Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF102022.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 21 06:12:36 2022
Response Via : Initial Calibration

Calibration Files
2.5 =BF130726.D 5 =BF130727.D 10 =BF130728.D 20 =BF130729.D 40 =BF130730.D 50 =BF130731.D 60 =BF130732.D 80 =BF1307
33.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.630 | 0.706 | 0.708 | 0.763 | 0.693 | 0.708 | 0.622 | 0.690 | 7.10 |
| 3) | | Pyridine | | 0.909 | 1.307 | 1.426 | 1.572 | 1.292 | 1.499 | 1.308 | 1.330 | 16.14 |
| 4) | | n-Nitrosodimet... | | 0.394 | 0.521 | 0.623 | 0.717 | 0.579 | 0.711 | 0.592 | 0.591 | 18.94 |
| 5) | S | 2-Fluorophenol | 1.239 | 1.007 | 1.090 | 1.344 | 1.248 | 1.043 | 1.351 | 0.957 | 1.160 | 13.36 |
| 6) | | Aniline | | 1.468 | 1.763 | 1.716 | 1.715 | 1.584 | 1.623 | 1.447 | 1.617 | 7.70 |
| 7) | S | Phenol-d6 | 1.686 | 1.248 | 1.598 | 1.425 | 1.411 | 1.297 | 1.356 | 1.206 | 1.403 | 11.88 |
| 8) | | 2-Chlorophenol | | 1.216 | 1.556 | 1.379 | 1.341 | 1.257 | 1.302 | 1.344 | 1.342 | 8.14 |
| 9) | | Benzaldehyde | | 0.832 | 1.078 | 0.891 | 0.777 | 0.735 | 0.721 | 0.700 | 0.819 | 16.14 |
| 10) | C | Phenol | | 1.447 | 1.661 | 1.605 | 1.624 | 1.534 | 1.563 | 1.396 | 1.547 | 6.21 |
| 11) | | bis(2-Chloroet... | | 1.017 | 1.343 | 1.180 | 1.171 | 1.087 | 1.144 | 1.102 | 1.149 | 8.88 |
