

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN121918\  
 Data File : BN004122.D  
 Acq On : 19 Dec 2018 20:14  
 Operator : JU/SJ  
 Sample : J6297-12  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 F9E45

Manual Integrations  
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Quant Time: Dec 20 06:23:16 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN111918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 20 05:49:27 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.83  | 152  | 1312     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.63 | 136  | 6828     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.47 | 164  | 4226     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.21 | 188  | 11171m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.40 | 240  | 13097m   | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.72 | 264  | 11768m   | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.22 | 152  | 2263     | 0.22   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.24 | 212  | 7638m    | 0.23   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 12) Phenanthrene            | 17.26 | 178  | 2868     | 0.078  | ng/ul  | 94       |
| 13) Anthracene              | 17.35 | 178  | 2252m    | 0.075  | ng/ul  |          |
| 15) Fluoranthene            | 19.27 | 202  | 2129m    | 0.049  | ng/ul  |          |
| 17) Pyrene                  | 19.64 | 202  | 4595m    | 0.098  | ng/ul  |          |
| 18) Benzo(a)anthracene      | 21.39 | 228  | 1476     | 0.036  | ng/ul# | 55       |
| 19) Chrysene                | 21.44 | 228  | 2267     | 0.048  | ng/ul# | 70       |
| 21) Benzo(b)fluoranthene    | 23.02 | 252  | 2624m    | 0.054  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.62 | 252  | 1786     | 0.042  | ng/ul# | 24       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.08 | 276  | 2235     | 0.046  | ng/ul# | 96       |
| 26) Benzo(g,h,i)perylene    | 26.81 | 276  | 9881     | 0.235  | ng/ul# | 85       |

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

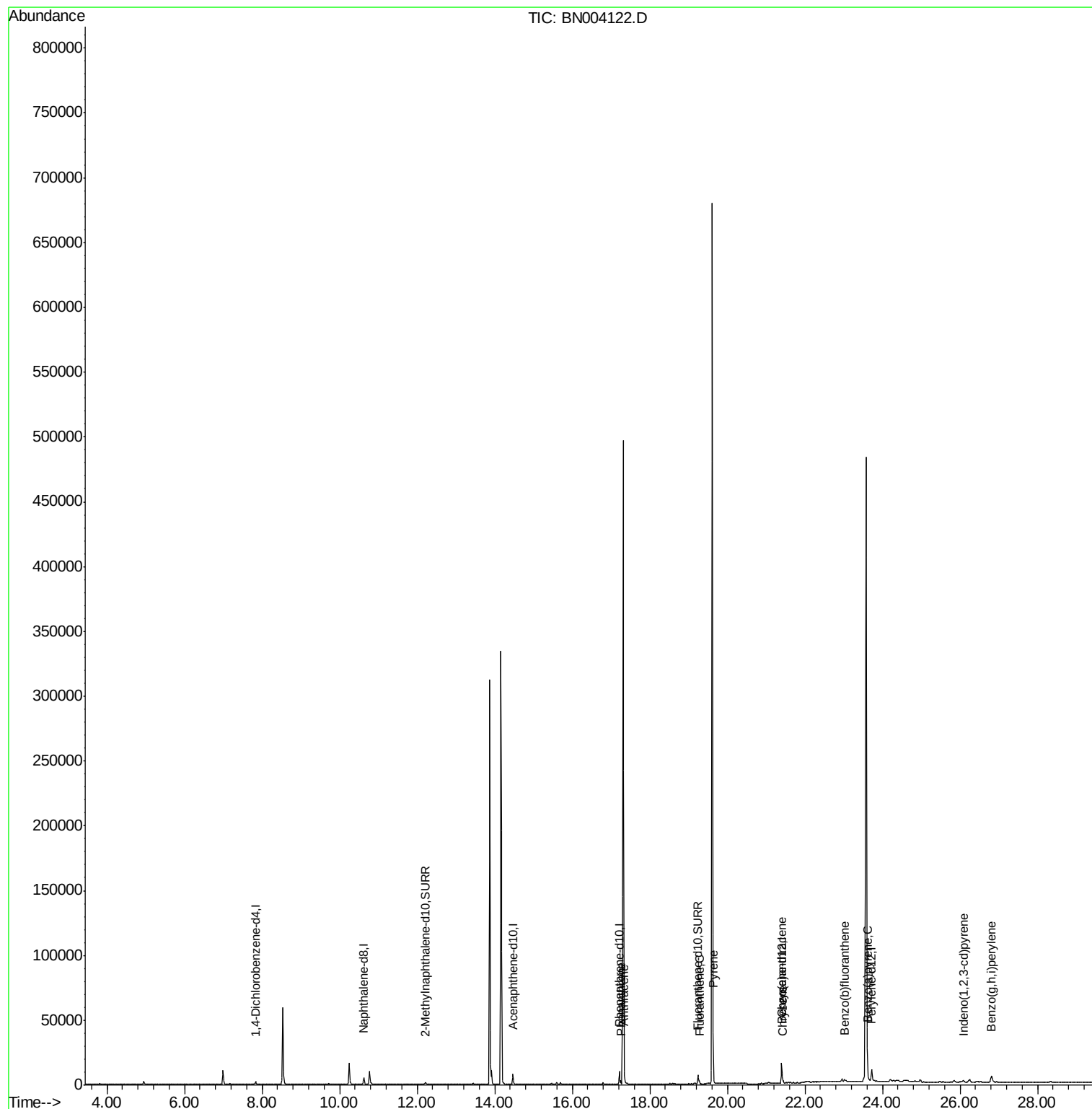
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN121918\  
Data File : BN004122.D  
Acq On : 19 Dec 2018 20:14  
Operator : JU/SJ  
Sample : J6297-12  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

