

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN052219\  
 Data File : BN005875.D  
 Acq On : 23 May 2019 05:51  
 Operator : JU/SJ  
 Sample : K2927-08  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A42A5

Manual Integrations  
 APPROVED

mohammad  
 5/23/2019 3:31:32 PM

Quant Time: May 23 07:25:07 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 22 04:04:33 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.56  | 152  | 80145    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.32 | 136  | 344654   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.20 | 164  | 235101   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.96 | 188  | 596741   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.19 | 240  | 693309   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.40 | 264  | 711227   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.18  | 96  | 7267    | 5.08  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.76  | 99  | 155999  | 25.19 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.90  | 67  | 87799   | 27.17 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.10  | 132 | 137747  | 27.66 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.28  | 113 | 124225  | 23.45 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.71  | 128 | 68621   | 27.42 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.43  | 143 | 76550   | 26.50 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.98  | 165 | 144986  | 26.29 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.48 | 131 | 125270m | 20.46 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.62 | 166 | 503281  | 27.82 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.89 | 160 | 610809  | 27.79 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.48 | 143 | 49999m  | 19.62 | ng/ul | 0.02 |
| 57) Fluorene-d10               | 15.20 | 176 | 459476  | 29.58 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.38 | 200 | 24903   | 6.94  | ng/ul | 0.01 |
| 70) Anthracene-d10             | 17.06 | 188 | 734049  | 28.47 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.37 | 212 | 913597  | 26.74 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.26 | 264 | 867827  | 27.20 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       | Ovalue |    |
|--------------------------------|-------|-----|--------|-------|--------|----|
| 44) Dimethylphthalate          | 13.67 | 163 | 143949 | 8.071 | ng/ul  | 98 |
| 69) Phenanthrene               | 17.00 | 178 | 86174  | 2.913 | ng/ul  | 99 |
| 76) Fluoranthene               | 19.04 | 202 | 254302 | 6.954 | ng/ul# | 88 |
| 79) Pyrene                     | 19.40 | 202 | 260112 | 6.109 | ng/ul# | 89 |
| 82) Benzo(a)anthracene         | 21.18 | 228 | 143463 | 3.285 | ng/ul  | 99 |
| 83) Bis(2-ethylhexyl)phthalate | 21.12 | 149 | 35220  | 1.423 | ng/ul# | 95 |
| 84) Chrysene                   | 21.23 | 228 | 170613 | 4.144 | ng/ul  | 97 |
| 87) Benzo(b)fluoranthene       | 22.75 | 252 | 186198 | 4.759 | ng/ul# | 95 |
| 88) Benzo(k)fluoranthene       | 22.79 | 252 | 48341m | 1.277 | ng/ul  |    |
| 90) Benzo(a)pyrene             | 23.30 | 252 | 106730 | 2.817 | ng/ul# | 95 |
| 91) Indeno(1,2,3-cd)pyrene     | 25.60 | 276 | 71816  | 1.550 | ng/ul# | 88 |
| 93) Benzo(g,h,i)perylene       | 26.27 | 276 | 49399  | 1.276 | ng/ul# | 91 |

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

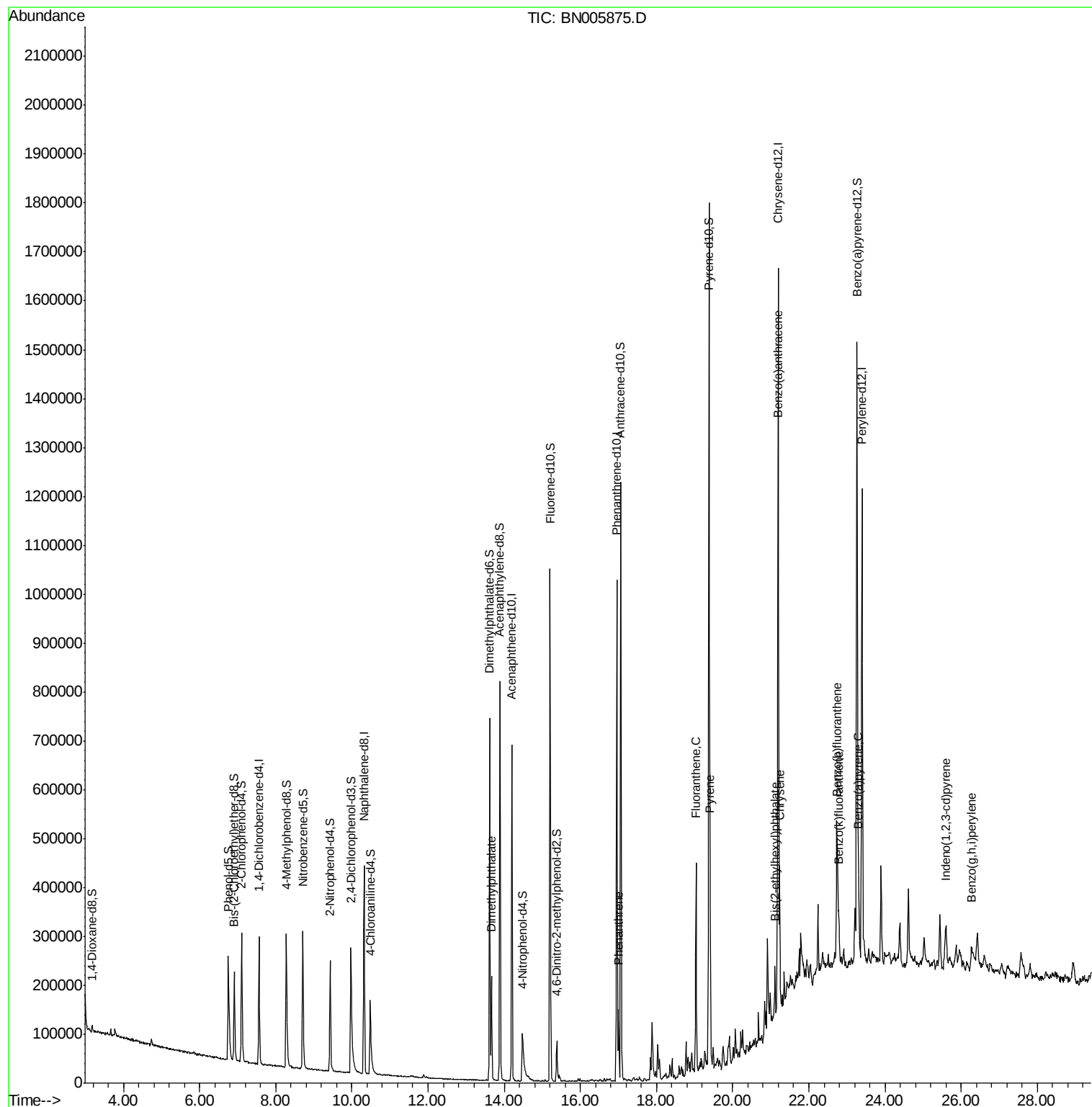
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN052219\  
Data File : BN005875.D  
Acq On : 23 May 2019 05:51  
Operator : JU/SJ  
Sample : K2927-08  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

