Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF081525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 18 04:40:19 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF143416.D 5 =BF143417.D 10 =BF143418.D 20 =BF143419.D 40 =BF143420.D 50 =BF143421.D 60 =BF143422.D 80 =BF1434
23.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.557 | 0.560 | 0.568 | 0.564 | 0.536 | 0.551 | 0.542 | 0.554 | 2.10 |
| 3) | | Pyridine | | 1.356 | 1.375 | 1.488 | 1.487 | 1.463 | 1.515 | 1.484 | 1.453 | 4.25 |
| 4) | | n-Nitrosodimet... | | | 0.641 | 0.669 | 0.680 | 0.674 | 0.690 | 0.696 | 0.675 | 2.88 |
| 5) | S | 2-Fluorophenol | | 1.192 | 1.169 | 1.228 | 1.147 | 1.101 | 1.143 | 1.072 | 1.151 | 4.58 |
| 6) | | Aniline | | 2.064 | 1.981 | 2.086 | 1.984 | 1.904 | 1.944 | 1.816 | 1.968 | 4.70 |
| 7) | S | Phenol-d6 | | 1.573 | 1.494 | 1.536 | 1.414 | 1.383 | 1.414 | 1.336 | 1.450 | 5.94 |
| 8) | | 2-Chlorophenol | | 1.322 | 1.290 | 1.348 | 1.252 | 1.210 | 1.258 | 1.212 | 1.270 | 4.14 |
| 9) | | Benzaldehyde | | | 1.043 | 1.069 | 0.734 | 0.637 | 0.640 | 0.504 | 0.771 | 30.13 |
| 10) | C | Phenol | | 1.785 | 1.746 | 1.821 | 1.698 | 1.623 | 1.666 | 1.505 | 1.692 | 6.34 |
| 11) | | bis(2-Chloroet... | | 1.326 | 1.264 | 1.308 | 1.236 | 1.207 | 1.234 | 1.205 | 1.254 | 3.78 |
| 12) | | 1,3-Dichlorobe... | | 1.565 | 1.479 | 1.502 | 1.395 | 1.333 | 1.385 | 1.301 | 1.423 | 6.72 |
| 13) | C | 1,4-Dichlorobe... | | 1.542 | 1.482 | 1.493 | 1.397 | 1.355 | 1.378 | 1.296 | 1.421 | 6.16 |
| 14) | | 1,2-Dichlorobe... | | 1.484 | 1.421 | 1.431 | 1.325 | 1.286 | 1.310 | 1.241 | 1.357 | 6.54 |
