

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102119\  
 Data File : BN008276.D  
 Acq On : 21 Oct 2019 11:01  
 Operator : JU  
 Sample : K5199-04  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPJ8

Manual Integrations  
 APPROVED

mohammad  
 10/22/2019 3:26:56 PM

Quant Time: Oct 21 15:41:05 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 : Mon Oct 21 15:18:52 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.59  | 152  | 1784     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.35 | 136  | 8529     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.22 | 164  | 5338     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.97 | 188  | 12124m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.18 | 240  | 11800    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.35 | 264  | 13916    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.96 | 152  | 3920     | 0.27   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.01 | 212  | 11613    | 0.28   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 7) Acenaphthylene           | 13.94 | 152  | 575      | 0.023  | ng/ul# | 68       |
| 9) Fluorene                 | 15.28 | 166  | 472      | 0.021  | ng/ul# | 94       |
| 12) Phenanthrene            | 17.01 | 178  | 10985    | 0.309  | ng/ul  | 99       |
| 13) Anthracene              | 17.11 | 178  | 1879     | 0.060  | ng/ul# | 89       |
| 15) Fluoranthene            | 19.04 | 202  | 21429    | 0.457  | ng/ul  | 96       |
| 17) Pyrene                  | 19.40 | 202  | 18386    | 0.391  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.16 | 228  | 9108     | 0.212  | ng/ul  | 95       |
| 19) Chrysene                | 21.22 | 228  | 9883     | 0.188  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.71 | 252  | 12891m   | 0.285  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.75 | 252  | 4613m    | 0.090  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.26 | 252  | 7494     | 0.157  | ng/ul# | 78       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.51 | 276  | 4306     | 0.077  | ng/ul# | 90       |
| 25) Dibenzo(a,h)anthracene  | 25.51 | 278  | 941      | 0.021  | ng/ul# | 28       |
| 26) Benzo(g,h,i)perylene    | 26.16 | 276  | 3593     | 0.070  | ng/ul# | 84       |

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

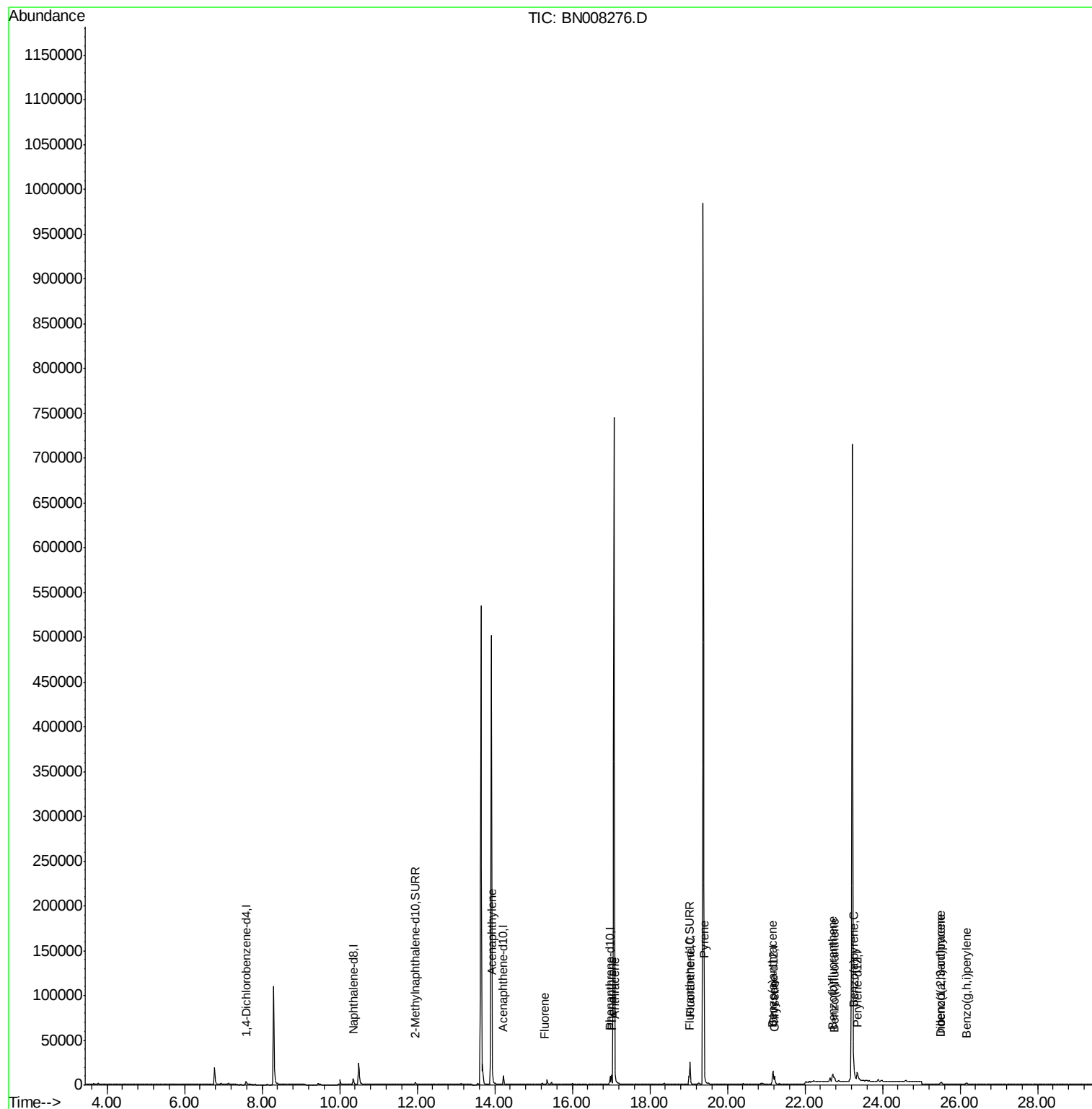
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102119\  
Data File : BN008276.D  
Acq On : 21 Oct 2019 11:01  
Operator : JU  
Sample : K5199-04  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

