

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN062219\  
 Data File : BN006486.D  
 Acq On : 22 Jun 2019 13:30  
 Operator : HP/JU  
 Sample : K3362-14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4203

Manual Integrations  
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 6/25/2019 8:44:22 AM

Quant Time: Jun 24 05:46:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN061919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jun 21 22:42:34 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 321144   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.40 | 136  | 1437902  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.28 | 164  | 828136   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.03 | 188  | 1696977  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.26 | 240  | 1137177  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.49 | 264  | 1154966  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.13  | 96  | 32156   | 3.91  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.80  | 99  | 670688  | 19.61 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.96  | 67  | 451133  | 21.31 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.16  | 132 | 536095  | 21.26 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.33  | 113 | 471255  | 17.37 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.78  | 128 | 272146  | 23.64 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.49  | 143 | 303834  | 24.22 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.03 | 165 | 526924  | 21.87 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.55 | 131 | 539158  | 19.45 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.69 | 166 | 1691513 | 23.30 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.97 | 160 | 2022806 | 22.74 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.50 | 143 | 221683  | 17.88 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.28 | 176 | 1430567 | 23.17 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.42 | 200 | 171413  | 15.96 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.13 | 188 | 1978948 | 23.16 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.45 | 212 | 1905402 | 28.69 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.35 | 264 | 1498739 | 22.97 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Qvalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 44) Dimethylphthalate          | 13.74 | 163 | 468506  | 7.002  | ng/ul 100 |
| 69) Phenanthrene               | 17.07 | 178 | 435764  | 4.656  | ng/ul 99  |
| 76) Fluoranthene               | 19.11 | 202 | 1115062 | 11.054 | ng/ul 98  |
| 79) Pyrene                     | 19.47 | 202 | 862957  | 11.146 | ng/ul 98  |
| 82) Benzo(a)anthracene         | 21.24 | 228 | 393756  | 5.066  | ng/ul 98  |
| 83) Bis(2-ethylhexyl)phthalate | 21.17 | 149 | 590554  | 11.863 | ng/ul 99  |
| 84) Chrysene                   | 21.29 | 228 | 421286  | 5.695  | ng/ul 98  |
| 87) Benzo(b)fluoranthene       | 22.82 | 252 | 516236  | 7.448  | ng/ul 99  |
| 88) Benzo(k)fluoranthene       | 22.86 | 252 | 181994m | 2.747  | ng/ul     |
| 90) Benzo(a)pyrene             | 23.39 | 252 | 325392  | 4.896  | ng/ul 99  |
| 91) Indeno(1,2,3-cd)pyrene     | 25.72 | 276 | 231119  | 2.938  | ng/ul 97  |
| 93) Benzo(g,h,i)perylene       | 26.40 | 276 | 192345  | 2.903  | ng/ul 98  |

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

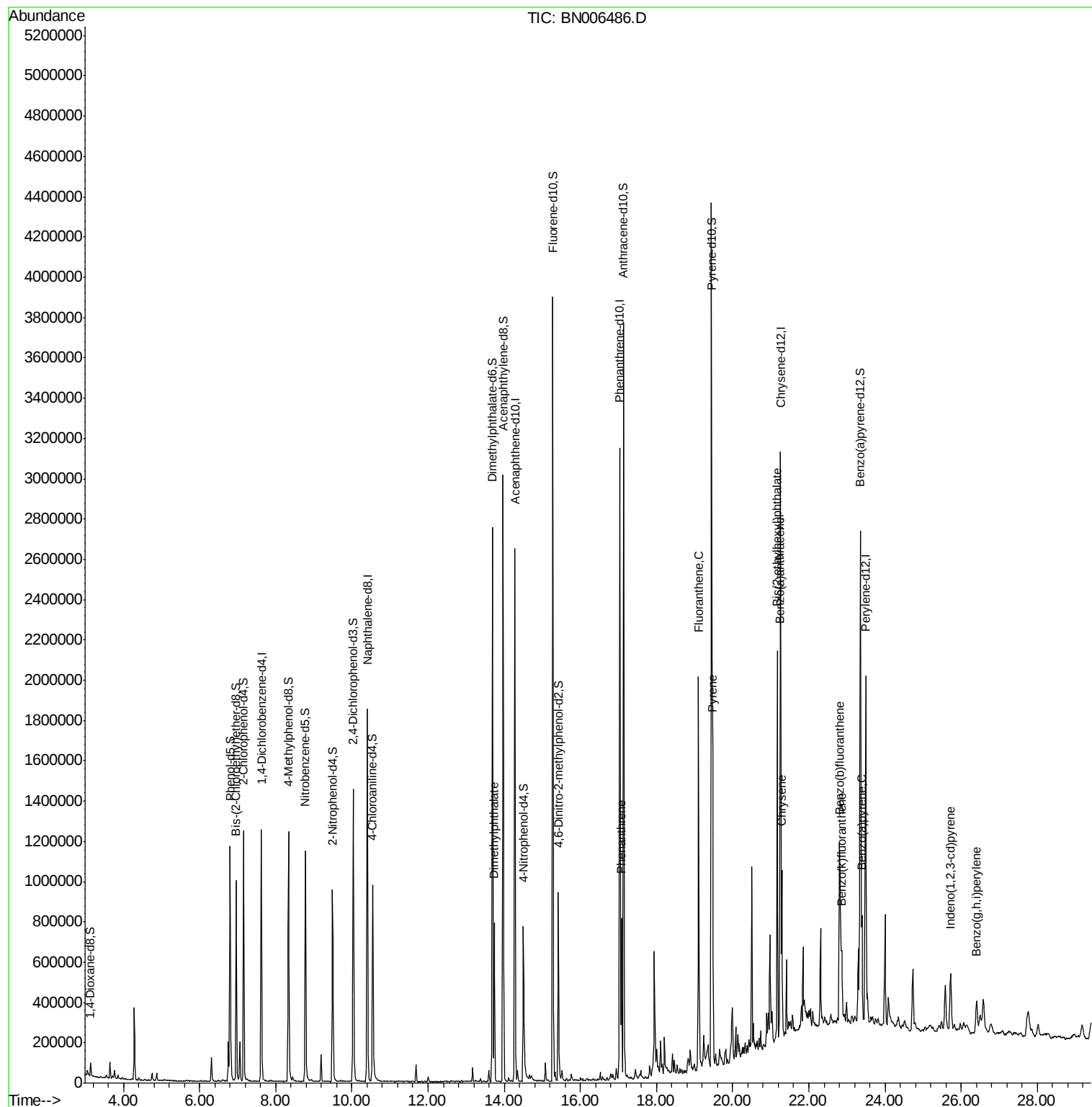
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN062219\  
Data File : BN006486.D  
Acq On : 22 Jun 2019 13:30  
Operator : HP/JU  
Sample : K3362-14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

