Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070920\
Data File : BF120811.D
Acq On : 9 Jul 2020 11:32
Operator : JU/CG
Sample : L3216-01
Misc : LOD-MDL-SOIL-8PPM
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
LOD-MDL-SOIL-01-QT3-2020

**Manual Integrations APPROVED**
mohammad
7/10/2020 11:49:31 AM

Quant Time: Jul 09 12:17:40 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070220.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 09 11:36:34 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.85 | 152 | 136434 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.13 | 136 | 507072 | 20.00 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.88 | 164 | 247149 | 20.00 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.37 | 188 | 435077 | 20.00 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.00 | 240 | 312942 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 15.46 | 264 | 259786 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.46 | 112 | 820735 | 92.86 | ng | | 0.00 |
| 7) Phenol-d6 | 6.47 | 99 | 1046128 | 92.68 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.41 | 82 | 697105 | 79.65 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.67 | 330 | 245573 | 98.90 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.21 | 172 | 1273040 | 77.93 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.96 | 244 | 1007034 | 63.00 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.58 | 88 | 32317 | 8.005 | ng | | 98 |
| 3) Pyridine | 3.36 | 79 | 57713 | 5.219 | ng | | 98 |
| 4) n-Nitrosodimethylamine | 3.26 | 42 | 35462 | 6.410 | ng | | 95 |
| 6) Aniline | 6.50 | 93 | 101872 | 7.028 | ng | | 99 |
| 8) 2-Chlorophenol | 6.63 | 128 | 65941 | 7.008 | ng | | 92 |
| 9) Benzaldehyde | 6.39 | 77 | 57571 | 8.576 | ng | | 95 |
| 10) Phenol | 6.48 | 94 | 82284 | 7.087 | ng | | 95 |
| 11) bis(2-Chloroethyl)ether | 6.58 | 93 | 64920 | 6.871 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.79 | 146 | 71910 | 6.943 | ng | | 96 |
| 13) 1,4-Dichlorobenzene | 6.86 | 146 | 73070 | 7.044 | ng | | 98 |
| 14) 1,2-Dichlorobenzene | 7.02 | 146 | 69841 | 7.076 | ng | | 99 |
| 15) Benzyl Alcohol | 6.98 | 79 | 64687 | 7.628 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropropan | 7.12 | 45 | 97296 | 6.602 | ng | | 99 |
| 17) 2-Methylphenol | 7.09 | 107 | 50377 | 5.984 | ng | | 95 |
| 18) Hexachloroethane | 7.36 | 117 | 26537 | 6.806 | ng | | 94 |
| 19) n-Nitroso-di-n-propylamine | 7.25 | 70 | 45396 | 6.680 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.24 | 107 | 66495 | 6.413 | ng | | 93 |
| 22) Acetophenone | 7.25 | 105 | 97049 | 7.700 | ng | | 95 |
| 24) Nitrobenzene | 7.42 | 77 | 74370 | 7.568 | ng | | 94 |
| 25) Isophorone | 7.66 | 82 | 122902 | 6.512 | ng | | 98 |
| 26) 2-Nitrophenol | 7.74 | 139 | 21830 | 6.077 | ng | | 93 |
| 27) 2,4-Dimethylphenol | 7.77 | 122 | 53830 | 7.144 | ng | | 98 |
| 28) bis(2-Chloroethoxy)methane | 7.87 | 93 | 78415 | 7.020 | ng | # | 97 |
| 29) 2,4-Dichlorophenol | 7.98 | 162 | 48932 | 6.505 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.07 | 180 | 56407 | 6.677 | ng | | 96 |
| 31) Naphthalene | 8.15 | 128 | 196196 | 7.240 | ng | | 98 |
| 32) Benzoic acid | 7.83 | 122 | 17881 | 4.385 | ng | | 93 |
| 33) 4-Chloroaniline | 8.19 | 127 | 75157 | 6.536 | ng | | 95 |
| 34) Hexachlorobutadiene | 8.27 | 225 | 33011 | 6.497 | ng | | 97 |
| 35) Caprolactam | 8.52 | 113 | 12661 | 5.777 | ng | | 96 |
| 36) 4-Chloro-3-methylphenol | 8.67 | 107 | 49640 | 6.344 | ng | | 95 |
| 37) 2-Methylnaphthalene | 8.84 | 142 | 123011 | 6.983 | ng | | 98 |
| 38) 1-Methylnaphthalene | 8.94 | 142 | 116866 | 7.082 | ng | | 100 |
| 40) 1,2,4,5-Tetrachlorobenzene | 9.00 | 216 | 54382 | 7.281 | ng | | 98 |

