

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110815\  
 Data File : BF082808.D  
 Acq On : 7 Nov 2015 14:01  
 Operator : UM/IZ  
 Sample : G4257-11  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WABUT-6(0-2)

Manual Integrations  
 APPROVED

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 11/9/2015 2:08:29 PM

Quant Time: Nov 09 00:57:58 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Nov 07 02:32:49 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)   |
|-----------------------------|-------|------|----------|--------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.85  | 152  | 254974   | 20.00  | ng    | 0.00       |
| 21) Naphthalene-d8          | 8.13  | 136  | 865834   | 20.00  | ng    | -0.01      |
| 38) Acenaphthene-d10        | 9.89  | 164  | 430860   | 20.00  | ng    | 0.00       |
| 63) Phenanthrene-d10        | 11.37 | 188  | 628541   | 20.00  | ng    | -0.01      |
| 75) Chrysene-d12            | 14.01 | 240  | 532290   | 20.00  | ng    | -0.01      |
| 86) Perylene-d12            | 15.45 | 264  | 476056   | 20.00  | ng    | -0.01      |
| System Monitoring Compounds |       |      |          |        |       |            |
| 5) 2-Fluorophenol           | 5.47  | 112  | 1766651  | 107.81 | ng    | 0.02       |
| 7) Phenol-d6                | 6.49  | 99   | 1975099  | 90.66  | ng    | 0.01       |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 1428775  | 71.80  | ng    | 0.00       |
| 41) 2,4,6-Tribromophenol    | 10.68 | 330  | 423134   | 85.65  | ng    | 0.00       |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 2078651  | 69.15  | ng    | 0.00       |
| 78) Terphenyl-d14           | 12.96 | 244  | 1353344  | 60.30  | ng    | -0.01      |
| Target Compounds            |       |      |          |        |       |            |
| 49) Dimethylphthalate       | 9.61  | 163  | 574509   | 16.27  | ng    | Qvalue 100 |
| 74) Fluoranthene            | 12.58 | 202  | 109091   | 2.79   | ng    | 96         |
| 77) Pyrene                  | 12.81 | 202  | 97253    | 2.66   | ng    | 97         |
| 87) Benzo(b)fluoranthene    | 15.04 | 252  | 87404m   | 2.86   | ng    |            |
| 91) Benzo(g,h,i)perylene    | 17.25 | 276  | 53536    | 2.49   | ng    | # 90       |

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

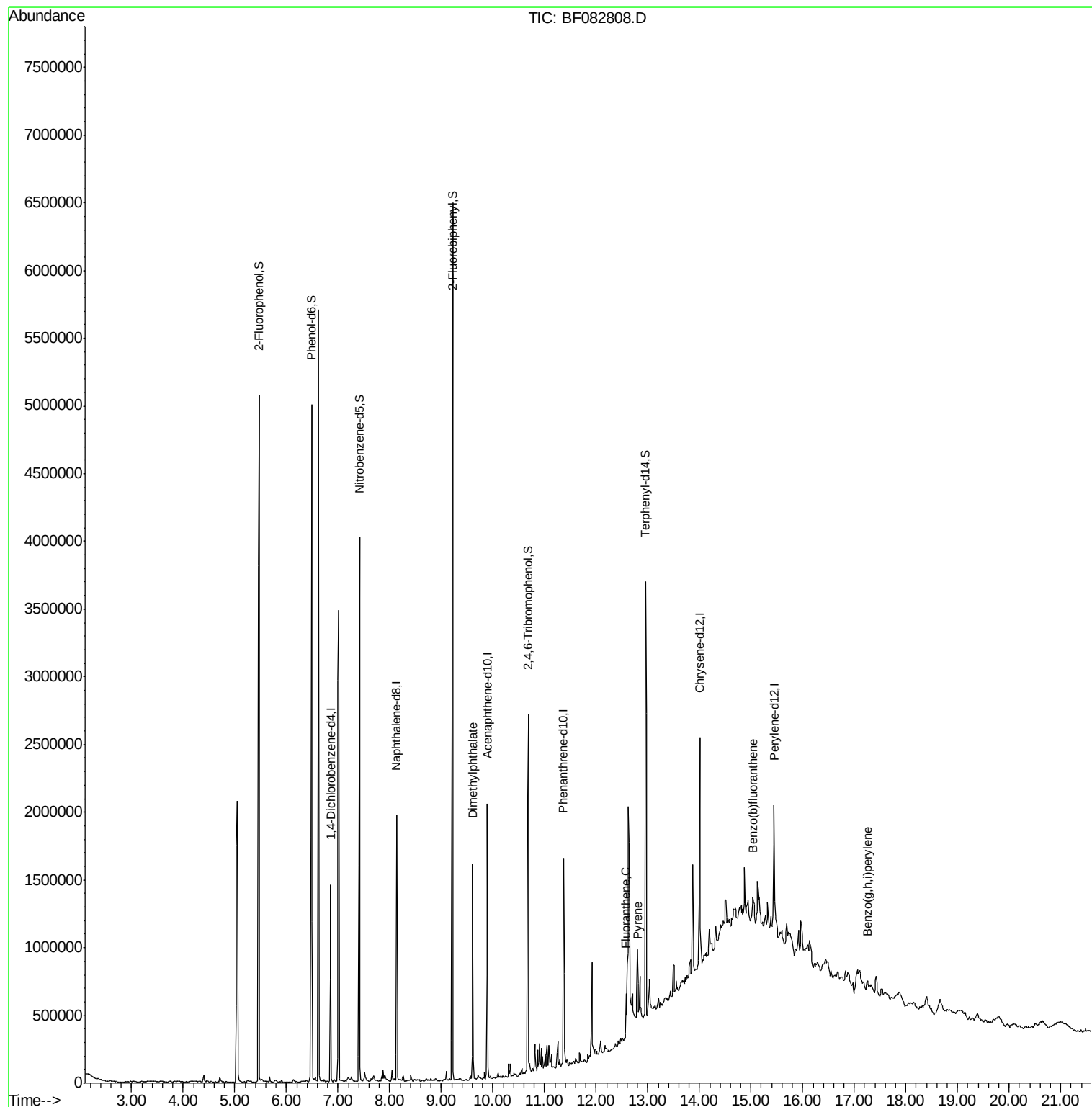
Data Path : Z:\HPCHEM1\BNA F\DATA\BF110815\  
Data File : BF082808.D  
Acq On : 7 Nov 2015 14:01  
Operator : UM/IZ  
Sample : G4257-11  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

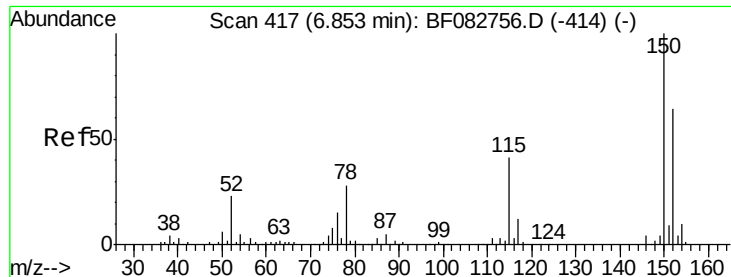
Instrument :  
BNA\_F  
ClientSampleId :  
WABUT-6(0-2)

