

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101218\  
 Data File : BN003110.D  
 Acq On : 11 Oct 2018 19:26  
 Operator : MJ/SJ  
 Sample : J5368-08MSD  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A3Z47MSD

Manual Integrations  
 APPROVED

Sohil  
 10/12/2018 6:38:19 PM

Quant Time: Oct 12 05:52:53 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 12 05:29:36 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.63  | 152  | 1594     | 0.40   | ng/ul  | -0.01    |
| 2) Naphthalene-d8           | 10.41 | 136  | 6446     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.26 | 164  | 3324     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.02 | 188  | 6265     | 0.40   | ng/ul  | -0.01    |
| 16) Chrysene-d12            | 21.22 | 240  | 4248     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.44 | 264  | 4544     | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.01 | 152  | 2945     | 0.29   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.05 | 212  | 4625     | 0.26   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.46 | 128  | 1972     | 0.119  | ng/ul# | 91       |
| 5) 2-Methylnaphthalene      | 12.08 | 142  | 941      | 0.083  | ng/ul  | 98       |
| 7) Acenaphthylene           | 13.99 | 152  | 1341     | 0.088  | ng/ul# | 8        |
| 8) Acenaphthene             | 14.32 | 153  | 7663     | 0.664  | ng/ul  | 99       |
| 9) Fluorene                 | 15.33 | 166  | 3997     | 0.302  | ng/ul  | 96       |
| 12) Phenanthrene            | 17.06 | 178  | 54744    | 3.135  | ng/ul  | 99       |
| 13) Anthracene              | 17.16 | 178  | 11780    | 0.714  | ng/ul  | 97       |
| 15) Fluoranthene            | 19.09 | 202  | 82112    | 4.008  | ng/ul  | 98       |
| 17) Pyrene                  | 19.45 | 202  | 71859    | 4.355  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.21 | 228  | 36061    | 2.638  | ng/ul  | 98       |
| 19) Chrysene                | 21.26 | 228  | 34196    | 2.464  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.77 | 252  | 50917m   | 3.111  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.82 | 252  | 19838m   | 1.169  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.34 | 252  | 37481    | 2.556  | ng/ul  | 93       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.65 | 276  | 26295    | 1.560  | ng/ul# | 94       |
| 25) Dibenzo(a,h)anthracene  | 25.64 | 278  | 7213     | 0.535  | ng/ul# | 86       |
| 26) Benzo(a,h,i)perylene    | 26.32 | 276  | 23264    | 1.637  | ng/ul  | 96       |

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

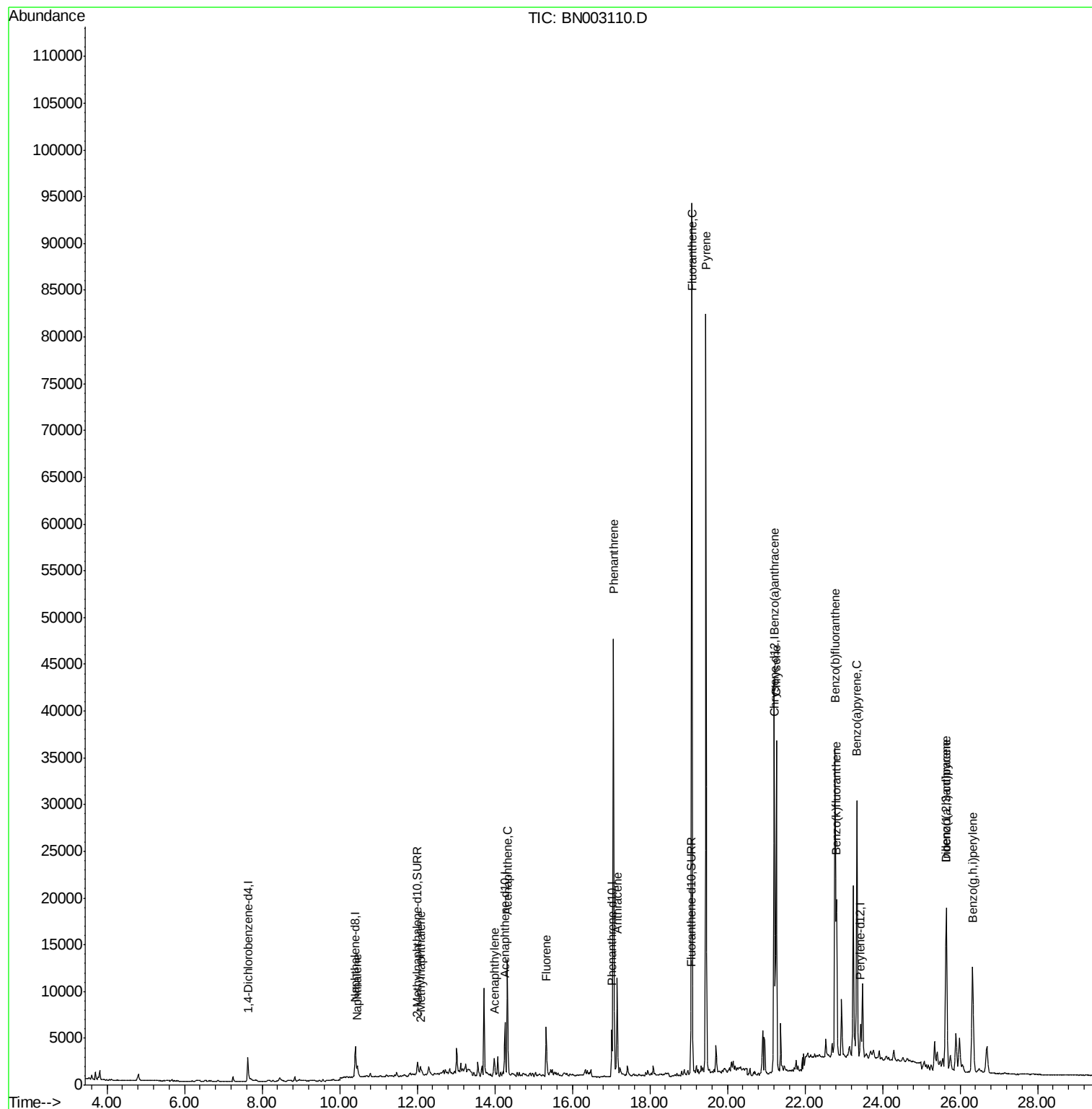
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101218\  
Data File : BN003110.D  
Acq On : 11 Oct 2018 19:26  
Operator : MJ/SJ  
Sample : J5368-08MSD  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

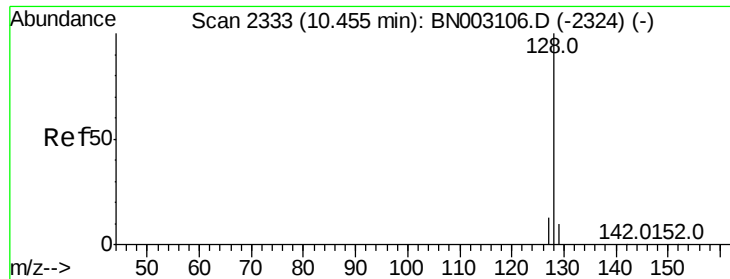
Instrument :  
BNA\_N  
ClientSampleId :  
A3Z47MSD