| 12) | | 1,3-Dichlorobe... | | 1.577 | 1.431 | 1.521 | 1.475 | 1.371 | 1.423 | 1.407 | 1.458 | 4.90 |
| 13) | C | 1,4-Dichlorobe... | | 1.626 | 1.504 | 1.544 | 1.502 | 1.415 | 1.462 | 1.443 | 1.500 | 4.69 |
| 14) | | 1,2-Dichlorobe... | | 1.478 | 1.410 | 1.624 | 1.392 | 1.312 | 1.344 | 1.358 | 1.417 | 7.47 |
| 15) | | Benzyl Alcohol | | 0.872 | 0.912 | 1.201 | 1.069 | 1.024 | 1.048 | 1.079 | 1.029 | 10.67 |
| 16) | | 2,2'-oxybis(1-... | | 1.616 | 1.404 | 1.830 | 1.408 | 1.335 | 1.351 | 1.374 | 1.474 | 12.39 |
| 17) | | 2-Methylphenol | | 1.144 | 1.062 | 1.332 | 1.059 | 1.019 | 1.043 | 1.068 | 1.104 | 9.75 |
| 18) | | Hexachloroethane | | 0.492 | 0.552 | 0.699 | 0.539 | 0.537 | 0.541 | 0.560 | 0.560 | 11.63 |
| 19) | P | n-Nitroso-di-n... | 1.156 | 0.940 | 0.898 | 1.108 | 0.901 | 0.861 | 0.868 | 0.854 | 0.948 | 12.37 |
| 20) | | 3+4-Methylphenols | | 1.488 | 1.413 | 1.747 | 1.420 | 1.367 | 1.361 | 1.333 | 1.447 | 9.78 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.573 | 0.462 | 0.499 | 0.480 | 0.397 | 0.455 | 0.547 | 0.488 | 12.13 |
| 23) | S | Nitrobenzene-d5 | 0.393 | 0.434 | 0.407 | 0.342 | 0.368 | 0.312 | 0.349 | 0.410 | 0.377 | 10.94 |
| 24) | | Nitrobenzene | | 0.436 | 0.406 | 0.376 | 0.366 | 0.322 | 0.352 | 0.426 | 0.384 | 10.76 |
| 25) | | Isophorone | | 0.719 | 0.676 | 0.596 | 0.614 | 0.569 | 0.588 | 0.587 | 0.621 | 8.88 |
