

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\  
 Data File : BM023999.D  
 Acq On : 04 Dec 2019 13:37  
 Operator : JU  
 Sample : K4649-01 5X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A5167

Manual Integrations  
 APPROVED

mohammad  
 12/5/2019 10:50:01 AM

Quant Time: Dec 04 15:15:00 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Dec 04 13:35:21 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.48  | 152  | 347519   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.25 | 136  | 1404782  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.14 | 164  | 822419   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.90 | 188  | 1744547  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.12 | 240  | 1902246  | 20.00 | ng/ul | 0.01     |
| 86) Perylene-d12          | 23.27 | 264  | 2407325  | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.04  | 96  | 6949   | 0.89 | ng/uL | 0.01 |
| 5) Phenol-d5                   | 6.68  | 99  | 160834 | 5.28 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.83  | 67  | 102487 | 5.79 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.02  | 132 | 128803 | 5.47 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.20  | 113 | 118673 | 4.94 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.63  | 128 | 58694  | 5.38 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.36  | 143 | 59444  | 4.80 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.89  | 165 | 111242 | 4.74 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.42 | 131 | 78459  | 3.05 | ng/ul | 0.02 |
| 44) Dimethylphthalate-d6       | 13.56 | 166 | 364349 | 5.70 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.83 | 160 | 411953 | 5.50 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.39 | 143 | 26842  | 2.50 | ng/ul | 0.02 |
| 58) Fluorene-d10               | 15.14 | 176 | 331922 | 6.17 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.30 | 200 | 23909  | 2.18 | ng/ul | 0.01 |
| 71) Anthracene-d10             | 17.00 | 188 | 517559 | 6.21 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.31 | 212 | 600298 | 6.11 | ng/ul | 0.01 |
| 90) Benzo(a)pyrene-d12         | 23.13 | 264 | 760177 | 5.97 | ng/ul | 0.01 |

## Target Compounds

|                            |       |     |           |         | Ovalue    |
|----------------------------|-------|-----|-----------|---------|-----------|
| 28) Naphthalene            | 10.30 | 128 | 1144787   | 15.458  | ng/ul 99  |
| 34) 2-Methylnaphthalene    | 11.93 | 142 | 285081    | 5.301   | ng/ul 99  |
| 35) 1-Methylnaphthalene    | 12.15 | 142 | 202574    | 3.837   | ng/ul 98  |
| 41) 1,1'-Biphenyl          | 12.97 | 154 | 108698    | 1.636   | ng/ul 98  |
| 45) Dimethylphthalate      | 13.61 | 163 | 95748     | 1.531   | ng/ul 98  |
| 50) Acenaphthene           | 14.20 | 153 | 2181807   | 40.551  | ng/ul 100 |
| 54) Dibenzofuran           | 14.55 | 168 | 1381516   | 18.148  | ng/ul 99  |
| 59) Fluorene               | 15.20 | 166 | 2066637   | 33.663  | ng/ul 99  |
| 70) Phenanthrene           | 16.94 | 178 | 20319884m | 206.183 | ng/ul     |
| 72) Anthracene             | 17.03 | 178 | 9227352   | 92.220  | ng/ul 98  |
| 75) Carbazole              | 17.30 | 167 | 4412933   | 50.934  | ng/ul 100 |
| 77) Fluoranthene           | 18.97 | 202 | 23444764m | 221.826 | ng/ul     |
| 80) Pyrene                 | 19.33 | 202 | 23672794m | 184.700 | ng/ul     |
| 83) Benzo(a)anthracene     | 21.10 | 228 | 18645360m | 146.644 | ng/ul     |
| 85) Chrysene               | 21.15 | 228 | 17260302m | 144.557 | ng/ul     |
| 88) Benzo(b)fluoranthene   | 22.63 | 252 | 25542982m | 171.574 | ng/ul     |
| 89) Benzo(k)fluoranthene   | 22.68 | 252 | 10874661m | 76.948  | ng/ul     |
| 91) Benzo(a)pyrene         | 23.18 | 252 | 20805407m | 147.805 | ng/ul     |
| 92) Indeno(1,2,3-cd)pyrene | 25.42 | 276 | 15477482  | 88.549  | ng/ul 97  |
| 93) Dibenzo(a,h)anthracene | 25.41 | 278 | 4193682m  | 28.565  | ng/ul     |
| 94) Benzo(a,h,i)perylene   | 26.06 | 276 | 11961182  | 81.711  | ng/ul 98  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\  
Data File : BM023999.D  
Acq On : 04 Dec 2019 13:37  
Operator : JU  
Sample : K4649-01 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A5167

Manual Integrations  
APPROVED

mohammad  
12/5/2019 10:50:01 AM

Quant Time: Dec 04 15:15:00 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Dec 04 13:35:21 2019  
Response via : Initial Calibration

| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120419\  
Data File : BM023999.D  
Acq On : 04 Dec 2019 13:37  
Operator : JU  
Sample : K4649-01 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A5167

Quant Time: Dec 04 15:15:00 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Dec 04 13:35:21 2019  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
12/5/2019 10:50:01 AM