| 15) | | Benzyl Alcohol | | | 1.030 | 1.110 | 1.079 | 1.059 | 1.080 | 1.057 | 1.069 | 2.52 |
| 16) | | 2,2'-oxybis(1-... | | 2.414 | 2.259 | 2.291 | 2.096 | 2.014 | 2.066 | 1.869 | 2.144 | 8.70 |
| 17) | | 2-Methylphenol | | 1.104 | 1.036 | 1.080 | 1.025 | 0.989 | 1.035 | 0.985 | 1.036 | 4.22 |
| 18) | | Hexachloroethane | | 0.514 | 0.484 | 0.513 | 0.478 | 0.461 | 0.478 | 0.456 | 0.484 | 4.69 |
| 19) | P | n-Nitroso-di-n... | 0.964 | 0.986 | 0.939 | 0.942 | 0.863 | 0.831 | 0.852 | 0.804 | 0.898 | 7.57 |
| 20) | | 3+4-Methylphenols | | | 1.321 | 1.391 | 1.241 | 1.167 | 1.214 | 1.098 | 1.239 | 8.49 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.501 | 0.459 | 0.462 | 0.419 | 0.395 | 0.406 | 0.369 | 0.430 | 10.66 |
| 23) | S | Nitrobenzene-d5 | | 0.350 | 0.333 | 0.352 | 0.339 | 0.330 | 0.339 | 0.317 | 0.337 | 3.56 |
| 24) | | Nitrobenzene | | 0.359 | 0.347 | 0.372 | 0.357 | 0.345 | 0.354 | 0.332 | 0.352 | 3.63 |
| 25) | | Isophorone | | 0.693 | 0.642 | 0.671 | 0.634 | 0.615 | 0.645 | 0.616 | 0.645 | 4.37 |
| 26) | C | 2-Nitrophenol | | 0.141 | 0.149 | 0.170 | 0.170 | 0.170 | 0.176 | 0.168 | 0.163 | 7.98 |
| 27) | | 2,4-Dimethylph... | | 0.296 | 0.286 | 0.301 | 0.270 | 0.262 | 0.269 | 0.249 | 0.276 | 6.80 |
| 28) | | bis(2-Chloroet... | | 0.441 | 0.404 | 0.413 | 0.390 | 0.374 | 0.392 | 0.362 | 0.397 | 6.60 |
| 29) | C | 2,4-Dichloroph... | | 0.292 | 0.281 | 0.301 | 0.281 | 0.271 | 0.284 | 0.260 | 0.281 | 4.72 |
| 30) | | 1,2,4-Trichlor... | | 0.318 | 0.298 | 0.304 | 0.283 | 0.274 | 0.282 | 0.260 | 0.288 | 6.76 |
| 31) | | Naphthalene | | 1.067 | 0.987 | 1.013 | 0.941 | 0.891 | 0.921 | 0.827 | 0.950 | 8.44 |