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Quant Time: Oct 12 05:52:53 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 12 05:29:36 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.119 ng/ul

RT: 10.46 min Scan# 2333

Delta R.T. 0.00 min

Lab File: BN003110.D

Acq: 11 Oct 2018 19:26

Instrument :

BNA\_N

ClientSampled :

A3Z47MSD

Tot Ion:128 Resp: 1972

Ion Ratio Lower Upper

128 100

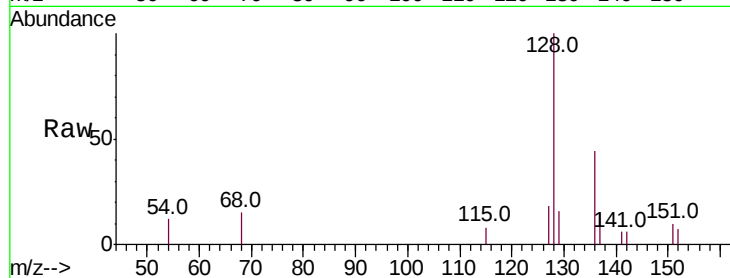
129 16.5 10.4 15.6#

127 18.3 11.7 17.5#

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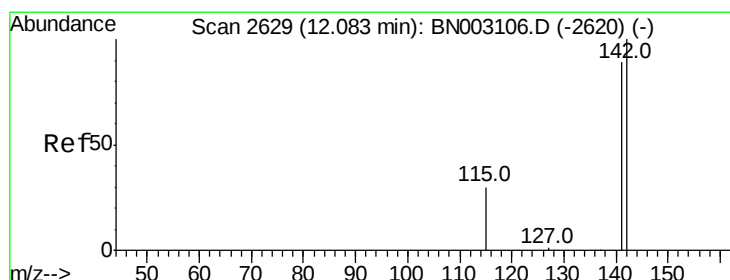
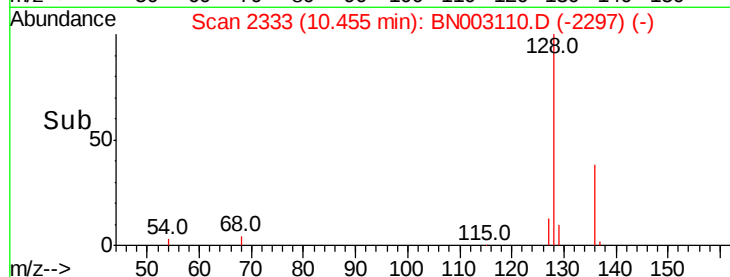
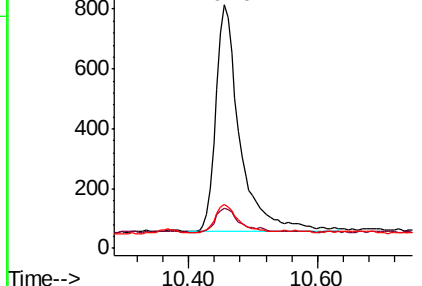
10/12/2018 6:38:19 PM



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.083 ng/ul

RT: 12.08 min Scan# 2629

Delta R.T. 0.00 min

Lab File: BN003110.D

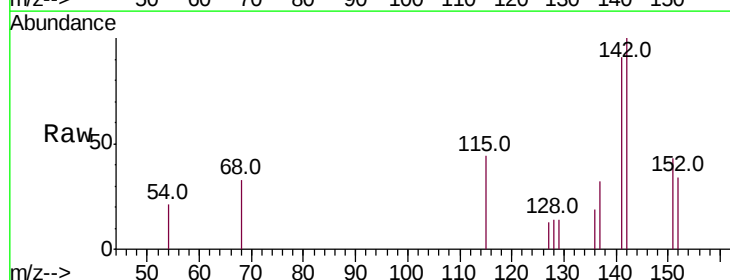
Acq: 11 Oct 2018 19:26

Tgt Ion:142 Resp: 941

Ion Ratio Lower Upper

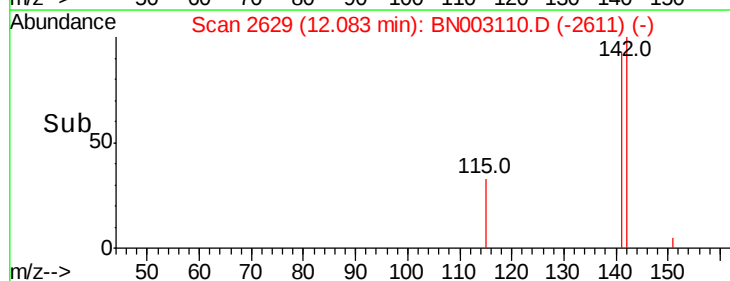
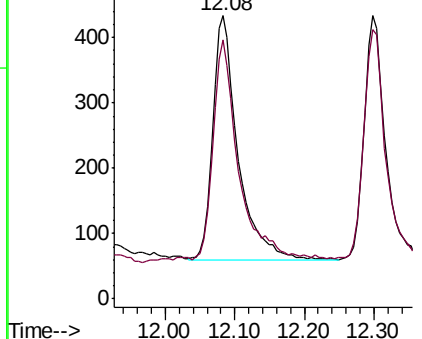
142 100

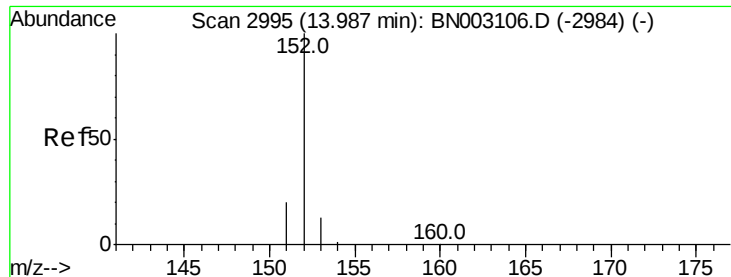
141 90.1 73.4 110.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.088 ng/ul

RT: 13.99 min Scan# 2995

Delta R.T. 0.00 min

Lab File: BN003110.D

Acq: 11 Oct 2018 19:26

Instrument :