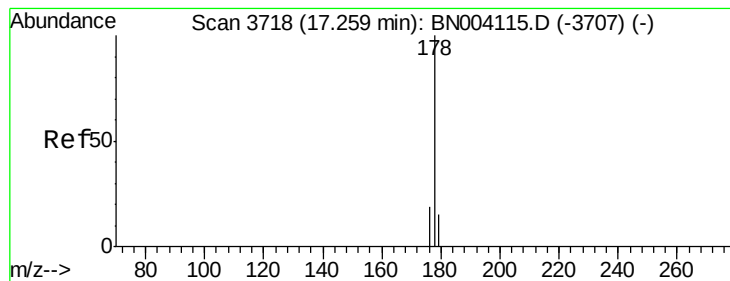
Instrument :  
BNA\_N  
ClientSampleId :  
F9E45

Quant Time: Dec 20 06:23:16 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN11918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 20 05:49:27 2018  
Response via : Initial Calibration

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#12

Phenanthrene

Concen: 0.078 ng/ul

RT: 17.26 min Scan# 3717

Delta R.T. -0.00 min

Lab File: BN004122.D

Acq: 19 Dec 2018 20:14

Instrument :

BNA\_N

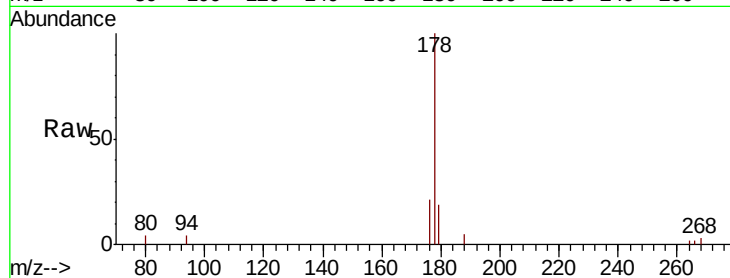
ClientSampleId :

F9E45

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 178   | Resp: | 2868  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 18.5  | 12.5  | 18.7  |
| 176      | 21.0  | 15.0  | 22.4  |

