Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF032624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Mar 27 01:52:09 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF137687.D 5 =BF137688.D 10 =BF137689.D 20 =BF137690.D 40 =BF137691.D 50 =BF137692.D 60 =BF137693.D 80 =BF1376
94.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.620 | 0.616 | 0.640 | 0.566 | 0.575 | 0.586 | 0.564 | 0.595 | 5.06 |
| 3) | | Pyridine | | 1.630 | 1.679 | 1.749 | 1.558 | 1.589 | 1.620 | 1.583 | 1.630 | 4.02 |
| 4) | | n-Nitrosodimet... | | 0.757 | 0.742 | 0.782 | 0.703 | 0.719 | 0.725 | 0.698 | 0.732 | 4.11 |
| 5) | S | 2-Fluorophenol | | 1.406 | 1.407 | 1.439 | 1.216 | 1.214 | 1.188 | 1.125 | 1.285 | 9.95 |
| 6) | | Aniline | | 2.167 | 2.175 | 2.305 | 2.027 | 2.032 | 2.043 | 1.923 | 2.096 | 6.06 |
| 7) | S | Phenol-d6 | | 1.743 | 1.721 | 1.782 | 1.527 | 1.503 | 1.498 | 1.376 | 1.593 | 9.69 |
| 8) | | 2-Chlorophenol | | 1.382 | 1.400 | 1.472 | 1.238 | 1.242 | 1.210 | 1.128 | 1.296 | 9.51 |
| 9) | | Benzaldehyde | | | 1.011 | 1.014 | 0.791 | 0.754 | 0.728 | | 0.860 | 16.43 |
| 10) | C | Phenol | | 1.906 | 1.917 | 1.993 | 1.688 | 1.688 | 1.671 | 1.536 | 1.771 | 9.45 |
| 11) | | bis(2-Chloroet... | | 1.390 | 1.380 | 1.429 | 1.221 | 1.229 | 1.226 | 1.143 | 1.288 | 8.47 |
| 12) | | 1,3-Dichlorobe... | | 1.534 | 1.570 | 1.623 | 1.371 | 1.353 | 1.352 | 1.262 | 1.438 | 9.47 |
| 13) | C | 1,4-Dichlorobe... | | 1.565 | 1.571 | 1.608 | 1.375 | 1.367 | 1.358 | 1.254 | 1.442 | 9.47 |
| 14) | | 1,2-Dichlorobe... | | 1.513 | 1.481 | 1.534 | 1.277 | 1.253 | 1.214 | 1.097 | 1.338 | 12.72 |
| 15) | | Benzyl Alcohol | | 1.253 | 1.280 | 1.330 | 1.133 | 1.108 | 1.082 | 0.958 | 1.163 | 11.23 |
| 16) | | 2,2'-oxybis(1-... | | 2.173 | 2.182 | 2.245 | 1.960 | 1.955 | 1.951 | 1.829 | 2.042 | 7.63 |
| 17) | | 2-Methylphenol | | 1.243 | 1.267 | 1.320 | 1.158 | 1.173 | 1.174 | 1.122 | 1.208 | 5.80 |
| 18) | | Hexachloroethane | | 0.464 | 0.474 | 0.516 | 0.444 | 0.454 | 0.455 | 0.428 | 0.462 | 6.00 |
| 19) | P | n-Nitroso-di-n... | 1.114 | 1.109 | 1.117 | 1.116 | 0.958 | 0.951 | 0.960 | 0.907 | 1.029 | 8.98 |
| 20) | | 3+4-Methylphenols | | 1.609 | 1.628 | 1.670 | 1.351 | 1.303 | 1.234 | | 1.466 | 13.01 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | | |
| 22) | | Acetophenone | | 0.531 | 0.522 | 0.523 | 0.430 | 0.431 | 0.414 | 0.382 | 0.462 | 13.33 |
| 23) | S | Nitrobenzene-d5 | | | 0.240 | 0.303 | 0.303 | 0.322 | 0.333 | 0.319 | 0.303 | 10.88 |
| 24) | | Nitrobenzene | | 0.241 | 0.277 | 0.341 | 0.334 | 0.344 | 0.354 | 0.331 | 0.317 | 13.27 |
| 25) | | Isophorone | | 0.702 | 0.711 | 0.724 | 0.656 | 0.676 | 0.680 | 0.656 | 0.686 | 3.90 |
| 26) | C | 2-Nitrophenol | | 0.057 | 0.071 | 0.100 | 0.124 | 0.143 | 0.156 | 0.156 | 0.115 | 34.96# |
| 27) | | 2,4-Dimethylph... | | 0.327 | 0.322 | 0.337 | 0.308 | 0.305 | 0.302 | 0.298 | 0.314 | 4.62 |
| 28) | | bis(2-Chloroet... | | 0.435 | 0.433 | 0.446 | 0.393 | 0.397 | 0.392 | 0.370 | 0.409 | 6.89 |
| 29) | C | 2,4-Dichloroph... | | 0.285 | 0.296 | 0.316 | 0.286 | 0.294 | 0.292 | 0.274 | 0.292 | 4.45 |
| 30) | | 1,2,4-Trichlor... | | 0.312 | 0.316 | 0.328 | 0.289 | 0.293 | 0.292 | 0.270 | 0.300 | 6.58 |
| 31) | | Naphthalene | | 1.120 | 1.103 | 1.107 | 0.934 | 0.943 | 0.912 | 0.821 | 0.991 | 11.89 |
| 32) | | Benzoic acid | | | 0.106 | 0.140 | 0.173 | 0.203 | 0.216 | 0.220 | 0.176 | 25.89 |
| 33) | | 4-Chloroaniline | | 0.457 | 0.459 | 0.471 | 0.410 | 0.413 | 0.402 | 0.382 | 0.428 | 7.93 |
| 34) | C | Hexachlorobuta... | | 0.187 | 0.190 | 0.194 | 0.169 | 0.173 | 0.170 | 0.159 | 0.177 | 7.33 |
| 35) | | Caprolactam | | 0.090 | 0.092 | 0.100 | 0.094 | 0.099 | 0.097 | 0.096 | 0.095 | 3.60 |
| 36) | C | 4-Chloro-3-met... | | 0.300 | 0.317 | 0.332 | 0.301 | 0.305 | 0.304 | 0.287 | 0.307 | 4.58 |
| 37) | | 2-Methylnaphth... | | 0.771 | 0.766 | 0.763 | 0.648 | 0.642 | 0.613 | 0.561 | 0.681 | 12.57 |
| 38) | | 1-Methylnaphth... | | 0.727 | 0.703 | 0.722 | 0.605 | 0.606 | 0.581 | 0.525 | 0.638 | 12.32 |