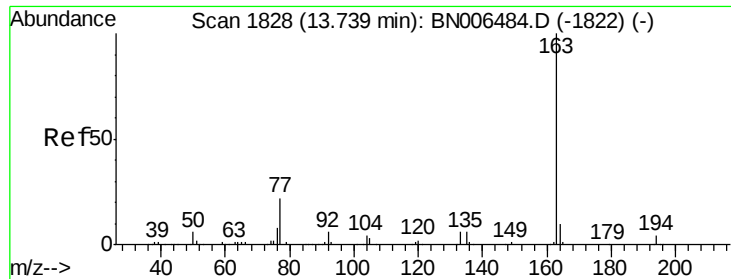
Instrument :  
BNA\_N  
ClientSampleID :  
A4203

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Quant Time: Jun 24 05:46:47 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN061919MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Jun 21 22:42:34 2019  
Response via : Initial Calibration





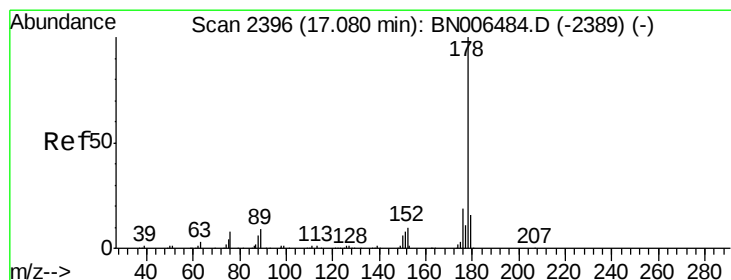
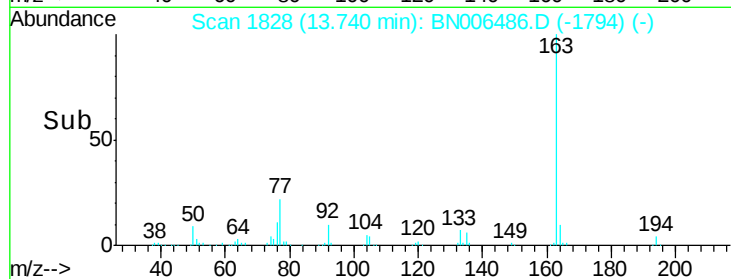
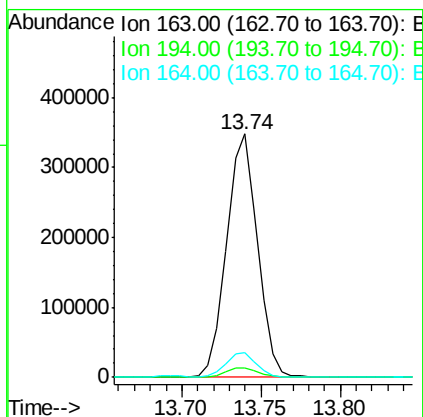
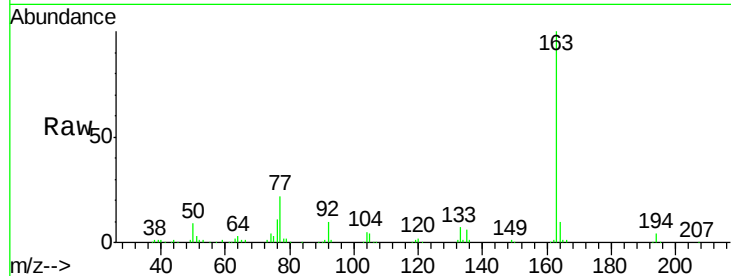
#44  
Dimethylphthalate  
Concen: 7.002 ng/ul  
RT: 13.74 min Scan# 1828  
Delta R.T. 0.00 min  
Lab File: BN006486.D  
Acq: 22 Jun 2019 13:30