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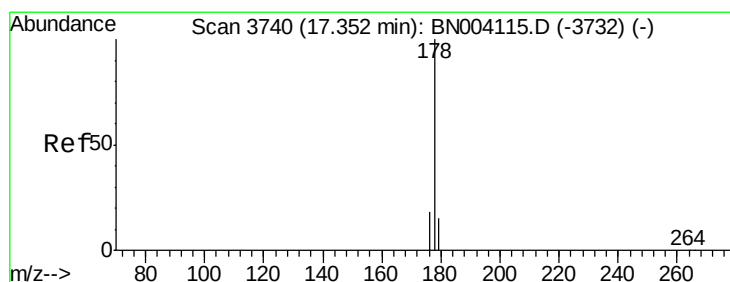
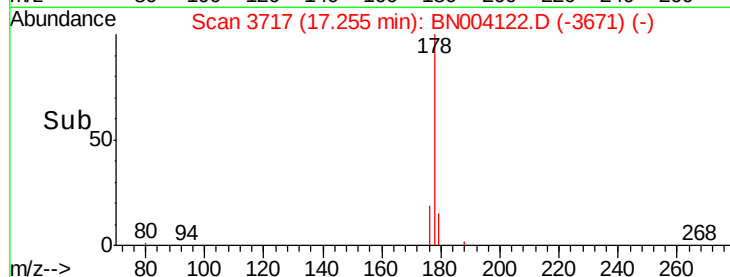
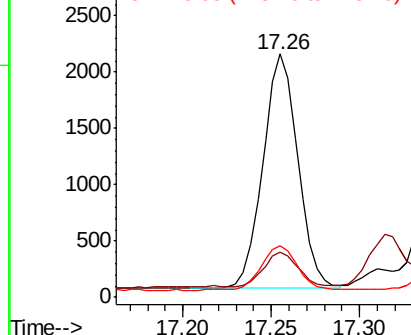


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#13

Anthracene

Concen: 0.075 ng/ul m

RT: 17.35 min Scan# 3739

Delta R.T. -0.00 min

Lab File: BN004122.D

Acq: 19 Dec 2018 20:14

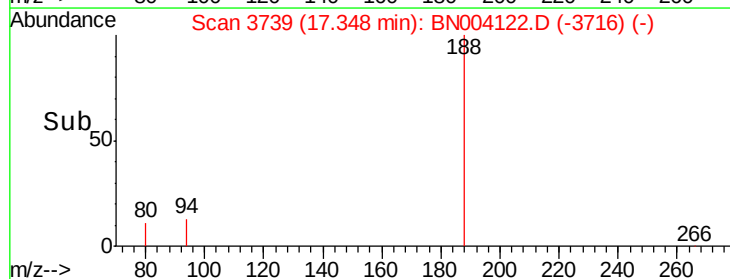
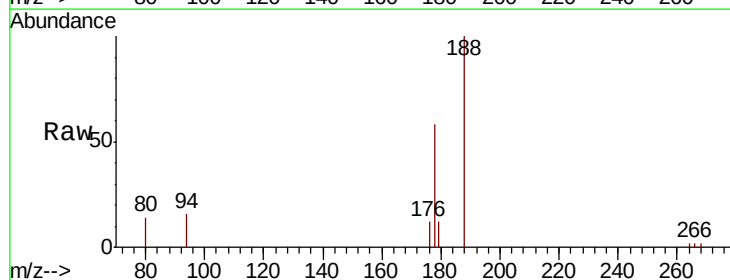
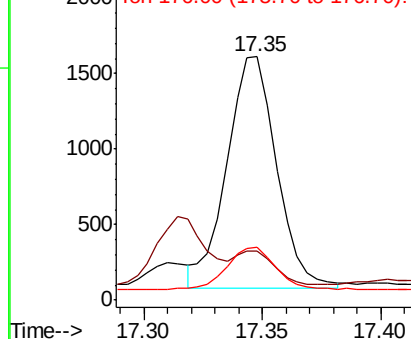
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 2252  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 20.2  | 12.3  | 18.5# |
| 176      | 21.5  | 14.8  | 22.2  |

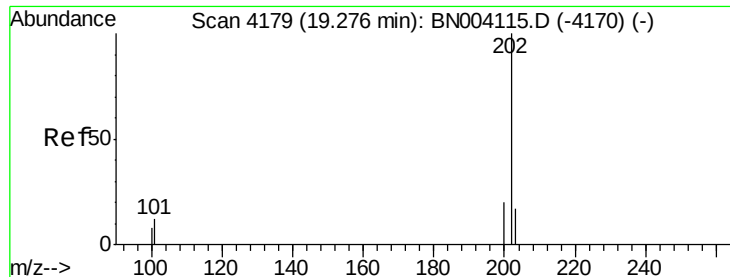
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





