Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN061325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 13 18:43:34 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037225.D 0.2 =BN037226.D 0.4 =BN037227.D 0.8 =BN037228.D 1.6 =BN037229.D 3.2 =BN037230.D 5.0 =BN037231.D

| | | Compound | 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 5.0 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | |
| 2) | | 1,4-Dioxane | | 0.683 | 0.525 | 0.535 | 0.549 | 0.515 | 0.486 | 0.549 | 12.56 |
| 3) | | n-Nitrosodimet... | | 1.357 | 1.277 | 1.208 | 1.295 | 1.232 | 1.134 | 1.250 | 6.18 |
| 4) | S | 2-Fluorophenol | 1.043 | 1.026 | 0.942 | 0.907 | 0.996 | 0.990 | 0.972 | 0.982 | 4.80 |
| 5) | S | Phenol-d6 | 0.875 | 0.937 | 0.963 | 0.986 | 1.148 | 1.166 | 1.173 | 1.035 | 11.94 |
| 6) | | bis(2-Chloroet... | 0.768 | 0.709 | 0.870 | 0.955 | 1.086 | 1.064 | 1.040 | 0.927 | 16.08 |
| 7) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | |
| 8) | S | Nitrobenzene-d5 | 0.366 | 0.304 | 0.384 | 0.377 | 0.440 | 0.442 | 0.453 | 0.395 | 13.53 |
| 9) | | Naphthalene | 1.186 | 1.153 | 1.133 | 1.109 | 1.208 | 1.161 | 1.159 | 1.158 | 2.83 |
| 10) | | Hexachlorobuta... | 0.299 | 0.290 | 0.302 | 0.271 | 0.285 | 0.267 | 0.258 | 0.282 | 5.91 |
| 11) | SURR | 2-Methylnaphth... | 0.496 | 0.504 | 0.557 | 0.520 | 0.576 | 0.552 | 0.553 | 0.537 | 5.64 |
| 12) | | 2-Methylnaphth... | 0.631 | 0.634 | 0.704 | 0.699 | 0.769 | 0.746 | 0.745 | 0.704 | 7.77 |
| 13) | I | Acenaphthene-d10 | ---------- | ISTD | ---------- | | | | | | |
| 14) | S | 2,4,6-Tribromo... | 0.126 | 0.146 | 0.171 | 0.171 | 0.188 | 0.183 | 0.178 | 0.166 | 13.42 |
| 15) | S | 2-Fluorobiphenyl | 1.566 | 1.530 | 1.699 | 1.658 | 1.822 | 1.777 | 1.715 | 1.681 | 6.31 |
| 16) | | Acenaphthylene | 1.907 | 1.870 | 1.870 | 1.915 | 2.077 | 2.062 | 2.021 | 1.960 | 4.61 |
| 17) | | Acenaphthene | 1.242 | 1.209 | 1.240 | 1.230 | 1.341 | 1.318 | 1.277 | 1.265 | 3.87 |
| 18) | | Fluorene | 1.544 | 1.509 | 1.593 | 1.610 | 1.757 | 1.714 | 1.649 | 1.625 | 5.46 |
| 19) | I | Phenanthrene-d10 | ---------- | ISTD | ---------- | | | | | | |
| 20) | | 4,6-Dinitro-2-... | | 0.074 | 0.066 | 0.086 | 0.100 | 0.110 | 0.116 | 0.092 | 21.86 |
| 21) | | 4-Bromophenyl-... | 0.248 | 0.248 | 0.244 | 0.256 | 0.278 | 0.276 | 0.273 | 0.261 | 5.65 |
| 22) | | Hexachlorobenzene | 0.342 | 0.318 | 0.311 | 0.284 | 0.297 | 0.284 | 0.279 | 0.302 | 7.65 |
| 23) | | Atrazine | 0.223 | 0.229 | 0.222 | 0.228 | 0.241 | 0.241 | 0.244 | 0.232 | 3.84 |
| 24) | | Pentachlorophenol | | 0.139 | 0.124 | 0.137 | 0.154 | 0.162 | 0.171 | 0.148 | 11.86 |
| 25) | | Phenanthrene | 1.253 | 1.225 | 1.186 | 1.238 | 1.324 | 1.328 | 1.327 | 1.269 | 4.54 |
| 26) | | Anthracene | 1.094 | 1.079 | 1.080 | 1.138 | 1.221 | 1.257 | 1.261 | 1.161 | 7.13 |
| 27) | SURR | Fluoranthene-d10 | 1.015 | 1.073 | 1.053 | 1.017 | 1.053 | 1.043 | 1.073 | 1.046 | 2.27 |
| 28) | | Fluoranthene | 1.470 | 1.508 | 1.412 | 1.449 | 1.509 | 1.510 | 1.537 | 1.485 | 2.94 |
| 29) | I | Chrysene-d12 | ---------- | ISTD | ---------- | | | | | | |
| 30) | | Pyrene | 1.850 | 1.740 | 1.962 | 1.849 | 2.016 | 1.892 | 1.854 | 1.881 | 4.74 |
| 31) | S | Terphenyl-d14 | 0.815 | 0.845 | 0.946 | 0.871 | 0.990 | 0.939 | 0.924 | 0.904 | 6.89 |
| 32) | | Benzo(a)anthra... | 1.175 | 1.204 | 1.225 | 1.332 | 1.512 | 1.507 | 1.499 | 1.351 | 11.36 |
| 33) | | Chrysene | 1.783 | 1.722 | 1.695 | 1.617 | 1.711 | 1.633 | 1.616 | 1.683 | 3.73 |
| 34) | | Bis(2-ethylhex... | | 1.104 | 1.024 | 1.000 | 1.006 | 0.942 | 0.960 | 1.006 | 5.65 |
| 35) | I | Perylene-d12 | ---------- | ISTD | ---------- | | | | | | |

