

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101419\  
 Data File : BN008173.D  
 Acq On : 15 Oct 2019 15:03  
 Operator : JU  
 Sample : K5175-05  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEP85

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Quant Time: Oct 15 17:48:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 15 15:13:35 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 2117     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.38 | 136  | 10442    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.25 | 164  | 6841     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.00 | 188  | 15763m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.20 | 240  | 16018m   | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.38 | 264  | 16611    | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.98 | 152  | 6531     | 0.37   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.03 | 212  | 21331m   | 0.39   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 12) Phenanthrene            | 17.04 | 178  | 6412     | 0.139  | ng/ul  | 98       |
| 13) Anthracene              | 17.13 | 178  | 1281m    | 0.032  | ng/ul  |          |
| 15) Fluoranthene            | 19.06 | 202  | 16617m   | 0.273  | ng/ul  |          |
| 17) Pyrene                  | 19.43 | 202  | 13973m   | 0.219  | ng/ul  |          |
| 18) Benzo(a)anthracene      | 21.18 | 228  | 8621     | 0.148  | ng/ul  | 96       |
| 19) Chrysene                | 21.24 | 228  | 8913     | 0.125  | ng/ul  | 96       |
| 21) Benzo(b)fluoranthene    | 22.74 | 252  | 10394m   | 0.192  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.77 | 252  | 4392m    | 0.072  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.29 | 252  | 6602     | 0.116  | ng/ul# | 73       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.55 | 276  | 4193     | 0.063  | ng/ul# | 96       |
| 26) Benzo(g,h,i)perylene    | 26.21 | 276  | 3312     | 0.054  | ng/ul# | 79       |

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

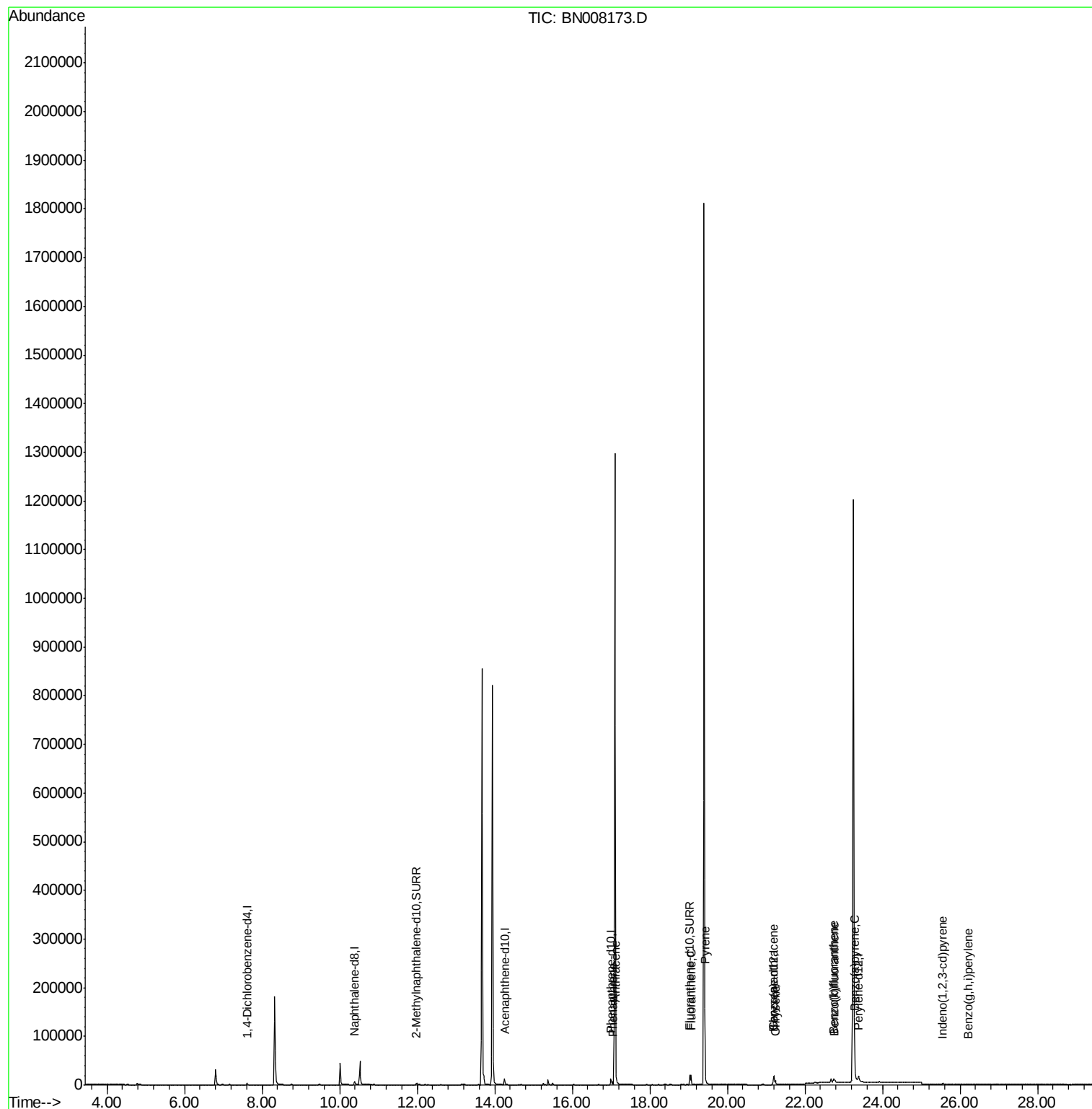
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101419\  
Data File : BN008173.D  
Acq On : 15 Oct 2019 15:03  
Operator : JU  
Sample : K5175-05  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

