Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022317\
Data File : BF093108.D
Acq On : 23 Feb 2017 17:01
Operator : SJ/MA
Sample : PB97124BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB97124BS

Manual Integrations APPROVED
mohammad
2/24/2017 2:11:04 PM

Quant Time: Feb 24 00:05:18 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 17 17:31:55 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.84 | 152 | 164493 | 20.00 | ng | | -0.01 |
| 21) Naphthalene-d8 | 8.13 | 136 | 622852 | 20.00 | ng | | -0.01 |
| 38) Acenaphthene-d10 | 9.88 | 164 | 308558 | 20.00 | ng | | -0.01 |
| 63) Phenanthrene-d10 | 11.36 | 188 | 542824 | 20.00 | ng | | -0.02 |
| 75) Chrysene-d12 | 14.00 | 240 | 433846 | 20.00 | ng | | -0.02 |
| 86) Perylene-d12 | 15.43 | 264 | 350323 | 20.00 | ng | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.44 | 112 | 1126711 | 117.51 | ng | | -0.01 |
| 7) Phenol-d6 | 6.49 | 99 | 1477349 | 119.75 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.41 | 82 | 929249 | 83.08 | ng | | -0.01 |
| 41) 2,4,6-Tribromophenol | 10.67 | 330 | 292432 | 131.04 | ng | | -0.01 |
| 44) 2-Fluorobiphenyl | 9.21 | 172 | 1730989 | 101.63 | ng | | -0.01 |
| 78) Terphenyl-d14 | 12.94 | 244 | 1373839 | 74.41 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.43 | 88 | 146641 | 28.30 | ng | # | 86 |
| 3) Pyridine | 3.15 | 79 | 433298 | 32.89 | ng | | 88 |
| 4) n-Nitrosodimethylamine | 3.10 | 42 | 251624 | 40.68 | ng | | 86 |
| 6) Aniline | 6.51 | 93 | 564633 | 33.55 | ng | # | 46 |
| 8) 2-Chlorophenol | 6.62 | 128 | 441037 | 41.70 | ng | | 93 |
| 9) Benzaldehyde | 6.38 | 77 | 191837 | 21.71 | ng | | 94 |
| 10) Phenol | 6.50 | 94 | 621610 | 43.07 | ng | | 91 |
| 11) bis(2-Chloroethyl)ether | 6.58 | 93 | 432592 | 37.55 | ng | | 91 |
| 12) 1,3-Dichlorobenzene | 6.78 | 146 | 490463 | 39.59 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.85 | 146 | 489488 | 39.04 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.01 | 146 | 490264 | 40.89 | ng | | 96 |
| 15) Benzyl Alcohol | 6.99 | 79 | 352498 | 38.60 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropropan | 7.13 | 45 | 799519 | 39.95 | ng | | 94 |
| 17) 2-Methylphenol | 7.10 | 107 | 382314 | 42.13 | ng | | 97 |
| 18) Hexachloroethane | 7.36 | 117 | 170366 | 39.80 | ng | | 89 |
| 19) n-Nitroso-di-n-propylamine | 7.26 | 70 | 313231 | 39.89 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.26 | 107 | 450540 | 41.53 | ng | | 97 |
| 22) Acetophenone | 7.25 | 105 | 604473 | 42.51 | ng | # | 95 |
| 24) Nitrobenzene | 7.44 | 77 | 527910 | 45.97 | ng | # | 87 |
| 25) Isophorone | 7.68 | 82 | 938897 | 45.05 | ng | | 99 |
| 26) 2-Nitrophenol | 7.74 | 139 | 240025 | 43.97 | ng | | 94 |
| 27) 2,4-Dimethylphenol | 7.79 | 122 | 435231 | 45.39 | ng | | 97 |
| 28) bis(2-Chloroethoxy)methane | 7.88 | 93 | 579384 | 41.97 | ng | | 97 |
| 29) 2,4-Dichlorophenol | 8.00 | 162 | 406400 | 45.45 | ng | | 97 |
| 30) 1,2,4-Trichlorobenzene | 8.08 | 180 | 404689 | 42.00 | ng | | 98 |
| 31) Naphthalene | 8.14 | 128 | 1246270 | 39.47 | ng | | 99 |
| 32) Benzoic acid | 7.94 | 122 | 250355 | 46.37 | ng | | 94 |
| 33) 4-Chloroaniline | 8.20 | 127 | 331525 | 26.77 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.27 | 225 | 214494 | 40.46 | ng | | 98 |
| 35) Caprolactam | 8.58 | 113 | 130477m | 46.39 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.69 | 107 | 431202 | 46.25 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.84 | 142 | 906557 | 44.72 | ng | | 97 |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.00 | 216 | 361168 | 41.70 | ng | | 99 |
| 40) Hexachlorocyclopentadiene | 8.99 | 237 | 320702 | 82.07 | ng | | 95 |

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022317\
Data File : BF093108.D
Acq On : 23 Feb 2017 17:01
Operator : SJ/MA
Sample : PB97124BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB97124BS