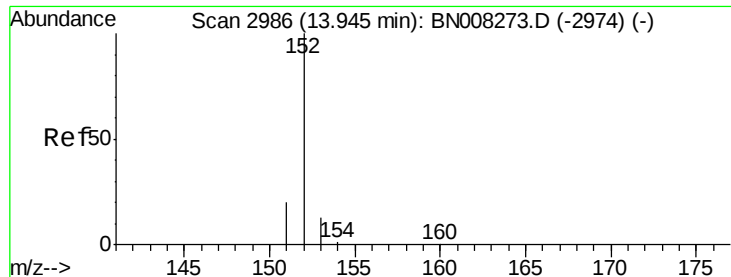
Instrument :  
BNA\_N  
ClientSampleId :  
BEPJ8

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Quant Time: Oct 21 15:41:05 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 : Mon Oct 21 15:18:52 2019  
Response via : Initial Calibration





#7

Acenaphthylene

Concen: 0.023 ng/ul

RT: 13.94 min Scan# 2985

Delta R.T. -0.00 min

Lab File: BN008276.D

Acq: 21 Oct 2019 11:01

Instrument :

BNA\_N

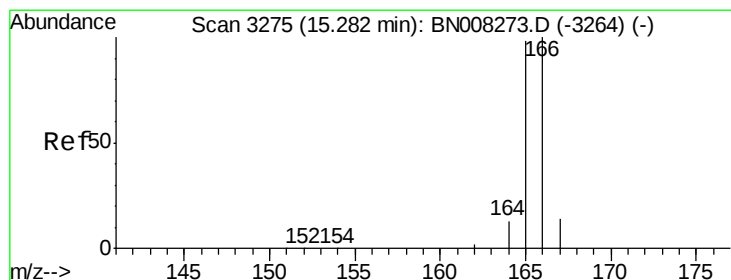
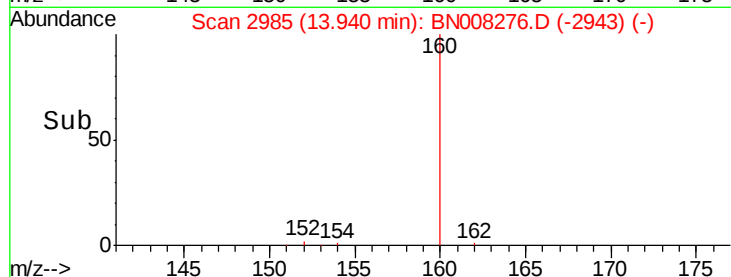
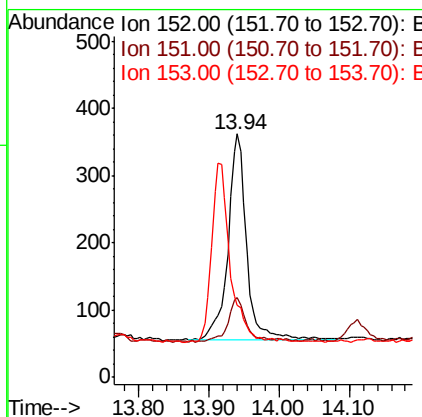
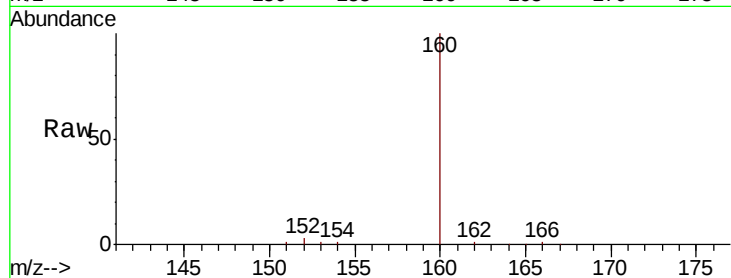
ClientSampled :

BEPJ8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 575   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 32.6  | 16.2  | 24.4# |
| 153       | 29.8  | 11.0  | 16.4# |

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#9

Fluorene

Concen: 0.021 ng/ul

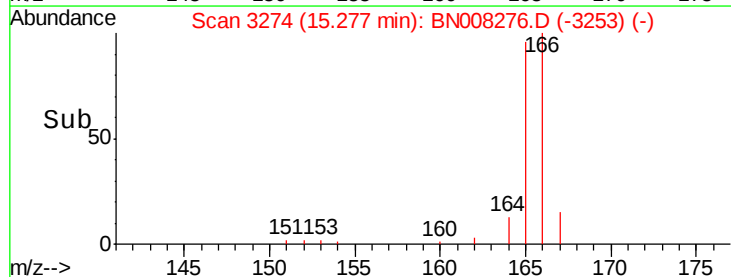
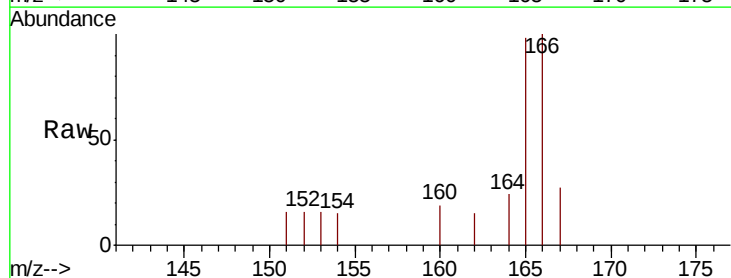
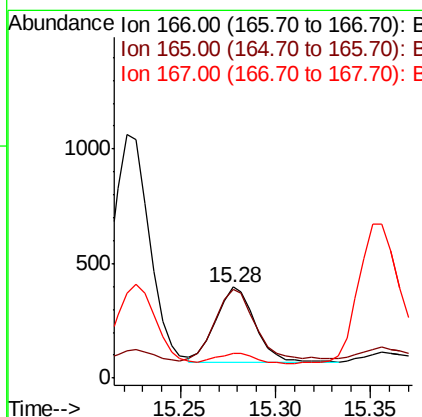
RT: 15.28 min Scan# 3274

