

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
 Data File : BF094815.D  
 Acq On : 3 May 2017 2:48  
 Operator : SJ/MA  
 Sample : I2920-01 2X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11930/72-11937/VNJ-239

Manual Integrations  
 APPROVED

mohammad  
 5/4/2017 1:45:14 PM

Quant Time: May 03 04:52:24 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 02 17:18:57 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.72  | 152  | 99319    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 9.75  | 136  | 372983   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 12.58 | 164  | 174129   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 14.98 | 188  | 283733   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 18.64 | 240  | 211799   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 20.31 | 264  | 173995   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |        |       |    |       |
|--------------------------|-------|-----|--------|-------|----|-------|
| 5) 2-Fluorophenol        | 5.67  | 112 | 249792 | 41.93 | ng | -0.01 |
| 7) Phenol-d6             | 7.26  | 99  | 320976 | 44.91 | ng | -0.02 |
| 23) Nitrobenzene-d5      | 8.61  | 82  | 167594 | 28.33 | ng | -0.02 |
| 41) 2,4,6-Tribromophenol | 13.87 | 330 | 58091  | 40.74 | ng | -0.01 |
| 44) 2-Fluorobiphenyl     | 11.52 | 172 | 381581 | 31.54 | ng | -0.01 |
| 78) Terphenyl-d14        | 17.30 | 244 | 233691 | 24.30 | ng | -0.01 |

## Target Compounds

|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 2) 1,4-Dioxane                 | 2.09  | 88  | 134    | 0.046  | ng | # 21   |
| 6) Aniline                     | 7.39  | 93  | 133    | 0.015  | ng | # 1    |
| 10) Phenol                     | 7.28  | 94  | 2953   | 0.392  | ng | # 1    |
| 11) bis(2-Chloroethyl)ether    | 7.39  | 93  | 133    | 0.021  | ng | # 1    |
| 15) Benzyl Alcohol             | 7.96  | 79  | 2626   | 0.571  | ng | # 41   |
| 22) Acetophenone               | 8.27  | 105 | 107    | 0.012  | ng | # 46   |
| 24) Nitrobenzene               | 8.62  | 77  | 408    | 0.066  | ng | # 39   |
| 25) Isophorone                 | 8.98  | 82  | 257    | 0.024  | ng | # 67   |
| 31) Naphthalene                | 9.78  | 128 | 16734  | 0.893  | ng | # 97   |
| 33) 4-Chloroaniline            | 9.78  | 127 | 2126   | 0.304  | ng | # 42   |
| 35) Caprolactam                | 10.55 | 113 | 107    | 0.070  | ng | # 77   |
| 37) 2-Methylnaphthalene        | 10.91 | 142 | 6667   | 0.542  | ng | # 94   |
| 45) 1,1'-Biphenyl              | 11.68 | 154 | 2222   | 0.152  | ng | # 89   |
| 48) Acenaphthylene             | 12.35 | 152 | 10310  | 0.556  | ng | # 96   |
| 49) Dimethylphthalate          | 12.21 | 163 | 40304  | 2.819  | ng | # 98   |
| 51) Acenaphthene               | 11.68 | 154 | 2222   | 0.152  | ng | # 35   |
| 54) Dibenzofuran               | 12.92 | 168 | 16242  | 1.060  | ng | # 98   |
| 56) 2,4-Dinitrotoluene         | 12.85 | 165 | 410    | 0.109  | ng | # 31   |
| 57) Fluorene                   | 13.47 | 166 | 30548  | 2.292  | ng | # 96   |
| 59) Diethylphthalate           | 13.36 | 149 | 925    | 0.068  | ng | # 60   |
| 61) 4-Nitroaniline             | 13.47 | 138 | 137    | 0.048  | ng | # 25   |
| 62) Azobenzene                 | 13.75 | 77  | 520    | 0.047  | ng | # 1    |
| 65) n-Nitrosodiphenylamine     | 13.70 | 169 | 2238   | 0.217  | ng | # 77   |
| 70) Phenanthrene               | 15.01 | 178 | 338485 | 20.763 | ng | # 98   |
| 71) Anthracene                 | 15.09 | 178 | 126211 | 7.579  | ng | # 97   |
| 72) Carbazole                  | 15.38 | 167 | 18233  | 1.203  | ng | # 98   |
| 73) Di-n-butylphthalate        | 15.95 | 149 | 2338   | 0.124  | ng | # 4    |
| 74) Fluoranthene               | 16.76 | 202 | 720266 | 43.070 | ng | # 99   |
| 77) Pyrene                     | 17.06 | 202 | 689318 | 43.517 | ng | # 97   |
| 79) Butylbenzylphthalate       | 17.95 | 149 | 479    | 0.065  | ng | # 73   |
| 80) Benzo(a)anthracene         | 18.64 | 228 | 360111 | 29.214 | ng | # 100  |
| 81) 3,3'-Dichlorobenzidine     | 18.64 | 252 | 1677   | 0.394  | ng | # 1    |
| 82) Chrysene                   | 18.68 | 228 | 315759 | 26.492 | ng | # 96   |
| 83) Bis(2-ethylhexyl)phthalate | 18.71 | 149 | 2525   | 0.241  | ng | # 97   |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 84) Di-n-octyl phthalate   | 19.48 | 149  | 899      | 0.052  | ng    | # 1      |
| 85) Indeno(1,2,3-cd)pyrene | 21.60 | 276  | 147326   | 15.221 | ng    | 93       |
| 87) Benzo(b)fluoranthene   | 19.91 | 252  | 432062m  | 40.187 | ng    |          |
| 88) Benzo(k)fluoranthene   | 19.93 | 252  | 141289m  | 13.624 | ng    |          |
| 89) Benzo(a)pyrene         | 20.25 | 252  | 291147   | 29.347 | ng    | 96       |
| 90) Dibenzo(a,h)anthracene | 21.61 | 278  | 38741    | 4.728  | ng    | # 77     |
| 91) Benzo(g,h,i)perylene   | 21.98 | 276  | 139789   | 17.386 | ng    | 97       |

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

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