Quantitation Report (QT Reviewed)

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF022818\
Data File : BF103310.D
Acq On : 28 Feb 2018 22:58
Operator : SJ/JU
Sample : J1708-01MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RO-222-226MS

**Manual Integrations APPROVED**
Sohil
3/1/2018 11:43:29 AM

Quant Time: Mar 01 01:17:01 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 27 17:05:20 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.87 | 152 | 146978 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.16 | 136 | 623910 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 9.92 | 164 | 265368 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 11.40 | 188 | 370561 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 14.06 | 240 | 237157 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 15.55 | 264 | 238893 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.50 | 112 | 1186013 | 122.04 | ng | | 0.01 |
| 7) Phenol-d6 | 6.52 | 99 | 1392213 | 117.08 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.45 | 82 | 884332 | 80.95 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.71 | 330 | 218325 | 97.20 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 9.23 | 172 | 1254833 | 80.41 | ng | | 0.00 |
| 78) Terphenyl-d14 | 12.99 | 244 | 799214 | 81.01 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.70 | 88 | 192750 | 37.553 | ng | | 91 |
| 3) Pyridine | 3.49 | 79 | 509813 | 37.205 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.43 | 42 | 301172 | 54.498 | ng | # | 89 |
| 6) Aniline | 6.54 | 93 | 374953 | 21.848 | ng | # | 88 |
| 8) 2-Chlorophenol | 6.66 | 128 | 418669 | 41.471 | ng | | 92 |
| 9) Benzaldehyde | 6.43 | 77 | 205360 | 25.620 | ng | | 97 |
| 10) Phenol | 6.53 | 94 | 556041 | 40.279 | ng | | 88 |
| 11) bis(2-Chloroethyl)ether | 6.61 | 93 | 434129 | 41.435 | ng | | 90 |
| 12) 1,3-Dichlorobenzene | 6.82 | 146 | 427918 | 37.092 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.89 | 146 | 432008 | 37.350 | ng | | 100 |
| 14) 1,2-Dichlorobenzene | 7.05 | 146 | 395546 | 37.087 | ng | | 100 |
| 15) Benzyl Alcohol | 7.02 | 79 | 353630 | 39.464 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropropan | 7.15 | 45 | 689970 | 38.349 | ng | | 91 |
| 17) 2-Methylphenol | 7.13 | 107 | 354384 | 38.628 | ng | # | 94 |
| 18) Hexachloroethane | 7.38 | 117 | 144160 | 34.237 | ng | | 94 |
| 19) n-Nitroso-di-n-propylamine | 7.29 | 70 | 284998 | 38.509 | ng | | 95 |
| 20) 3+4-Methylphenols | 7.29 | 107 | 412404 | 36.876 | ng | # | 59 |
| 22) Acetophenone | 7.29 | 105 | 546505 | 37.527 | ng | # | 90 |
| 24) Nitrobenzene | 7.46 | 77 | 466852 | 38.812 | ng | | 99 |
| 25) Isophorone | 7.70 | 82 | 869996 | 40.433 | ng | | 98 |
| 26) 2-Nitrophenol | 7.77 | 139 | 225541 | 39.830 | ng | | 94 |
| 27) 2,4-Dimethylphenol | 7.81 | 122 | 362201 | 41.847 | ng | | 99 |
| 28) bis(2-Chloroethoxy)methane | 7.90 | 93 | 541454 | 42.800 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.02 | 162 | 339570 | 40.977 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.10 | 180 | 327759 | 37.142 | ng | | 97 |
| 31) Naphthalene | 8.18 | 128 | 1143326 | 37.430 | ng | | 100 |
| 32) Benzoic acid | 7.92 | 122 | 81163 | 17.733 | ng | | 98 |
| 33) 4-Chloroaniline | 8.23 | 127 | 159058 | 12.067 | ng | | 96 |
| 34) Hexachlorobutadiene | 8.29 | 225 | 162126 | 35.281 | ng | | 99 |
| 35) Caprolactam | 8.60 | 113 | 116860m | 40.125 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.72 | 107 | 374117 | 40.026 | ng | | 100 |
| 37) 2-Methylnaphthalene | 8.87 | 142 | 747606 | 37.871 | ng | | 100 |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.04 | 216 | 275726 | 38.007 | ng | | 98 |
| 40) Hexachlorocyclopentadiene | 9.02 | 237 | 20482 | 16.002 | ng | | 96 |

Quantitation Report (QT Reviewed)

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF022818\
Data File : BF103310.D
Acq On : 28 Feb 2018 22:58
Operator : SJ/JU
Sample : J1708-01MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RO-222-226MS