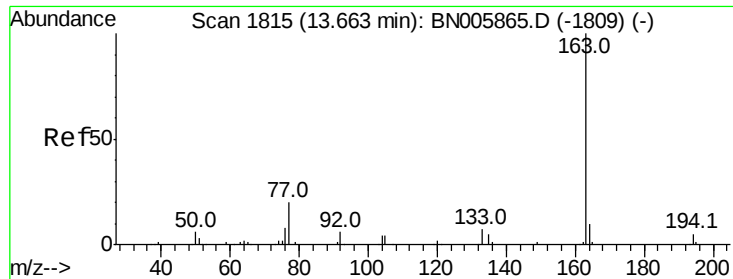
Instrument :  
BNA\_N  
ClientSampleId :  
A42A5

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Quant Time: May 23 07:25:07 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed May 22 04:04:33 2019  
Response via : Initial Calibration





#44

Dimethylphthalate

Concen: 8.071 ng/ul

RT: 13.67 min Scan# 1816

Delta R.T. 0.01 min

Lab File: BN005875.D

Acq: 23 May 2019 05:51

Instrument :

BNA\_N

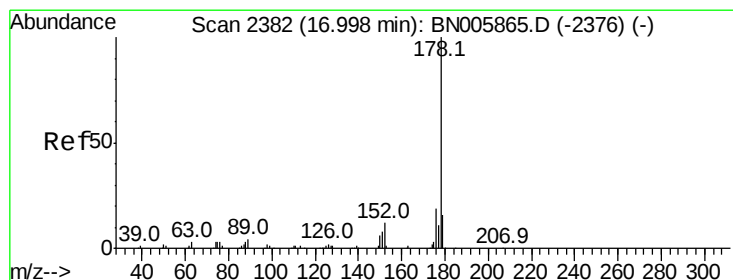
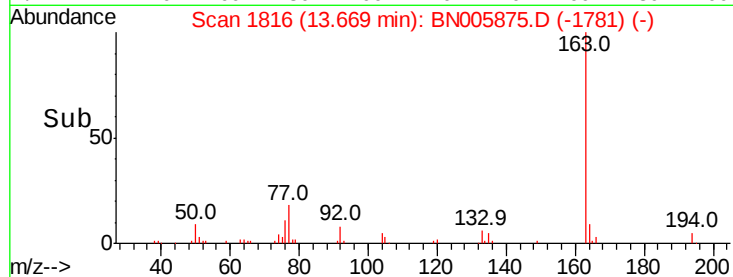
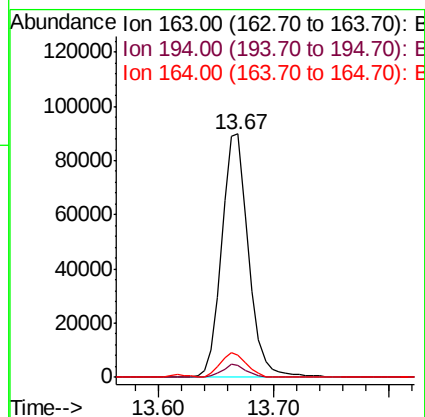
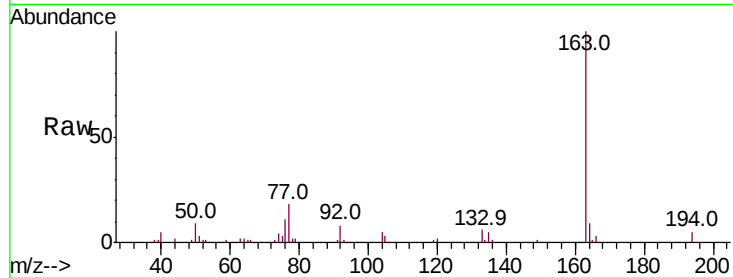
ClientSampleId :