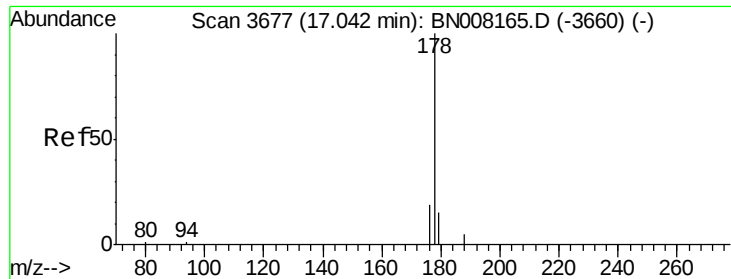
Instrument :  
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Quant Time: Oct 15 17:48:01 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M  
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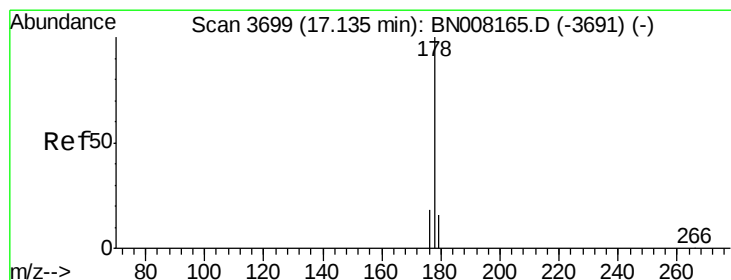
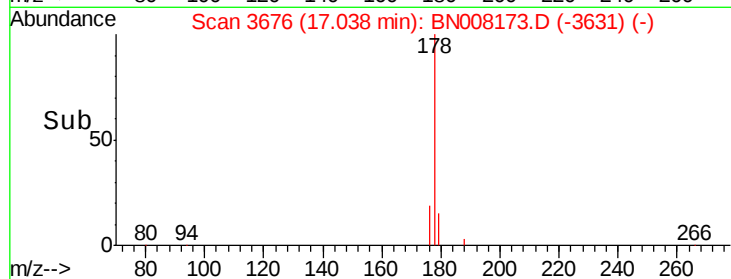
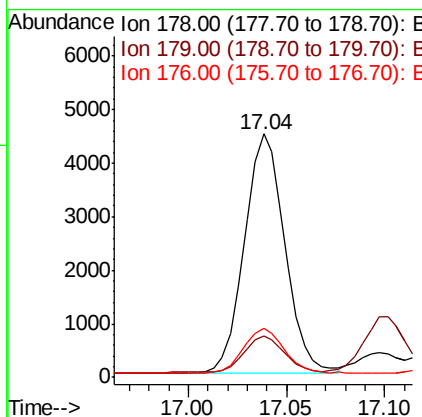
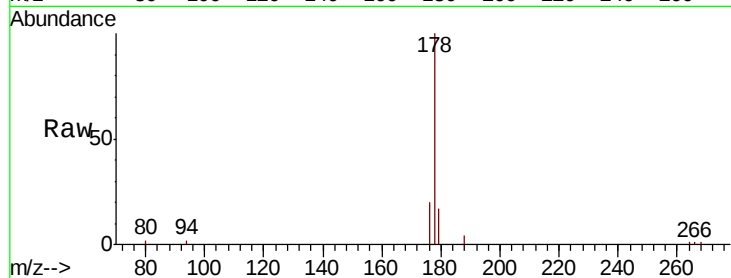
#12  
Phenanthrene  
Concen: 0.139 ng/ul  
RT: 17.04 min Scan# 3676  
Delta R.T. -0.01 min  
Lab File: BN008173.D  
Acq: 15 Oct 2019 15:03

