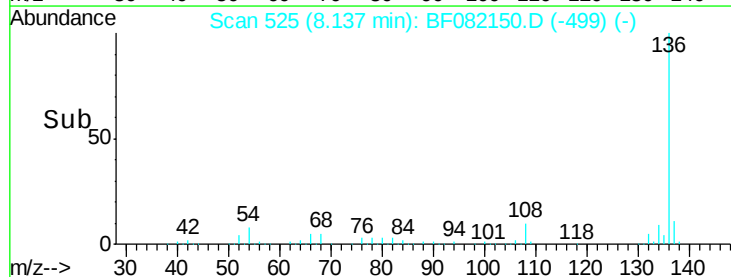
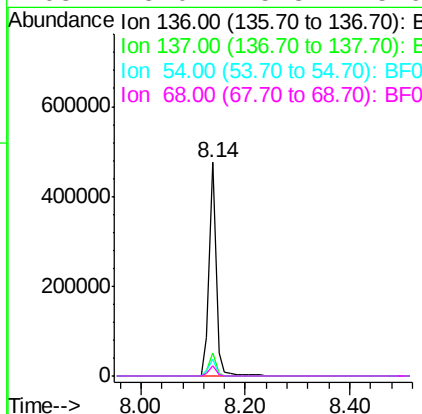
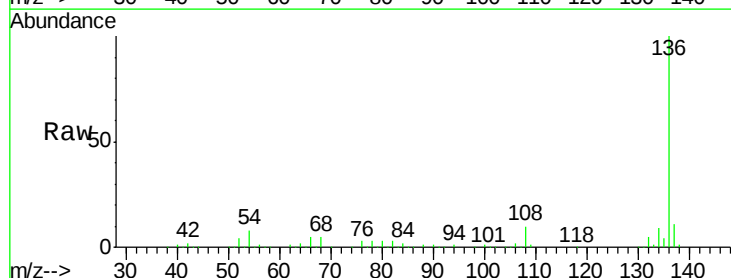
Ion Ratio Lower Upper

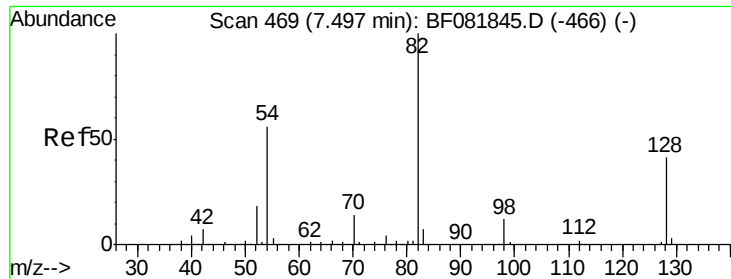
136 100

137 10.9 9.0 13.6

54 7.7 8.2 12.2#

68 5.0 5.8 8.6#





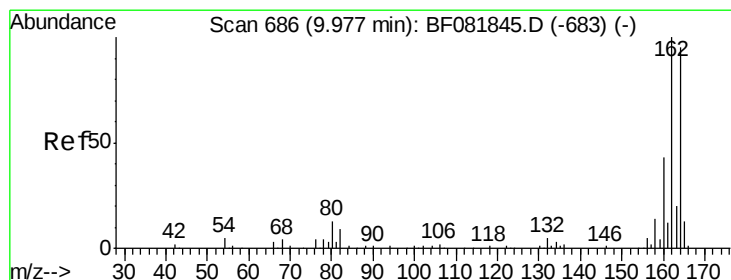
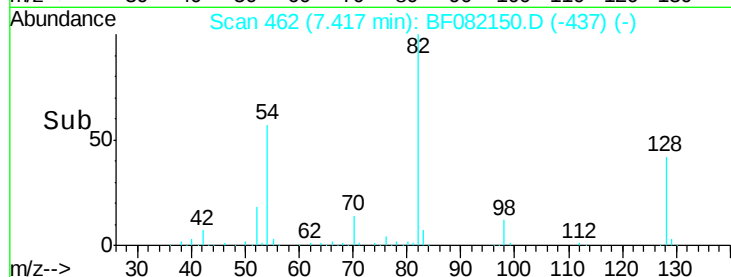
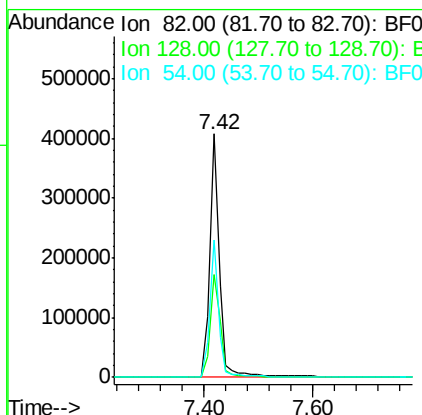
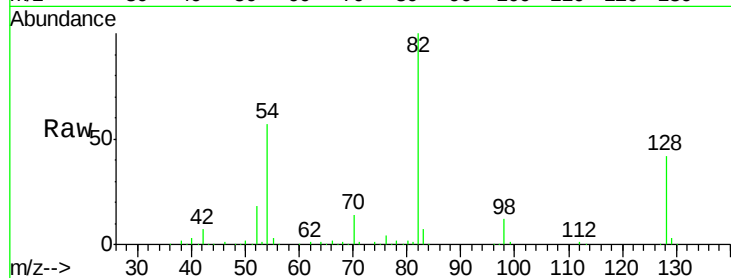
#23  
 Nitrobenzene-d5  
 Concen: 76.12 ng  
 RT: 7.42 min Scan# 462  
 Delta R.T. -0.01 min  
 Lab File: BF082150.D  
 Acq: 9 Oct 2015 17:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 IM-MLA-(1.5-02)-R

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.1  | 51.0  | 76.6# |
| 54      | 56.6  | 47.5  | 71.3  |

