

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM062319\  
 Data File : BM021099.D  
 Acq On : 22 Jun 2019 13:52  
 Operator : HP/JU  
 Sample : K3362-14  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4203

Manual Integrations  
 APPROVED

mohammad  
 6/25/2019 8:35:43 AM

Quant Time: Jun 24 03:42:43 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jun 20 03:45:02 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.78  | 152  | 231001   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.56 | 136  | 1025066  | 20.00 | ng/ul | -0.02    |
| 35) Acenaphthene-d10      | 14.42 | 164  | 675100   | 20.00 | ng/ul | -0.01    |
| 61) Phenanthrene-d10      | 17.16 | 188  | 1688104  | 20.00 | ng/ul | -0.01    |
| 77) Chrysene-d12          | 21.34 | 240  | 1558571  | 20.00 | ng/ul | -0.01    |
| 85) Perylene-d12          | 23.62 | 264  | 1467017  | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.29  | 96  | 17638   | 3.63  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.95  | 99  | 389720  | 19.38 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.12  | 67  | 243431  | 20.32 | ng/ul | -0.01 |
| 9) 2-Chlorophenol-d4           | 7.31  | 132 | 326933  | 20.01 | ng/ul | -0.01 |
| 13) 4-Methylphenol-d8          | 8.48  | 113 | 301363  | 17.96 | ng/ul | -0.01 |
| 19) Nitrobenzene-d5            | 8.94  | 128 | 177970  | 21.38 | ng/ul | -0.01 |
| 22) 2-Nitrophenol-d4           | 9.66  | 143 | 197594  | 21.39 | ng/ul | -0.01 |
| 26) 2,4-Dichlorophenol-d3      | 10.19 | 165 | 402215  | 21.41 | ng/ul | -0.01 |
| 29) 4-Chloroaniline-d4         | 10.71 | 131 | 366847  | 18.72 | ng/ul | -0.01 |
| 43) Dimethylphthalate-d6       | 13.83 | 166 | 1388689 | 22.77 | ng/ul | -0.01 |
| 46) Acenaphthylene-d8          | 14.11 | 160 | 1568922 | 21.01 | ng/ul | -0.01 |
| 51) 4-Nitrophenol-d4           | 14.62 | 143 | 156071  | 15.73 | ng/ul | -0.01 |
| 57) Fluorene-d10               | 15.41 | 176 | 1218865 | 22.97 | ng/ul | -0.01 |
| 62) 4,6-Dinitro-2-methylphenol | 15.54 | 200 | 150585  | 14.51 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.26 | 188 | 1890433 | 21.55 | ng/ul | -0.01 |
| 78) Pyrene-d10                 | 19.56 | 212 | 2097158 | 22.42 | ng/ul | -0.01 |
| 89) Benzo(a)pyrene-d12         | 23.47 | 264 | 1785628 | 20.63 | ng/ul | -0.01 |

## Target Compounds

|                                |       |     |         |        |       | Qvalue |
|--------------------------------|-------|-----|---------|--------|-------|--------|
| 44) Dimethylphthalate          | 13.87 | 163 | 425274  | 7.659  | ng/ul | 98     |
| 69) Phenanthrene               | 17.20 | 178 | 446746  | 4.785  | ng/ul | 99     |
| 76) Fluoranthene               | 19.22 | 202 | 1346092 | 13.344 | ng/ul | 99     |
| 79) Pyrene                     | 19.59 | 202 | 1064671 | 9.663  | ng/ul | 100    |
| 82) Benzo(a)anthracene         | 21.33 | 228 | 539742  | 5.080  | ng/ul | 99     |
| 83) Bis(2-ethylhexyl)phthalate | 21.26 | 149 | 621358  | 10.700 | ng/ul | 100    |
| 84) Chrysene                   | 21.38 | 228 | 597173  | 6.001  | ng/ul | 97     |
| 87) Benzo(b)fluoranthene       | 22.94 | 252 | 727028  | 7.824  | ng/ul | 98     |
| 88) Benzo(k)fluoranthene       | 22.98 | 252 | 231327m | 2.588  | ng/ul |        |
| 90) Benzo(a)pyrene             | 23.52 | 252 | 415836  | 4.754  | ng/ul | 99     |
| 91) Indeno(1,2,3-cd)pyrene     | 25.91 | 276 | 288229  | 2.798  | ng/ul | 95     |
| 93) Benzo(g,h,i)perylene       | 26.61 | 276 | 234649  | 2.766  | ng/ul | 98     |

