

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101218\  
 Data File : BN003104.D  
 Acq On : 11 Oct 2018 15:55  
 Operator : MJ/SJ  
 Sample : J5295-03MS  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A3YY3MS

Manual Integrations  
 APPROVED

Sohil  
 10/12/2018 6:38:14 PM

Quant Time: Oct 11 17:09:13 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 : Thu Oct 11 16:42:09 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.63  | 152  | 1674     | 0.40   | ng/ul  | -0.02    |
| 2) Naphthalene-d8           | 10.40 | 136  | 6817     | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.26 | 164  | 3641     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.01 | 188  | 6650     | 0.40   | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.22 | 240  | 4300     | 0.40   | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.44 | 264  | 5020     | 0.40   | ng/ul  | -0.02    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.00 | 152  | 1203     | 0.11   | ng/ul  | -0.02    |
| 14) Fluoranthene-d10        | 19.05 | 212  | 1870     | 0.10   | ng/ul  | -0.01    |
| Target Compounds            |       |      |          |        | Ovalue |          |
| 3) Naphthalene              | 10.45 | 128  | 5877     | 0.336  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.08 | 142  | 2850     | 0.237  | ng/ul  | 98       |
| 7) Acenaphthylene           | 13.98 | 152  | 18700    | 1.123  | ng/ul  | 99       |
| 8) Acenaphthene             | 14.32 | 153  | 5297     | 0.419  | ng/ul  | 99       |
| 9) Fluorene                 | 15.32 | 166  | 5610     | 0.387  | ng/ul# | 97       |
| 11) Pentachlorophenol       | 16.71 | 266  | 130      | 0.201  | ng/ul  | 89       |
| 12) Phenanthrene            | 17.06 | 178  | 125343   | 6.762  | ng/ul  | 99       |
| 13) Anthracene              | 17.15 | 178  | 25170    | 1.437  | ng/ul  | 99       |
| 15) Fluoranthene            | 19.08 | 202  | 202441   | 9.309  | ng/ul  | 100      |
| 17) Pyrene                  | 19.45 | 202  | 233153   | 13.960 | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.21 | 228  | 98470    | 7.116  | ng/ul  | 99       |
| 19) Chrysene                | 21.26 | 228  | 101777   | 7.243  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.78 | 252  | 122969m  | 6.802  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.82 | 252  | 42614m   | 2.274  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.34 | 252  | 97180    | 5.998  | ng/ul  | 93       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.65 | 276  | 61399    | 3.298  | ng/ul# | 94       |
| 25) Dibenzo(a,h)anthracene  | 25.65 | 278  | 17378    | 1.166  | ng/ul# | 86       |
| 26) Benzo(g,h,i)perylene    | 26.33 | 276  | 60866    | 3.877  | ng/ul  | 95       |

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

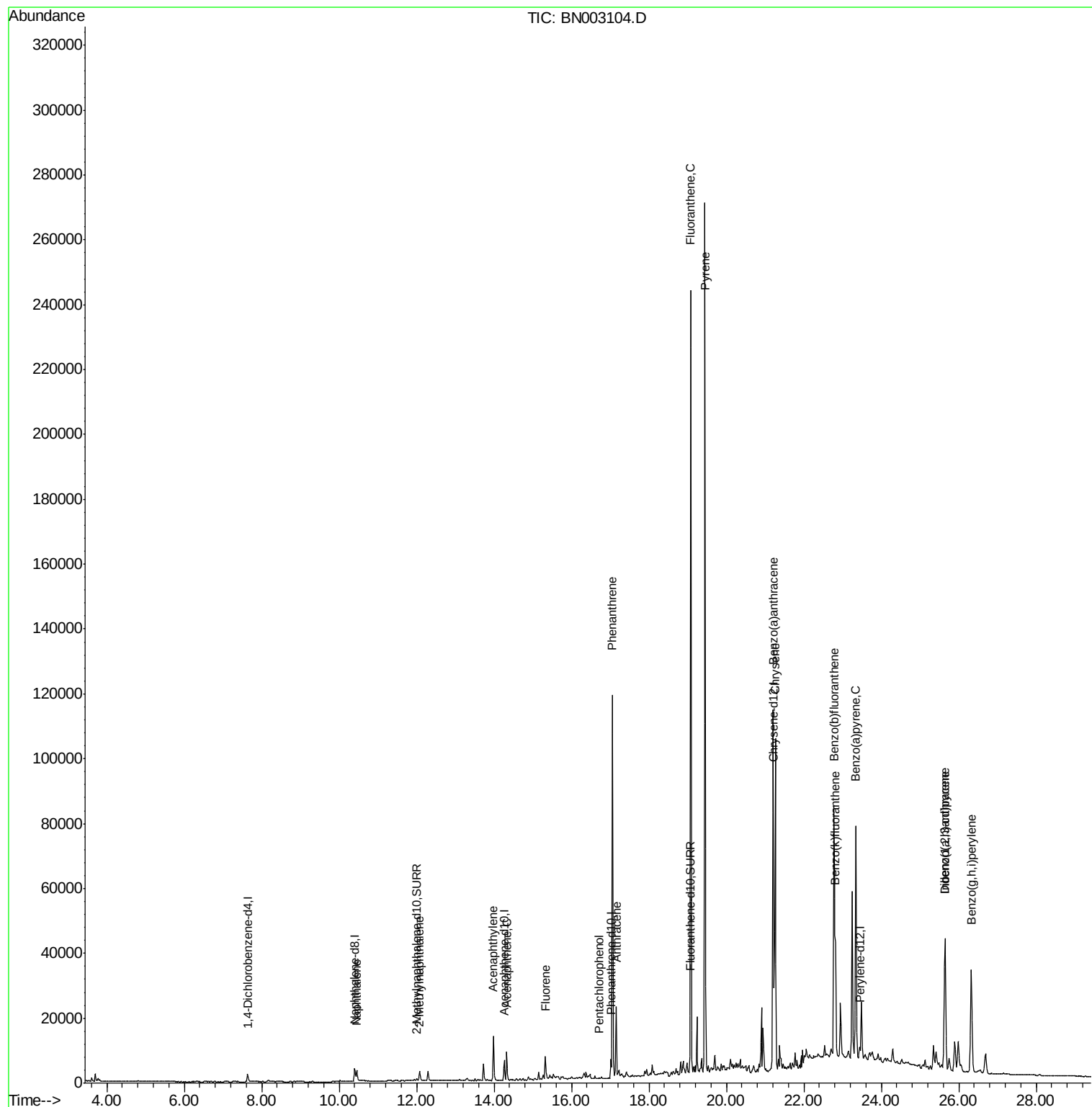
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101218\  
Data File : BN003104.D  
Acq On : 11 Oct 2018 15:55  
Operator : MJ/SJ  
Sample : J5295-03MS  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

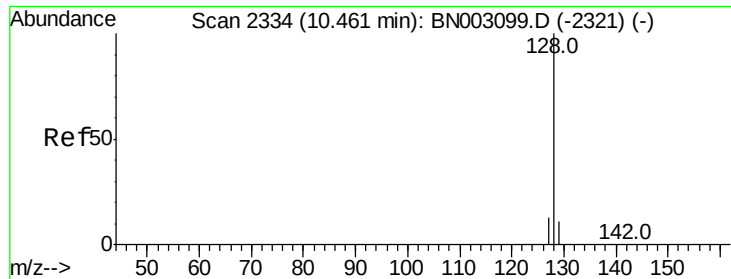
Instrument :  
BNA\_N  
ClientSampleId :  
A3YY3MS