BNA\_N

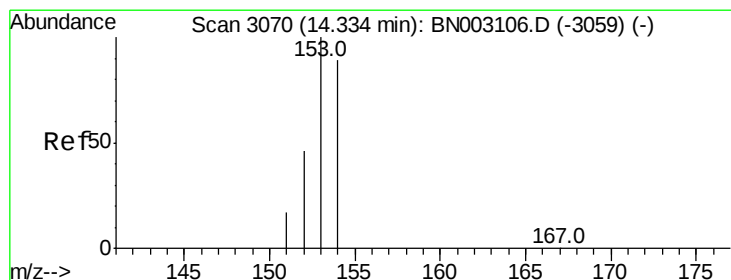
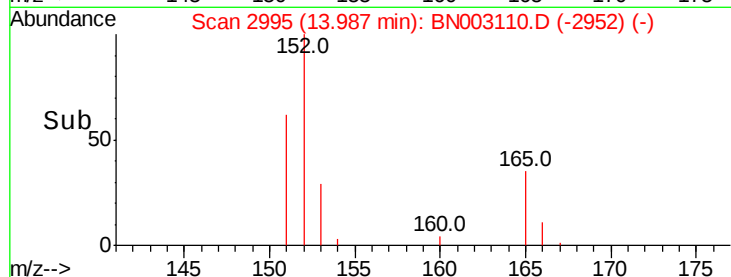
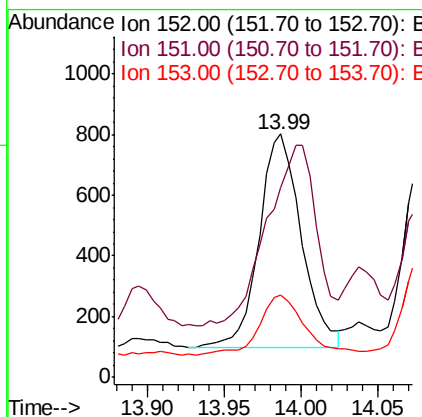
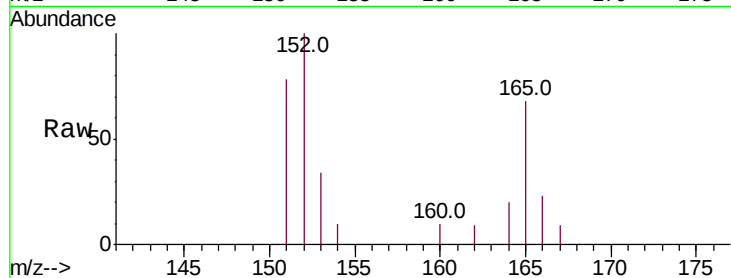
ClientSampleId :

A3Z47MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 1341  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 77.9  | 16.5  | 24.7# |
| 153       | 33.7  | 11.4  | 17.2# |

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#8

Acenaphthene

Concen: 0.664 ng/ul

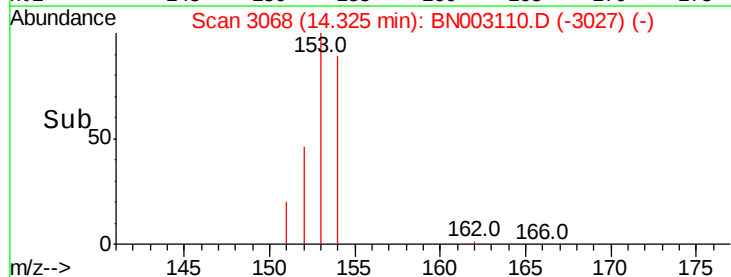
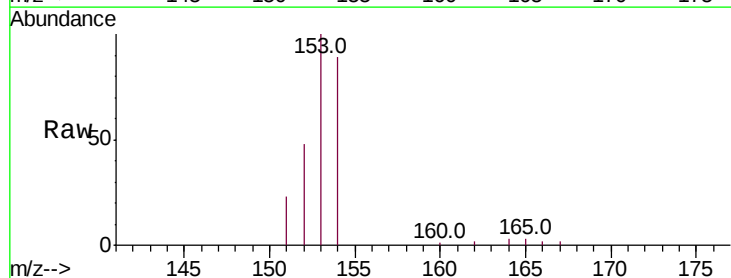
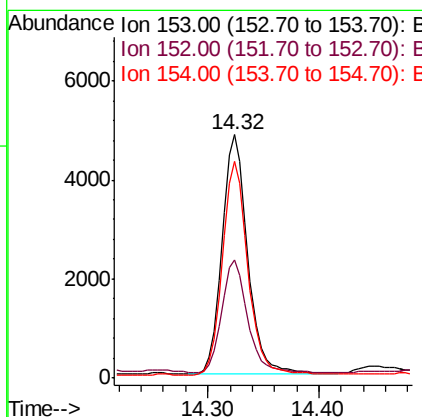
RT: 14.32 min Scan# 3068

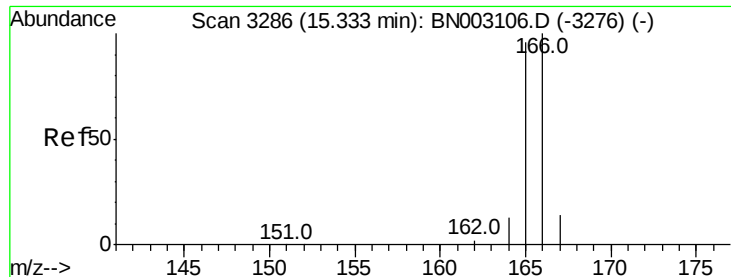
Delta R.T. -0.01 min

Lab File: BN003110.D

Acq: 11 Oct 2018 19:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 7663  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 48.3  | 38.2  | 57.4  |
| 154       | 88.8  | 70.2  | 105.2 |





#9

Fluorene

Concen: 0.302 ng/ul

RT: 15.33 min Scan# 3285

Delta R.T. -0.00 min

Lab File: BN003110.D

Acq: 11 Oct 2018 19:26

Instrument :

BNA\_N

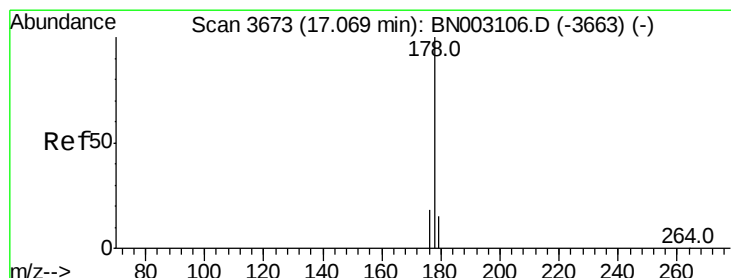
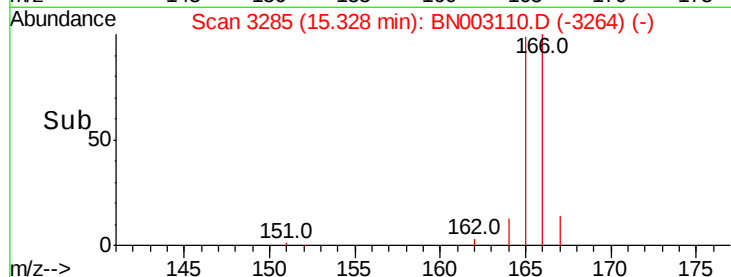
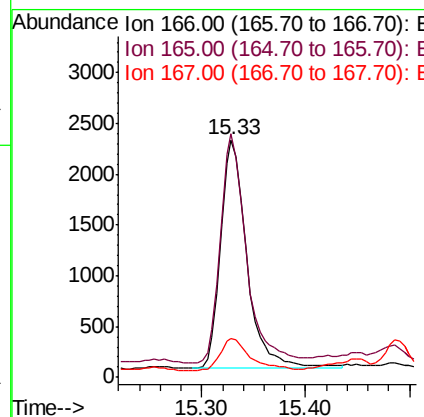
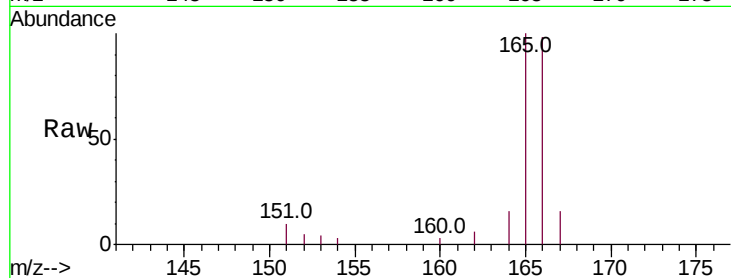
ClientSampleId :