Instrument :  
BNA\_N  
ClientSampleId :  
BEP85

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.8  | 12.8  | 19.2  |
| 176     | 20.0  | 15.4  | 23.2  |

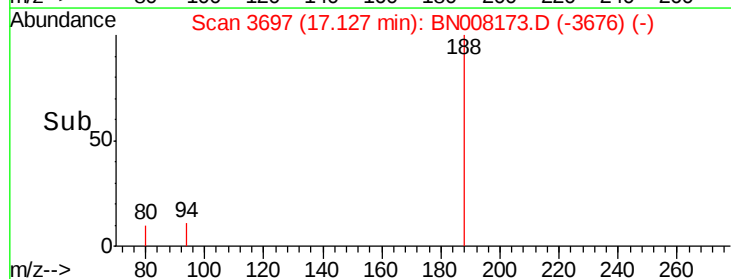
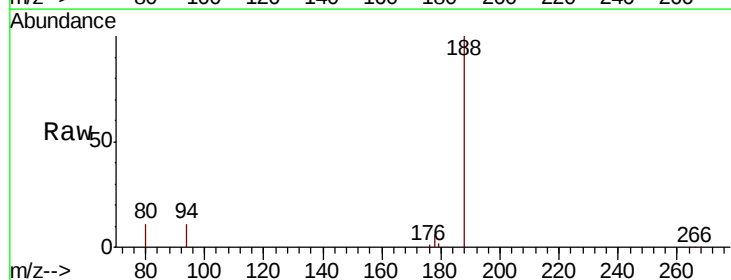
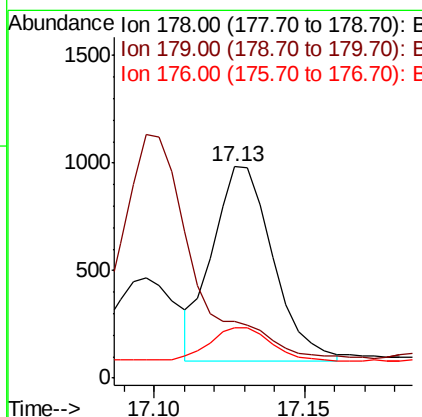
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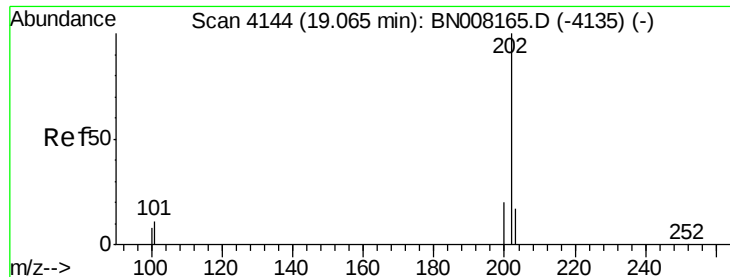
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#13  
Anthracene  
Concen: 0.032 ng/ul m  
RT: 17.13 min Scan# 3697  
Delta R.T. -0.01 min  
Lab File: BN008173.D  
Acq: 15 Oct 2019 15:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 27.0  | 13.0  | 19.6# |
| 176     | 23.9  | 15.0  | 22.6# |





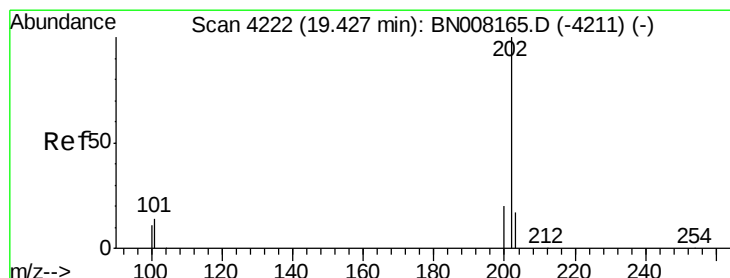
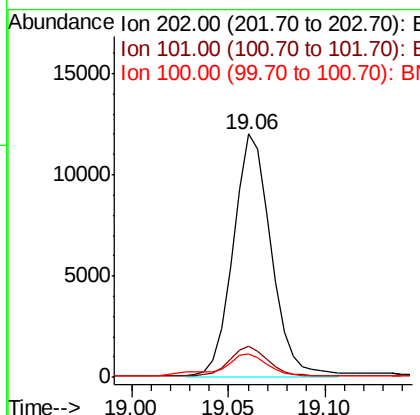
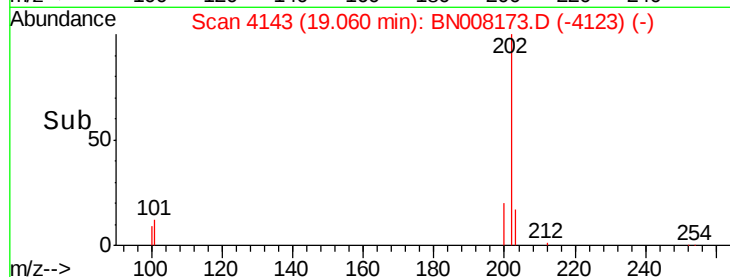
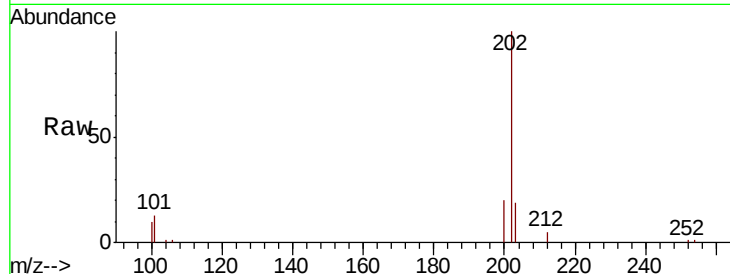
#15  
**Fluoranthene**  
 Concen: 0.273 ng/ul m  
 RT: 19.06 min Scan# 4143  
 Delta R.T. -0.01 min  
 Lab File: BN008173.D  
 Acq: 15 Oct 2019 15:03

