

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN061119\  
 Data File : BN006249.D  
 Acq On : 11 Jun 2019 16:54  
 Operator : JU/SJ  
 Sample : K3083-07  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A51G0

Manual Integrations  
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 6/12/2019 8:18:49 AM

Quant Time: Jun 17 05:29:31 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN053019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Jun 09 05:10:30 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.64  | 152  | 5485     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.42 | 136  | 21899    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.30 | 164  | 11586    | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.05 | 188  | 21913m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.27 | 240  | 13530m   | 0.40   | ng/ul  | 0.01     |
| 20) Perylene-d12            | 23.51 | 264  | 12383m   | 0.40   | ng/ul  | 0.02     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.02 | 152  | 7816     | 0.23   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.09 | 212  | 14506m   | 0.25   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 7) Acenaphthylene           | 14.01 | 152  | 5365     | 0.083  | ng/ul  | 96       |
| 8) Acenaphthene             | 14.36 | 153  | 3501     | 0.078  | ng/ul  | 98       |
| 9) Fluorene                 | 15.35 | 166  | 4116     | 0.079  | ng/ul# | 98       |
| 12) Phenanthrene            | 17.09 | 178  | 154014m  | 2.190  | ng/ul  |          |
| 13) Anthracene              | 17.18 | 178  | 16226m   | 0.242  | ng/ul  |          |
| 15) Fluoranthene            | 19.12 | 202  | 503031m  | 6.476  | ng/ul  |          |
| 17) Pyrene                  | 19.49 | 202  | 393108   | 5.516  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.26 | 228  | 141865   | 2.371  | ng/ul  | 100      |
| 19) Chrysene                | 21.31 | 228  | 208514   | 3.712  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.85 | 252  | 277423m  | 5.373  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.88 | 252  | 106989m  | 2.127  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.42 | 252  | 171710m  | 3.571  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.75 | 276  | 142753m  | 2.743  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 25.75 | 278  | 25083    | 0.603  | ng/ul  | 98       |
| 26) Benzo(g,h,i)perylene    | 26.44 | 276  | 138272m  | 3.172  | ng/ul  |          |

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

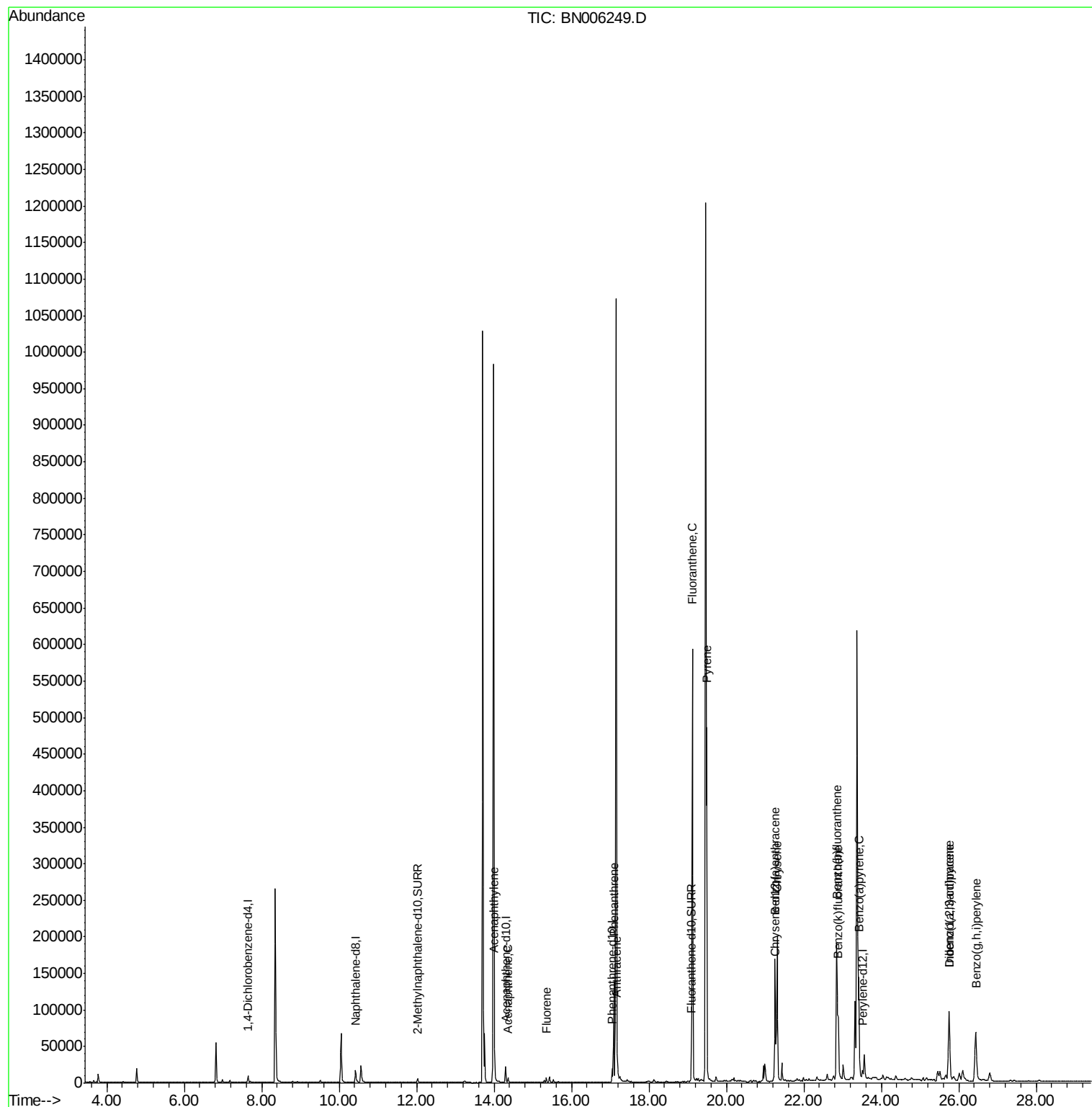
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN061119\  
Data File : BN006249.D  
Acq On : 11 Jun 2019 16:54  
Operator : JU/SJ  
Sample : K3083-07  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