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Quant Time: Oct 11 17:09:13 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 : Thu Oct 11 16:42:09 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.336 ng/ul

RT: 10.45 min Scan# 2332

Delta R.T. -0.01 min

Lab File: BN003104.D

Acq: 11 Oct 2018 15:55

Instrument :

BNA\_N

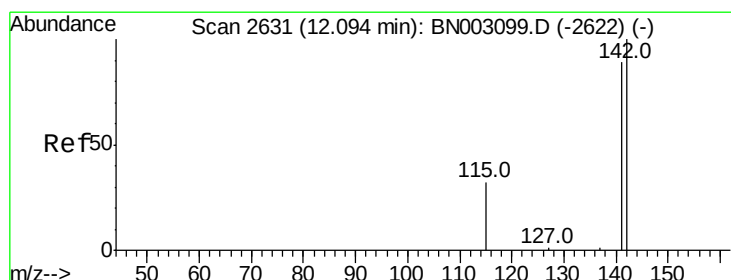
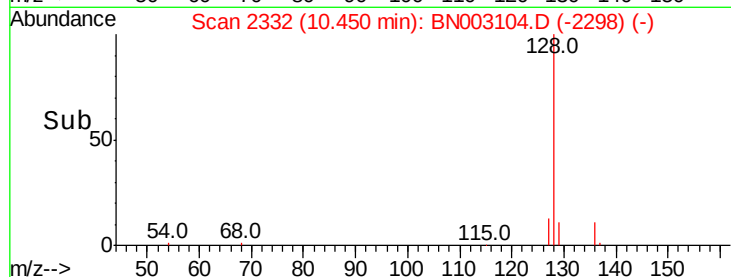
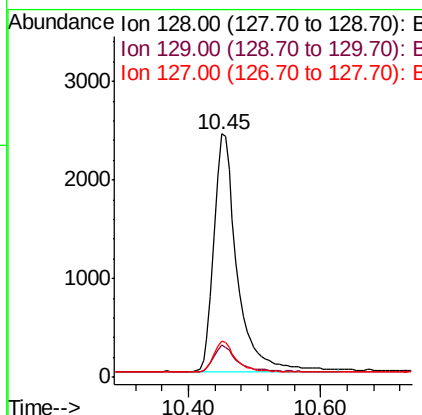
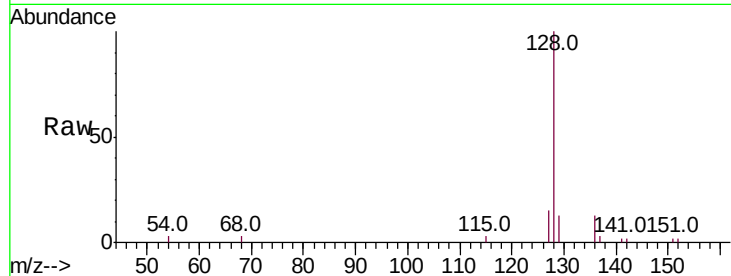
ClientSampleId :

A3YY3MS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 5877  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 13.3  | 10.4  | 15.6  |
| 127      | 15.0  | 11.7  | 17.5  |

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#5

2-Methylnaphthalene

Concen: 0.237 ng/ul

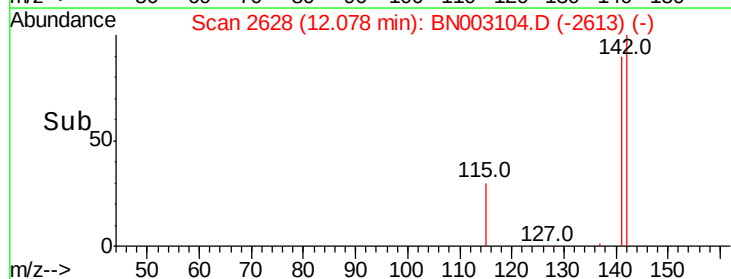
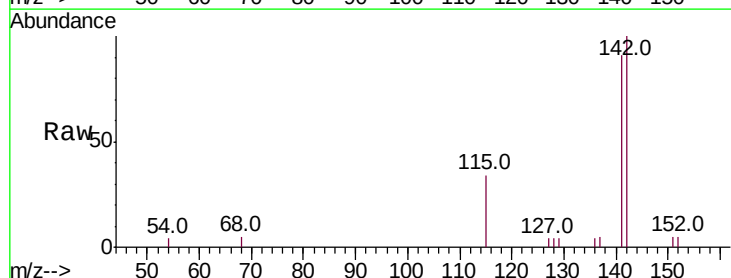
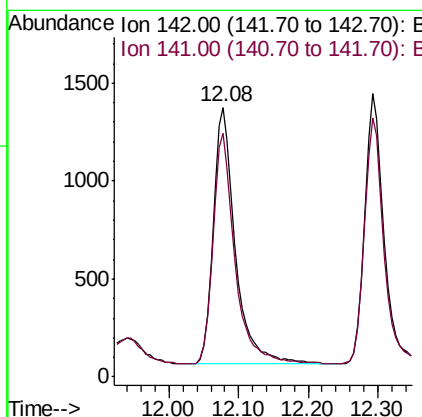
RT: 12.08 min Scan# 2628

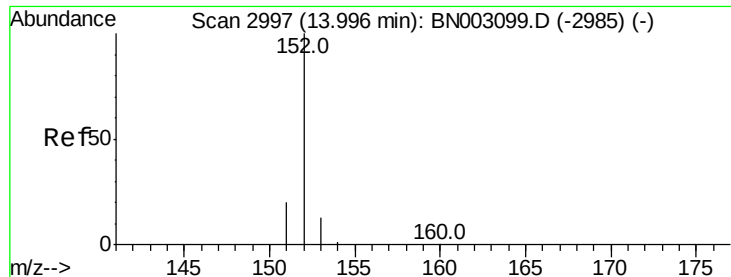
Delta R.T. -0.02 min

Lab File: BN003104.D

Acq: 11 Oct 2018 15:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 2850  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 90.1  | 73.4  | 110.0 |





#7

Acenaphthylene

Concen: 1.123 ng/ul

RT: 13.98 min Scan# 2994

Delta R.T. -0.01 min

Lab File: BN003104.D

Acq: 11 Oct 2018 15:55

Instrument :