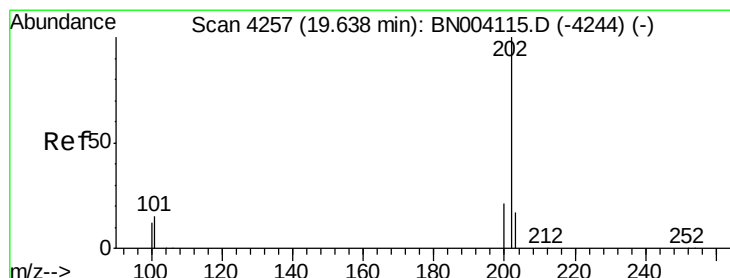
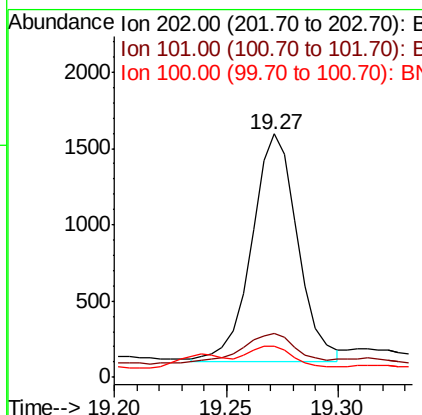
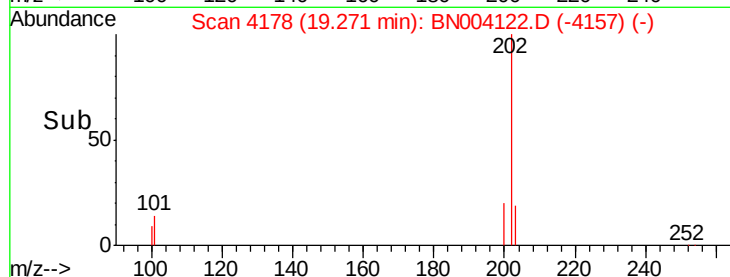
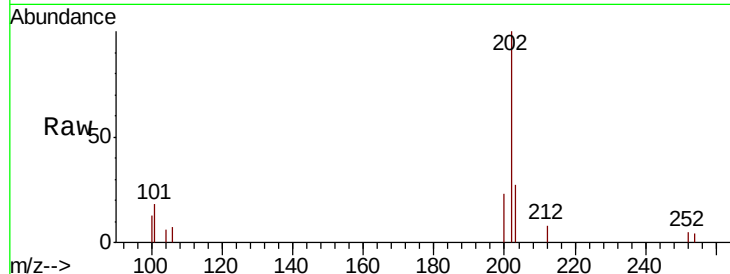
#15  
Fluoranthene  
Concen: 0.049 ng/ul m  
RT: 19.27 min Scan# 4178  
Delta R.T. -0.00 min  
Lab File: BN004122.D  
Acq: 19 Dec 2018 20:14

Instrument :  
BNA\_N  
ClientSampleId :  
F9E45

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 202   | Resp: | 2129 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 18.0  | 0.0   | 30.7 |
| 100       | 12.9  | 0.0   | 28.1 |