Manual Integrations  
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11/9/2015 2:08:29 PM

Quant Time: Nov 09 00:57:58 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Nov 07 02:32:49 2015  
Response via : Initial Calibration





#1

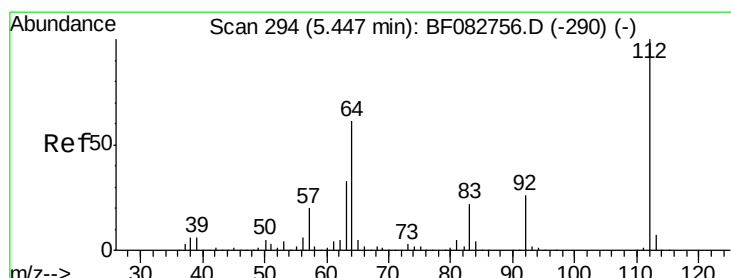
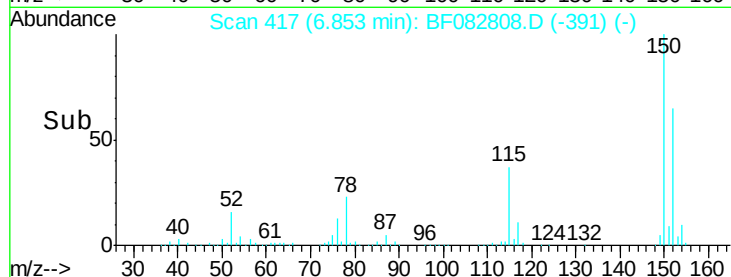
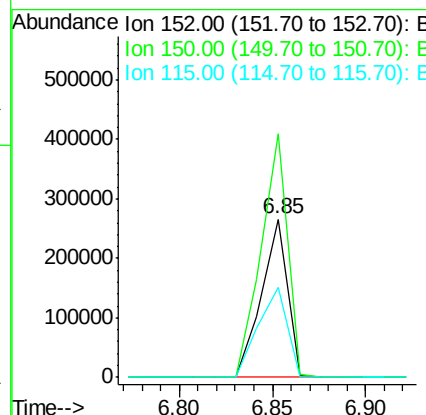
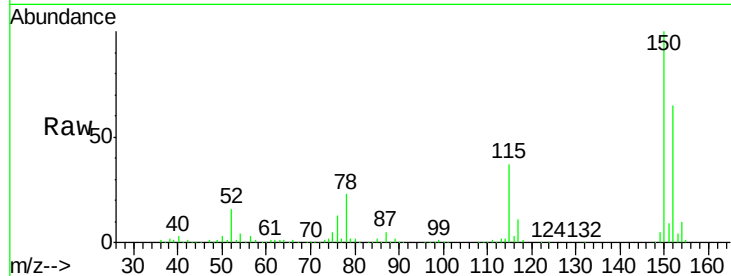
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.85 min Scan# 417  
Delta R.T. 0.00 min  
Lab File: BF082808.D  
Acq: 7 Nov 2015 14:01

Instrument :  
BNA\_F  
ClientSampleId :  
WABUT-6(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.9 | 127.0 | 190.4 |
| 115     | 56.8  | 47.0  | 70.6  |

Manual Integrations  
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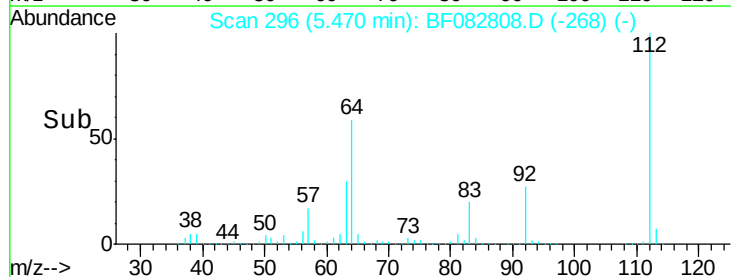
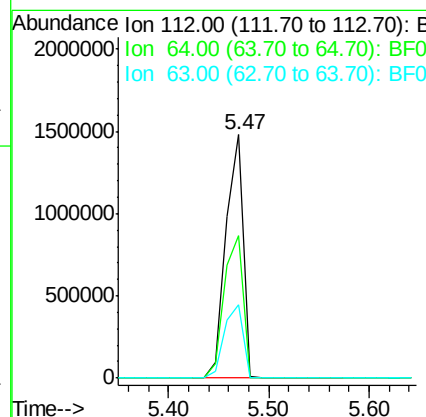
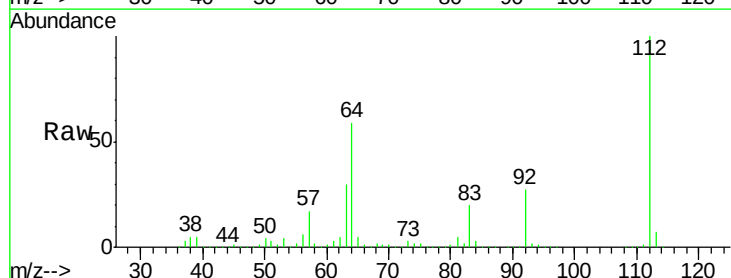
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11/9/2015 2:08:29 PM

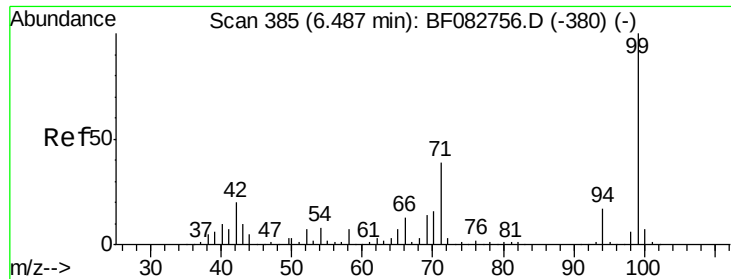


#5

2-Fluorophenol  
Concen: 107.81 ng  
RT: 5.47 min Scan# 296  
Delta R.T. 0.02 min  
Lab File: BF082808.D  
Acq: 7 Nov 2015 14:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.8  | 48.9  | 73.3  |
| 63      | 30.3  | 28.1  | 42.1  |





#7

Phenol-d6

Concen: 90.66 ng

RT: 6.49 min Scan# 385

Delta R.T. 0.01 min

Lab File: BF082808.D

Acq: 7 Nov 2015 14:01

Instrument :

BNA\_F

ClientSampleId :

WABUT-6(0-2)