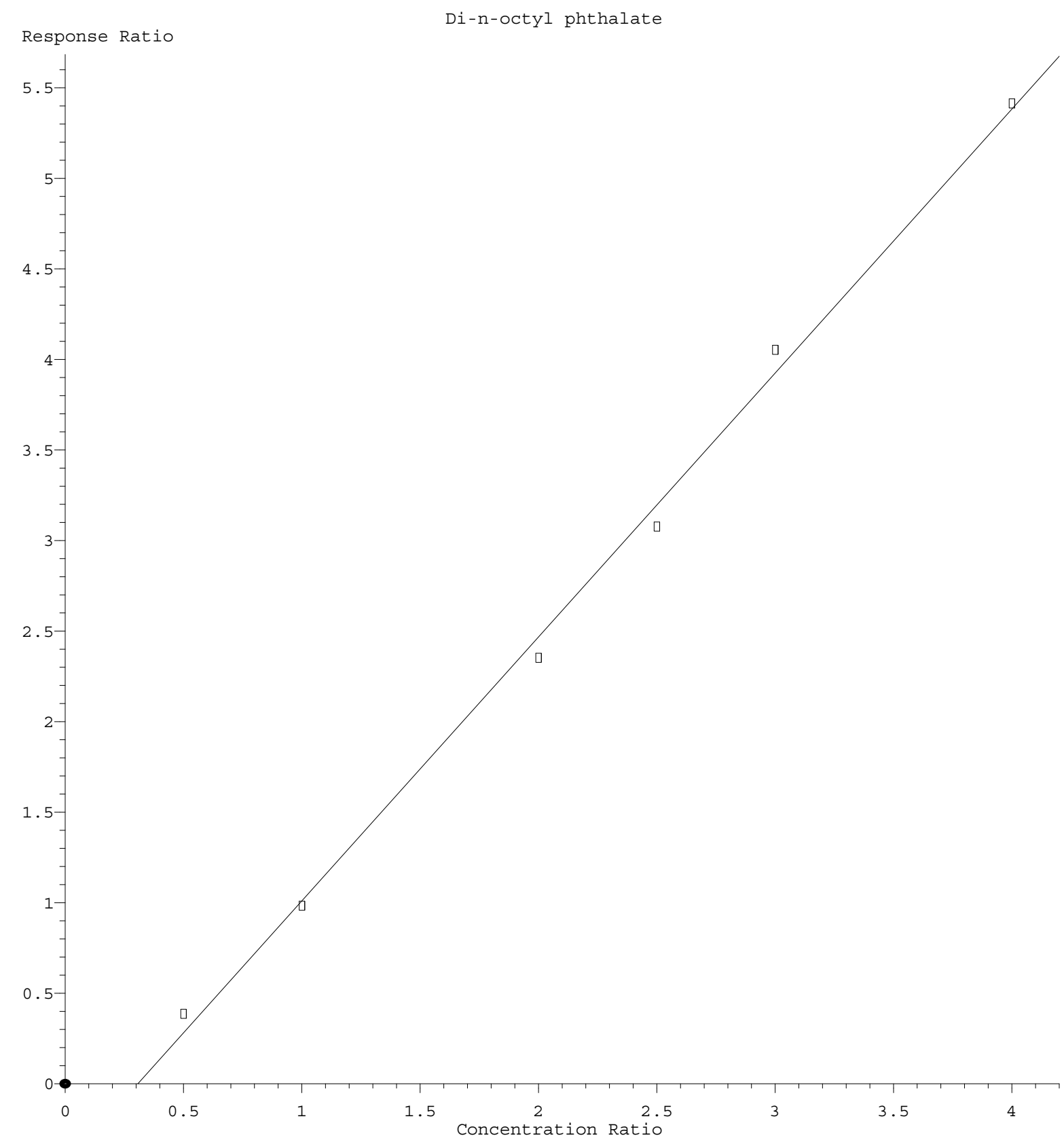
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF032624.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.589 | 0.585 | 0.588 | 0.494 | 0.493 | 0.478 | 0.441 | 0.524 | 11.77 |
| 41) | P | Hexachlorocycl... | 0.194 | 0.231 | 0.270 | 0.263 | 0.276 | 0.287 | 0.274 | 0.257 | 12.75 |
| 42) | S | 2,4,6-Tribromo... | 0.184 | 0.200 | 0.218 | 0.183 | 0.180 | 0.183 | 0.171 | 0.188 | 8.25 |
| 43) | C | 2,4,6-Trichlor... | 0.338 | 0.370 | 0.392 | 0.357 | 0.363 | 0.360 | 0.342 | 0.360 | 4.96 |
| 44) | | 2,4,5-Trichlor... | 0.373 | 0.423 | 0.446 | 0.399 | 0.410 | 0.409 | 0.390 | 0.407 | 5.78 |
| 45) | S | 2-Fluorobiphenyl | | 1.468 | 1.374 | 1.057 | 1.034 | 0.996 | | 1.186 | 18.40 |
| 46) | | 1,1'-Biphenyl | 1.625 | 1.615 | 1.609 | 1.322 | 1.304 | 1.260 | 1.133 | 1.410 | 14.36 |
| 47) | | 2-Chloronaphth... | 1.200 | 1.209 | 1.212 | 1.038 | 1.034 | 1.009 | 0.936 | 1.091 | 10.40 |
| 48) | | 2-Nitroaniline | 0.118 | 0.164 | 0.240 | 0.280 | 0.304 | 0.325 | 0.319 | 0.250 | 32.28 |
| 49) | | Acenaphthylene | 1.970 | 1.959 | 1.987 | 1.664 | 1.663 | 1.599 | 1.444 | 1.755 | 12.30 |
| 50) | | Dimethylphthalate | 1.452 | 1.451 | 1.490 | 1.282 | 1.279 | 1.264 | 1.204 | 1.346 | 8.50 |
| 51) | | 2,6-Dinitrotol... | 0.103 | 0.157 | 0.224 | 0.242 | 0.262 | 0.270 | 0.263 | 0.217 | 29.34 |
| 52) | C | Acenaphthene | 1.214 | 1.213 | 1.206 | 1.021 | 1.022 | 1.002 | 0.935 | 1.088 | 10.96 |
| 53) | | 3-Nitroaniline | 0.133 | 0.194 | 0.268 | 0.286 | 0.301 | 0.309 | 0.306 | 0.257 | 26.33 |
| 54) | P | 2,4-Dinitrophenol | | 0.036 | 0.052 | 0.076 | 0.090 | 0.105 | 0.110 | 0.078 | 37.78 |
| 55) | | Dibenzofuran | 1.835 | 1.858 | 1.824 | 1.521 | 1.517 | 1.459 | 1.311 | 1.618 | 13.51 |
| 56) | P | 4-Nitrophenol | | 0.151 | 0.210 | 0.219 | 0.239 | 0.245 | 0.237 | 0.217 | 16.12 |
| 57) | | 2,4-Dinitrotol... | 0.114 | 0.166 | 0.251 | 0.287 | 0.318 | 0.327 | 0.309 | 0.253 | 32.57 |
| 58) | | Fluorene | 1.464 | 1.406 | 1.355 | 1.045 | 1.033 | 0.990 | | 1.215 | 17.68 |
| 59) | | 2,3,4,6-Tetrac... | 0.305 | 0.343 | 0.358 | 0.321 | 0.326 | 0.320 | 0.296 | 0.324 | 6.52 |
| 60) | | Diethylphthalate | 1.424 | 1.415 | 1.428 | 1.233 | 1.249 | 1.209 | 1.116 | 1.296 | 9.67 |
| 61) | | 4-Chlorophenyl... | 0.689 | 0.674 | 0.657 | 0.503 | 0.494 | 0.482 | | 0.583 | 17.05 |
| 62) | | 4-Nitroaniline | 0.143 | 0.194 | 0.261 | 0.270 | 0.290 | 0.298 | 0.292 | 0.250 | 23.52 |
| 63) | | Azobenzene | 1.448 | 1.424 | 1.452 | 1.218 | 1.235 | 1.189 | 1.085 | 1.293 | 11.37 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.031 | 0.050 | 0.067 | 0.081 | 0.089 | 0.093 | 0.069 | 35.00 |
| 66) | c | n-Nitrosodiphe... | 0.700 | 0.704 | 0.712 | 0.601 | 0.605 | 0.592 | 0.547 | 0.638 | 10.41 |
| 67) | | 4-Bromophenyl-... | 0.236 | 0.240 | 0.252 | 0.215 | 0.219 | 0.216 | 0.199 | 0.225 | 8.06 |
| 68) | | Hexachlorobenzene | 0.243 | 0.249 | 0.259 | 0.221 | 0.226 | 0.222 | 0.205 | 0.232 | 8.17 |
| 69) | | Atrazine | 0.196 | 0.205 | 0.212 | 0.180 | 0.184 | 0.181 | 0.169 | 0.189 | 8.09 |
| 70) | C | Pentachlorophenol | 0.127 | 0.145 | 0.175 | 0.162 | 0.168 | 0.164 | 0.157 | 0.157 | 10.18 |
| 71) | | Phenanthrene | 1.199 | 1.181 | 1.178 | 0.969 | 0.973 | 0.928 | 0.848 | 1.039 | 13.78 |
| 72) | | Anthracene | 1.226 | 1.219 | 1.228 | 0.994 | 0.996 | 0.964 | 0.865 | 1.070 | 14.06 |
| 73) | | Carbazole | 1.092 | 1.075 | 1.080 | 0.886 | 0.904 | 0.860 | 0.779 | 0.954 | 13.26 |
| 74) | | Di-n-butylphth... | 1.207 | 1.219 | 1.255 | 1.057 | 1.069 | 1.018 | 0.926 | 1.107 | 11.01 |
| 75) | C | Fluoranthene | 1.231 | 1.202 | 1.196 | 0.953 | 0.949 | 0.900 | | 1.072 | 14.24 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.440 | 0.420 | 0.437 | 0.559 | 0.452 | 0.476 | 0.438 | 0.460 | 10.17 |
| 78) | | Pyrene | 1.666 | 1.712 | 1.899 | 1.818 | 1.843 | 1.814 | 1.687 | 1.777 | 4.98 |
| 79) | S | Terphenyl-d14 | 1.372 | 1.334 | 1.418 | 1.289 | 1.296 | 1.281 | 1.162 | 1.307 | 6.19 |
| 80) | | Butylbenzylpht... | 0.411 | 0.481 | 0.595 | 0.606 | 0.644 | 0.649 | 0.630 | 0.574 | 15.97 |
| 81) | | Benzo(a)anthra... | 1.434 | 1.441 | 1.505 | 1.351 | 1.356 | 1.343 | 1.266 | 1.385 | 5.74 |
| 82) | | 3,3'-Dichlorob... | 0.396 | 0.412 | 0.460 | 0.461 | 0.463 | 0.466 | 0.453 | 0.444 | 6.40 |
| 83) | | Chrysene | 1.397 | 1.375 | 1.425 | 1.327 | 1.364 | 1.352 | 1.309 | 1.364 | 2.92 |
| 84) | | Bis(2-ethylhex... | 0.563 | 0.614 | 0.713 | 0.696 | 0.723 | 0.713 | 0.684 | 0.672 | 9.01 |
| 85) | c | Di-n-octyl pht... | | 0.773 | 0.983 | 1.176 | 1.231 | 1.351 | 1.353 | 1.145 | 19.88 |