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

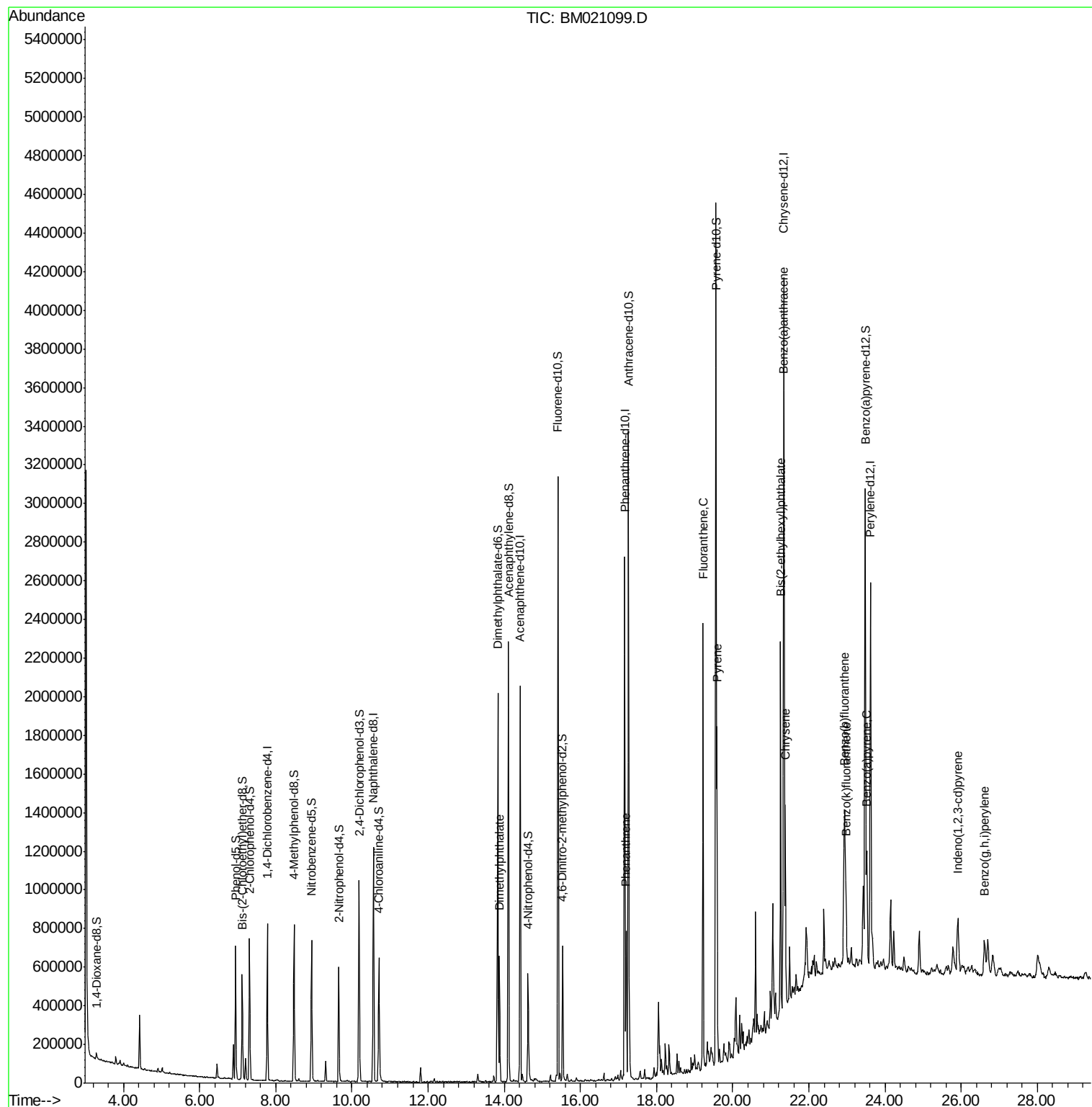
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM062319\  
Data File : BM021099.D  
Acq On : 22 Jun 2019 13:52  
Operator : HP/JU  
Sample : K3362-14  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

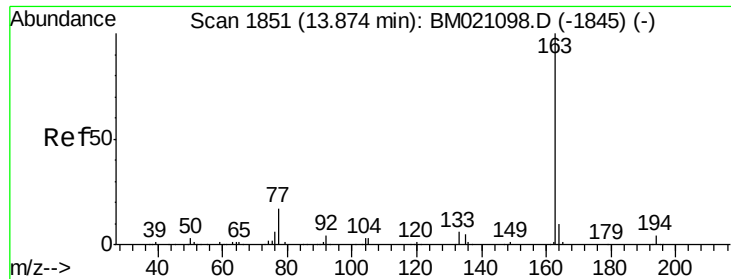
Instrument :  
BNA\_M  
ClientSampleId :  
A4203

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Quant Time: Jun 24 03:42:43 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 20 03:45:02 2019  
Response via : Initial Calibration