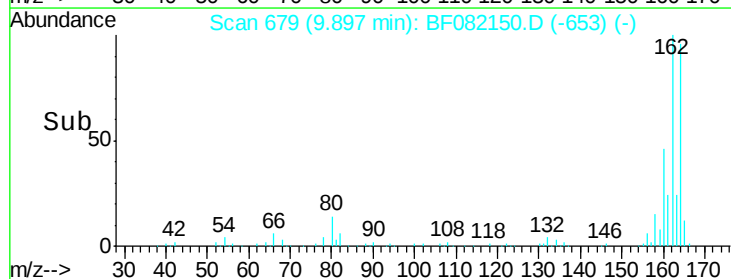
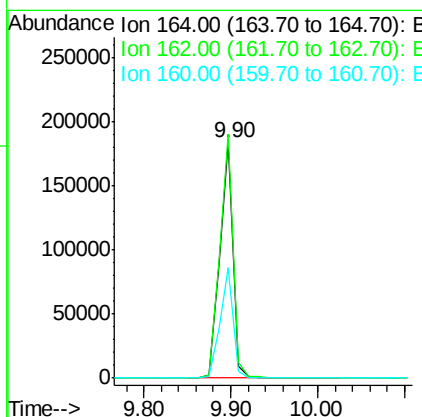
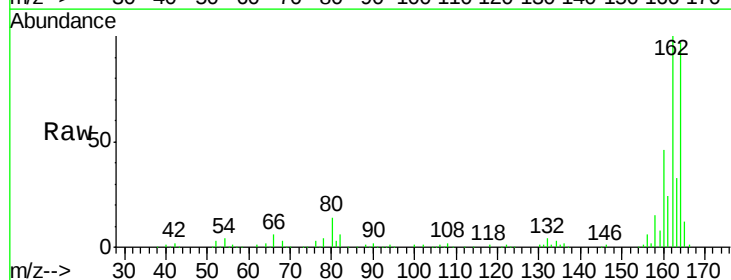
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.90 min Scan# 679  
 Delta R.T. -0.00 min  
 Lab File: BF082150.D  
 Acq: 9 Oct 2015 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.3 | 75.2  | 112.8 |
| 160     | 47.0  | 31.5  | 47.3  |





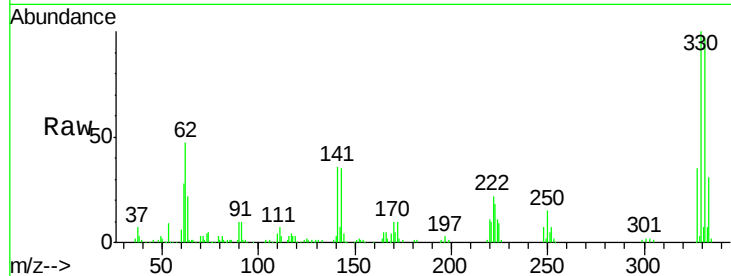
#41  
 2,4,6-Tribromophenol  
 Concen: 99.10 ng  
 RT: 10.69 min Scan# 748  
 Delta R.T. -0.01 min  
 Lab File: BF082150.D  
 Acq: 9 Oct 2015 17:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 IM-MLA-(1.5-02)-R

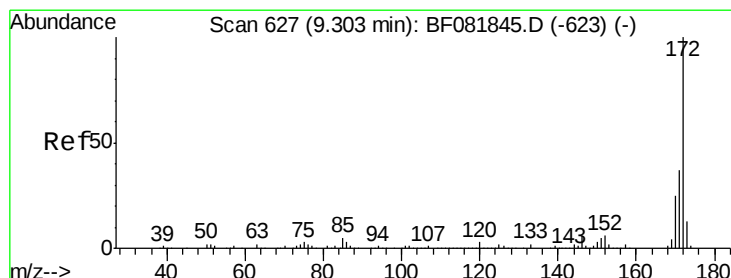
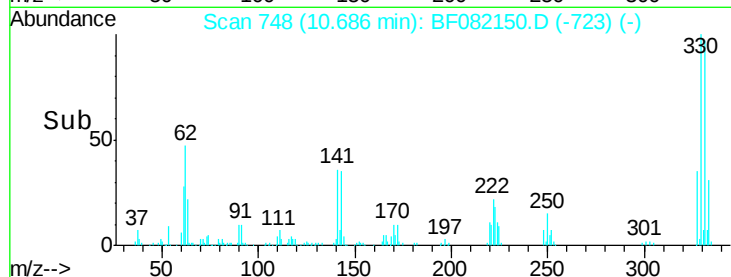
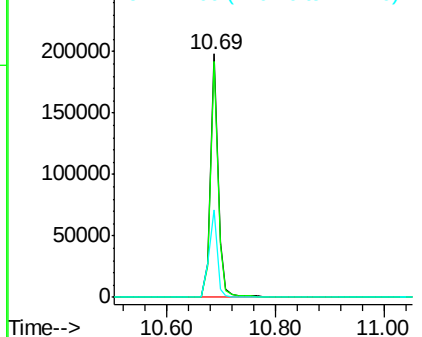
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 199901 |       |       |
| 332     | 95.6  | 76.6   | 114.8 |       |
| 141     | 37.6  | 29.7   | 44.5  |       |

