

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM092024\  
 Data File : BM047592.D  
 Acq On : 20 Sep 2024 17:00  
 Operator : RC/JU  
 Sample : P2403-03  
 Misc : MDL-MDL-SOIL 8 ppm  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT2-2024

Quant Time: Sep 21 03:25:20 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM092024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 21 02:22:39 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/21/2024  
 Supervised By :mohammad ahmed 09/24/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.845  | 152  | 297142   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.639 | 136  | 1249095  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.474 | 164  | 669088   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.209 | 188  | 1236282  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.433 | 240  | 1032104  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.462 | 264  | 1097915  | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.422  | 112  | 2251785  | 116.131 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.004  | 99   | 2942130  | 115.157 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.998  | 82   | 1935729  | 77.145  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.956 | 330  | 669544   | 108.068 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.104 | 172  | 3617529  | 76.502  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.827 | 244  | 4125348  | 71.717  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.316  | 88   | 62922    | 7.453   | ng    | 99       |
| 3) Pyridine                   | 3.722  | 79   | 148064   | 6.327   | ng    | 98       |
| 4) n-Nitrosodimethylamine     | 3.622  | 42   | 69928    | 7.206   | ng    | # 91     |
| 6) Aniline                    | 7.169  | 93   | 190136   | 8.687   | ng    | 99       |
| 8) 2-Chlorophenol             | 7.410  | 128  | 149228   | 7.351   | ng    | 99       |
| 9) Benzaldehyde               | 6.981  | 77   | 139088m  | 10.668  | ng    |          |
| 10) Phenol                    | 7.034  | 94   | 185025   | 7.294   | ng    | 99       |
| 11) bis(2-Chloroethyl)ether   | 7.269  | 93   | 145676   | 7.145   | ng    | 100      |
| 12) 1,3-Dichlorobenzene       | 7.733  | 146  | 157172   | 7.001   | ng    | 97       |
| 13) 1,4-Dichlorobenzene       | 7.881  | 146  | 159934   | 7.041   | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 8.198  | 146  | 155874   | 7.119   | ng    | 96       |
| 15) Benzyl Alcohol            | 8.081  | 79   | 115444   | 7.003   | ng    | 98       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.363  | 45   | 202973   | 7.810   | ng    | 98       |
| 17) 2-Methylphenol            | 8.281  | 107  | 109004   | 6.837   | ng    | 96       |
| 18) Hexachloroethane          | 8.928  | 117  | 64751    | 7.030   | ng    | 92       |
| 19) n-Nitroso-di-n-propyla... | 8.645  | 70   | 106572   | 6.810   | ng    | 98       |
| 20) 3+4-Methylphenols         | 8.604  | 107  | 143563   | 6.611   | ng    | 96       |
| 22) Acetophenone              | 8.663  | 105  | 218522   | 6.715   | ng    | # 99     |
| 24) Nitrobenzene              | 9.039  | 77   | 176822   | 6.823   | ng    | 99       |
| 25) Isophorone                | 9.569  | 82   | 270176   | 6.443   | ng    | 99       |
| 26) 2-Nitrophenol             | 9.751  | 139  | 51167    | 5.615   | ng    | 96       |
| 27) 2,4-Dimethylphenol        | 9.810  | 122  | 88580    | 6.820   | ng    | 95       |
| 28) bis(2-Chloroethoxy)met... | 10.051 | 93   | 179561   | 6.656   | ng    | 96       |
| 29) 2,4-Dichlorophenol        | 10.286 | 162  | 101844   | 6.203   | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 10.504 | 180  | 121877   | 6.512   | ng    | 98       |
| 31) Naphthalene               | 10.692 | 128  | 434823   | 6.580   | ng    | 98       |
| 32) Benzoic acid              | 9.869  | 122  | 51661m   | 4.267   | ng    |          |
| 33) 4-Chloroaniline           | 10.792 | 127  | 161675   | 6.939   | ng    | 97       |
| 34) Hexachlorobutadiene       | 10.986 | 225  | 63108    | 6.196   | ng    | 99       |
| 35) Caprolactam               | 11.545 | 113  | 30517    | 5.377   | ng    | 95       |
| 36) 4-Chloro-3-methylphenol   | 11.916 | 107  | 108858   | 5.811   | ng    | 97       |
| 37) 2-Methylnaphthalene       | 12.298 | 142  | 260830   | 6.282   | ng    | 100      |
| 38) 1-Methylnaphthalene       | 12.521 | 142  | 241968   | 5.875   | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 12.668 | 216  | 115483   | 6.540   | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.657 | 237  | 44859    | 7.695   | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 12.910 | 196  | 65957    | 5.748   | ng    | 99       |