BNA\_N

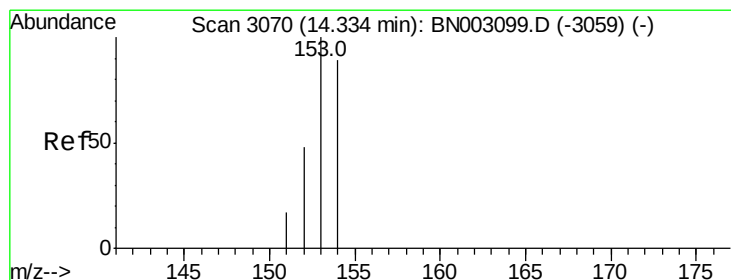
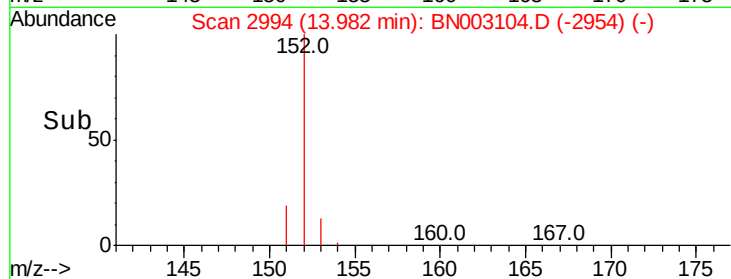
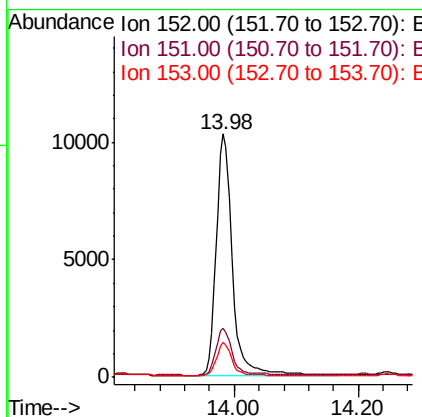
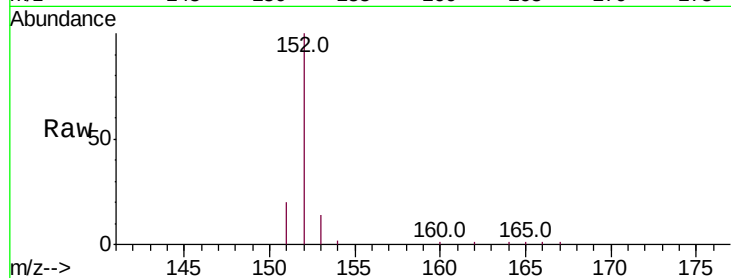
ClientSampleId :

A3YY3MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 18700 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.2  | 16.5  | 24.7  |
| 153       | 14.1  | 11.4  | 17.2  |

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#8

Acenaphthene

Concen: 0.419 ng/ul

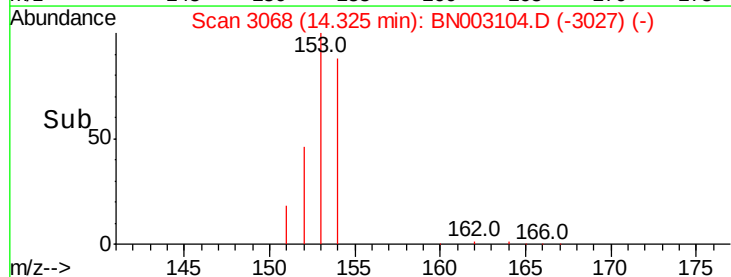
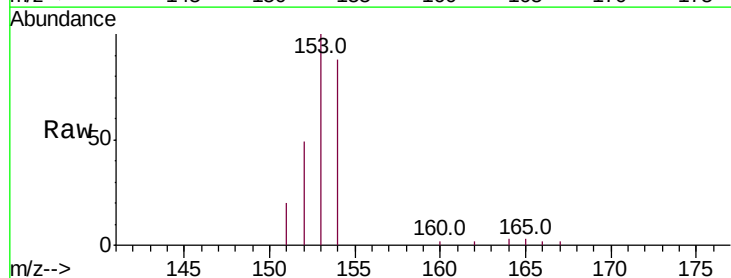
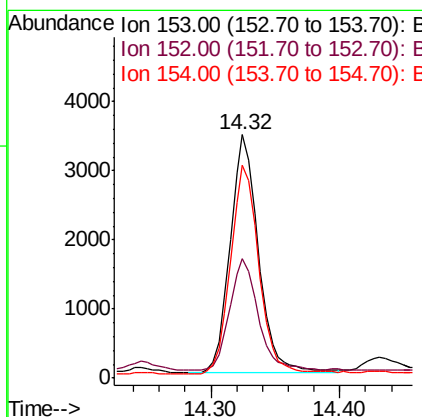
RT: 14.32 min Scan# 3068

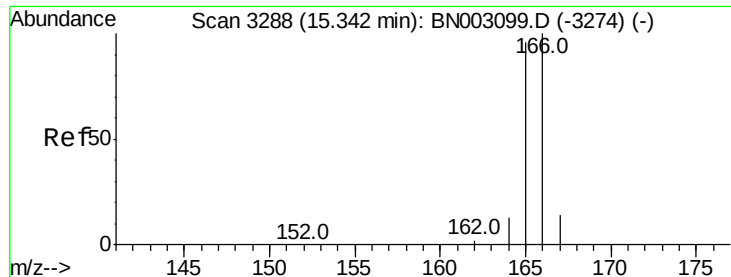
Delta R.T. -0.01 min

Lab File: BN003104.D

Acq: 11 Oct 2018 15:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 5297  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 48.9  | 38.2  | 57.4  |
| 154       | 87.6  | 70.2  | 105.2 |





#9

Fluorene

Concen: 0.387 ng/ul

RT: 15.32 min Scan# 3284

Delta R.T. -0.02 min

Lab File: BN003104.D

Acq: 11 Oct 2018 15:55

Instrument :

BNA\_N

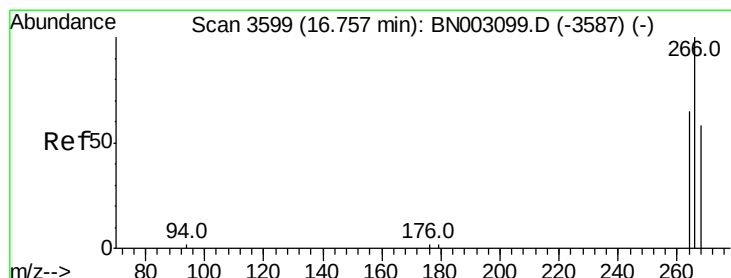
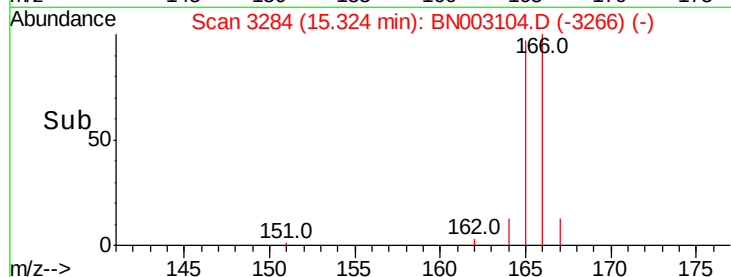
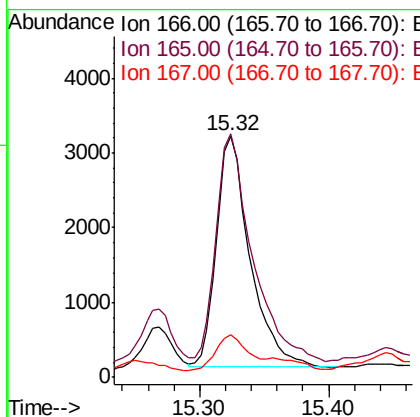
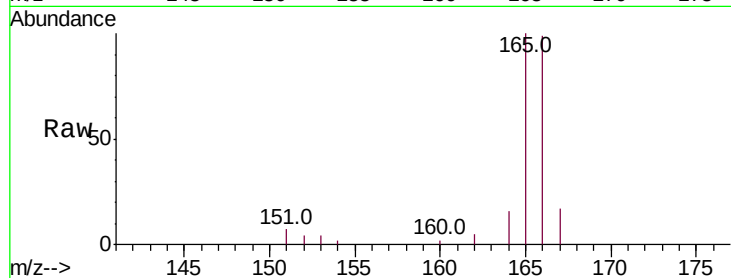
ClientSampleId :

