

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM032516\  
 Data File : BM004796.D  
 Acq On : 26 Mar 2016 02:58  
 Operator : UM/SJ  
 Sample : H1909-13  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4T47

Manual Integrations  
 APPROVED

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 4/6/2016 1:29:03 PM

Quant Time: Apr 11 11:51:53 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM032516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 05 18:29:16 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.84  | 152  | 1389     | 0.40   | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.62 | 136  | 6680     | 0.40   | ng/ul  | 0.00     |
| 8) Acenaphthene-d10         | 14.47 | 164  | 4117     | 0.40   | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.21 | 188  | 9126m    | 0.40   | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.39 | 240  | 9183     | 0.40   | ng/ul  | -0.01    |
| 22) Perylene-d12            | 23.68 | 264  | 7899m    | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 2) 1,4-Dioxane-d8           | 3.32  | 96   | 4705     | 7.52   | ng/uL  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.20 | 152  | 2380     | 0.26   | ng/ul  | 0.00     |
| 16) Fluoranthene-d10        | 19.23 | 212  | 5757     | 0.27   | ng/ul  | -0.01    |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 5) Naphthalene              | 10.67 | 128  | 15579    | 0.97   | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 12.28 | 142  | 13018    | 1.13   | ng/ul  | 100      |
| 9) Acenaphthylene           | 14.18 | 152  | 9153     | 0.48   | ng/ul# | 93       |
| 10) Acenaphthene            | 14.52 | 153  | 8294     | 0.62   | ng/ul  | 92       |
| 11) Fluorene                | 15.51 | 166  | 17298    | 1.08   | ng/ul  | 94       |
| 14) Phenanthrene            | 17.24 | 178  | 298392   | 11.64  | ng/ul  | 96       |
| 15) Anthracene              | 17.33 | 178  | 6985     | 0.29   | ng/ul  | 95       |
| 17) Fluoranthene            | 19.27 | 202  | 187039m  | 6.41   | ng/ul  |          |
| 19) Pyrene                  | 19.63 | 202  | 289641   | 9.21   | ng/ul  | 96       |
| 20) Benzo(a)anthracene      | 21.37 | 228  | 50233    | 1.78   | ng/ul# | 93       |
| 21) Chrysene                | 21.42 | 228  | 93795    | 3.44   | ng/ul  | 93       |
| 23) Benzo(b)fluoranthene    | 22.98 | 252  | 91072m   | 3.42   | ng/ul  |          |
| 24) Benzo(k)fluoranthene    | 23.02 | 252  | 29890m   | 1.21   | ng/ul  |          |
| 25) Benzo(a)pyrene          | 23.58 | 252  | 63312m   | 2.60   | ng/ul  |          |
| 26) Indeno(1,2,3-cd)pyrene  | 25.99 | 276  | 31296m   | 1.39   | ng/ul  |          |
| 27) Dibenzo(a,h)anthracene  | 26.01 | 278  | 7930m    | 0.45   | ng/ul  |          |
| 28) Benzo(g,h,i)perylene    | 26.70 | 276  | 27912m   | 1.50   | ng/ul  |          |

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

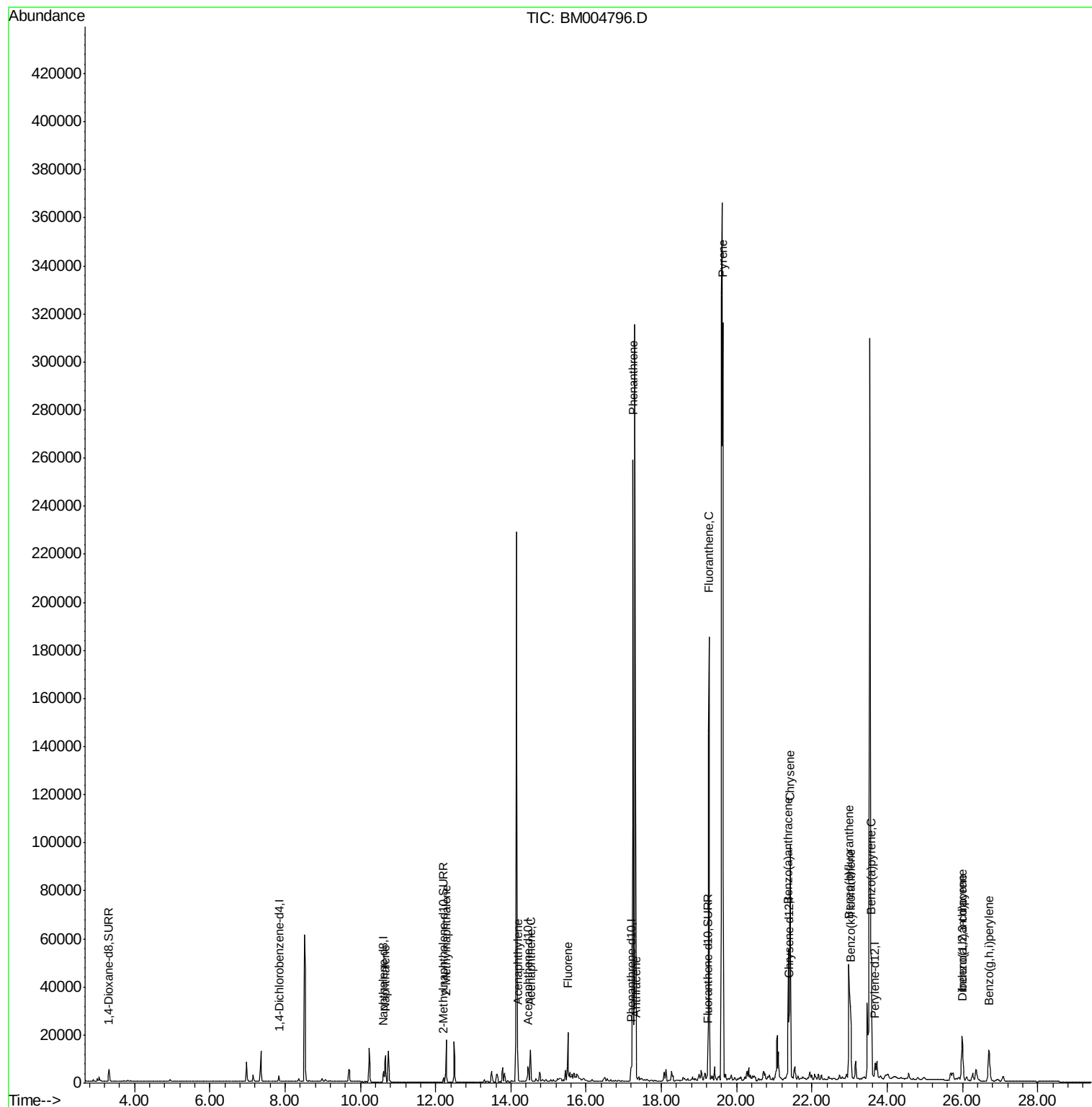
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM032516\  
Data File : BM004796.D  
Acq On : 26 Mar 2016 02:58  
Operator : UM/SJ  
Sample : H1909-13  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