Tot Ion: 99 Resp: 1975099

Ion Ratio Lower Upper

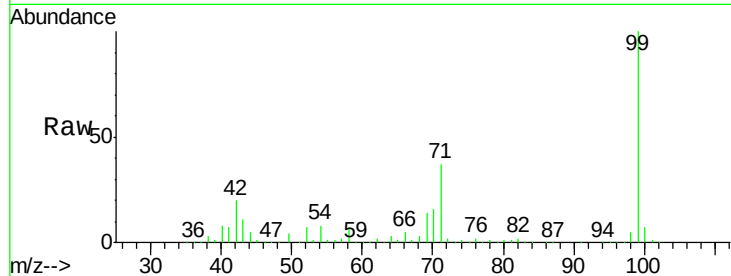
99 100

42 19.8 19.2 28.8

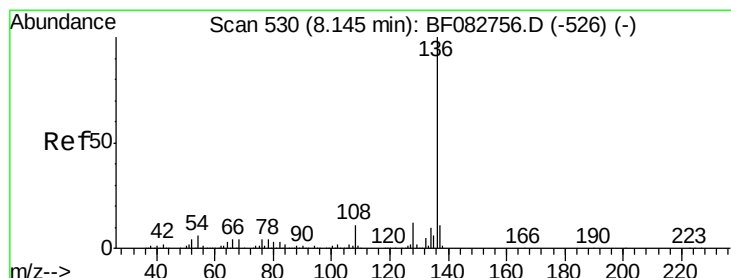
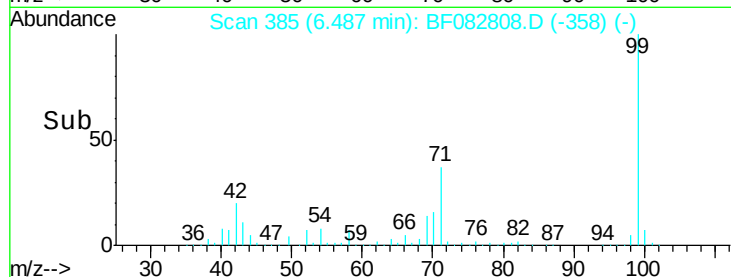
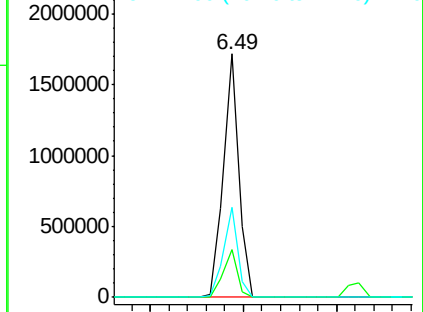
71 37.1 35.0 52.4

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Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.13 min Scan# 529

Delta R.T. -0.01 min

Lab File: BF082808.D

Acq: 7 Nov 2015 14:01

Tgt Ion: 136 Resp: 865834

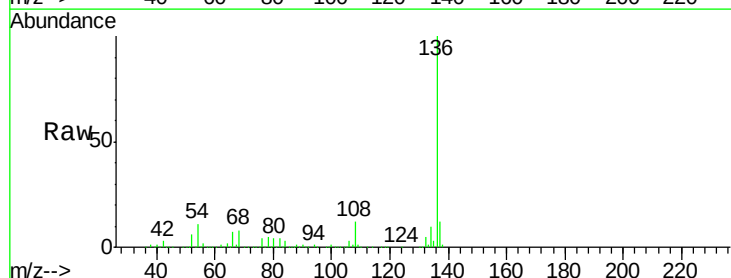
Ion Ratio Lower Upper

136 100

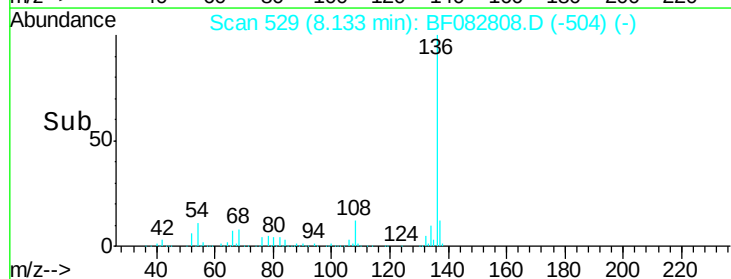
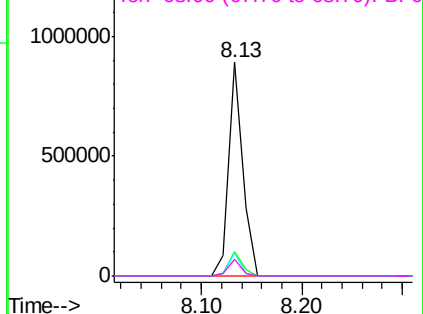
137 11.6 9.1 13.7

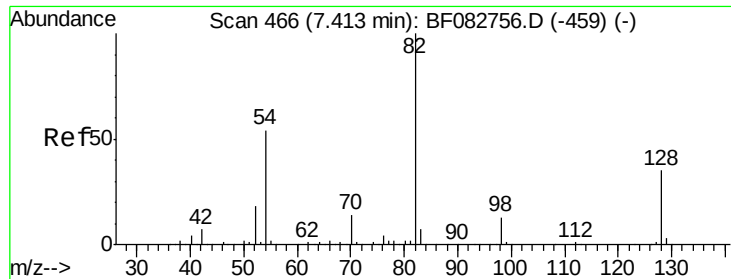
54 10.8 9.1 13.7

68 7.9 4.8 7.2#



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: 71.80 ng

RT: 7.41 min Scan# 466

Delta R.T. 0.00 min

Lab File: BF082808.D

Acq: 7 Nov 2015 14:01

Instrument :

BNA\_F

ClientSampleId :

WABUT-6(0-2)

Tot Ion: 82 Resp: 1428775

Ion Ratio Lower Upper

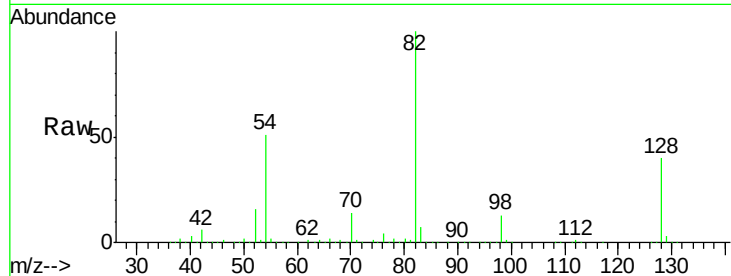
82 100

128 39.9 26.8 40.2

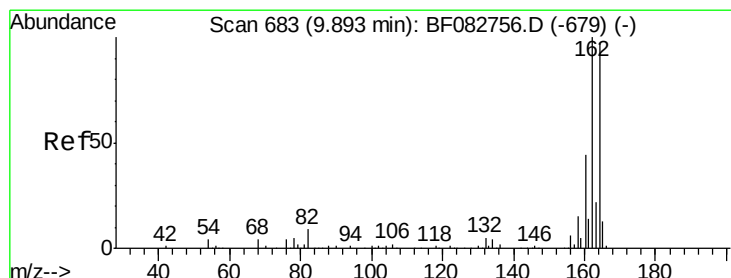
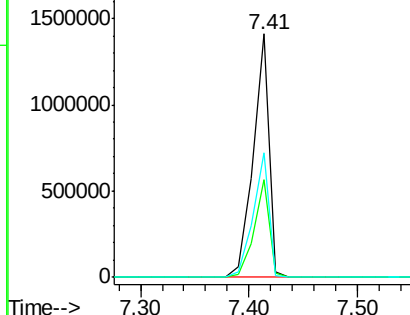
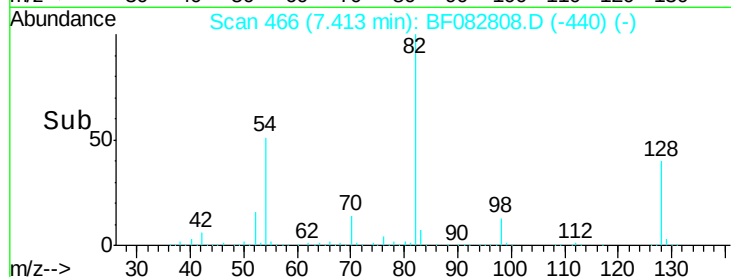
54 51.4 45.7 68.5