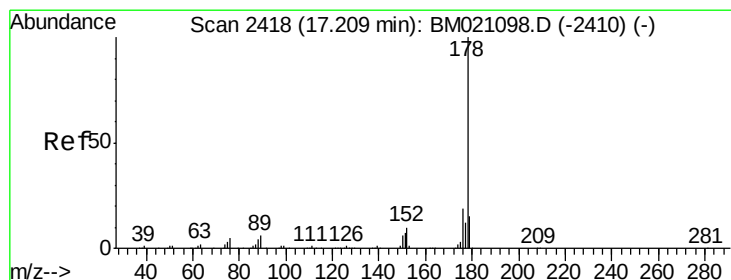
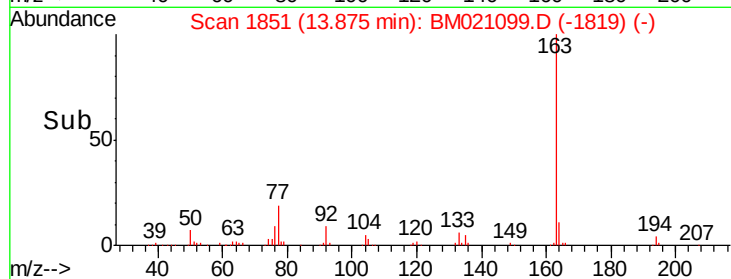
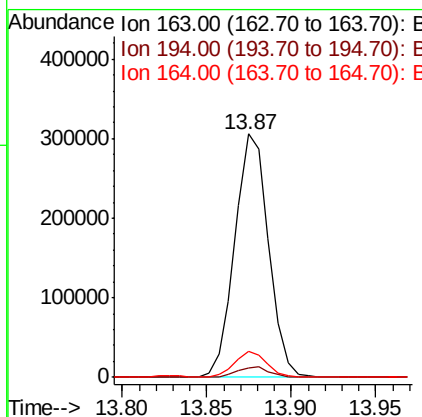
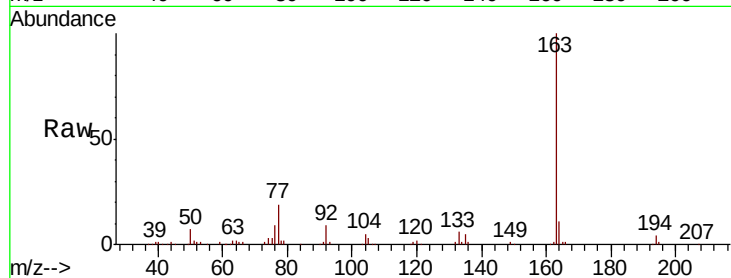
#44  
Dimethylphthalate  
Concen: 7.659 ng/ul  
RT: 13.87 min Scan# 1851  
Delta R.T. -0.01 min  
Lab File: BM021099.D  
Acq: 22 Jun 2019 13:52

Instrument :  
BNA\_M  
ClientSampleId :  
A4203

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.9   | 3.4   | 5.2   |
| 164     | 10.6  | 7.7   | 11.5  |

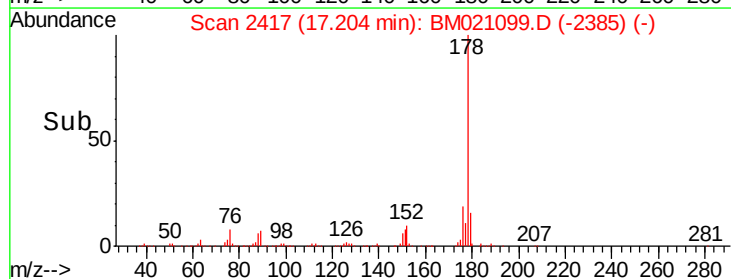
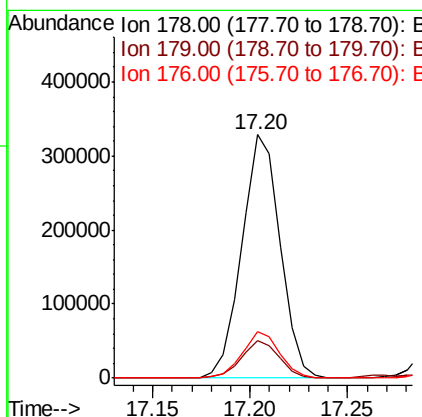
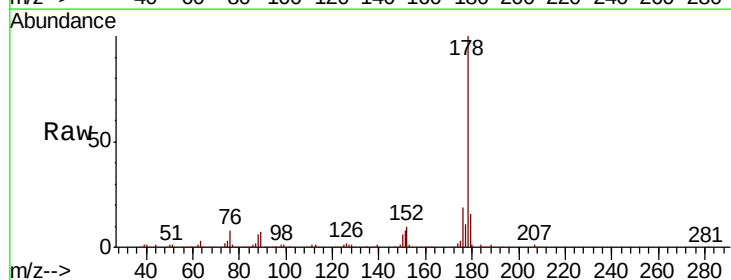
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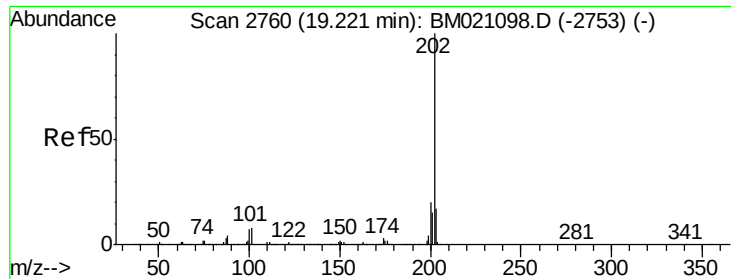
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#69  
Phenanthrene  
Concen: 4.785 ng/ul  
RT: 17.20 min Scan# 2417  
Delta R.T. -0.01 min  
Lab File: BM021099.D  
Acq: 22 Jun 2019 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.6  | 11.8  | 17.8  |
| 176     | 19.1  | 15.0  | 22.6  |





#76

Fluoranthene

Concen: 13.344 ng/ul

RT: 19.22 min Scan# 2760

Delta R.T. -0.01 min

Lab File: BM021099.D

Acq: 22 Jun 2019 13:52

Instrument :

BNA\_M

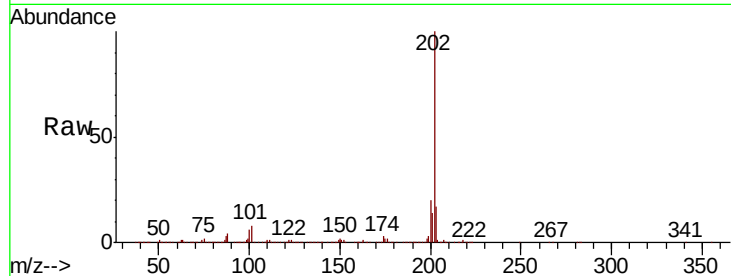
ClientSampleId :