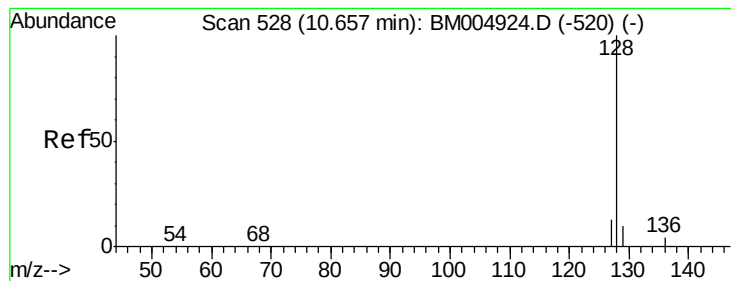
Instrument :  
BNA\_M  
ClientSampleId :  
A4T47

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Quant Time: Apr 11 11:51:53 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM032516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 05 18:29:16 2016  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.97 ng/ul

RT: 10.67 min Scan# 529

Delta R.T. -0.00 min

Lab File: BM004796.D

Acq: 26 Mar 2016 02:58

Instrument :

BNA\_M

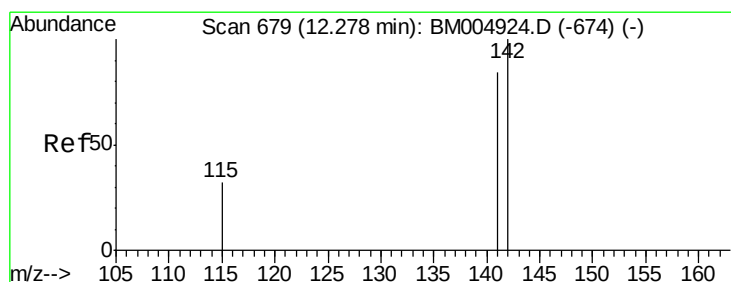
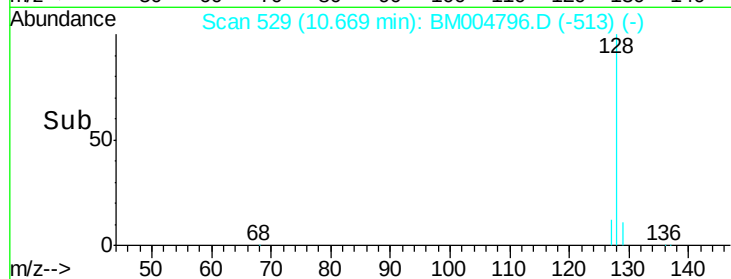
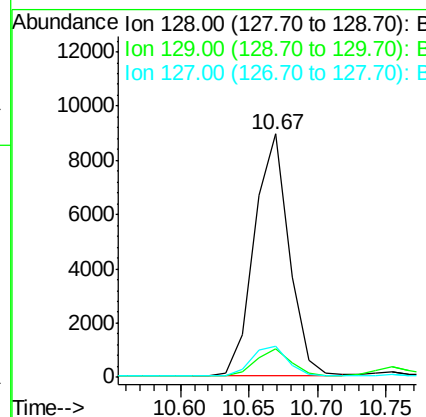
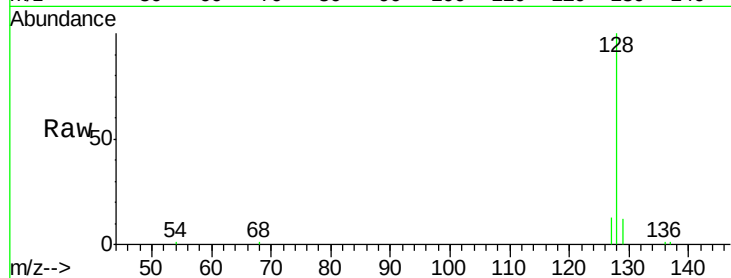
ClientSampleId :

A4T47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 15579 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.9  | 9.0   | 13.6  |
| 127       | 12.8  | 9.6   | 14.4  |

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#7

2-Methylnaphthalene

Concen: 1.13 ng/ul

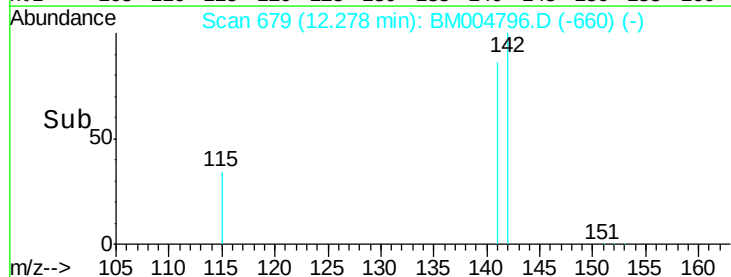
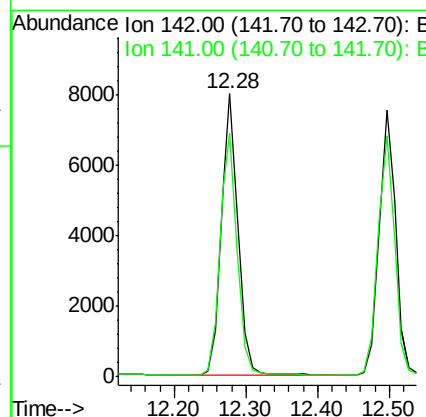
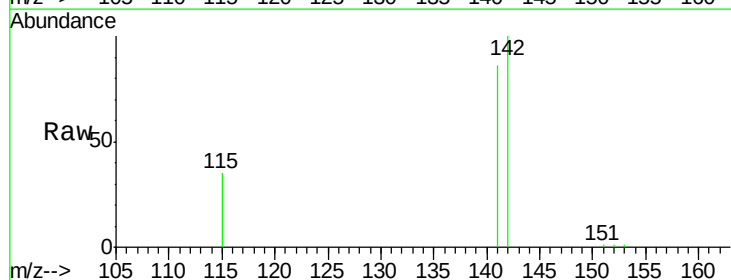
RT: 12.28 min Scan# 679

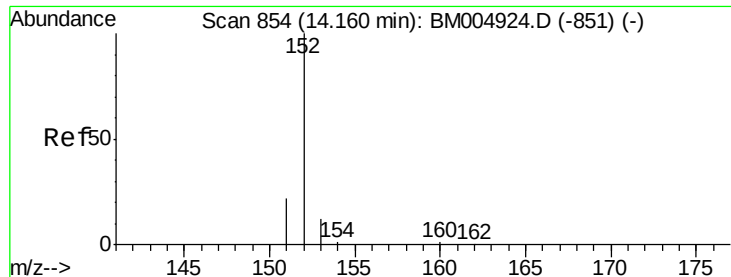
Delta R.T. -0.00 min

Lab File: BM004796.D

Acq: 26 Mar 2016 02:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 13018 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 88.2  | 70.3  | 105.5 |





#9

Acenaphthylene

Concen: 0.48 ng/ul

RT: 14.18 min Scan# 855

Delta R.T. -0.00 min

Lab File: BM004796.D

Acq: 26 Mar 2016 02:58

Instrument :