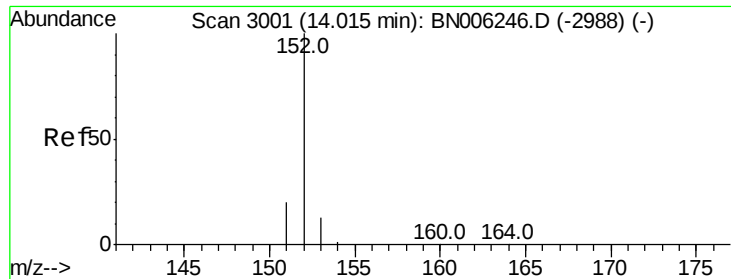
Instrument :  
BNA\_N  
ClientSampleId :  
A51G0

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Quant Time: Jun 17 05:29:31 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 05:10:30 2019  
Response via : Initial Calibration





#7

Acenaphthylene

Concen: 0.083 ng/ul

RT: 14.01 min Scan# 3001

Delta R.T. -0.00 min

Lab File: BN006249.D

Acq: 11 Jun 2019 16:54

Instrument :

BNA\_N

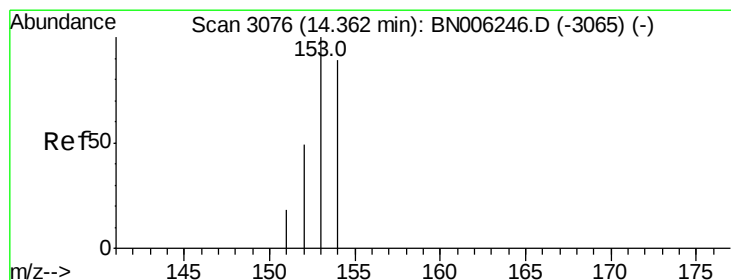
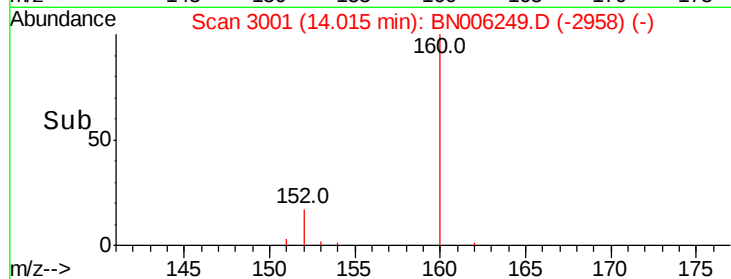
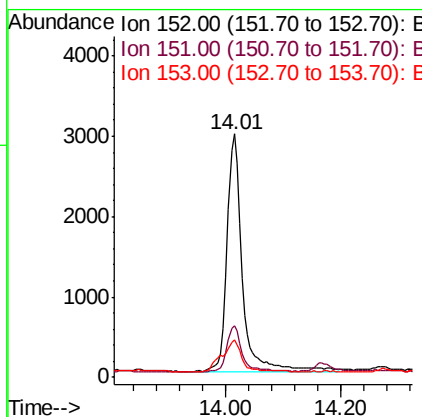
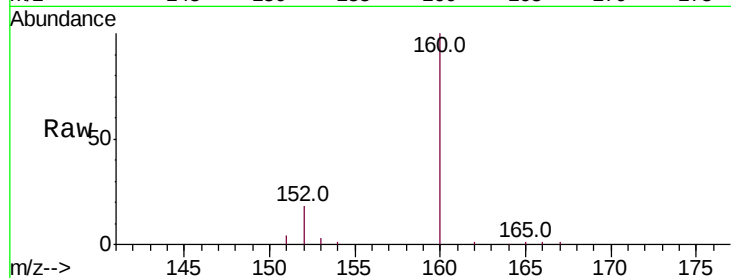
ClientSampleId :

A51G0

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 152   | Resp: | 5365 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 21.1  | 15.8  | 23.8 |
| 153       | 15.6  | 10.8  | 16.2 |

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#8

Acenaphthene

Concen: 0.078 ng/ul

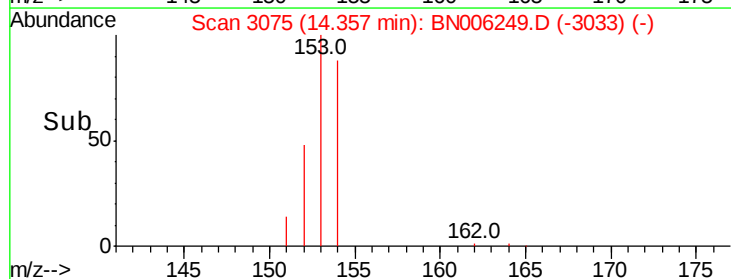
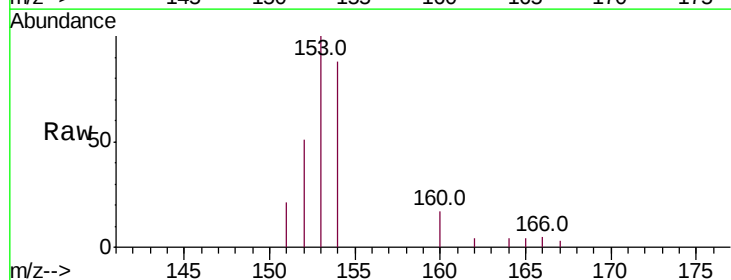
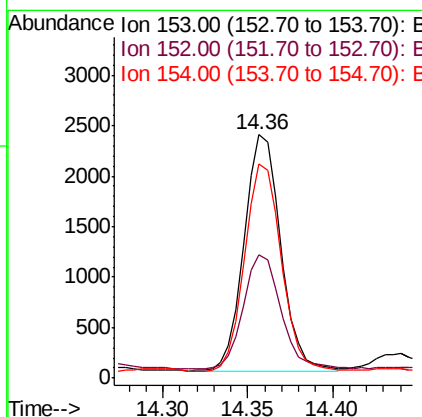
RT: 14.36 min Scan# 3075