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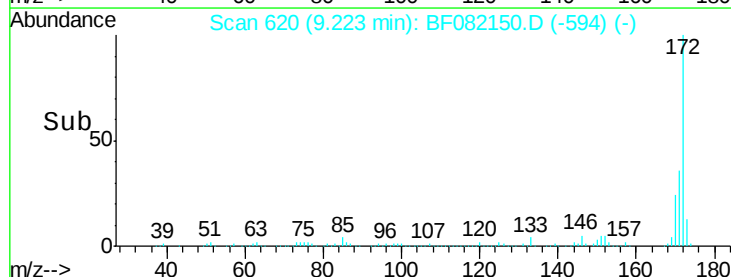
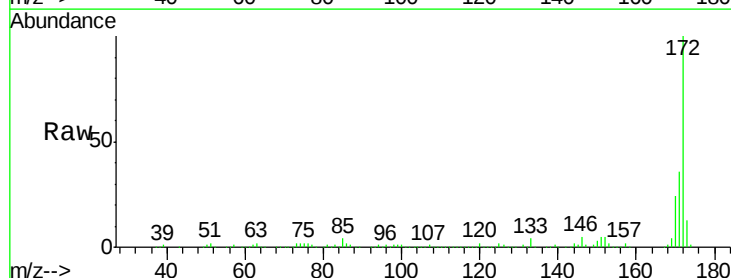
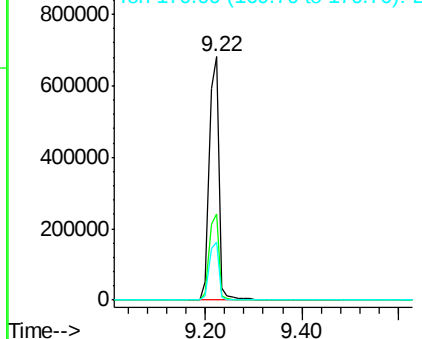
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

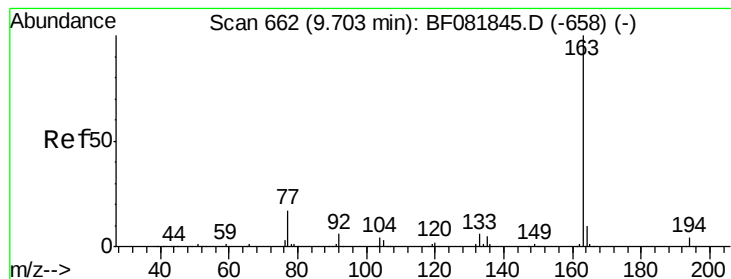


#44  
 2-Fluorobiphenyl  
 Concen: 80.74 ng  
 RT: 9.22 min Scan# 620  
 Delta R.T. -0.00 min  
 Lab File: BF082150.D  
 Acq: 9 Oct 2015 17:39

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 970459 |       |       |
| 171     | 35.6  | 26.1   | 39.1  |       |
| 170     | 24.1  | 17.4   | 26.2  |       |

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: 17.40 ng

RT: 9.61 min Scan# 654

Delta R.T. -0.02 min

Lab File: BF082150.D

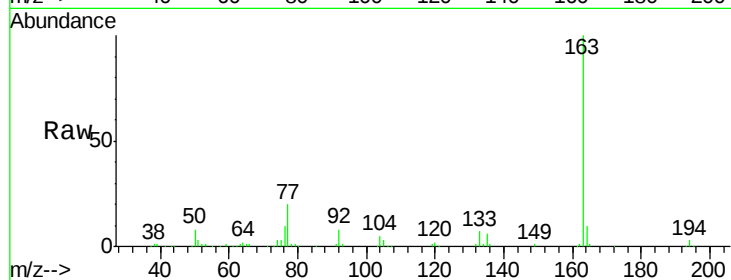
Acq: 9 Oct 2015 17:39

Instrument :

BNA\_F

ClientSampleId :

IM-MLA-(1.5-02)-R



Tgt Ion:163 Resp: 239164

Ion Ratio Lower Upper

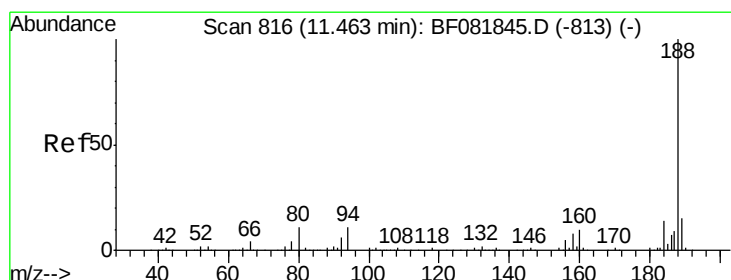
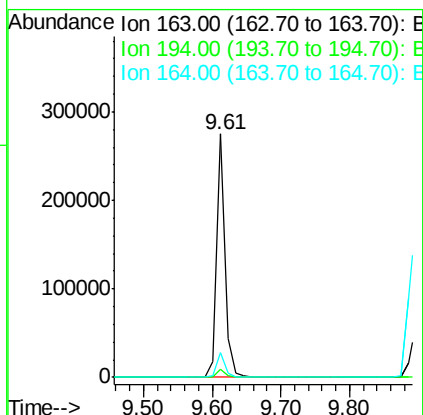
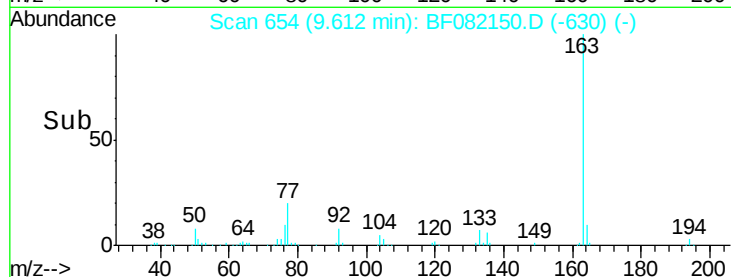
163 100

194 3.2 4.4 6.6#

164 10.1 8.3 12.5

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#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.38 min Scan# 809

