Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080818\
Data File : BF108024.D
Acq On : 8 Aug 2018 17:21
Operator : JU/SJ
Sample : J3762-03
Misc : MDL 2 PPM
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MDL-SOIL-03-QT3-2018

**Manual Integrations APPROVED**
Sohil
8/9/2018 5:01:22 PM

Quant Time: Aug 09 06:58:09 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 08 12:24:24 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.01 | 152 | 139631 | 20.00 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.30 | 136 | 558911 | 20.00 | ng | 0.00 |
| 38) Acenaphthene-d10 | 10.06 | 164 | 297760 | 20.00 | ng | 0.00 |
| 63) Phenanthrene-d10 | 11.55 | 188 | 646710 | 20.00 | ng | 0.00 |
| 75) Chrysene-d12 | 14.21 | 240 | 570122 | 20.00 | ng | -0.01 |
| 86) Perylene-d12 | 15.77 | 264 | 476430 | 20.00 | ng | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.63 | 112 | 1035767 | 134.30 | ng | 0.00 |
| 7) Phenol-d6 | 6.62 | 99 | 1375584 | 134.22 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.57 | 82 | 841042 | 83.97 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.85 | 330 | 405286 | 136.46 | ng | 0.00 |
| 44) 2-Fluorobiphenyl | 9.37 | 172 | 1678468 | 90.50 | ng | 0.00 |
| 78) Terphenyl-d14 | 13.15 | 244 | 2123109 | 94.68 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.92 | 88 | 16757 | 4.228 | ng | # 89 |
| 3) Pyridine | 3.71 | 79 | 41614 | 4.076 | ng | # 73 |
| 4) n-Nitrosodimethylamine | 3.64 | 42 | 22863 | 3.980 | ng | # 77 |
| 6) Aniline | 6.67 | 93 | 35257 | 2.529 | ng | 95 |
| 8) 2-Chlorophenol | 6.80 | 128 | 37809 | 4.353 | ng | 95 |
| 9) Benzaldehyde | 6.57 | 77 | 31196 | 3.926 | ng | 95 |
| 10) Phenol | 6.63 | 94 | 46603 | 4.396 | ng | 78 |
| 11) bis(2-Chloroethyl)ether | 6.74 | 93 | 38450 | 4.486 | ng | 89 |
| 12) 1,3-Dichlorobenzene | 6.95 | 146 | 46285 | 4.608 | ng | 97 |
| 13) 1,4-Dichlorobenzene | 7.03 | 146 | 44958 | 4.455 | ng | 95 |
| 14) 1,2-Dichlorobenzene | 7.18 | 146 | 42313 | 4.508 | ng | 98 |
| 15) Benzyl Alcohol | 7.14 | 79 | 19810 | 2.296 | ng | 91 |
| 16) 2,2'-oxybis(1-Chloropropan | 7.28 | 45 | 75990 | 4.304 | ng | 97 |
| 17) 2-Methylphenol | 7.24 | 107 | 32555 | 4.370 | ng | 96 |
| 18) Hexachloroethane | 7.52 | 117 | 15359 | 4.275 | ng | 94 |
| 19) n-Nitroso-di-n-propylamine | 7.41 | 70 | 30180 | 4.355 | ng | 91 |
| 20) 3+4-Methylphenols | 7.40 | 107 | 42502 | 4.452 | ng | 95 |
| 22) Acetophenone | 7.41 | 105 | 60531 | 4.632 | ng | # 95 |
| 24) Nitrobenzene | 7.59 | 77 | 47281 | 4.668 | ng | 96 |
| 25) Isophorone | 7.82 | 82 | 79545 | 4.167 | ng | 95 |
| 26) 2-Nitrophenol | 7.91 | 139 | 11699 | 3.059 | ng | 91 |
| 27) 2,4-Dimethylphenol | 7.93 | 122 | 36096 | 4.260 | ng | 96 |
| 28) bis(2-Chloroethoxy)methane | 8.03 | 93 | 48704 | 4.370 | ng | # 98 |
| 29) 2,4-Dichlorophenol | 8.14 | 162 | 30228 | 3.877 | ng | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.23 | 180 | 38340 | 4.460 | ng | 95 |
| 31) Naphthalene | 8.32 | 128 | 124064 | 4.881 | ng | 98 |
| 32) Benzoic acid | 7.96 | 122 | 6050m | 7.052 | ng | |
| 33) 4-Chloroaniline | 8.36 | 127 | 28713 | 2.592 | ng | 98 |
| 34) Hexachlorobutadiene | 8.43 | 225 | 23414 | 4.302 | ng | 95 |
| 35) Caprolactam | 8.68 | 113 | 8324 | 3.407 | ng | # 72 |
| 36) 4-Chloro-3-methylphenol | 8.82 | 107 | 33798 | 4.018 | ng | 98 |
| 37) 2-Methylnaphthalene | 9.01 | 142 | 85028 | 4.728 | ng | 97 |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.17 | 216 | 39641 | 4.335 | ng | 98 |
| 40) Hexachlorocyclopentadiene | 9.16 | 237 | 20619 | 3.491 | ng | 98 |

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080818\
Data File : BF108024.D
Acq On : 8 Aug 2018 17:21
Operator : JU/SJ
Sample : J3762-03
Misc : MDL 2 PPM
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
MDL-SOIL-03-QT3-2018