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|---|---|---|---|---|---|---|---|
| 41) Hexachlorocyclopentadiene | 9.00 | 237 | 26175 | 5.931 | ng | | 97 |
| 43) 2,4,6-Trichlorophenol | 9.12 | 196 | 30275 | 5.948 | ng | | 98 |
| 44) 2,4,5-Trichlorophenol | 9.15 | 196 | 32953 | 5.834 | ng | | 97 |
| 46) 1,1'-Biphenyl | 9.30 | 154 | 155066 | 7.778 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.33 | 162 | 109796 | 6.875 | ng | | 99 |
| 48) 2-Nitroaniline | 9.42 | 65 | 28311 | 6.625 | ng | | 86 |
| 49) Acenaphthylene | 9.75 | 152 | 174607 | 6.973 | ng | | 98 |
| 50) Dimethylphthalate | 9.60 | 163 | 119820 | 6.646 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.66 | 165 | 21292 | 6.537 | ng | | 89 |
| 52) Acenaphthene | 9.92 | 154 | 105738 | 6.807 | ng | | 99 |
| 53) 3-Nitroaniline | 9.83 | 138 | 25115 | 6.241 | ng | | 97 |
| 54) 2,4-Dinitrophenol | 9.93 | 184 | 3076 | 2.860 | ng | # | 1 |
| 55) Dibenzofuran | 10.09 | 168 | 155687 | 6.953 | ng | | 99 |
| 56) 4-Nitrophenol | 9.97 | 139 | 15827 | 5.355 | ng | | 93 |
| 57) 2,4-Dinitrotoluene | 10.06 | 165 | 25319 | 6.475 | ng | | 98 |
| 58) Fluorene | 10.43 | 166 | 117158 | 7.030 | ng | | 98 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.20 | 232 | 25095m | 5.970 | ng | | |
| 60) Diethylphthalate | 10.30 | 149 | 119208 | 6.347 | ng | | 98 |
| 61) 4-Chlorophenyl-phenylether | 10.42 | 204 | 57125 | 6.818 | ng | | 95 |
| 62) 4-Nitroaniline | 10.43 | 138 | 23271 | 6.075 | ng | | 90 |
| 63) Azobenzene | 10.58 | 77 | 130430 | 6.789 | ng | | 92 |
| 65) 4,6-Dinitro-2-methylphenol | 10.46 | 198 | 5757 | 4.118 | ng | | 95 |
| 66) n-Nitrosodiphenylamine | 10.54 | 169 | 99377 | 6.815 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.92 | 248 | 30105 | 5.965 | ng | | 95 |
| 68) Hexachlorobenzene | 10.97 | 284 | 33935 | 6.408 | ng | | 97 |
| 69) Atrazine | 11.06 | 200 | 27010 | 7.190 | ng | | 98 |
| 70) Pentachlorophenol | 11.17 | 266 | 13487 | 4.501 | ng | | 97 |
| 71) Phenanthrene | 11.39 | 178 | 163685 | 6.934 | ng | | 98 |
| 72) Anthracene | 11.44 | 178 | 162568 | 6.815 | ng | | 98 |
| 73) Carbazole | 11.59 | 167 | 145824 | 6.361 | ng | | 98 |
| 74) Di-n-butylphthalate | 11.93 | 149 | 161691 | 5.697 | ng | | 99 |
| 75) Fluoranthene | 12.57 | 202 | 159238 | 6.332 | ng | | 98 |
| 77) Benzidine | 12.70 | 184 | 56305 | 6.374 | ng | | 96 |
| 78) Pyrene | 12.80 | 202 | 166179 | 6.649 | ng | | 98 |
| 80) Butylbenzylphthalate | 13.43 | 149 | 51470 | 4.770 | ng | | 97 |
| 81) Benzo(a)anthracene | 13.99 | 228 | 134635 | 6.712 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.96 | 252 | 37984 | 5.611 | ng | # | 99 |
| 83) Chrysene | 14.03 | 228 | 129874 | 6.347 | ng | | 97 |
| 84) Bis(2-ethylhexyl)phthalate | 13.99 | 149 | 82552 | 5.834 | ng | | 98 |
| 85) Di-n-octyl phthalate | 14.60 | 149 | 100274 | 4.006 | ng | | 97 |
| 87) Indeno(1,2,3-cd)pyrene | 16.90 | 276 | 97341 | 5.842 | ng | | 97 |
| 88) Benzo(b)fluoranthene | 15.04 | 252 | 101477 | 5.942 | ng | | 97 |
| 89) Benzo(k)fluoranthene | 15.06 | 252 | 108672 | 6.539 | ng | | 98 |
| 90) Benzo(a)pyrene | 15.40 | 252 | 88742 | 5.825 | ng | | 98 |
| 91) Dibenzo(a,h)anthracene | 16.93 | 278 | 83567 | 6.017 | ng | | 95 |
| 92) Benzo(g,h,i)perylene | 17.34 | 276 | 81349 | 6.409 | ng | | 98 |

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

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