Instrument :  
BNA\_N  
ClientSampleId :  
A4203

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 468506 |       |       |
| 194     | 4.1   |        | 3.4   | 5.0   |
| 164     | 10.0  |        | 8.0   | 12.0  |

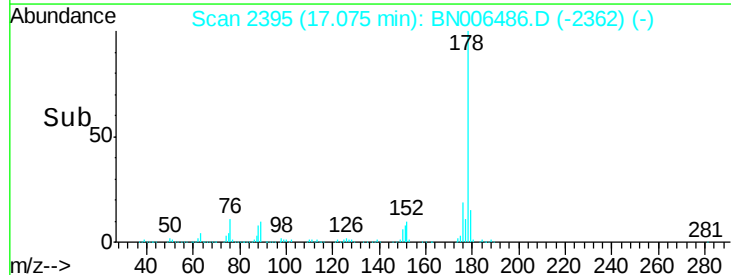
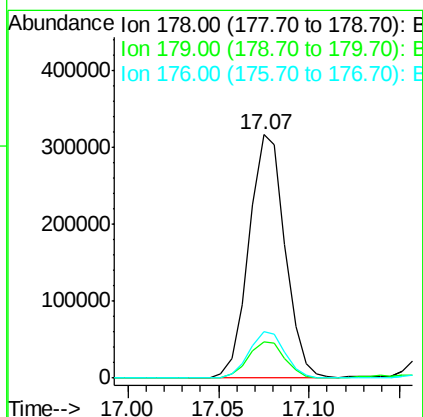
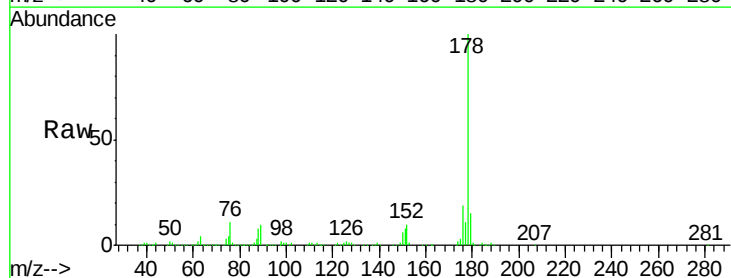
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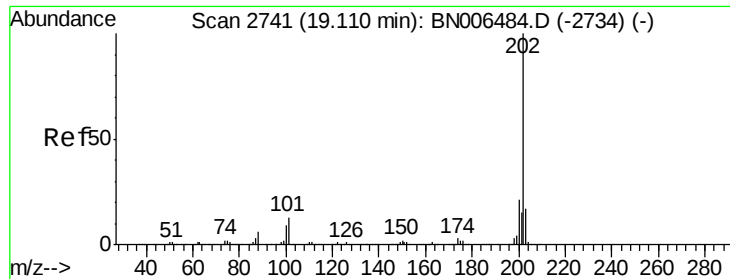
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#69  
Phenanthrene  
Concen: 4.656 ng/ul  
RT: 17.07 min Scan# 2395  
Delta R.T. -0.01 min  
Lab File: BN006486.D  
Acq: 22 Jun 2019 13:30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 435764 |       |       |
| 179     | 14.9  |        | 12.5  | 18.7  |
| 176     | 19.2  |        | 15.3  | 22.9  |





#76

Fluoranthene

Concen: 11.054 ng/ul

RT: 19.11 min Scan# 2741

Delta R.T. 0.00 min

Lab File: BN006486.D

Acq: 22 Jun 2019 13:30

Instrument :

BNA\_N

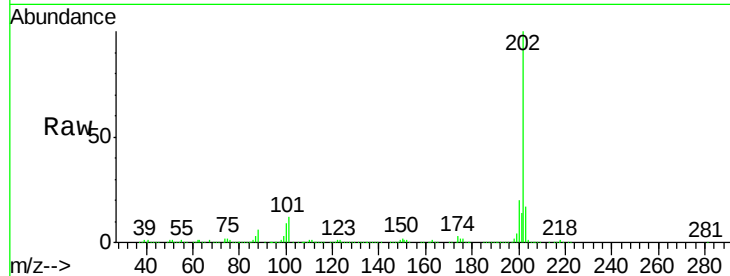
ClientSampleId :