BNA\_M

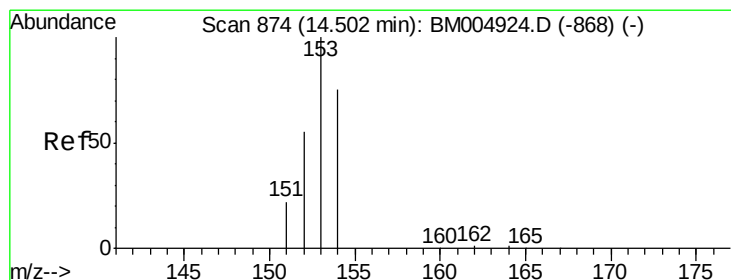
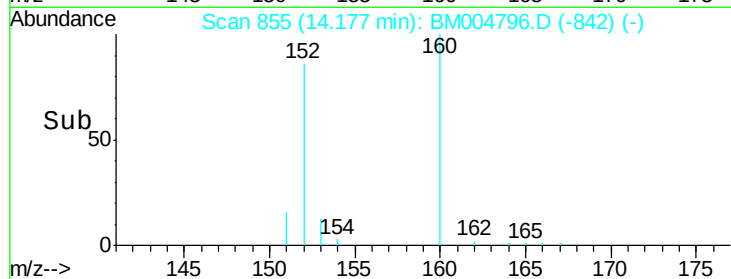
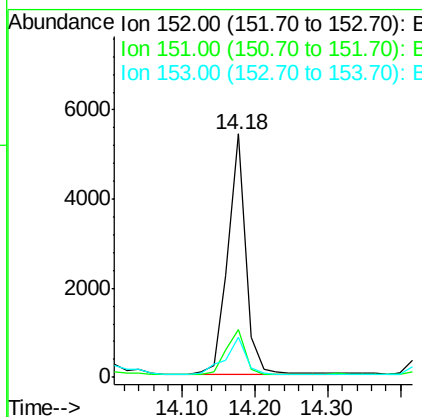
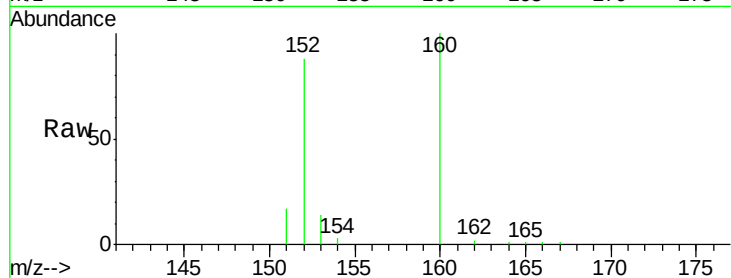
ClientSampleId :

A4T47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 9153  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.5  | 17.6  | 26.4  |
| 153       | 16.3  | 9.7   | 14.5# |

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#10

Acenaphthene

Concen: 0.62 ng/ul

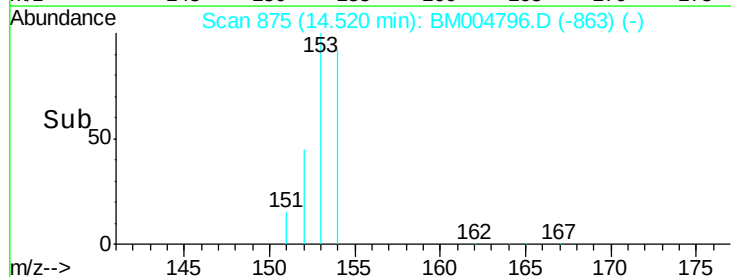
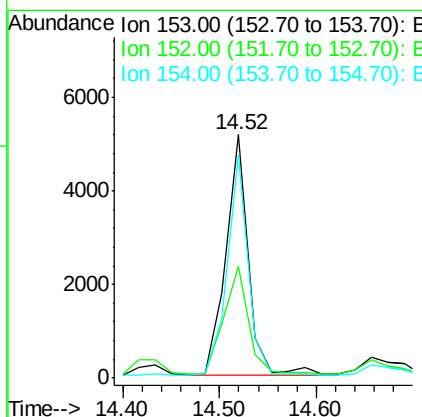
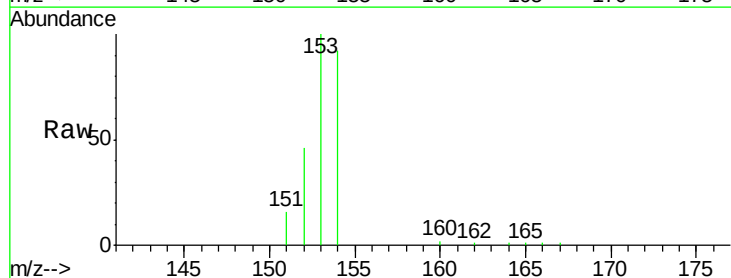
RT: 14.52 min Scan# 875

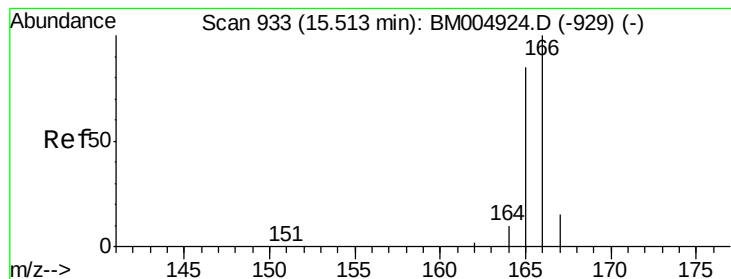
Delta R.T. -0.00 min

Lab File: BM004796.D

Acq: 26 Mar 2016 02:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 8294  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 46.1  | 33.9  | 50.9  |
| 154       | 91.6  | 80.6  | 121.0 |





#11

Fluorene

Concen: 1.08 ng/ul

RT: 15.51 min Scan# 933

Delta R.T. -0.00 min

Lab File: BM004796.D

Acq: 26 Mar 2016 02:58

Instrument :

BNA\_M

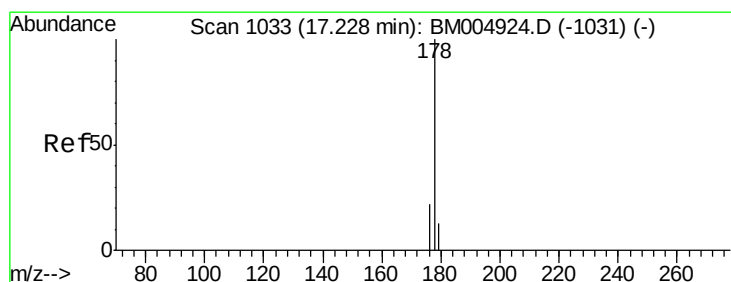
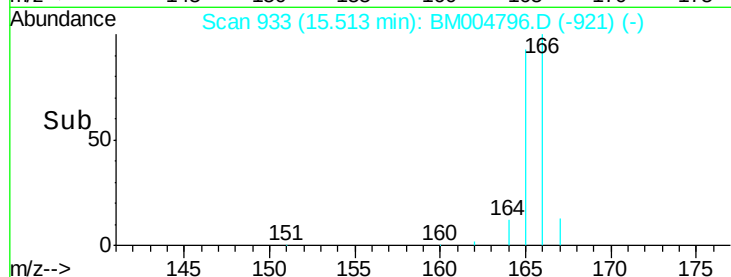
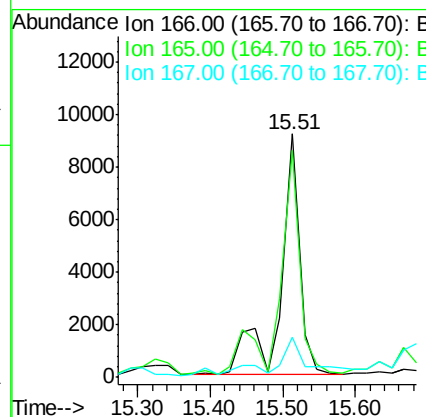
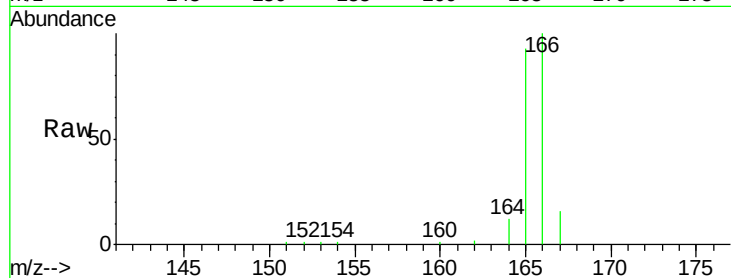
ClientSampleId :

