Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100517\
Data File : BF099099.D
Acq On : 5 Oct 2017 12:29
Operator : SJ/JU
Sample : I5275-02
Misc : LOQ 20 PPM
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LOQ-SOIL-02-QT4-2017

Quant Time: Oct 05 17:14:13 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 05 09:04:50 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.86 | 152 | 114152 | 20.00 | ng | | -0.06 |
| 21) Naphthalene-d8 | 8.15 | 136 | 478308 | 20.00 | ng | | -0.06 |
| 38) Acenaphthene-d10 | 9.90 | 164 | 216876 | 20.00 | ng | | -0.06 |
| 63) Phenanthrene-d10 | 11.39 | 188 | 387945 | 20.00 | ng | | -0.06 |
| 75) Chrysene-d12 | 14.03 | 240 | 319020 | 20.00 | ng | | -0.06 |
| 86) Perylene-d12 | 15.50 | 264 | 294329 | 20.00 | ng | | -0.07 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.49 | 112 | 1057525 | 147.48 | ng | | -0.05 |
| 7) Phenol-d6 | 6.50 | 99 | 1294608 | 146.35 | ng | | -0.05 |
| 23) Nitrobenzene-d5 | 7.43 | 82 | 690323 | 92.56 | ng | | -0.05 |
| 41) 2,4,6-Tribromophenol | 10.70 | 330 | 269473 | 151.85 | ng | | -0.05 |
| 44) 2-Fluorobiphenyl | 9.22 | 172 | 1212946 | 93.37 | ng | | -0.06 |
| 78) Terphenyl-d14 | 12.97 | 244 | 1100844 | 78.48 | ng | | -0.06 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.64 | 88 | 68538 | 20.009 | ng | | 96 |
| 3) Pyridine | 3.46 | 79 | 188773 | 20.372 | ng | | 94 |
| 4) n-Nitrosodimethylamine | 3.36 | 42 | 74709 | 19.013 | ng | | 87 |
| 6) Aniline | 6.53 | 93 | 247870 | 20.761 | ng | | 99 |
| 8) 2-Chlorophenol | 6.65 | 128 | 168504 | 20.750 | ng | | 98 |
| 9) Benzaldehyde | 6.42 | 77 | 78712 | 15.340 | ng | | 94 |
| 10) Phenol | 6.51 | 94 | 203605 | 20.580 | ng | | 97 |
| 11) bis(2-Chloroethyl)ether | 6.60 | 93 | 158673 | 20.631 | ng | | 98 |
| 12) 1,3-Dichlorobenzene | 6.80 | 146 | 181847 | 21.382 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.88 | 146 | 187450 | 21.663 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.04 | 146 | 171151 | 21.407 | ng | | 96 |
| 15) Benzyl Alcohol | 7.00 | 79 | 135049 | 20.810 | ng | | 96 |
| 16) 2,2'-oxybis(1-Chloropropan | 7.13 | 45 | 236369 | 19.726 | ng | | 99 |
| 17) 2-Methylphenol | 7.11 | 107 | 136170 | 20.494 | ng | | 99 |
| 18) Hexachloroethane | 7.37 | 117 | 64520 | 20.745 | ng | | 94 |
| 19) n-Nitroso-di-n-propylamine | 7.27 | 70 | 113539 | 20.103 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.26 | 107 | 178999 | 21.295 | ng | | 93 |
| 22) Acetophenone | 7.27 | 105 | 242354 | 20.913 | ng | # | 96 |
| 24) Nitrobenzene | 7.45 | 77 | 174951 | 20.678 | ng | | 91 |
| 25) Isophorone | 7.68 | 82 | 304909 | 19.773 | ng | | 99 |
| 26) 2-Nitrophenol | 7.76 | 139 | 91564 | 22.506 | ng | | 91 |
| 27) 2,4-Dimethylphenol | 7.79 | 122 | 150755 | 19.621 | ng | | 98 |
| 28) bis(2-Chloroethoxy)methane | 7.89 | 93 | 199425 | 20.752 | ng | | 98 |
| 29) 2,4-Dichlorophenol | 8.00 | 162 | 138034 | 20.924 | ng | | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.09 | 180 | 140853 | 21.348 | ng | | 99 |
| 31) Naphthalene | 8.17 | 128 | 488408 | 21.741 | ng | | 99 |
| 32) Benzoic acid | 7.90 | 122 | 74967 | 11.878 | ng | | 97 |
| 33) 4-Chloroaniline | 8.22 | 127 | 197617 | 21.065 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.28 | 225 | 70740 | 20.816 | ng | | 98 |
| 35) Caprolactam | 8.57 | 113 | 42765 | 20.210 | ng | | 91 |
| 36) 4-Chloro-3-methylphenol | 8.69 | 107 | 153585 | 20.714 | ng | | 95 |
| 37) 2-Methylnaphthalene | 8.86 | 142 | 313461 | 21.465 | ng | | 99 |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.03 | 216 | 142832 | 22.083 | ng | | 99 |
| 40) Hexachlorocyclopentadiene | 9.01 | 237 | 25349 | 8.576 | ng | | 95 |

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100517\
Data File : BF099099.D
Acq On : 5 Oct 2017 12:29
Operator : SJ/JU
Sample : I5275-02
Misc : LOO 20 PPM
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LOQ-SOIL-02-QT4-2017

