

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101419\  
 Data File : BN008185.D  
 Acq On : 15 Oct 2019 22:13  
 Operator : JU  
 Sample : K5175-13  
 Misc :  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPG0

Manual Integrations  
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Quant Time: Oct 16 04:55:10 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   | 7.61  | 152  | 1992     | 0.40   | ng/ul  | -0.01    |
| 2) Naphthalene-d8           | 10.38 | 136  | 9874     | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.25 | 164  | 6330     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.00 | 188  | 14378m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.19 | 240  | 15779m   | 0.40   | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.38 | 264  | 12326m   | 0.40   | ng/ul  | -0.02    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.98 | 152  | 4040     | 0.24   | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 19.03 | 212  | 13414m   | 0.27   | ng/ul  | -0.01    |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 7) Acenaphthylene           | 13.96 | 152  | 1930     | 0.064  | ng/ul# | 75       |
| 8) Acenaphthene             | 14.31 | 153  | 535      | 0.023  | ng/ul# | 94       |
| 12) Phenanthrene            | 17.04 | 178  | 11943    | 0.284  | ng/ul  | 100      |
| 13) Anthracene              | 17.13 | 178  | 2551m    | 0.069  | ng/ul  |          |
| 15) Fluoranthene            | 19.06 | 202  | 37447m   | 0.674  | ng/ul  |          |
| 17) Pyrene                  | 19.42 | 202  | 34911m   | 0.556  | ng/ul  |          |
| 18) Benzo(a)anthracene      | 21.18 | 228  | 20529m   | 0.358  | ng/ul  |          |
| 19) Chrysene                | 21.23 | 228  | 23577    | 0.335  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.73 | 252  | 29111m   | 0.726  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.77 | 252  | 9931m    | 0.218  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.28 | 252  | 19639m   | 0.465  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.54 | 276  | 11671m   | 0.235  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 25.55 | 278  | 2598m    | 0.066  | ng/ul  |          |
| 26) Benzo(g,h,i)perylene    | 26.20 | 276  | 9578m    | 0.210  | ng/ul  |          |

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

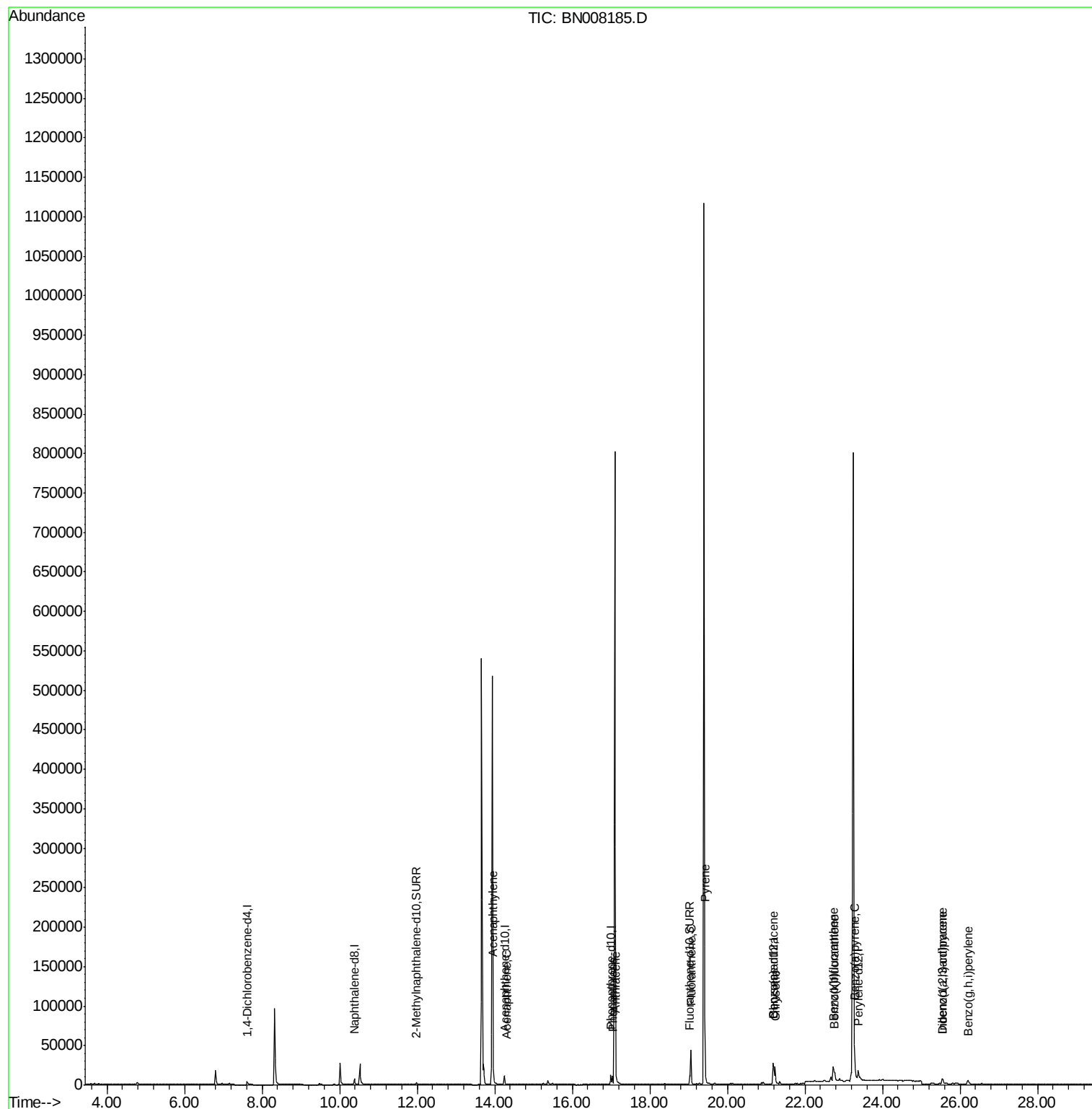
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101419\  
Data File : BN008185.D  
Acq On : 15 Oct 2019 22:13  
Operator : JU  
Sample : K5175-13  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