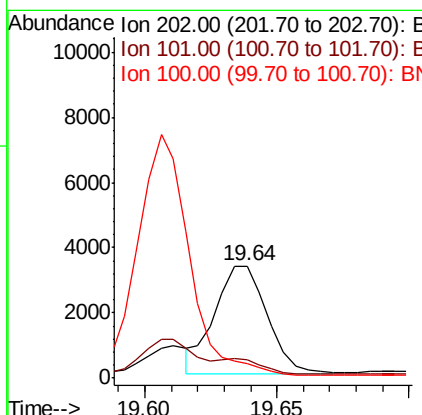
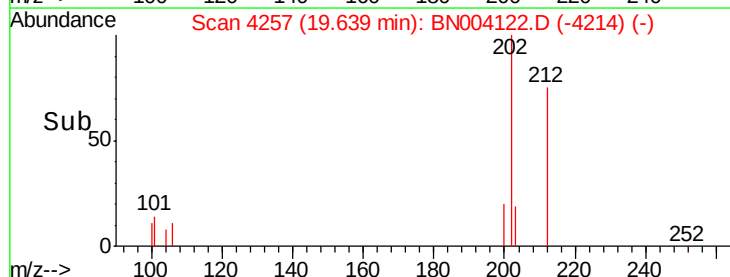
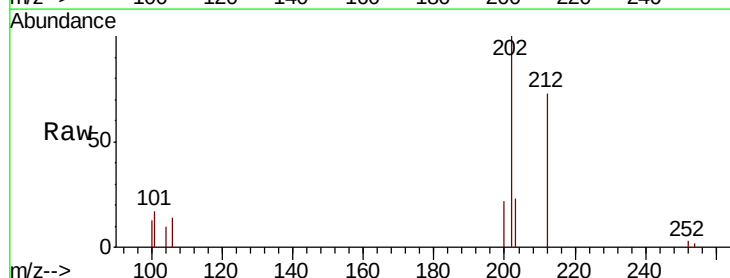
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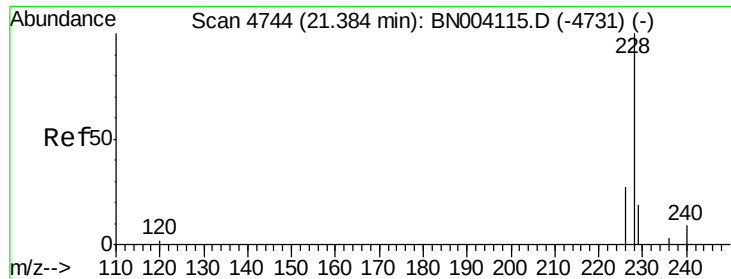
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#17  
Pyrene  
Concen: 0.098 ng/ul m  
RT: 19.64 min Scan# 4257  
Delta R.T. 0.00 min  
Lab File: BN004122.D  
Acq: 19 Dec 2018 20:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 4595  |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 16.6  | 10.3  | 15.5# |
| 100       | 12.7  | 8.5   | 12.7  |





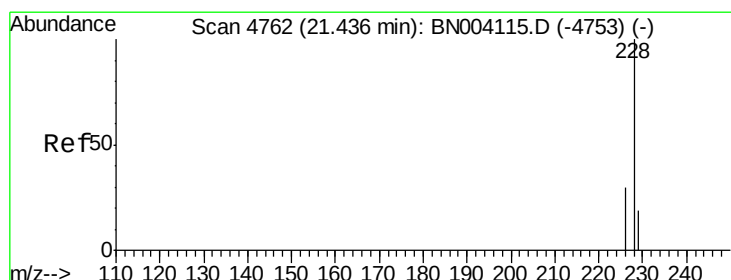
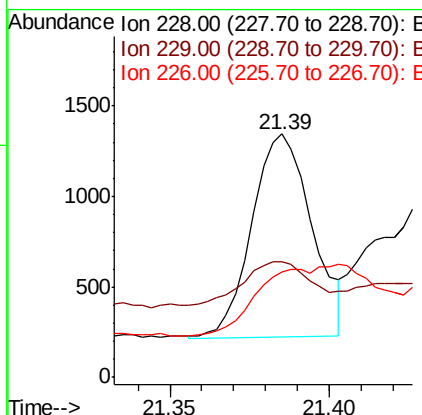
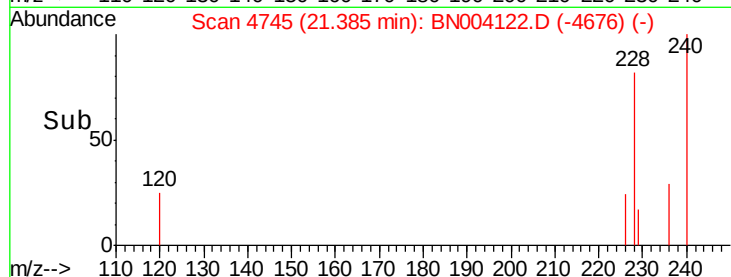
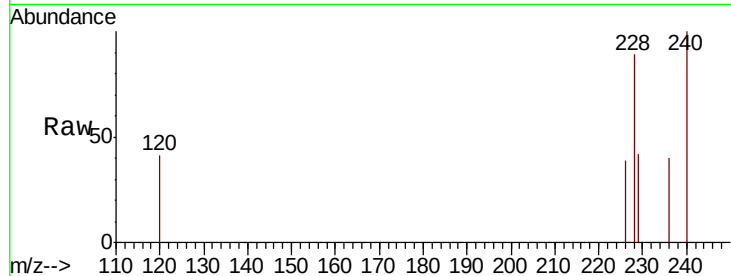
#18  
Benzo(a)anthracene  
Concen: 0.036 ng/ul  
RT: 21.39 min Scan# 4745  
Delta R.T. 0.00 min  
Lab File: BN004122.D  
Acq: 19 Dec 2018 20:14