A42A5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 143949 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.8   | 3.4   | 5.0    |
| 164       | 9.3   | 8.1   | 12.1   |

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#69

Phenanthrene

Concen: 2.913 ng/ul

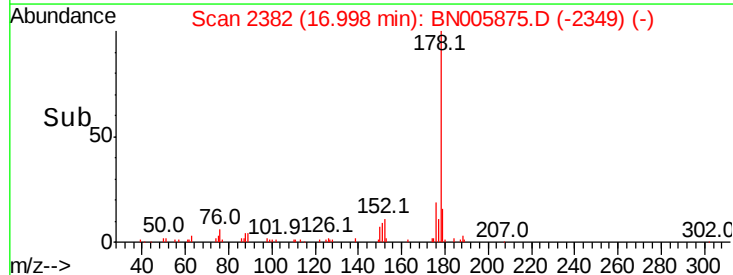
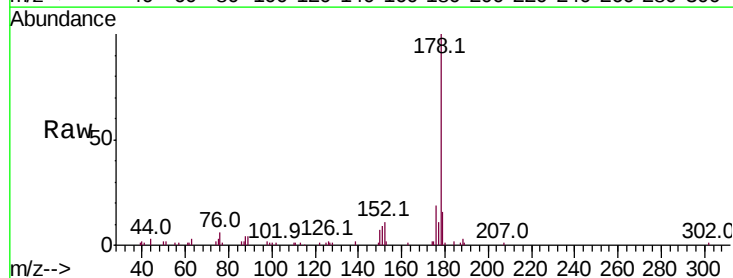
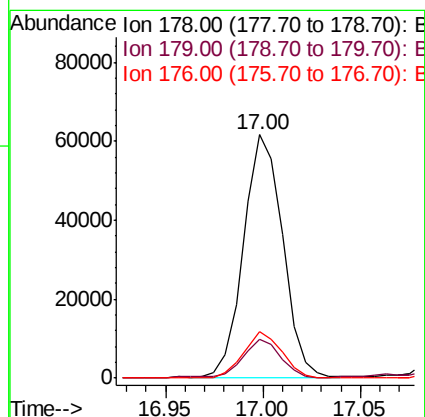
RT: 17.00 min Scan# 2382

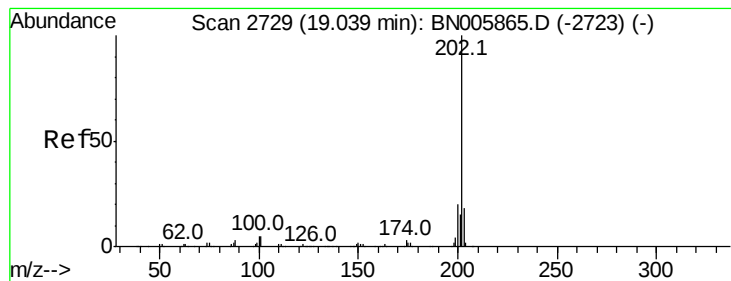
Delta R.T. -0.01 min

Lab File: BN005875.D

Acq: 23 May 2019 05:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 86174 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.0  | 12.2  | 18.4  |
| 176       | 19.2  | 15.1  | 22.7  |





#76

Fluoranthene

Concen: 6.954 ng/ul

RT: 19.04 min Scan# 2729

Delta R.T. -0.00 min

Lab File: BN005875.D

Acq: 23 May 2019 05:51

Instrument :

BNA\_N

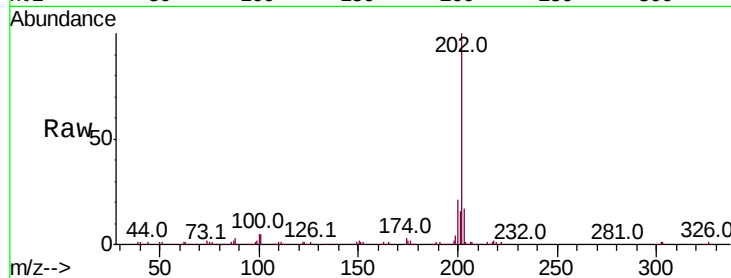
ClientSampleId :

A42A5

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 101     | 5.5   | 8.6  | 12.8# |       |
| 100     | 4.9   | 6.3  | 9.5#  |       |