| 26) | C | 2-Nitrophenol | | 0.212 | 0.193 | 0.189 | 0.192 | 0.183 | 0.189 | 0.187 | 0.192 | 4.84 |
| 27) | | 2,4-Dimethylph... | | 0.299 | 0.268 | 0.267 | 0.263 | 0.221 | 0.256 | 0.247 | 0.260 | 9.07 |
| 28) | | bis(2-Chloroet... | | 0.419 | 0.388 | 0.349 | 0.351 | 0.340 | 0.341 | 0.331 | 0.360 | 8.87 |
| 29) | C | 2,4-Dichloroph... | | 0.269 | 0.270 | 0.287 | 0.304 | 0.300 | 0.294 | 0.284 | 0.287 | 4.70 |
| 30) | | 1,2,4-Trichlor... | | 0.309 | 0.306 | 0.279 | 0.318 | 0.283 | 0.311 | 0.302 | 0.301 | 4.91 |
| 31) | | Naphthalene | | 1.068 | 1.044 | 1.060 | 1.051 | 0.977 | 1.033 | 0.987 | 1.031 | 3.45 |
| 32) | | Benzoic acid | | | 0.070 | 0.110 | 0.150 | 0.157 | 0.153 | 0.158 | 0.133 | 26.82 |
| 33) | | 4-Chloroaniline | | 0.398 | 0.437 | 0.425 | 0.418 | 0.317 | 0.405 | 0.377 | 0.397 | 10.12 |
| 34) | C | Hexachlorobuta... | | 0.199 | 0.215 | 0.189 | 0.199 | 0.152 | 0.197 | 0.190 | 0.192 | 10.18 |
| 35) | | Caprolactam | | 0.084 | 0.088 | 0.089 | 0.093 | 0.071 | 0.111 | 0.091 | 0.090 | 13.12 |
| 36) | C | 4-Chloro-3-met... | | 0.302 | 0.344 | 0.250 | 0.320 | 0.249 | 0.377 | 0.330 | 0.310 | 15.31 |
| 37) | | 2-Methylnaphth... | | 0.692 | 0.705 | 0.559 | 0.692 | 0.535 | 0.793 | 0.753 | 0.676 | 14.12 |
| 38) | | 1-Methylnaphth... | | 0.674 | 0.758 | 0.542 | 0.676 | 0.522 | 0.773 | 0.745 | 0.670 | 15.23 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | | 0.431 | 0.657 | 0.562 | 0.553 | 0.451 | 0.533 | 0.527 | 0.531 | 14.13 |