A4203

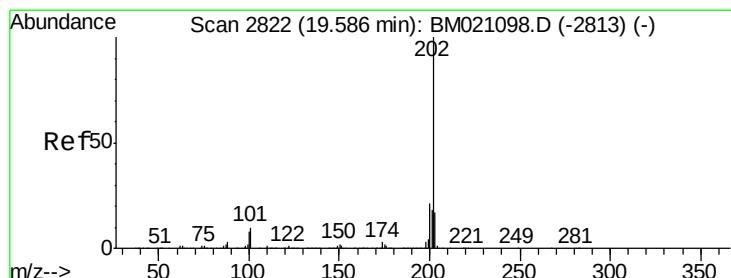
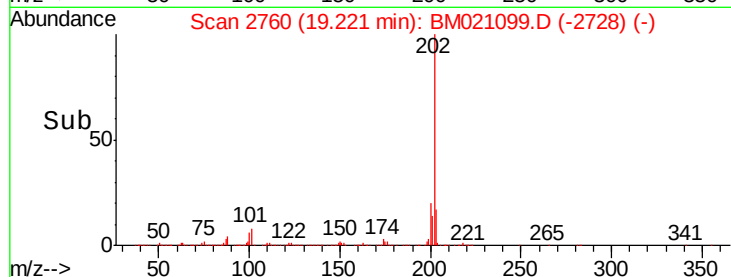
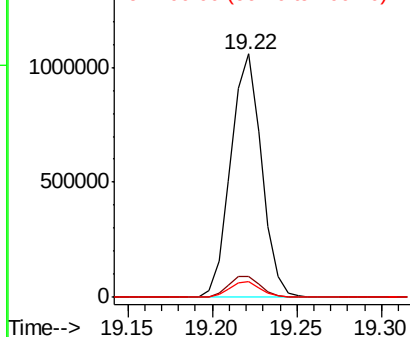
|     |         |       |         |
|-----|---------|-------|---------|
| Tgt | Ion:202 | Resp: | 1346092 |
| Ion | Ratio   | Lower | Upper   |
| 202 | 100     |       |         |
| 101 | 8.3     | 6.7   | 10.1    |
| 100 | 6.5     | 5.5   | 8.3     |

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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: 9.663 ng/ul

RT: 19.59 min Scan# 2822

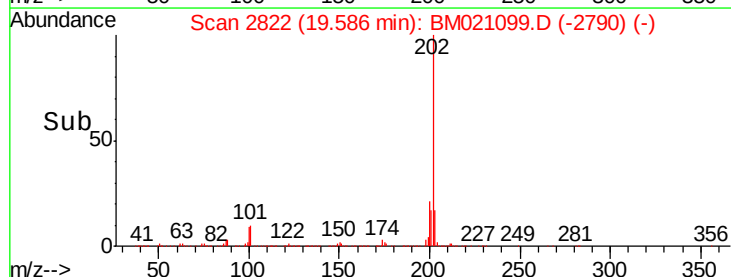
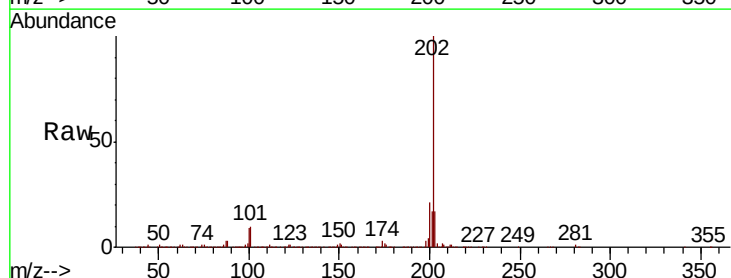
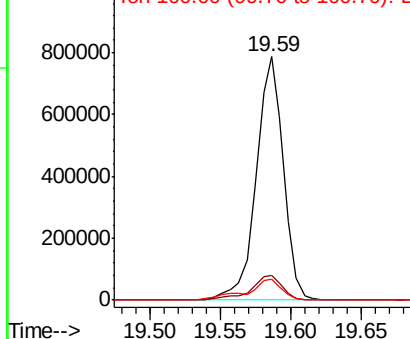
Delta R.T. -0.01 min

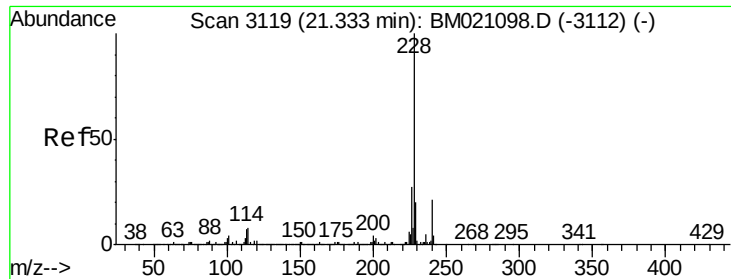
Lab File: BM021099.D

Acq: 22 Jun 2019 13:52

|     |         |       |         |
|-----|---------|-------|---------|
| Tgt | Ion:202 | Resp: | 1064671 |
| Ion | Ratio   | Lower | Upper   |
| 202 | 100     |       |         |
| 101 | 10.1    | 8.1   | 12.1    |
| 100 | 8.5     | 6.6   | 10.0    |