Manual Integrations  
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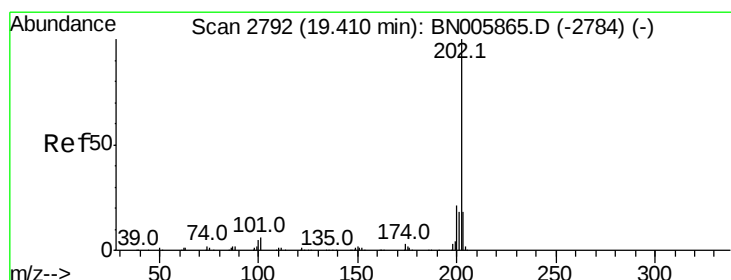
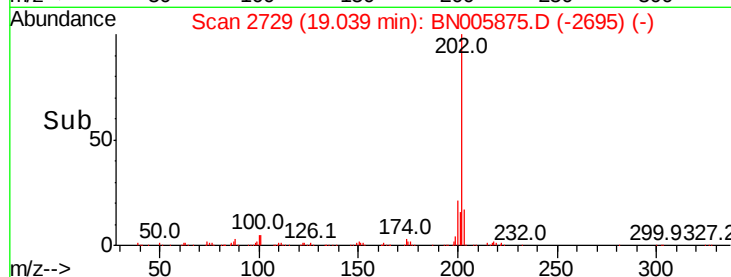
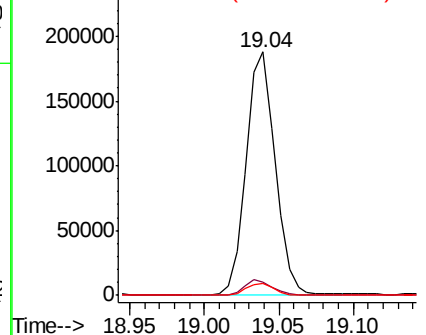
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#79

Pyrene

Concen: 6.109 ng/ul

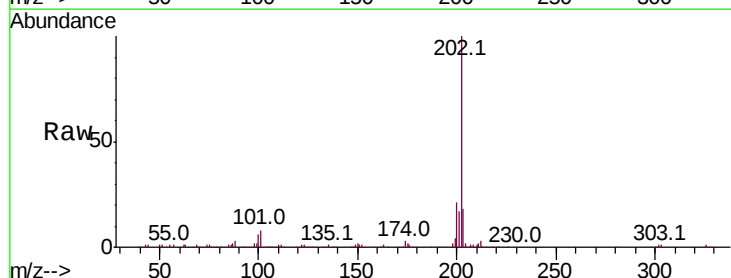
RT: 19.40 min Scan# 2791

Delta R.T. -0.00 min

Lab File: BN005875.D

Acq: 23 May 2019 05:51

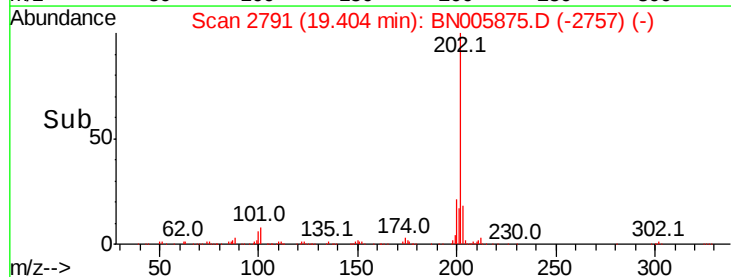
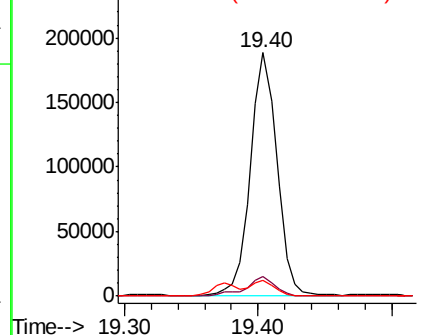
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 101     | 7.8   | 10.3 | 15.5# |       |
| 100     | 6.3   | 7.9  | 11.9# |       |

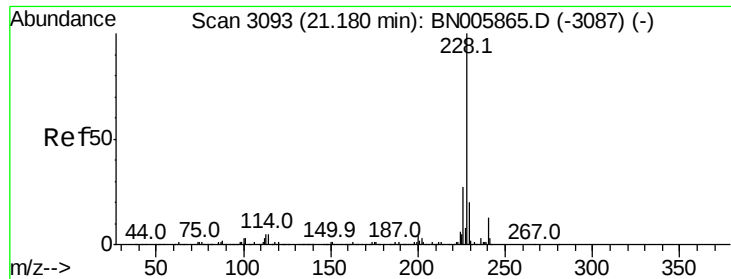


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#82

Benzo(a)anthracene

Concen: 3.285 ng/ul

RT: 21.18 min Scan# 3093

Delta R.T. -0.00 min

Lab File: BN005875.D

Acq: 23 May 2019 05:51

Instrument :