Instrument :  
 BNA\_N  
 ClientSampleId :  
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| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 16617 |       |       |
| 101     | 12.6  | 0.0   | 31.2  |       |
| 100     | 9.7   | 0.0   | 28.5  |       |

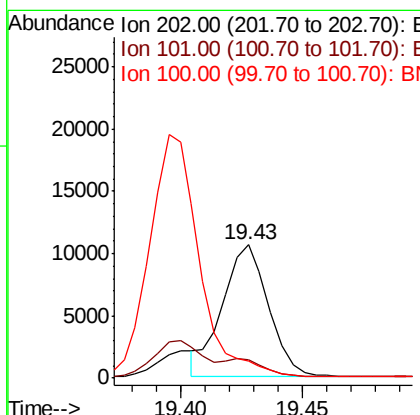
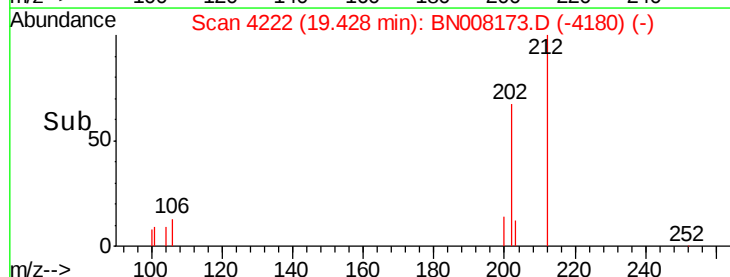
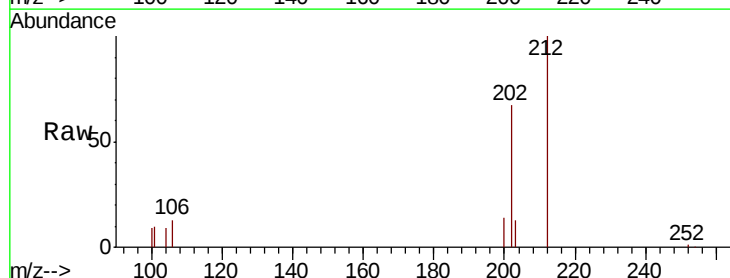
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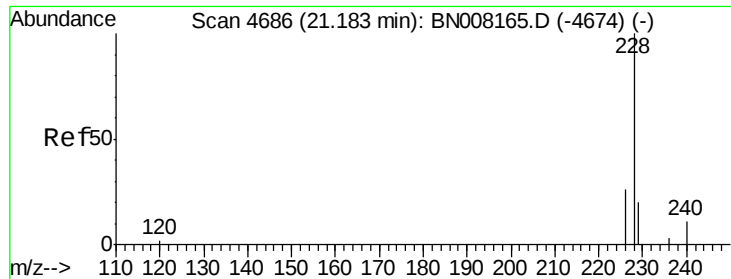
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#17  
**Pyrene**  
 Concen: 0.219 ng/ul m  
 RT: 19.43 min Scan# 4222  
 Delta R.T. -0.00 min  
 Lab File: BN008173.D  
 Acq: 15 Oct 2019 15:03

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 13973 |       |       |
| 101     | 14.2  | 10.9  | 16.3  |       |
| 100     | 12.9  | 8.7   | 13.1  |       |