| 32) | | Benzoic acid | | | 0.114 | 0.141 | 0.143 | 0.146 | 0.157 | 0.161 | 0.144 | 11.66 |
| 33) | | 4-Chloroaniline | | 0.355 | 0.352 | 0.362 | 0.344 | 0.331 | 0.343 | 0.313 | 0.343 | 4.86 |
| 34) | C | Hexachlorobuta... | | 0.200 | 0.185 | 0.192 | 0.184 | 0.174 | 0.182 | 0.170 | 0.184 | 5.50 |
| 35) | | Caprolactam | | | 0.077 | 0.084 | 0.080 | 0.080 | 0.087 | 0.078 | 0.081 | 4.78 |
| 36) | C | 4-Chloro-3-met... | | 0.308 | 0.290 | 0.301 | 0.288 | 0.282 | 0.294 | 0.266 | 0.290 | 4.74 |
| 37) | | 2-Methylnaphth... | | 0.737 | 0.678 | 0.687 | 0.625 | 0.592 | 0.616 | 0.544 | 0.640 | 10.16 |
| 38) | | 1-Methylnaphth... | | 0.704 | 0.650 | 0.662 | 0.597 | 0.572 | 0.584 | 0.524 | 0.613 | 10.04 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF081525.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.611 | 0.587 | 0.585 | 0.549 | 0.532 | 0.540 | 0.501 | 0.558 | 6.82 |
| 41) | P | Hexachlorocycl... | | 0.089 | 0.140 | 0.179 | 0.192 | 0.190 | 0.213 | 0.167 | 27.09 |
| 42) | S | 2,4,6-Tribromo... | 0.184 | 0.176 | 0.186 | 0.177 | 0.171 | 0.185 | 0.167 | 0.178 | 4.15 |
| 43) | C | 2,4,6-Trichlor... | 0.345 | 0.341 | 0.363 | 0.353 | 0.341 | 0.354 | 0.338 | 0.348 | 2.63 |
| 44) | | 2,4,5-Trichlor... | 0.378 | 0.358 | 0.395 | 0.378 | 0.370 | 0.377 | 0.355 | 0.373 | 3.64 |
| 45) | S | 2-Fluorobiphenyl | 1.445 | 1.340 | 1.291 | 1.132 | 1.074 | 1.082 | 0.960 | 1.189 | 14.52 |
| 46) | | 1,1'-Biphenyl | 1.568 | 1.524 | 1.502 | 1.375 | 1.316 | 1.331 | 1.221 | 1.405 | 9.12 |
| 47) | | 2-Chloronaphth... | 1.225 | 1.174 | 1.179 | 1.083 | 1.049 | 1.068 | 0.987 | 1.109 | 7.65 |