BNA\_N

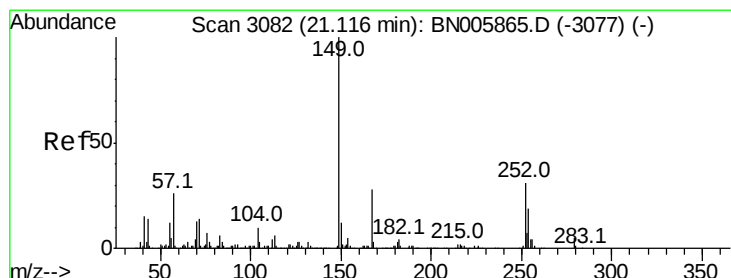
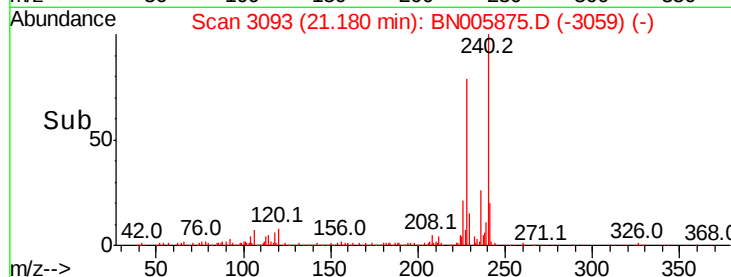
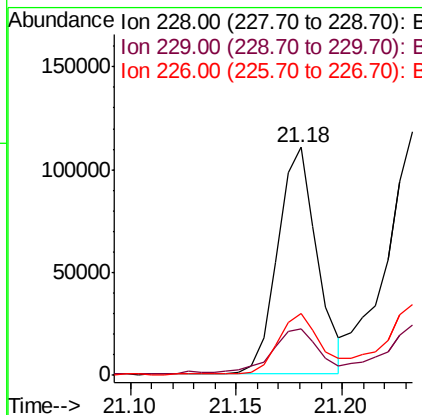
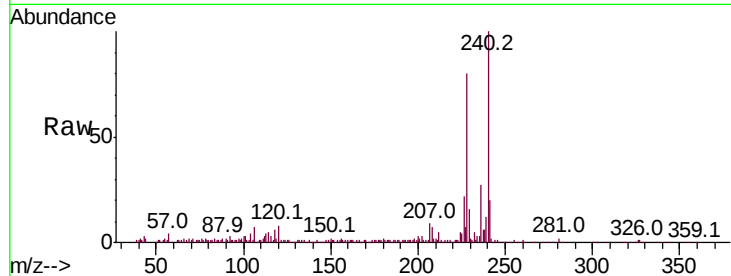
ClientSampleId :

A42A5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 143463 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 20.2  | 15.8  | 23.6   |
| 226       | 27.1  | 21.4  | 32.2   |

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#83

Bis(2-ethylhexyl)phthalate

Concen: 1.423 ng/ul

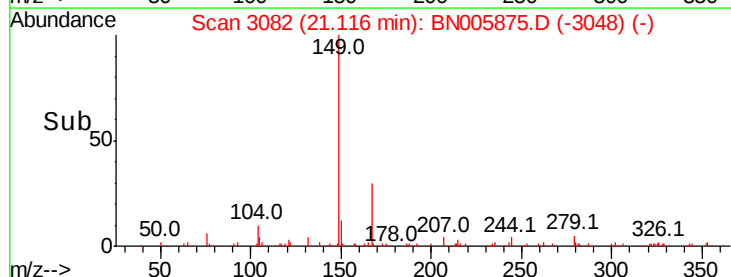
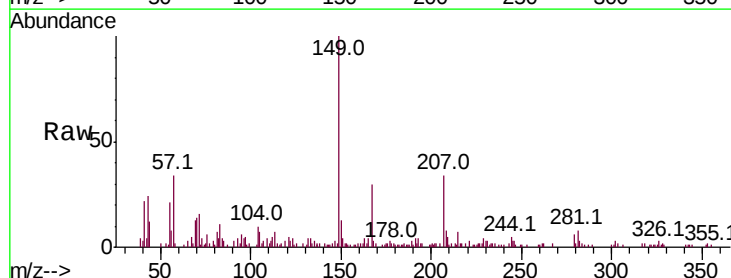
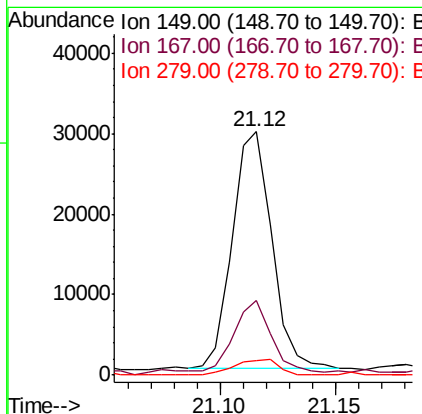
RT: 21.12 min Scan# 3082

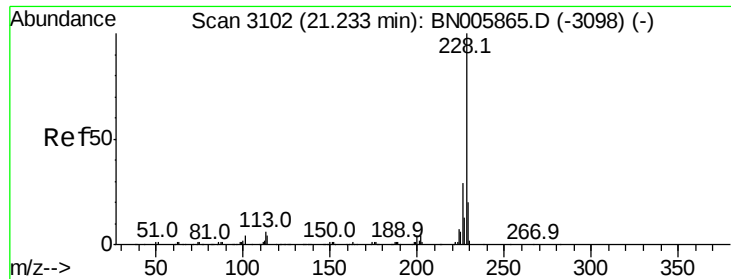
Delta R.T. -0.00 min

Lab File: BN005875.D

Acq: 23 May 2019 05:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 35220 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 30.4  | 22.3  | 33.5  |
| 279       | 6.1   | 3.3   | 4.9#  |