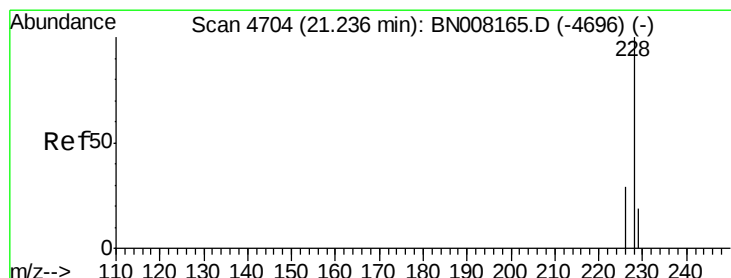
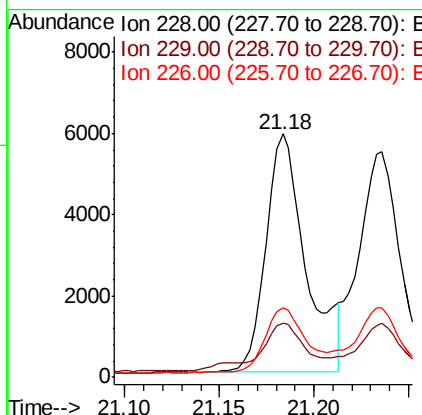
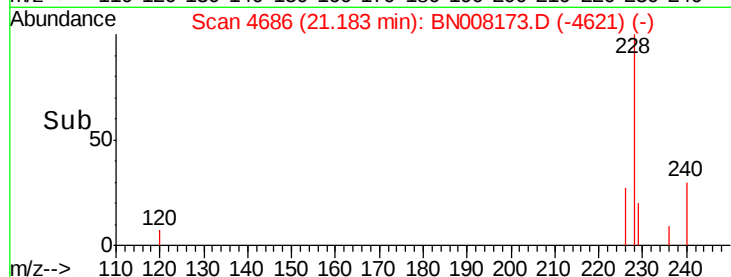
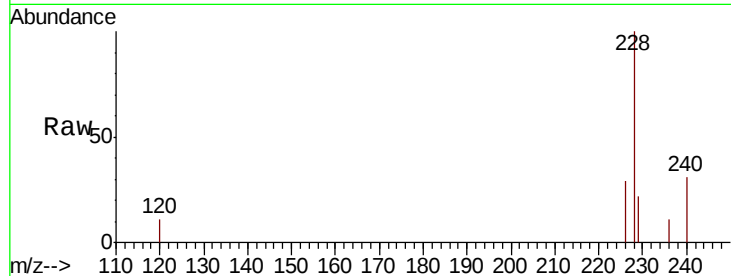
#18  
Benzo(a)anthracene  
Concen: 0.148 ng/ul  
RT: 21.18 min Scan# 4686  
Delta R.T. -0.01 min  
Lab File: BN008173.D  
Acq: 15 Oct 2019 15:03

Instrument :  
BNA\_N  
ClientSampleId :  
BEP85

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.5  | 16.2  | 24.2  |
| 226     | 28.6  | 21.4  | 32.0  |

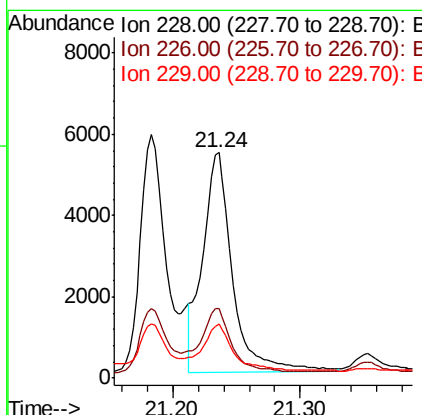
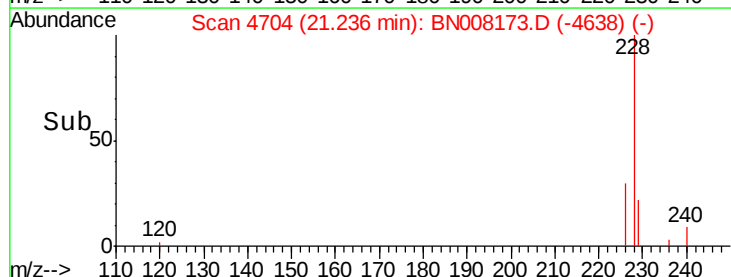
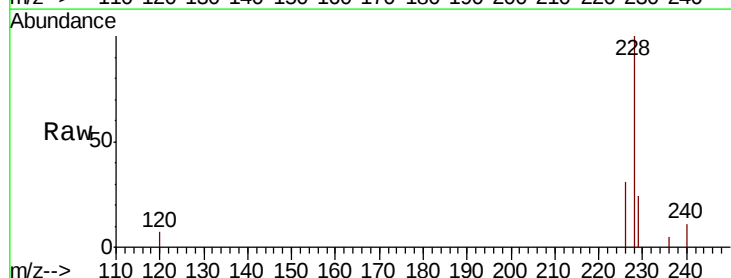
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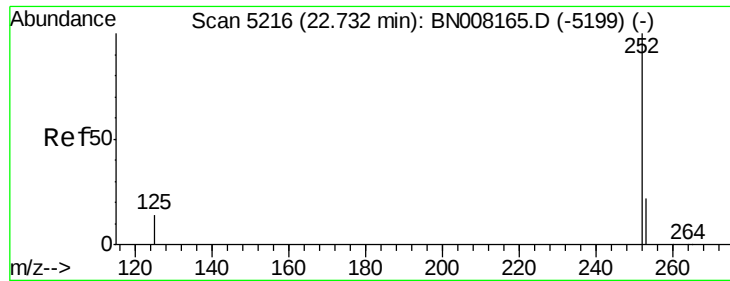
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#19  
Chrysene  
Concen: 0.125 ng/ul  
RT: 21.24 min Scan# 4704  
Delta R.T. -0.01 min  
Lab File: BN008173.D  
Acq: 15 Oct 2019 15:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.9  | 24.1  | 36.1  |
| 229     | 23.9  | 16.2  | 24.2  |