A3Z47MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 3997  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 102.4 | 78.5  | 117.7 |
| 167       | 16.4  | 11.6  | 17.4  |

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#12

Phenanthrene

Concen: 3.135 ng/ul

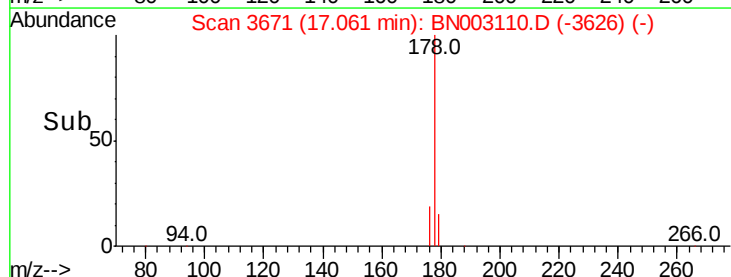
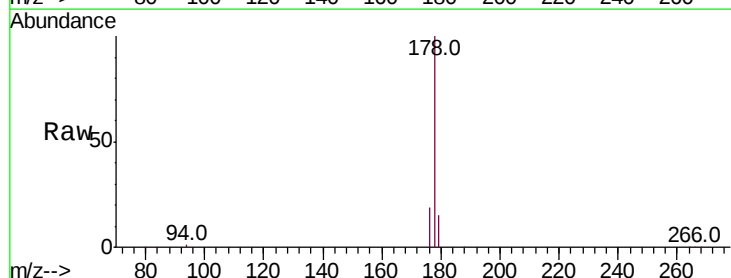
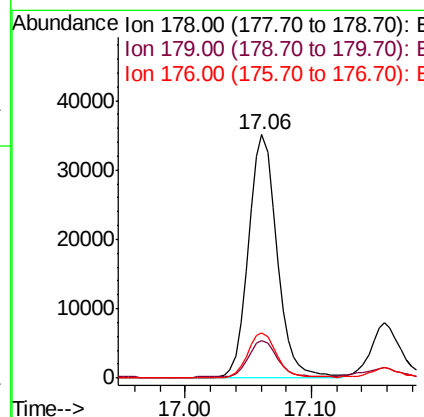
RT: 17.06 min Scan# 3671

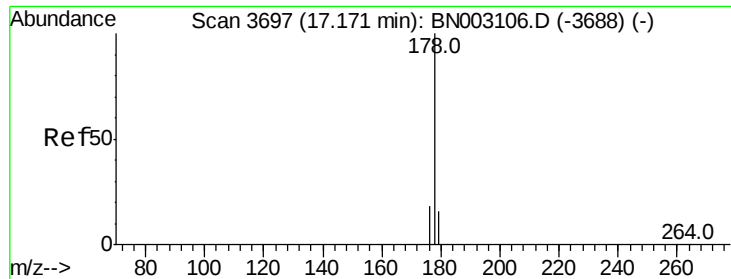
Delta R.T. -0.01 min

Lab File: BN003110.D

Acq: 11 Oct 2018 19:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 54744 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.4  | 12.9  | 19.3  |
| 176       | 18.8  | 15.4  | 23.2  |





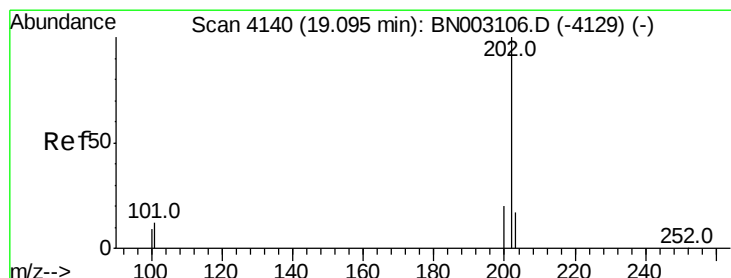
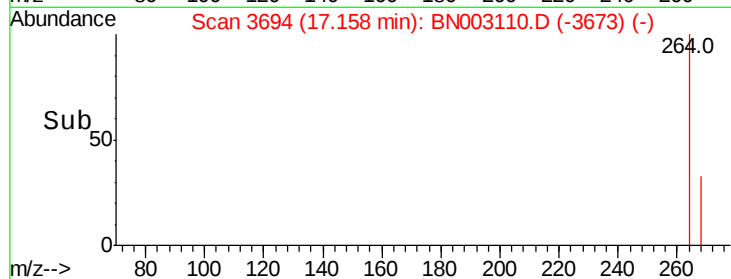
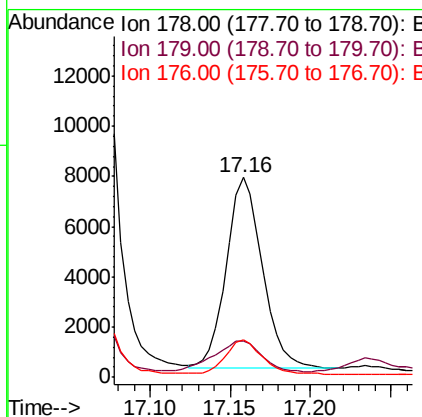
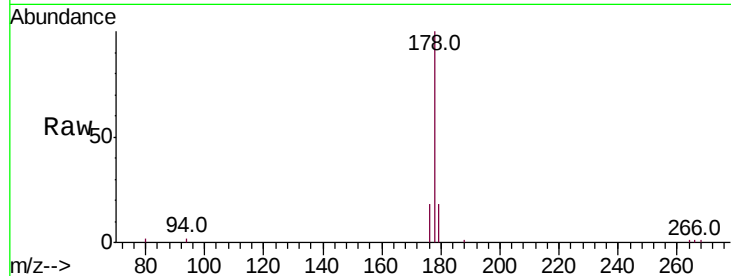
#13  
 Anthracene  
 Concen: 0.714 ng/ul  
 RT: 17.16 min Scan# 3694  
 Delta R.T. -0.01 min  
 Lab File: BN003110.D  
 Acq: 11 Oct 2018 19:26