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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: 9.89 min Scan# 683

Delta R.T. 0.00 min

Lab File: BF082808.D

Acq: 7 Nov 2015 14:01

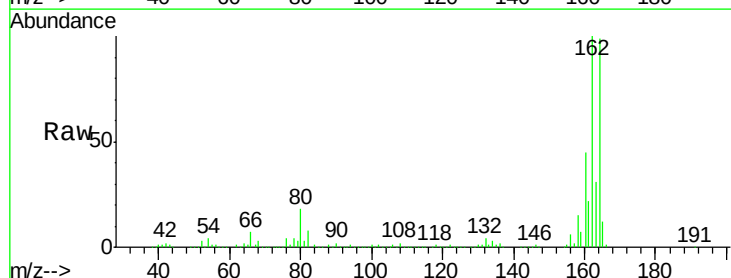
Tgt Ion:164 Resp: 430860

Ion Ratio Lower Upper

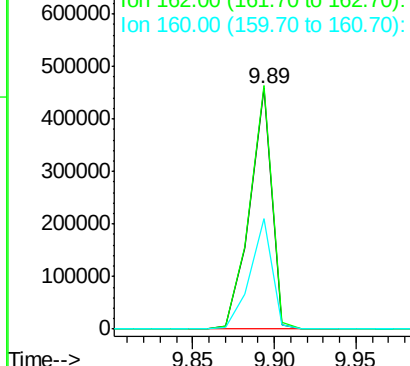
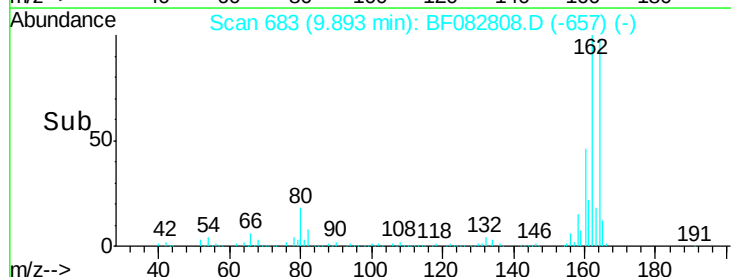
164 100

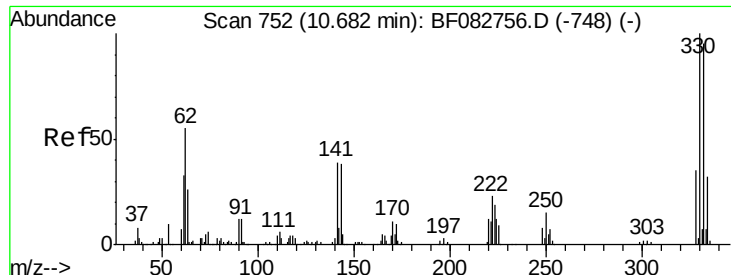
162 101.1 84.9 127.3

160 46.0 37.5 56.3



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E





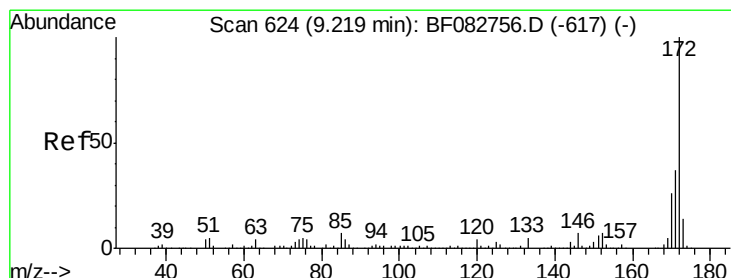
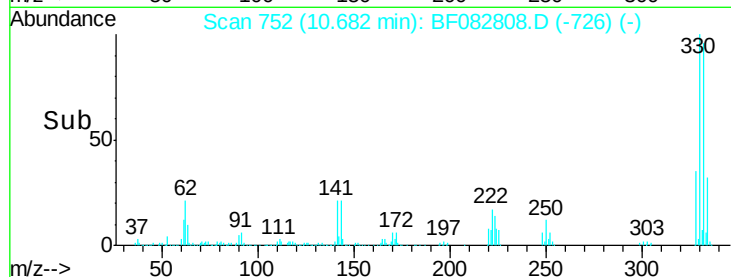
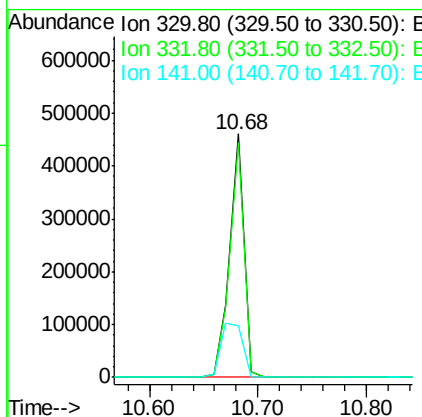
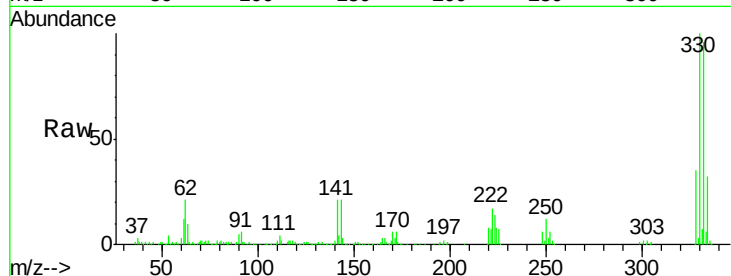
#41  
 2,4,6-Tribromophenol  
 Concen: 85.65 ng  
 RT: 10.68 min Scan# 752  
 Delta R.T. 0.00 min  
 Lab File: BF082808.D  
 Acq: 7 Nov 2015 14:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WABUT-6(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 76.6  | 114.8 |
| 141     | 34.1  | 41.2  | 61.8# |