#21

Benzo(b)fluoranthene

Concen: 0.192 ng/ul m

RT: 22.74 min Scan# 5217

Delta R.T. -0.01 min

Lab File: BN008173.D

Acq: 15 Oct 2019 15:03

Instrument :

BNA\_N

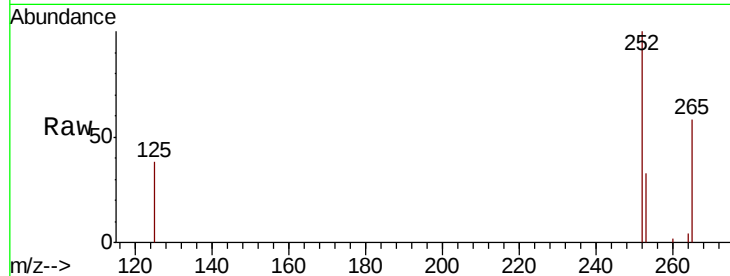
ClientSampleId :

BEP85

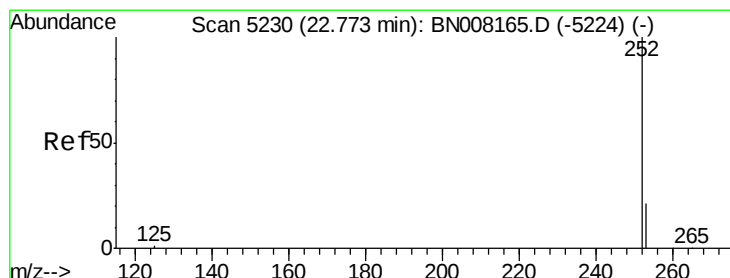
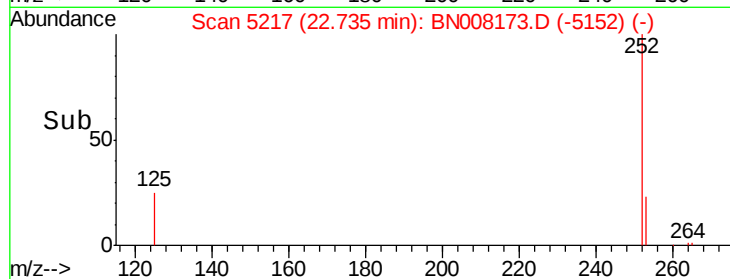
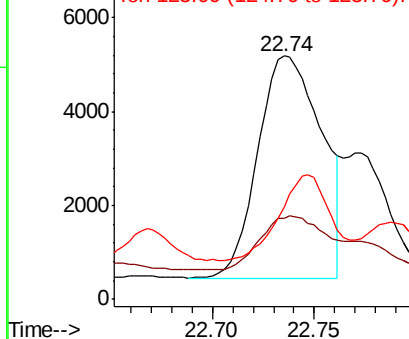
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 33.2  | 0.0        | 53.4  |
| 125     | 38.1  | 0.0        | 32.4# |

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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#22