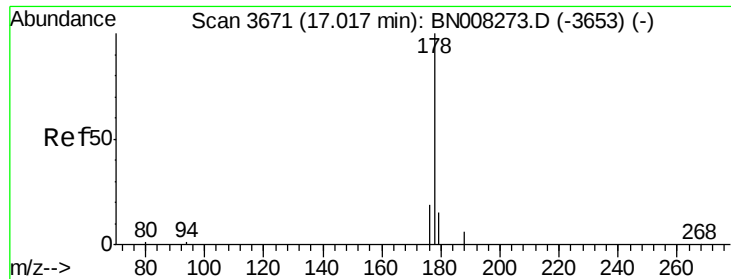
Delta R.T. -0.00 min

Lab File: BN008276.D

Acq: 21 Oct 2019 11:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 472   |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 98.2  | 76.6  | 115.0 |
| 167       | 27.3  | 11.7  | 17.5# |





#12

Phenanthrene

Concen: 0.309 ng/ul

RT: 17.01 min Scan# 3670

Delta R.T. -0.00 min

Lab File: BN008276.D

Acq: 21 Oct 2019 11:01

Instrument :

BNA\_N

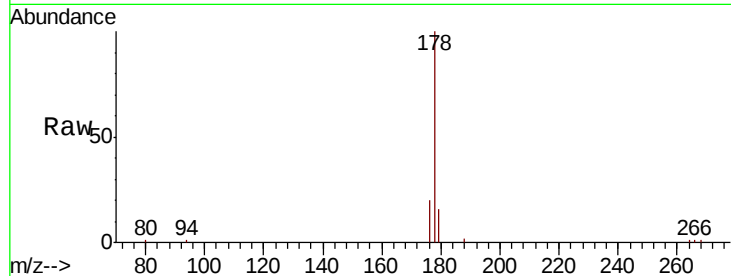
ClientSampleId :

BEPJ8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.0  | 12.8  | 19.2  |
| 176     | 19.8  | 15.4  | 23.2  |

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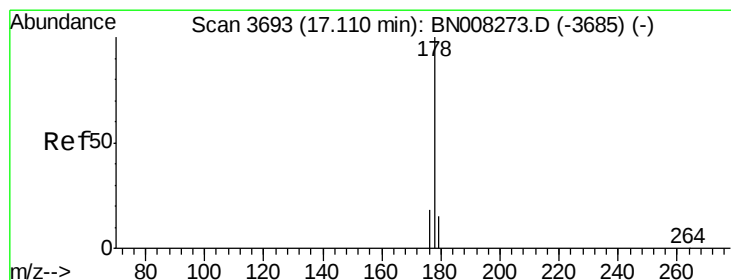
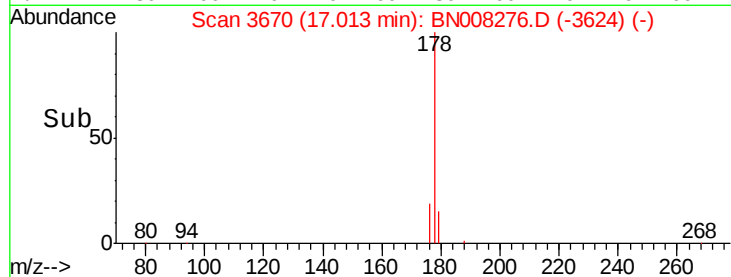
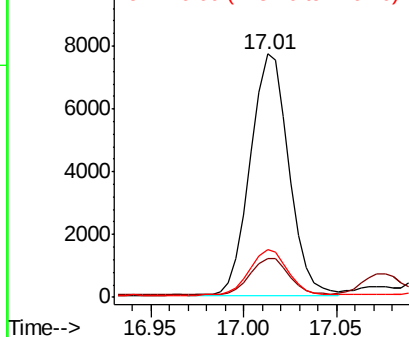


Abundance

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: 0.060 ng/ul

RT: 17.11 min Scan# 3692

Delta R.T. -0.00 min

Lab File: BN008276.D

Acq: 21 Oct 2019 11:01

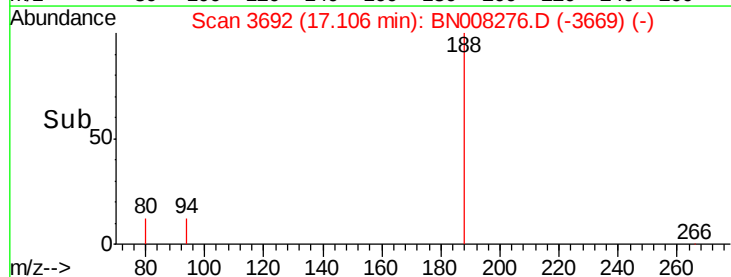
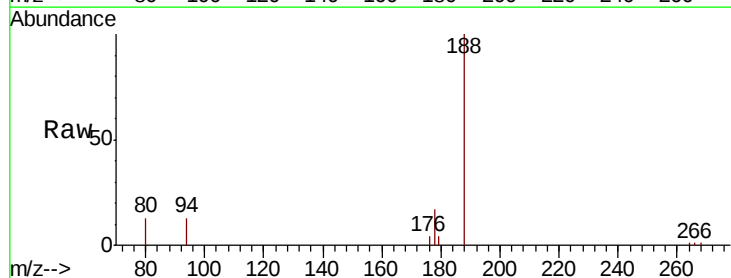
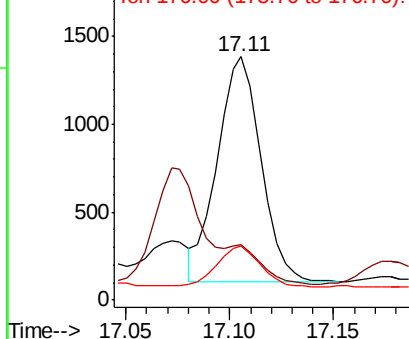
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 22.5  | 13.0  | 19.6# |
| 176     | 22.4  | 15.0  | 22.6  |