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





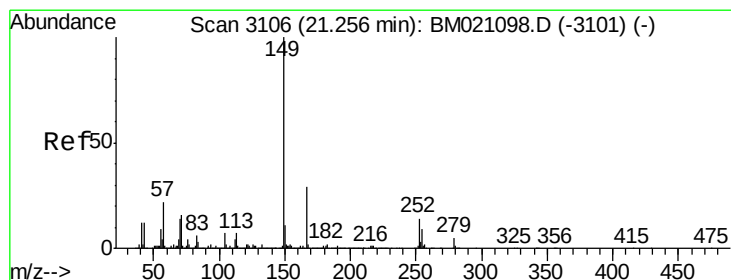
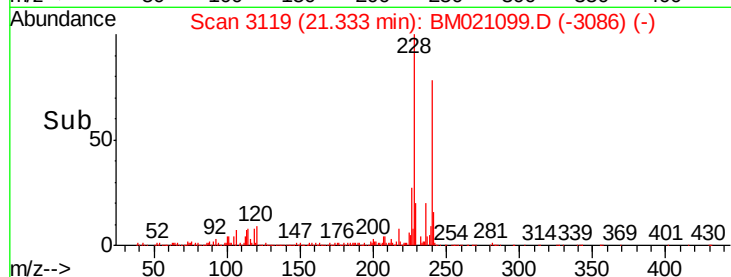
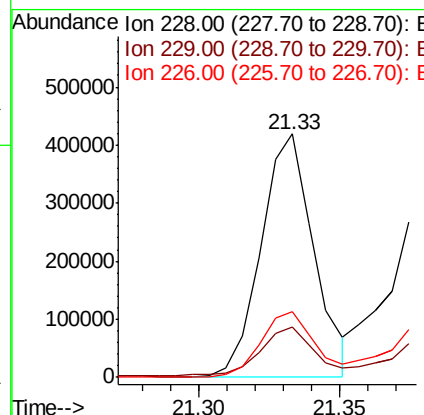
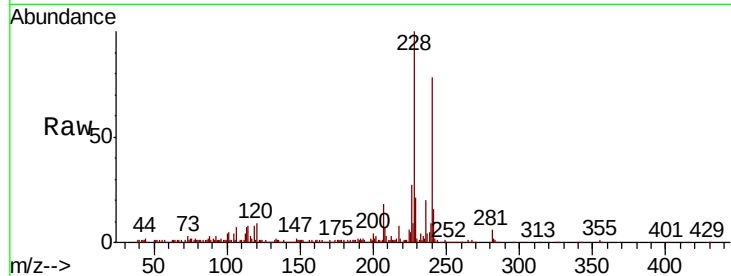
#82  
 Benzo(a)anthracene  
 Concen: 5.080 ng/ul  
 RT: 21.33 min Scan# 3119  
 Delta R.T. -0.01 min  
 Lab File: BM021099.D  
 Acq: 22 Jun 2019 13:52

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4203

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.6  | 15.8  | 23.8  |
| 226     | 27.2  | 21.4  | 32.2  |

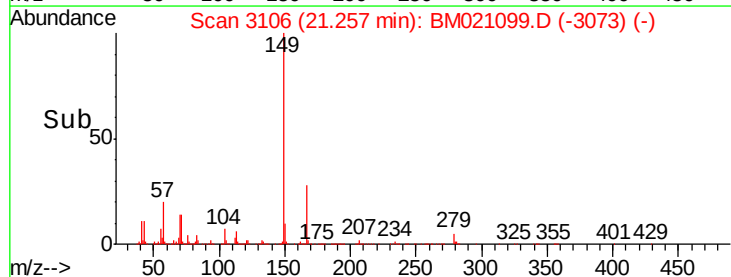
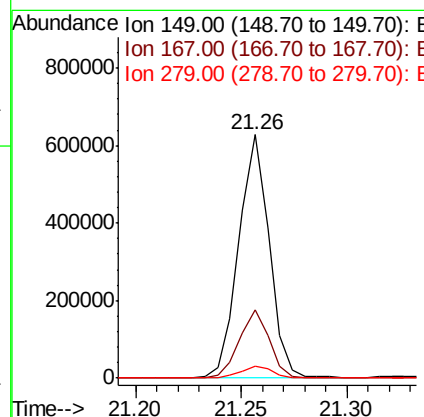
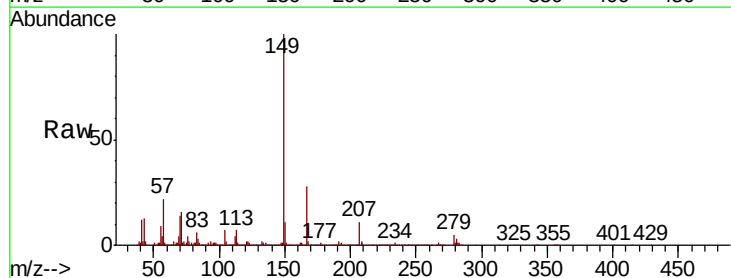
Manual Integrations  
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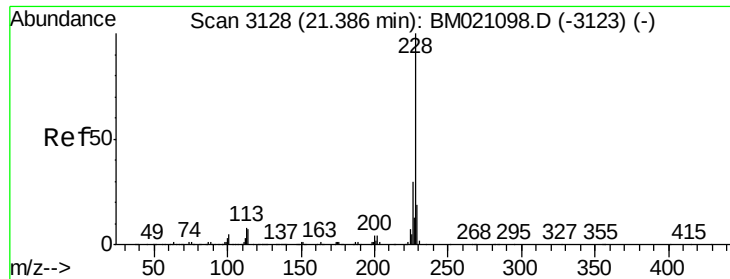
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#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 10.700 ng/ul  
 RT: 21.26 min Scan# 3106  
 Delta R.T. -0.01 min  
 Lab File: BM021099.D  
 Acq: 22 Jun 2019 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.0  | 22.3  | 33.5  |
| 279     | 5.1   | 3.8   | 5.6   |