#84

Chrysene

Concen: 4.144 ng/ul

RT: 21.23 min Scan# 3102

Delta R.T. -0.00 min

Lab File: BN005875.D

Acq: 23 May 2019 05:51

Instrument :

BNA\_N

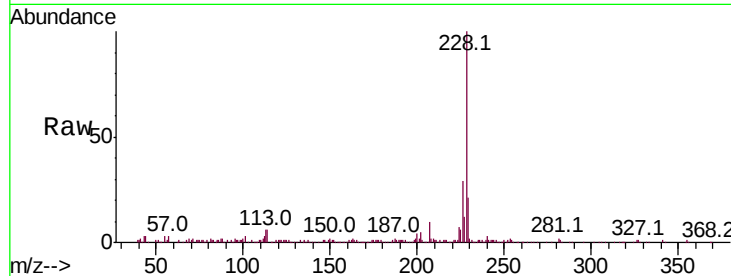
ClientSampleId :

A42A5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 170613 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.0  | 24.0  | 36.0   |
| 229       | 20.8  | 15.4  | 23.0   |

Manual Integrations  
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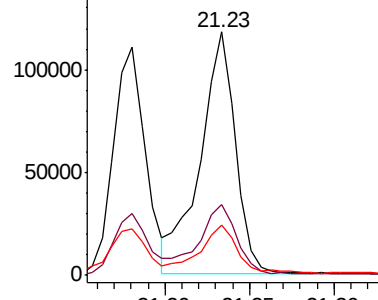


Abundance

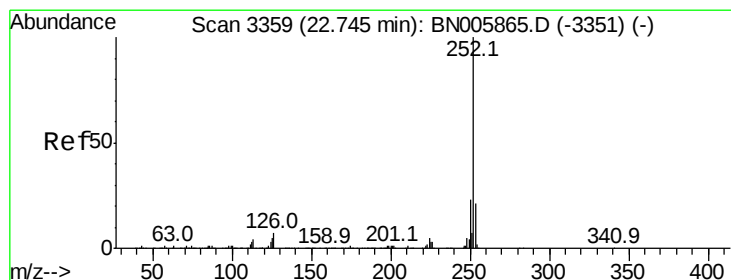
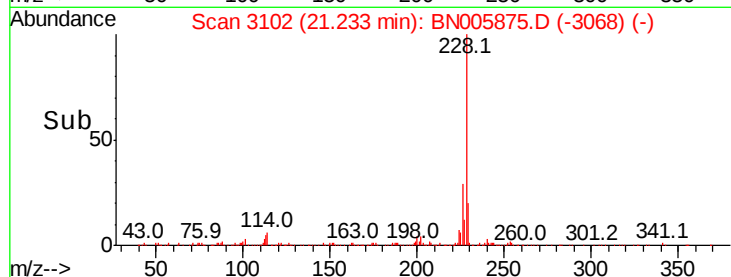
Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#87

Benzo(b)fluoranthene

Concen: 4.759 ng/ul

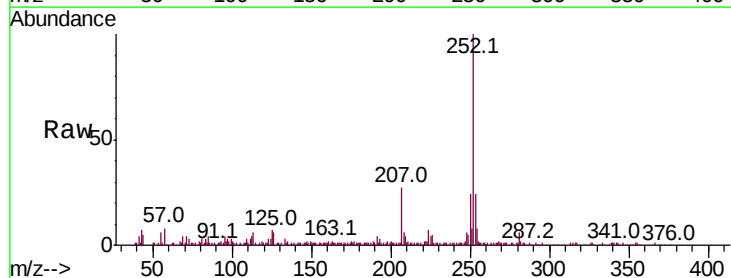
RT: 22.75 min Scan# 3360

Delta R.T. 0.01 min

Lab File: BN005875.D

Acq: 23 May 2019 05:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 186198 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.7  | 17.7  | 26.5   |
| 125       | 7.1   | 8.4   | 12.6#  |