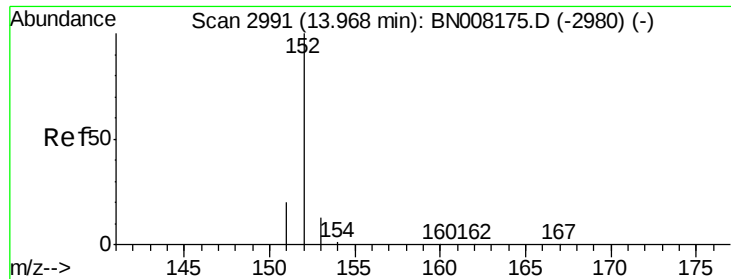
Instrument :  
BNA\_N  
ClientSampleId :  
BEPG0

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Quant Time: Oct 16 04:55:10 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





#7

Acenaphthylene

Concen: 0.064 ng/ul

RT: 13.96 min Scan# 2990

Delta R.T. -0.01 min

Lab File: BN008185.D

Acq: 15 Oct 2019 22:13

Instrument :

BNA\_N

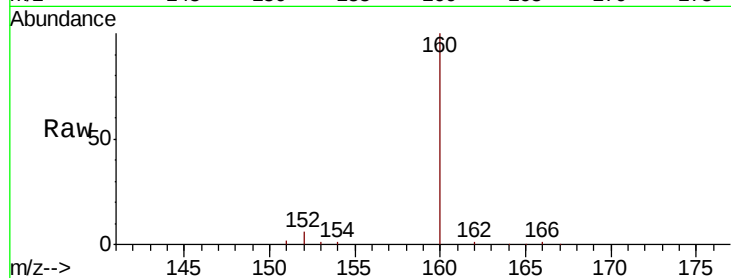
ClientSampleId :

BEPG0

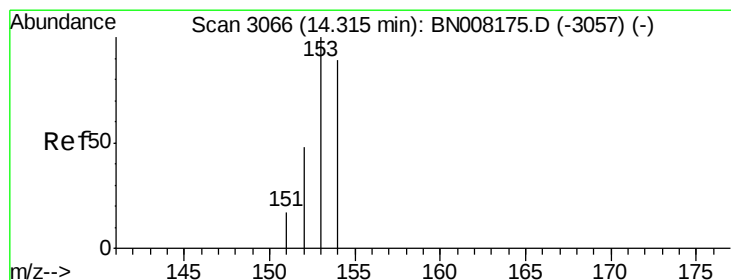
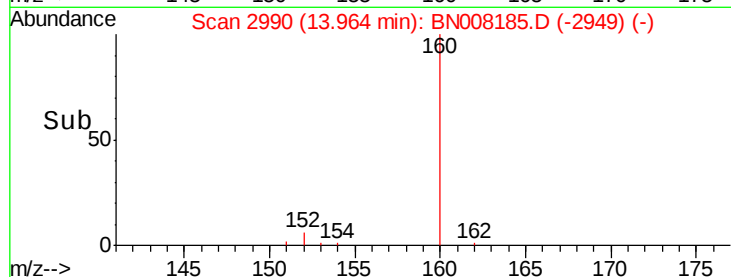
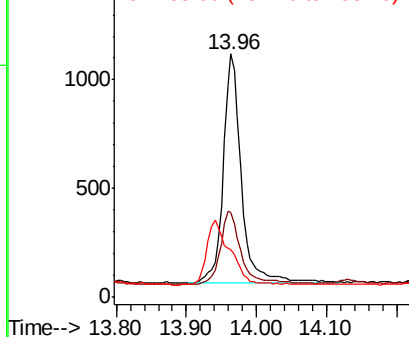
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 1930  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 35.1  | 16.2  | 24.4# |
| 153       | 19.4  | 11.0  | 16.4# |

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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#8

Acenaphthene

Concen: 0.023 ng/ul

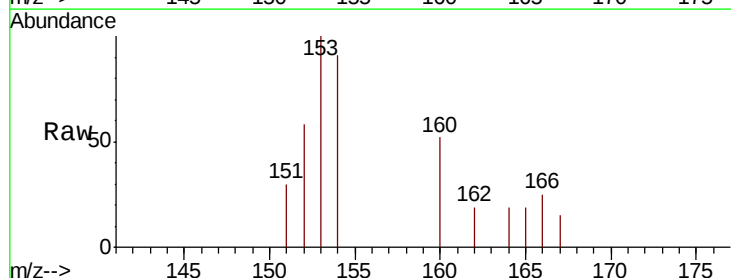
RT: 14.31 min Scan# 3065

Delta R.T. -0.01 min

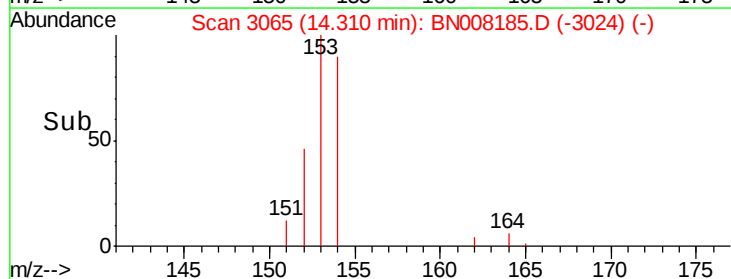
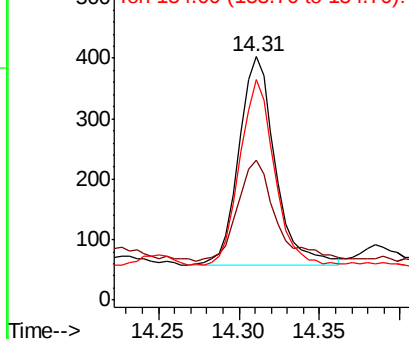
Lab File: BN008185.D