#84

Chrysene

Concen: 6.001 ng/ul

RT: 21.38 min Scan# 3127

Delta R.T. -0.01 min

Lab File: BM021099.D

Acq: 22 Jun 2019 13:52

Instrument :

BNA\_M

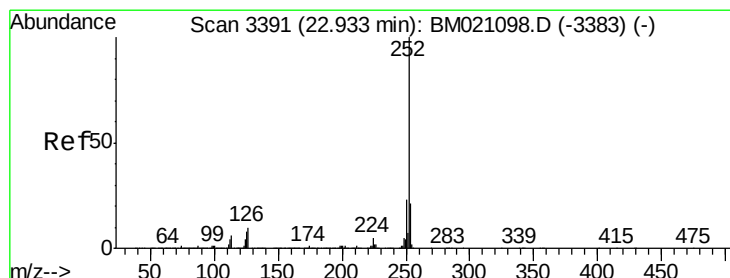
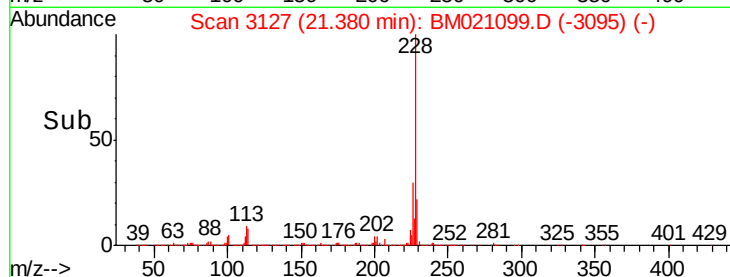
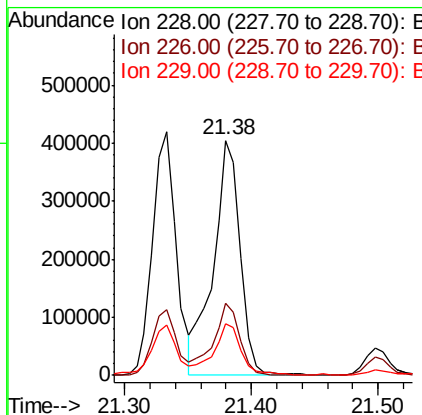
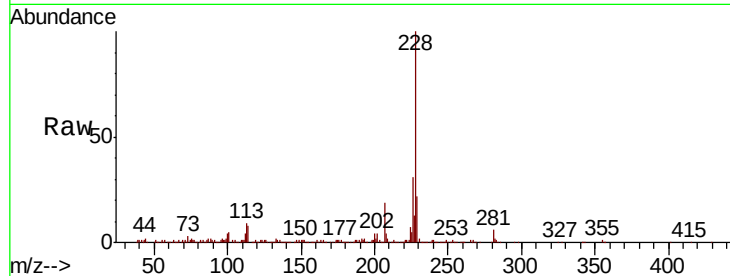
ClientSampleId :

A4203

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 597173 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.6  | 23.9  | 35.9   |
| 229       | 21.7  | 15.4  | 23.2   |

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#87

Benzo(b)fluoranthene

Concen: 7.824 ng/ul

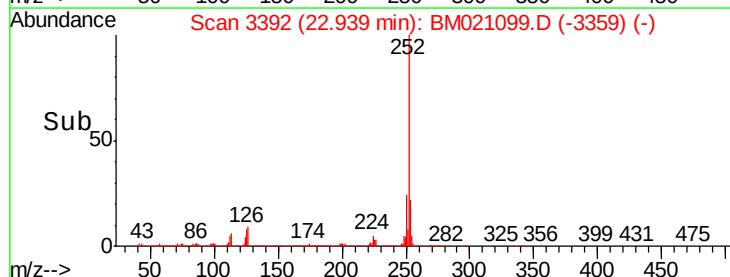
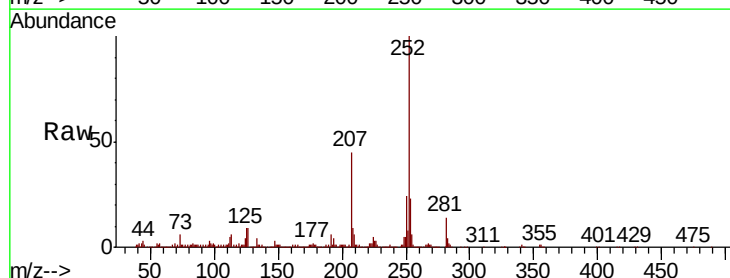
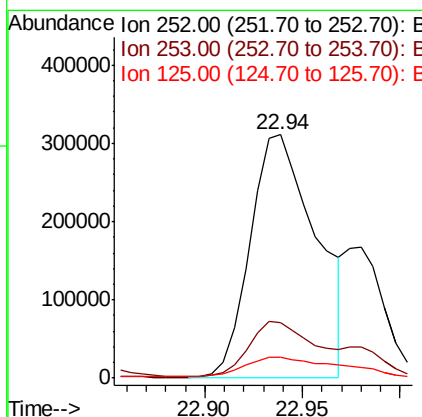
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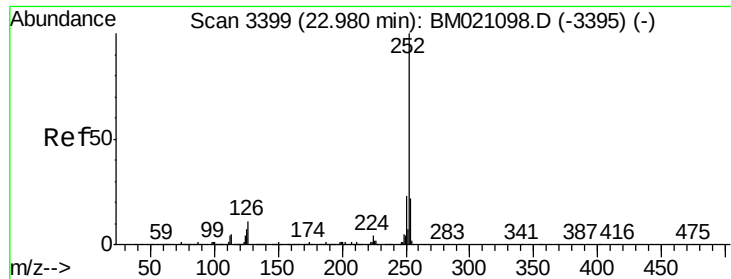
Delta R.T. -0.01 min