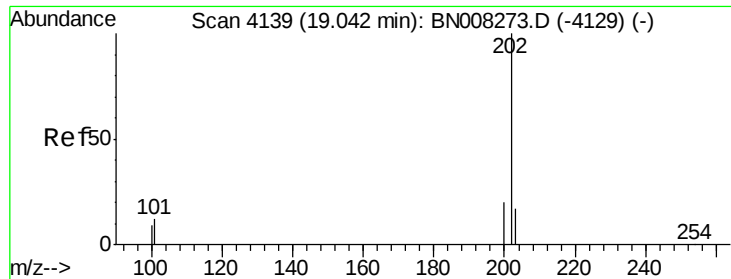
Abundance

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: 0.457 ng/ul

RT: 19.04 min Scan# 4138

Delta R.T. -0.00 min

Lab File: BN008276.D

Acq: 21 Oct 2019 11:01

Instrument :

BNA\_N

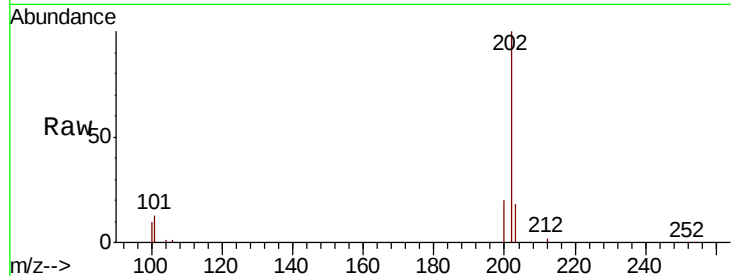
ClientSampleId :

BEPJ8

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 21429 |       |       |
| 101     | 12.8  | 0.0   | 31.2  |       |
| 100     | 9.7   | 0.0   | 28.5  |       |

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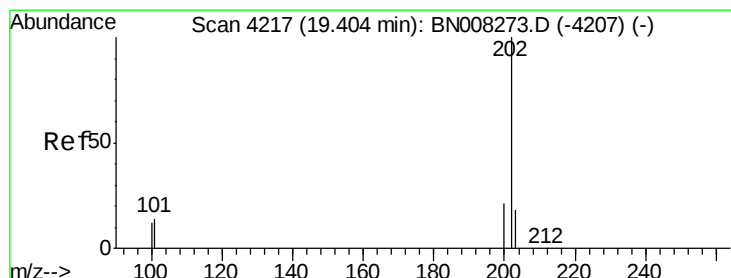
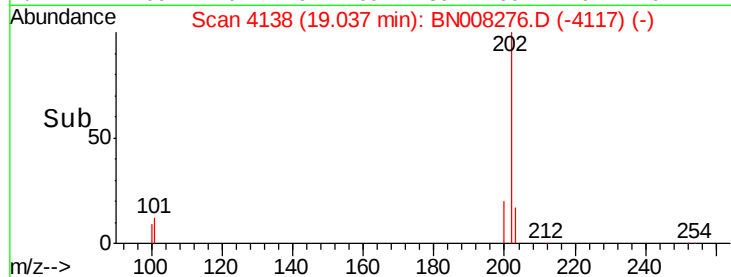
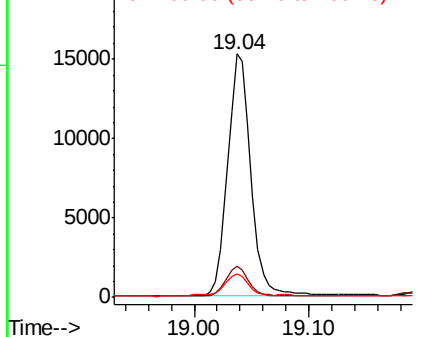


Abundance

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: 0.391 ng/ul

RT: 19.40 min Scan# 4217

Delta R.T. 0.00 min

Lab File: BN008276.D

Acq: 21 Oct 2019 11:01

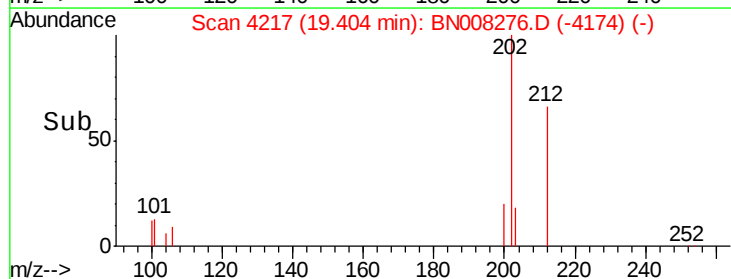
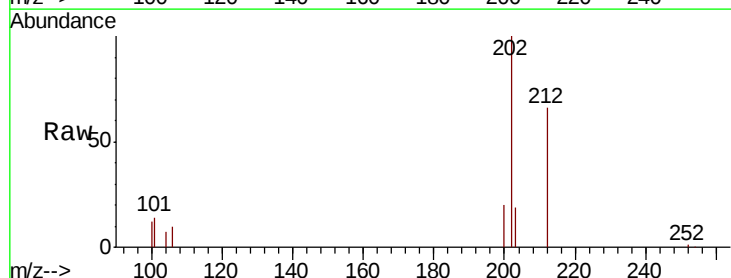
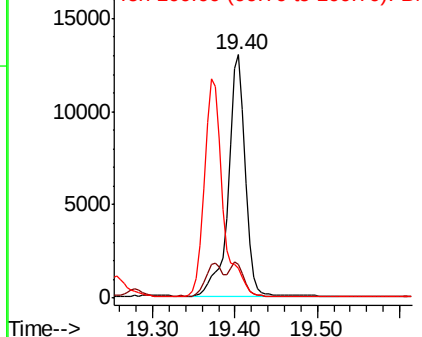
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 18386 |       |       |
| 101     | 13.8  | 10.9  | 16.3  |       |
| 100     | 12.1  | 8.7   | 13.1  |       |