| 48) | | 2-Nitroaniline | 0.313 | 0.317 | 0.343 | 0.336 | 0.332 | 0.348 | 0.323 | 0.330 | 4.01 |
| 49) | | Acenaphthylene | 1.765 | 1.680 | 1.705 | 1.573 | 1.519 | 1.555 | 1.415 | 1.602 | 7.56 |
| 50) | | Dimethylphthalate | 1.371 | 1.293 | 1.305 | 1.210 | 1.179 | 1.239 | 1.132 | 1.247 | 6.57 |
| 51) | | 2,6-Dinitrotol... | 0.223 | 0.225 | 0.258 | 0.252 | 0.250 | 0.263 | 0.250 | 0.246 | 6.38 |
| 52) | C | Acenaphthene | 1.202 | 1.126 | 1.143 | 1.043 | 1.019 | 1.057 | 0.950 | 1.077 | 7.92 |
| 53) | | 3-Nitroaniline | 0.254 | 0.261 | 0.283 | 0.283 | 0.274 | 0.293 | 0.268 | 0.274 | 4.96 |
| 54) | P | 2,4-Dinitrophenol | | 0.059 | 0.087 | 0.096 | 0.102 | 0.117 | 0.118 | 0.097 | 22.78 |
| 55) | | Dibenzofuran | 1.754 | 1.669 | 1.662 | 1.516 | 1.447 | 1.497 | 1.333 | 1.554 | 9.47 |
| 56) | P | 4-Nitrophenol | | 0.131 | 0.170 | 0.179 | 0.178 | 0.196 | 0.179 | 0.172 | 12.64 |
| 57) | | 2,4-Dinitrotol... | 0.293 | 0.308 | 0.347 | 0.334 | 0.328 | 0.363 | 0.322 | 0.328 | 7.15 |
| 58) | | Fluorene | 1.415 | 1.318 | 1.287 | 1.133 | 1.080 | 1.136 | 0.987 | 1.194 | 12.61 |
| 59) | | 2,3,4,6-Tetrac... | 0.260 | 0.265 | 0.293 | 0.297 | 0.283 | 0.307 | 0.270 | 0.282 | 6.22 |
| 60) | | Diethylphthalate | 1.308 | 1.233 | 1.217 | 1.108 | 1.055 | 1.150 | 0.994 | 1.152 | 9.47 |
| 61) | | 4-Chlorophenyl... | 0.669 | 0.633 | 0.622 | 0.574 | 0.551 | 0.573 | 0.508 | 0.590 | 9.25 |
| 62) | | 4-Nitroaniline | 0.237 | 0.255 | 0.271 | 0.261 | 0.247 | 0.283 | 0.240 | 0.256 | 6.48 |
| 63) | | Azobenzene | 1.301 | 1.211 | 1.229 | 1.137 | 1.094 | 1.158 | 1.023 | 1.165 | 7.89 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.073 | 0.096 | 0.107 | 0.107 | 0.117 | 0.118 | 0.103 | 16.32 |