Instrument :  
BNA\_N  
ClientSampled :  
F9E45

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 47.4  | 15.6  | 23.4# |
| 226     | 43.5  | 21.1  | 31.7# |

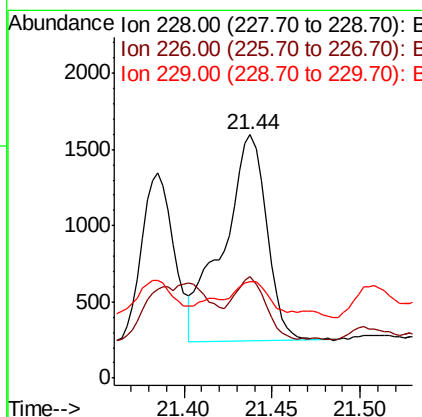
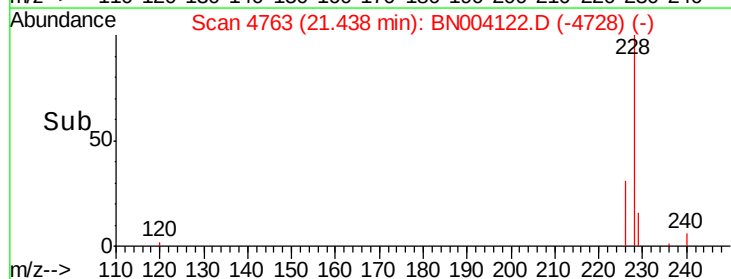
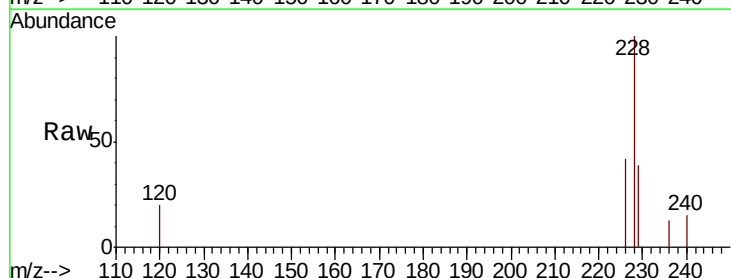
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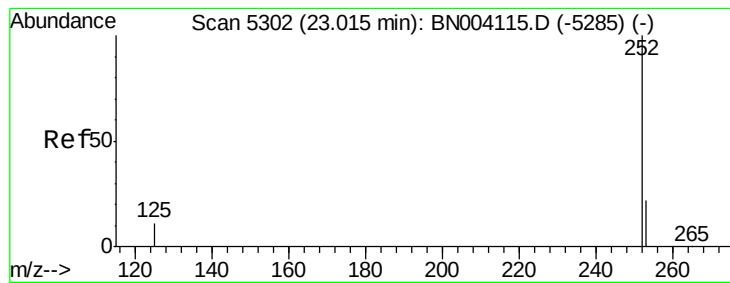
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#19  
Chrysene  
Concen: 0.048 ng/ul  
RT: 21.44 min Scan# 4763  
Delta R.T. 0.00 min  
Lab File: BN004122.D  
Acq: 19 Dec 2018 20:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 41.6  | 24.0  | 36.0# |
| 229     | 39.4  | 15.7  | 23.5# |





#21

Benzo(b)fluoranthene

Concen: 0.054 ng/ul m

RT: 23.02 min Scan# 5304

Delta R.T. 0.00 min

Lab File: BN004122.D

Acq: 19 Dec 2018 20:14

Instrument :