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A3Z47MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 18.2  | 13.0  | 19.6  |
| 176     | 18.5  | 15.3  | 22.9  |

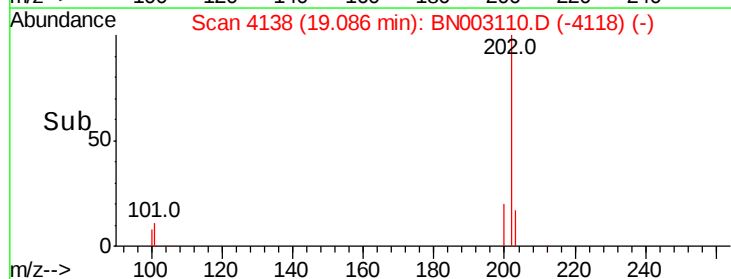
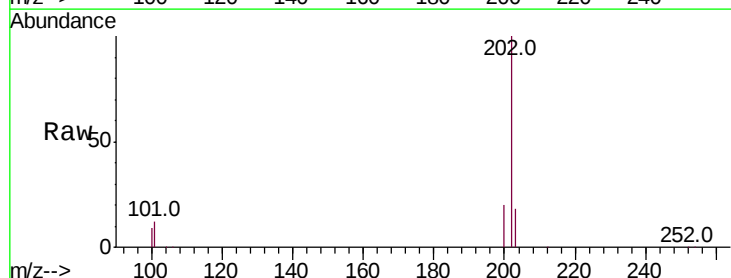
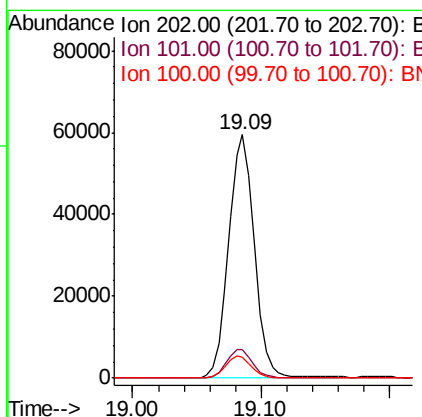
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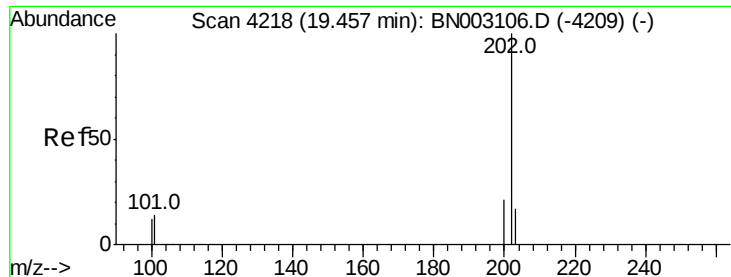
Sohil  
 10/12/2018 6:38:19 PM



#15  
 Fluoranthene  
 Concen: 4.008 ng/ul  
 RT: 19.09 min Scan# 4138  
 Delta R.T. -0.01 min  
 Lab File: BN003110.D  
 Acq: 11 Oct 2018 19:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.6  | 0.0   | 32.3  |
| 100     | 8.6   | 0.0   | 29.1  |





#17

Pvrene

Concen: 4.355 ng/ul

RT: 19.45 min Scan# 4216

Delta R.T. -0.01 min

Lab File: BN003110.D

Acq: 11 Oct 2018 19:26

Instrument :

BNA\_N

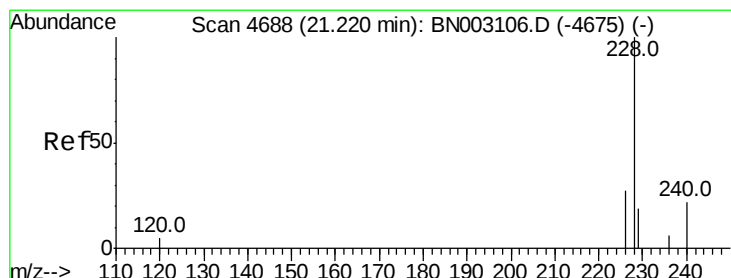
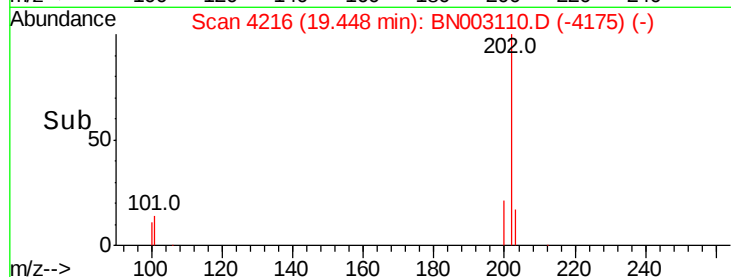
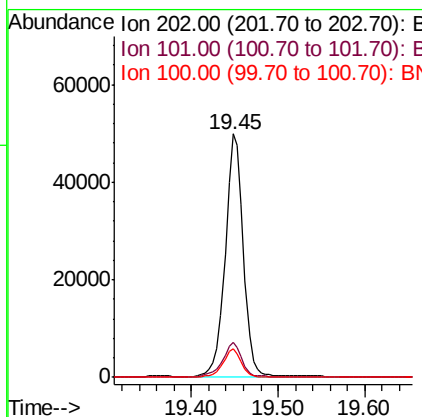
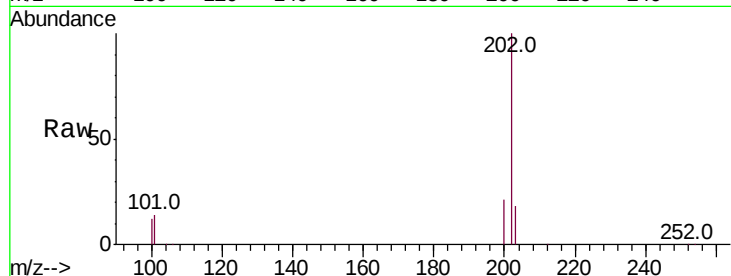
ClientSampleId :

A3Z47MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 71859 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 14.4  | 11.9  | 17.9  |
| 100       | 11.5  | 9.9   | 14.9  |