A4203

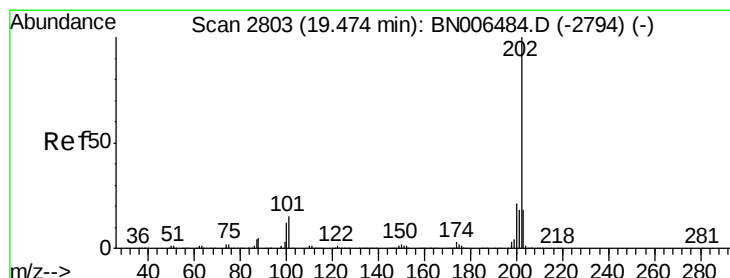
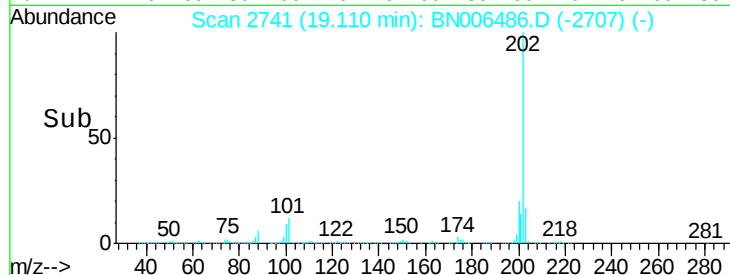
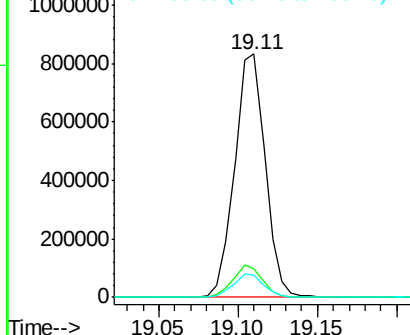
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1115062 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 12.0  | 10.5  | 15.7    |
| 100       | 9.0   | 7.6   | 11.4    |

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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



#79

Pyrene

Concen: 11.146 ng/ul

RT: 19.47 min Scan# 2803

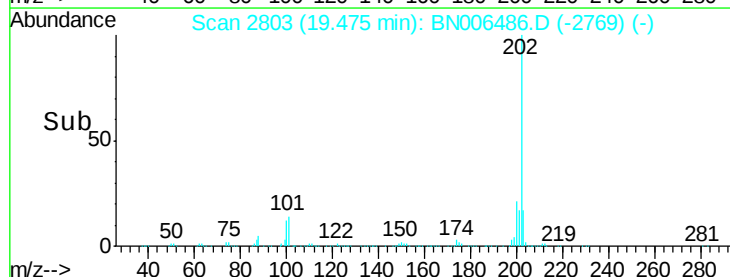
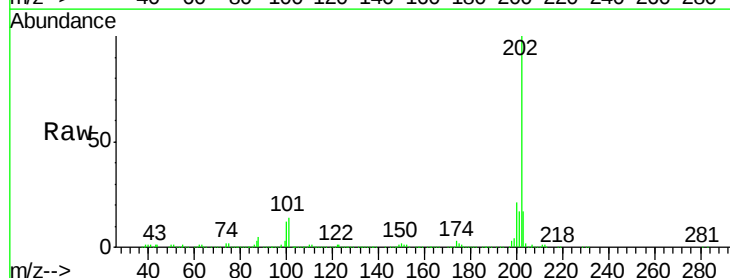
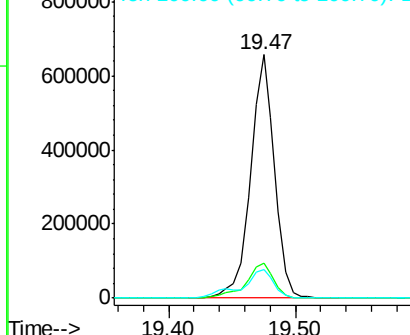
Delta R.T. 0.00 min

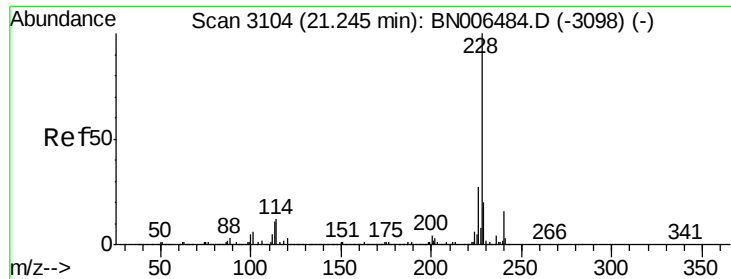
Lab File: BN006486.D

Acq: 22 Jun 2019 13:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 862957 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 14.4  | 12.2  | 18.4   |
| 100       | 11.5  | 9.8   | 14.6   |