A3YY3MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 5610  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 100.9 | 78.5  | 117.7 |
| 167       | 17.6  | 11.6  | 17.4# |

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#11

Pentachlorophenol

Concen: 0.201 ng/ul

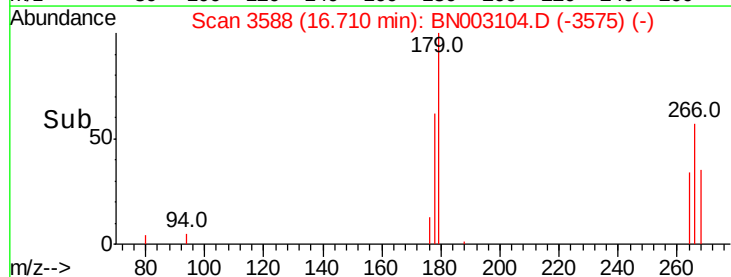
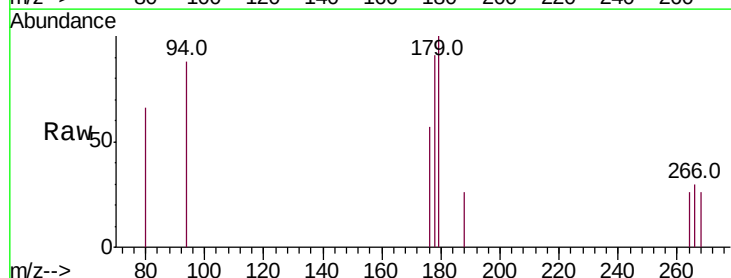
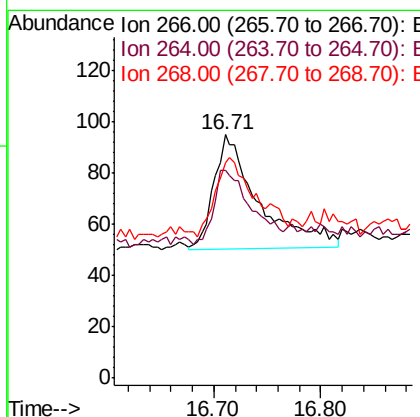
RT: 16.71 min Scan# 3588

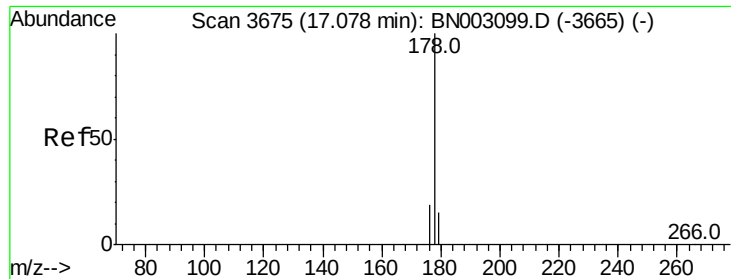
Delta R.T. -0.05 min

Lab File: BN003104.D

Acq: 11 Oct 2018 15:55

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 130  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 54.6  | 52.5  | 78.7 |
| 268       | 66.2  | 48.6  | 72.8 |





#12

Phenanthrene

Concen: 6.762 ng/ul

RT: 17.06 min Scan# 3670

Delta R.T. -0.02 min

Lab File: BN003104.D

Acq: 11 Oct 2018 15:55

Instrument :

BNA\_N

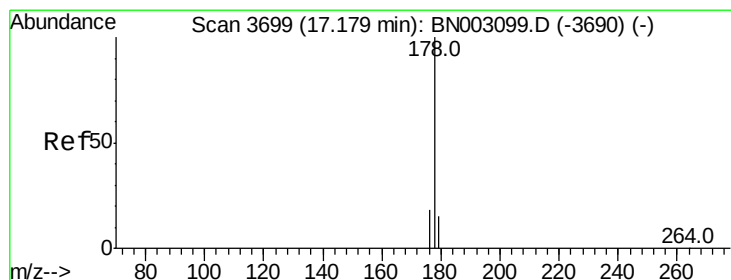
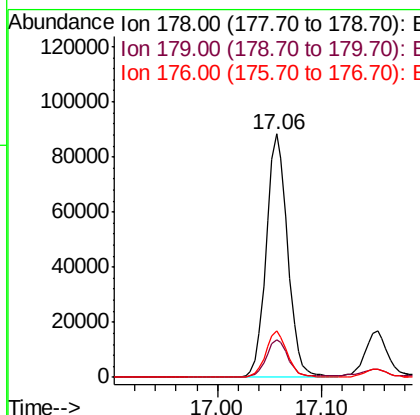
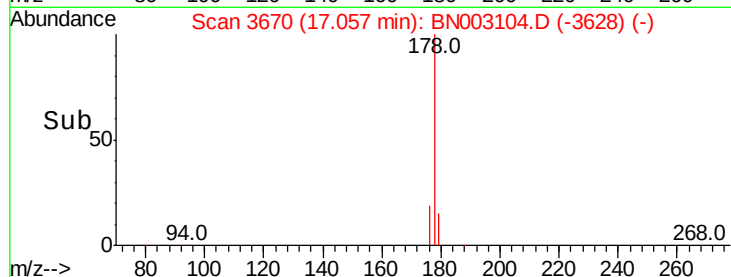
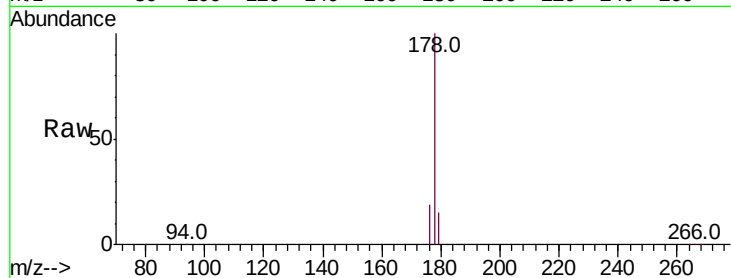
ClientSampleId :

A3YY3MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 125343 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.5  | 12.9  | 19.3   |
| 176       | 18.9  | 15.4  | 23.2   |