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#18

Benzo(a)anthracene

Concen: 2.638 ng/ul

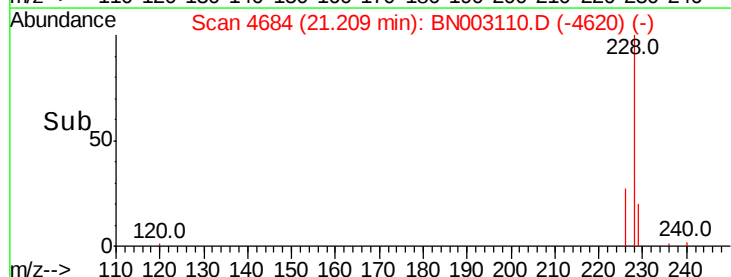
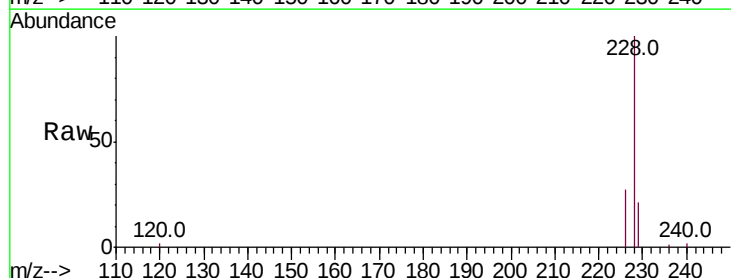
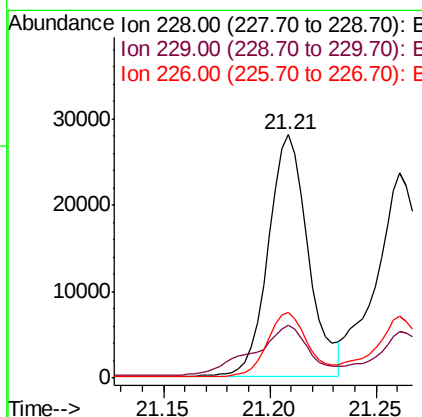
RT: 21.21 min Scan# 4684

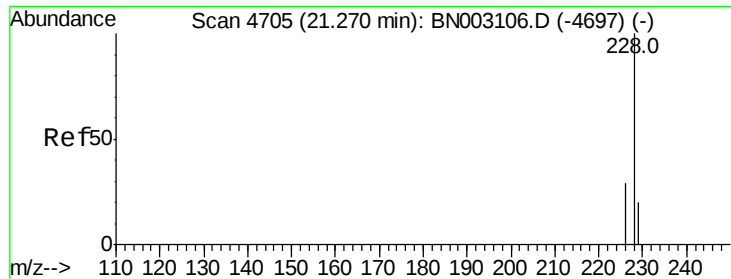
Delta R.T. -0.01 min

Lab File: BN003110.D

Acq: 11 Oct 2018 19:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 36061 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 21.5  | 16.2  | 24.2  |
| 226       | 27.2  | 22.3  | 33.5  |





#19

Chrysene

Concen: 2.464 ng/ul

RT: 21.26 min Scan# 4702

Delta R.T. -0.01 min

Lab File: BN003110.D

Acq: 11 Oct 2018 19:26

Instrument :

BNA\_N

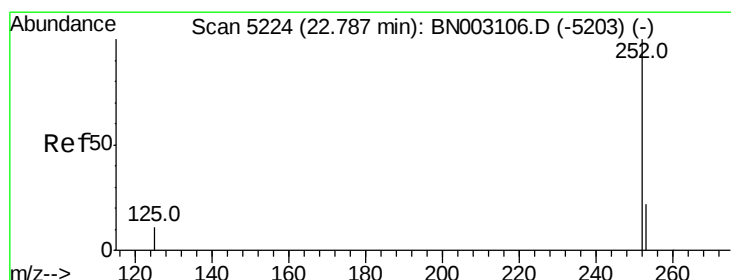
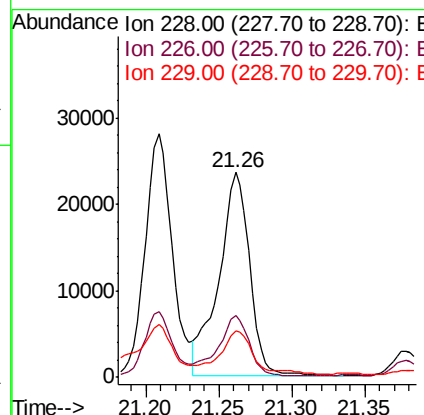
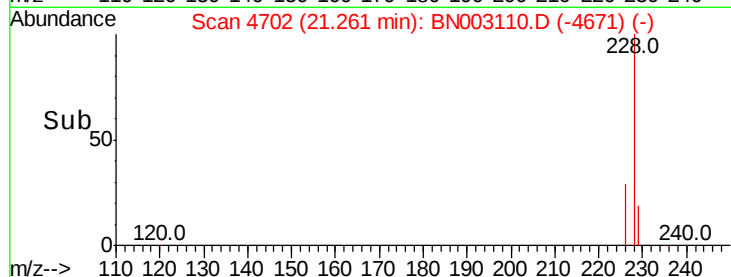
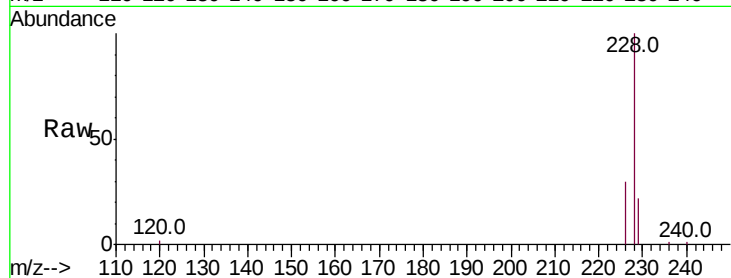
ClientSampleId :

A3Z47MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 34196 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.0  | 24.2  | 36.4  |
| 229       | 22.4  | 16.7  | 25.1  |

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#21

Benzo(b)fluoranthene

Concen: 3.111 ng/ul m

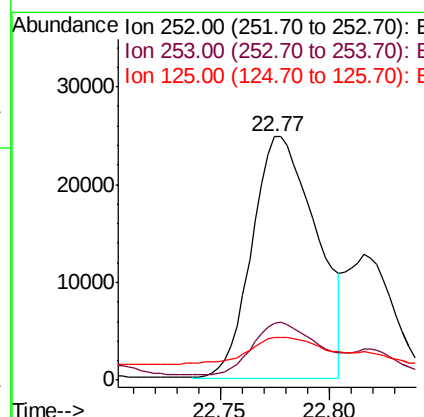
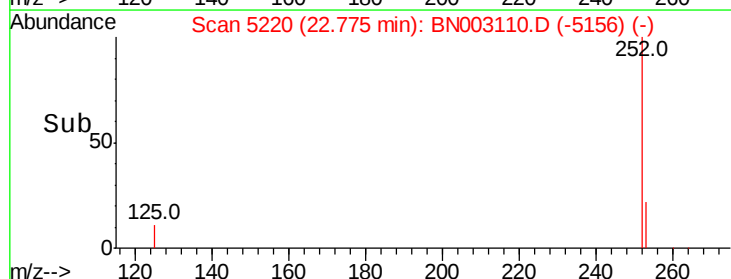
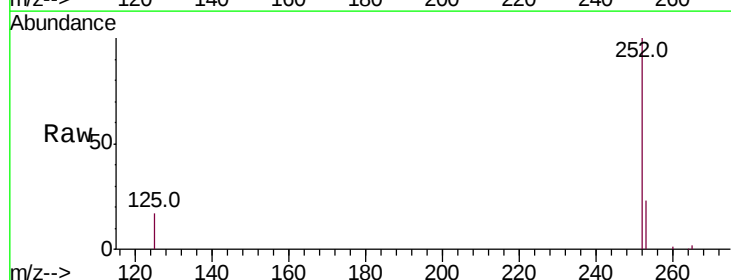
RT: 22.77 min Scan# 5220