BNA\_N

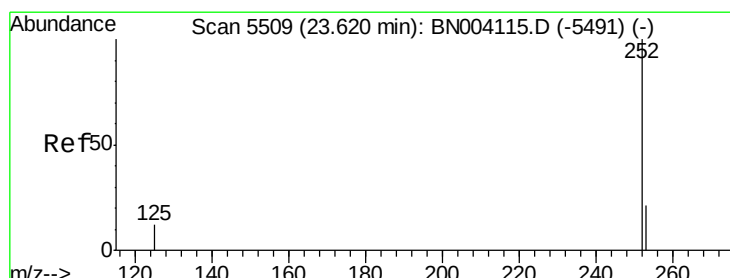
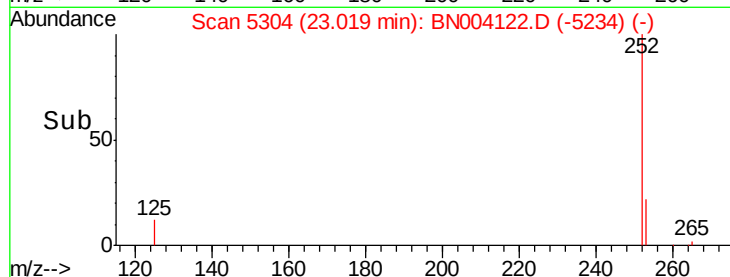
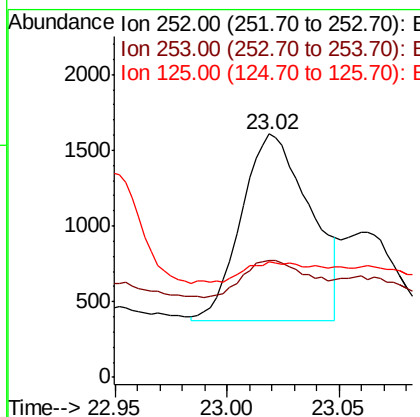
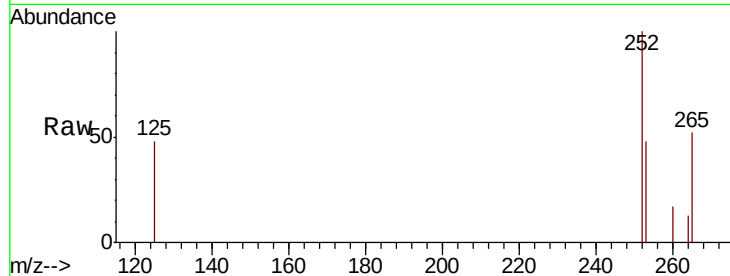
ClientSampleId :

F9E45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 2624  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 47.8  | 0.0   | 46.0# |
| 125       | 47.6  | 0.0   | 22.4# |

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#23

Benzo(a)pyrene

Concen: 0.042 ng/ul

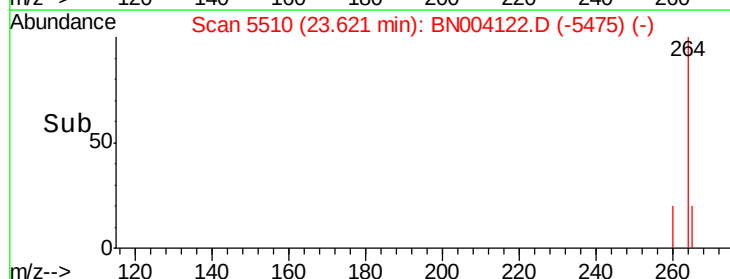
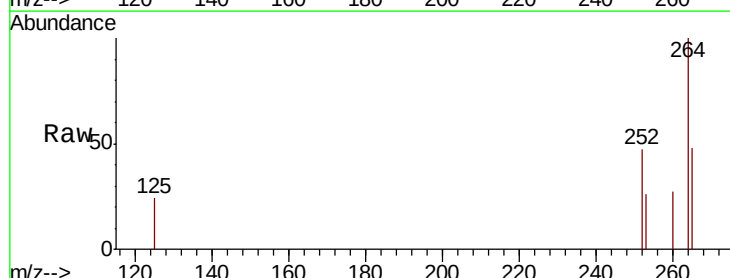
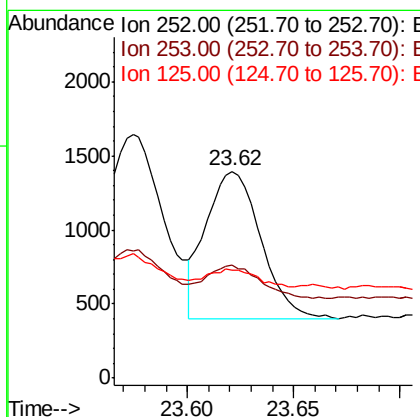
RT: 23.62 min Scan# 5510