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| 44) 2,4,5-Trichlorophenol     | 12.974 | 196  | 72821    | 5.646  | ng    | 96       |
| 46) 1,1'-Biphenyl             | 13.310 | 154  | 348797   | 6.750  | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.351 | 162  | 254367   | 6.291  | ng    | 99       |
| 48) 2-Nitroaniline            | 13.545 | 65   | 62775    | 5.198  | ng    | 97       |
| 49) Acenaphthylene            | 14.198 | 152  | 388556   | 6.678  | ng    | 100      |
| 50) Dimethylphthalate         | 13.927 | 163  | 291743   | 6.315  | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 14.039 | 165  | 51790    | 5.351  | ng    | 98       |
| 52) Acenaphthene              | 14.539 | 154  | 236328m  | 6.148  | ng    |          |
| 53) 3-Nitroaniline            | 14.368 | 138  | 58622    | 5.281  | ng    | # 92     |
| 54) 2,4-Dinitrophenol         | 14.568 | 184  | 16970    | 3.868  | ng    | 98       |
| 55) Dibenzofuran              | 14.868 | 168  | 361228   | 6.431  | ng    | 100      |
| 56) 4-Nitrophenol             | 14.668 | 139  | 47047    | 4.946  | ng    | 95       |
| 57) 2,4-Dinitrotoluene        | 14.821 | 165  | 61759    | 4.789  | ng    | # 83     |
| 58) Fluorene                  | 15.521 | 166  | 284156   | 5.716  | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 15.092 | 232  | 57771    | 5.859  | ng    | 99       |
| 60) Diethylphthalate          | 15.292 | 149  | 292855   | 5.946  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.515 | 204  | 123602   | 5.690  | ng    | 98       |
| 62) 4-Nitroaniline            | 15.521 | 138  | 57818    | 4.623  | ng    | 98       |
| 63) Azobenzene                | 15.804 | 77   | 333548   | 6.195  | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 15.586 | 198  | 24076    | 4.110  | ng    | 90       |
| 66) n-Nitrosodiphenylamine    | 15.721 | 169  | 227963   | 6.174  | ng    | 100      |
| 67) 4-Bromophenyl-phenylether | 16.409 | 248  | 66941    | 5.961  | ng    | 93       |
| 68) Hexachlorobenzene         | 16.521 | 284  | 78146    | 5.952  | ng    | 98       |
| 69) Atrazine                  | 16.668 | 200  | 62471    | 7.028  | ng    | 96       |
| 70) Pentachlorophenol         | 16.862 | 266  | 39876    | 4.839  | ng    | 95       |
| 71) Phenanthrene              | 17.251 | 178  | 414505   | 6.177  | ng    | 100      |
| 72) Anthracene                | 17.345 | 178  | 392016   | 6.166  | ng    | 99       |
| 73) Carbazole                 | 17.603 | 167  | 384043   | 5.797  | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.180 | 149  | 430715   | 5.375  | ng    | 98       |
| 75) Fluoranthene              | 19.256 | 202  | 396486   | 5.367  | ng    | 98       |
| 77) Benzidine                 | 19.439 | 184  | 151996   | 10.814 | ng    | 100      |
| 78) Pyrene                    | 19.621 | 202  | 421499   | 5.835  | ng    | 100      |
| 80) Butylbenzylphthalate      | 20.521 | 149  | 161138   | 5.124  | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.415 | 228  | 433109   | 6.382  | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.338 | 252  | 120917   | 5.737  | ng    | 99       |
| 83) Chrysene                  | 21.480 | 228  | 404204   | 6.263  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.350 | 149  | 258871   | 5.146  | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.491 | 149  | 388774   | 5.009  | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 27.873 | 276  | 472630   | 6.260  | ng    | # 89     |
| 88) Benzo(b)fluoranthene      | 23.503 | 252  | 394747   | 5.721  | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.562 | 252  | 409542   | 6.046  | ng    | 98       |
| 90) Benzo(a)pyrene            | 24.315 | 252  | 355782   | 6.081  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 27.938 | 278  | 383531   | 6.082  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 28.938 | 276  | 367723   | 5.818  | ng    | 99       |