**Manual Integrations APPROVED**
Sohil
8/9/2018 5:01:22 PM

Quant Time: Aug 09 06:58:09 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 08 12:24:24 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 2,4,6-Trichlorophenol | 9.28 | 196 | 18865m | 3.325 | ng | | |
| 43) 2,4,5-Trichlorophenol | 9.31 | 196 | 23144 | 3.705 | ng | | 96 |
| 45) 1,1'-Biphenyl | 9.47 | 154 | 108472 | 4.941 | ng | | 97 |
| 46) 2-Chloronaphthalene | 9.50 | 162 | 80380 | 4.632 | ng | | 96 |
| 47) 2-Nitroaniline | 9.59 | 65 | 20120 | 3.584 | ng | | 88 |
| 48) Acenaphthylene | 9.92 | 152 | 130659 | 4.763 | ng | | 99 |
| 49) Dimethylphthalate | 9.76 | 163 | 95603 | 4.609 | ng | # | 99 |
| 50) 2,6-Dinitrotoluene | 9.83 | 165 | 16169 | 3.726 | ng | | 93 |
| 51) Acenaphthene | 10.09 | 154 | 78635 | 4.680 | ng | | 97 |
| 52) 3-Nitroaniline | 10.00 | 138 | 15922 | 3.353 | ng | | 99 |
| 53) 2,4-Dinitrophenol | 10.10 | 184 | 2191 | 8.251 | ng | # | 1 |
| 54) Dibenzofuran | 10.27 | 168 | 120136 | 4.935 | ng | | 98 |
| 55) 4-Nitrophenol | 10.14 | 139 | 10444 | 2.905 | ng | | 81 |
| 56) 2,4-Dinitrotoluene | 10.23 | 165 | 19540 | 3.498 | ng | # | 89 |
| 57) Fluorene | 10.61 | 166 | 96591 | 5.013 | ng | | 98 |
| 58) 2,3,4,6-Tetrachlorophenol | 10.38 | 232 | 17501 | 3.352 | ng | # | 88 |
| 59) Diethylphthalate | 10.47 | 149 | 93455 | 4.653 | ng | | 100 |
| 60) 4-Chlorophenyl-phenylether | 10.60 | 204 | 50012 | 4.981 | ng | # | 87 |
| 61) 4-Nitroaniline | 10.61 | 138 | 18323 | 3.903 | ng | | 92 |
| 62) Azobenzene | 10.76 | 77 | 98607 | 4.754 | ng | | 93 |
| 64) 4,6-Dinitro-2-methylphenol | 10.64 | 198 | 3607 | 6.678 | ng | # | 74 |
| 65) n-Nitrosodiphenylamine | 10.71 | 169 | 84687 | 4.431 | ng | | 95 |
| 66) 4-Bromophenyl-phenylether | 11.10 | 248 | 30207 | 4.298 | ng | # | 82 |
| 67) Hexachlorobenzene | 11.15 | 284 | 32576 | 4.405 | ng | | 95 |
| 68) Atrazine | 11.23 | 200 | 26027 | 4.060 | ng | | 98 |
| 69) Pentachlorophenol | 11.35 | 266 | 8076 | 2.282 | ng | | 99 |
| 70) Phenanthrene | 11.58 | 178 | 151507 | 4.967 | ng | | 96 |
| 71) Anthracene | 11.63 | 178 | 152774 | 4.887 | ng | | 98 |
| 72) Carbazole | 11.78 | 167 | 130126 | 4.685 | ng | | 96 |
| 73) Di-n-butylphthalate | 12.11 | 149 | 135309 | 4.301 | ng | | 98 |
| 74) Fluoranthene | 12.77 | 202 | 160859 | 4.832 | ng | | 95 |
| 76) Benzidine | 12.89 | 184 | 18981m | 0.891 | ng | | |
| 77) Pyrene | 13.01 | 202 | 161908 | 4.486 | ng | | 99 |
| 79) Butylbenzylphthalate | 13.61 | 149 | 45969 | 3.207 | ng | | 92 |
| 80) Benzo(a)anthracene | 14.19 | 228 | 146380 | 4.474 | ng | | 100 |
| 81) 3,3'-Dichlorobenzidine | 14.15 | 252 | 23447 | 2.000 | ng | | 95 |
| 82) Chrysene | 14.23 | 228 | 144892 | 4.830 | ng | | 96 |
| 83) Bis(2-ethylhexyl)phthalate | 14.17 | 149 | 68926 | 3.551 | ng | | 98 |
| 84) Di-n-octyl phthalate | 14.79 | 149 | 98276 | 3.320 | ng | # | 93 |
| 85) Indeno(1,2,3-cd)pyrene | 17.37 | 276 | 94254 | 3.626 | ng | # | 92 |
| 87) Benzo(b)fluoranthene | 15.29 | 252 | 117219 | 4.117 | ng | | 97 |
| 88) Benzo(k)fluoranthene | 15.32 | 252 | 121229 | 4.632 | ng | | 96 |
| 89) Benzo(a)pyrene | 15.69 | 252 | 105831 | 4.151 | ng | | 97 |
| 90) Dibenzo(a,h)anthracene | 17.39 | 278 | 78139 | 3.705 | ng | | 97 |
| 91) Benzo(g,h,i)perylene | 17.86 | 276 | 75228 | 3.622 | ng | | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080818\
Data File : BF108024.D
Acq On : 8 Aug 2018 17:21
Operator : JU/SJ
Sample : J3762-03
Misc : MDL 2 PPM
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 09 06:58:09 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 08 12:24:24 2018
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
MDL-SOIL-03-QT3-2018

**Manual Integrations APPROVED**
Sohil
8/9/2018 5:01:22 PM