Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120916\
Data File : BF091539.D
Acq On : 9 Dec 2016 20:48
Operator : UM/SJ
Sample : PB94152BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PB95152BS

**Manual Integrations APPROVED**
sohil
12/12/2016 6:49:55 PM

Quant Time: Dec 09 22:49:24 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 09 19:00:21 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.81 | 152 | 267388 | 20.00 | ng | | -0.01 |
| 21) Naphthalene-d8 | 8.10 | 136 | 1100808 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 9.85 | 164 | 551808 | 20.00 | ng | | -0.01 |
| 63) Phenanthrene-d10 | 11.33 | 188 | 910844 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 13.96 | 240 | 618644 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 15.38 | 264 | 598180 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.42 | 112 | 1295199 | 81.61 | ng | | 0.01 |
| 7) Phenol-d6 | 6.45 | 99 | 1589110 | 80.31 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.38 | 82 | 1733141 | 87.87 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.64 | 330 | 336789 | 73.48 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 9.17 | 172 | 2813983 | 88.11 | ng | | -0.01 |
| 78) Terphenyl-d14 | 12.92 | 244 | 2480098 | 90.97 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.50 | 88 | 314048 | 37.49 | ng | # | 86 |
| 3) Pyridine | 3.18 | 79 | 934529 | 41.87 | ng | # | 83 |
| 4) n-Nitrosodimethylamine | 3.15 | 42 | 408080 | 42.56 | ng | # | 63 |
| 6) Aniline | 6.48 | 93 | 594144 | 22.90 | ng | # | 66 |
| 8) 2-Chlorophenol | 6.60 | 128 | 819758 | 45.76 | ng | | 98 |
| 9) Benzaldehyde | 6.35 | 77 | 176198 | 12.94 | ng | | 93 |
| 10) Phenol | 6.46 | 94 | 1010474 | 43.68 | ng | | 94 |
| 11) bis(2-Chloroethyl)ether | 6.54 | 93 | 810278 | 46.62 | ng | | 93 |
| 12) 1,3-Dichlorobenzene | 6.75 | 146 | 783790m | 40.35 | ng | | |
| 13) 1,4-Dichlorobenzene | 6.83 | 146 | 827421 | 43.18 | ng | | 98 |
| 14) 1,2-Dichlorobenzene | 6.98 | 146 | 738293 | 42.76 | ng | | 96 |
| 15) Benzyl Alcohol | 6.96 | 79 | 652521 | 41.77 | ng | | 97 |
| 16) 2,2'-oxybis(1-Chloropropan | 7.09 | 45 | 1167317 | 43.34 | ng | | 79 |
| 17) 2-Methylphenol | 7.08 | 107 | 684041 | 46.15 | ng | # | 76 |
| 18) Hexachloroethane | 7.32 | 117 | 319920 | 42.78 | ng | # | 80 |
| 19) n-Nitroso-di-n-propylamine | 7.23 | 70 | 555289 | 44.88 | ng | # | 83 |
| 20) 3+4-Methylphenols | 7.23 | 107 | 736673 | 46.10 | ng | # | 71 |
| 22) Acetophenone | 7.23 | 105 | 1095658 | 41.54 | ng | | 94 |
| 24) Nitrobenzene | 7.40 | 77 | 929376 | 44.60 | ng | # | 79 |
| 25) Isophorone | 7.64 | 82 | 1589435 | 45.33 | ng | | 98 |
| 26) 2-Nitrophenol | 7.71 | 139 | 405882 | 44.13 | ng | | 93 |
| 27) 2,4-Dimethylphenol | 7.76 | 122 | 689571 | 42.69 | ng | | 97 |
| 28) bis(2-Chloroethoxy)methane | 7.86 | 93 | 983953 | 47.84 | ng | # | 98 |
| 29) 2,4-Dichlorophenol | 7.96 | 162 | 660988 | 47.03 | ng | | 96 |
| 30) 1,2,4-Trichlorobenzene | 8.04 | 180 | 686789 | 43.00 | ng | | 99 |
| 31) Naphthalene | 8.12 | 128 | 2227214 | 43.49 | ng | | 100 |
| 32) Benzoic acid | 7.88 | 122 | 431528 | 38.32 | ng | | 97 |
| 33) 4-Chloroaniline | 8.17 | 127 | 193731 | 8.78 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.25 | 225 | 388769 | 42.46 | ng | | 98 |
| 35) Caprolactam | 8.54 | 113 | 214593m | 52.28 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.66 | 107 | 658448 | 41.77 | ng | | 100 |
| 37) 2-Methylnaphthalene | 8.82 | 142 | 1455432 | 43.90 | ng | | 98 |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.98 | 216 | 569248 | 37.61 | ng | # | 97 |
| 40) Hexachlorocyclopentadiene | 8.97 | 237 | 682359 | 101.13 | ng | | 100 |

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120916\
Data File : BF091539.D
Acq On : 9 Dec 2016 20:48
Operator : UM/SJ
Sample : PB94152BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB95152BS