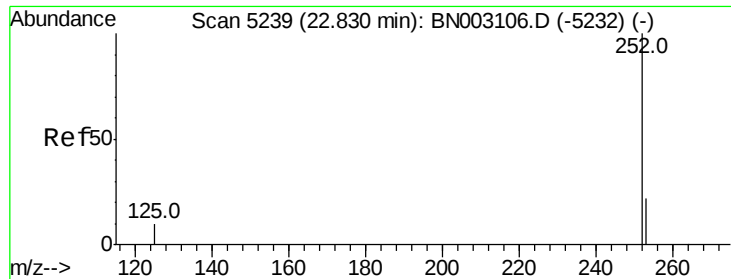
Delta R.T. -0.01 min

Lab File: BN003110.D

Acq: 11 Oct 2018 19:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 50917 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.3  | 0.0   | 53.2  |
| 125       | 17.3  | 0.0   | 34.2  |





#22

Benzo(k)fluoranthene

Concen: 1.169 ng/ul m

RT: 22.82 min Scan# 5234

Delta R.T. -0.01 min

Lab File: BN003110.D

Acq: 11 Oct 2018 19:26

Instrument :

BNA\_N

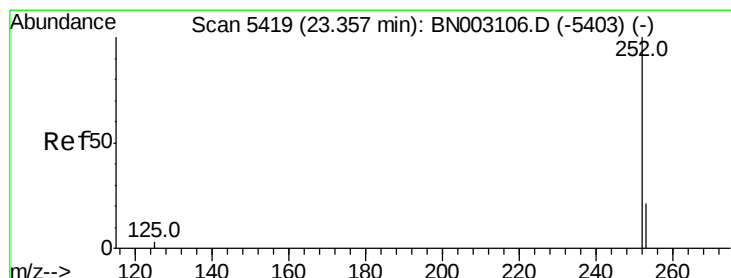
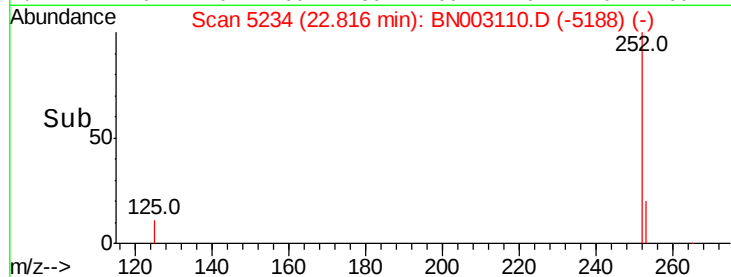
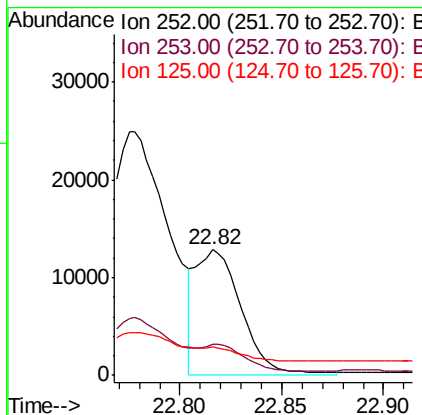
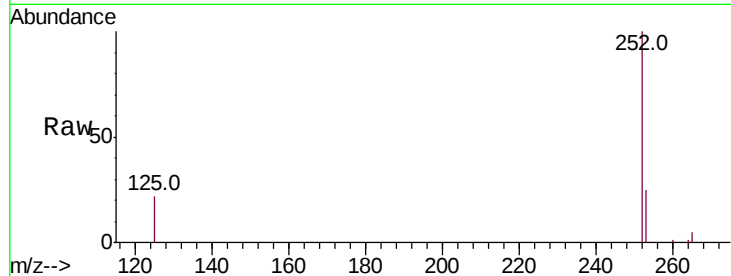
ClientSampleId :

A3Z47MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.8  | 21.3  | 31.9  |
| 125     | 22.3  | 14.1  | 21.1  |

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#23

Benzo(a)pyrene

Concen: 2.556 ng/ul

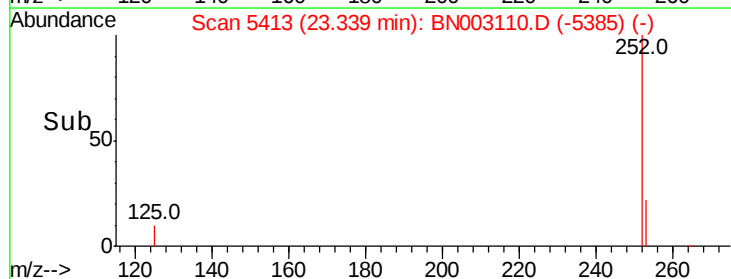
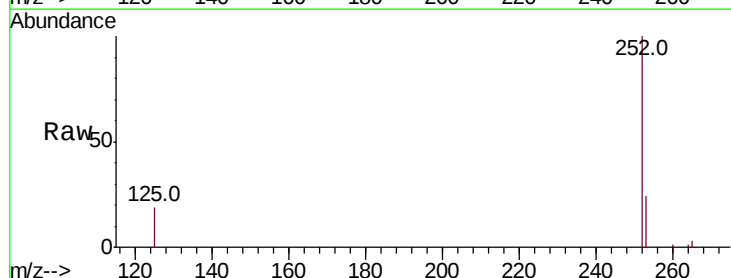
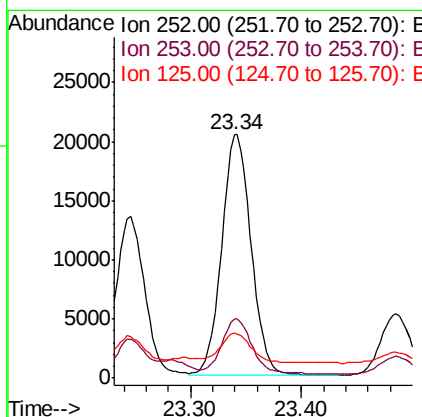
RT: 23.34 min Scan# 5413

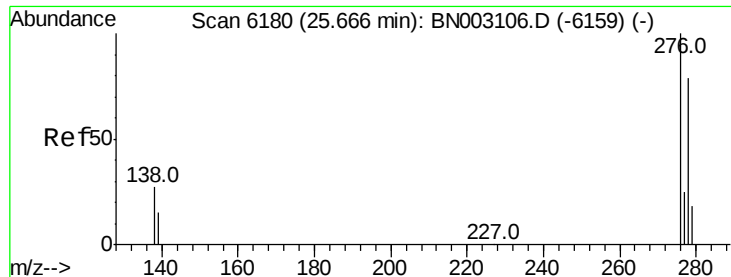
Delta R.T. -0.02 min

Lab File: BN003110.D

Acq: 11 Oct 2018 19:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 23.1  | 34.7  |
| 125     | 18.6  | 16.9  | 25.3  |