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





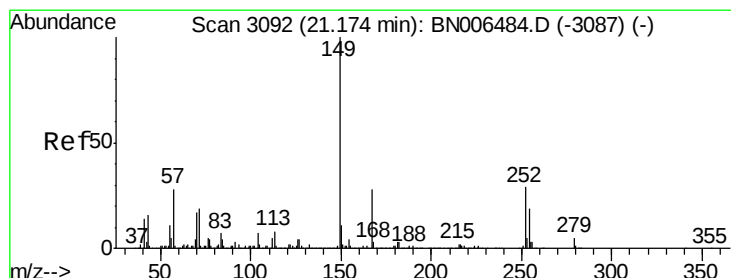
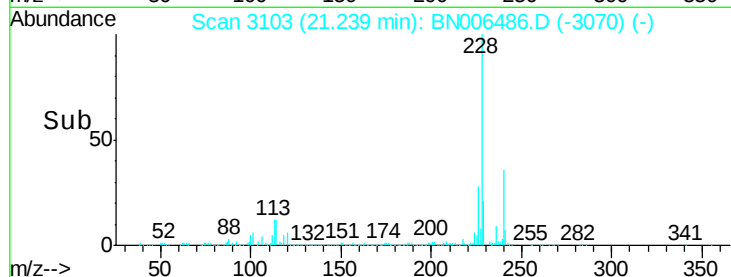
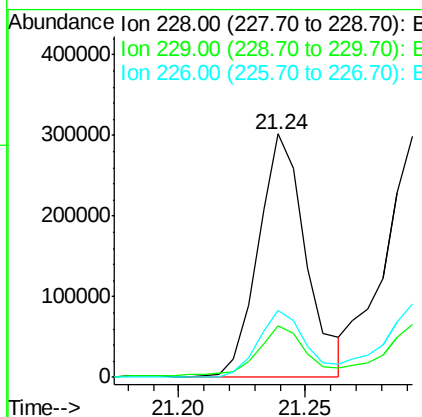
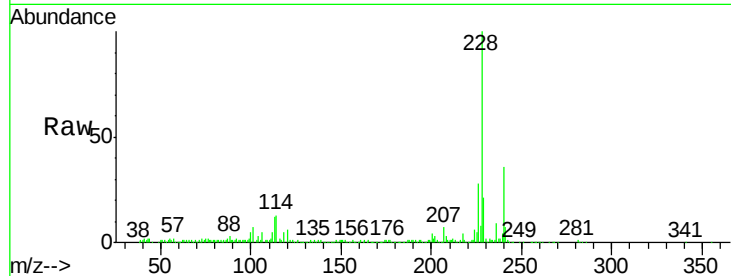
#82  
Benzo(a)anthracene  
Concen: 5.066 ng/ul  
RT: 21.24 min Scan# 3103  
Delta R.T. -0.01 min  
Lab File: BN006486.D  
Acq: 22 Jun 2019 13:30

Instrument :  
BNA\_N  
ClientSampleId :  
A4203

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 393756 |       |       |
| 229     | 21.0  | 15.6   | 23.4  |       |
| 226     | 27.8  | 21.5   | 32.3  |       |

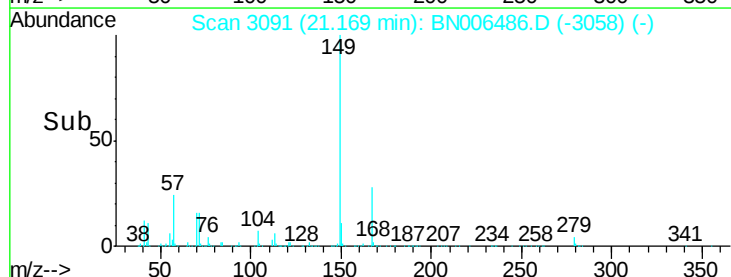
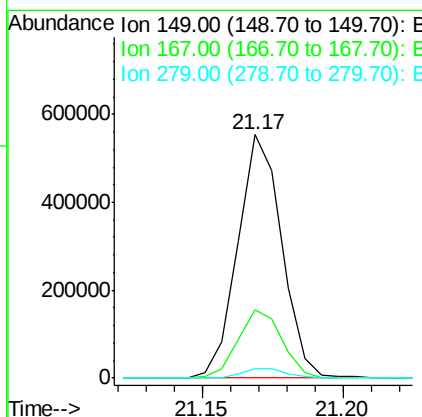
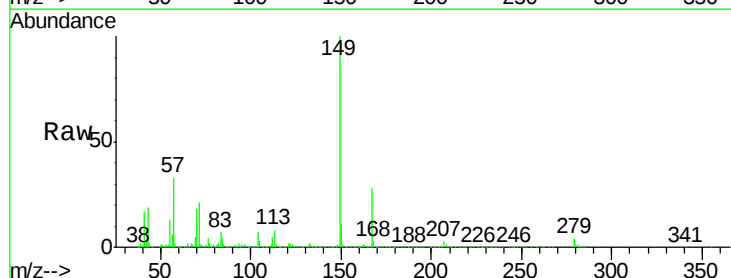
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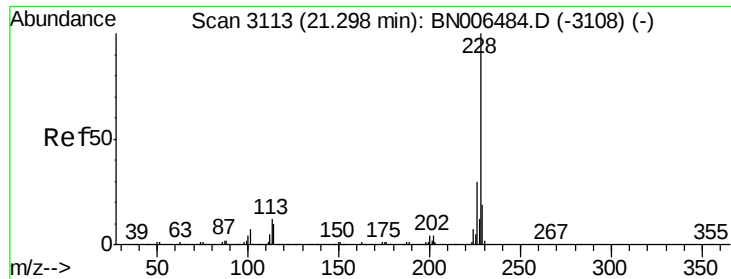
mohammad  
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#83  
Bis(2-ethylhexyl)phthalate  
Concen: 11.863 ng/ul  
RT: 21.17 min Scan# 3091  
Delta R.T. -0.01 min  
Lab File: BN006486.D  
Acq: 22 Jun 2019 13:30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 590554 |       |       |
| 167     | 28.1  | 22.2   | 33.4  |       |
| 279     | 3.8   | 3.3    | 4.9   |       |