Delta R.T. -0.00 min

Lab File: BF082150.D

Acq: 9 Oct 2015 17:39

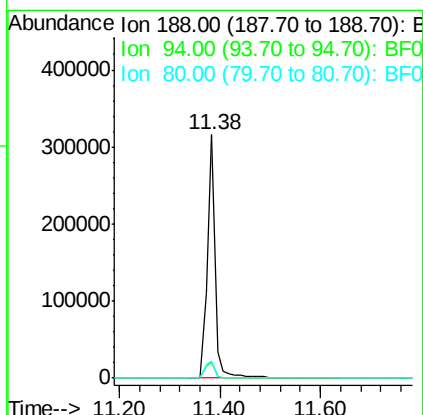
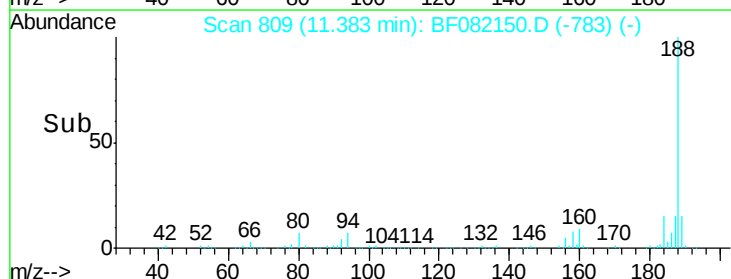
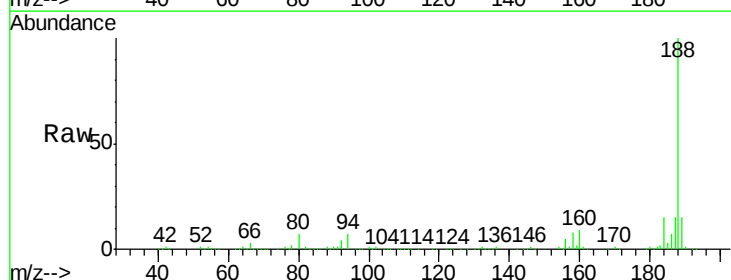
Tgt Ion:188 Resp: 342258

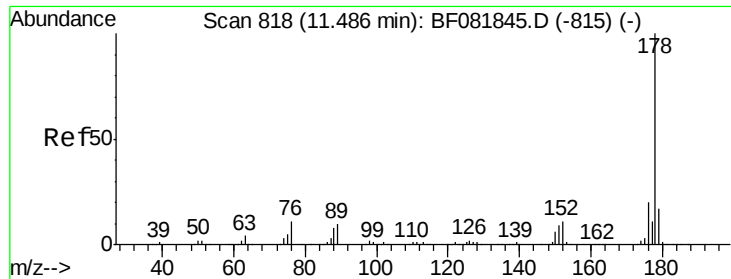
Ion Ratio Lower Upper

188 100

94 6.7 11.1 16.7#

80 7.0 11.0 16.4#





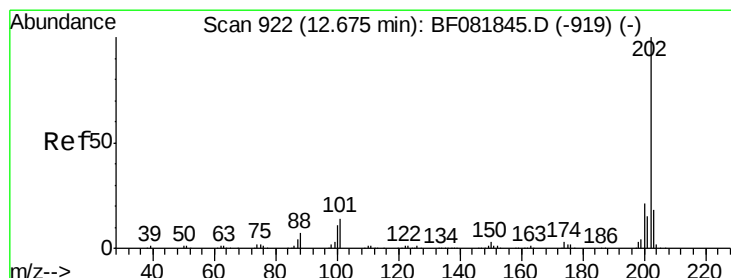
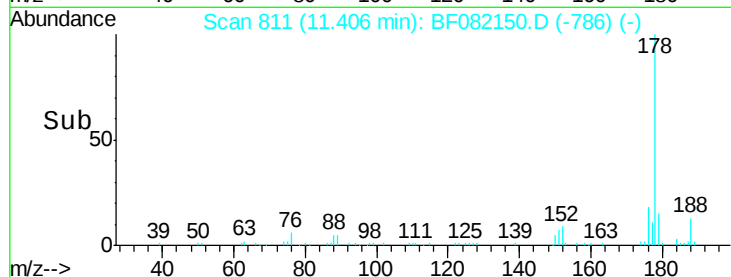
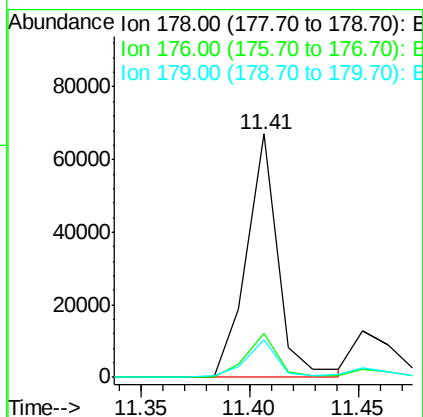
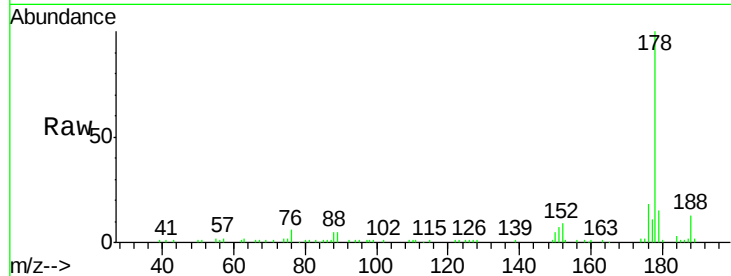
#70  
Phenanthrene  
Concen: 2.53 ng  
RT: 11.41 min Scan# 811  
Delta R.T. -0.01 min  
Lab File: BF082150.D  
Acq: 9 Oct 2015 17:39

Instrument :  
BNA\_F  
ClientSampleId :  
IM-MLA-(1.5-02)-R

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.2  | 13.8  | 20.8  |
| 179     | 15.5  | 12.2  | 18.2  |