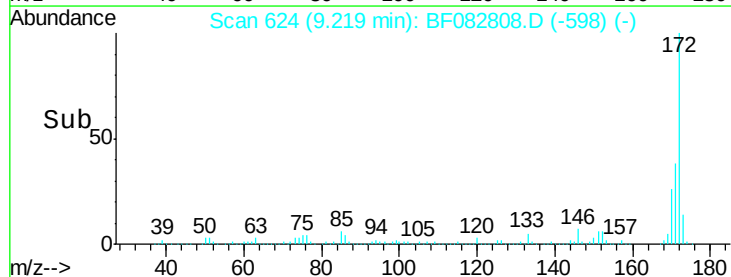
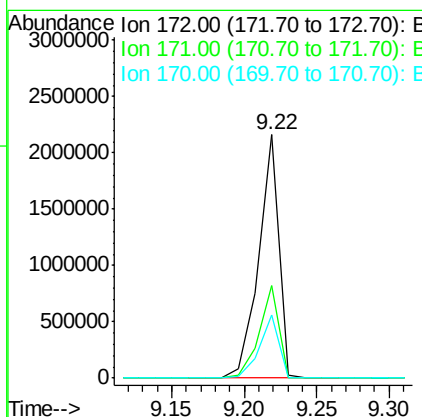
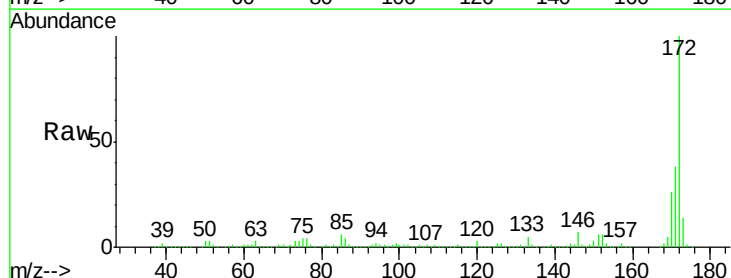
Manual Integrations  
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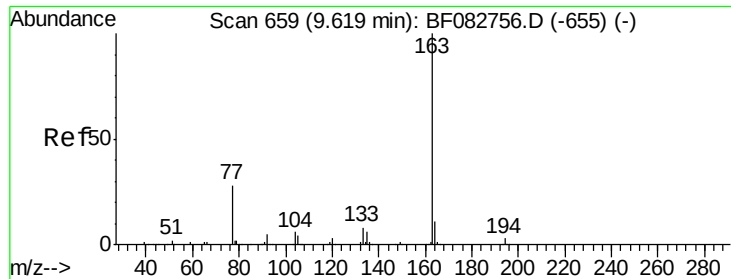
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#44  
 2-Fluorobiphenyl  
 Concen: 69.15 ng  
 RT: 9.22 min Scan# 624  
 Delta R.T. 0.00 min  
 Lab File: BF082808.D  
 Acq: 7 Nov 2015 14:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.0  | 30.8  | 46.2  |
| 170     | 26.0  | 21.2  | 31.8  |





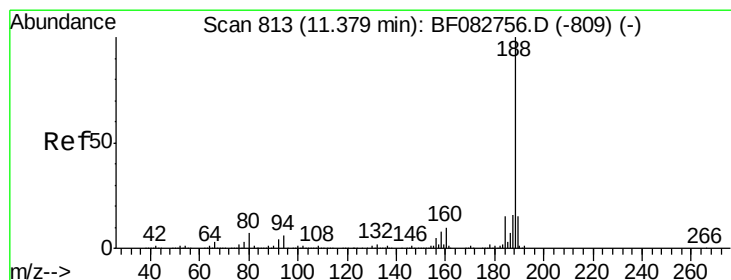
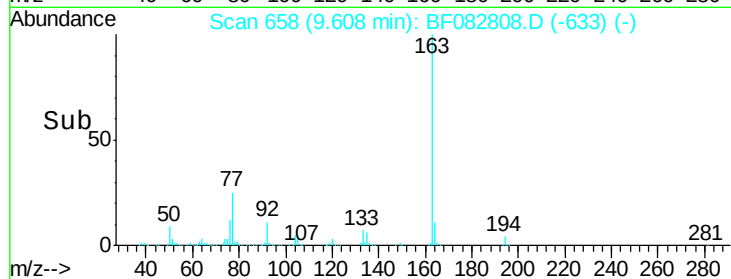
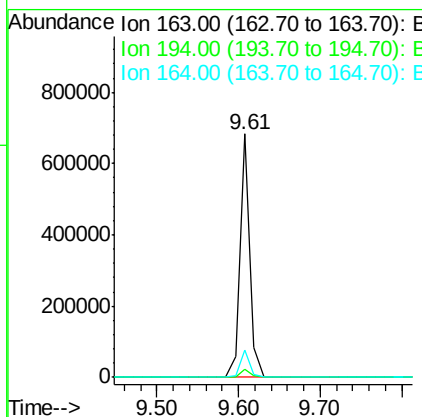
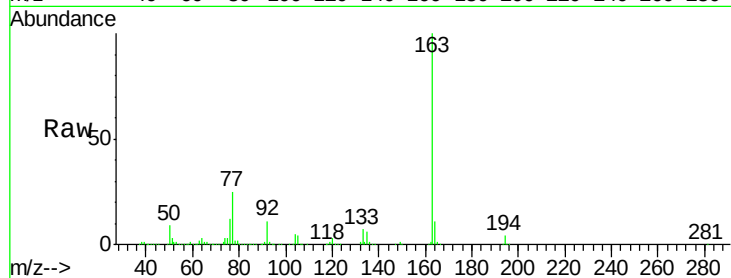
#49  
Dimethylphthalate  
Concen: 16.27 ng  
RT: 9.61 min Scan# 658  
Delta R.T. -0.01 min  
Lab File: BF082808.D  
Acq: 7 Nov 2015 14:01

Instrument :  
BNA\_F  
ClientSampleId :  
WABUT-6(0-2)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 574509 |       |       |
| 194     | 3.5   |        | 2.6   | 4.0   |
| 164     | 11.0  |        | 8.7   | 13.1  |

