

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032017\  
 Data File : BF093790.D  
 Acq On : 21 Mar 2017 3:12  
 Operator : SJ/MA  
 Sample : I2280-07 50X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CTMIX-4

Manual Integrations  
 APPROVED

mohammad  
 3/21/2017 2:46:11 PM

Quant Time: Mar 21 03:56:48 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 20 16:03:59 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.84  | 152  | 229611   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.13  | 136  | 854426   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.88  | 164  | 381766   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.35 | 188  | 591673   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.98 | 240  | 396246   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.39 | 264  | 342995   | 20.00 | ng    | -0.02    |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 5) 2-Fluorophenol           | 5.42  | 112 | 28050 | 2.14 | ng | -0.02 |
| 7) Phenol-d6                | 6.45  | 99  | 35779 | 2.21 | ng | -0.03 |
| 23) Nitrobenzene-d5         | 7.38  | 82  | 17495 | 1.16 | ng | -0.02 |
| 41) 2,4,6-Tribromophenol    | 10.65 | 330 | 3210  | 1.09 | ng | -0.02 |
| 44) 2-Fluorobiphenyl        | 9.19  | 172 | 41356 | 1.82 | ng | -0.02 |
| 78) Terphenyl-d14           | 12.93 | 244 | 28304 | 1.46 | ng | -0.02 |

|                            |       |     |          |        |    |      |
|----------------------------|-------|-----|----------|--------|----|------|
| Target Compounds           |       |     |          | Qvalue |    |      |
| 10) Phenol                 | 6.47  | 94  | 86666    | 4.75   | ng | 80   |
| 17) 2-Methylphenol         | 7.09  | 107 | 27071    | 2.14   | ng | 96   |
| 20) 3+4-Methylphenols      | 7.24  | 107 | 71958    | 4.80   | ng | # 62 |
| 31) Naphthalene            | 8.16  | 128 | 6066262  | 152.96 | ng | 97   |
| 37) 2-Methylnaphthalene    | 8.84  | 142 | 1035112  | 39.98  | ng | 99   |
| 45) 1,1'-Biphenyl          | 9.29  | 154 | 305172   | 9.84   | ng | 96   |
| 48) Acenaphthylene         | 9.73  | 152 | 1275150  | 32.94  | ng | 99   |
| 51) Acenaphthene           | 9.90  | 154 | 136957m  | 5.92   | ng |      |
| 54) Dibenzofuran           | 10.08 | 168 | 995651   | 32.00  | ng | 94   |
| 57) Fluorene               | 10.42 | 166 | 1046597m | 43.92  | ng |      |
| 70) Phenanthrene           | 11.38 | 178 | 2894345  | 91.85  | ng | 99   |
| 71) Anthracene             | 11.43 | 178 | 1280038  | 39.46  | ng | 100  |
| 72) Carbazole              | 11.58 | 167 | 533368   | 16.61  | ng | 97   |
| 74) Fluoranthene           | 12.56 | 202 | 1834520  | 56.64  | ng | 99   |
| 77) Pyrene                 | 12.79 | 202 | 1667222  | 50.56  | ng | 100  |
| 80) Benzo(a)anthracene     | 13.97 | 228 | 679861m  | 27.39  | ng |      |
| 82) Chrysene               | 14.00 | 228 | 606897m  | 24.47  | ng |      |
| 85) Indeno(1,2,3-cd)pyrene | 16.75 | 276 | 201228   | 9.91   | ng | 95   |
| 87) Benzo(b)fluoranthene   | 14.99 | 252 | 572616m  | 24.76  | ng |      |
| 88) Benzo(k)fluoranthene   | 15.00 | 252 | 264669m  | 15.50  | ng |      |
| 89) Benzo(a)pyrene         | 15.33 | 252 | 491525   | 26.21  | ng | 99   |
| 90) Dibenz(a,h)anthracene  | 16.76 | 278 | 53888m   | 3.46   | ng |      |
| 91) Benzo(g,h,i)perylene   | 17.15 | 276 | 177511   | 11.49  | ng | 98   |

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

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