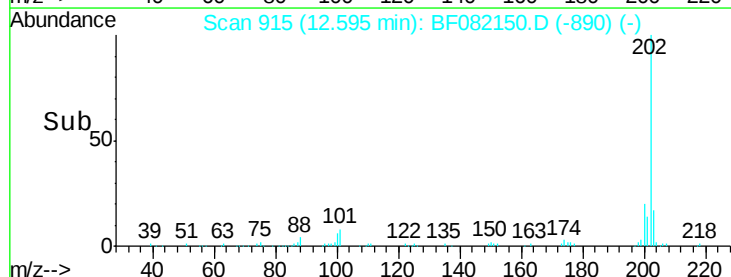
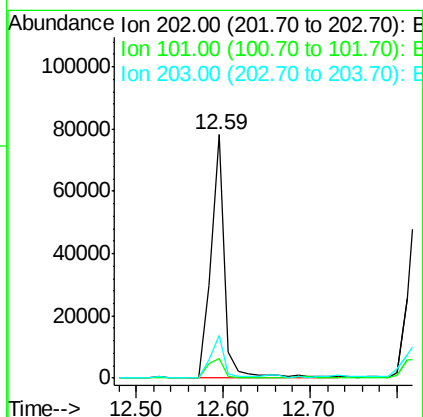
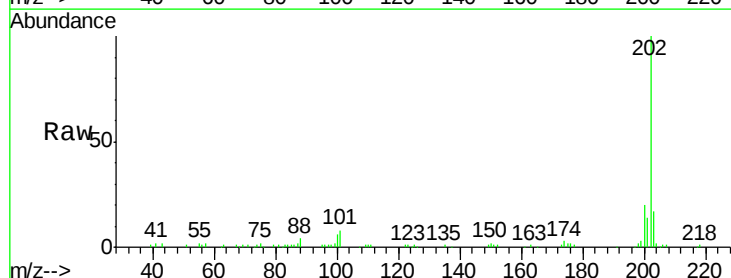
Manual Integrations  
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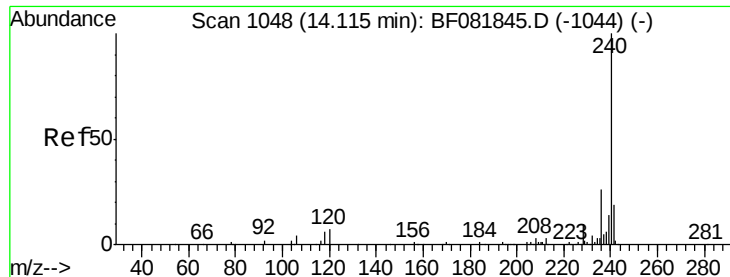
MMDadoda  
10/12/2015 2:43:47 PM



#74  
Fluoranthene  
Concen: 4.69 ng  
RT: 12.59 min Scan# 915  
Delta R.T. -0.01 min  
Lab File: BF082150.D  
Acq: 9 Oct 2015 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.9   | 0.0   | 38.3  |
| 203     | 17.3  | 0.0   | 37.3  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.02 min Scan# 1040

Delta R.T. -0.01 min

Lab File: BF082150.D

Acq: 9 Oct 2015 17:39

Instrument :

BNA\_F

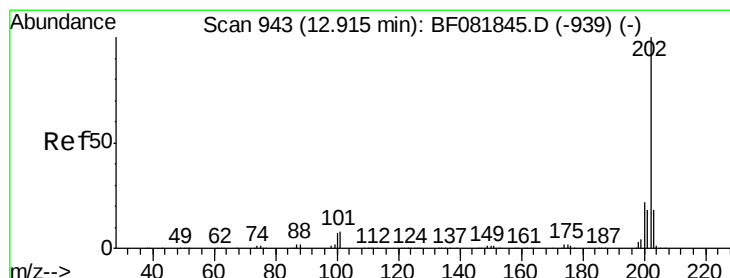
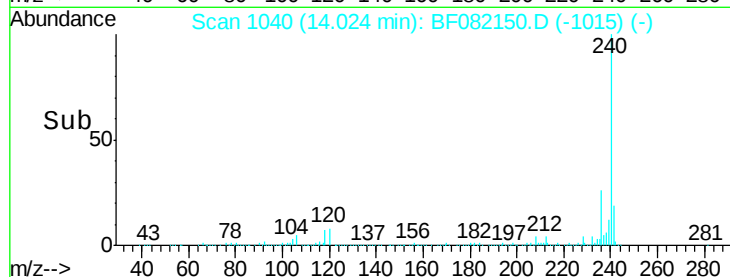
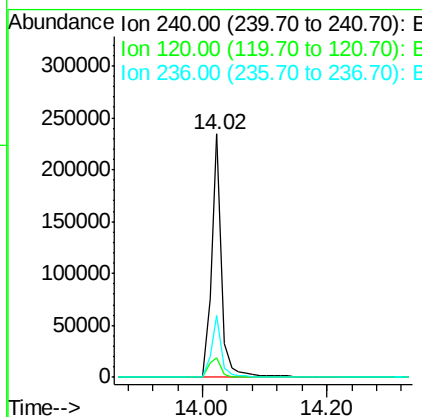
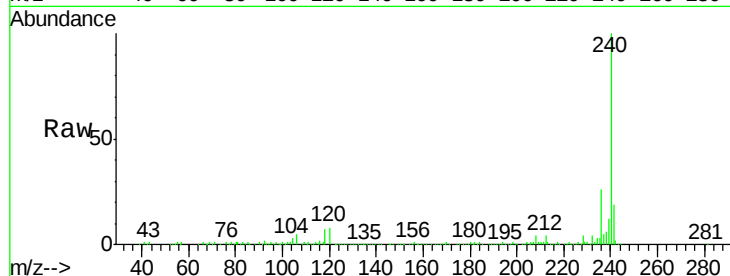
ClientSampleId :

IM-MLA-(1.5-02)-R

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 259391 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 7.8   | 16.2  | 24.2#  |
| 236       | 25.5  | 18.4  | 27.6   |