#84

Chrysene

Concen: 5.695 ng/ul

RT: 21.29 min Scan# 3112

Delta R.T. -0.01 min

Lab File: BN006486.D

Acq: 22 Jun 2019 13:30

Instrument :

BNA\_N

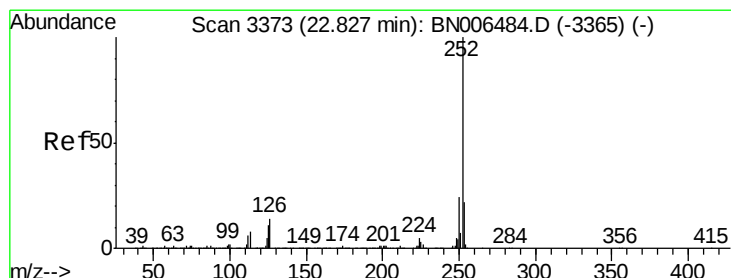
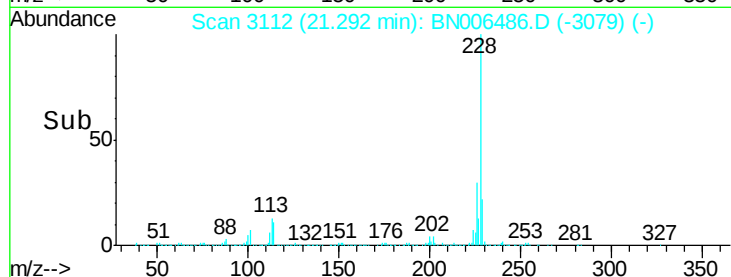
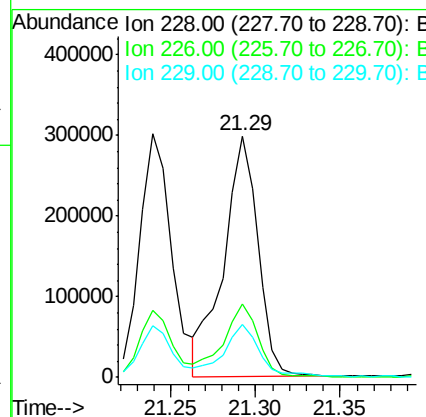
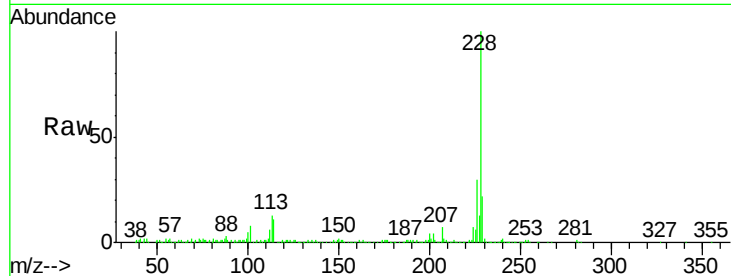
ClientSampleId :

A4203

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 421286 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.1  | 24.2  | 36.2   |
| 229       | 21.8  | 15.9  | 23.9   |

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#87

Benzo(b)fluoranthene

Concen: 7.448 ng/ul

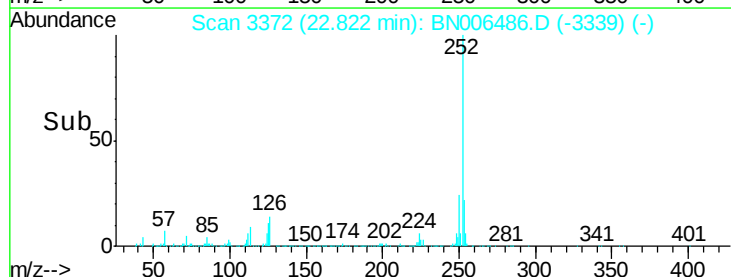
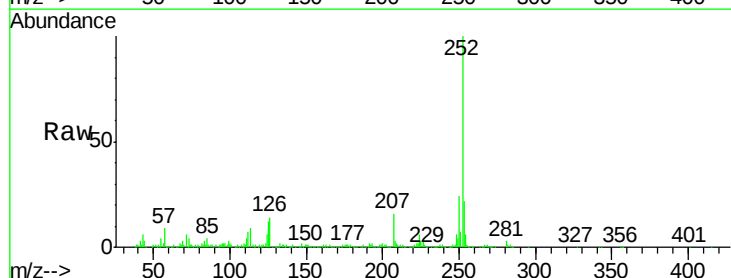
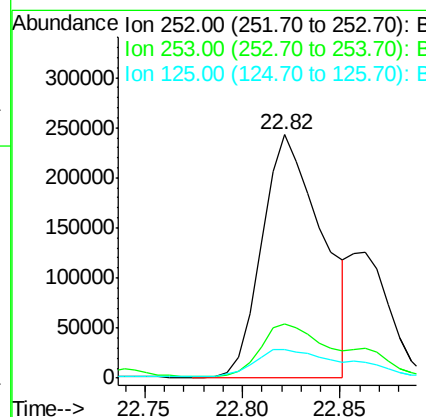
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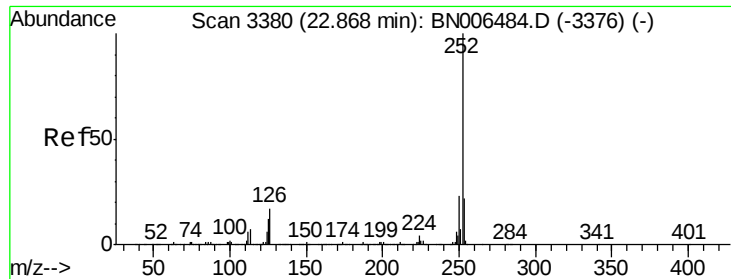
Delta R.T. -0.01 min