| 41) | P | Hexachlorocycl... | | | 0.001 | 0.013 | 0.049 | 0.048 | 0.069 | 0.087 | 0.044# | 73.46 |
| 42) | S | 2,4,6-Tribromo... | 0.170 | 0.190 | 0.178 | 0.206 | 0.214 | 0.169 | 0.200 | 0.195 | 0.190 | 8.81 |
| 43) | C | 2,4,6-Trichlor... | | 0.253 | 0.401 | 0.351 | 0.363 | 0.291 | 0.329 | 0.350 | 0.334 | 14.64 |
| 44) | | 2,4,5-Trichlor... | | 0.276 | 0.426 | 0.364 | 0.404 | 0.321 | 0.377 | 0.374 | 0.363 | 13.92 |
| 45) | S | 2-Fluorobiphenyl | 1.435 | 1.142 | 1.684 | 1.367 | 1.346 | 1.075 | 1.260 | 1.190 | 1.312 | 14.69 |
| 46) | | 1,1'-Biphenyl | | 1.221 | 1.598 | 1.501 | 1.457 | 1.201 | 1.427 | 1.361 | 1.395 | 10.42 |
| 47) | | 2-Chloronaphth... | | 0.983 | 1.424 | 1.244 | 1.213 | 0.988 | 1.164 | 1.104 | 1.160 | 13.34 |
| 48) | | 2-Nitroaniline | | 0.290 | 0.438 | 0.369 | 0.369 | 0.314 | 0.383 | 0.329 | 0.356 | 13.83 |
| 49) | | Acenaphthylene | | 1.742 | 1.765 | 1.847 | 1.812 | 1.637 | 1.689 | 1.473 | 1.709 | 7.37 |
| 50) | | Dimethylphthalate | | 1.204 | 1.380 | 1.443 | 1.430 | 1.405 | 1.388 | 1.168 | 1.345 | 8.29 |
| 51) | | 2,6-Dinitrotol... | | 0.296 | 0.298 | 0.320 | 0.316 | 0.317 | 0.304 | 0.257 | 0.301 | 7.17 |
| 52) | C | Acenaphthene | | 1.140 | 1.073 | 1.113 | 1.103 | 1.063 | 0.924 | 1.021 | 1.062 | 6.81 |