Quant Time: Oct 05 17:14:13 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 05 09:04:50 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 2,4,6-Trichlorophenol | 9.13 | 196 | 92472 | 20.181 | ng | | 99 |
| 43) 2,4,5-Trichlorophenol | 9.17 | 196 | 92918 | 20.314 | ng | | 94 |
| 45) 1,1'-Biphenyl | 9.32 | 154 | 413429 | 22.181 | ng | | 99 |
| 46) 2-Chloronaphthalene | 9.35 | 162 | 305095 | 21.801 | ng | | 95 |
| 47) 2-Nitroaniline | 9.45 | 65 | 90054 | 21.015 | ng | | 94 |
| 48) Acenaphthylene | 9.76 | 152 | 467967 | 21.844 | ng | | 99 |
| 49) Dimethylphthalate | 9.62 | 163 | 348871 | 21.313 | ng | | 100 |
| 50) 2,6-Dinitrotoluene | 9.69 | 165 | 77740 | 21.815 | ng | # | 85 |
| 51) Acenaphthene | 9.93 | 154 | 281961 | 20.777 | ng | | 99 |
| 52) 3-Nitroaniline | 9.85 | 138 | 91219 | 21.953 | ng | | 97 |
| 53) 2,4-Dinitrophenol | 9.96 | 184 | 25295 | 18.469 | ng | | 92 |
| 54) Dibenzofuran | 10.10 | 168 | 395283 | 21.876 | ng | | 98 |
| 55) 4-Nitrophenol | 10.01 | 139 | 67895 | 19.324 | ng | | 84 |
| 56) 2,4-Dinitrotoluene | 10.09 | 165 | 104361 | 22.565 | ng | | 96 |
| 57) Fluorene | 10.45 | 166 | 329728 | 22.704 | ng | | 99 |
| 58) 2,3,4,6-Tetrachlorophenol | 10.22 | 232 | 63188 | 19.998 | ng | | 98 |
| 59) Diethylphthalate | 10.32 | 149 | 338319 | 21.152 | ng | | 99 |
| 60) 4-Chlorophenyl-phenylether | 10.44 | 204 | 141299 | 21.659 | ng | | 97 |
| 61) 4-Nitroaniline | 10.46 | 138 | 91926 | 22.932 | ng | | 94 |
| 62) Azobenzene | 10.60 | 77 | 302571 | 20.574 | ng | | 98 |
| 64) 4,6-Dinitro-2-methylphenol | 10.50 | 198 | 46853 | 19.850 | ng | | 87 |
| 65) n-Nitrosodiphenylamine | 10.56 | 169 | 288769 | 21.486 | ng | | 99 |
| 66) 4-Bromophenyl-phenylether | 10.93 | 248 | 80050 | 21.081 | ng | | 99 |
| 67) Hexachlorobenzene | 11.00 | 284 | 85708 | 21.133 | ng | | 95 |
| 68) Atrazine | 11.08 | 200 | 84237 | 20.832 | ng | | 98 |
| 69) Pentachlorophenol | 11.19 | 266 | 37676 | 14.926 | ng | | 98 |
| 70) Phenanthrene | 11.42 | 178 | 460828 | 22.192 | ng | | 98 |
| 71) Anthracene | 11.46 | 178 | 472234 | 22.226 | ng | | 99 |
| 72) Carbazole | 11.62 | 167 | 461988 | 22.204 | ng | | 100 |
| 73) Di-n-butylphthalate | 11.94 | 149 | 540892 | 21.597 | ng | | 99 |
| 74) Fluoranthene | 12.60 | 202 | 470577 | 22.379 | ng | | 98 |
| 76) Benzidine | 12.72 | 184 | 208360 | 17.658 | ng | | 98 |
| 77) Pyrene | 12.83 | 202 | 491871 | 20.220 | ng | | 99 |
| 79) Butylbenzylphthalate | 13.44 | 149 | 230086 | 20.125 | ng | | 98 |
| 80) Benzo(a)anthracene | 14.02 | 228 | 412250 | 21.341 | ng | | 98 |
| 81) 3,3'-Dichlorobenzidine | 13.98 | 252 | 145923 | 20.606 | ng | | 98 |
| 82) Chrysene | 14.06 | 228 | 400635 | 21.784 | ng | | 97 |
| 83) Bis(2-ethylhexyl)phthalate | 14.00 | 149 | 329301 | 20.918 | ng | # | 99 |
| 84) Di-n-octyl phthalate | 14.61 | 149 | 559620 | 22.077 | ng | | 97 |
| 85) Indeno(1,2,3-cd)pyrene | 16.98 | 276 | 348657 | 23.699 | ng | | 96 |
| 87) Benzo(b)fluoranthene | 15.07 | 252 | 366070 | 20.229 | ng | | 96 |
| 88) Benzo(k)fluoranthene | 15.10 | 252 | 379958 | 21.258 | ng | | 100 |
| 89) Benzo(a)pyrene | 15.44 | 252 | 353862 | 21.302 | ng | | 99 |
| 90) Dibenzo(a,h)anthracene | 16.99 | 278 | 283436 | 21.321 | ng | | 96 |
| 91) Benzo(g,h,i)perylene | 17.43 | 276 | 275246 | 20.946 | ng | | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100517\
Data File : BF099099.D
Acq On : 5 Oct 2017 12:29
Operator : SJ/JU
Sample : I5275-02
Misc : LOO 20 PPM
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
LOQ-SOIL-02-QT4-2017

Quant Time: Oct 05 17:14:13 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 05 09:04:50 2017
Response via : Initial Calibration