Lab File: BN006486.D

Acq: 22 Jun 2019 13:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 516236 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.2  | 17.7  | 26.5   |
| 125       | 12.0  | 9.0   | 13.6   |





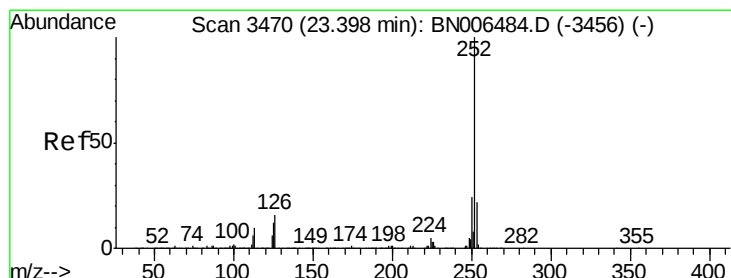
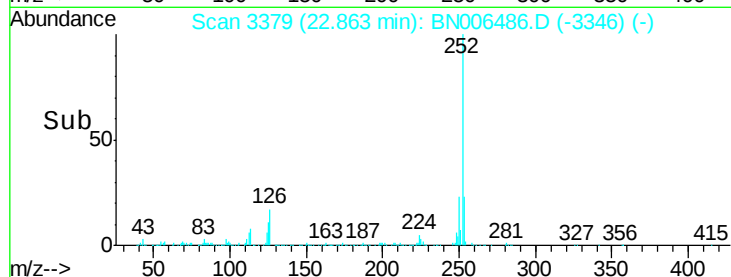
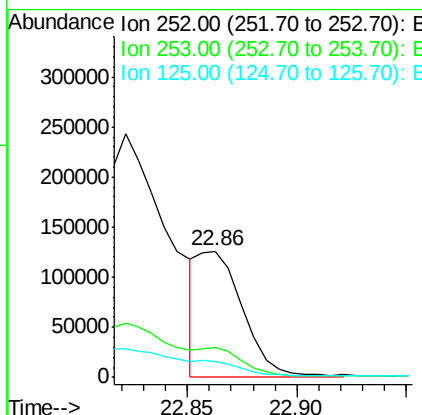
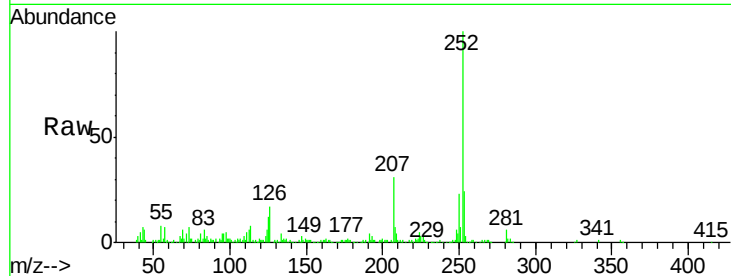
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Benzo(k)fluoranthene  
Concen: 2.747 ng/u1 m  
RT: 22.86 min Scan# 3379  
Delta R.T. -0.01 min  
Lab File: BN006486.D  
Acq: 22 Jun 2019 13:30

Instrument :  
BNA\_N  
ClientSampleId :  
A4203

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.4  | 26.0  |
| 125     | 12.2  | 9.1   | 13.7  |