| 53) | | 3-Nitroaniline | | 0.332 | 0.328 | 0.351 | 0.350 | 0.360 | 0.355 | 0.326 | 0.343 | 4.05 |
| 54) | P | 2,4-Dinitrophenol | | | 0.036 | 0.075 | 0.106 | 0.118 | 0.107 | 0.126 | 0.095 | 35.64 |
| 55) | | Dibenzofuran | | 1.726 | 1.663 | 1.735 | 1.692 | 1.635 | 1.464 | 1.533 | 1.635 | 6.22 |
| 56) | P | 4-Nitrophenol | | 0.008 | 0.029 | 0.046 | 0.087 | 0.086 | 0.084 | 0.113 | 0.065 | 57.74 |
| 57) | | 2,4-Dinitrotol... | | 0.396 | 0.399 | 0.430 | 0.428 | 0.419 | 0.373 | 0.394 | 0.406 | 5.12 |
| 58) | | Fluorene | | 1.536 | 1.366 | 1.418 | 1.394 | 1.167 | 1.368 | 1.272 | 1.360 | 8.53 |
| 59) | | 2,3,4,6-Tetrac... | | 0.239 | 0.285 | 0.305 | 0.329 | 0.278 | 0.314 | 0.271 | 0.289 | 10.45 |
| 60) | | Diethylphthalate | | 1.511 | 1.369 | 1.439 | 1.381 | 1.311 | 1.364 | 1.341 | 1.388 | 4.83 |
| 61) | | 4-Chlorophenyl... | | 0.668 | 0.619 | 0.640 | 0.636 | 0.530 | 0.604 | 0.570 | 0.610 | 7.66 |
| 62) | | 4-Nitroaniline | | 0.341 | 0.323 | 0.353 | 0.333 | 0.324 | 0.338 | 0.268 | 0.326 | 8.50 |
| 63) | | Azobenzene | | 1.215 | 1.252 | 1.305 | 1.276 | 1.018 | 1.269 | 1.197 | 1.219 | 7.87 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.101 | 0.087 | 0.120 | 0.131 | 0.123 | 0.139 | 0.136 | 0.120 | 15.92 |
| 66) | c | n-Nitrosodiphe... | | 0.861 | 0.636 | 0.671 | 0.675 | 0.584 | 0.703 | 0.696 | 0.689 | 12.42 |