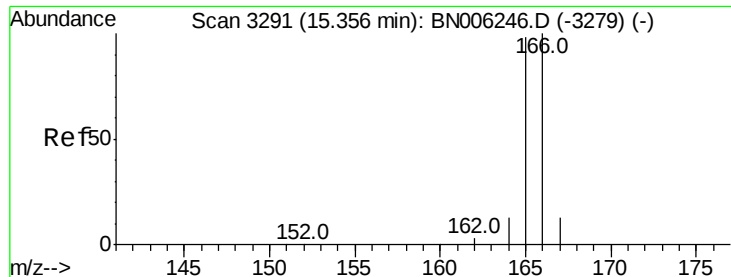
Delta R.T. -0.00 min

Lab File: BN006249.D

Acq: 11 Jun 2019 16:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 3501  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 50.9  | 39.1  | 58.7  |
| 154       | 87.9  | 71.1  | 106.7 |





#9

Fluorene

Concen: 0.079 ng/ul

RT: 15.35 min Scan# 3290

Delta R.T. -0.00 min

Lab File: BN006249.D

Acq: 11 Jun 2019 16:54

Instrument :

BNA\_N

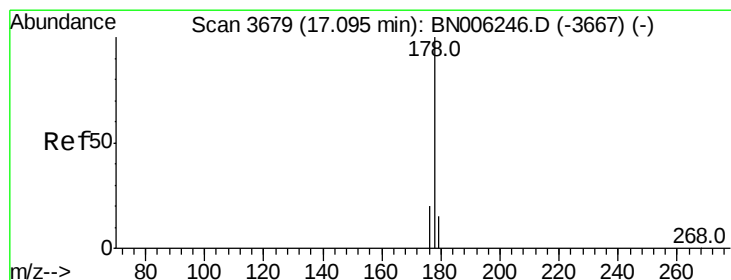
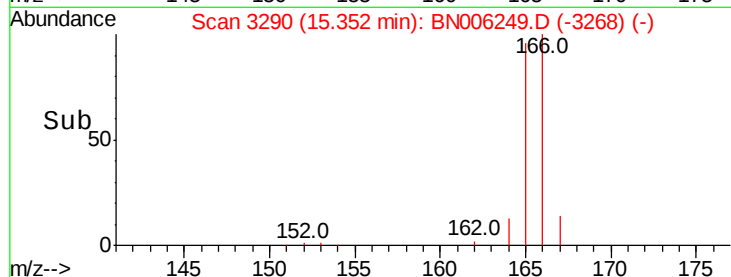
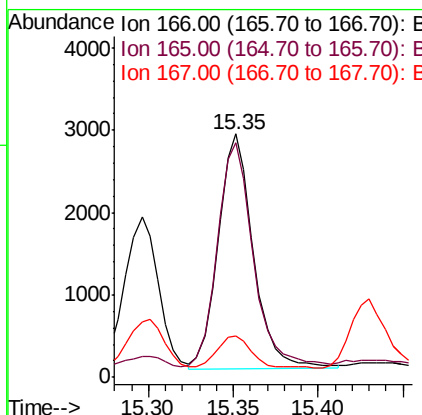
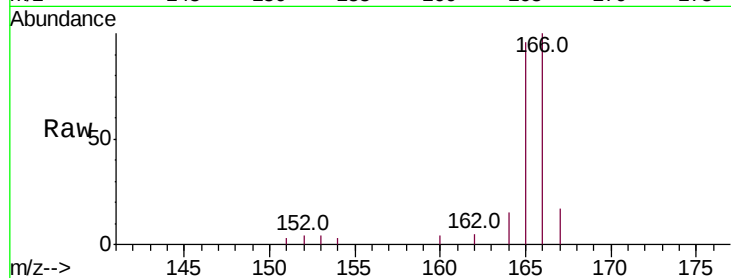
ClientSampleId :

A51G0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 4116  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 96.4  | 76.4  | 114.6 |
| 167       | 16.7  | 11.0  | 16.6# |

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#12

Phenanthrene

Concen: 2.190 ng/ul m

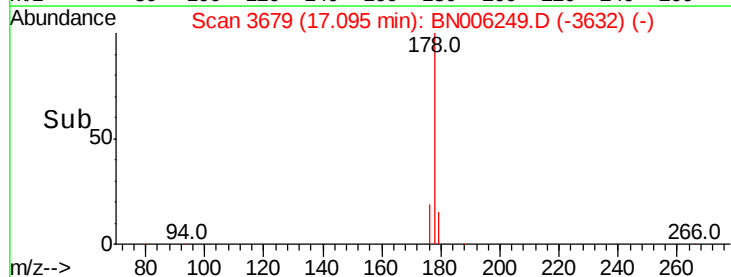
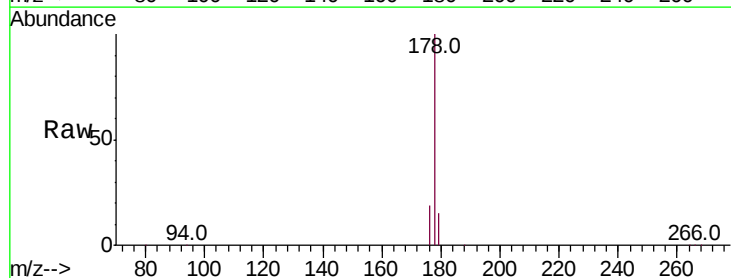
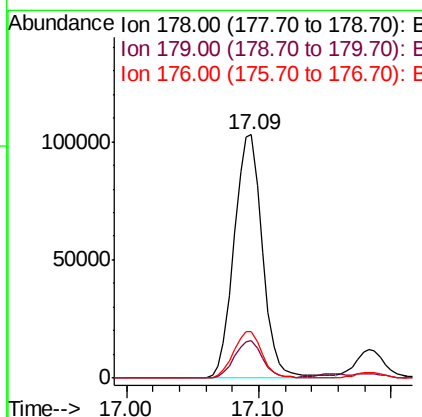
RT: 17.09 min Scan# 3679

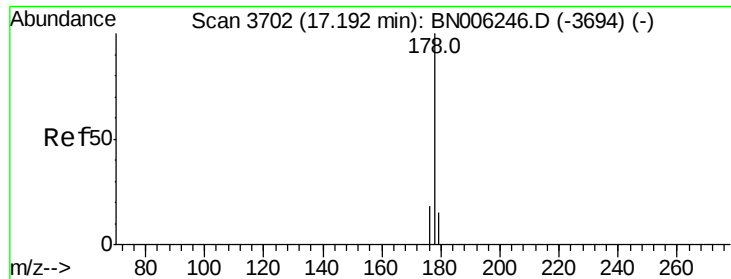
Delta R.T. -0.00 min

Lab File: BN006249.D

Acq: 11 Jun 2019 16:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 154014 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.4  | 12.3  | 18.5   |
| 176       | 19.1  | 15.3  | 22.9   |





