Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122618\
Data File : BF111716.D
Acq On : 26 Dec 2018 15:17
Operator : JU/SJ
Sample : J6525-01MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
S-1(5)MSD

**Manual Integrations APPROVED**
Sohil
12/27/2018 8:22:21 AM

Quant Time: Dec 26 16:25:23 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 26 13:36:07 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.90 | 152 | 172961 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.19 | 136 | 673283 | 20.00 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.94 | 164 | 347877 | 20.00 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.43 | 188 | 643429 | 20.00 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.06 | 240 | 434956 | 20.00 | ng | | 0.00 |
| 87) Perylene-d12 | 15.55 | 264 | 404824 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.54 | 112 | 1197231 | 117.99 | ng | | 0.00 |
| 7) Phenol-d6 | 6.55 | 99 | 1582091 | 122.51 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.46 | 82 | 1015552 | 87.80 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.73 | 330 | 496763 | 120.85 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.26 | 172 | 1868966 | 78.31 | ng | | 0.00 |
| 79) Terphenyl-d14 | 13.01 | 244 | 1780115 | 77.61 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.73 | 88 | 148675 | 31.142 | ng | | 97 |
| 3) Pyridine | 3.50 | 79 | 409356 | 32.912 | ng | | 98 |
| 4) n-Nitrosodimethylamine | 3.43 | 42 | 255036 | 41.898 | ng | | 83 |
| 6) Aniline | 6.56 | 93 | 277608 | 16.865 | ng | # | 20 |
| 8) 2-Chlorophenol | 6.69 | 128 | 463664 | 41.250 | ng | | 99 |
| 9) Benzaldehyde | 6.45 | 77 | 225099 | 25.345 | ng | | 95 |
| 10) Phenol | 6.56 | 94 | 624849 | 42.884 | ng | | 91 |
| 11) bis(2-Chloroethyl)ether | 6.63 | 93 | 426784 | 39.088 | ng | | 95 |
| 12) 1,3-Dichlorobenzene | 6.85 | 146 | 513837 | 39.446 | ng | | 97 |
| 13) 1,4-Dichlorobenzene | 6.92 | 146 | 523868 | 39.654 | ng | | 96 |
| 14) 1,2-Dichlorobenzene | 7.07 | 146 | 485624 | 39.399 | ng | | 98 |
| 15) Benzyl Alcohol | 7.04 | 79 | 426495 | 41.585 | ng | | 92 |
| 16) 2,2'-oxybis(1-Chloropropan | 7.17 | 45 | 737356 | 36.668 | ng | | 98 |
| 17) 2-Methylphenol | 7.16 | 107 | 373962 | 41.549 | ng | | 94 |
| 18) Hexachloroethane | 7.42 | 117 | 175672 | 39.460 | ng | # | 88 |
| 19) n-Nitroso-di-n-propylamine | 7.32 | 70 | 332608 | 38.783 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.31 | 107 | 457300 | 40.210 | ng | | 92 |
| 22) Acetophenone | 7.30 | 105 | 628928 | 36.872 | ng | # | 94 |
| 24) Nitrobenzene | 7.48 | 77 | 499806 | 41.227 | ng | | 98 |
| 25) Isophorone | 7.72 | 82 | 884699 | 43.083 | ng | | 100 |
| 26) 2-Nitrophenol | 7.80 | 139 | 239969 | 48.806 | ng | | 95 |
| 27) 2,4-Dimethylphenol | 7.84 | 122 | 398502 | 41.115 | ng | | 95 |
| 28) bis(2-Chloroethoxy)methane | 7.93 | 93 | 556470 | 40.723 | ng | | 98 |
| 29) 2,4-Dichlorophenol | 8.05 | 162 | 418428 | 40.137 | ng | | 96 |
| 30) 1,2,4-Trichlorobenzene | 8.13 | 180 | 446089 | 38.399 | ng | | 97 |
| 31) Naphthalene | 8.21 | 128 | 1338341 | 41.370 | ng | | 97 |
| 32) Benzoic acid | 7.93 | 122 | 145245 | 22.665 | ng | | 87 |
| 33) 4-Chloroaniline | 8.25 | 127 | 150626 | 10.772 | ng | | 96 |
| 34) Hexachlorobutadiene | 8.33 | 225 | 262887 | 37.130 | ng | | 98 |
| 35) Caprolactam | 8.61 | 113 | 129361m | 36.620 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.74 | 107 | 417708 | 40.761 | ng | | 100 |
| 37) 2-Methylnaphthalene | 8.90 | 142 | 923345 | 43.870 | ng | | 99 |
| 38) 1-Methylnaphthalene | 9.00 | 142 | 881705 | 43.618 | ng | | 99 |
| 40) 1,2,4,5-Tetrachlorobenzene | 9.06 | 216 | 446203 | 39.034 | ng | | 97 |

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122618\
Data File : BF111716.D
Acq On : 26 Dec 2018 15:17
Operator : JU/SJ
Sample : J6525-01MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
S-1(5)MSD