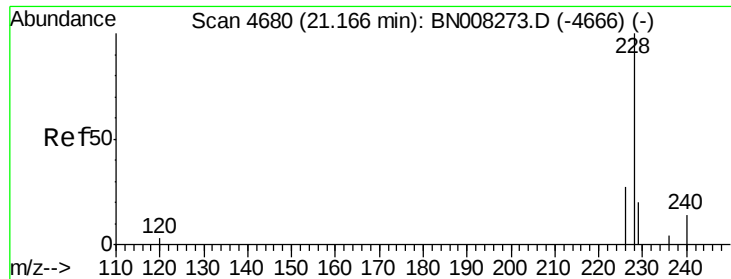
Abundance

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





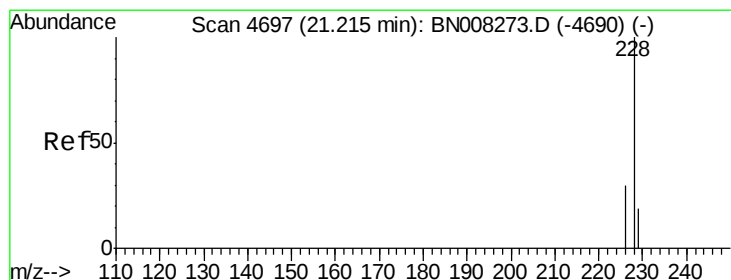
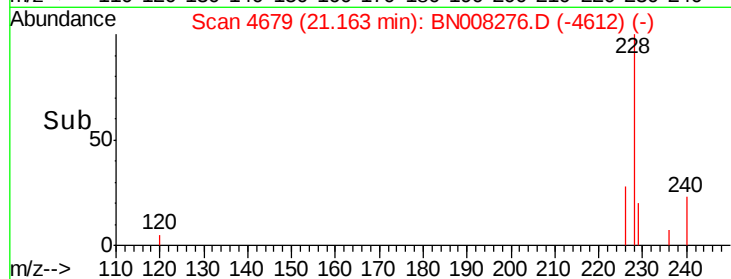
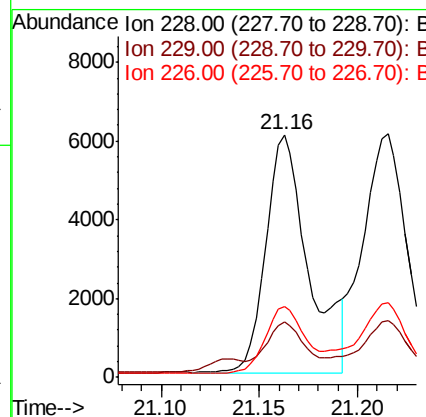
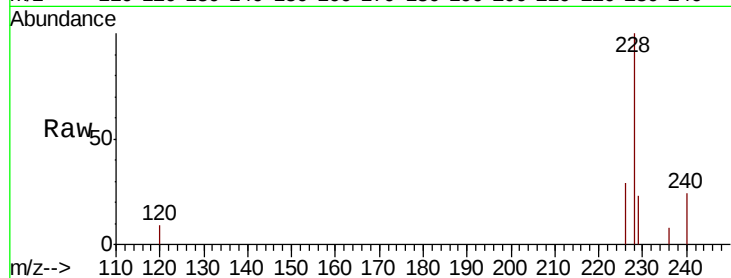
#18  
Benzo(a)anthracene  
Concen: 0.212 ng/ul  
RT: 21.16 min Scan# 4679  
Delta R.T. -0.00 min  
Lab File: BN008276.D  
Acq: 21 Oct 2019 11:01

Instrument :  
BNA\_N  
ClientSampleId :  
BEPJ8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.6  | 16.2  | 24.2  |
| 226     | 29.0  | 21.4  | 32.0  |