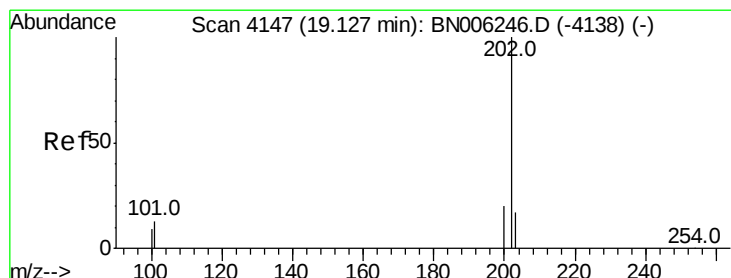
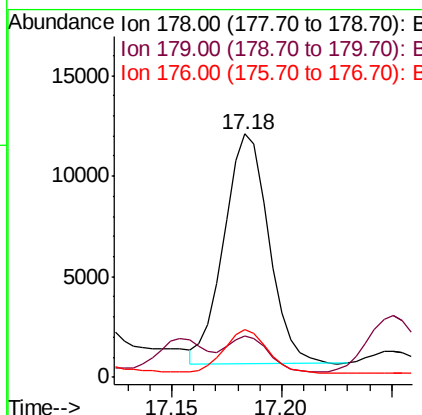
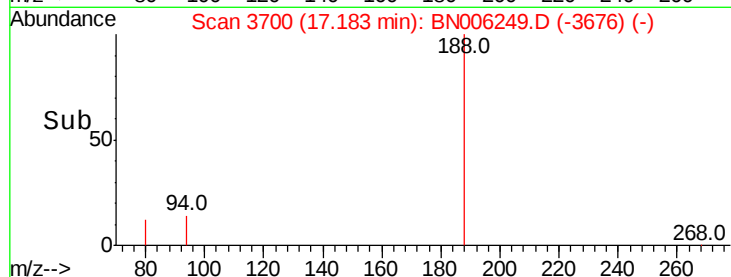
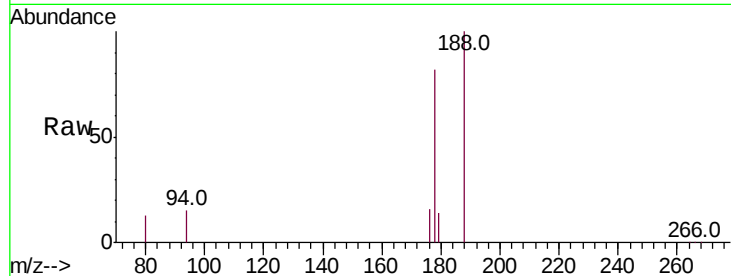
#13  
 Anthracene  
 Concen: 0.242 ng/ul m  
 RT: 17.18 min Scan# 3700  
 Delta R.T. -0.00 min  
 Lab File: BN006249.D  
 Acq: 11 Jun 2019 16:54

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A51G0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.8  | 12.2  | 18.4  |
| 176     | 19.4  | 15.1  | 22.7  |

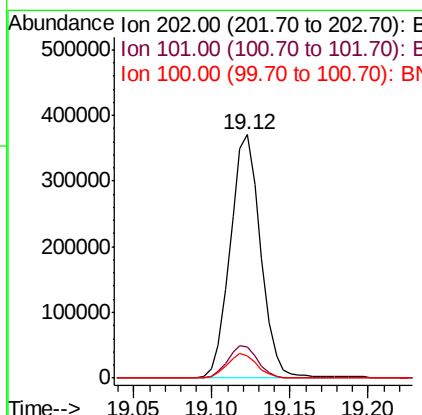
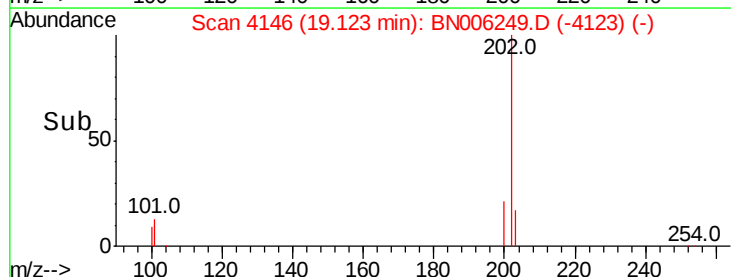
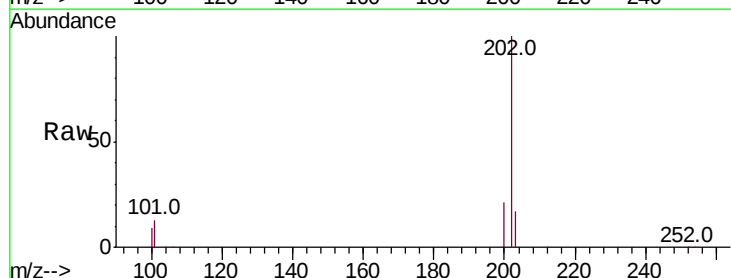
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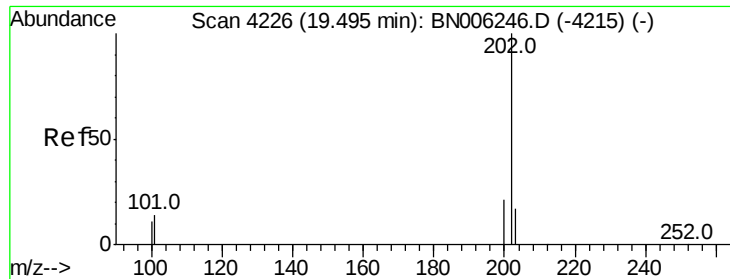
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#15  
 Fluoranthene  
 Concen: 6.476 ng/ul m  
 RT: 19.12 min Scan# 4146  
 Delta R.T. 0.00 min  
 Lab File: BN006249.D  
 Acq: 11 Jun 2019 16:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.7  | 0.0   | 32.1  |
| 100     | 9.2   | 0.0   | 28.7  |