Benzo(k)fluoranthene

Concen: 0.072 ng/ul m

RT: 22.77 min Scan# 5229

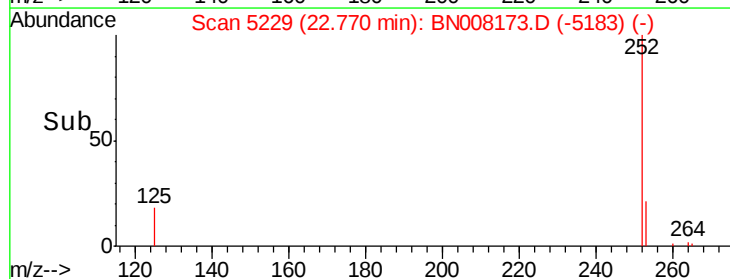
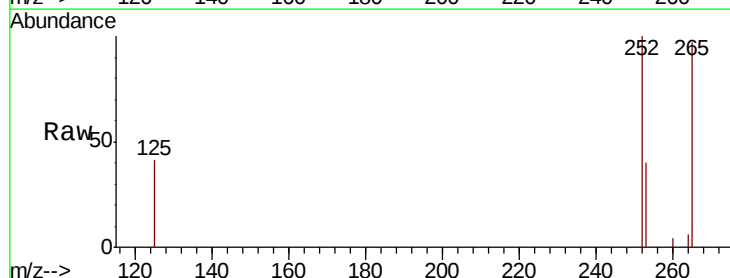
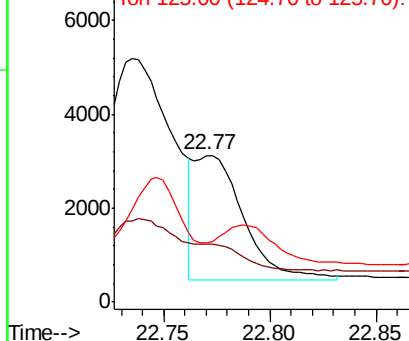
Delta R.T. -0.01 min

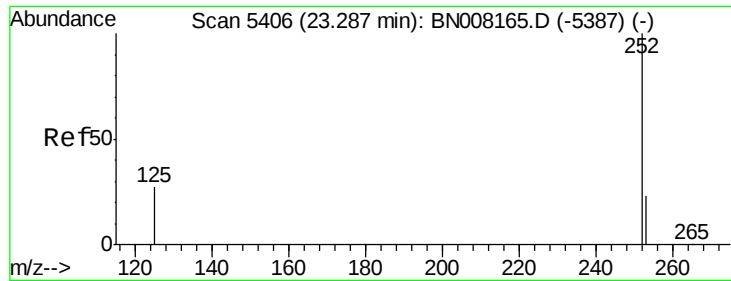
Lab File: BN008173.D

Acq: 15 Oct 2019 15:03

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 39.8  | 21.3       | 31.9# |
| 125     | 40.6  | 12.3       | 18.5# |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





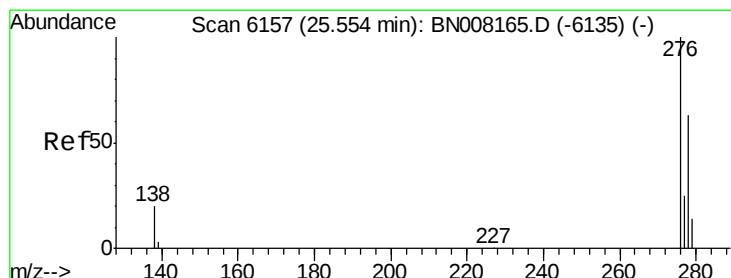
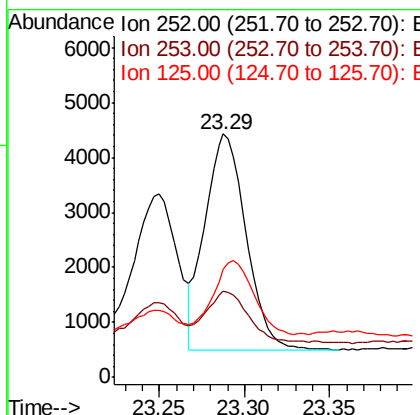
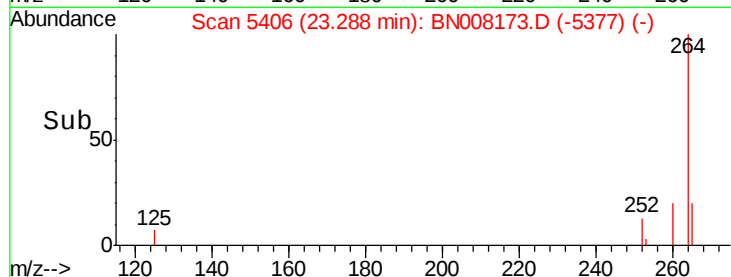
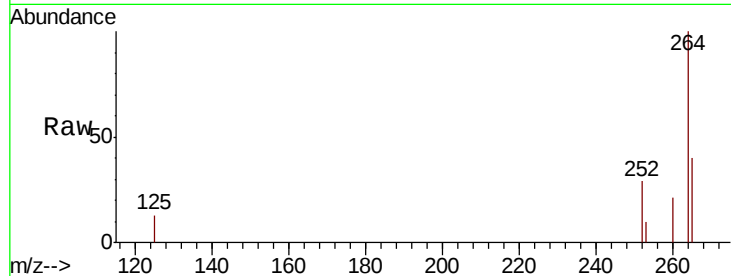
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Benzo(a)pyrene  
Concen: 0.116 ng/u1  
RT: 23.29 min Scan# 5406  
Delta R.T. -0.01 min  
Lab File: BN008173.D  
Acq: 15 Oct 2019 15:03