Manual Integrations  
APPROVED

MMDadoda  
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#77

Pyrene

Concen: 5.01 ng

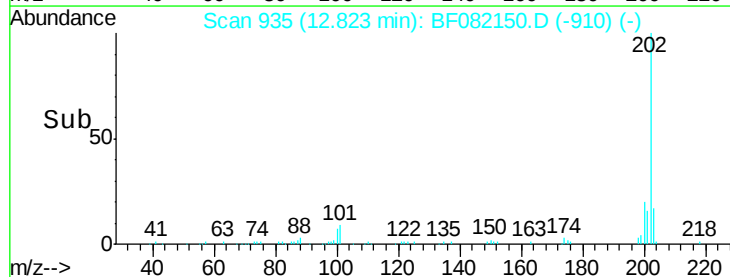
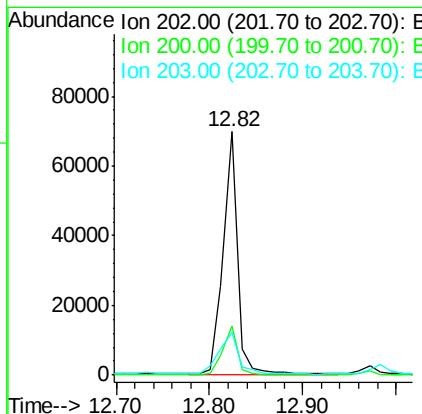
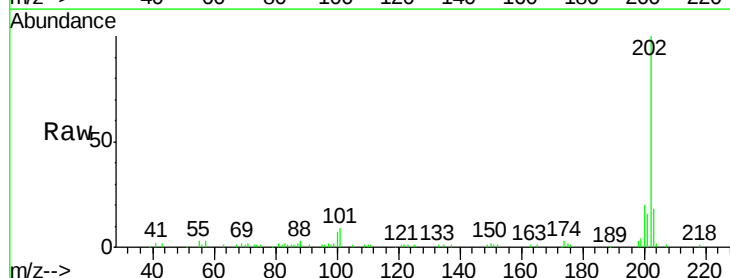
RT: 12.82 min Scan# 935

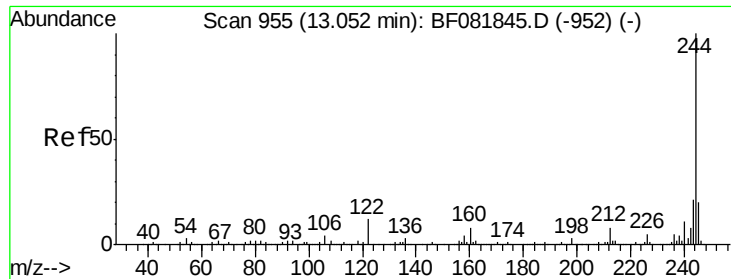
Delta R.T. -0.01 min

Lab File: BF082150.D

Acq: 9 Oct 2015 17:39

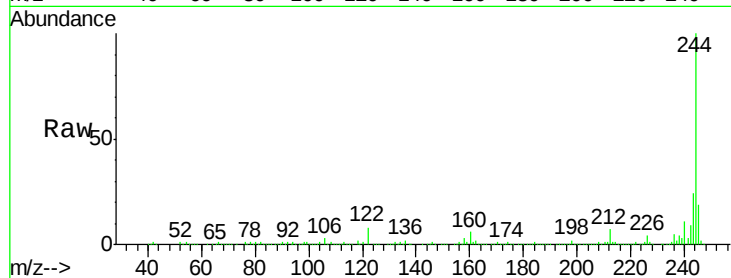
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 77607 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.1  | 15.0  | 22.4  |
| 203       | 17.6  | 14.1  | 21.1  |





#78  
 Terphenyl-d14  
 Concen: 96.47 ng  
 RT: 12.97 min Scan# 948  
 Delta R.T. -0.00 min  
 Lab File: BF082150.D  
 Acq: 9 Oct 2015 17:39

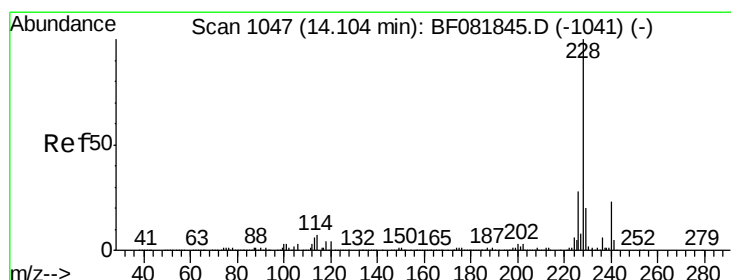
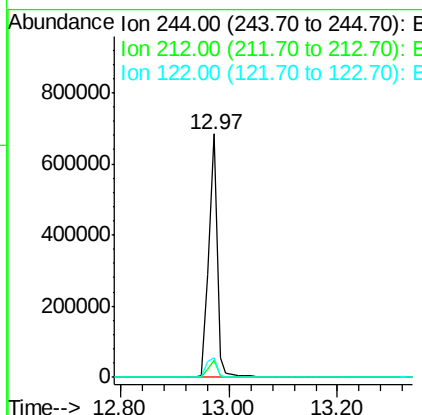
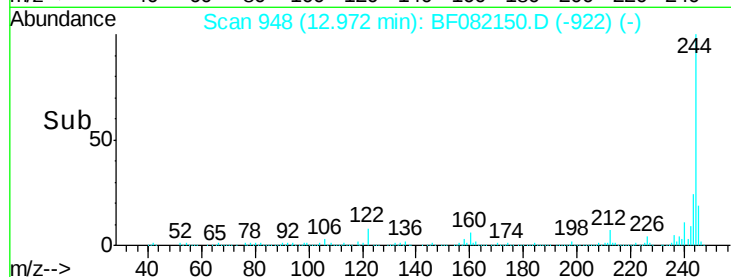
Instrument :  
 BNA\_F  
 ClientSampleId :  
 IM-MLA-(1.5-02)-R



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 4.3   | 6.5#  |
| 122     | 7.8   | 17.4  | 26.2# |