| 67) | | 4-Bromophenyl-... | | 0.282 | 0.219 | 0.235 | 0.244 | 0.220 | 0.231 | 0.253 | 0.241 | 9.08 |
| 68) | | Hexachlorobenzene | | 0.310 | 0.256 | 0.266 | 0.273 | 0.247 | 0.269 | 0.305 | 0.275 | 8.63 |
| 69) | | Atrazine | | 0.250 | 0.190 | 0.196 | 0.198 | 0.166 | 0.171 | 0.165 | 0.191 | 15.54 |
| 70) | C | Pentachlorophenol | | | 0.020 | 0.037 | 0.056 | 0.049 | 0.062 | 0.066 | 0.049 | 35.56# |
| 71) | | Phenanthrene | | 1.156 | 1.100 | 1.156 | 1.134 | 0.976 | 1.094 | 1.061 | 1.097 | 5.78 |
| 72) | | Anthracene | | 1.263 | 1.066 | 1.118 | 1.110 | 0.988 | 1.087 | 1.028 | 1.094 | 7.98 |
| 73) | | Carbazole | | 1.192 | 0.976 | 1.030 | 1.002 | 0.810 | 0.990 | 1.073 | 1.010 | 11.36 |
| 74) | | Di-n-butylphth... | | 1.421 | 1.149 | 1.241 | 1.217 | 1.087 | 1.297 | 1.288 | 1.243 | 8.72 |
| 75) | C | Fluoranthene | | 1.155 | 1.151 | 1.200 | 1.155 | 0.825 | 1.290 | 0.986 | 1.109 | 13.94 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | | |
| 77) | | Benzidine | | | 0.504 | 0.397 | 0.334 | 0.301 | 0.315 | 0.269 | 0.353 | 24.10 |
| 78) | | Pyrene | | 1.440 | 1.492 | 1.636 | 1.862 | 1.778 | 1.745 | 1.799 | 1.679 | 9.60 |
| 79) | S | Terphenyl-d14 | 1.138 | 1.055 | 1.072 | 1.150 | 1.318 | 1.248 | 1.238 | 1.275 | 1.187 | 8.19 |
| 80) | | Butylbenzylpht... | | 0.668 | 0.587 | 0.653 | 0.712 | 0.685 | 0.696 | 0.663 | 0.666 | 6.06 |
| 81) | | Benzo(a)anthra... | | 1.310 | 1.296 | 1.342 | 1.362 | 1.312 | 1.418 | 1.314 | 1.336 | 3.16 |