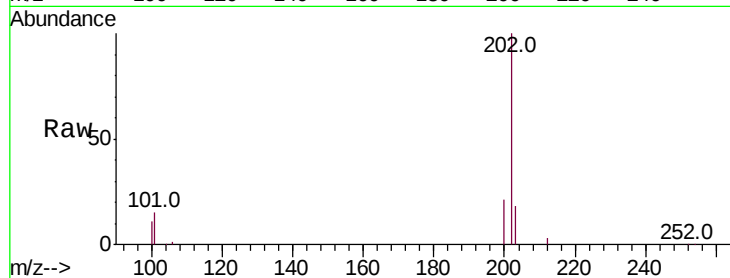
#17  
Pvrene  
Concen: 5.516 ng/ul  
RT: 19.49 min Scan# 4225  
Delta R.T. 0.00 min  
Lab File: BN006249.D  
Acq: 11 Jun 2019 16:54

Instrument :  
BNA\_N  
ClientSampleId :  
A51G0

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 14.6  | 12.2       | 18.2       |
| 100     | 11.5  | 9.8        | 14.6       |

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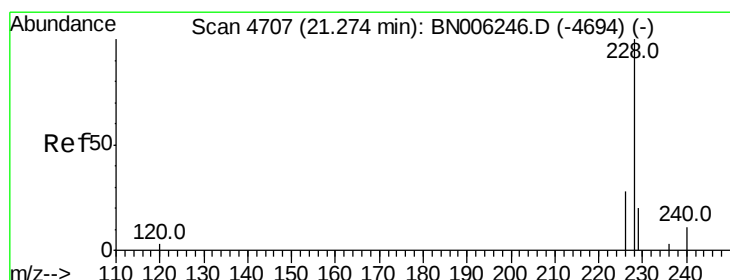
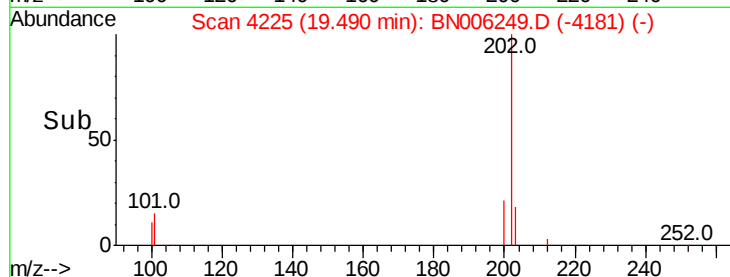
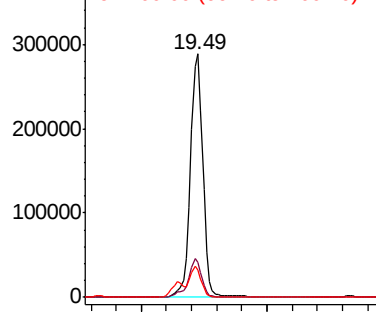


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#18  
Benzo(a)anthracene  
Concen: 2.371 ng/ul  
RT: 21.26 min Scan# 4701  
Delta R.T. 0.01 min  
Lab File: BN006249.D  
Acq: 11 Jun 2019 16:54

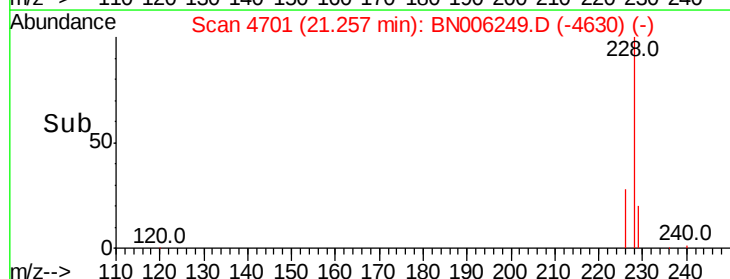
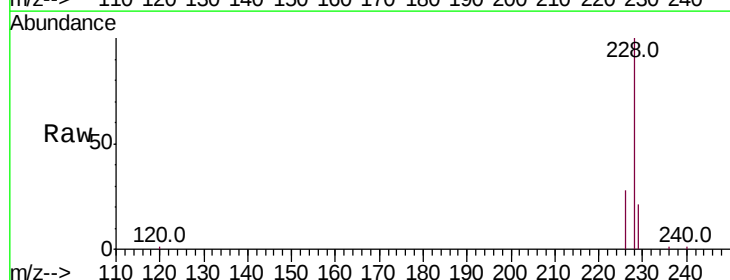
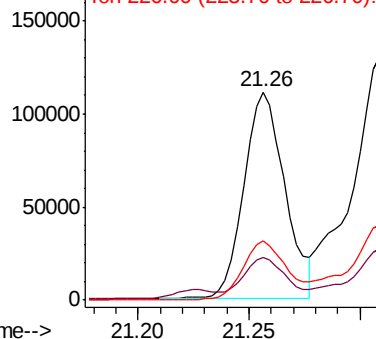
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 20.7  | 16.5       | 24.7       |
| 226     | 28.4  | 22.8       | 34.2       |

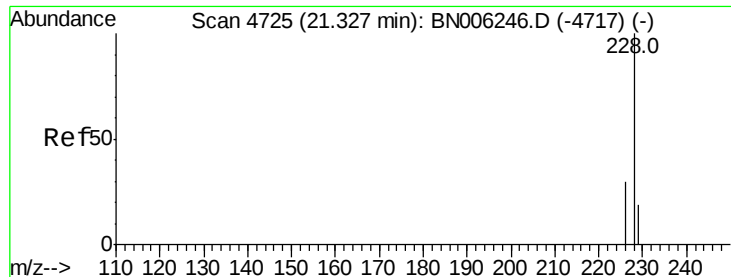
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 3.712 ng/ul

RT: 21.31 min Scan# 4719

Delta R.T. 0.01 min

Lab File: BN006249.D

Acq: 11 Jun 2019 16:54

Instrument :