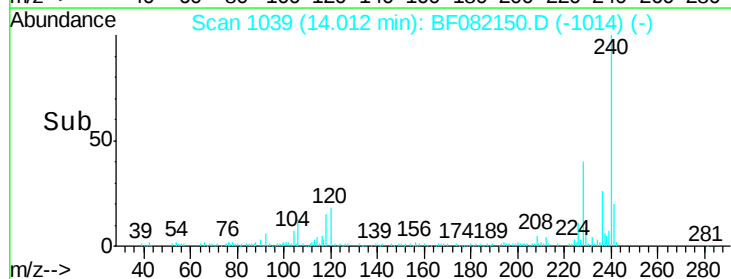
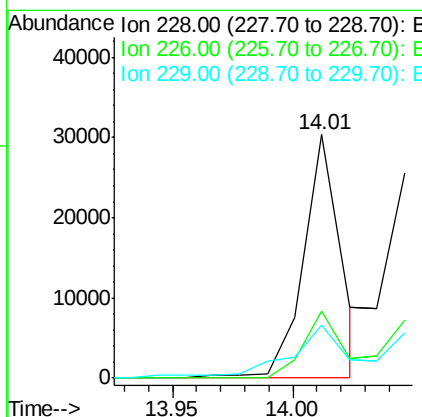
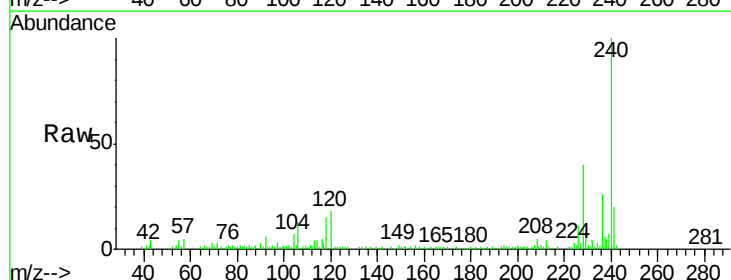
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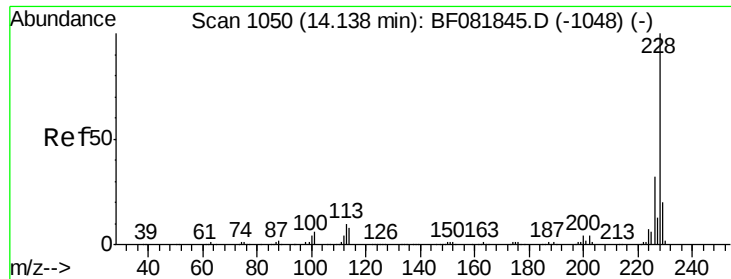
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#80  
 Benzo(a)anthracene  
 Concen: 2.36 ng m  
 RT: 14.01 min Scan# 1039  
 Delta R.T. -0.01 min  
 Lab File: BF082150.D  
 Acq: 9 Oct 2015 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.5  | 20.0  | 30.0  |
| 229     | 21.6  | 15.4  | 23.2  |





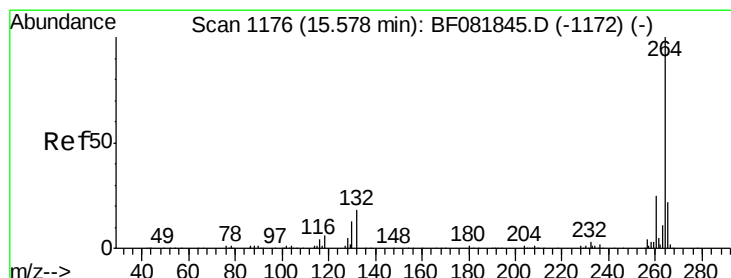
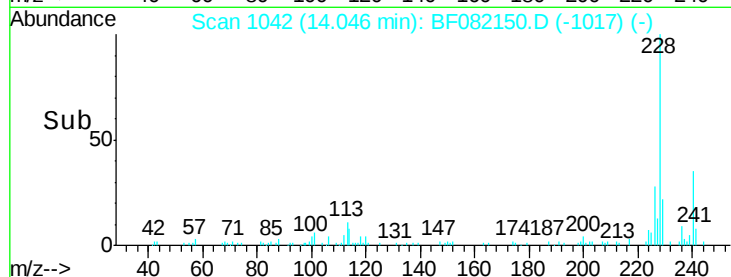
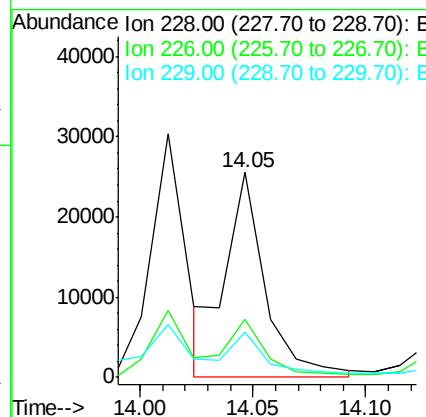
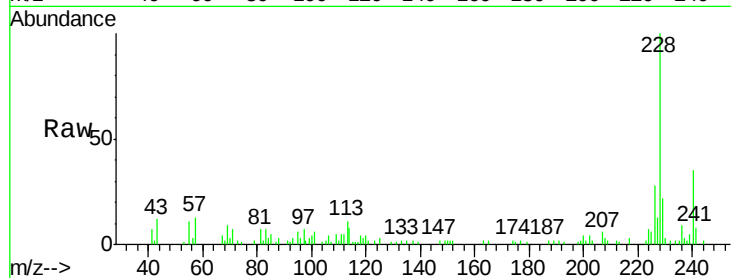
#82  
Chrysene  
Concen: 2.59 ng m  
RT: 14.05 min Scan# 1042  
Delta R.T. -0.01 min  
Lab File: BF082150.D  
Acq: 9 Oct 2015 17:39

Instrument :  
BNA\_F  
ClientSampleId :  
IM-MLA-(1.5-02)-R

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.4  | 21.0  | 31.4  |
| 229     | 22.3  | 15.6  | 23.4  |