| 82) | | 3,3'-Dichlorob... | | 0.379 | 0.383 | 0.405 | 0.387 | 0.370 | 0.433 | 0.360 | 0.388 | 6.24 |
| 83) | | Chrysene | | 1.430 | 1.232 | 1.275 | 1.296 | 1.245 | 1.337 | 1.250 | 1.295 | 5.36 |
| 84) | | Bis(2-ethylhex... | | 0.699 | 0.733 | 0.802 | 0.808 | 0.791 | 0.925 | 0.766 | 0.789 | 9.08 |
| 85) | c | Di-n-octyl pht... | | 1.027 | 0.937 | 1.044 | 1.028 | 1.021 | 1.141 | 1.084 | 1.040 | 6.03 |

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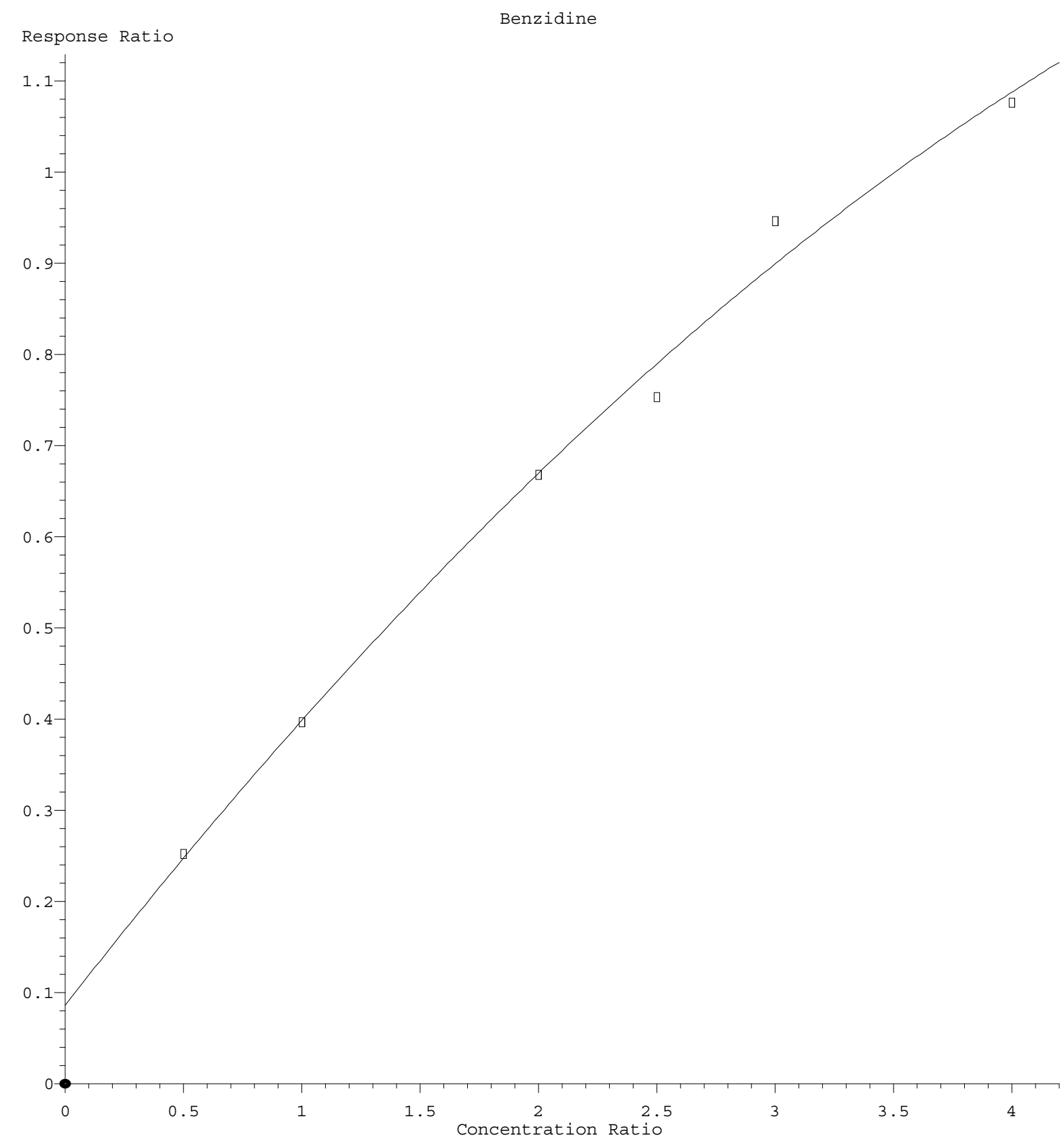
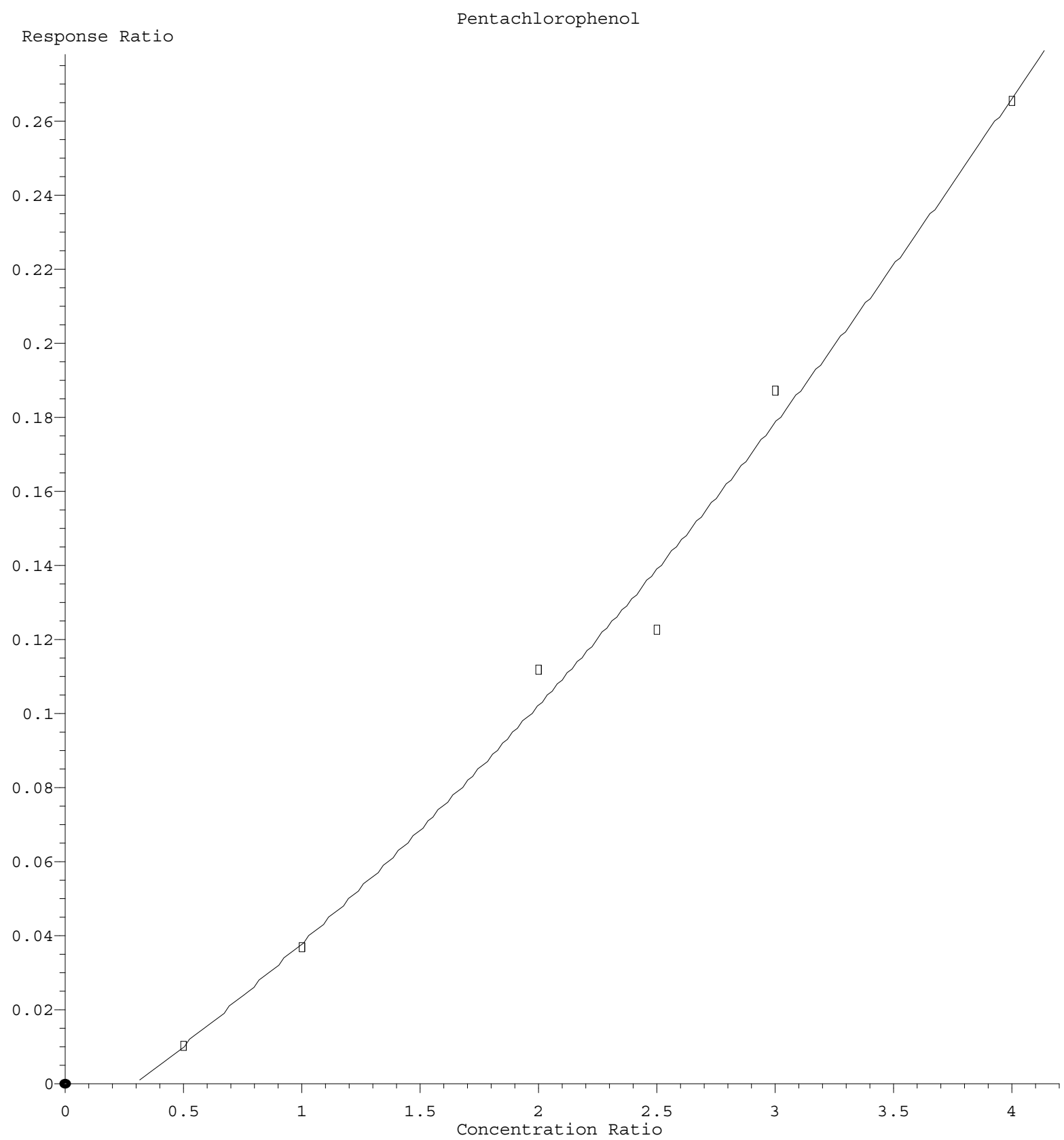
Method File : 8270-BF102022.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.091 | 1.148 | 1.453 | 1.622 | 1.541 | 1.602 | 1.583 | 1.434 | 15.52 |
| 88) | | Benzo(b)fluora... | 1.603 | 1.280 | 1.379 | 1.291 | 1.274 | 1.278 | 1.216 | 1.332 | 9.69 |
| 89) | | Benzo(k)fluora... | 1.508 | 1.352 | 1.344 | 1.299 | 1.270 | 1.310 | 1.281 | 1.338 | 6.06 |
| 90) | C | Benzo(a)pyrene | 1.119 | 1.012 | 1.078 | 1.083 | 1.058 | 1.079 | 1.058 | 1.070 | 3.07 |
| 91) | | Dibenzo(a,h)an... | 0.918 | 0.951 | 1.179 | 1.341 | 1.278 | 1.317 | 1.314 | 1.185 | 15.14 |
| 92) | | Benzo(g,h,i)pe... | 0.880 | 0.932 | 1.219 | 1.365 | 1.263 | 1.344 | 1.320 | 1.189 | 16.83 |

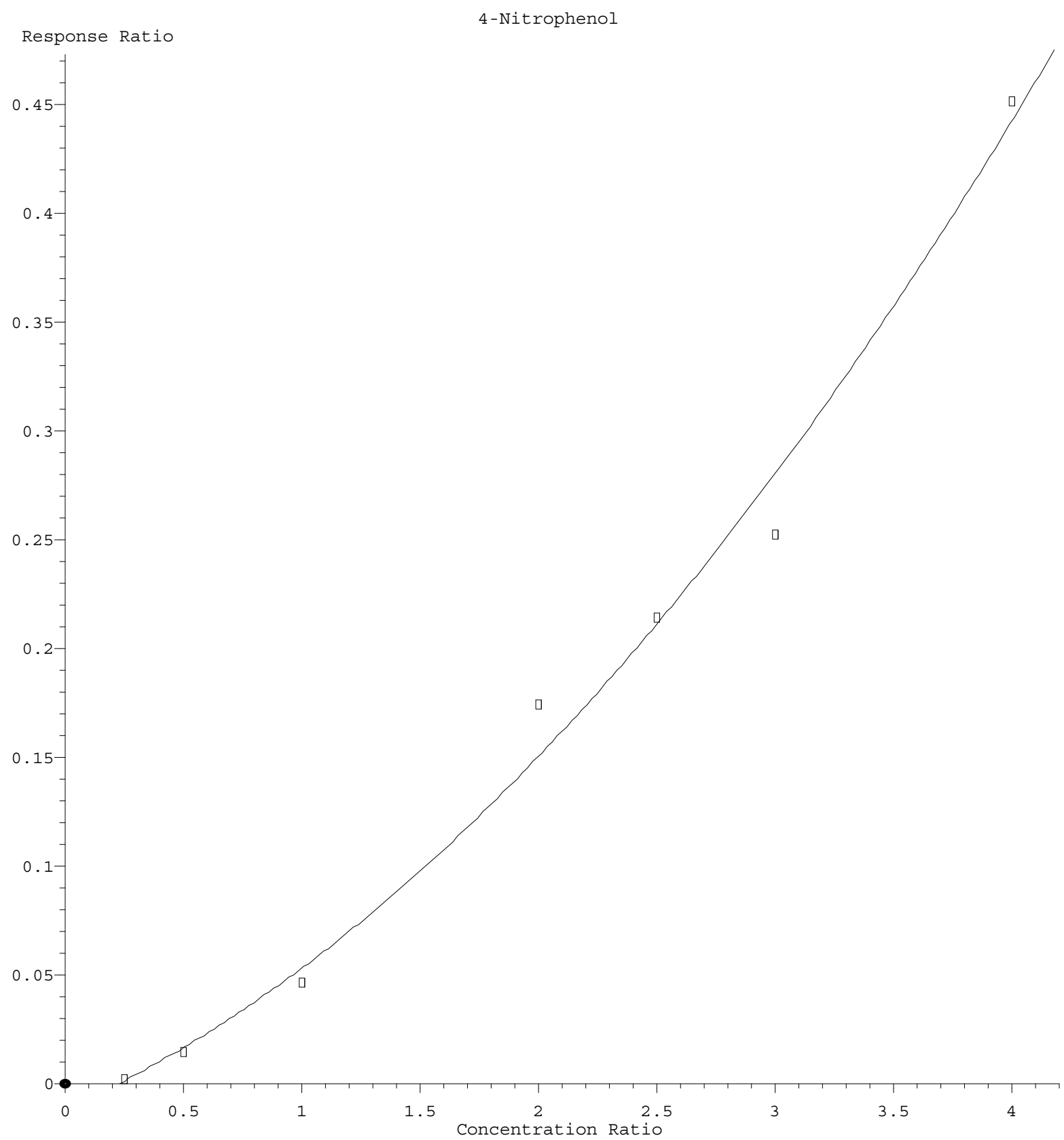
(#) = Out of Range



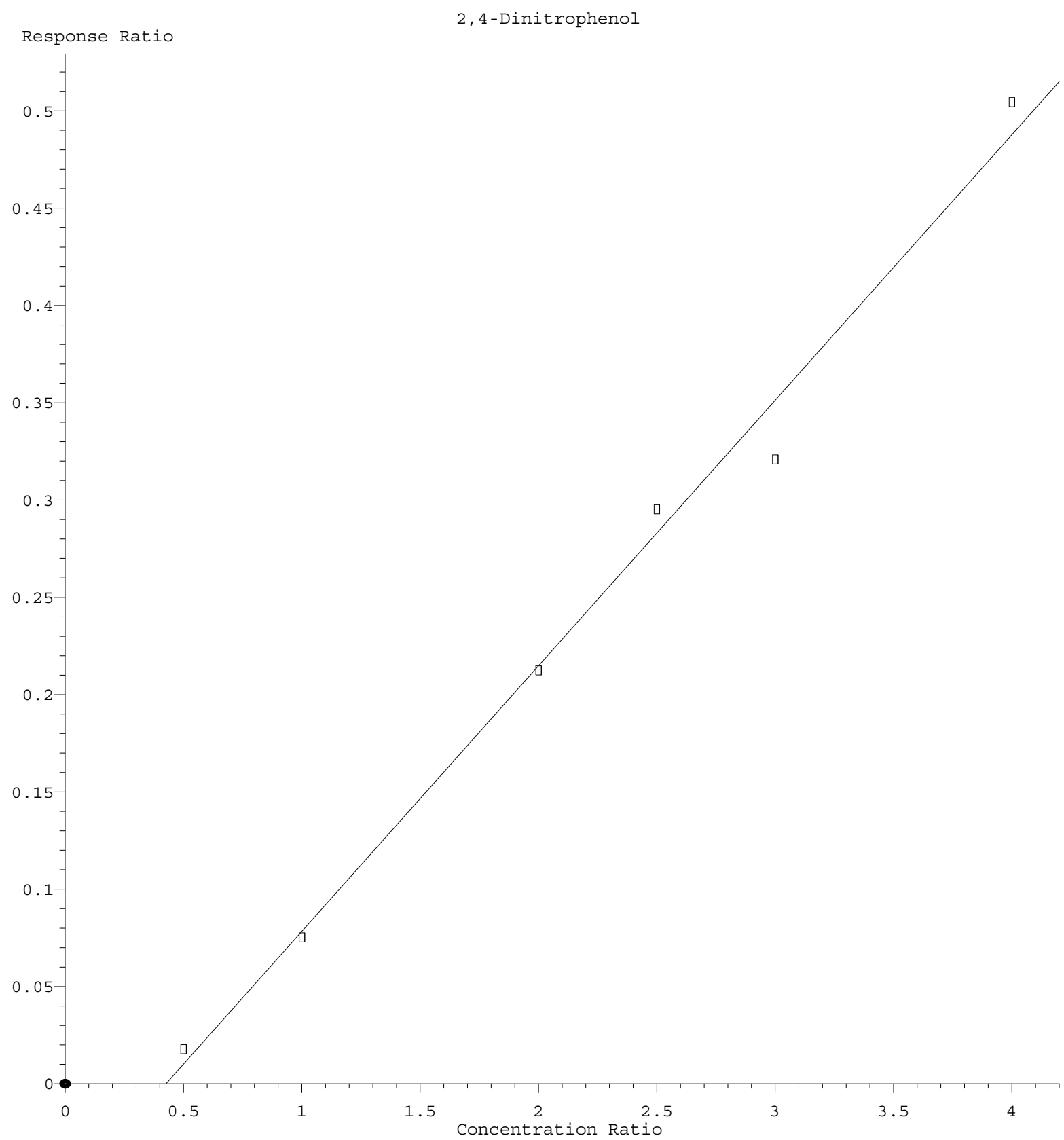