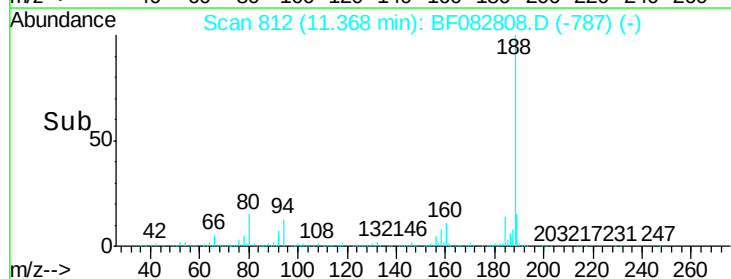
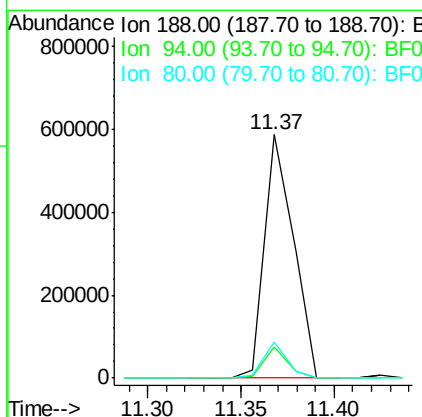
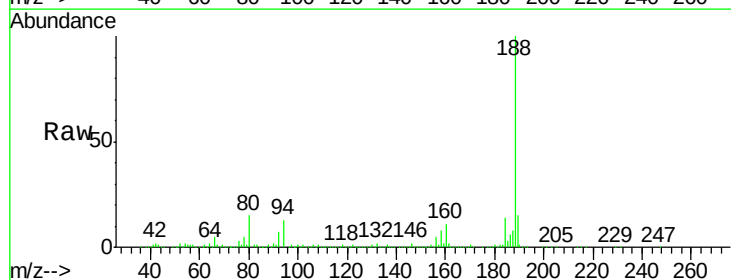
Manual Integrations  
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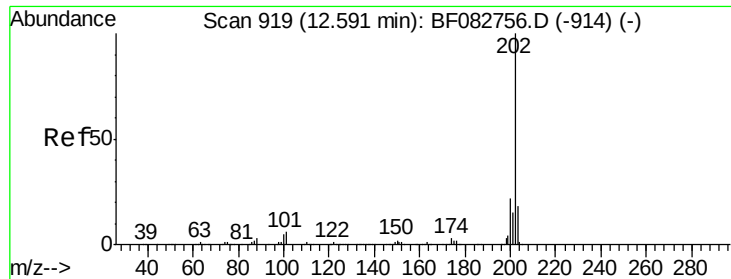
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.37 min Scan# 812  
Delta R.T. -0.01 min  
Lab File: BF082808.D  
Acq: 7 Nov 2015 14:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 628541 |       |       |
| 94      | 12.7  |        | 6.1   | 9.1#  |
| 80      | 14.7  |        | 7.0   | 10.6# |





#74

Fluoranthene

Concen: 2.79 ng

RT: 12.58 min Scan# 918

Delta R.T. -0.01 min

Lab File: BF082808.D

Acq: 7 Nov 2015 14:01

Instrument :

BNA\_F

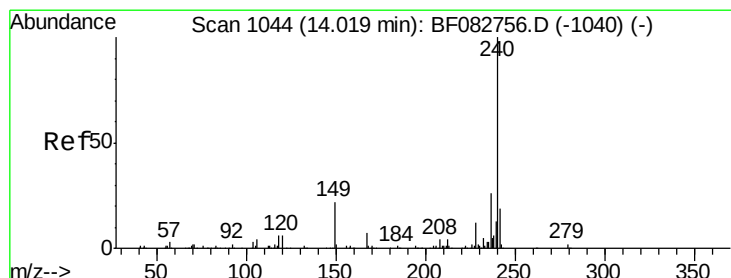
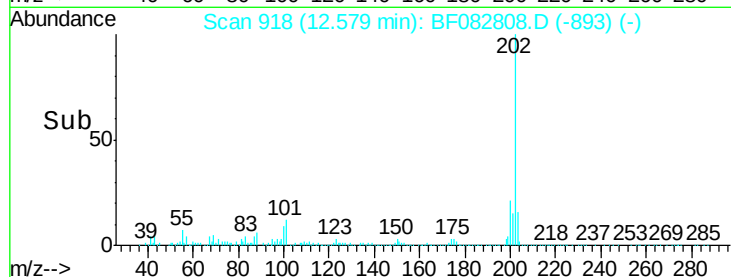
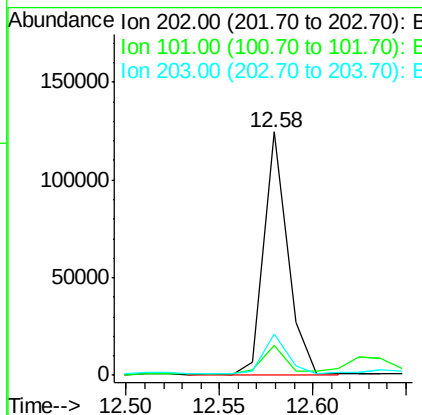
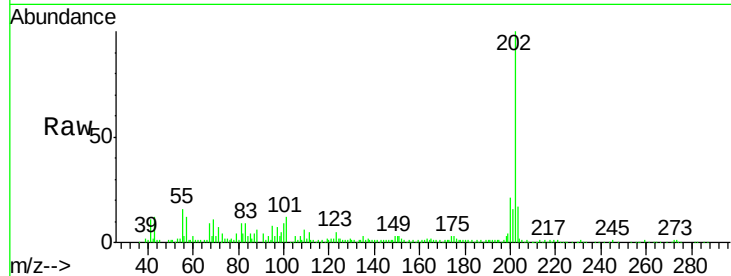
ClientSampleId :

WABUT-6(0-2)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 109091 |       |       |
| 101     | 12.2 | 0.0   | 30.5   |       |       |
| 203     | 16.9 | 0.0   | 38.5   |       |       |

Manual Integrations  
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#75

Chrysene-d12

Concen: 20.00 ng

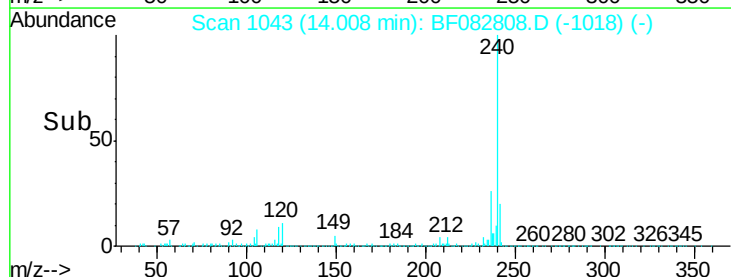
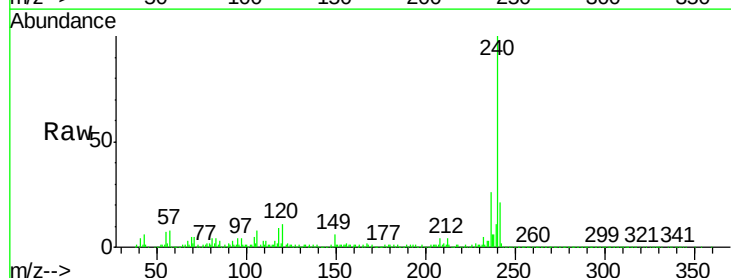
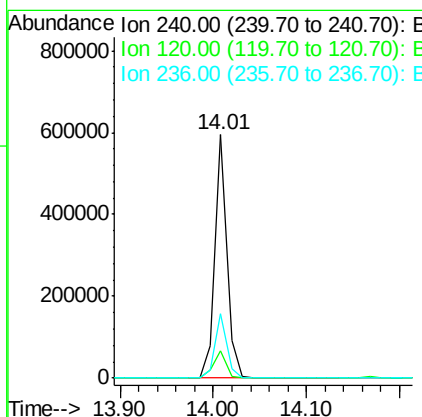
RT: 14.01 min Scan# 1043