BNA\_N

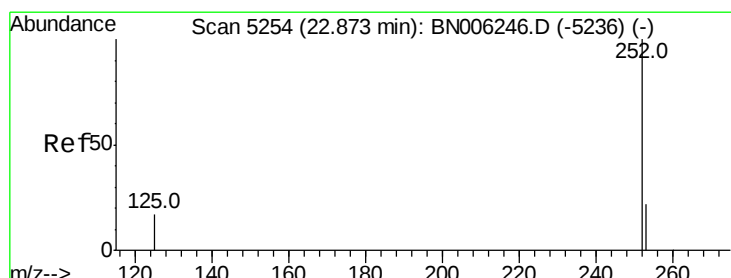
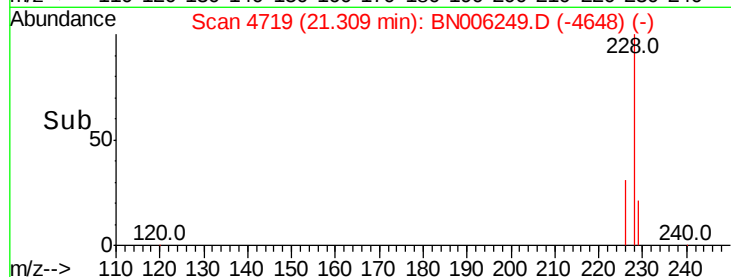
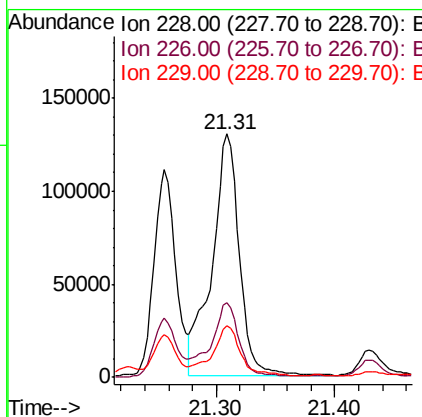
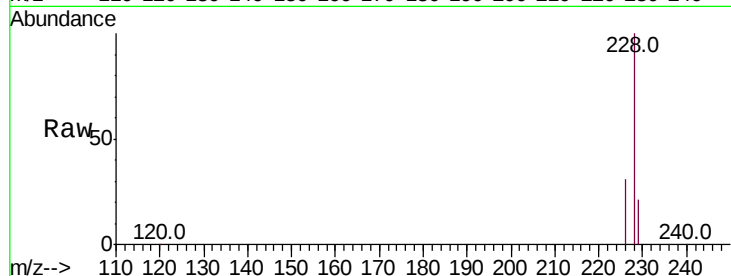
ClientSampleId :

A51G0

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 208514 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.8  | 25.0  | 37.6   |
| 229       | 21.2  | 16.3  | 24.5   |

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#21

Benzo(b)fluoranthene

Concen: 5.373 ng/ul m

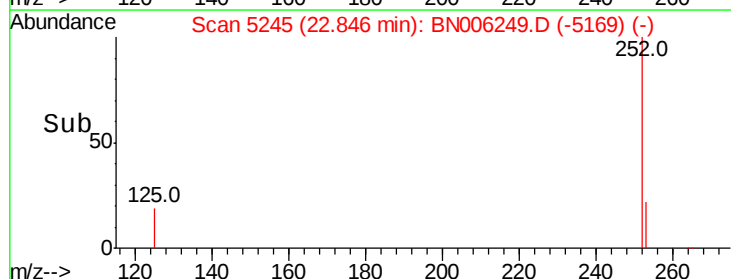
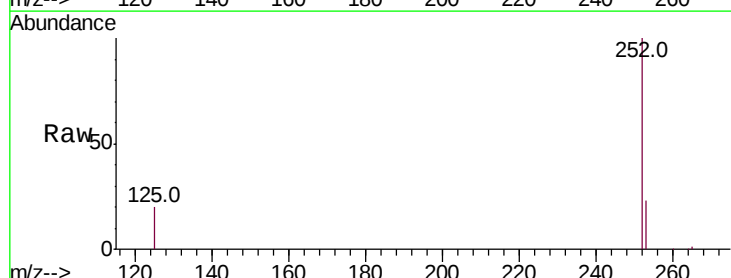
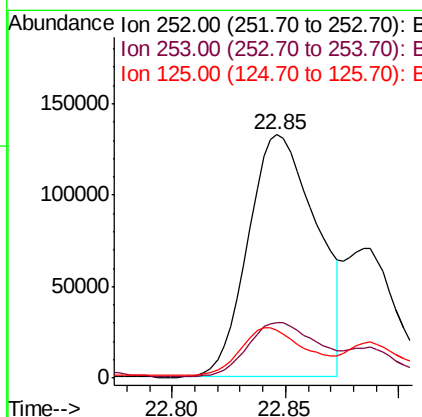
RT: 22.85 min Scan# 5245

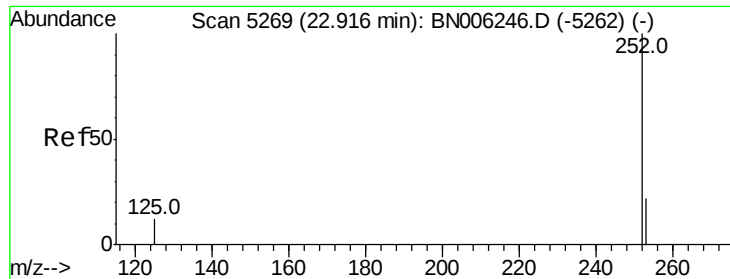
Delta R.T. 0.02 min

Lab File: BN006249.D

Acq: 11 Jun 2019 16:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 277423 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.8  | 0.0   | 51.4   |
| 125       | 19.6  | 0.0   | 41.0   |