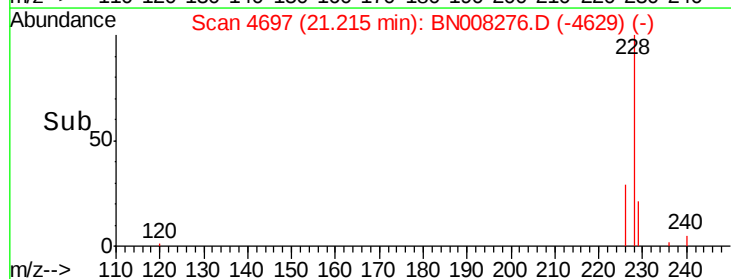
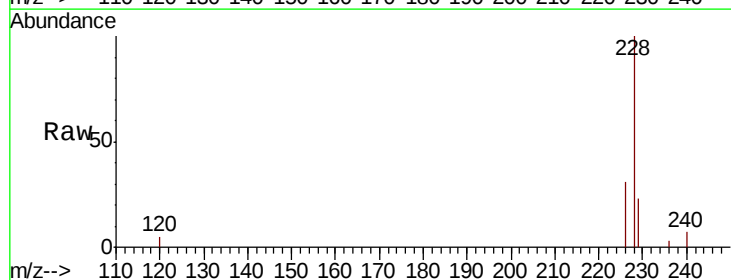
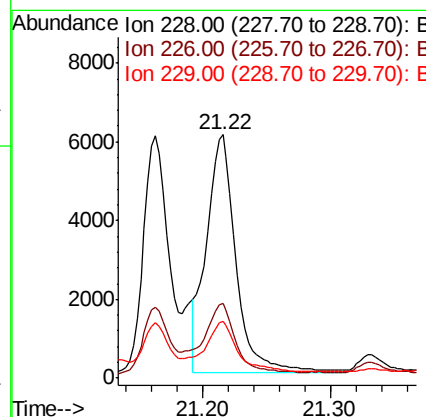
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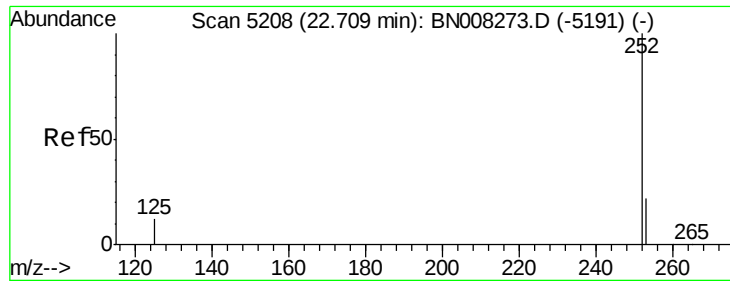
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#19  
Chrysene  
Concen: 0.188 ng/ul  
RT: 21.22 min Scan# 4697  
Delta R.T. 0.00 min  
Lab File: BN008276.D  
Acq: 21 Oct 2019 11:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 24.1  | 36.1  |
| 229     | 23.1  | 16.2  | 24.2  |





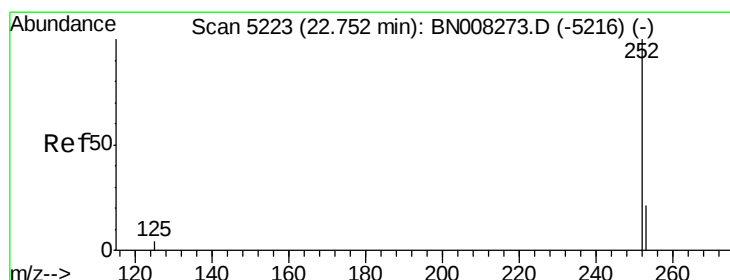
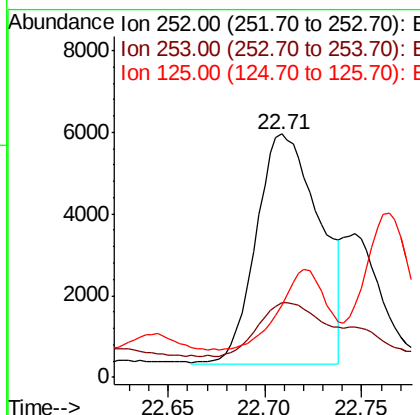
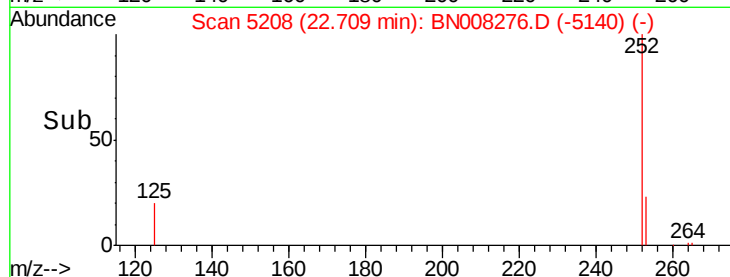
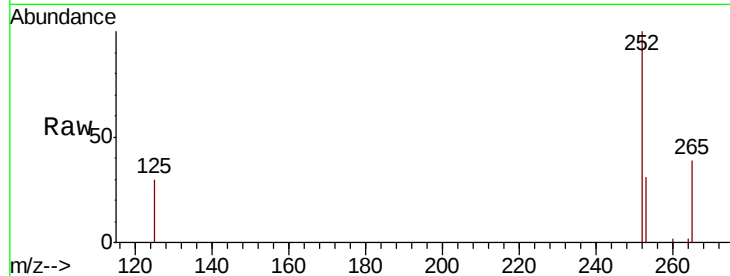
#21  
Benzo(b)fluoranthene  
Concen: 0.285 ng/ul m  
RT: 22.71 min Scan# 5208  
Delta R.T. 0.00 min  
Lab File: BN008276.D  
Acq: 21 Oct 2019 11:01

Instrument :  
BNA\_N  
ClientSampleId :  
BEPJ8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.6  | 0.0   | 53.4  |
| 125     | 29.5  | 0.0   | 32.4  |