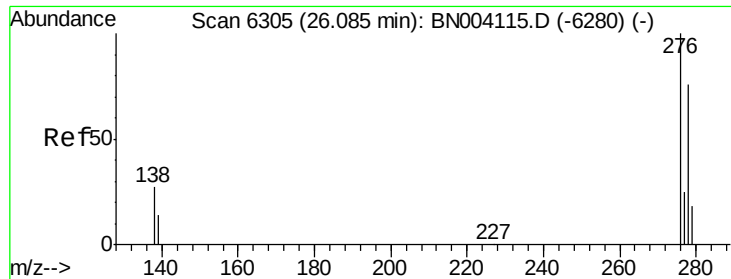
Delta R.T. 0.00 min

Lab File: BN004122.D

Acq: 19 Dec 2018 20:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 1786  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 54.7  | 19.0  | 28.4# |
| 125       | 52.1  | 10.2  | 15.4# |





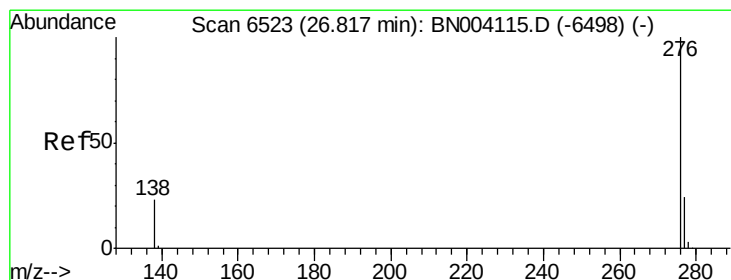
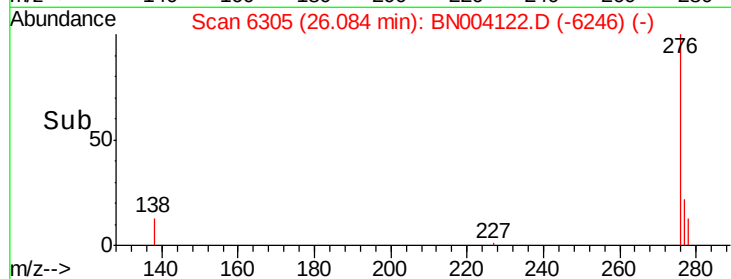
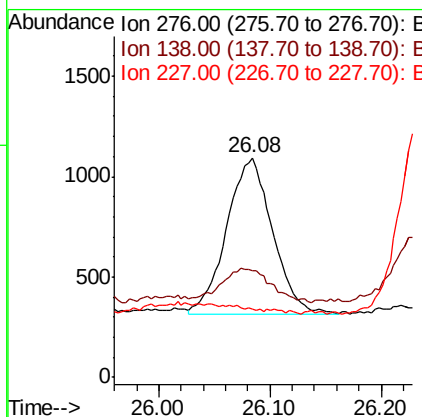
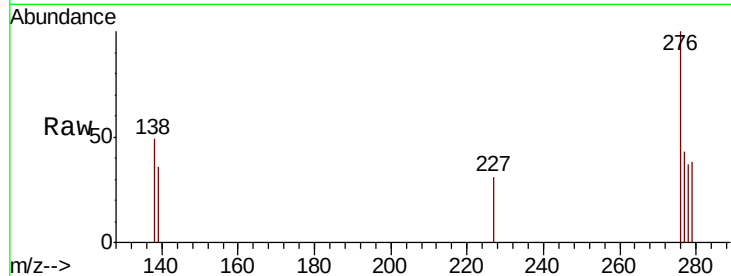
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.046 ng/ul  
 RT: 26.08 min Scan# 6305  
 Delta R.T. -0.00 min  
 Lab File: BN004122.D  
 Acq: 19 Dec 2018 20:14

Instrument :  
 BNA\_N  
 ClientSampled :  
 F9E45

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.4  | 20.3  | 30.5  |
| 227     | 0.0   | 0.2   | 0.2   |

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#26  
 Benzo(g,h,i)perylene  
 Concen: 0.235 ng/ul  
 RT: 26.81 min Scan# 6522  
 Delta R.T. -0.00 min  
 Lab File: BN004122.D  
 Acq: 19 Dec 2018 20:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 30.9  | 17.7  | 26.5  |
| 277     | 30.0  | 19.3  | 28.9  |