A4T47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 17298 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 93.3  | 69.6  | 104.4 |
| 167       | 16.2  | 11.9  | 17.9  |

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#14

Phenanthrene

Concen: 11.64 ng/ul

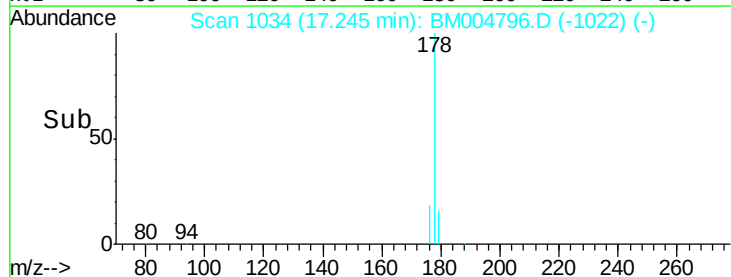
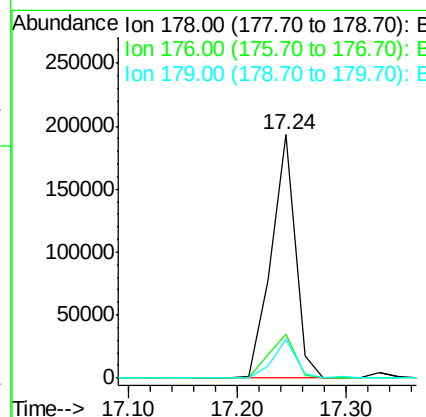
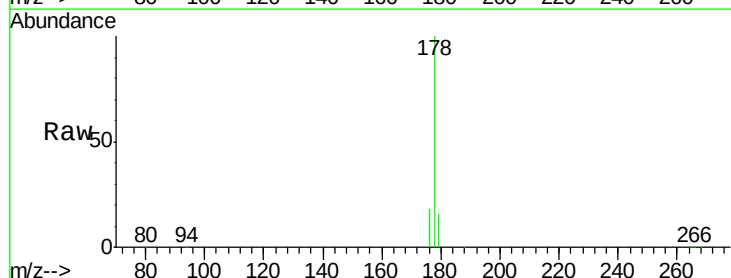
RT: 17.24 min Scan# 1034

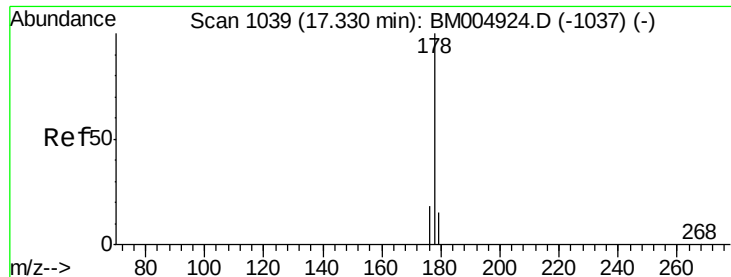
Delta R.T. -0.00 min

Lab File: BM004796.D

Acq: 26 Mar 2016 02:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 298392 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 17.8  | 13.0  | 19.4   |
| 179       | 16.1  | 14.2  | 21.2   |





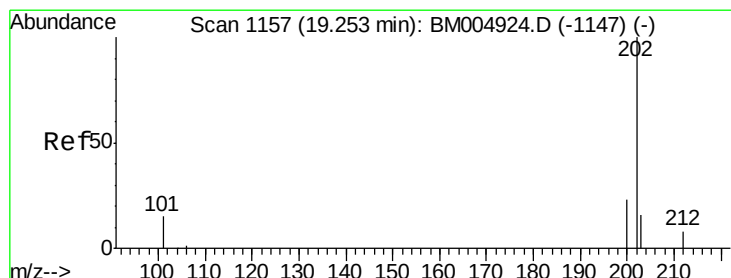
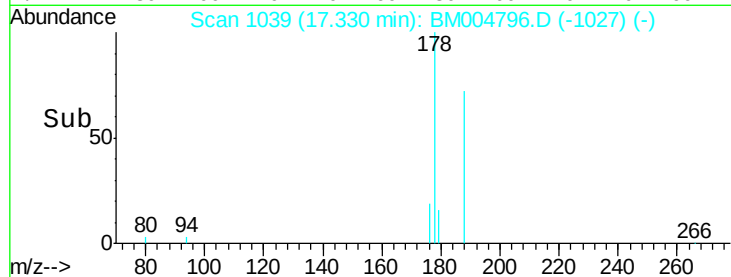
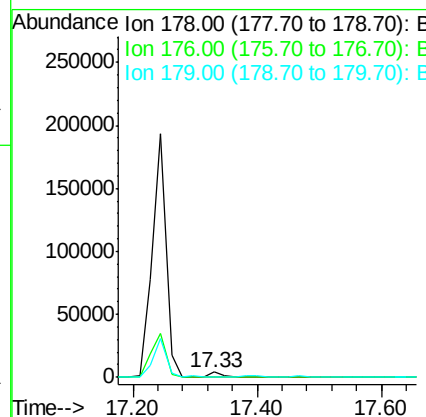
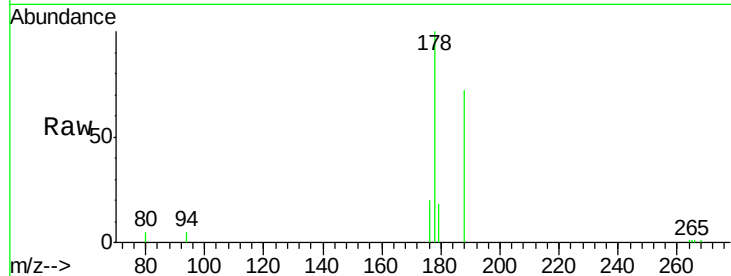
#15  
 Anthracene  
 Concen: 0.29 ng/ul  
 RT: 17.33 min Scan# 1039  
 Delta R.T. -0.00 min  
 Lab File: BM004796.D  
 Acq: 26 Mar 2016 02:58

Instrument :  
 BNA\_M  
 ClientSampled :  
 A4T47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.1  | 14.0  | 21.0  |
| 179     | 17.8  | 12.9  | 19.3  |