**Manual Integrations APPROVED**
mohammad
2/24/2017 2:11:04 PM

Quant Time: Feb 24 00:05:18 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 17 17:31:55 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 2,4,6-Trichlorophenol | 9.13 | 196 | 275725 | 48.45 | ng | | 95 |
| 43) 2,4,5-Trichlorophenol | 9.16 | 196 | 286964 | 46.02 | ng | | 96 |
| 45) 1,1'-Biphenyl | 9.30 | 154 | 1012159 | 45.30 | ng | | 96 |
| 46) 2-Chloronaphthalene | 9.33 | 162 | 848177 | 48.53 | ng | | 96 |
| 47) 2-Nitroaniline | 9.42 | 65 | 265067 | 45.11 | ng | | 94 |
| 48) Acenaphthylene | 9.74 | 152 | 1355939 | 44.91 | ng | | 98 |
| 49) Dimethylphthalate | 9.61 | 163 | 949241 | 45.67 | ng | | 99 |
| 50) 2,6-Dinitrotoluene | 9.68 | 165 | 245615 | 54.72 | ng | | 88 |
| 51) Acenaphthene | 9.92 | 154 | 809924 | 44.87 | ng | | 96 |
| 52) 3-Nitroaniline | 9.84 | 138 | 151906 | 29.57 | ng | | 90 |
| 53) 2,4-Dinitrophenol | 9.95 | 184 | 219827 | 95.31 | ng | # | 56 |
| 54) Dibenzofuran | 10.09 | 168 | 1142552 | 47.32 | ng | | 95 |
| 55) 4-Nitrophenol | 10.02 | 139 | 355036 | 95.97 | ng | | 89 |
| 56) 2,4-Dinitrotoluene | 10.08 | 165 | 259684 | 43.46 | ng | # | 92 |
| 57) Fluorene | 10.43 | 166 | 920682 | 49.56 | ng | | 98 |
| 58) 2,3,4,6-Tetrachlorophenol | 10.21 | 232 | 218713 | 52.58 | ng | | 96 |
| 59) Diethylphthalate | 10.30 | 149 | 926555 | 47.31 | ng | | 98 |
| 60) 4-Chlorophenyl-phenylether | 10.42 | 204 | 407806 | 45.70 | ng | | 87 |
| 61) 4-Nitroaniline | 10.46 | 138 | 263552 | 50.10 | ng | # | 76 |
| 62) Azobenzene | 10.58 | 77 | 1081515 | 53.45 | ng | | 96 |
| 64) 4,6-Dinitro-2-methylphenol | 10.49 | 198 | 166598 | 50.29 | ng | # | 67 |
| 65) n-Nitrosodiphenylamine | 10.54 | 169 | 831678 | 47.96 | ng | | 99 |
| 66) 4-Bromophenyl-phenylether | 10.91 | 248 | 260206 | 45.88 | ng | # | 86 |
| 67) Hexachlorobenzene | 10.98 | 284 | 247473 | 44.16 | ng | # | 89 |
| 68) Atrazine | 11.07 | 200 | 259732 | 46.67 | ng | | 98 |
| 69) Pentachlorophenol | 11.17 | 266 | 266094 | 90.90 | ng | | 98 |
| 70) Phenanthrene | 11.39 | 178 | 1370301 | 44.06 | ng | | 98 |
| 71) Anthracene | 11.44 | 178 | 1264745 | 40.50 | ng | | 99 |
| 72) Carbazole | 11.60 | 167 | 1189741 | 39.85 | ng | | 99 |
| 73) Di-n-butylphthalate | 11.93 | 149 | 1601838 | 49.61 | ng | # | 96 |
| 74) Fluoranthene | 12.58 | 202 | 1362218 | 42.46 | ng | | 90 |
| 76) Benzidine | 12.69 | 184 | 558495 | 30.21 | ng | | 97 |
| 77) Pyrene | 12.80 | 202 | 1380643 | 42.52 | ng | | 99 |
| 79) Butylbenzylphthalate | 13.41 | 149 | 643544 | 48.81 | ng | | 99 |
| 80) Benzo(a)anthracene | 13.99 | 228 | 1104489 | 41.62 | ng | | 99 |
| 81) 3,3'-Dichlorobenzidine | 13.95 | 252 | 293155 | 30.99 | ng | | 98 |
| 82) Chrysene | 14.03 | 228 | 1145009 | 46.09 | ng | | 99 |
| 83) Bis(2-ethylhexyl)phthalate | 13.97 | 149 | 829328 | 45.99 | ng | | 99 |
| 84) Di-n-octyl phthalate | 14.59 | 149 | 1512916 | 51.53 | ng | | 99 |
| 85) Indeno(1,2,3-cd)pyrene | 16.82 | 276 | 825402 | 42.89 | ng | # | 94 |
| 87) Benzo(b)fluoranthene | 15.01 | 252 | 1239570m | 53.76 | ng | | |
| 88) Benzo(k)fluoranthene | 15.05 | 252 | 705397m | 35.43 | ng | | |
| 89) Benzo(a)pyrene | 15.37 | 252 | 905051 | 45.38 | ng | | 99 |
| 90) Dibenzo(a,h)anthracene | 16.83 | 278 | 684295 | 42.45 | ng | | 96 |
| 91) Benzo(g,h,i)perylene | 17.24 | 276 | 702133 | 43.12 | ng | # | 90 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022317\
Data File : BF093108.D
Acq On : 23 Feb 2017 17:01
Operator : SJ/MA
Sample : PB97124BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 24 00:05:18 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 17 17:31:55 2017
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB97124BS

**Manual Integrations APPROVED**
mohammad
2/24/2017 2:11:04 PM