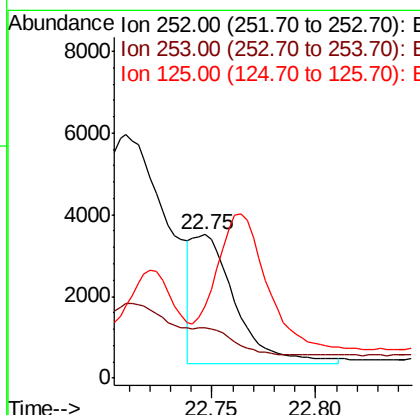
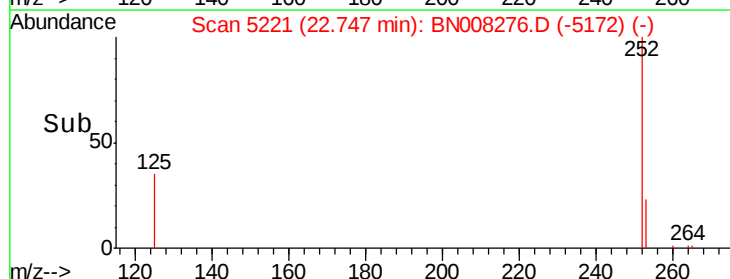
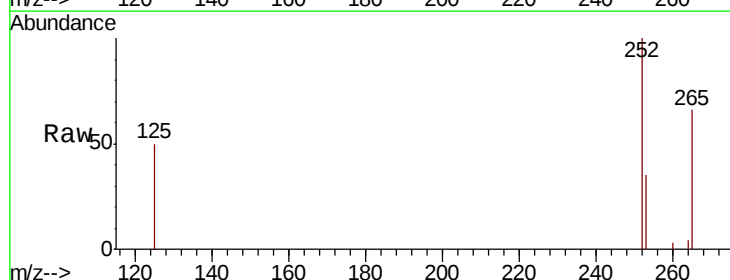
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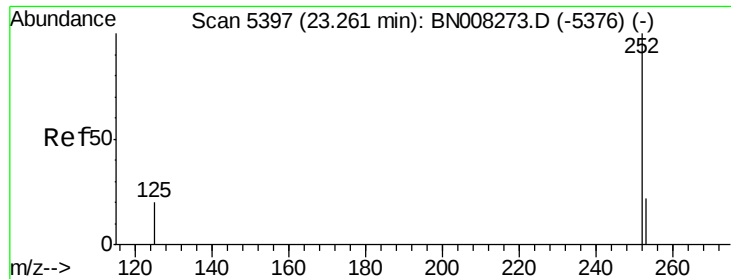
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#22  
Benzo(k)fluoranthene  
Concen: 0.090 ng/ul m  
RT: 22.75 min Scan# 5221  
Delta R.T. -0.01 min  
Lab File: BN008276.D  
Acq: 21 Oct 2019 11:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 35.2  | 21.3  | 31.9# |
| 125     | 50.4  | 12.3  | 18.5# |





#23

Benzo(a)pyrene

Concen: 0.157 ng/uL

RT: 23.26 min Scan# 5396

Delta R.T. -0.00 min

Lab File: BN008276.D

Acq: 21 Oct 2019 11:01

Instrument :

BNA\_N

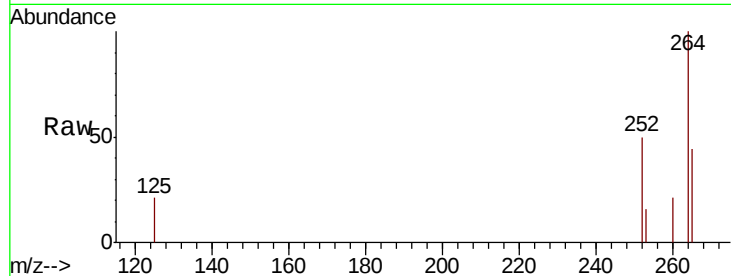
ClientSampleId :

BEPJ8

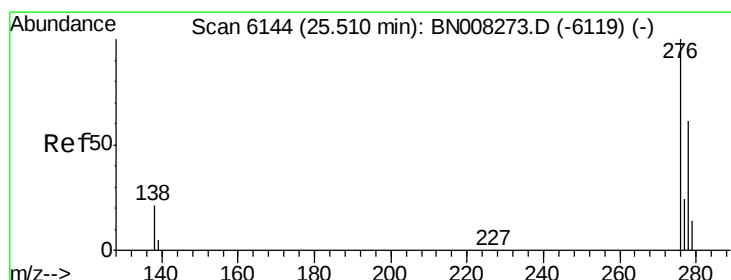
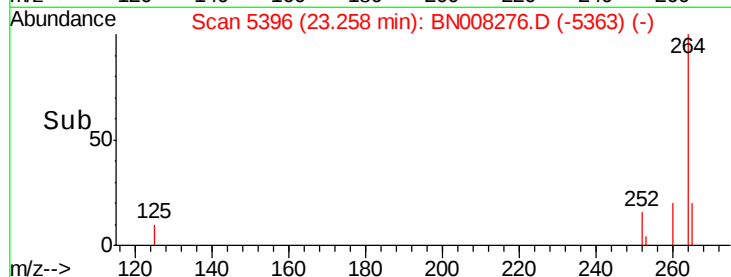
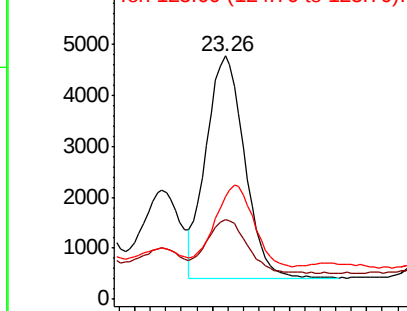
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 7494  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 32.6  | 22.8  | 34.2  |
| 125       | 42.4  | 18.4  | 27.6# |

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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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.077 ng/uL