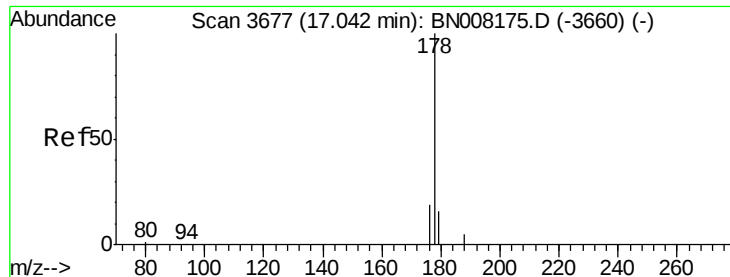
Acq: 15 Oct 2019 22:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 535   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 57.6  | 38.2  | 57.2# |
| 154       | 90.8  | 71.8  | 107.8 |



Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E





#12

Phenanthrene

Concen: 0.284 ng/ul

RT: 17.04 min Scan# 3676

Delta R.T. -0.01 min

Lab File: BN008185.D

Acq: 15 Oct 2019 22:13

Instrument :

BNA\_N

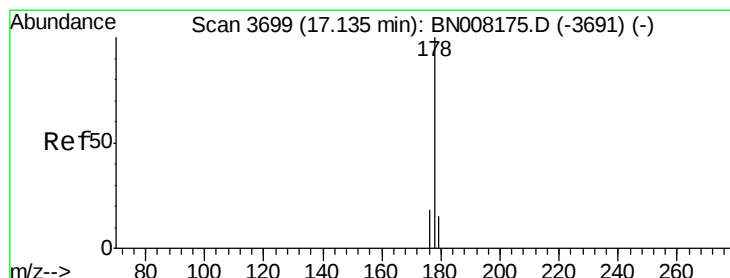
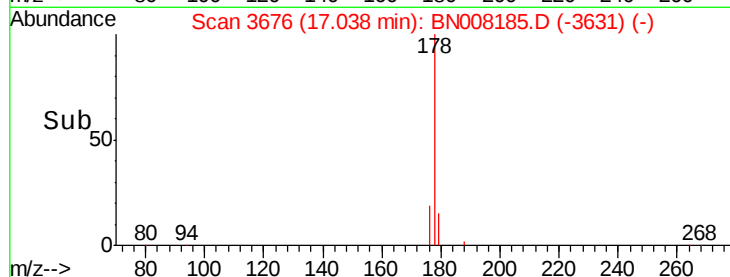
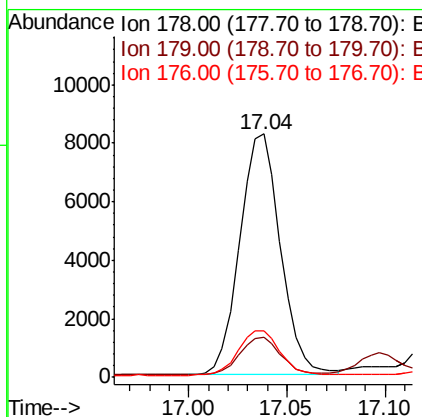
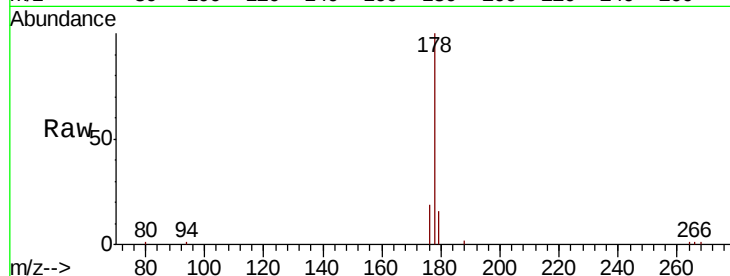
ClientSampled :

BEPG0

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 11943     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 16.5  | 12.8 19.2 |
| 176         | 19.3  | 15.4 23.2 |

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#13

Anthracene

Concen: 0.069 ng/ul m

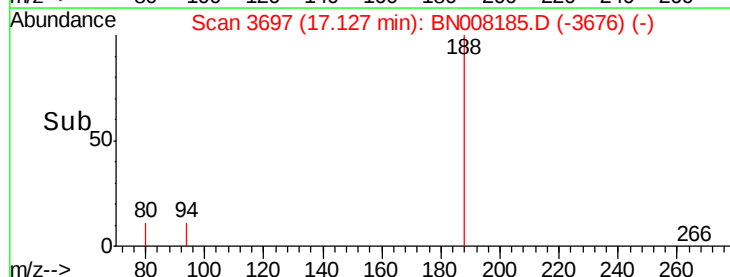
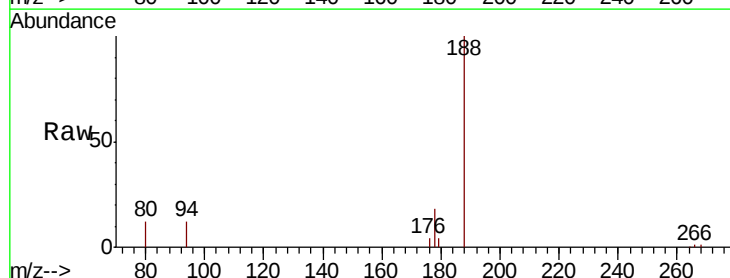
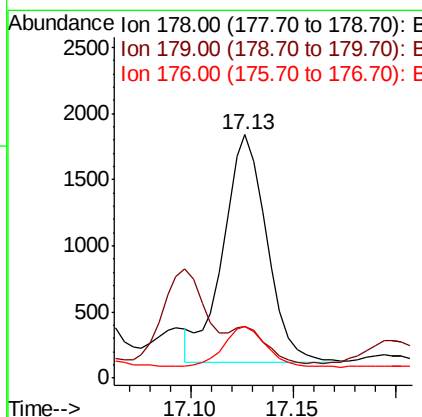
RT: 17.13 min Scan# 3697