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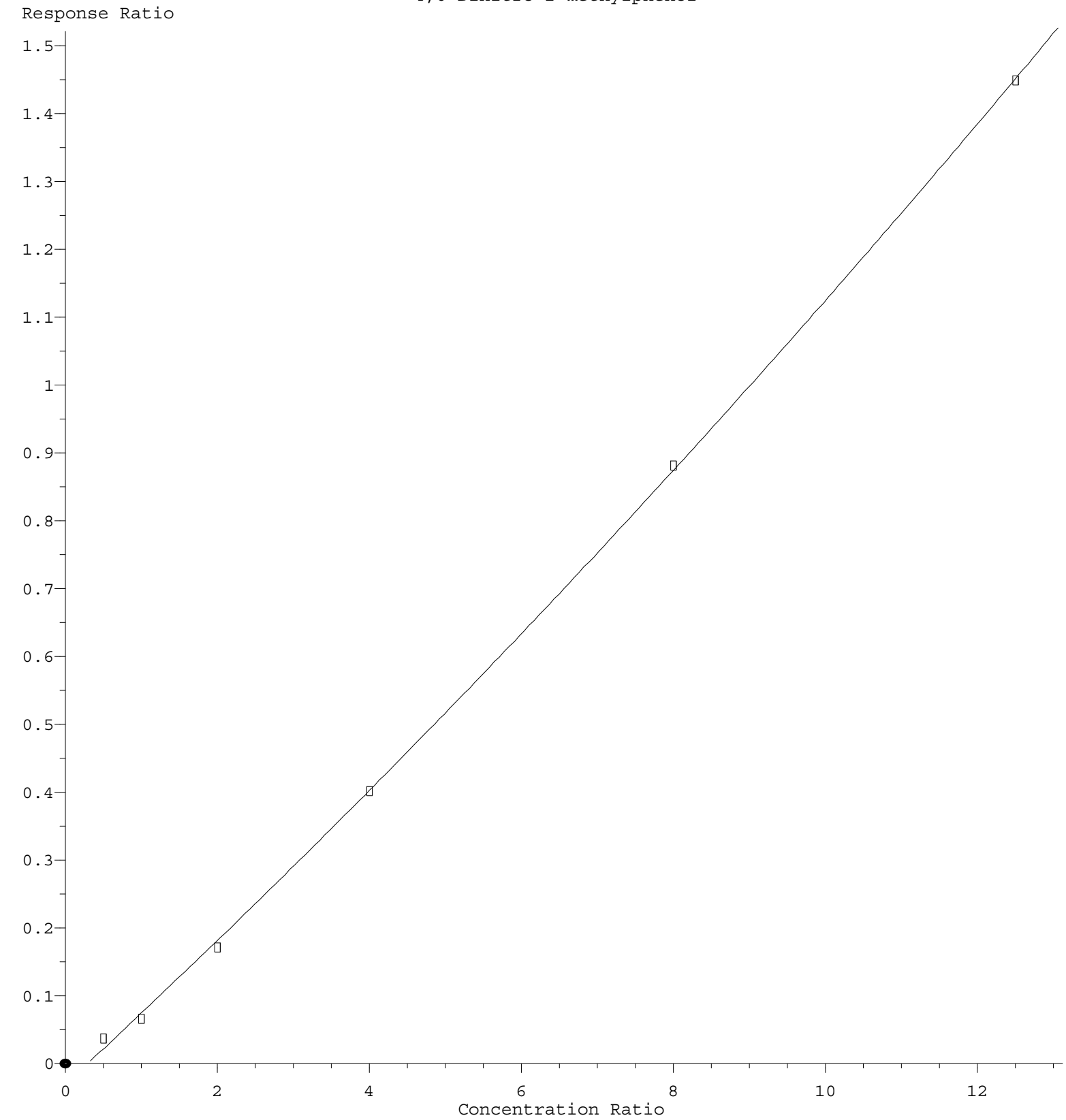
Method File : 8270-SIM-BN061325.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 36) | | Indeno(1,2,3-c... | 1.506 | 1.503 | 1.507 | 1.486 | 1.718 | 1.757 | 1.813 | 1.613 | 8.87 |
| 37) | | Benzo(b)fluora... | 1.309 | 1.288 | 1.376 | 1.456 | 1.618 | 1.576 | 1.620 | 1.463 | 9.81 |
| 38) | | Benzo(k)fluora... | 1.835 | 1.503 | 1.628 | 1.667 | 1.757 | 1.704 | 1.728 | 1.689 | 6.24 |
| 39) | C | Benzo(a)pyrene | 1.271 | 1.208 | 1.234 | 1.298 | 1.407 | 1.382 | 1.413 | 1.316 | 6.42 |
| 40) | | Dibenzo(a,h)an... | 1.106 | 1.102 | 1.049 | 1.118 | 1.362 | 1.425 | 1.427 | 1.227 | 13.76 |
| 41) | | Benzo(g,h,i)pe... | 1.504 | 1.460 | 1.441 | 1.386 | 1.557 | 1.566 | 1.557 | 1.496 | 4.63 |

(#) = Out of Range

4,6-Dinitro-2-methylphenol




R = 1.217e-003 A*A + 1.033e-001 A - 3.013e-002
Coef of Det (r^2) = 0.999707  Curve Fit: Quadratic
Method Name:  Z:\svoasrv\HPCHEM1\BNA N\Methods\8270-SIM-BN061325.M
Calibration Table Last Updated: Fri Jun 13 18:43:34 2025