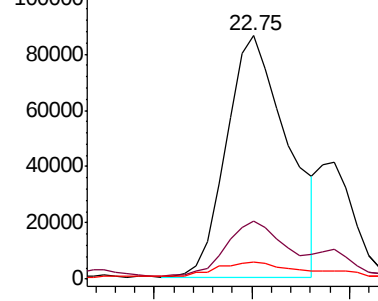


Abundance

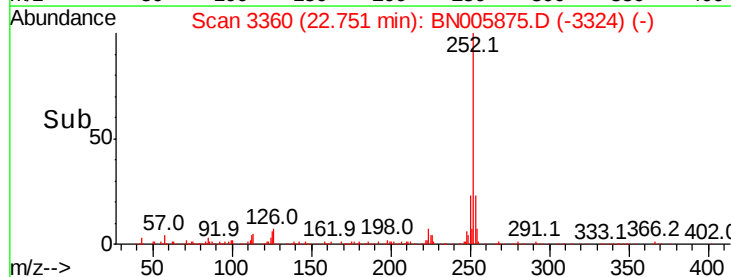
Ion 252.00 (251.70 to 252.70): E

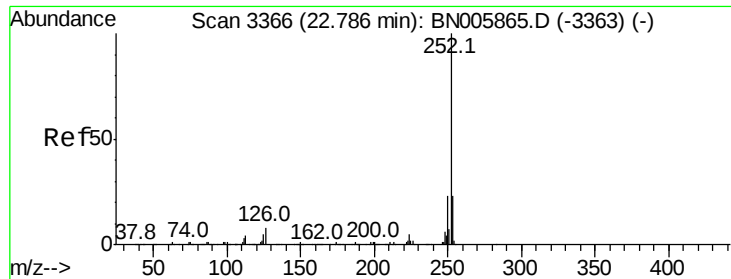
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





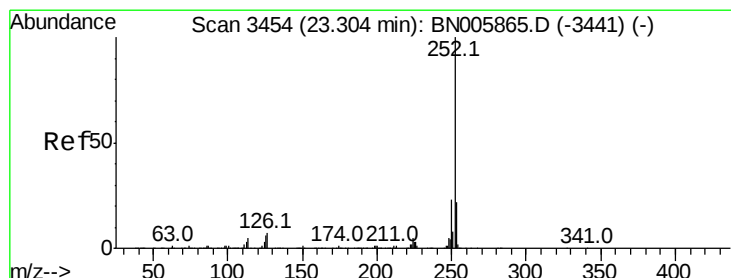
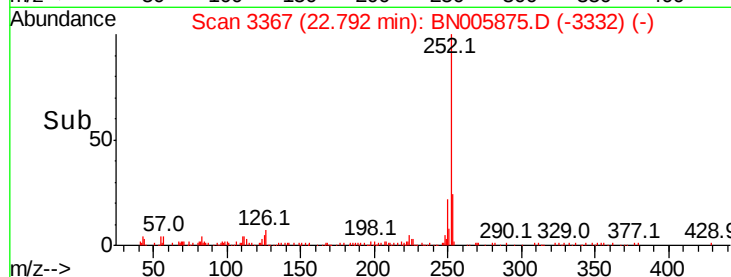
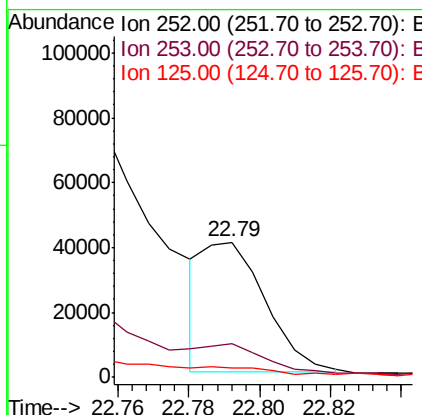
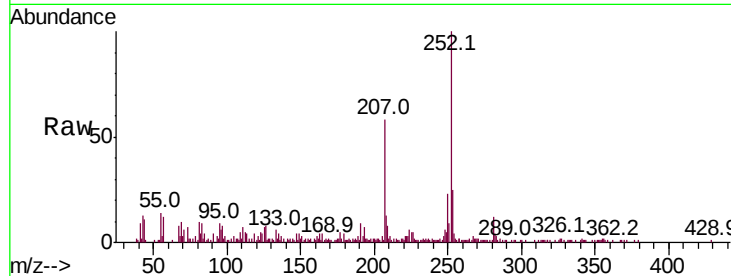
#88  
Benzo(k)fluoranthene  
Concen: 1.277 ng/ul  
RT: 22.79 min Scan# 3367  
Delta R.T. 0.01 min  
Lab File: BN005875.D  
Acq: 23 May 2019 05:51

Instrument :  
BNA\_N  
ClientSampled :  
A42A5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 17.4  | 26.0  |
| 125     | 6.8   | 7.5   | 11.3  |