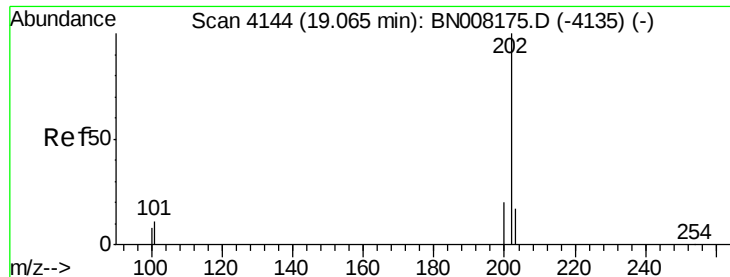
Delta R.T. -0.01 min

Lab File: BN008185.D

Acq: 15 Oct 2019 22:13

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:178 | Resp: | 2551       |
| Ion Ratio   | Lower | Upper      |
| 178         | 100   |            |
| 179         | 21.1  | 13.0 19.6# |
| 176         | 21.1  | 15.0 22.6  |





#15

Fluoranthene

Concen: 0.674 ng/ul m

RT: 19.06 min Scan# 4143

Delta R.T. -0.01 min

Lab File: BN008185.D

Acq: 15 Oct 2019 22:13

Instrument :

BNA\_N

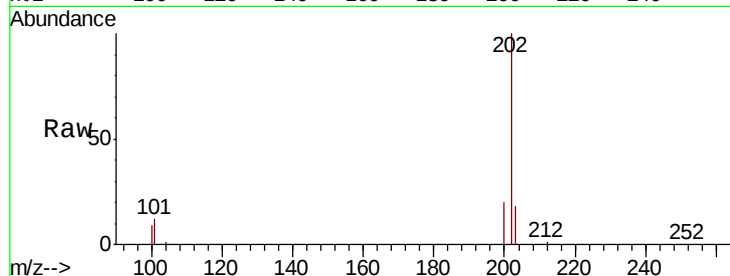
ClientSampled :

BEPG0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 37447 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.8  | 0.0   | 31.2  |
| 100       | 8.7   | 0.0   | 28.5  |

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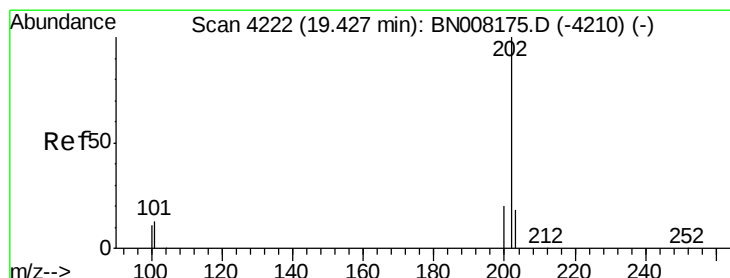
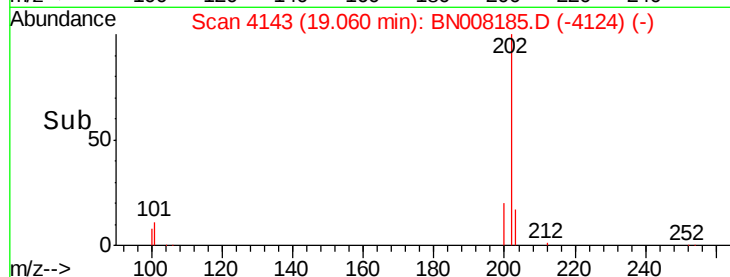
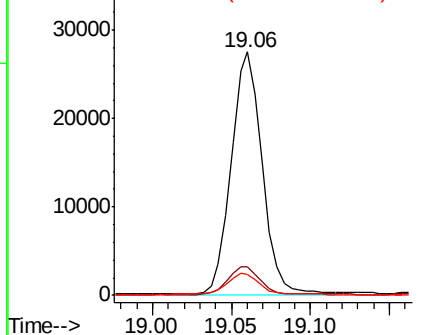
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#17

Pyrene

Concen: 0.556 ng/ul m

RT: 19.42 min Scan# 4221

Delta R.T. -0.01 min

Lab File: BN008185.D

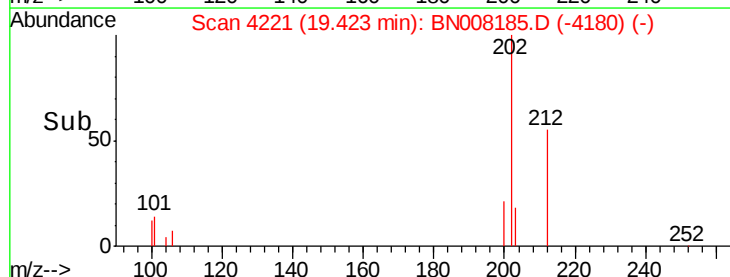
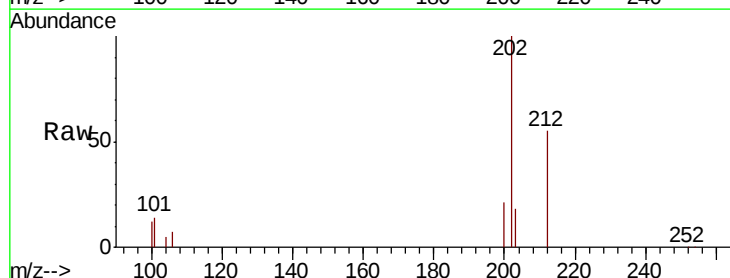
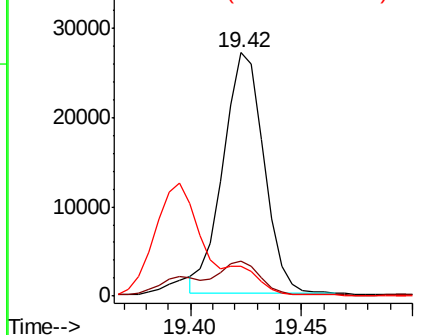
Acq: 15 Oct 2019 22:13