Delta R.T. -0.01 min

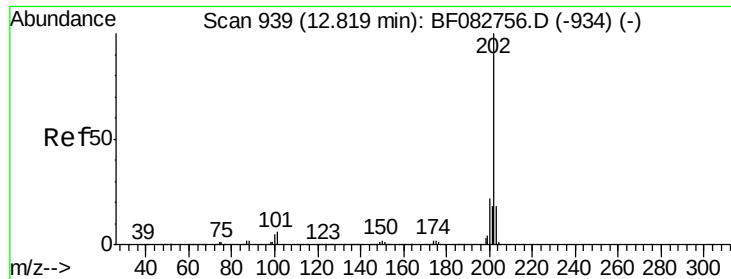
Lab File: BF082808.D

Acq: 7 Nov 2015 14:01

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 240     | 100  |       | 532290 |       |       |
| 120     | 11.1 | 10.9  | 16.3   |       |       |
| 236     | 26.3 | 21.6  | 32.4   |       |       |







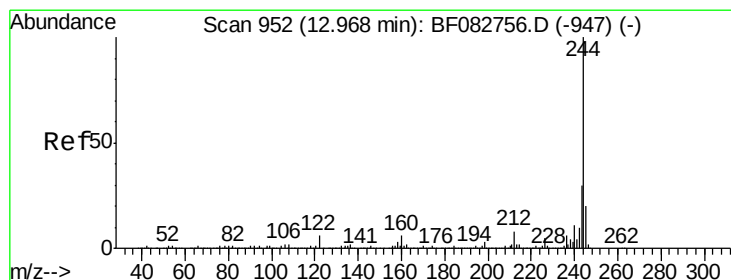
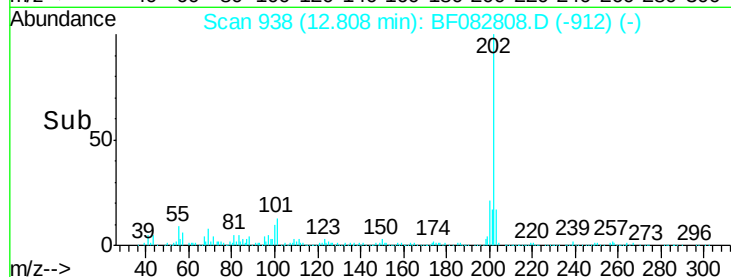
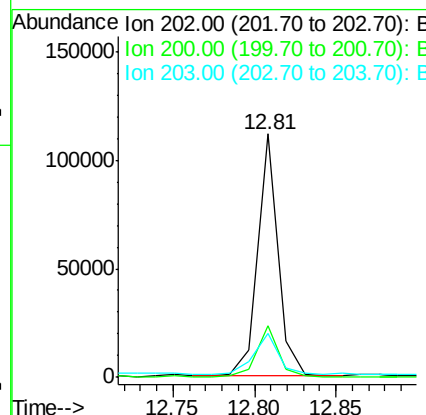
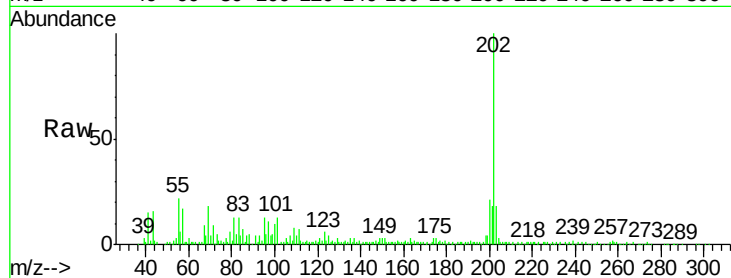
#77  
Pvrene  
Concen: 2.66 ng  
RT: 12.81 min Scan# 938  
Delta R.T. 0.00 min  
Lab File: BF082808.D  
Acq: 7 Nov 2015 14:01

Instrument :  
BNA\_F  
ClientSampleId :  
WABUT-6(0-2)

|           |      |       |       |
|-----------|------|-------|-------|
| Tot Ion:  | 202  | Resp: | 97253 |
| Ion Ratio |      | Lower | Upper |
| 202       | 100  |       |       |
| 200       | 21.2 | 18.7  | 28.1  |
| 203       | 18.3 | 14.8  | 22.2  |

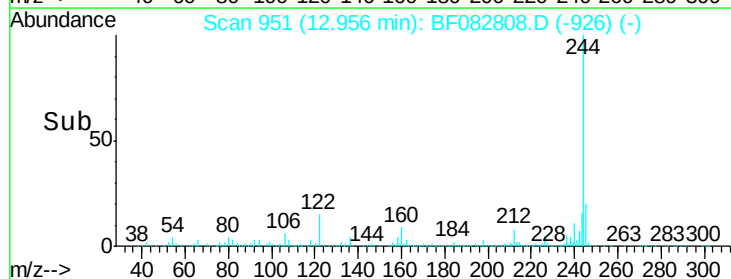
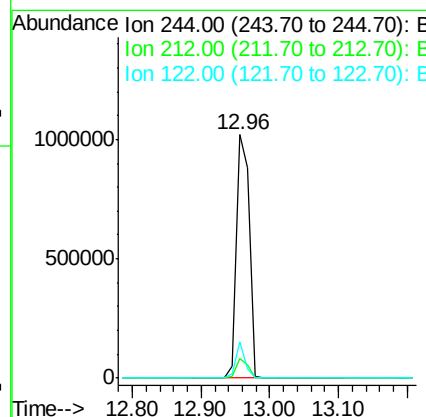
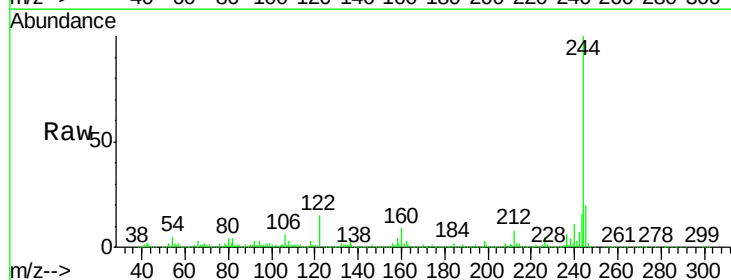
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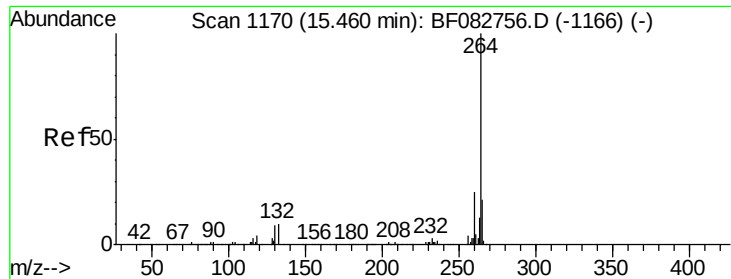
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11/9/2015 2:08:29 PM