Lab File: BM021099.D

Acq: 22 Jun 2019 13:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 727028 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.7  | 17.5  | 26.3   |
| 125       | 8.7   | 6.3   | 9.5    |





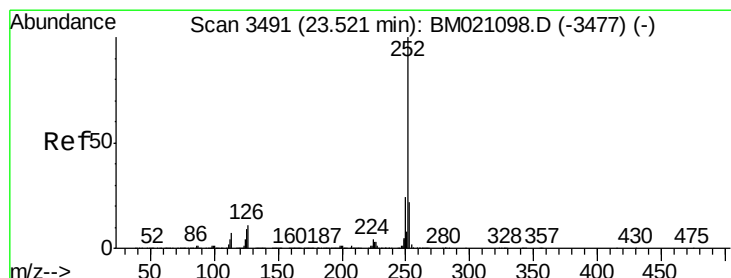
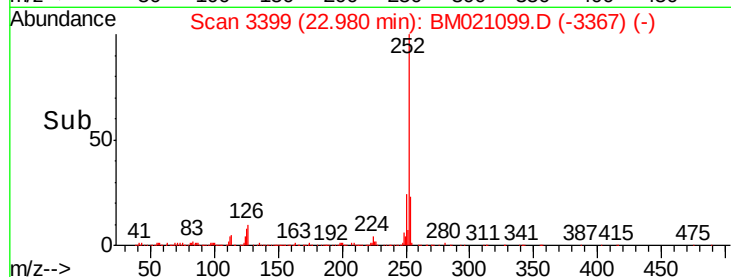
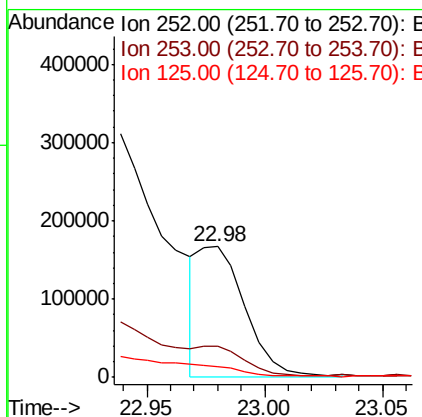
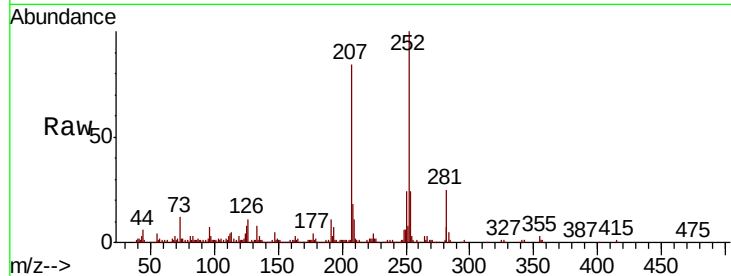
#88  
Benzo(k)fluoranthene  
Concen: 2.588 ng/ul m  
RT: 22.98 min Scan# 3399  
Delta R.T. -0.01 min  
Lab File: BM021099.D  
Acq: 22 Jun 2019 13:52

Instrument :  
BNA\_M  
ClientSampleId :  
A4203

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 231327 |       |       |
| 253     | 23.7  | 17.5   | 26.3  |       |
| 125     | 8.5   | 6.6    | 9.8   |       |