**Manual Integrations APPROVED**
Sohil
3/1/2018 11:43:29 AM

Quant Time: Mar 01 01:17:01 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 27 17:05:20 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 2,4,6-Trichlorophenol | 9.15 | 196 | 200310 | 41.035 | ng | | 97 |
| 43) 2,4,5-Trichlorophenol | 9.20 | 196 | 209220 | 37.265 | ng | | 98 |
| 45) 1,1'-Biphenyl | 9.33 | 154 | 829637 | 37.310 | ng | | 99 |
| 46) 2-Chloronaphthalene | 9.36 | 162 | 660248 | 37.531 | ng | | 99 |
| 47) 2-Nitroaniline | 9.46 | 65 | 264605 | 40.606 | ng | | 87 |
| 48) Acenaphthylene | 9.78 | 152 | 977800 | 36.125 | ng | | 99 |
| 49) Dimethylphthalate | 9.63 | 163 | 905824 | 42.550 | ng | | 100 |
| 50) 2,6-Dinitrotoluene | 9.70 | 165 | 170745 | 38.220 | ng | | 96 |
| 51) Acenaphthene | 9.95 | 154 | 561130 | 35.552 | ng | | 99 |
| 52) 3-Nitroaniline | 9.87 | 138 | 136314 | 24.050 | ng | | 99 |
| 53) 2,4-Dinitrophenol | 10.00 | 184 | 7208 | 13.551 | ng | # | 20 |
| 54) Dibenzofuran | 10.12 | 168 | 820132 | 37.853 | ng | | 97 |
| 55) 4-Nitrophenol | 10.05 | 139 | 211841 | 60.305 | ng | | 92 |
| 56) 2,4-Dinitrotoluene | 10.11 | 165 | 206257 | 36.505 | ng | # | 90 |
| 57) Fluorene | 10.47 | 166 | 629963 | 34.132 | ng | | 99 |
| 58) 2,3,4,6-Tetrachlorophenol | 10.25 | 232 | 136936 | 36.307 | ng | | 97 |
| 59) Diethylphthalate | 10.33 | 149 | 767815 | 37.711 | ng | | 98 |
| 60) 4-Chlorophenyl-phenylether | 10.45 | 204 | 295292 | 37.728 | ng | | 98 |
| 61) 4-Nitroaniline | 10.49 | 138 | 168950 | 29.843 | ng | | 91 |
| 62) Azobenzene | 10.62 | 77 | 757885 | 36.569 | ng | | 97 |
| 64) 4,6-Dinitro-2-methylphenol | 10.52 | 198 | 12232 | 9.812 | ng | | 86 |
| 65) n-Nitrosodiphenylamine | 10.57 | 169 | 572681 | 44.386 | ng | | 100 |
| 66) 4-Bromophenyl-phenylether | 10.95 | 248 | 164930 | 42.726 | ng | | 93 |
| 67) Hexachlorobenzene | 11.02 | 284 | 160254 | 38.249 | ng | | 97 |
| 68) Atrazine | 11.10 | 200 | 168275 | 43.392 | ng | | 97 |
| 69) Pentachlorophenol | 11.22 | 266 | 120949 | 59.703 | ng | | 98 |
| 70) Phenanthrene | 11.43 | 178 | 750867 | 36.820 | ng | | 98 |
| 71) Anthracene | 11.49 | 178 | 779679 | 37.284 | ng | | 99 |
| 72) Carbazole | 11.64 | 167 | 726906 | 34.906 | ng | | 100 |
| 73) Di-n-butylphthalate | 11.96 | 149 | 1050197 | 40.302 | ng | | 99 |
| 74) Fluoranthene | 12.62 | 202 | 649997 | 31.718 | ng | | 98 |
| 76) Benzidine | 12.75 | 184 | 378998 | 42.747 | ng | | 98 |
| 77) Pyrene | 12.86 | 202 | 667099 | 36.078 | ng | | 99 |
| 79) Butylbenzylphthalate | 13.46 | 149 | 363148 | 37.173 | ng | | 93 |
| 80) Benzo(a)anthracene | 14.05 | 228 | 582113 | 37.830 | ng | | 100 |
| 81) 3,3'-Dichlorobenzidine | 14.00 | 252 | 214759 | 39.107 | ng | | 99 |
| 82) Chrysene | 14.08 | 228 | 551694 | 36.925 | ng | | 99 |
| 83) Bis(2-ethylhexyl)phthalate | 14.01 | 149 | 491891 | 37.312 | ng | # | 99 |
| 84) Di-n-octyl phthalate | 14.63 | 149 | 903760 | 42.430 | ng | | 96 |
| 85) Indeno(1,2,3-cd)pyrene | 17.08 | 276 | 460774 | 38.955 | ng | | 97 |
| 87) Benzo(b)fluoranthene | 15.12 | 252 | 595957 | 37.942 | ng | | 97 |
| 88) Benzo(k)fluoranthene | 15.14 | 252 | 605260 | 40.922 | ng | | 98 |
| 89) Benzo(a)pyrene | 15.49 | 252 | 556401 | 39.668 | ng | | 98 |
| 90) Dibenzo(a,h)anthracene | 17.09 | 278 | 401318 | 37.028 | ng | | 98 |
| 91) Benzo(g,h,i)perylene | 17.54 | 276 | 364906 | 34.449 | ng | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF022818\
Data File : BF103310.D
Acq On : 28 Feb 2018 22:58
Operator : SJ/JU
Sample : J1708-01MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 01 01:17:01 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 27 17:05:20 2018
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
RO-222-226MS

**Manual Integrations APPROVED**
Sohil
3/1/2018 11:43:29 AM