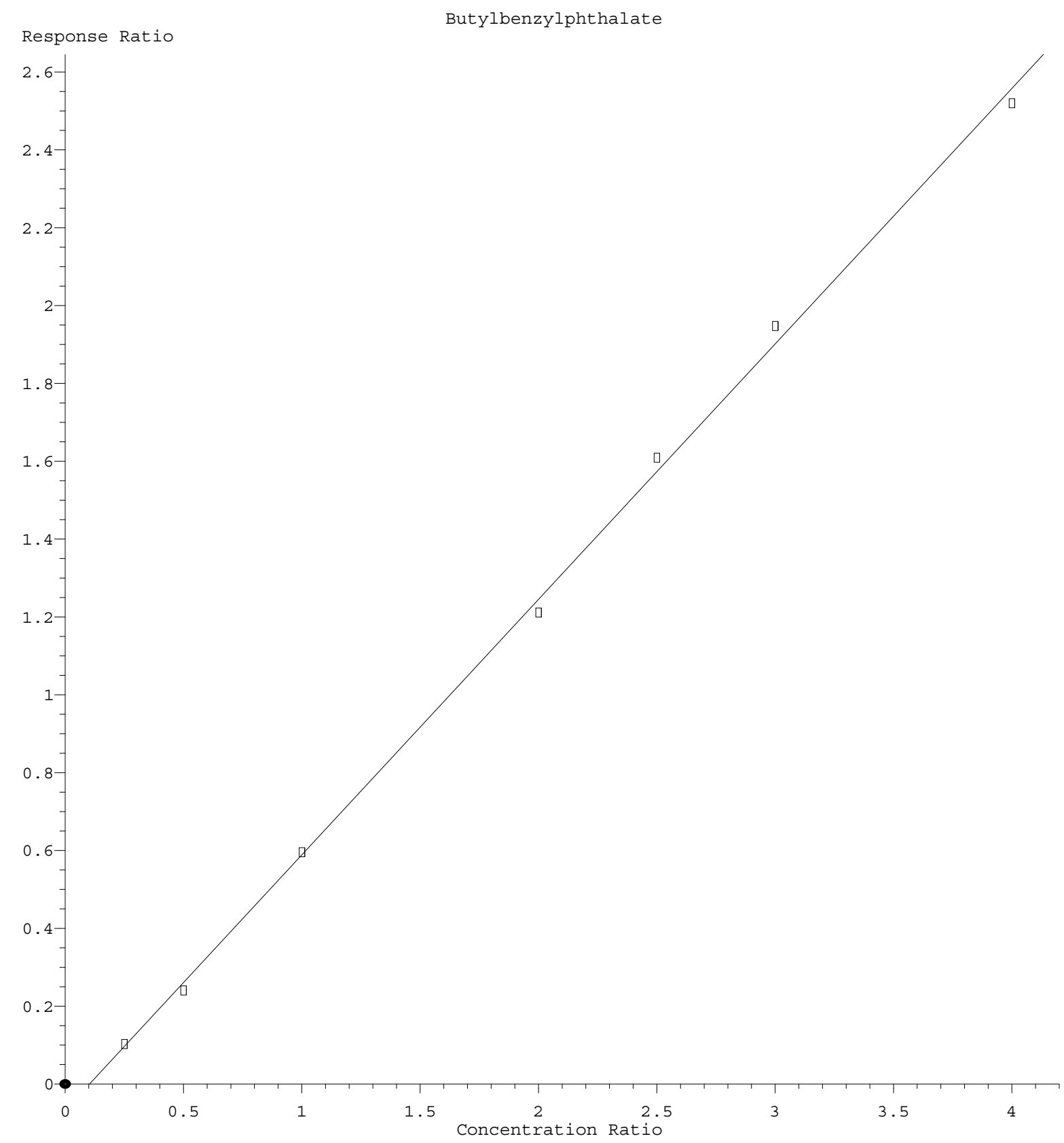
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF032624.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.060 | 1.181 | 1.358 | 1.334 | 1.366 | 1.417 | 1.317 | 1.290 | 9.70 |
| 88) | | Benzo(b)fluora... | 1.262 | 1.279 | 1.246 | 1.121 | 1.119 | 1.182 | 1.042 | 1.179 | 7.51 |
| 89) | | Benzo(k)fluora... | 1.312 | 1.292 | 1.309 | 1.115 | 1.148 | 1.059 | 1.002 | 1.177 | 10.88 |
| 90) | C | Benzo(a)pyrene | 1.131 | 1.152 | 1.193 | 1.075 | 1.105 | 1.099 | 1.028 | 1.112 | 4.80 |
| 91) | | Dibenzo(a,h)an... | 0.904 | 0.982 | 1.121 | 1.095 | 1.118 | 1.151 | 1.062 | 1.062 | 8.33 |
| 92) | | Benzo(g,h,i)pe... | 0.893 | 0.976 | 1.108 | 1.112 | 1.138 | 1.197 | 1.117 | 1.077 | 9.74 |

(#) = Out of Range




Response = 1.457e+000 * Amt - 4.468e-001
Coef of Det (r^2) = 0.996807  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024