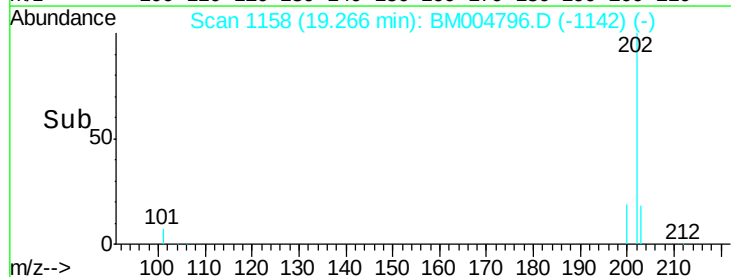
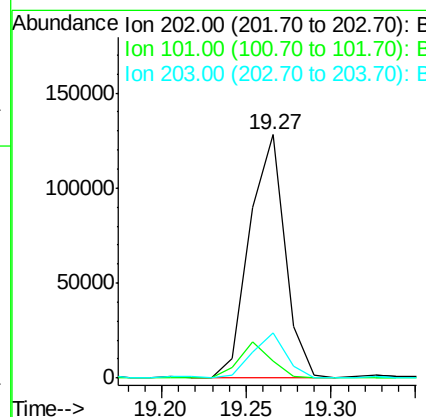
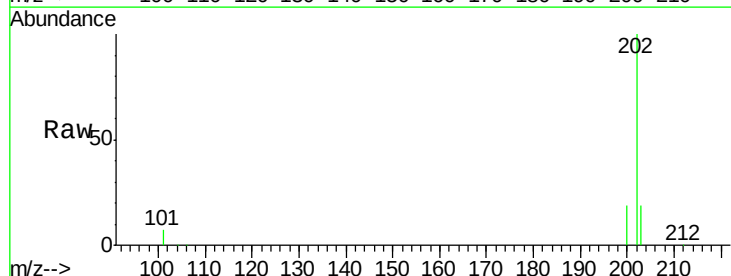
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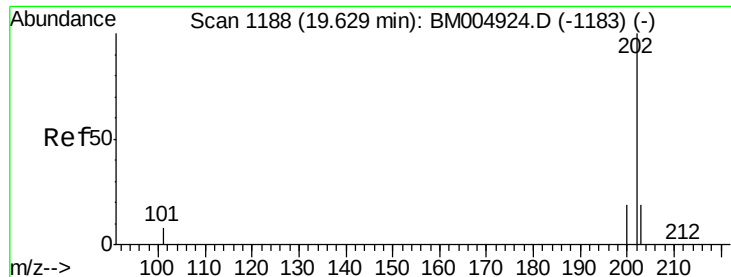
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#17  
 Fluoranthene  
 Concen: 6.41 ng/ul m  
 RT: 19.27 min Scan# 1158  
 Delta R.T. -0.00 min  
 Lab File: BM004796.D  
 Acq: 26 Mar 2016 02:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.1   | 0.0   | 29.6  |
| 203     | 18.6  | 0.0   | 36.3  |





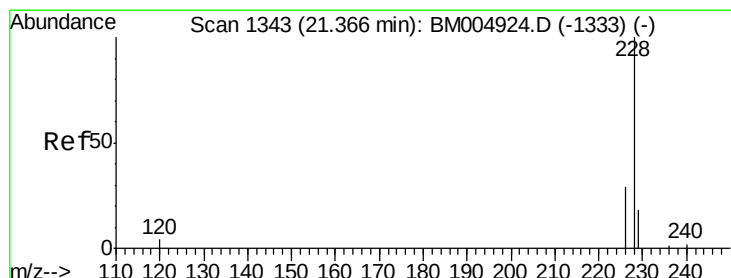
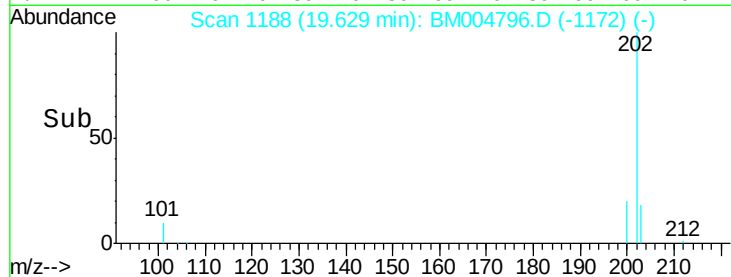
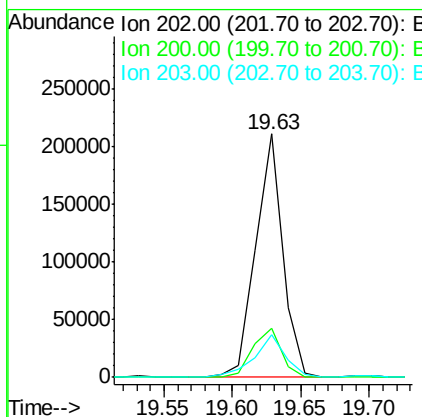
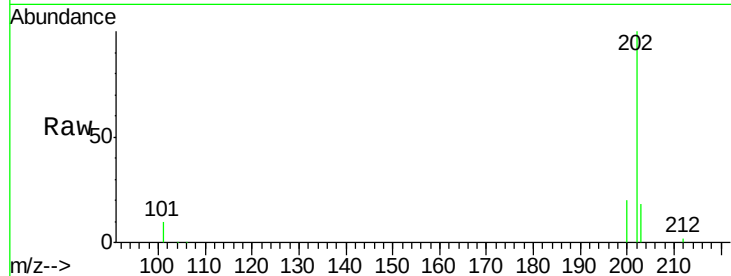
#19  
 Pyrene  
 Concen: 9.21 ng/ul  
 RT: 19.63 min Scan# 1188  
 Delta R.T. -0.00 min  
 Lab File: BM004796.D  
 Acq: 26 Mar 2016 02:58

Instrument :  
 BNA\_M  
 ClientSampleId :  
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| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 20.3  | 17.8       | 26.8       |
| 203     | 17.6  | 12.8       | 19.2       |