| 66) | c | n-Nitrosodiphe... | 0.707 | 0.667 | 0.676 | 0.645 | 0.624 | 0.623 | 0.609 | 0.650 | 5.40 |
| 67) | | 4-Bromophenyl-... | 0.248 | 0.234 | 0.243 | 0.236 | 0.232 | 0.231 | 0.230 | 0.236 | 2.92 |
| 68) | | Hexachlorobenzene | 0.276 | 0.252 | 0.259 | 0.244 | 0.242 | 0.244 | 0.240 | 0.251 | 5.10 |
| 69) | | Atrazine | 0.188 | 0.189 | 0.197 | 0.190 | 0.185 | 0.201 | 0.181 | 0.190 | 3.67 |
| 70) | C | Pentachlorophenol | | 0.077 | 0.106 | 0.114 | 0.117 | 0.123 | 0.125 | 0.110 | 15.80 |
| 71) | | Phenanthrene | 1.238 | 1.155 | 1.132 | 1.060 | 1.008 | 1.034 | 0.955 | 1.083 | 8.96 |
| 72) | | Anthracene | 1.236 | 1.159 | 1.166 | 1.065 | 1.024 | 1.045 | 0.962 | 1.094 | 8.76 |
| 73) | | Carbazole | 1.044 | 0.995 | 0.976 | 0.895 | 0.849 | 0.910 | 0.807 | 0.925 | 9.10 |
| 74) | | Di-n-butylphth... | 0.965 | 0.959 | 0.970 | 0.892 | 0.851 | 0.975 | 0.837 | 0.921 | 6.49 |
| 75) | C | Fluoranthene | 1.128 | 1.083 | 1.026 | 0.893 | 0.844 | 0.955 | 0.807 | 0.962 | 12.67 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | | 0.637 | 0.749 | 0.567 | 0.492 | 0.541 | | 0.597 | 16.71 |
| 78) | | Pyrene | 1.958 | 1.822 | 1.950 | 1.698 | 1.596 | 1.805 | 1.339 | 1.738 | 12.55 |
| 79) | S | Terphenyl-d14 | 1.415 | 1.276 | 1.329 | 1.147 | 1.057 | 1.212 | 0.899 | 1.191 | 14.61 |
| 80) | | Butylbenzylpht... | 0.352 | 0.372 | 0.446 | 0.459 | 0.450 | 0.487 | 0.448 | 0.431 | 11.36 |
| 81) | | Benzo(a)anthra... | 1.312 | 1.276 | 1.318 | 1.254 | 1.212 | 1.330 | 1.211 | 1.273 | 3.89 |