#78  
Terphenyl-d14  
Concen: 60.30 ng  
RT: 12.96 min Scan# 951  
Delta R.T. -0.01 min  
Lab File: BF082808.D  
Acq: 7 Nov 2015 14:01

|           |      |       |         |
|-----------|------|-------|---------|
| Tgt Ion:  | 244  | Resp: | 1353344 |
| Ion Ratio |      | Lower | Upper   |
| 244       | 100  |       |         |
| 212       | 8.1  | 7.6   | 11.4    |
| 122       | 14.7 | 11.3  | 16.9    |





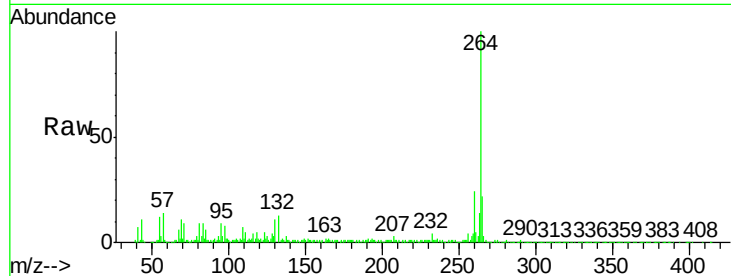
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.45 min Scan# 1169  
Delta R.T. -0.01 min  
Lab File: BF082808.D  
Acq: 7 Nov 2015 14:01

Instrument :  
BNA\_F  
ClientSampleId :  
WABUT-6(0-2)

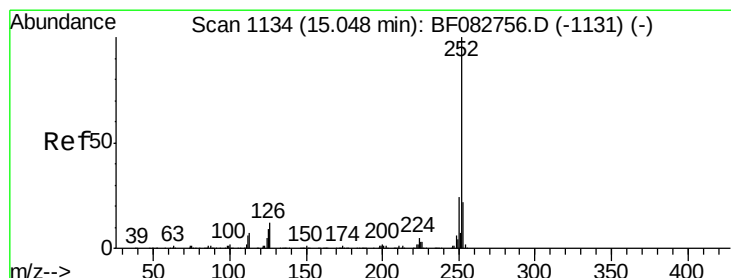
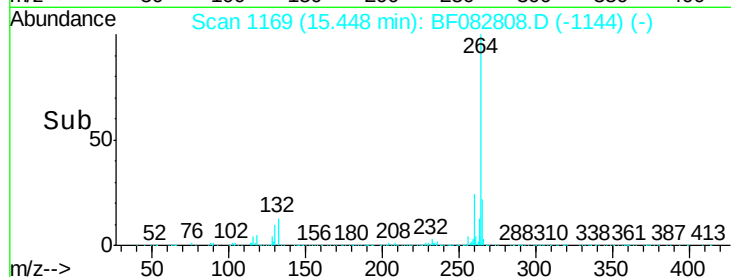
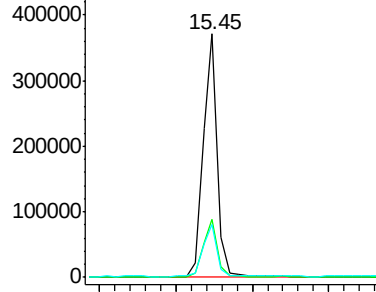
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 19.8  | 29.6  |
| 265     | 21.9  | 17.4  | 26.0  |

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11/9/2015 2:08:29 PM

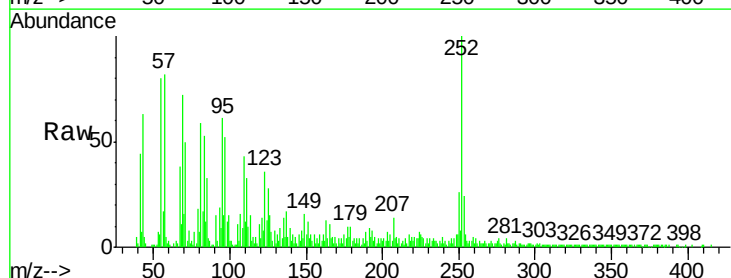


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

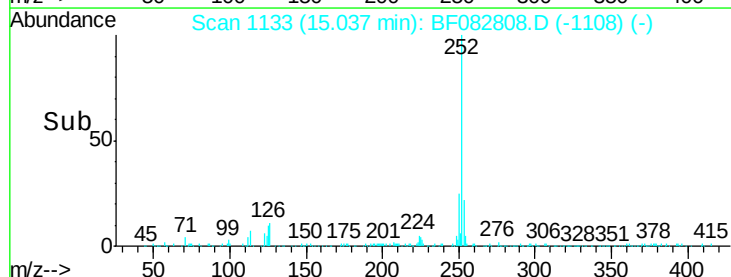
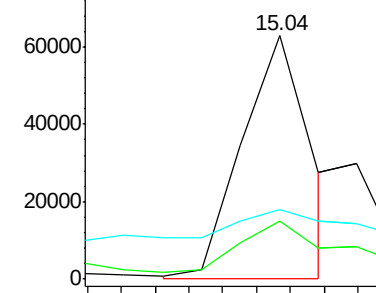


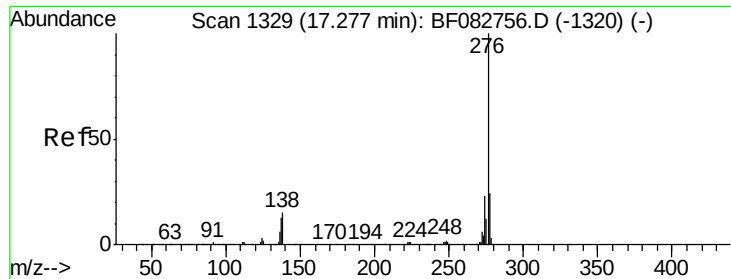
#87  
Benzo(b)fluoranthene  
Concen: 2.86 ng m  
RT: 15.04 min Scan# 1133  
Delta R.T. -0.01 min  
Lab File: BF082808.D  
Acq: 7 Nov 2015 14:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.8  | 26.8  |
| 125     | 28.5  | 5.4   | 8.2#  |



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





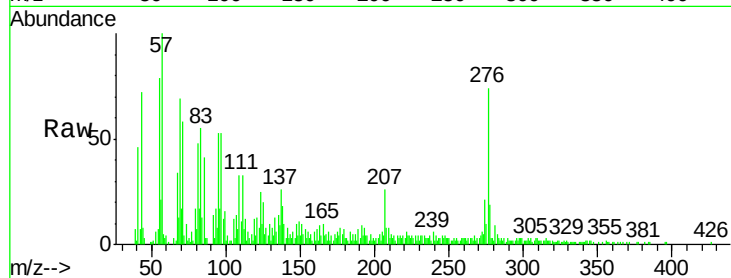
#91  
 Benzo(a,h,i)perylene  
 Concen: 2.49 ng  
 RT: 17.25 min Scan# 1327  
 Delta R.T. -0.01 min  
 Lab File: BF082808.D  
 Acq: 7 Nov 2015 14:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WABUT-6(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.1  | 19.2  | 28.8  |
| 138     | 24.3  | 13.1  | 19.7  |

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 11/9/2015 2:08:29 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