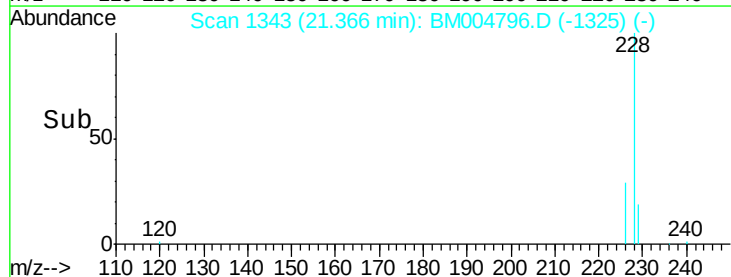
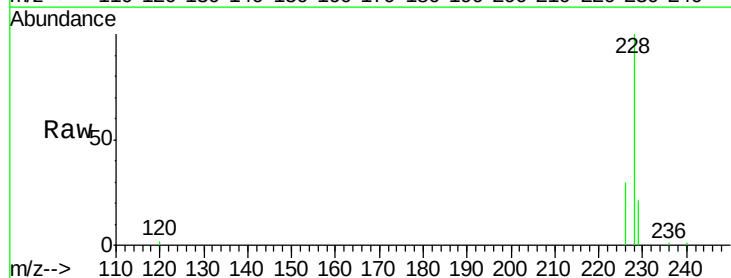
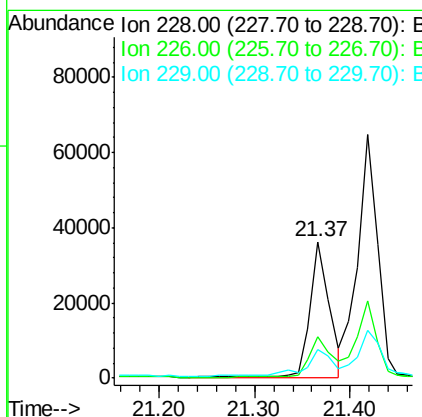
Manual Integrations  
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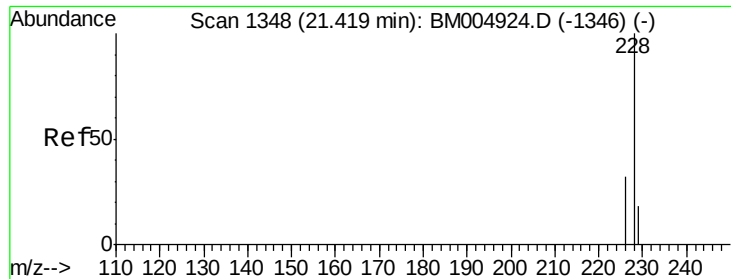
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#20  
 Benzo(a)anthracene  
 Concen: 1.78 ng/ul  
 RT: 21.37 min Scan# 1343  
 Delta R.T. -0.01 min  
 Lab File: BM004796.D  
 Acq: 26 Mar 2016 02:58

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 226     | 30.2  | 18.8       | 28.2#      |
| 229     | 21.2  | 17.1       | 25.7       |





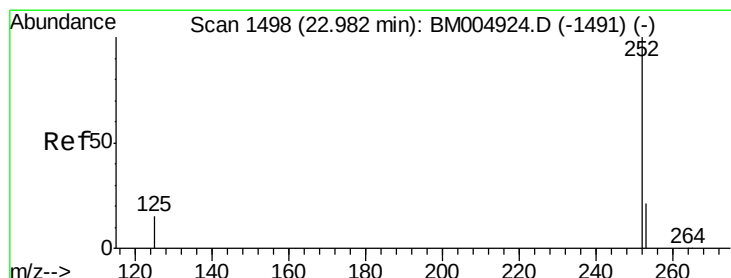
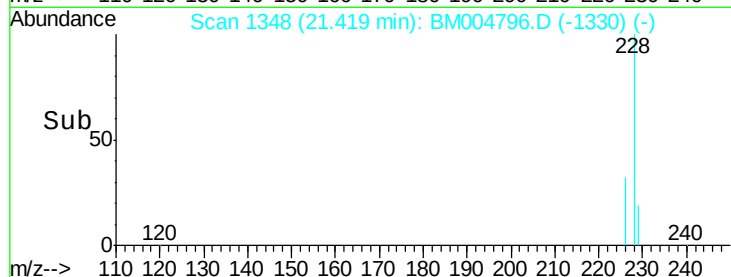
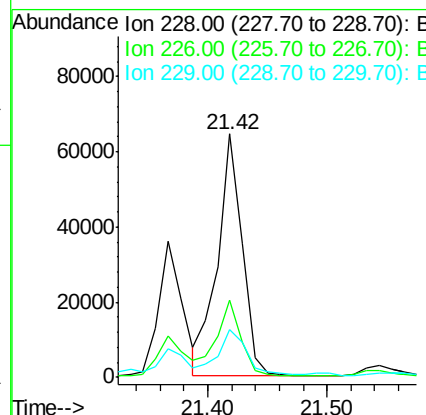
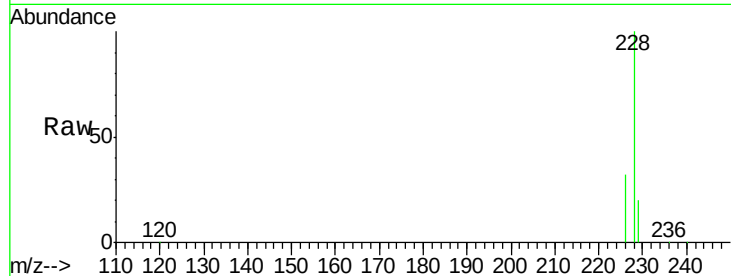
#21  
Chrysene  
Concen: 3.44 ng/ul  
RT: 21.42 min Scan# 1348  
Delta R.T. -0.01 min  
Lab File: BM004796.D  
Acq: 26 Mar 2016 02:58

Instrument :  
BNA\_M  
ClientSampleId :  
A4T47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.8  | 21.2  | 31.8  |
| 229     | 19.8  | 17.0  | 25.6  |

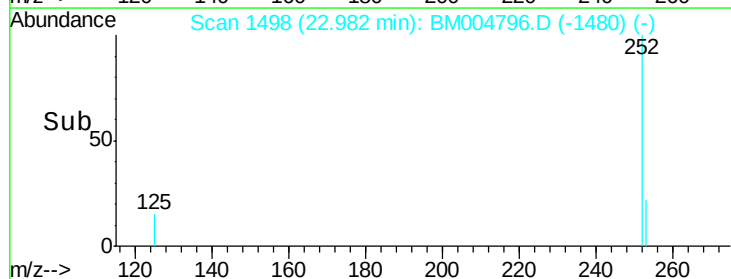
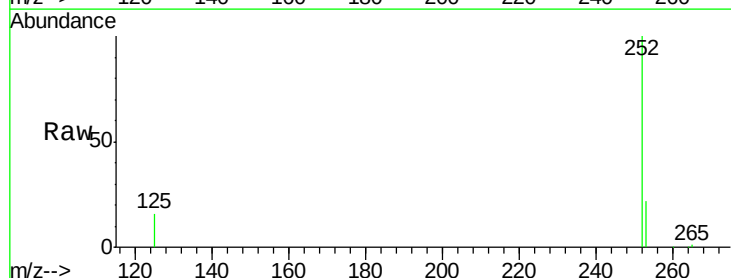
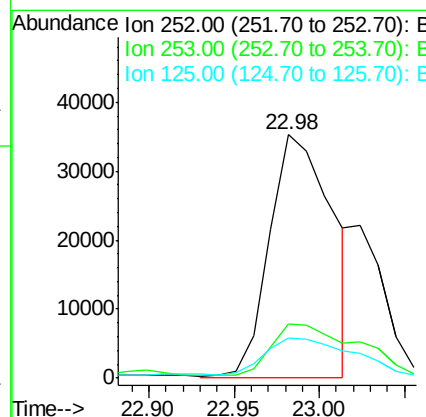
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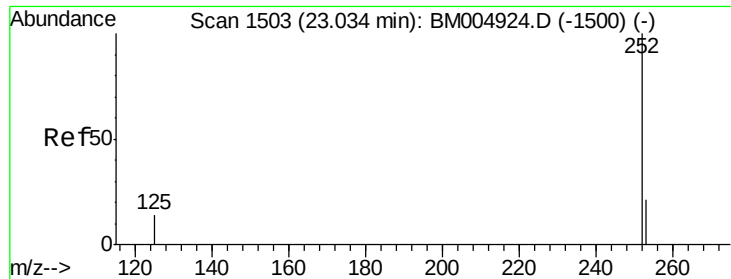