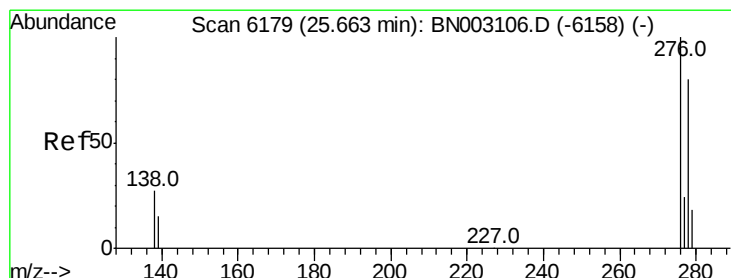
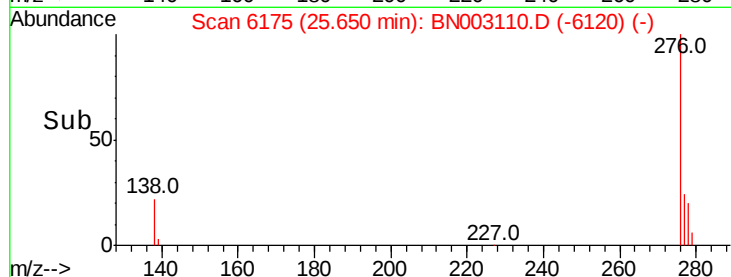
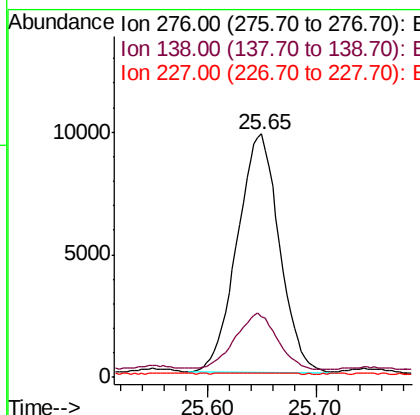
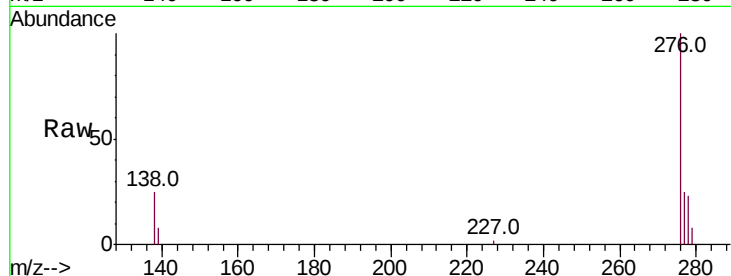
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.560 ng/ul  
 RT: 25.65 min Scan# 6175  
 Delta R.T. -0.02 min  
 Lab File: BN003110.D  
 Acq: 11 Oct 2018 19:26

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A3Z47MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.7  | 21.5  | 32.3  |
| 227     | 0.2   | 0.3   | 0.5   |

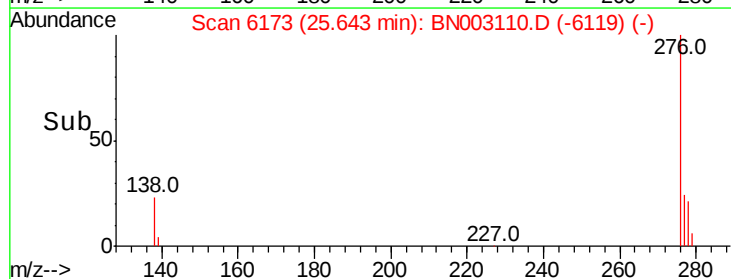
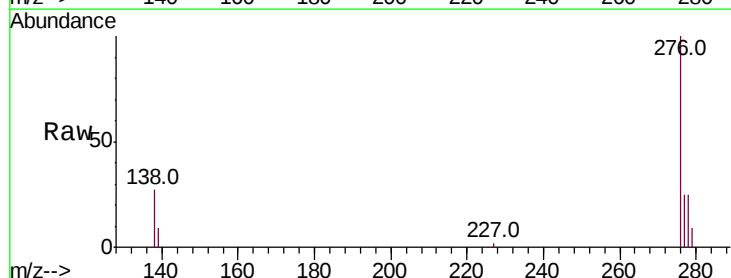
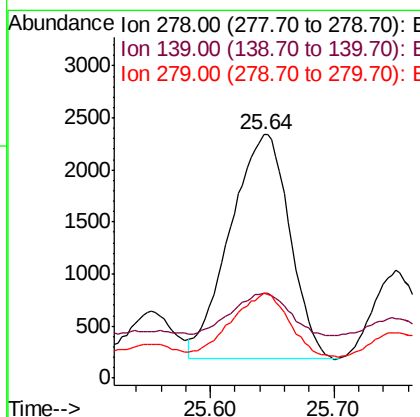
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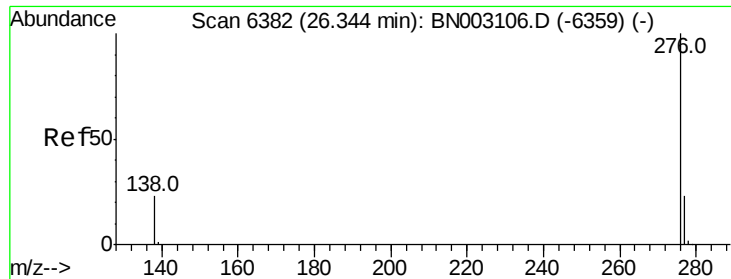
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.535 ng/ul  
 RT: 25.64 min Scan# 6173  
 Delta R.T. -0.02 min  
 Lab File: BN003110.D  
 Acq: 11 Oct 2018 19:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 35.1  | 20.2  | 30.4  |
| 279     | 34.7  | 23.8  | 35.8  |





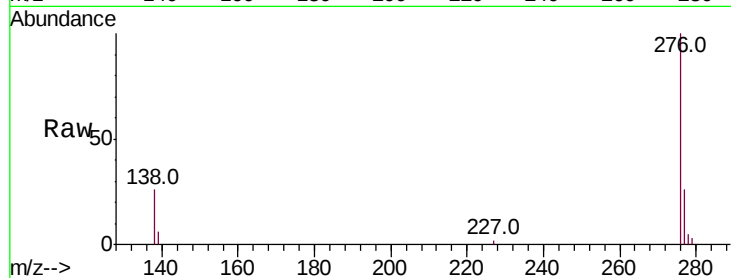
#26  
Benzo(a,h,i)perylene  
Concen: 1.637 ng/ul  
RT: 26.32 min Scan# 6376  
Delta R.T. -0.02 min  
Lab File: BN003110.D  
Acq: 11 Oct 2018 19:26

Instrument :  
BNA\_N  
ClientSampleId :  
A3Z47MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.5  | 23.0  | 34.4  |
| 277     | 25.7  | 22.0  | 33.0  |

Manual Integrations  
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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