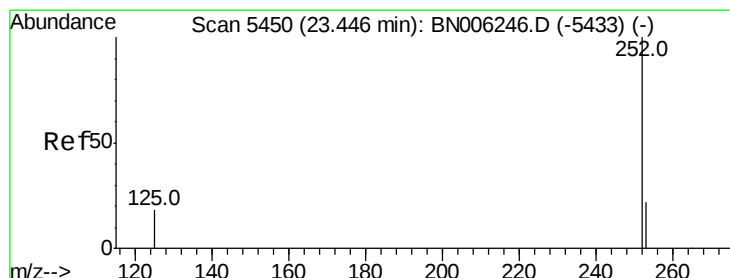
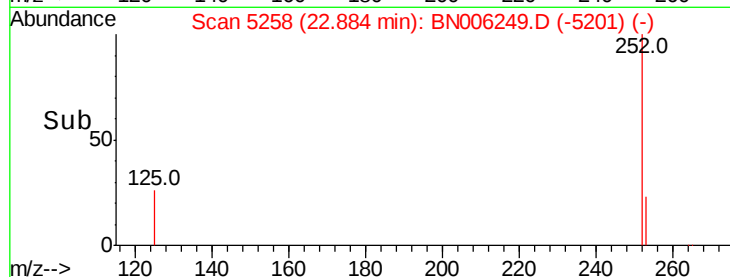
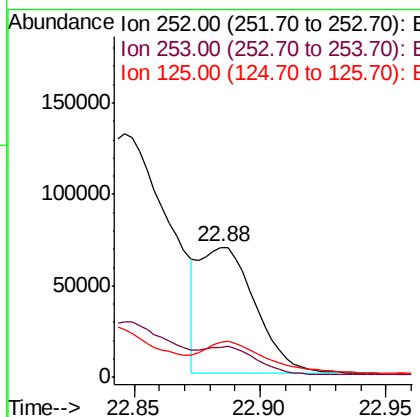
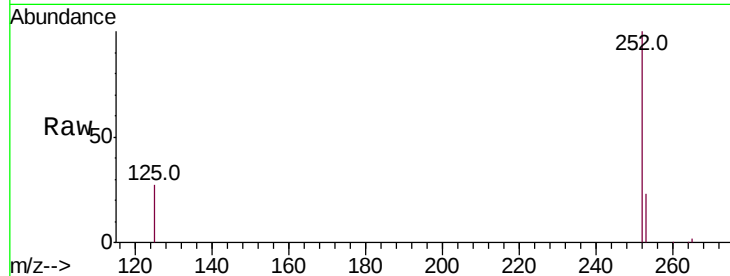
#22  
Benzo(k)fluoranthene  
Concen: 2.127 ng/ul m  
RT: 22.88 min Scan# 5258  
Delta R.T. 0.02 min  
Lab File: BN006249.D  
Acq: 11 Jun 2019 16:54

Instrument :  
BNA\_N  
ClientSampleId :  
A51G0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 20.3  | 30.5  |
| 125     | 27.1  | 14.3  | 21.5# |

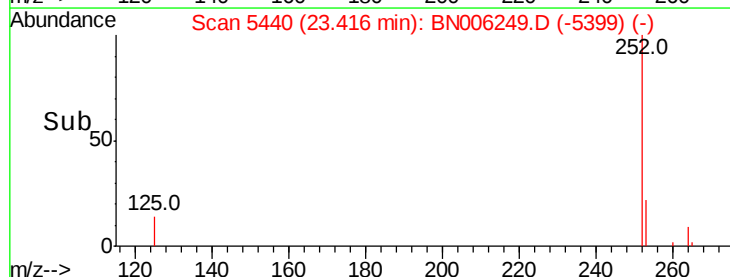
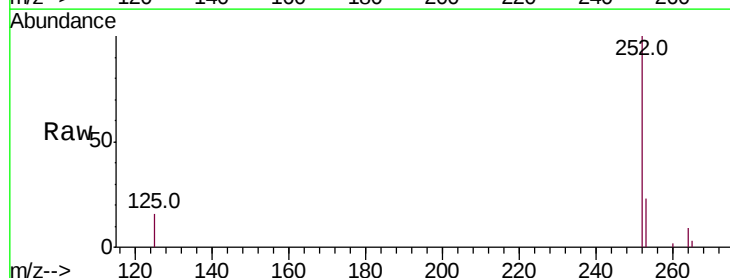
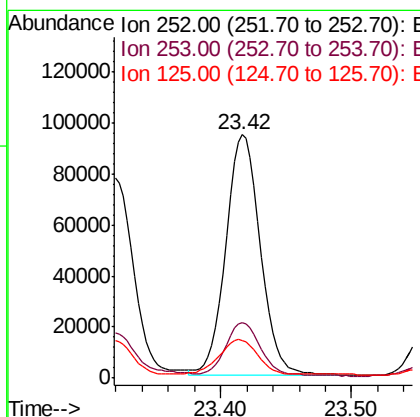
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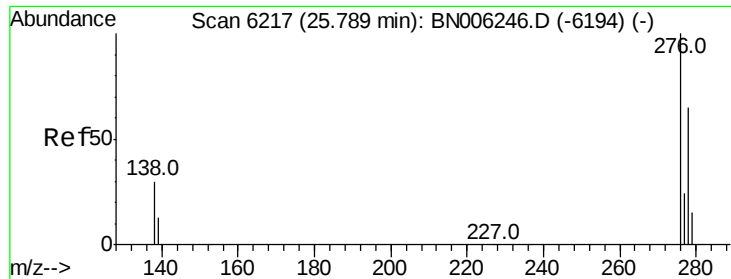
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#23  
Benzo(a)pyrene  
Concen: 3.571 ng/ul m  
RT: 23.42 min Scan# 5440  
Delta R.T. 0.02 min  
Lab File: BN006249.D  
Acq: 11 Jun 2019 16:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 21.1  | 31.7  |
| 125     | 15.5  | 20.3  | 30.5# |