Manual Integrations  
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#13

Anthracene

Concen: 1.437 ng/ul

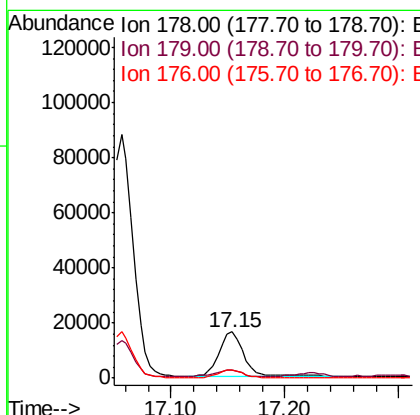
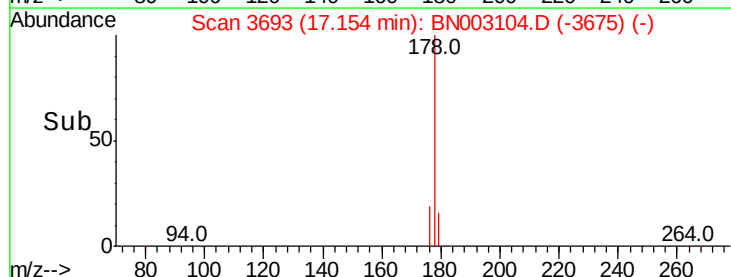
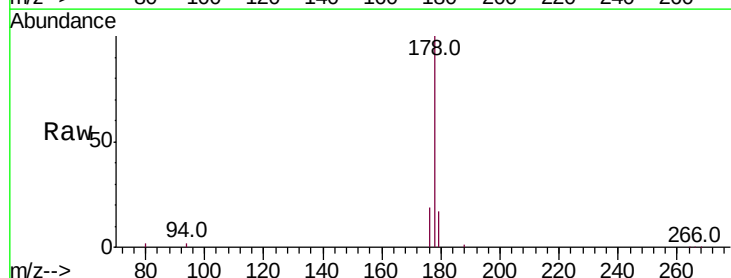
RT: 17.15 min Scan# 3693

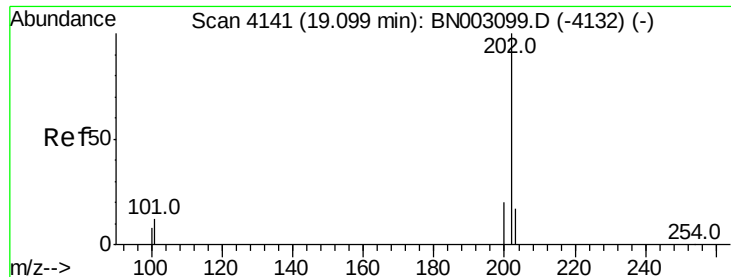
Delta R.T. -0.03 min

Lab File: BN003104.D

Acq: 11 Oct 2018 15:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 25170 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 17.1  | 13.0  | 19.6  |
| 176       | 18.9  | 15.3  | 22.9  |





#15

Fluoranthene

Concen: 9.309 ng/ul

RT: 19.08 min Scan# 4137

Delta R.T. -0.02 min

Lab File: BN003104.D

Acq: 11 Oct 2018 15:55

Instrument :

BNA\_N

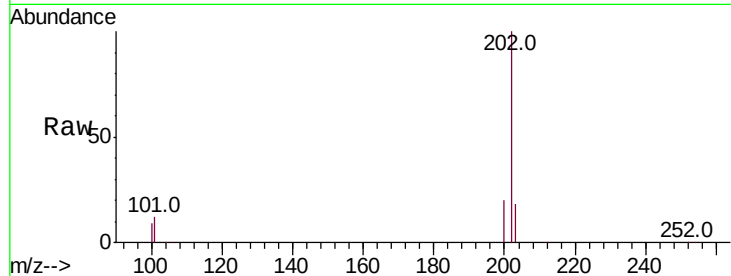
ClientSampleId :

A3YY3MS

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 12.2  | 0.0        | 32.3       |
| 100     | 9.1   | 0.0        | 29.1       |

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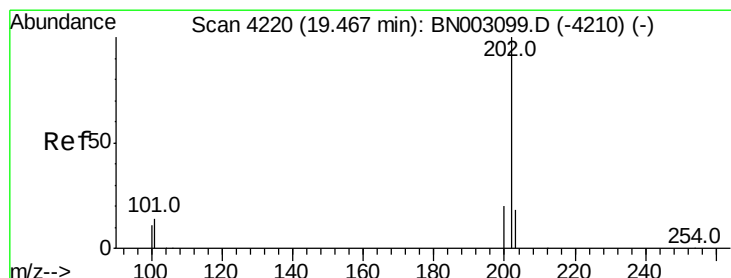
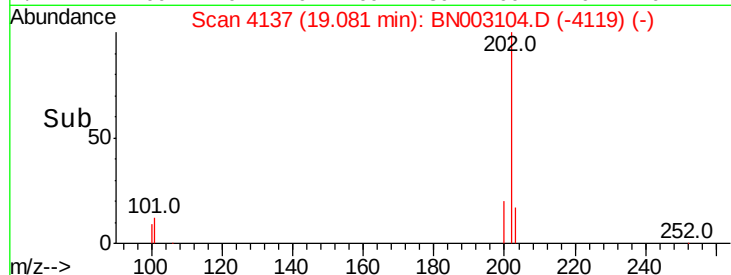
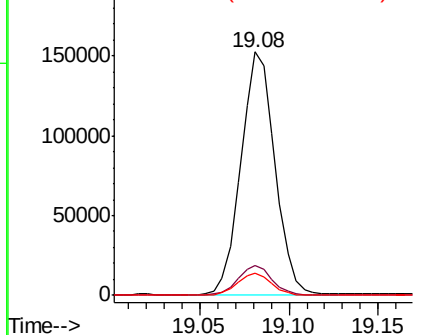


Abundance

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



#17

Pyrene

Concen: 13.960 ng/ul

RT: 19.45 min Scan# 4216

Delta R.T. -0.02 min

Lab File: BN003104.D

Acq: 11 Oct 2018 15:55

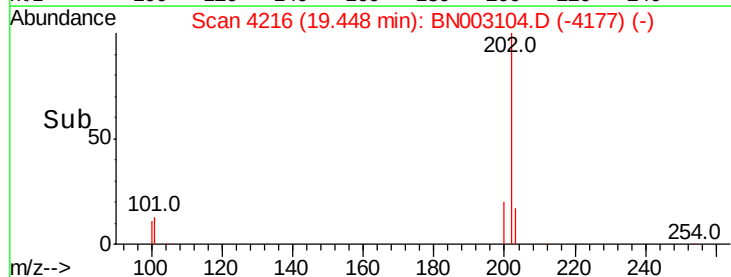
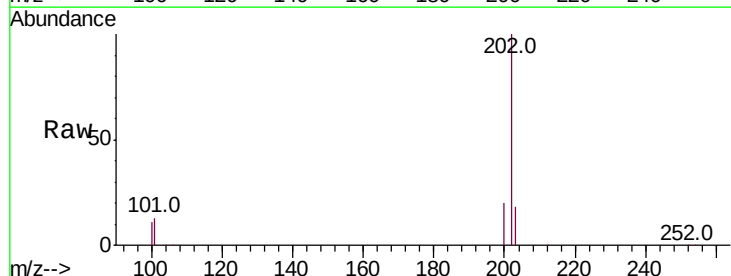
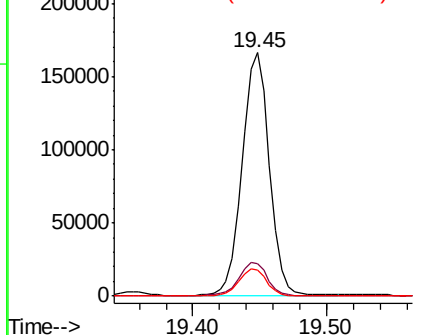
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 13.5  | 11.9       | 17.9       |
| 100     | 10.8  | 9.9        | 14.9       |