Response = 6.564e-001 * Amt - 6.737e-002
Coef of Det (r^2) = 0.998692  Curve Fit: Linear
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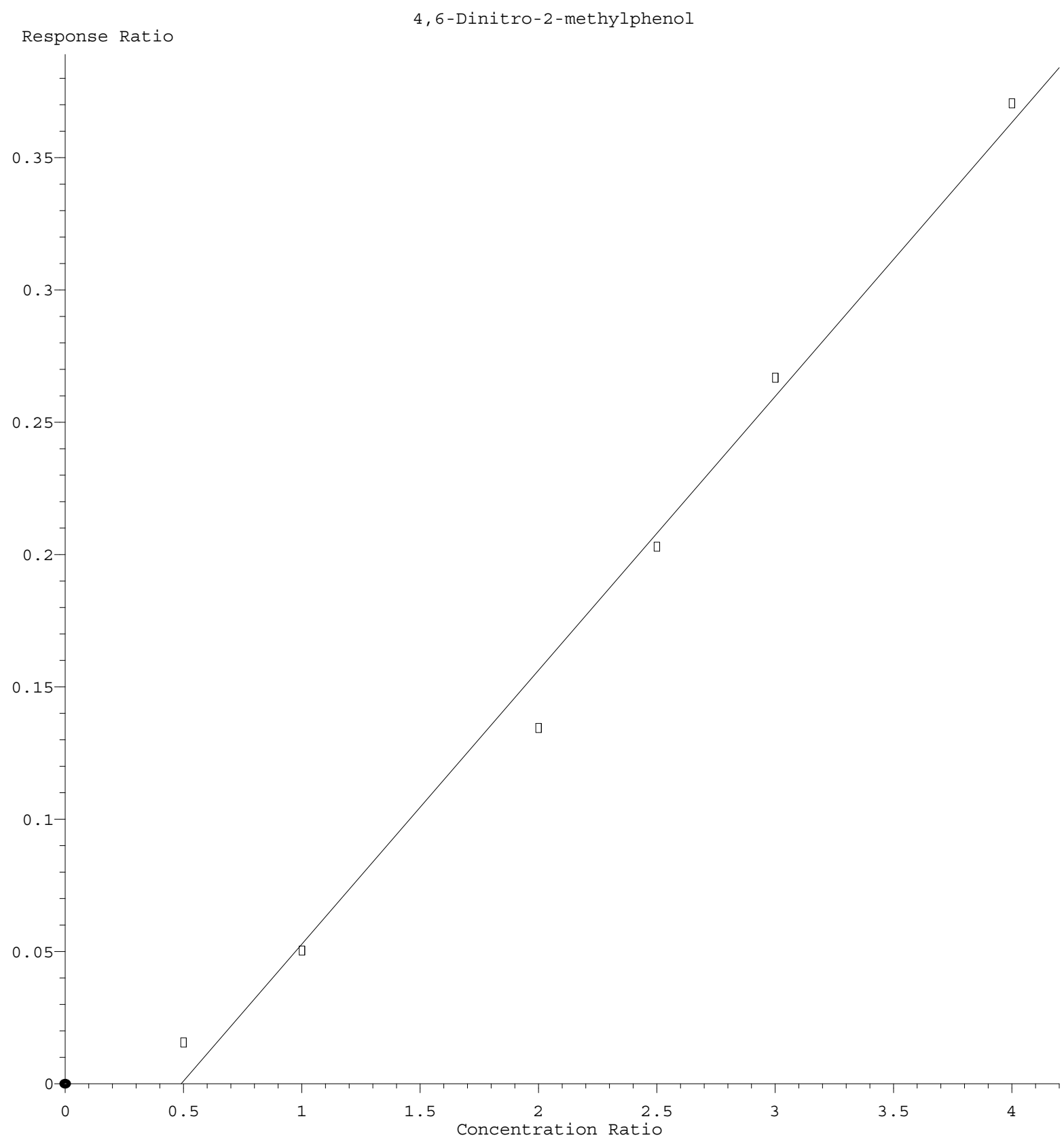
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024