| 82) | | 3,3'-Dichlorob... | | 0.304 | 0.382 | 0.393 | 0.386 | 0.385 | 0.386 | 0.373 | 9.08 |
| 83) | | Chrysene | 1.240 | 1.186 | 1.240 | 1.194 | 1.156 | 1.138 | 1.087 | 1.177 | 4.71 |
| 84) | | Bis(2-ethylhex... | 0.500 | 0.492 | 0.624 | 0.668 | 0.685 | 0.649 | 0.662 | 0.611 | 13.23 |
| 85) | c | Di-n-octyl pht... | | 0.919 | 1.209 | 1.330 | 1.379 | 1.286 | 1.318 | 1.240 | 13.47 |

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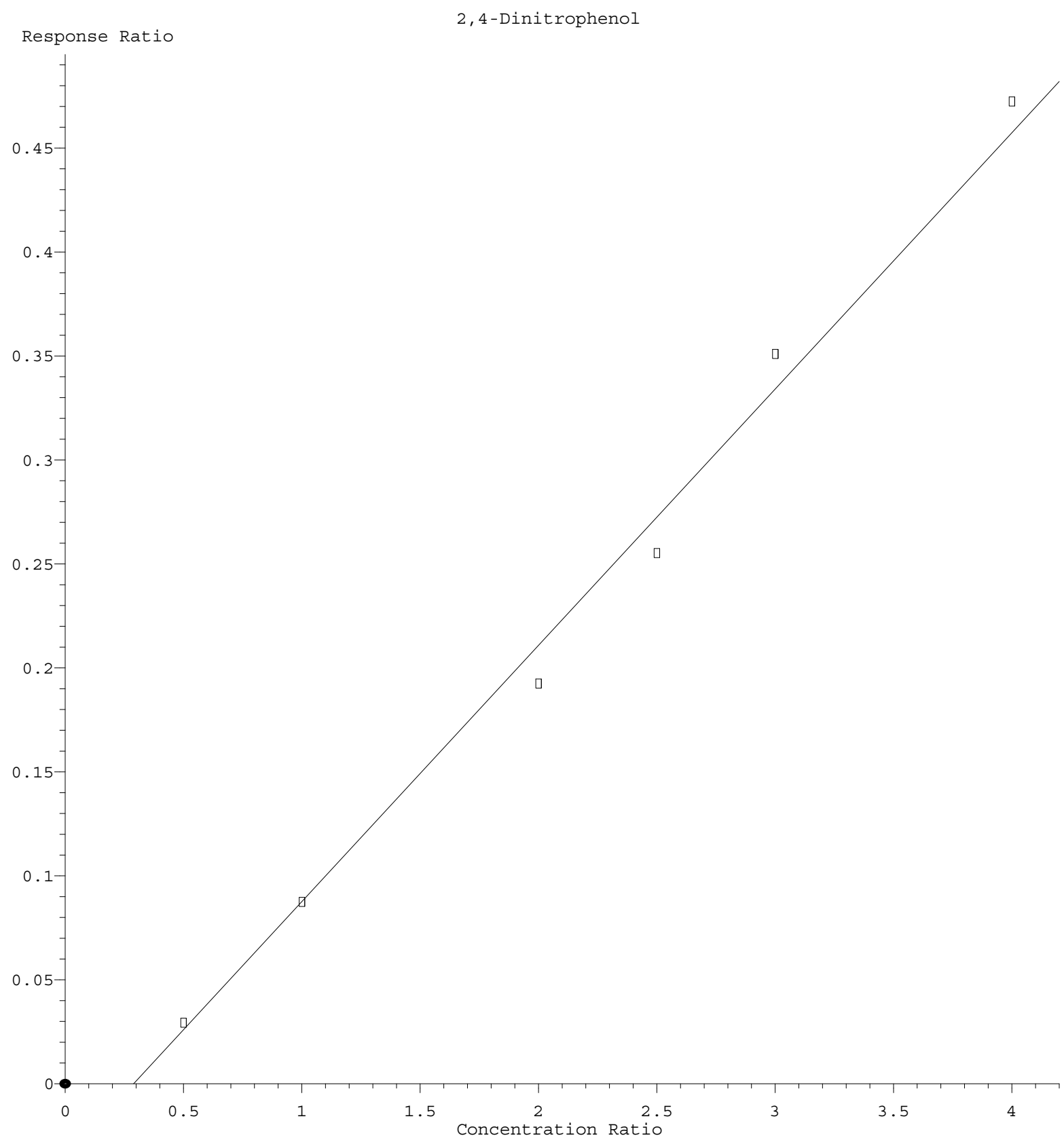
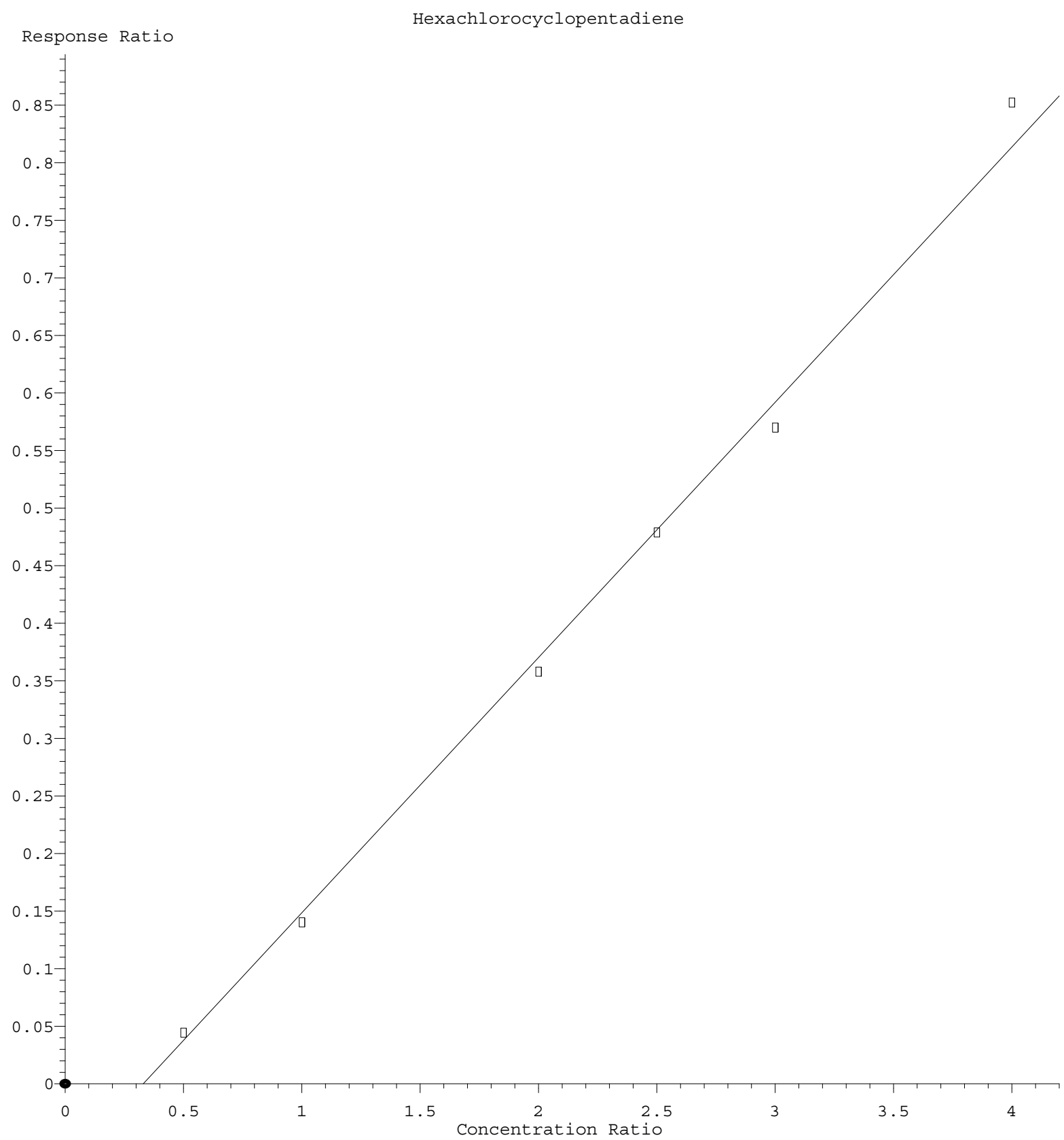
Method File : 8270-BF081525.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.559 | 1.533 | 1.569 | 1.495 | 1.465 | 1.503 | 1.374 | 1.500 | 4.44 |
| 88) | | Benzo(b)fluora... | 1.147 | 1.002 | 1.158 | 1.090 | 1.030 | 1.042 | 1.036 | 1.072 | 5.66 |
| 89) | | Benzo(k)fluora... | 1.084 | 1.161 | 1.022 | 1.052 | 1.022 | 1.081 | 0.978 | 1.057 | 5.60 |
| 90) | C | Benzo(a)pyrene | 1.005 | 1.017 | 1.054 | 1.043 | 1.009 | 1.042 | 0.976 | 1.021 | 2.68 |
| 91) | | Dibenzo(a,h)an... | 1.227 | 1.253 | 1.275 | 1.203 | 1.169 | 1.209 | 1.095 | 1.204 | 4.92 |
| 92) | | Benzo(g,h,i)pe... | 1.236 | 1.219 | 1.257 | 1.207 | 1.179 | 1.214 | 1.111 | 1.203 | 3.94 |

(#) = Out of Range




Response = 1.232e-001 * Amt - 3.554e-002
Coef of Det (r^2) = 0.993895  Curve Fit: wlr(1/a)
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081525.M
Calibration Table Last Updated: Mon Aug 18 04:40:19 2025




Response = 2.217e-001 * Amt - 7.311e-002
Coef of Det (r^2) = 0.996859  Curve Fit: wlr(1/a)
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081525.M
Calibration Table Last Updated: Mon Aug 18 04:40:19 2025