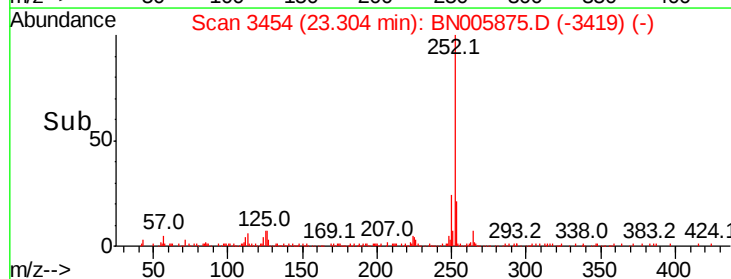
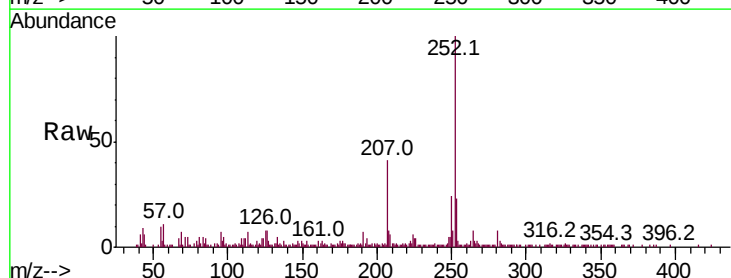
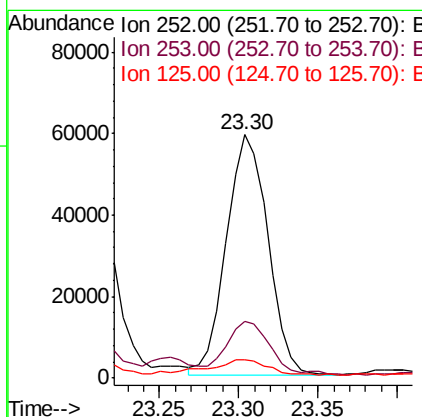
Manual Integrations  
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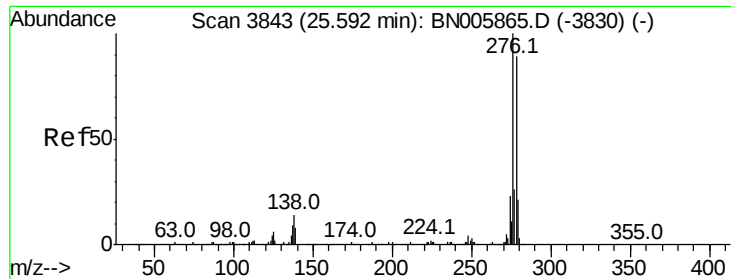
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5/23/2019 3:31:32 PM



#90  
Benzo(a)pyrene  
Concen: 2.817 ng/ul  
RT: 23.30 min Scan# 3454  
Delta R.T. 0.01 min  
Lab File: BN005875.D  
Acq: 23 May 2019 05:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.3  | 25.9  |
| 125     | 7.6   | 8.6   | 13.0  |





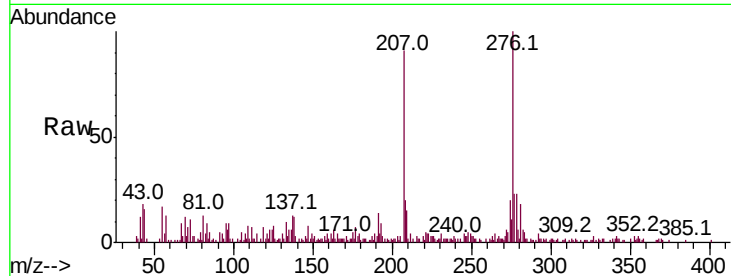
#91  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.550 ng/ul  
 RT: 25.60 min Scan# 3844  
 Delta R.T. 0.01 min  
 Lab File: BN005875.D  
 Acq: 23 May 2019 05:51

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A42A5

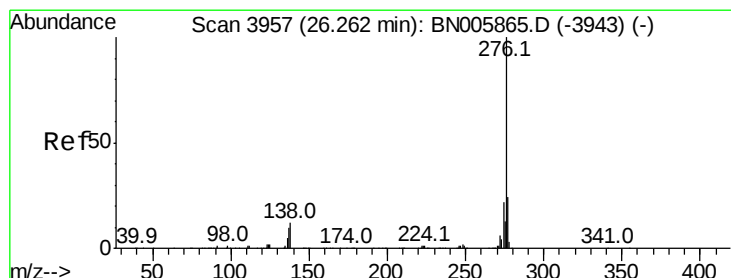
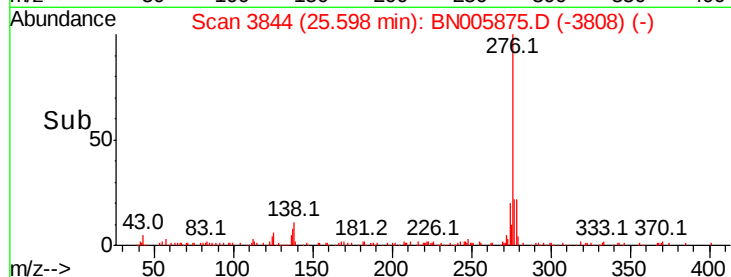
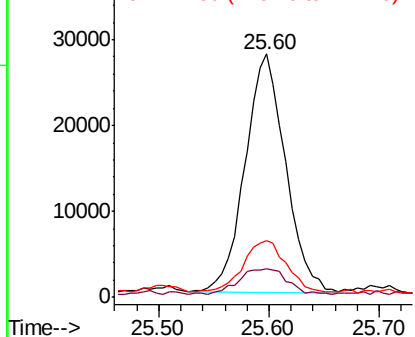
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 11.6  | 17.9  | 26.9# |
| 277     | 23.2  | 19.7  | 29.5  |

Manual Integrations  
 APPROVED

mohammad  
 5/23/2019 3:31:32 PM



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



#93  
 Benzo(g,h,i)perylene  
 Concen: 1.276 ng/ul  
 RT: 26.27 min Scan# 3958  
 Delta R.T. 0.01 min  
 Lab File: BN005875.D  
 Acq: 23 May 2019 05:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 13.9  | 16.7  | 25.1# |
| 277     | 24.6  | 18.2  | 27.2  |

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