Instrument :  
BNA\_N  
ClientSampleId :  
BEP85

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 35.4  | 22.8  | 34.2# |
| 125     | 44.5  | 18.4  | 27.6# |

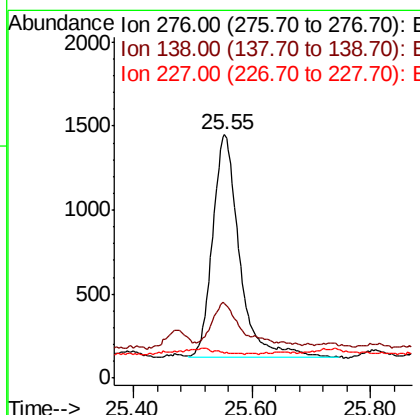
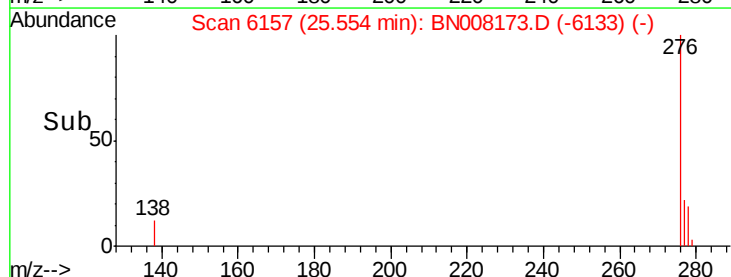
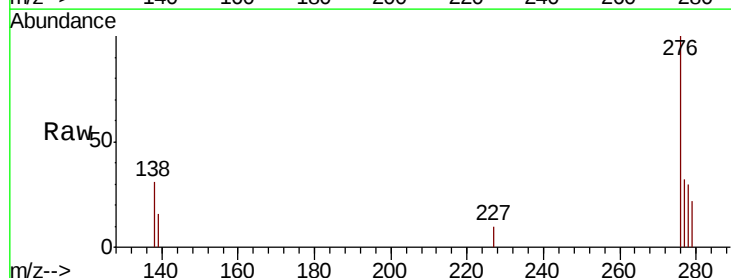
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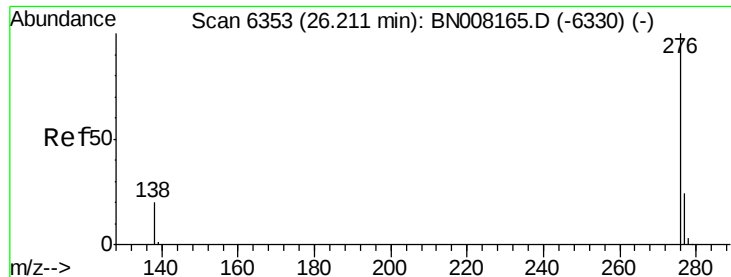
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#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.063 ng/u1  
RT: 25.55 min Scan# 6157  
Delta R.T. -0.02 min  
Lab File: BN008173.D  
Acq: 15 Oct 2019 15:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.4  | 16.1  | 24.1  |
| 227     | 0.0   | 0.2   | 0.2#  |





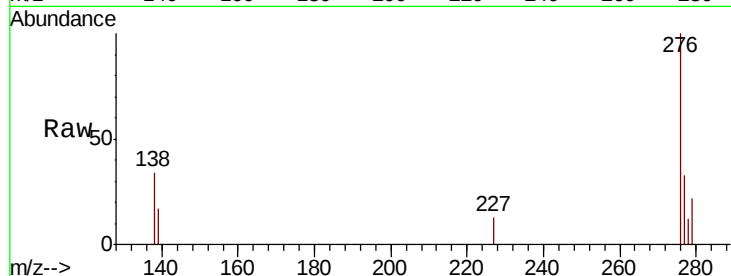
#26  
 Benzo(a,h,i)perylene  
 Concen: 0.054 ng/ul  
 RT: 26.21 min Scan# 6354  
 Delta R.T. -0.02 min  
 Lab File: BN008173.D  
 Acq: 15 Oct 2019 15:03

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEP85

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 34.2  | 17.0  | 25.4# |
| 277     | 33.4  | 20.4  | 30.6# |

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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