R = -2.069e-002 A*A + 3.332e-001 A + 8.588e-002
Coef of Det (r^2) = 0.992578  Curve Fit: Quadratic
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102022.M
Calibration Table Last Updated: Fri Oct 21 06:12:36 2022



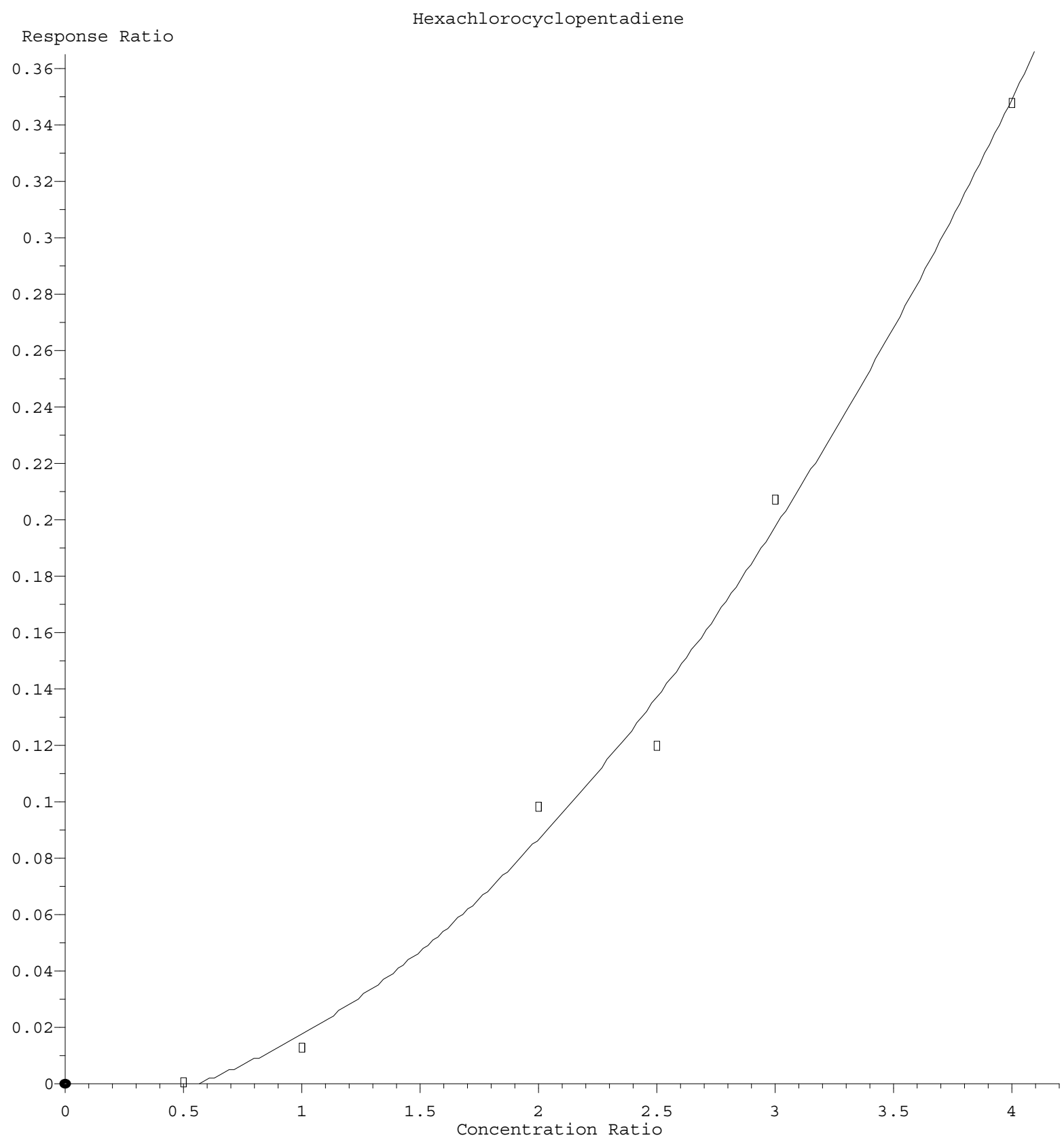

R = 5.900e-003 A*A + 4.661e-002 A - 1.453e-002
Coef of Det (r^2) = 0.990279  Curve Fit: Quadratic
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102022.M
Calibration Table Last Updated: Fri Oct 21 06:12:36 2022



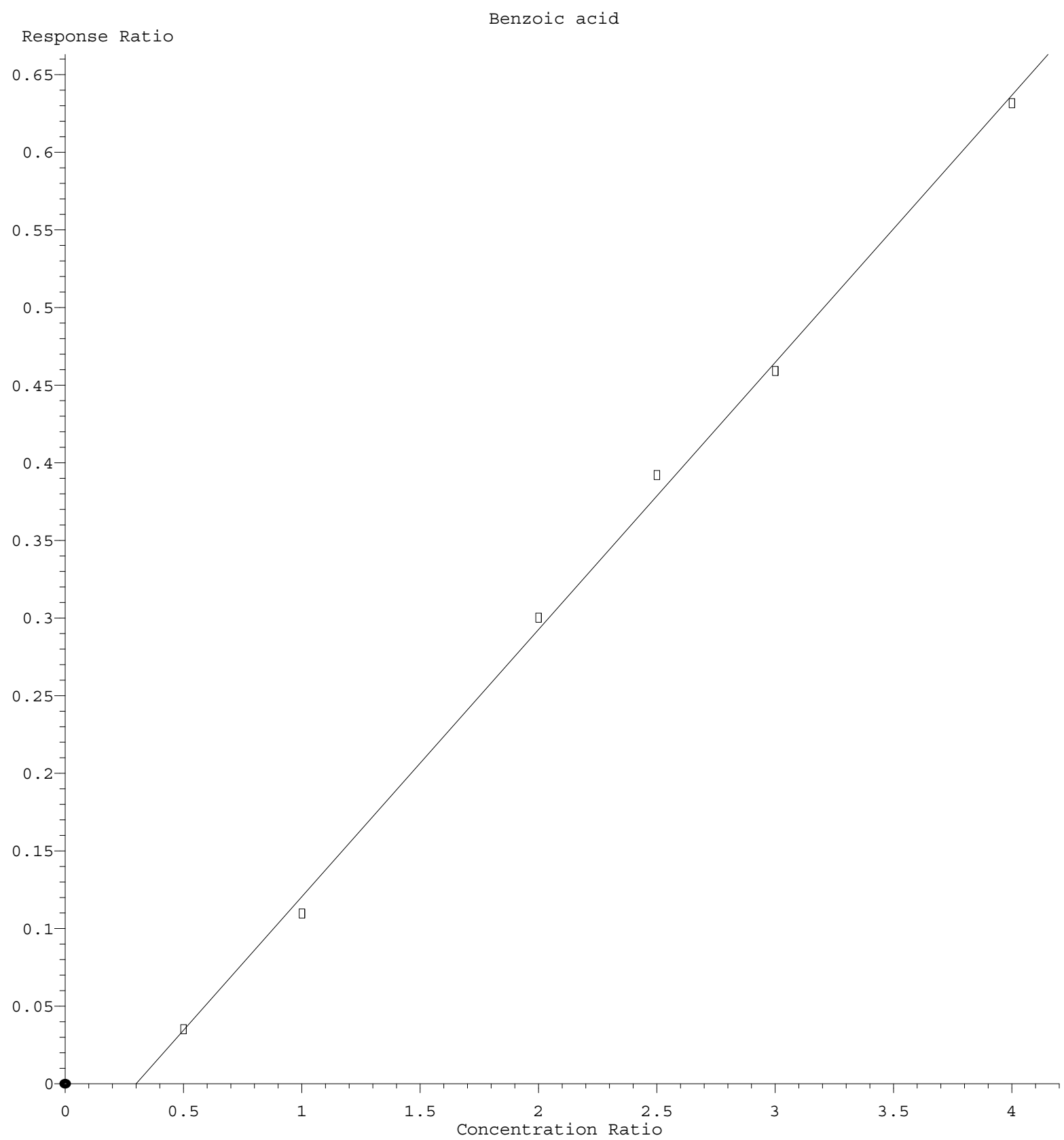

R = 1.621e-002 A*A + 4.872e-002 A - 1.182e-002
Coef of Det (r^2) = 0.990465  Curve Fit: Quadratic
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102022.M
Calibration Table Last Updated: Fri Oct 21 06:12:36 2022




Response = 1.366e-001 * Amt - 5.819e-002
Coef of Det (r^2) = 0.990891  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102022.M
Calibration Table Last Updated: Fri Oct 21 06:12:36 2022




R = 2.062e-002 A*A + 7.446e-003 A - 1.051e-002
Coef of Det (r^2) = 0.993569  Curve Fit: Quadratic
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102022.M
Calibration Table Last Updated: Fri Oct 21 06:12:36 2022




Response = 1.722e-001 * Amt - 5.172e-002
Coef of Det (r^2) = 0.998328  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102022.M
Calibration Table Last Updated: Fri Oct 21 06:12:36 2022