Response = 1.035e-001 * Amt - 5.070e-002
Coef of Det (r^2) = 0.990871  Curve Fit: Linear
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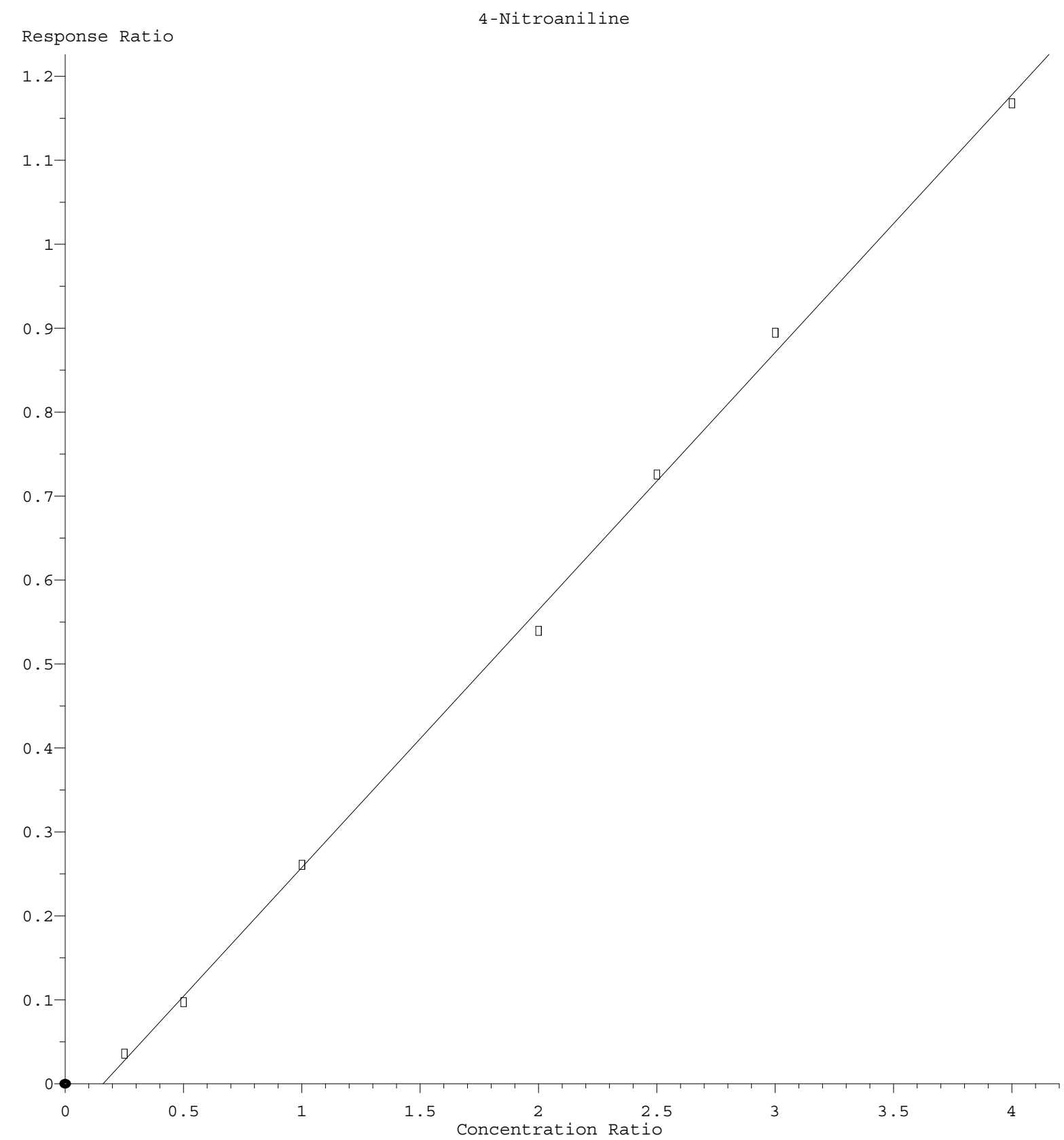
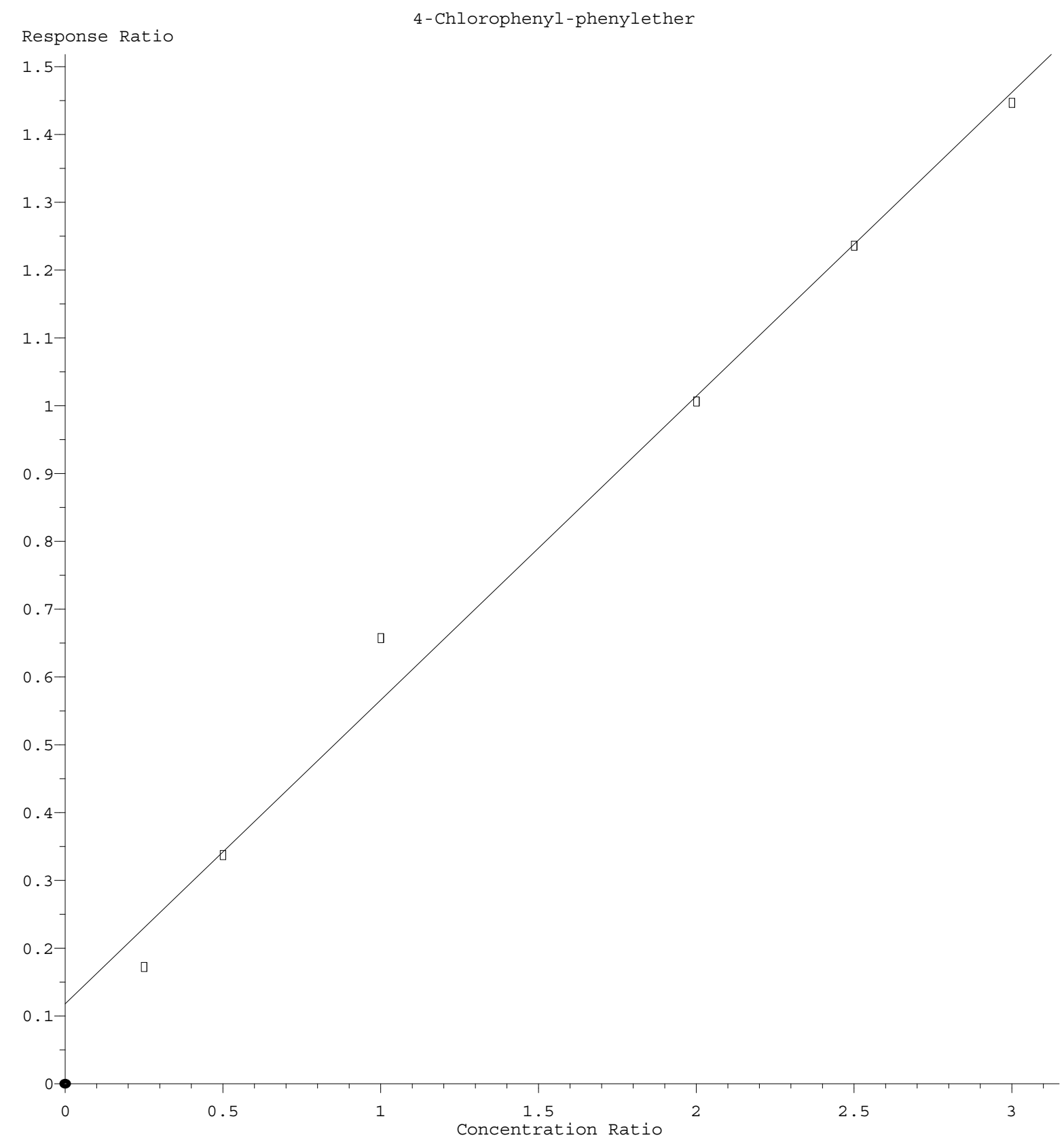
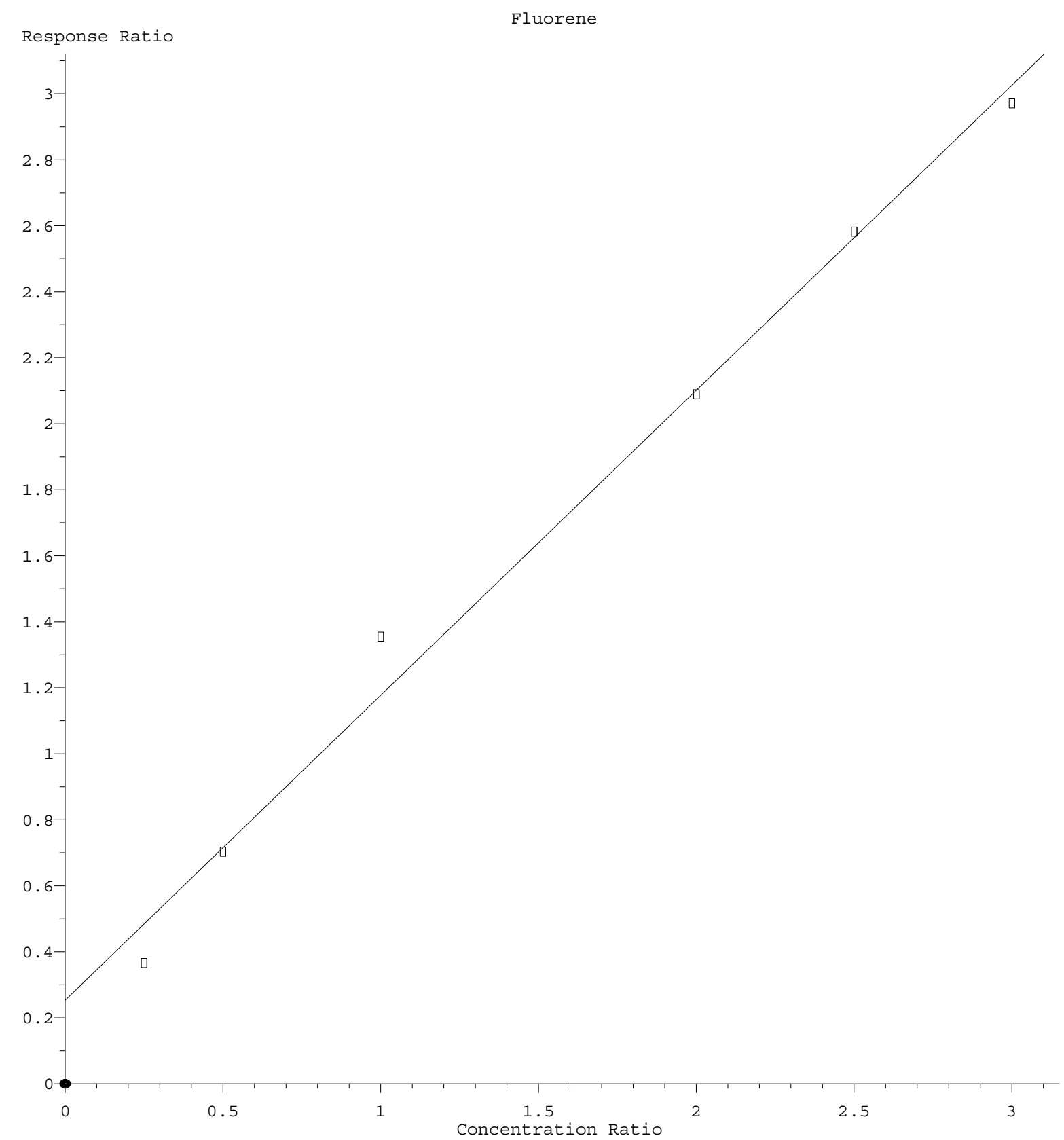
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024