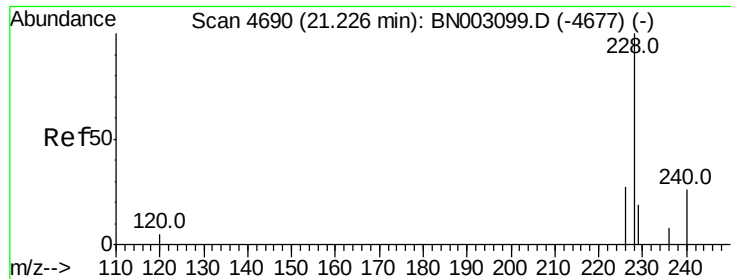
Abundance

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





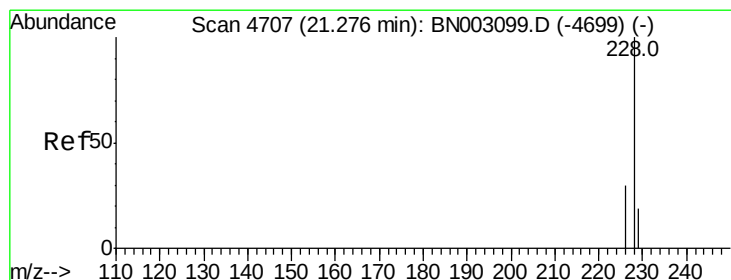
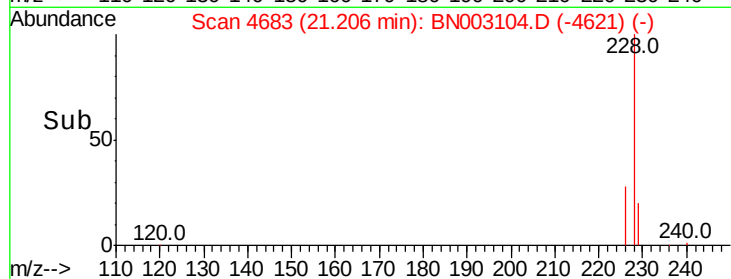
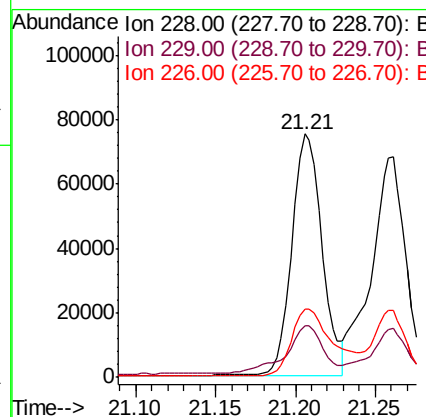
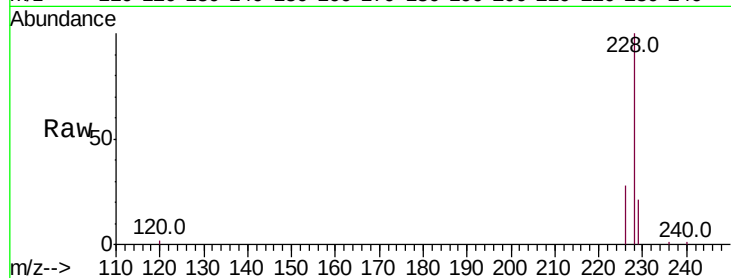
#18  
Benzo(a)anthracene  
Concen: 7.116 ng/ul  
RT: 21.21 min Scan# 4683  
Delta R.T. -0.02 min  
Lab File: BN003104.D  
Acq: 11 Oct 2018 15:55

Instrument :  
BNA\_N  
ClientSampleId :  
A3YY3MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.3  | 16.2  | 24.2  |
| 226     | 28.1  | 22.3  | 33.5  |

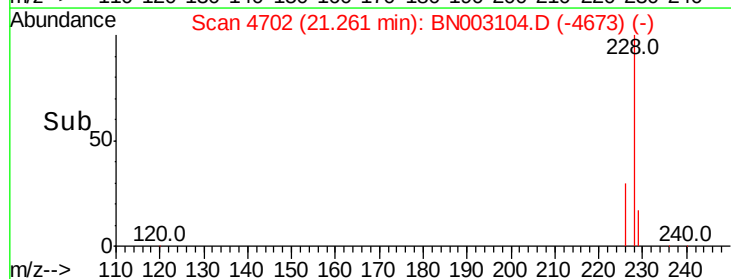
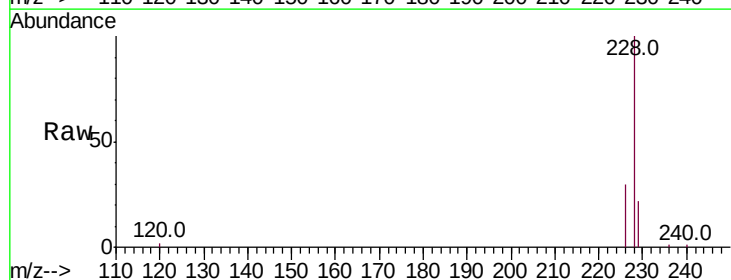
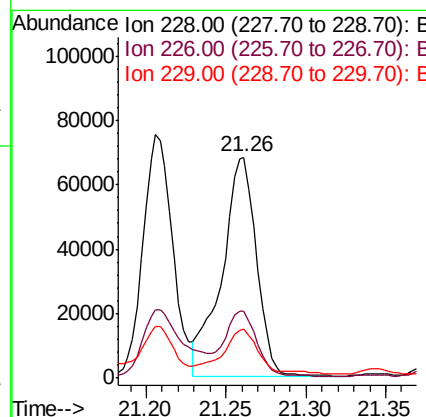
Manual Integrations  
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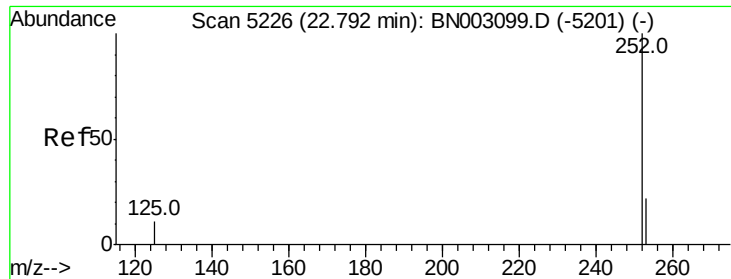


#19  
Chrysene  
Concen: 7.243 ng/ul  
RT: 21.26 min Scan# 4702  
Delta R.T. -0.01 min  
Lab File: BN003104.D  
Acq: 11 Oct 2018 15:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 24.2  | 36.4  |
| 229     | 22.1  | 16.7  | 25.1  |