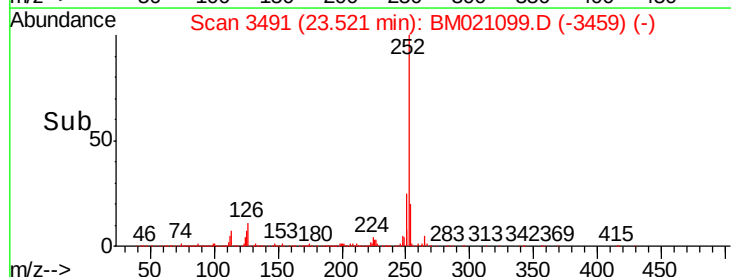
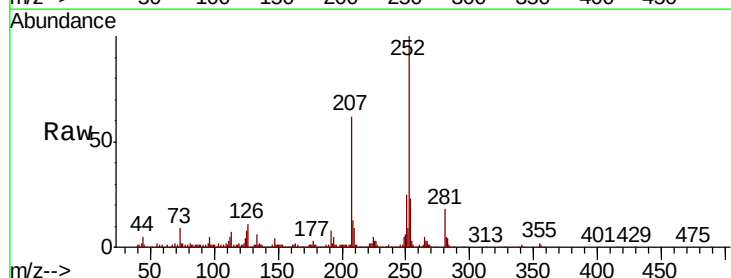
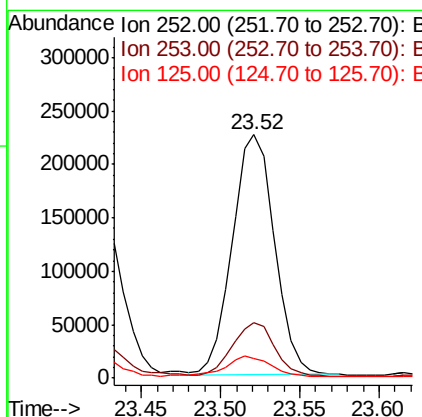
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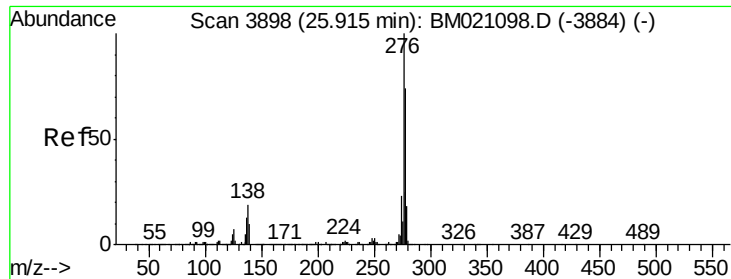
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#90  
Benzo(a)pyrene  
Concen: 4.754 ng/ul  
RT: 23.52 min Scan# 3491  
Delta R.T. -0.01 min  
Lab File: BM021099.D  
Acq: 22 Jun 2019 13:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 415836 |       |       |
| 253     | 22.6  | 17.8   | 26.8  |       |
| 125     | 8.3   | 7.2    | 10.8  |       |





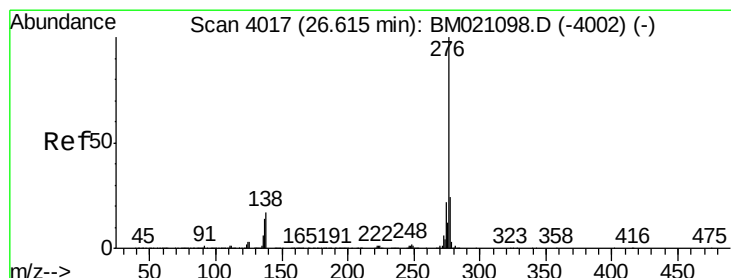
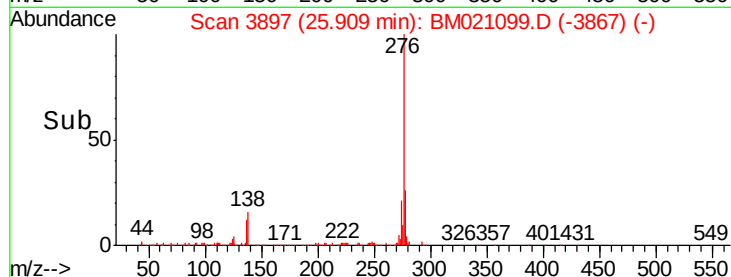
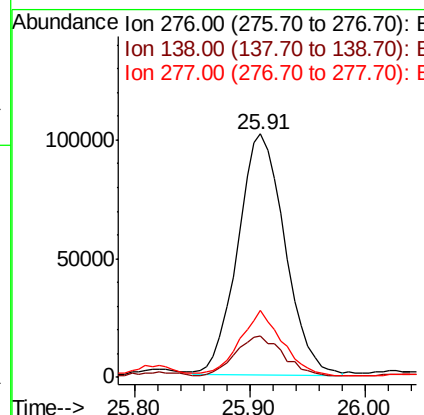
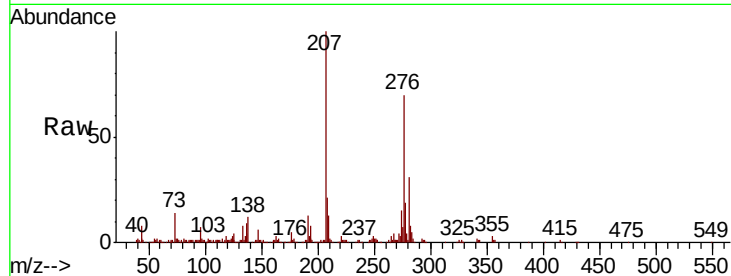
#91  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.798 ng/ul  
 RT: 25.91 min Scan# 3897  
 Delta R.T. -0.02 min  
 Lab File: BM021099.D  
 Acq: 22 Jun 2019 13:52

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4203

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.0  | 15.9  | 23.9  |
| 277     | 27.3  | 20.4  | 30.6  |

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#93  
 Benzo(g,h,i)perylene  
 Concen: 2.766 ng/ul  
 RT: 26.61 min Scan# 4016  
 Delta R.T. -0.03 min  
 Lab File: BM021099.D  
 Acq: 22 Jun 2019 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.1  | 14.6  | 21.8  |
| 277     | 24.1  | 18.9  | 28.3  |