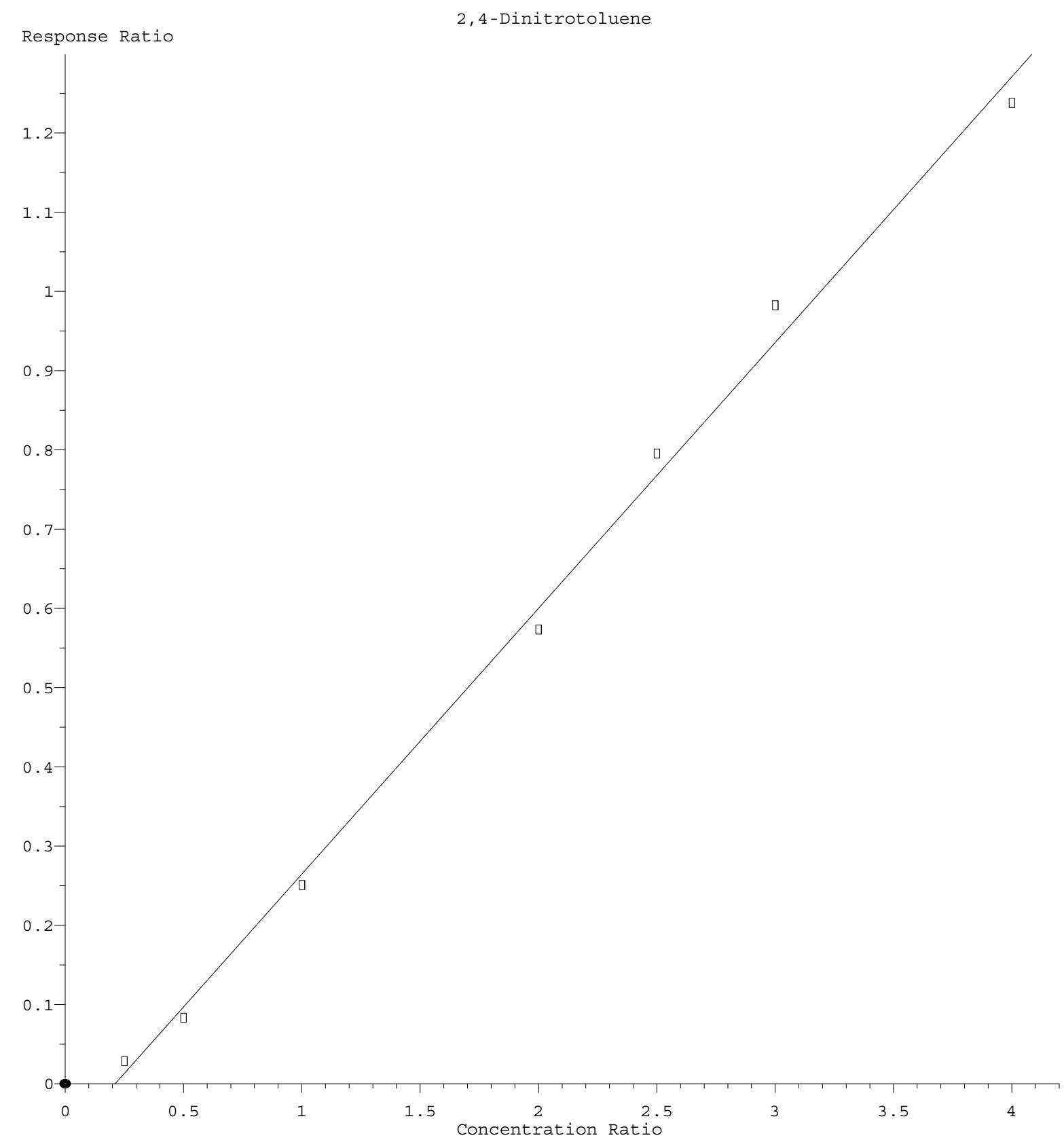

Response = 3.068e-001 * Amt - 4.912e-002
Coef of Det (r^2) = 0.998649  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024



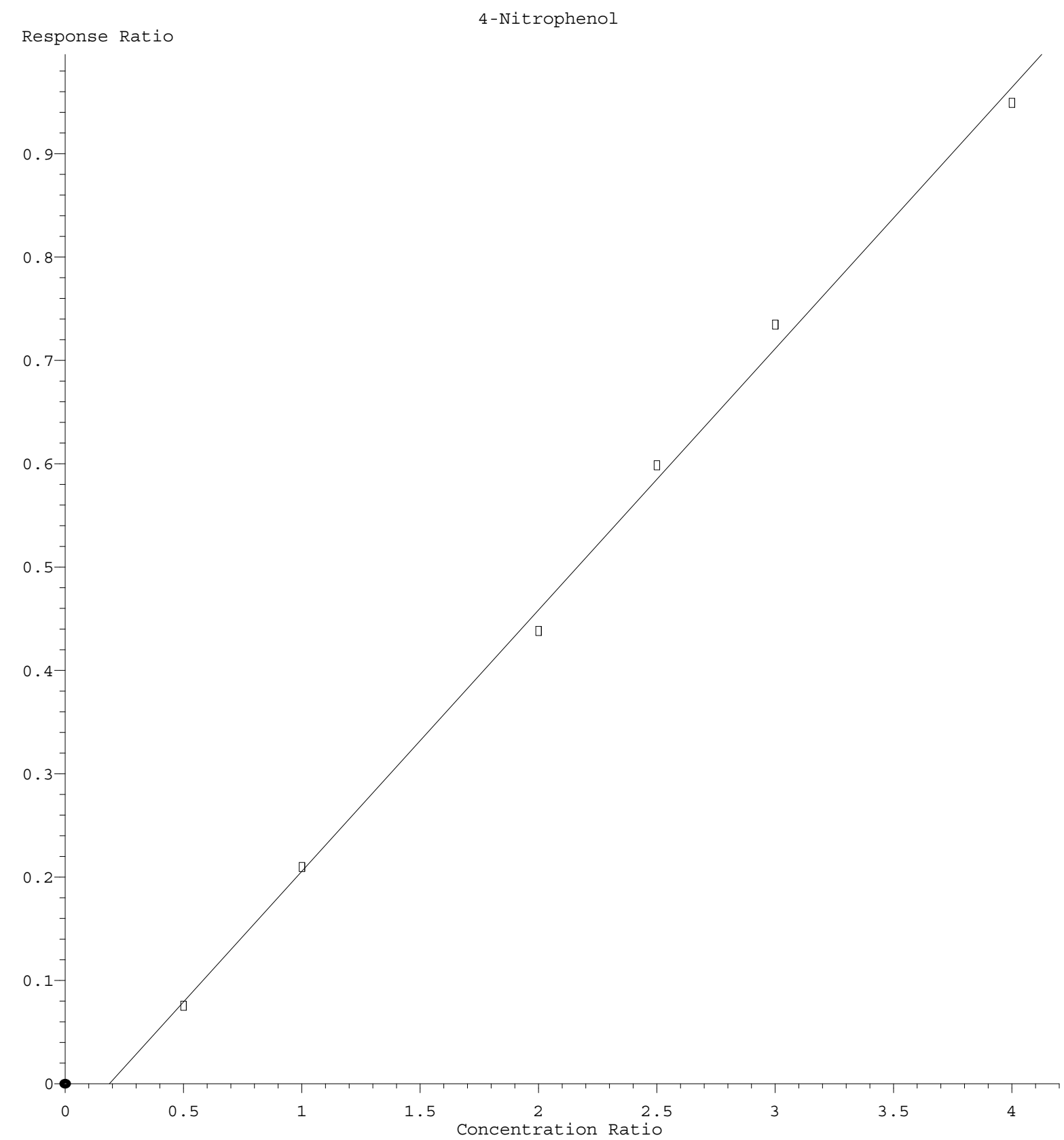

Response = 4.483e-001 * Amt + 1.180e-001
Coef of Det (r^2) = 0.990627  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024