Manual Integrations APPROVED
Sohil
12/27/2018 8:22:21 AM

Quant Time: Dec 26 16:25:23 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 26 13:36:07 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Hexachlorocyclopentadiene | 9.05 | 237 | 365408 | 65.873 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.17 | 196 | 307533 | 40.295 | ng | | 98 |
| 44) 2,4,5-Trichlorophenol | 9.22 | 196 | 323226 | 41.282 | ng | | 96 |
| 46) 1,1'-Biphenyl | 9.36 | 154 | 1152137 | 39.234 | ng | | 94 |
| 47) 2-Chloronaphthalene | 9.39 | 162 | 891473 | 38.316 | ng | | 95 |
| 48) 2-Nitroaniline | 9.47 | 65 | 276997 | 45.764 | ng | | 99 |
| 49) Acenaphthylene | 9.80 | 152 | 1411262 | 41.544 | ng | | 96 |
| 50) Dimethylphthalate | 9.66 | 163 | 1426549 | 56.077 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.72 | 165 | 237359 | 46.793 | ng | # | 86 |
| 52) Acenaphthene | 9.97 | 154 | 865526 | 41.311 | ng | | 98 |
| 53) 3-Nitroaniline | 9.89 | 138 | 154246 | 28.512 | ng | | 94 |
| 54) 2,4-Dinitrophenol | 9.99 | 184 | 93077 | 59.261 | ng | # | 77 |
| 55) Dibenzofuran | 10.15 | 168 | 1266135 | 40.000 | ng | | 96 |
| 56) 4-Nitrophenol | 10.06 | 139 | 343272 | 83.146 | ng | | 90 |
| 57) 2,4-Dinitrotoluene | 10.12 | 165 | 312290 | 51.224 | ng | # | 98 |
| 58) Fluorene | 10.49 | 166 | 973682 | 42.688 | ng | | 98 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.26 | 232 | 275620 | 41.829 | ng | | 91 |
| 60) Diethylphthalate | 10.36 | 149 | 1061716 | 42.547 | ng | | 99 |
| 61) 4-Chlorophenyl-phenylether | 10.48 | 204 | 493364 | 39.150 | ng | | 91 |
| 62) 4-Nitroaniline | 10.50 | 138 | 215630 | 41.010 | ng | | 87 |
| 63) Azobenzene | 10.64 | 77 | 956886 | 38.195 | ng | | 95 |
| 65) 4,6-Dinitro-2-methylphenol | 10.53 | 198 | 89329 | 35.601 | ng | | 90 |
| 66) n-Nitrosodiphenylamine | 10.60 | 169 | 868369 | 40.205 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.97 | 248 | 312323 | 39.135 | ng | | 92 |
| 68) Hexachlorobenzene | 11.04 | 284 | 345763 | 38.858 | ng | | 98 |
| 69) Atrazine | 11.12 | 200 | 299390 | 39.900 | ng | | 96 |
| 70) Pentachlorophenol | 11.23 | 266 | 350310 | 63.681 | ng | | 97 |
| 71) Phenanthrene | 11.45 | 178 | 1401152 | 41.061 | ng | | 95 |
| 72) Anthracene | 11.50 | 178 | 1427872 | 41.688 | ng | | 96 |
| 73) Carbazole | 11.65 | 167 | 1222260 | 36.756 | ng | | 95 |
| 74) Di-n-butylphthalate | 11.98 | 149 | 1591040 | 42.674 | ng | | 97 |
| 75) Fluoranthene | 12.64 | 202 | 1317673 | 38.133 | ng | | 95 |
| 77) Benzidine | 13.01 | 184 | 22761 | 1.391 | ng | | 97 |
| 78) Pyrene | 12.87 | 202 | 1291904 | 42.060 | ng | | 96 |
| 80) Butylbenzylphthalate | 13.48 | 149 | 560431 | 44.761 | ng | | 89 |
| 81) Benzo(a)anthracene | 14.05 | 228 | 1029655 | 41.480 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.01 | 252 | 258810 | 26.389 | ng | # | 98 |
| 83) Chrysene | 14.09 | 228 | 985723 | 40.403 | ng | | 98 |
| 84) Bis(2-ethylhexyl)phthalate | 14.04 | 149 | 784069 | 49.716 | ng | # | 97 |
| 85) Di-n-octyl phthalate | 14.66 | 149 | 1183675 | 48.442 | ng | | 95 |
| 86) Indeno(1,2,3-cd)pyrene | 17.04 | 276 | 746690 | 36.003 | ng | # | 87 |
| 88) Benzo(b)fluoranthene | 15.12 | 252 | 979050 | 41.381 | ng | # | 95 |
| 89) Benzo(k)fluoranthene | 15.14 | 252 | 959323 | 42.590 | ng | # | 96 |
| 90) Benzo(a)pyrene | 15.49 | 252 | 904985 | 42.102 | ng | # | 95 |
| 91) Dibenzo(a,h)anthracene | 17.06 | 278 | 633073 | 33.634 | ng | # | 90 |
| 92) Benzo(g,h,i)perylene | 17.49 | 276 | 565757 | 30.782 | ng | # | 89 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122618\
Data File : BF111716.D
Acq On : 26 Dec 2018 15:17
Operator : JU/SJ
Sample : J6525-01MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 26 16:25:23 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 26 13:36:07 2018
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
S-1(5)MSD

**Manual Integrations APPROVED**
Sohil
12/27/2018 8:22:21 AM