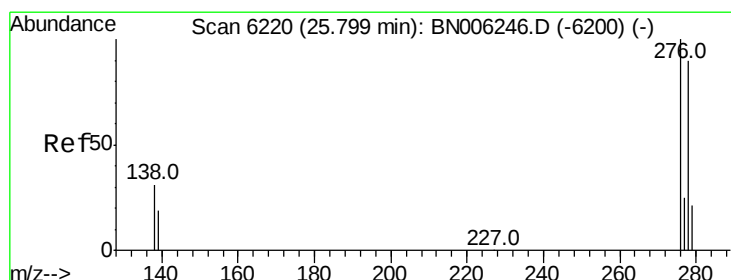
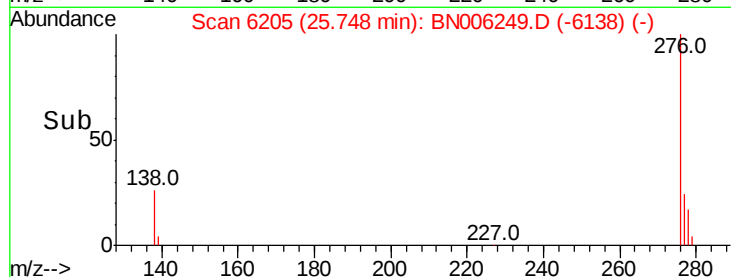
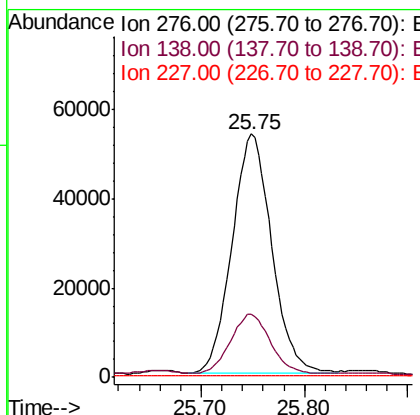
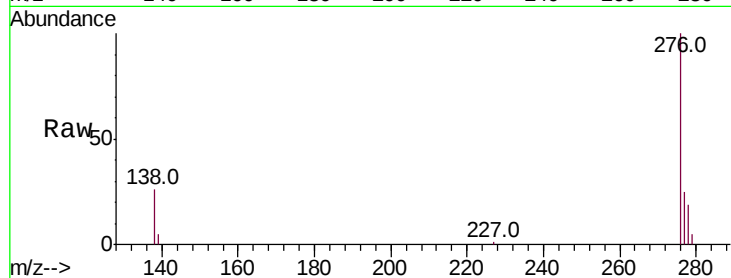
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.743 ng/ul m  
 RT: 25.75 min Scan# 6205  
 Delta R.T. 0.02 min  
 Lab File: BN006249.D  
 Acq: 11 Jun 2019 16:54

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A51G0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 2.1   | 25.6  | 38.4# |
| 227     | 0.0   | 0.3   | 0.5#  |

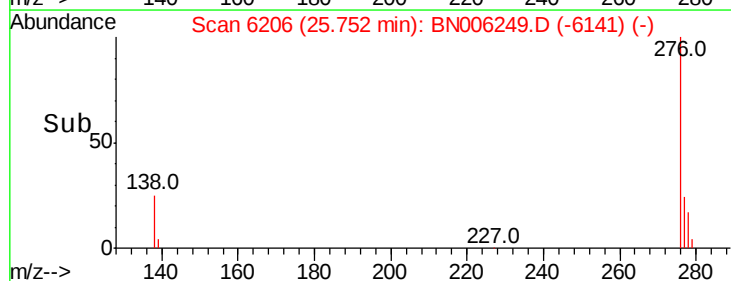
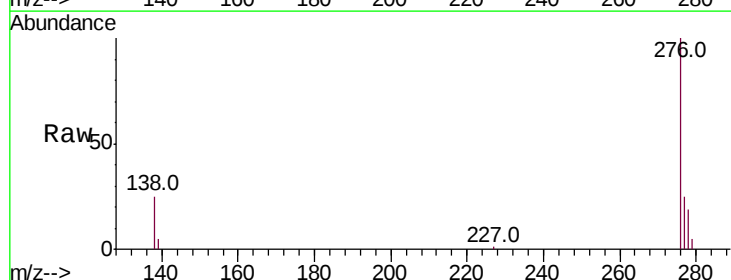
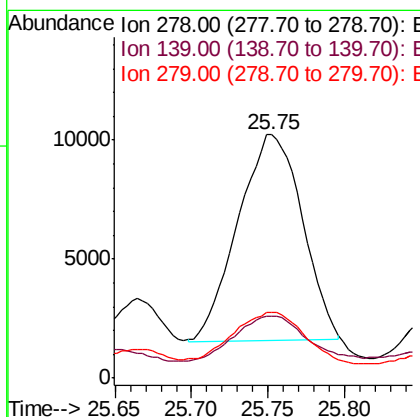
Manual Integrations  
 APPROVED

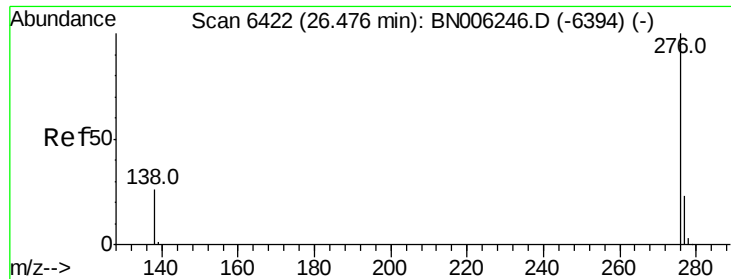
mohammad  
 6/12/2019 8:18:49 AM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.603 ng/ul  
 RT: 25.75 min Scan# 6206  
 Delta R.T. 0.02 min  
 Lab File: BN006249.D  
 Acq: 11 Jun 2019 16:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 25.2  | 21.2  | 31.8  |
| 279     | 27.1  | 22.6  | 33.8  |





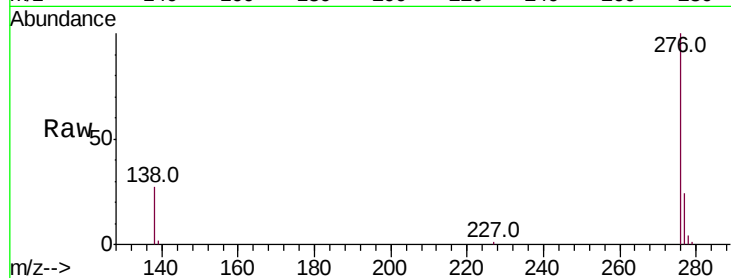
#26  
 Benzo(a,h,i)perylene  
 Concen: 3.172 ng/ul m  
 RT: 26.44 min Scan# 6411  
 Delta R.T. 0.04 min  
 Lab File: BN006249.D  
 Acq: 11 Jun 2019 16:54

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A51G0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.9  | 24.2  | 36.4  |
| 277     | 24.3  | 21.5  | 32.3  |

Manual Integrations  
 APPROVED

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