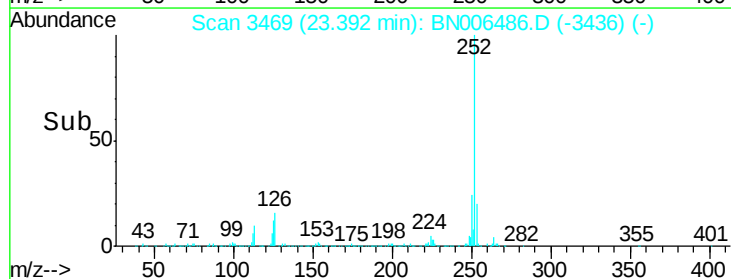
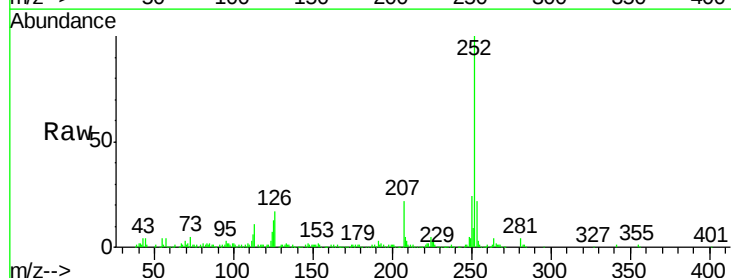
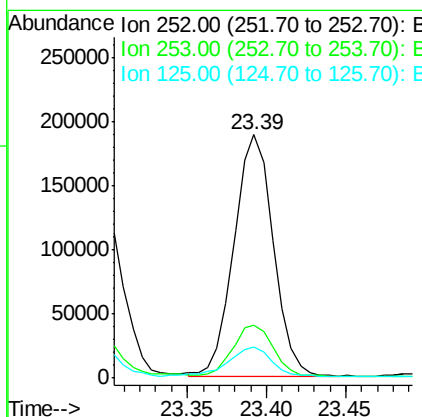
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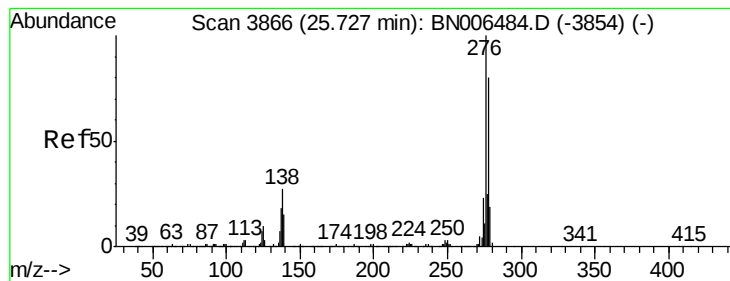
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#90  
Benzo(a)pyrene  
Concen: 4.896 ng/u1  
RT: 23.39 min Scan# 3469  
Delta R.T. -0.01 min  
Lab File: BN006486.D  
Acq: 22 Jun 2019 13:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 17.7  | 26.5  |
| 125     | 12.8  | 10.0  | 15.0  |





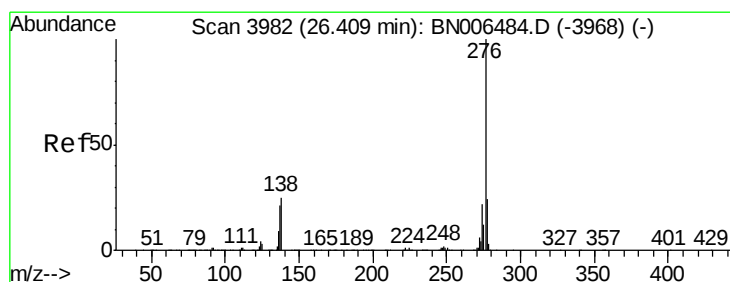
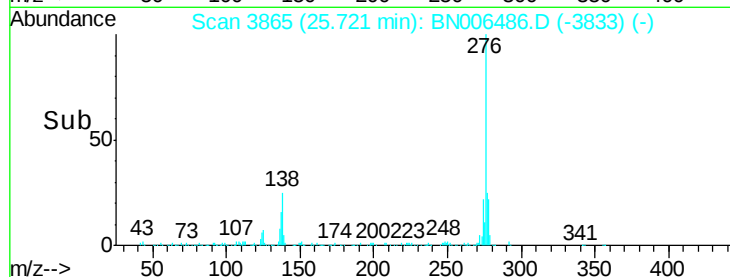
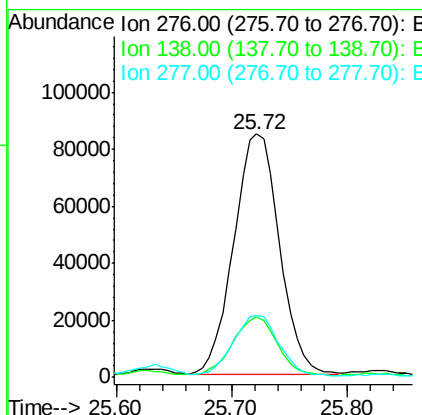
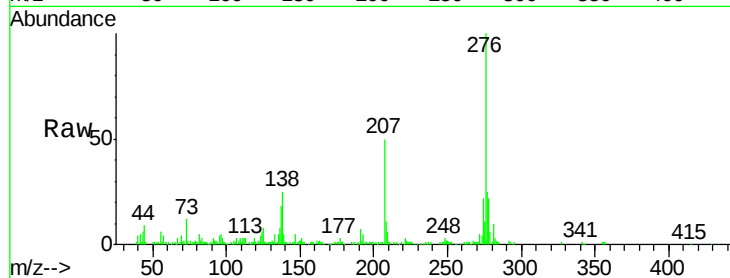
#91  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.938 ng/ul  
 RT: 25.72 min Scan# 3865  
 Delta R.T. -0.01 min  
 Lab File: BN006486.D  
 Acq: 22 Jun 2019 13:30

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4203

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.1  | 22.2  | 33.4  |
| 277     | 25.3  | 20.2  | 30.4  |

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#93  
 Benzo(g,h,i)perylene  
 Concen: 2.903 ng/ul  
 RT: 26.40 min Scan# 3981  
 Delta R.T. -0.01 min  
 Lab File: BN006486.D  
 Acq: 22 Jun 2019 13:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.5  | 19.1  | 28.7  |
| 277     | 24.1  | 19.4  | 29.0  |