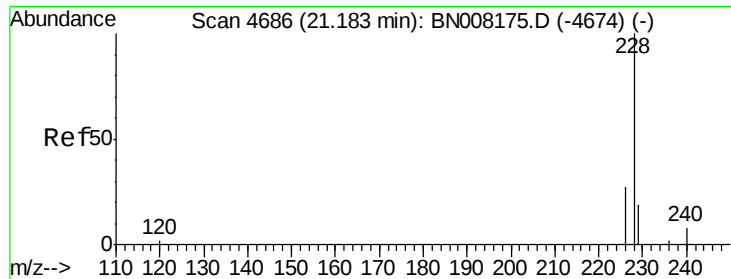
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 34911 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 14.4  | 10.9  | 16.3  |
| 100       | 12.4  | 8.7   | 13.1  |

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





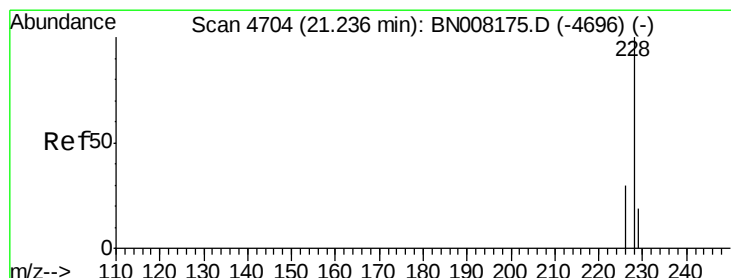
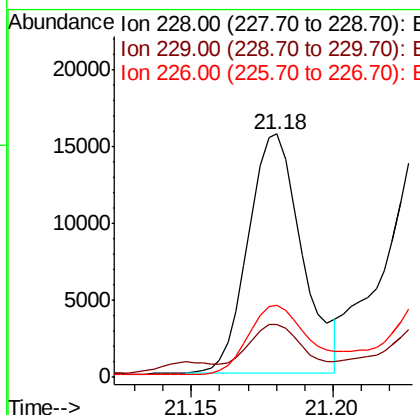
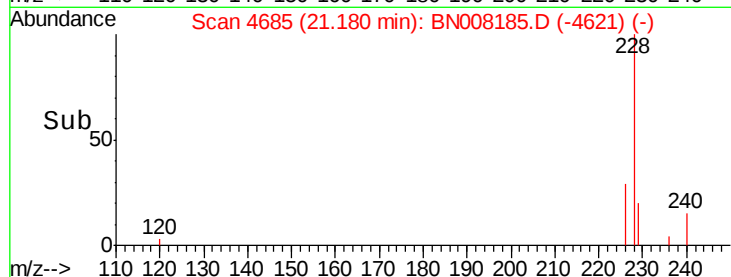
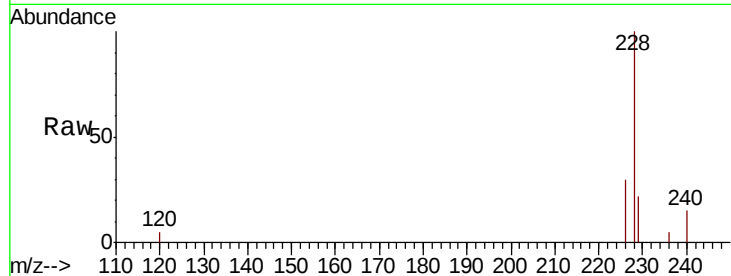
#18  
Benzo(a)anthracene  
Concen: 0.358 ng/ul m  
RT: 21.18 min Scan# 4685  
Delta R.T. -0.01 min  
Lab File: BN008185.D  
Acq: 15 Oct 2019 22:13

Instrument :  
BNA\_N  
ClientSampleId :  
BEPG0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.7  | 16.2  | 24.2  |
| 226     | 29.6  | 21.4  | 32.0  |