**Manual Integrations APPROVED**
sohil
12/12/2016 6:49:55 PM

Quant Time: Dec 09 22:49:24 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 09 19:00:21 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 2,4,6-Trichlorophenol | 9.09 | 196 | 433322m | 44.56 | ng | | |
| 43) 2,4,5-Trichlorophenol | 9.14 | 196 | 449808m | 45.01 | ng | | |
| 45) 1,1'-Biphenyl | 9.28 | 154 | 1672441 | 41.84 | ng | | 98 |
| 46) 2-Chloronaphthalene | 9.30 | 162 | 1268476 | 40.98 | ng | | 99 |
| 47) 2-Nitroaniline | 9.39 | 65 | 417150 | 40.08 | ng | # | 84 |
| 48) Acenaphthylene | 9.71 | 152 | 1948835 | 41.31 | ng | | 99 |
| 49) Dimethylphthalate | 9.58 | 163 | 1586956 | 45.42 | ng | | 99 |
| 50) 2,6-Dinitrotoluene | 9.64 | 165 | 376755 | 49.13 | ng | # | 76 |
| 51) Acenaphthene | 9.88 | 154 | 1397585 | 42.65 | ng | | 97 |
| 52) 3-Nitroaniline | 9.80 | 138 | 165577 | 18.38 | ng | | 92 |
| 53) 2,4-Dinitrophenol | 9.92 | 184 | 319207 | 73.43 | ng | # | 73 |
| 54) Dibenzofuran | 10.05 | 168 | 1810833 | 44.67 | ng | | 98 |
| 55) 4-Nitrophenol | 9.97 | 139 | 526509 | 78.56 | ng | | 92 |
| 56) 2,4-Dinitrotoluene | 10.04 | 165 | 446883 | 46.49 | ng | # | 68 |
| 57) Fluorene | 10.40 | 166 | 1222155 | 41.84 | ng | | 97 |
| 58) 2,3,4,6-Tetrachlorophenol | 10.18 | 232 | 375497 | 47.99 | ng | | 97 |
| 59) Diethylphthalate | 10.28 | 149 | 1522599 | 45.25 | ng | | 96 |
| 60) 4-Chlorophenyl-phenylether | 10.40 | 204 | 636339 | 43.65 | ng | # | 90 |
| 61) 4-Nitroaniline | 10.42 | 138 | 337463 | 37.69 | ng | | 90 |
| 62) Azobenzene | 10.56 | 77 | 1811634 | 47.52 | ng | | 92 |
| 64) 4,6-Dinitro-2-methylphenol | 10.44 | 198 | 213133 | 39.11 | ng | | 87 |
| 65) n-Nitrosodiphenylamine | 10.51 | 169 | 1135744 | 41.83 | ng | | 99 |
| 66) 4-Bromophenyl-phenylether | 10.89 | 248 | 402771 | 43.13 | ng | # | 74 |
| 67) Hexachlorobenzene | 10.94 | 284 | 400315 | 41.23 | ng | # | 76 |
| 68) Atrazine | 11.05 | 200 | 421357 | 48.26 | ng | | 95 |
| 69) Pentachlorophenol | 11.14 | 266 | 434997 | 79.60 | ng | | 95 |
| 70) Phenanthrene | 11.36 | 178 | 1925350 | 42.69 | ng | | 99 |
| 71) Anthracene | 11.41 | 178 | 2158509 | 44.37 | ng | | 100 |
| 72) Carbazole | 11.56 | 167 | 1702036 | 39.91 | ng | | 99 |
| 73) Di-n-butylphthalate | 11.91 | 149 | 2317625 | 46.65 | ng | | 100 |
| 74) Fluoranthene | 12.55 | 202 | 2142593 | 45.37 | ng | | 99 |
| 76) Benzidine | 12.66 | 184 | 572847 | 29.95 | ng | | 99 |
| 77) Pyrene | 12.77 | 202 | 2138774 | 43.58 | ng | | 99 |
| 79) Butylbenzylphthalate | 13.39 | 149 | 863781 | 45.15 | ng | | 90 |
| 80) Benzo(a)anthracene | 13.95 | 228 | 1552080 | 43.20 | ng | | 100 |
| 81) 3,3'-Dichlorobenzidine | 13.92 | 252 | 242049 | 18.76 | ng | # | 96 |
| 82) Chrysene | 13.99 | 228 | 1516649 | 40.35 | ng | | 99 |
| 83) Bis(2-ethylhexyl)phthalate | 13.95 | 149 | 1079051 | 43.96 | ng | | 99 |
| 84) Di-n-octyl phthalate | 14.57 | 149 | 2047817 | 49.15 | ng | # | 90 |
| 85) Indeno(1,2,3-cd)pyrene | 16.75 | 276 | 1454158 | 42.99 | ng | | 99 |
| 87) Benzo(b)fluoranthene | 14.98 | 252 | 1695218m | 47.54 | ng | | |
| 88) Benzo(k)fluoranthene | 15.00 | 252 | 1184350m | 37.77 | ng | | |
| 89) Benzo(a)pyrene | 15.32 | 252 | 1421501 | 44.25 | ng | # | 95 |
| 90) Dibenzo(a,h)anthracene | 16.76 | 278 | 1190595 | 41.37 | ng | | 99 |
| 91) Benzo(g,h,i)perylene | 17.16 | 276 | 1236360 | 42.21 | ng | | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120916\
Data File : BF091539.D
Acq On : 9 Dec 2016 20:48
Operator : UM/SJ
Sample : PB94152BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 09 22:49:24 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 09 19:00:21 2016
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB95152BS

**Manual Integrations APPROVED**
sohil
12/12/2016 6:49:55 PM