#23  
Benzo(b)fluoranthene  
Concen: 3.42 ng/ul m  
RT: 22.98 min Scan# 1498  
Delta R.T. -0.01 min  
Lab File: BM004796.D  
Acq: 26 Mar 2016 02:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 0.0   | 45.4  |
| 125     | 16.3  | 0.0   | 28.8  |







#24

Benzo(k)fluoranthene

Concen: 1.21 ng/ul m

RT: 23.02 min Scan# 1502

Delta R.T. -0.01 min

Lab File: BM004796.D

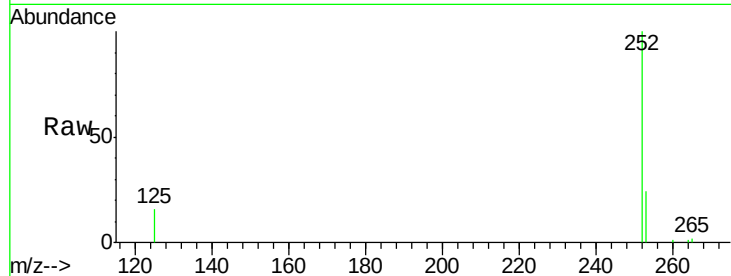
Acq: 26 Mar 2016 02:58

Instrument :

BNA\_M

ClientSampleId :

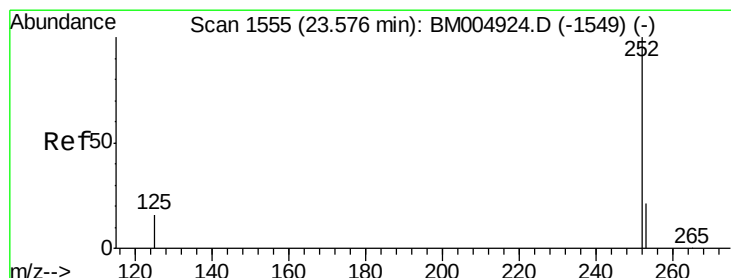
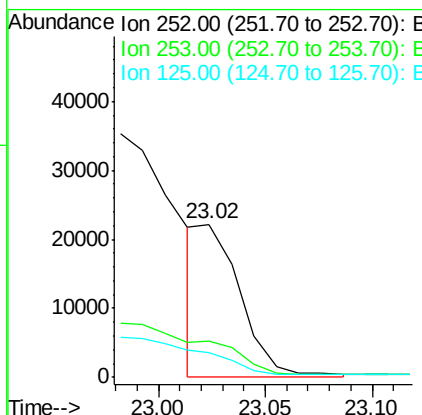
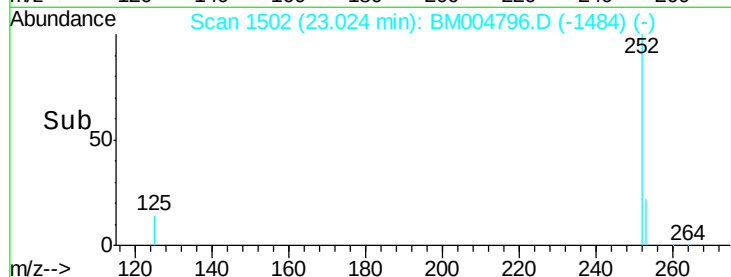
A4T47



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 29890 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.5  | 19.8  | 29.8  |
| 125       | 16.1  | 10.4  | 15.6# |

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#25

Benzo(a)pyrene

Concen: 2.60 ng/ul m

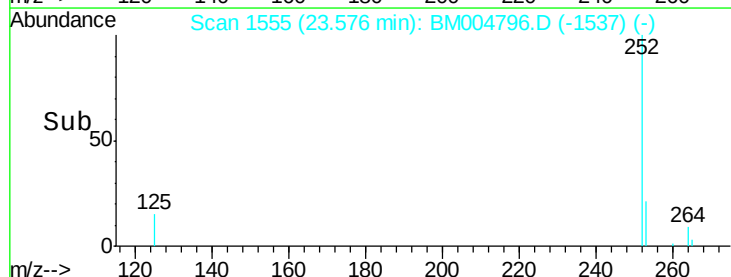
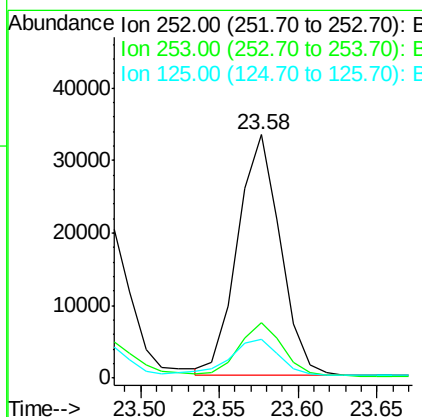
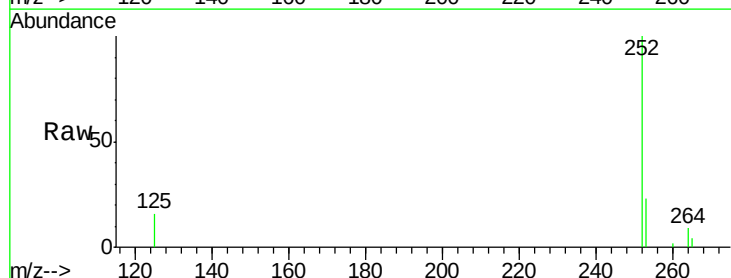
RT: 23.58 min Scan# 1555

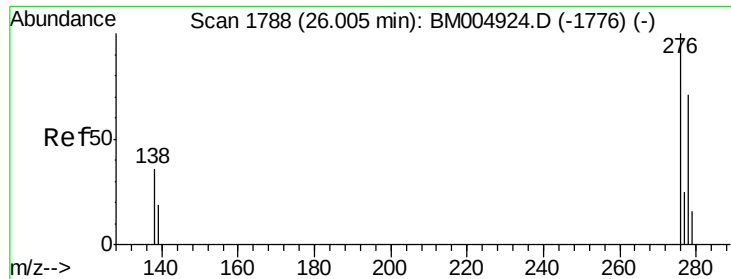
Delta R.T. -0.01 min

Lab File: BM004796.D

Acq: 26 Mar 2016 02:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 63312 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.7  | 19.4  | 29.2  |
| 125       | 16.1  | 12.7  | 19.1  |