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

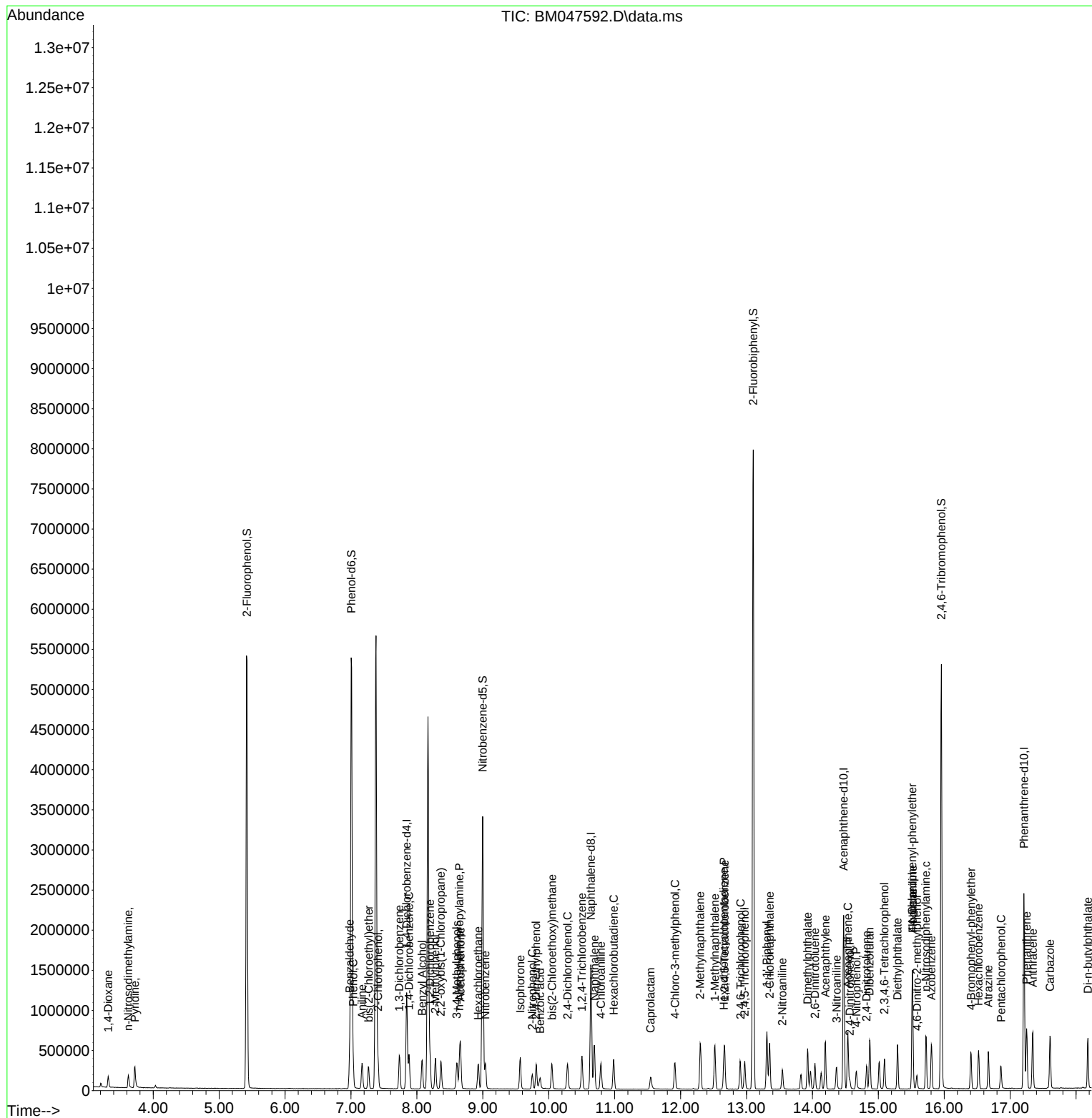
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