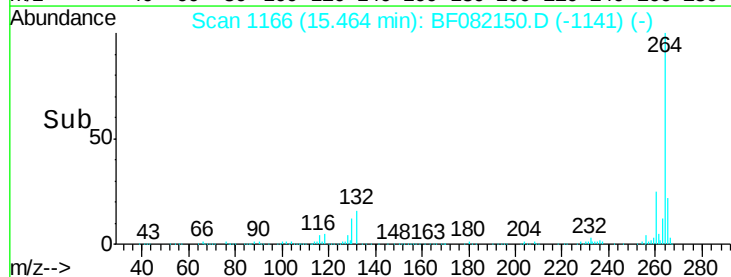
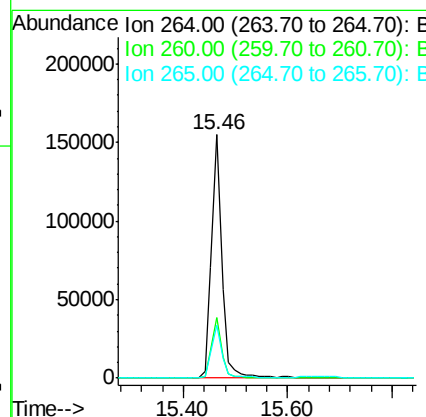
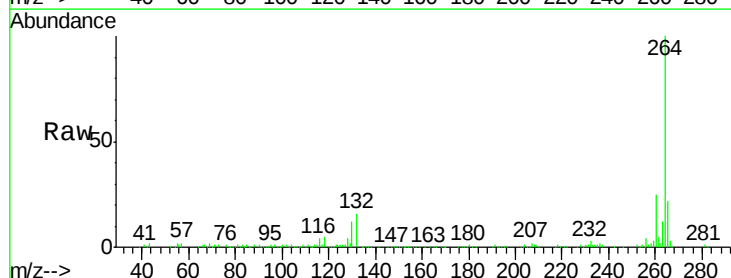
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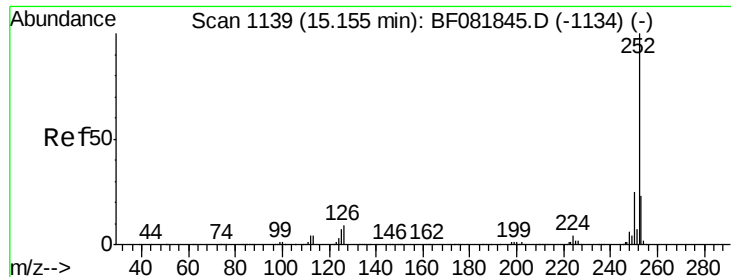
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.46 min Scan# 1166  
Delta R.T. -0.01 min  
Lab File: BF082150.D  
Acq: 9 Oct 2015 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 16.7  | 25.1  |
| 265     | 21.9  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 2.62 ng m

RT: 15.04 min Scan# 1129

Delta R.T. -0.01 min

Lab File: BF082150.D

Acq: 9 Oct 2015 17:39

Instrument :

BNA\_F

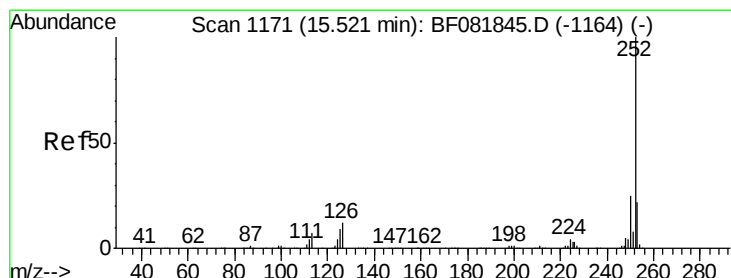
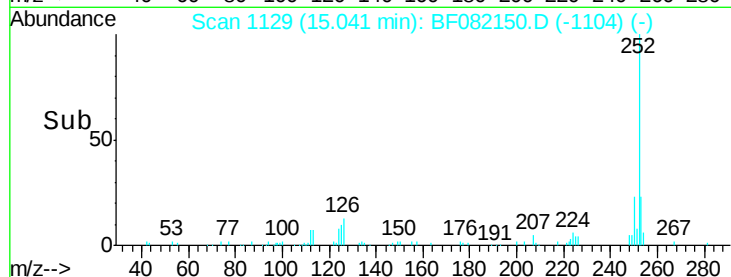
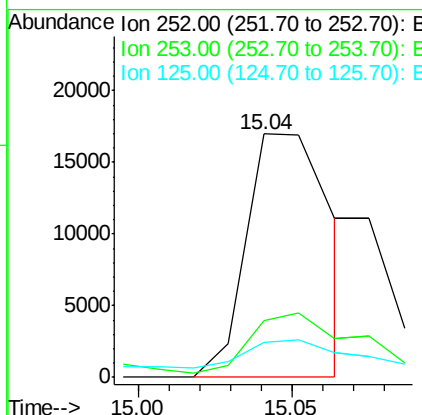
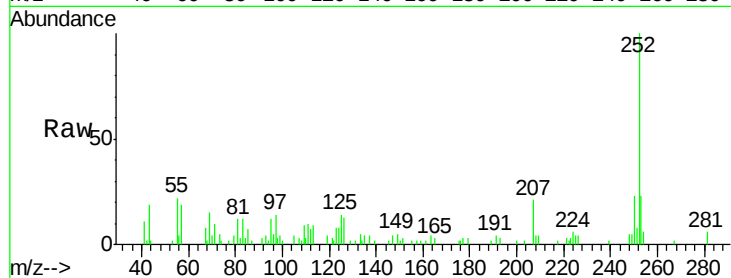
ClientSampleId :

IM-MLA-(1.5-02)-R

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 32500 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.3  | 17.5  | 26.3  |
| 125       | 14.4  | 17.1  | 25.7# |

Manual Integrations  
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#89

Benzo(a)pyrene

Concen: 2.29 ng

RT: 15.40 min Scan# 1160

Delta R.T. -0.02 min

Lab File: BF082150.D

Acq: 9 Oct 2015 17:39

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 24735 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.1  | 17.2  | 25.8  |
| 125       | 17.7  | 18.0  | 27.0# |