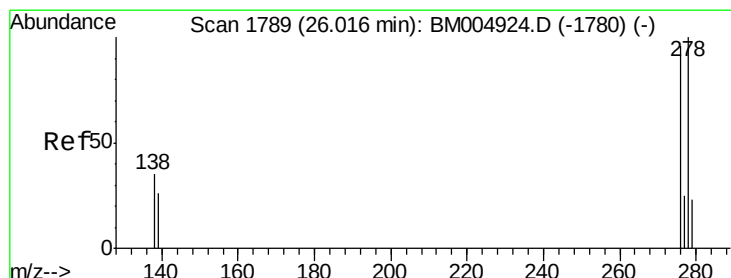
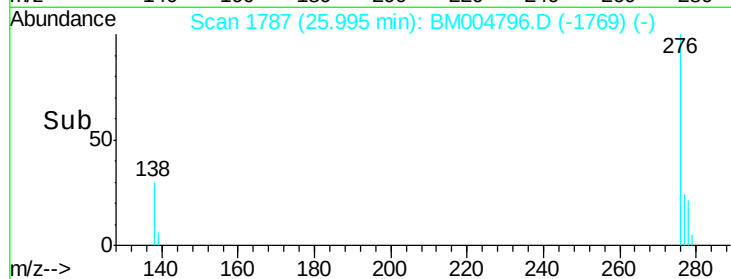
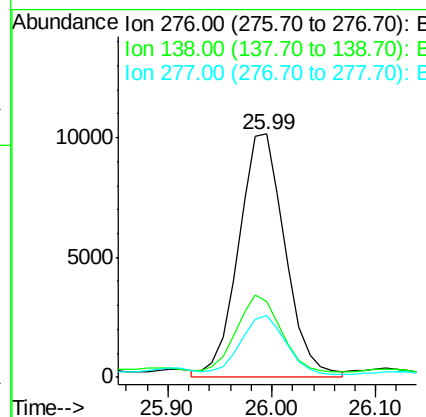
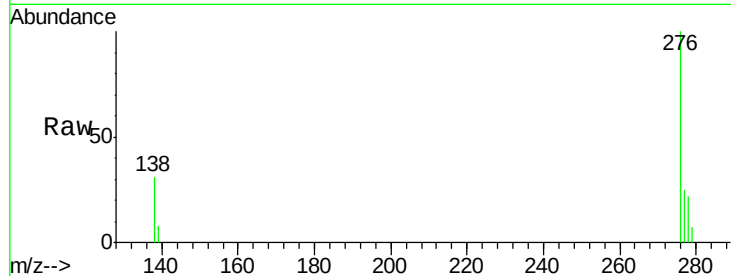
#26  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.39 ng/ul m  
 RT: 25.99 min Scan# 1787  
 Delta R.T. -0.01 min  
 Lab File: BM004796.D  
 Acq: 26 Mar 2016 02:58

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4T47

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 3.2   | 16.3       | 24.5#      |
| 277     | 4.3   | 19.8       | 29.8#      |

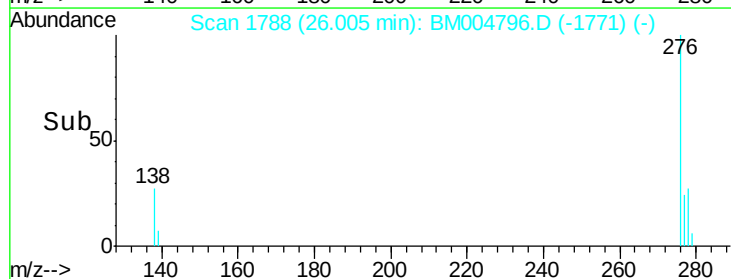
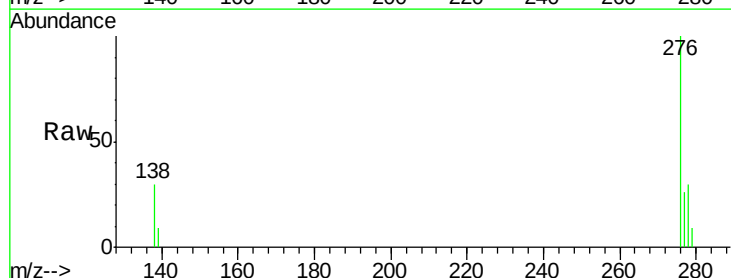
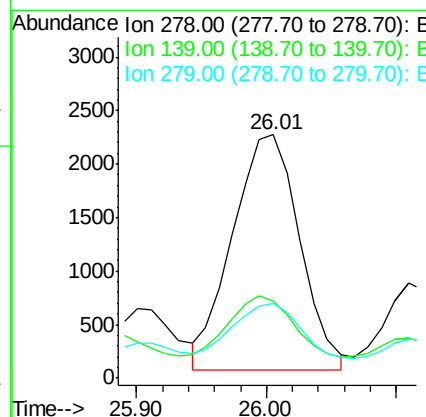
Manual Integrations  
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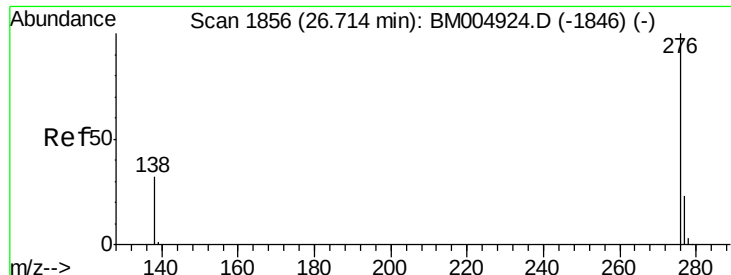
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#27  
 Dibenzo(a,h)anthracene  
 Concen: 0.45 ng/ul m  
 RT: 26.01 min Scan# 1788  
 Delta R.T. -0.02 min  
 Lab File: BM004796.D  
 Acq: 26 Mar 2016 02:58

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 278     | 100   |            |            |
| 139     | 32.0  | 16.4       | 24.6#      |
| 279     | 30.5  | 20.2       | 30.2#      |





#28

Benzo(g,h,i)perylene

Concen: 1.50 ng/ul m

RT: 26.70 min Scan# 1855

Delta R.T. -0.02 min

Lab File: BM004796.D

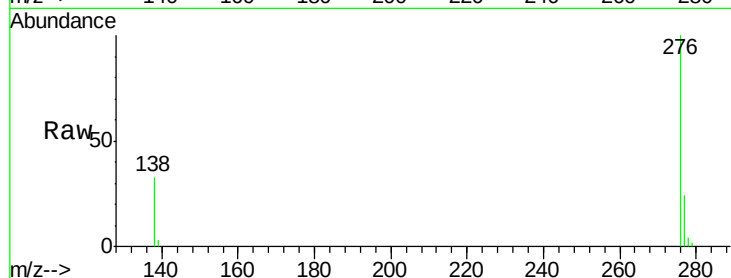
Acq: 26 Mar 2016 02:58

Instrument :

BNA\_M

ClientSampleId :

A4T47



Tgt Ion: 276 Resp: 27912

Ion Ratio Lower Upper

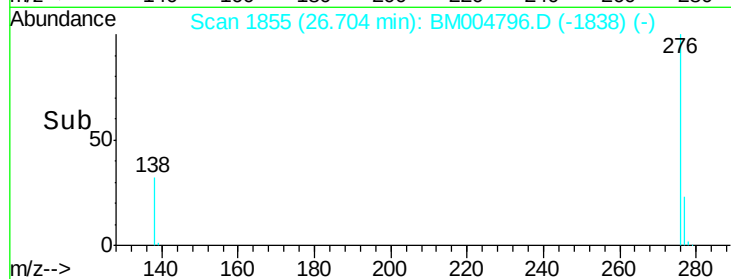
276 100

277 24.3 18.9 28.3

138 33.3 22.5 33.7

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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