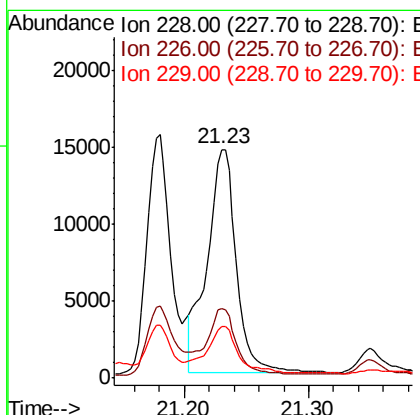
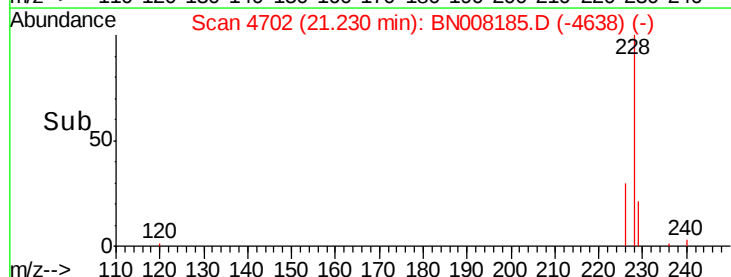
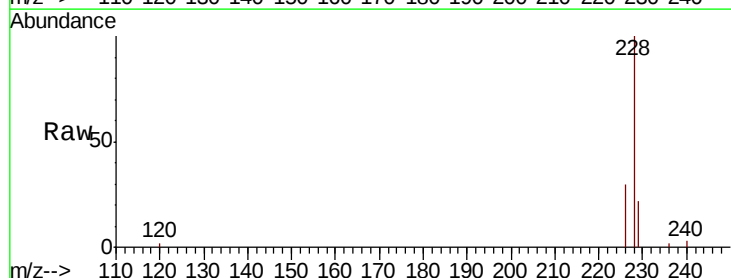
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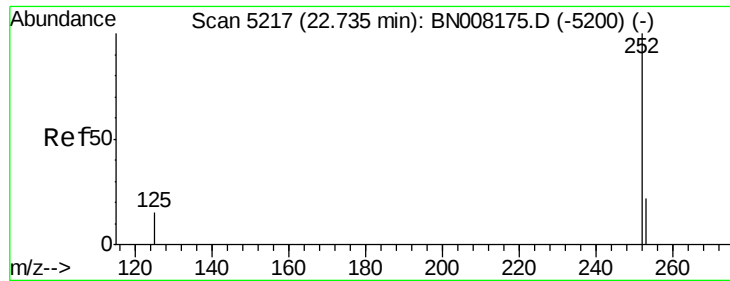
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#19  
Chrysene  
Concen: 0.335 ng/ul  
RT: 21.23 min Scan# 4702  
Delta R.T. -0.01 min  
Lab File: BN008185.D  
Acq: 15 Oct 2019 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 24.1  | 36.1  |
| 229     | 22.5  | 16.2  | 24.2  |





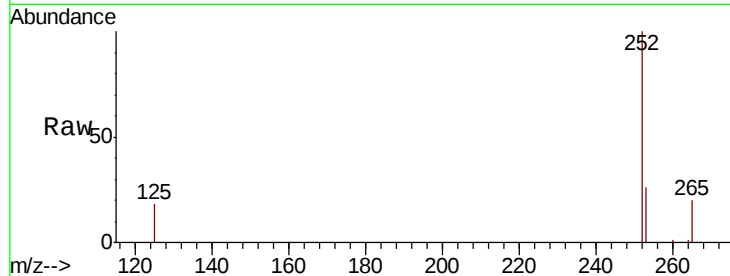
#21  
Benzo(b)fluoranthene  
Concen: 0.726 ng/ul m  
RT: 22.73 min Scan# 5215  
Delta R.T. -0.01 min  
Lab File: BN008185.D  
Acq: 15 Oct 2019 22:13

Instrument :  
BNA\_N  
ClientSampleId :  
BEPG0

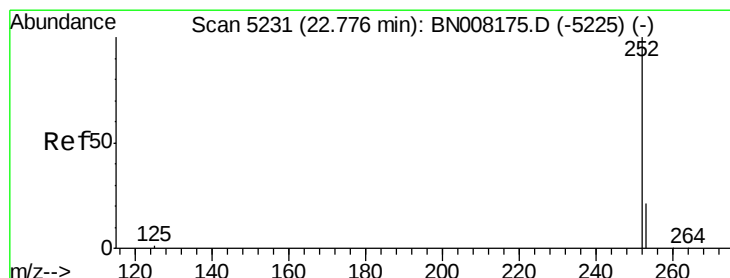
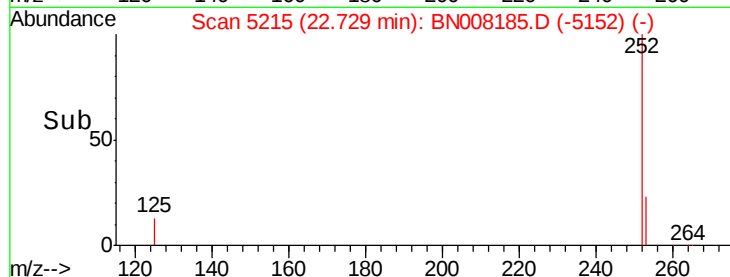
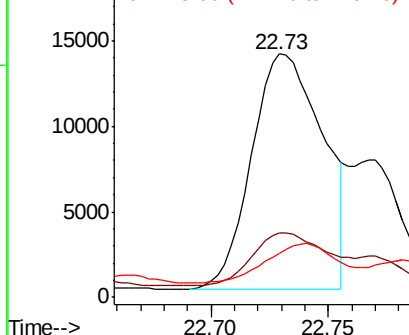
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.4  | 0.0   | 53.4  |
| 125     | 18.3  | 0.0   | 32.4  |