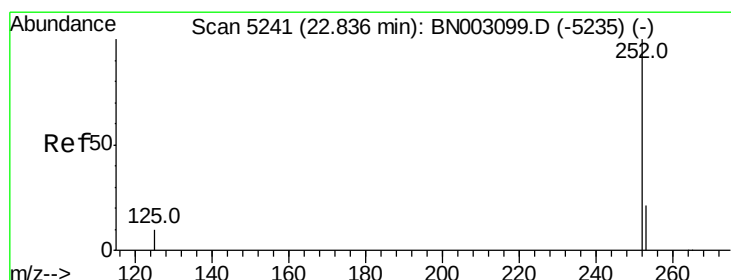
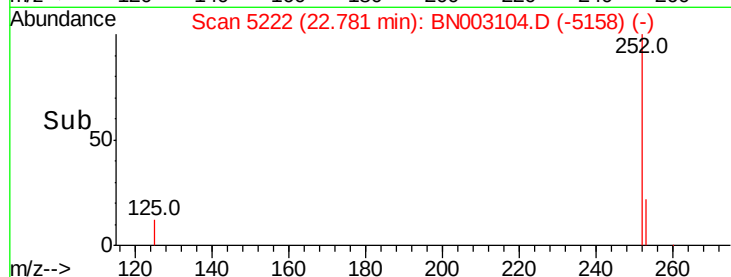
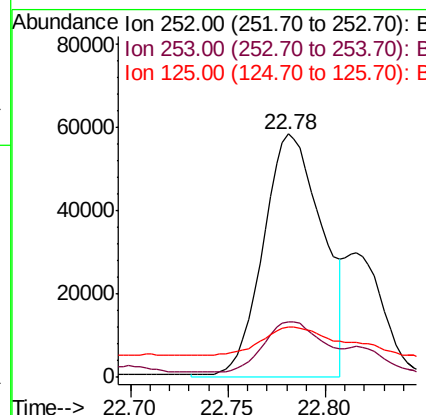
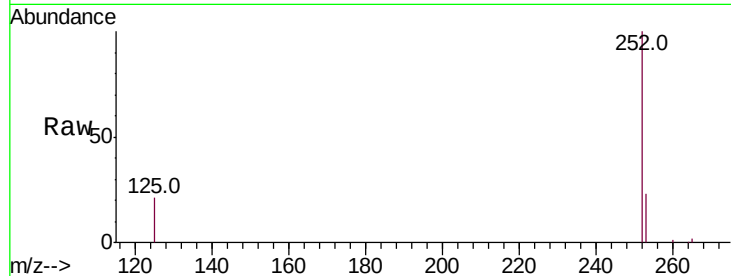
#21  
Benzo(b)fluoranthene  
Concen: 6.802 ng/ul m  
RT: 22.78 min Scan# 5222  
Delta R.T. -0.01 min  
Lab File: BN003104.D  
Acq: 11 Oct 2018 15:55

Instrument :  
BNA\_N  
ClientSampleId :  
A3YY3MS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 23.0  | 0.0        | 53.2  |
| 125     | 20.7  | 0.0        | 34.2  |

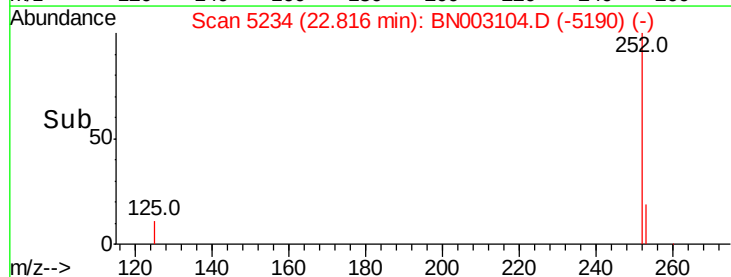
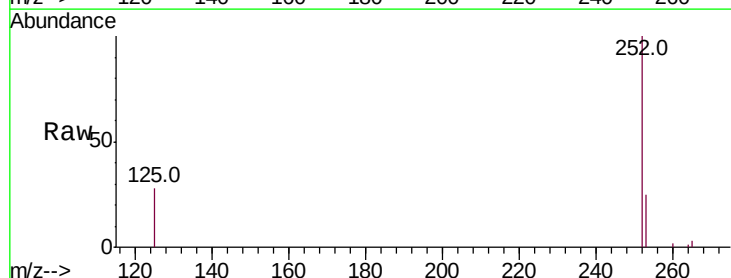
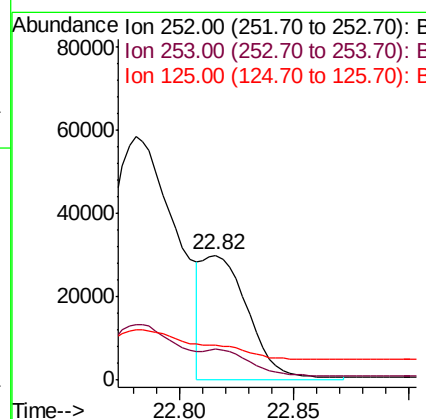
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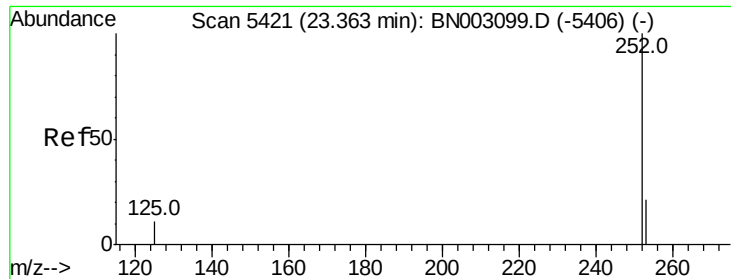
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#22  
Benzo(k)fluoranthene  
Concen: 2.274 ng/ul m  
RT: 22.82 min Scan# 5234  
Delta R.T. -0.02 min  
Lab File: BN003104.D  
Acq: 11 Oct 2018 15:55

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 24.5  | 21.3       | 31.9  |
| 125     | 28.0  | 14.1       | 21.1# |





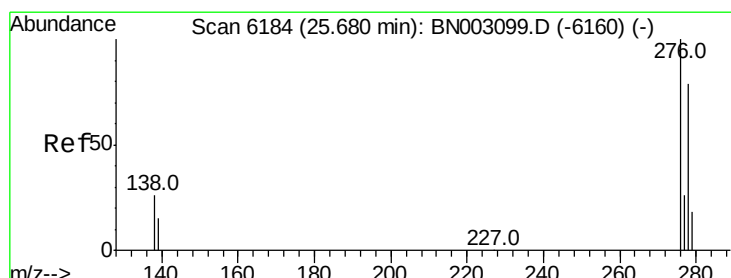
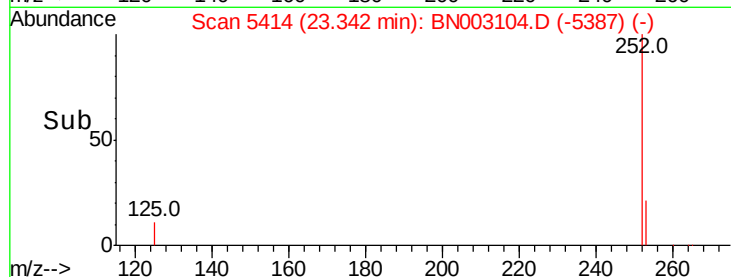
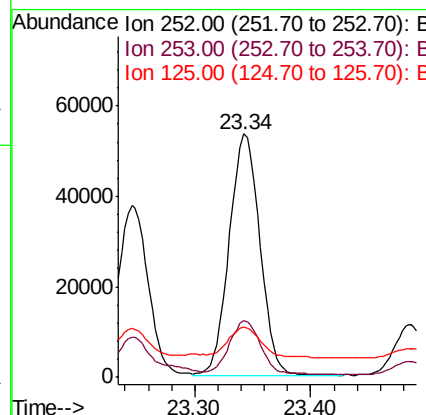
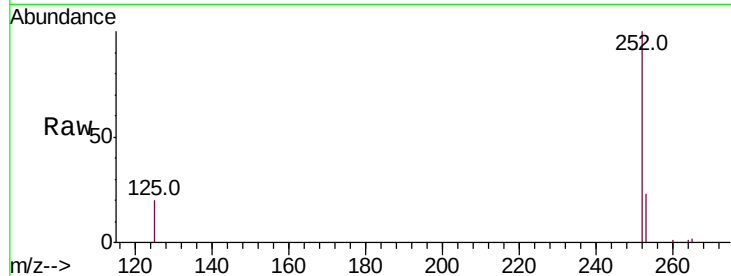
#23  
Benzo(a)pyrene  
Concen: 5.998 ng/ul  
RT: 23.34 min Scan# 5414  
Delta R.T. -0.02 min  
Lab File: BN003104.D  
Acq: 11 Oct 2018 15:55