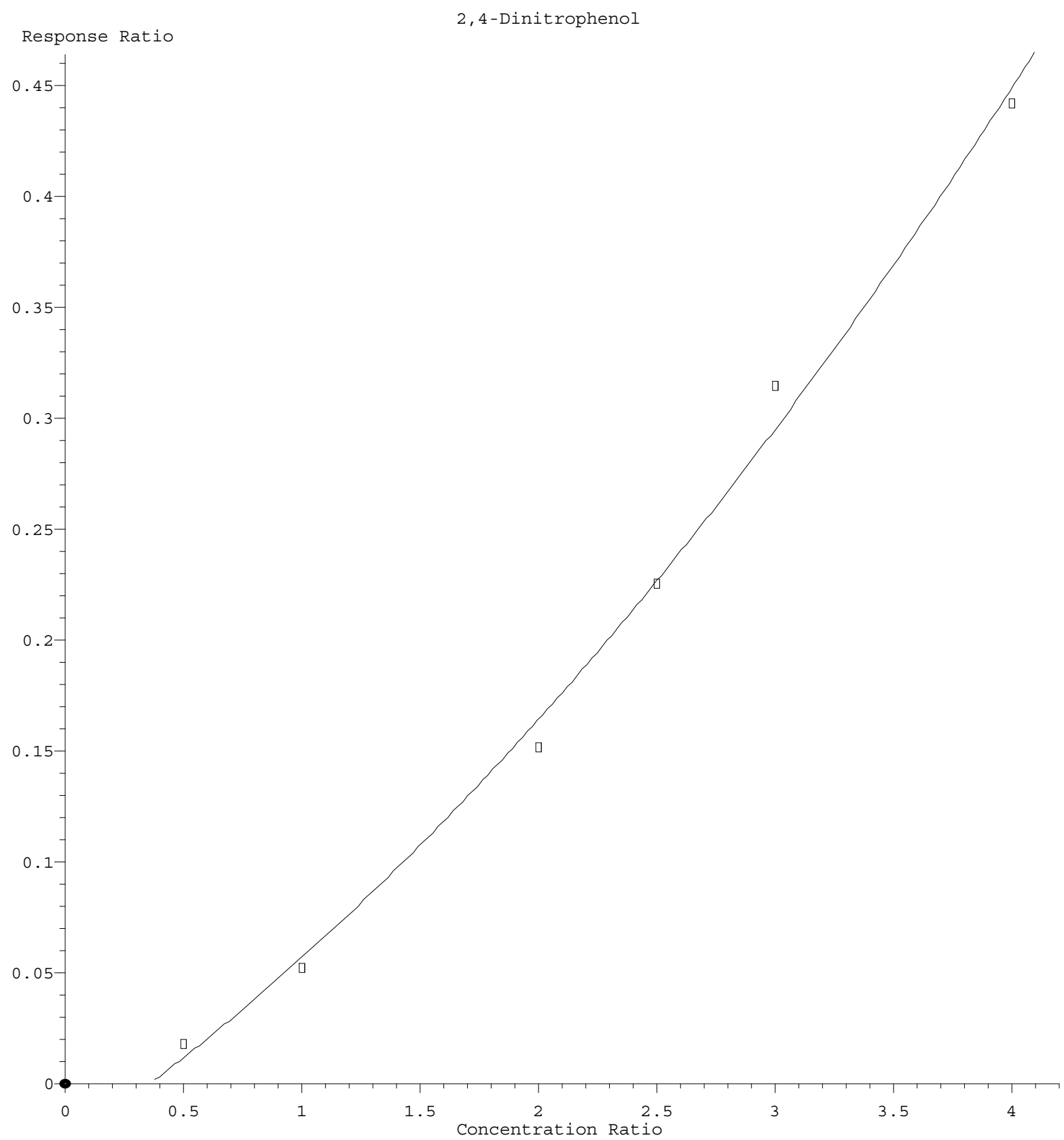

Response = 9.244e-001 * Amt + 2.526e-001
Coef of Det (r^2) = 0.990970  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024



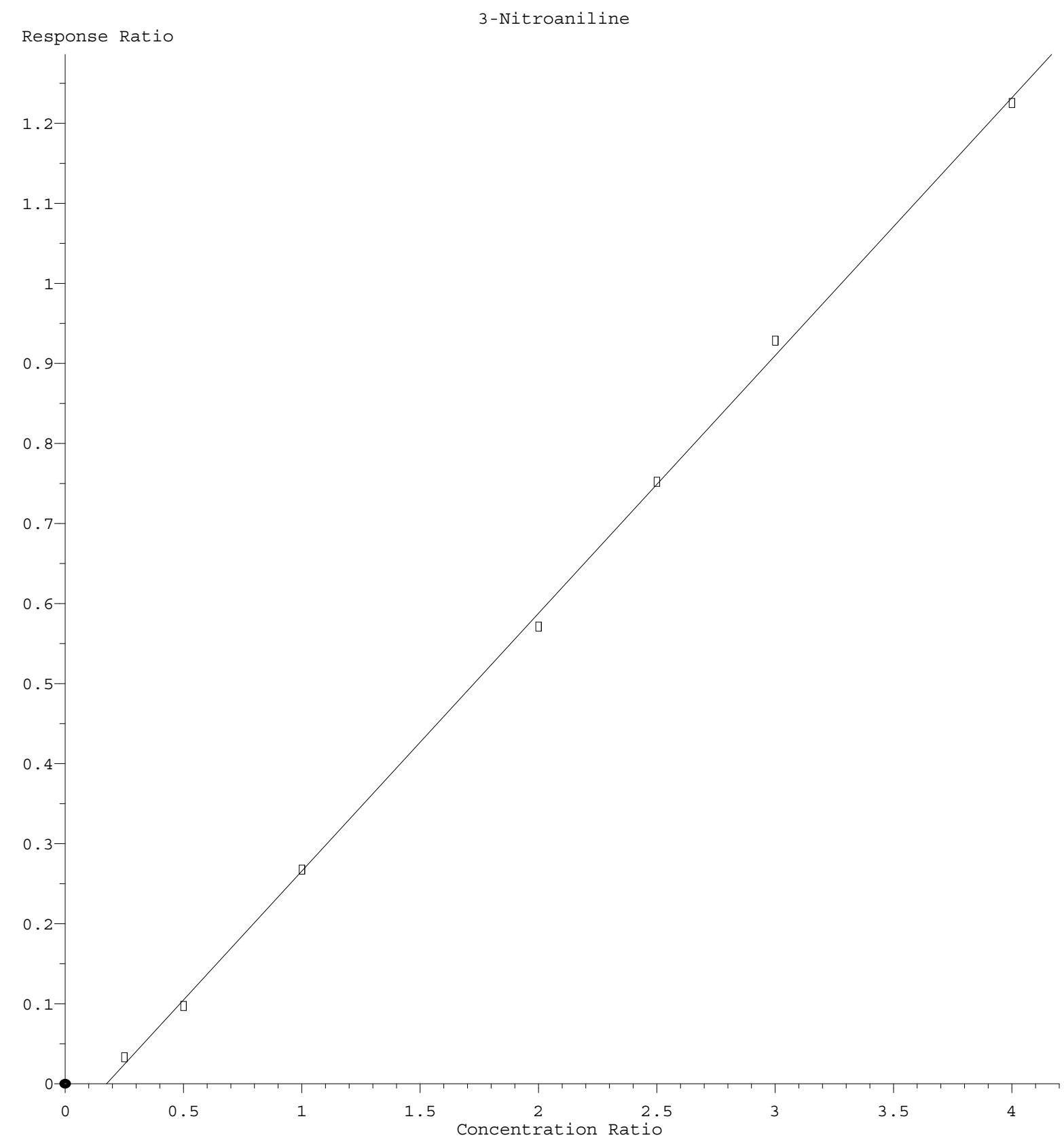

Response = 3.356e-001 * Amt - 7.076e-002
Coef of Det (r^2) = 0.995847  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024