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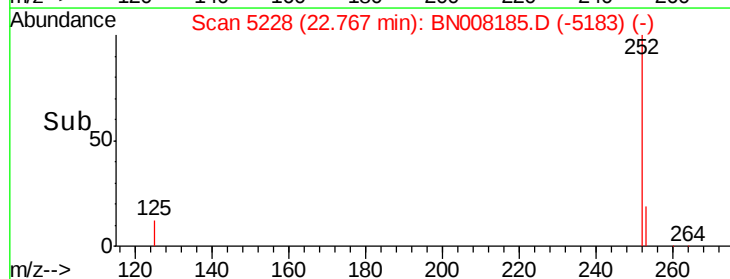
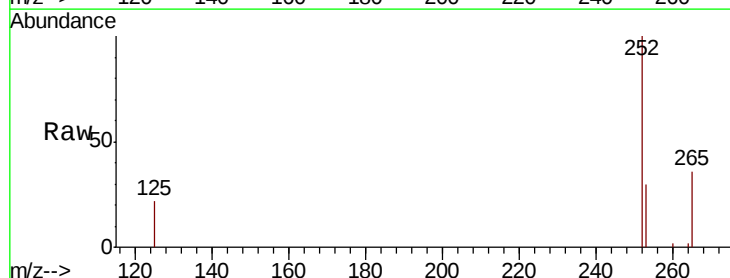
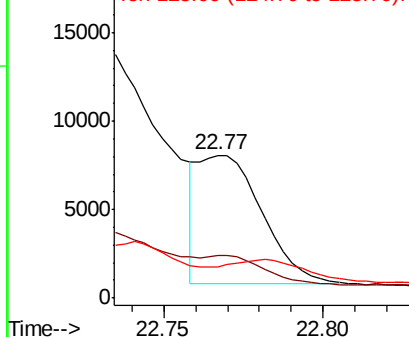
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

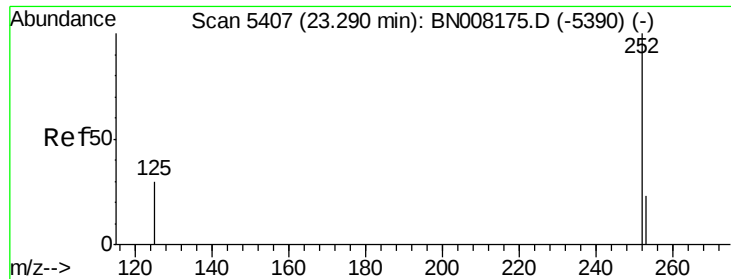


#22  
Benzo(k)fluoranthene  
Concen: 0.218 ng/ul m  
RT: 22.77 min Scan# 5228  
Delta R.T. -0.02 min  
Lab File: BN008185.D  
Acq: 15 Oct 2019 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.9  | 21.3  | 31.9  |
| 125     | 21.9  | 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





#23

Benzo(a)pyrene

Concen: 0.465 ng/ul m

RT: 23.28 min Scan# 5404

Delta R.T. -0.02 min

Lab File: BN008185.D

Acq: 15 Oct 2019 22:13

Instrument :

BNA\_N

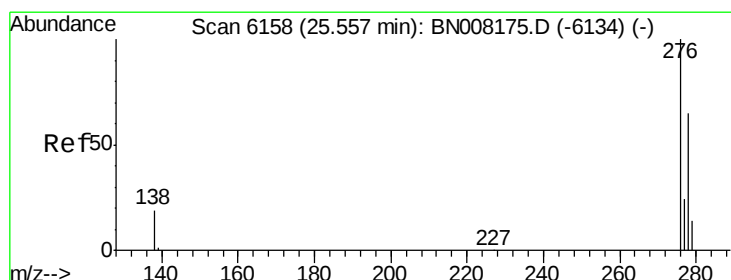
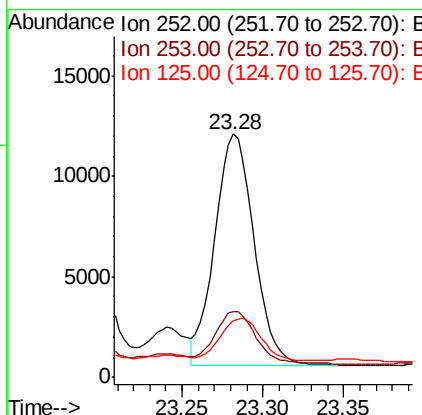
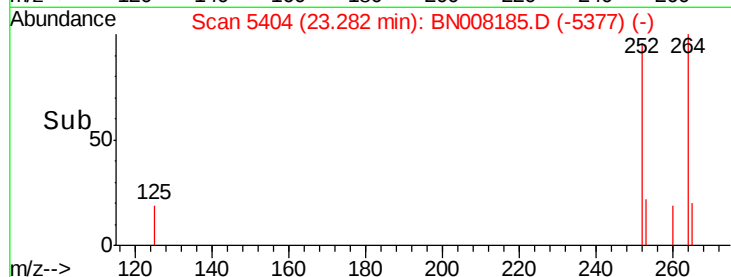
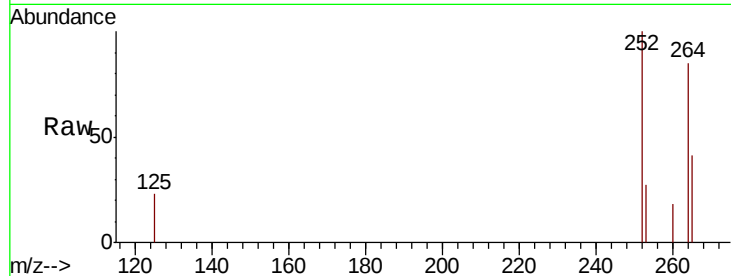
ClientSampleId :

BEPG0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 19639 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.2  | 22.8  | 34.2  |
| 125       | 23.2  | 18.4  | 27.6  |

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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.235 ng/ul m