Instrument :  
BNA\_N  
ClientSampleId :  
A3YY3MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 23.1  | 34.7  |
| 125     | 20.4  | 16.9  | 25.3  |

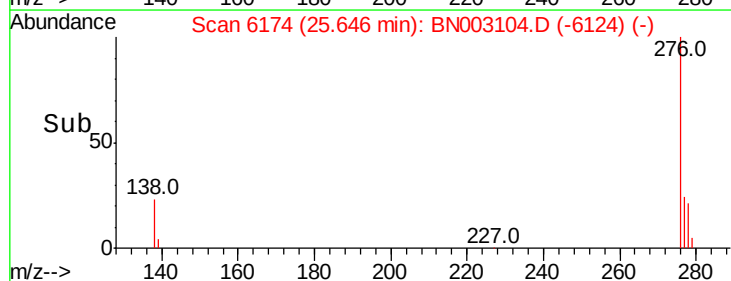
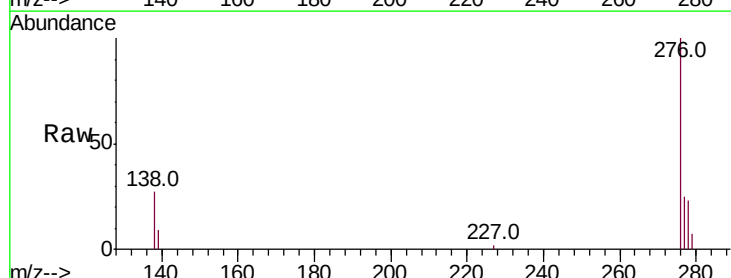
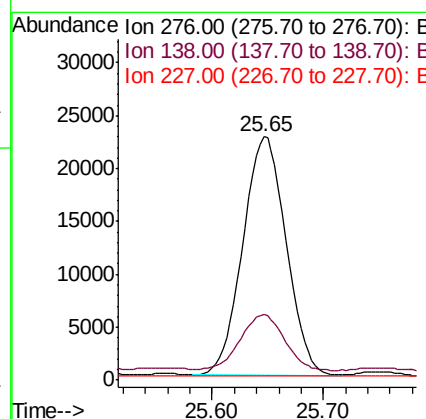
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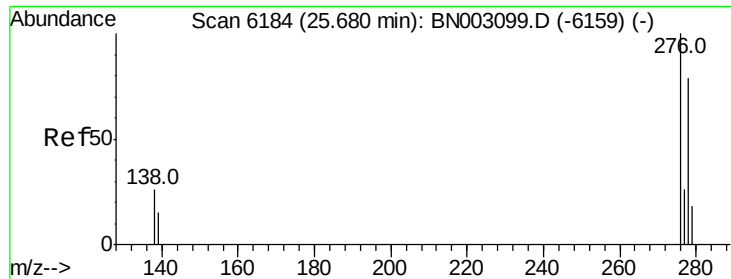
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#24  
Indeno(1,2,3-cd)pyrene  
Concen: 3.298 ng/ul  
RT: 25.65 min Scan# 6174  
Delta R.T. -0.03 min  
Lab File: BN003104.D  
Acq: 11 Oct 2018 15:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.9  | 21.5  | 32.3  |
| 227     | 0.2   | 0.3   | 0.5#  |





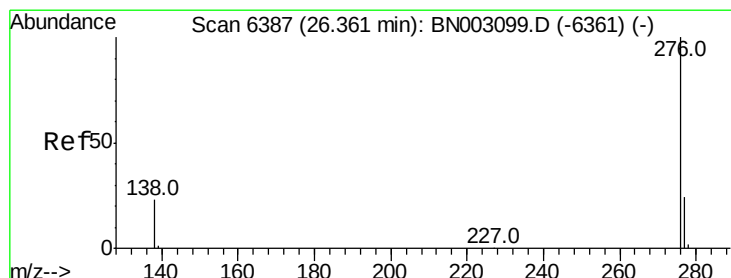
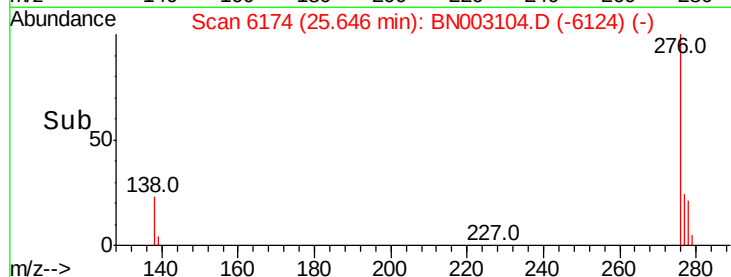
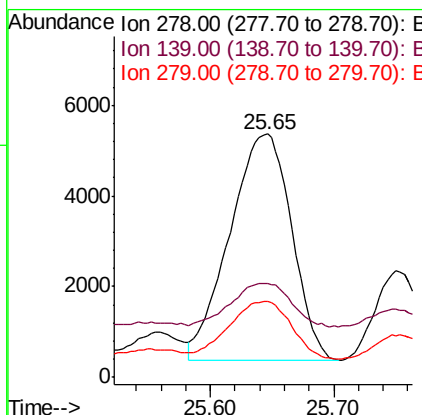
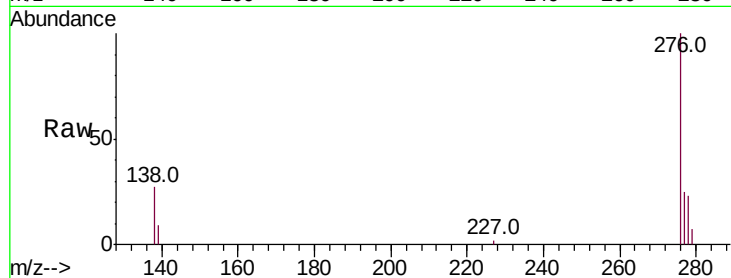
#25  
Dibenzo(a,h)anthracene  
Concen: 1.166 ng/ul  
RT: 25.65 min Scan# 6174  
Delta R.T. -0.03 min  
Lab File: BN003104.D  
Acq: 11 Oct 2018 15:55

Instrument :  
BNA\_N  
ClientSampleId :  
A3YY3MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 38.7  | 20.2  | 30.4# |
| 279     | 31.3  | 23.8  | 35.8  |

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#26  
Benzo(g,h,i)perylene  
Concen: 3.877 ng/ul  
RT: 26.33 min Scan# 6377  
Delta R.T. -0.03 min  
Lab File: BN003104.D  
Acq: 11 Oct 2018 15:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.6  | 23.0  | 34.4  |
| 277     | 24.9  | 22.0  | 33.0  |