RT: 25.51 min Scan# 6143

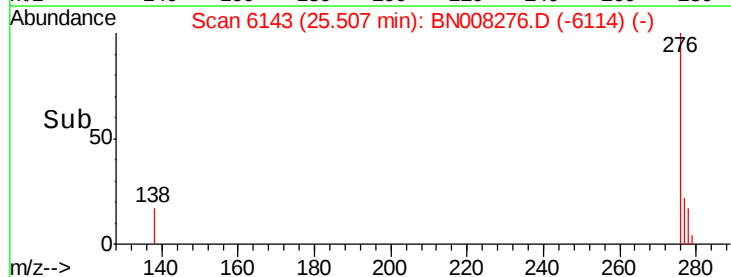
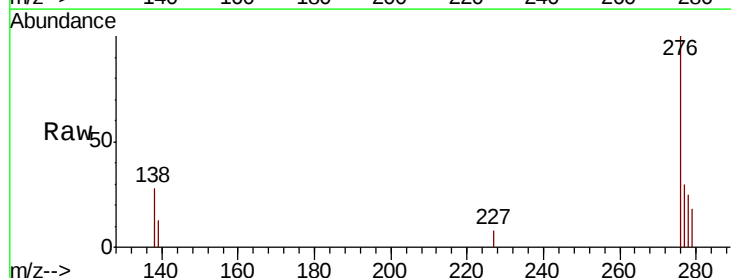
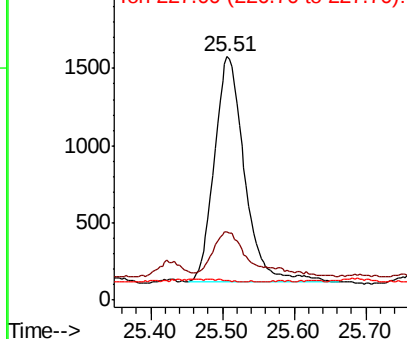
Delta R.T. -0.00 min

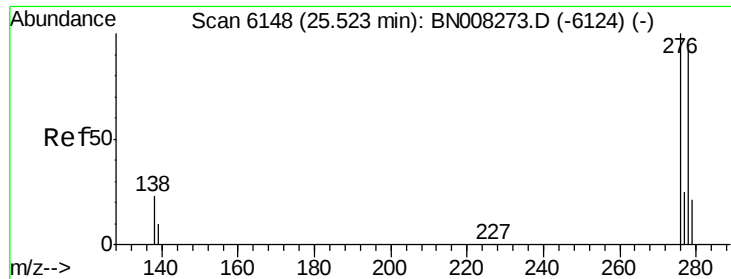
Lab File: BN008276.D

Acq: 21 Oct 2019 11:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 4306  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 24.6  | 16.1  | 24.1# |
| 227       | 0.0   | 0.2   | 0.2#  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.021 ng/u1

RT: 25.51 min Scan# 6145

Delta R.T. -0.01 min

Lab File: BN008276.D

Acq: 21 Oct 2019 11:01

Instrument :

BNA\_N

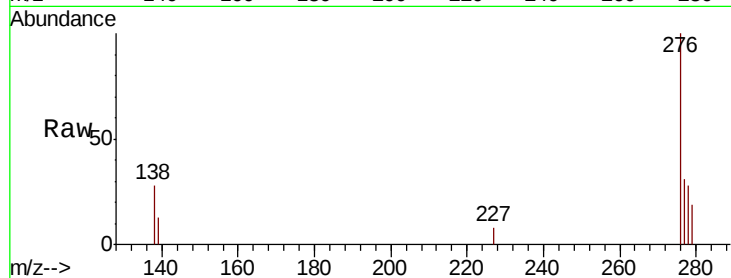
ClientSampleId :

BEPJ8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 48.4  | 15.0  | 22.6# |
| 279     | 68.3  | 22.4  | 33.6# |

Manual Integrations  
APPROVED

mohammad  
10/22/2019 3:26:56 PM

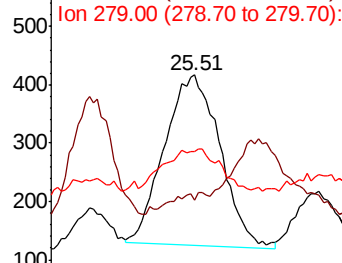


Abundance

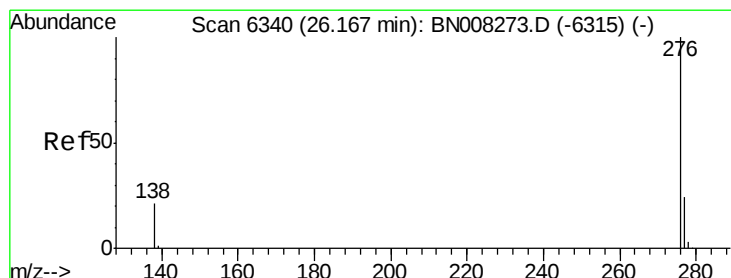
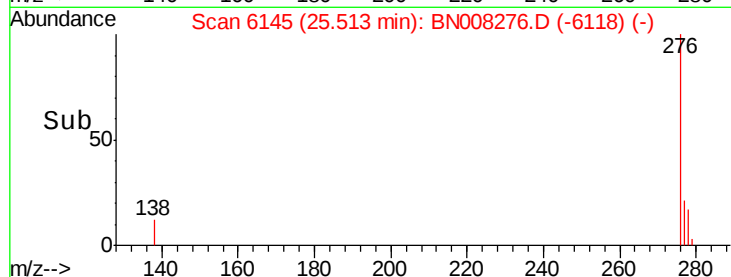
Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time--> 25.40 25.50 25.60



#26

Benzo(g,h,i)perylene

Concen: 0.070 ng/u1

RT: 26.16 min Scan# 6338

Delta R.T. -0.01 min

Lab File: BN008276.D

Acq: 21 Oct 2019 11:01

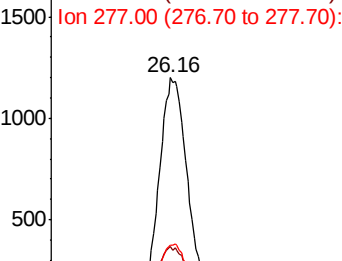
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 30.8  | 17.0  | 25.4# |
| 277     | 31.3  | 20.4  | 30.6# |

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



Time--> 26.00 26.20 26.40