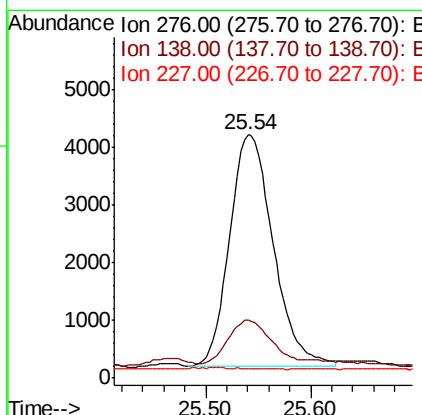
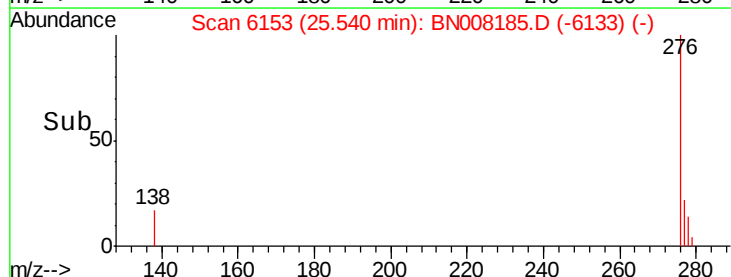
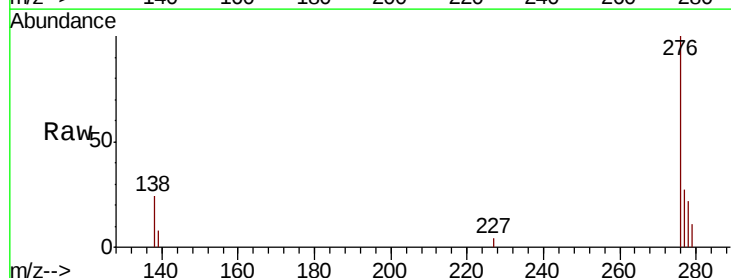
RT: 25.54 min Scan# 6153

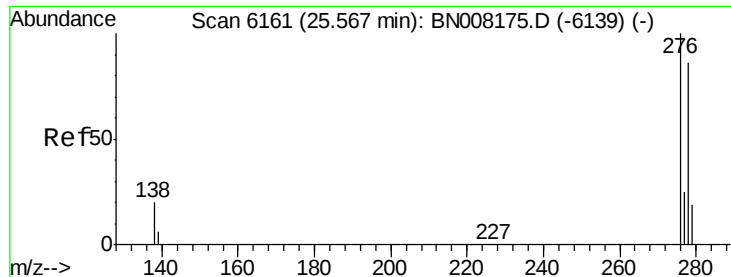
Delta R.T. -0.03 min

Lab File: BN008185.D

Acq: 15 Oct 2019 22:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 11671 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 1.4   | 16.1  | 24.1# |
| 227       | 0.1   | 0.2   | 0.2#  |





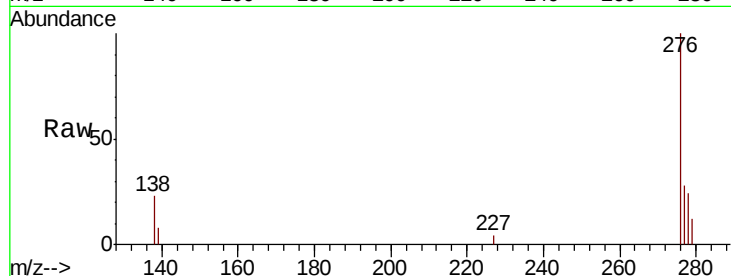
#25  
Dibenzo(a,h)anthracene  
Concen: 0.066 ng/ul m  
RT: 25.55 min Scan# 6155  
Delta R.T. -0.04 min  
Lab File: BN008185.D  
Acq: 15 Oct 2019 22:13

Instrument :  
BNA\_N  
ClientSampled :  
BEPG0

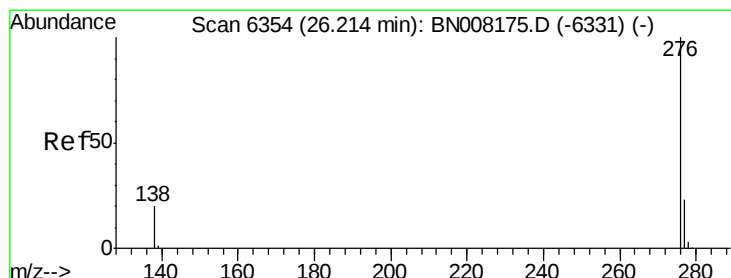
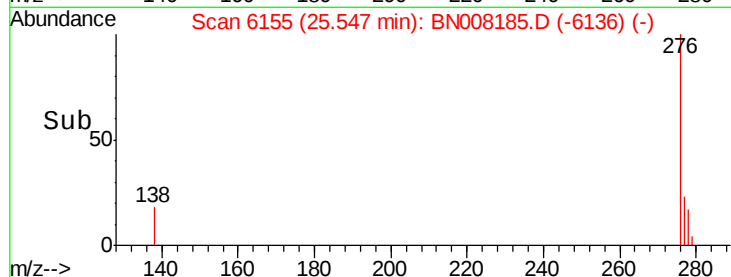
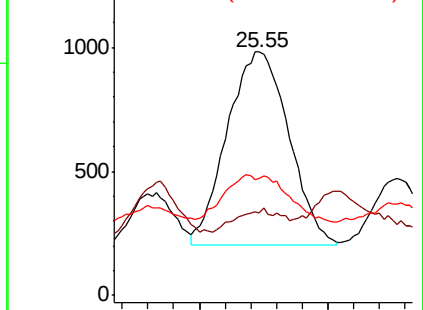
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 33.6  | 15.0  | 22.6# |
| 279     | 48.1  | 22.4  | 33.6# |

Manual Integrations  
APPROVED

mohammad  
10/16/2019 4:08:48 PM



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#26  
Benzo(g,h,i)perylene  
Concen: 0.210 ng/ul m  
RT: 26.20 min Scan# 6351  
Delta R.T. -0.03 min  
Lab File: BN008185.D  
Acq: 15 Oct 2019 22:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.6  | 17.0  | 25.4# |
| 277     | 27.8  | 20.4  | 30.6  |

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