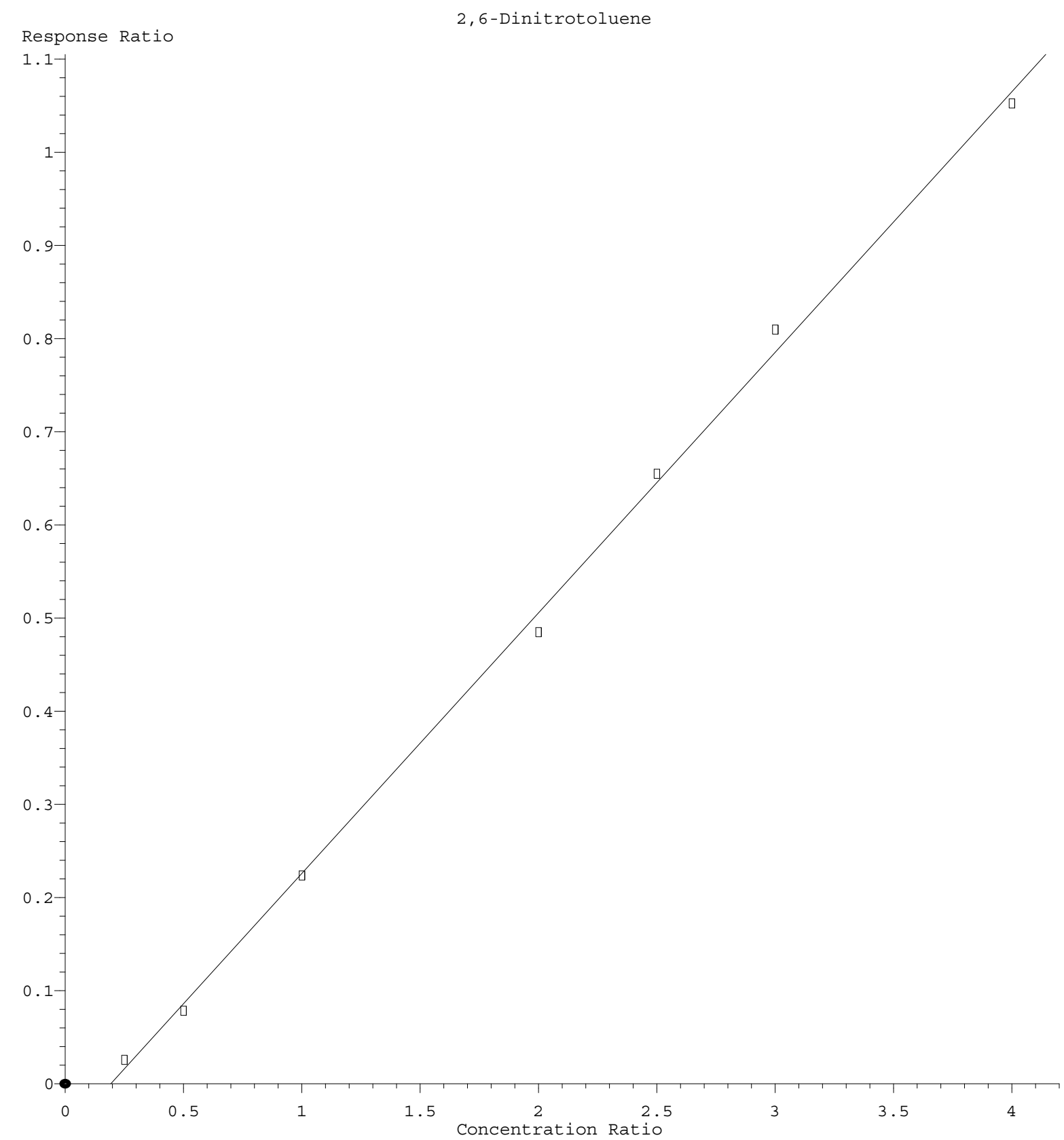

Response = 2.530e-001 * Amt - 4.723e-002
Coef of Det (r^2) = 0.997387  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024



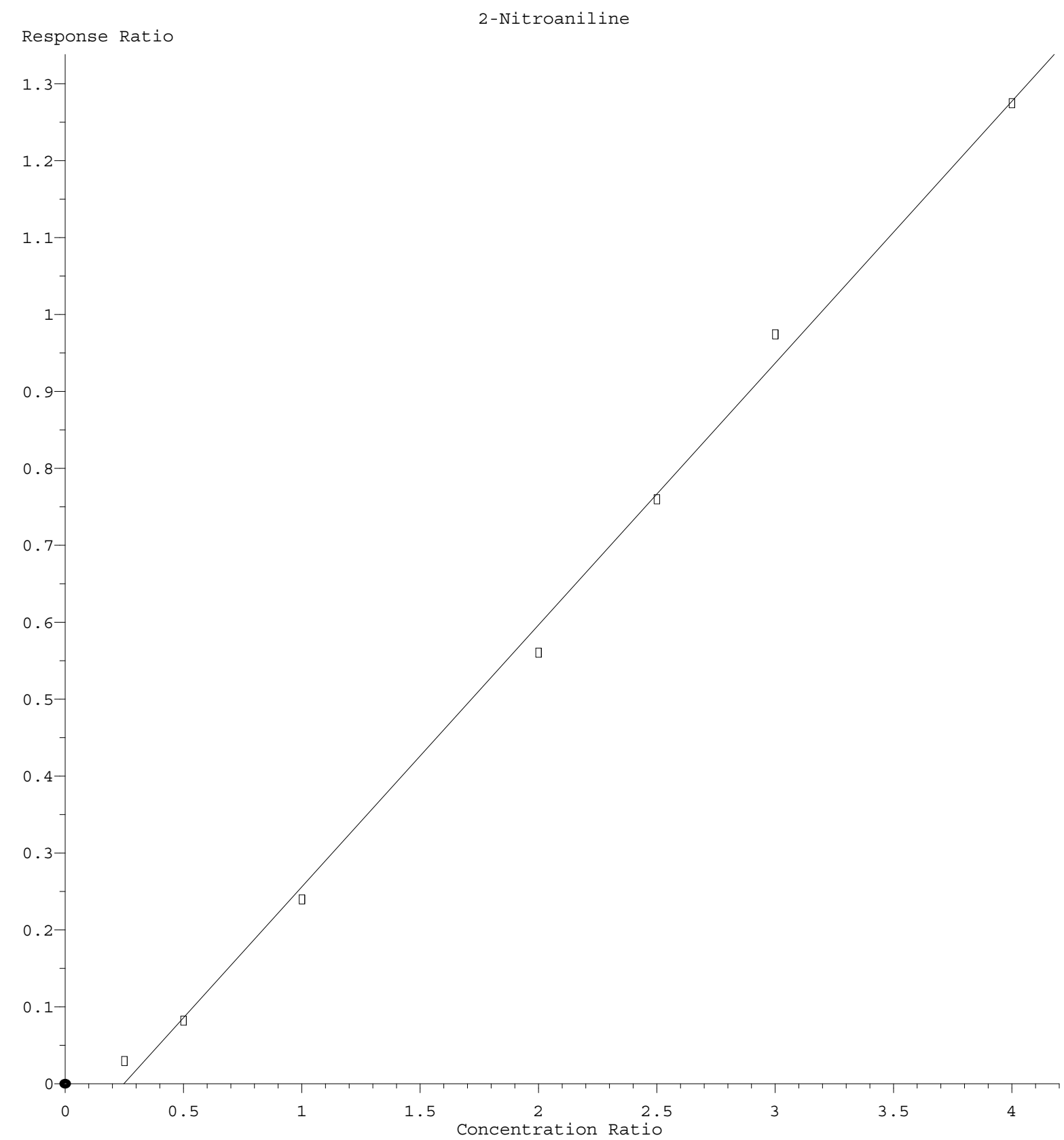

R = 1.162e-002 A*A + 7.265e-002 A - 2.745e-002
Coef of Det (r^2) = 0.994961  Curve Fit: Quadratic
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024



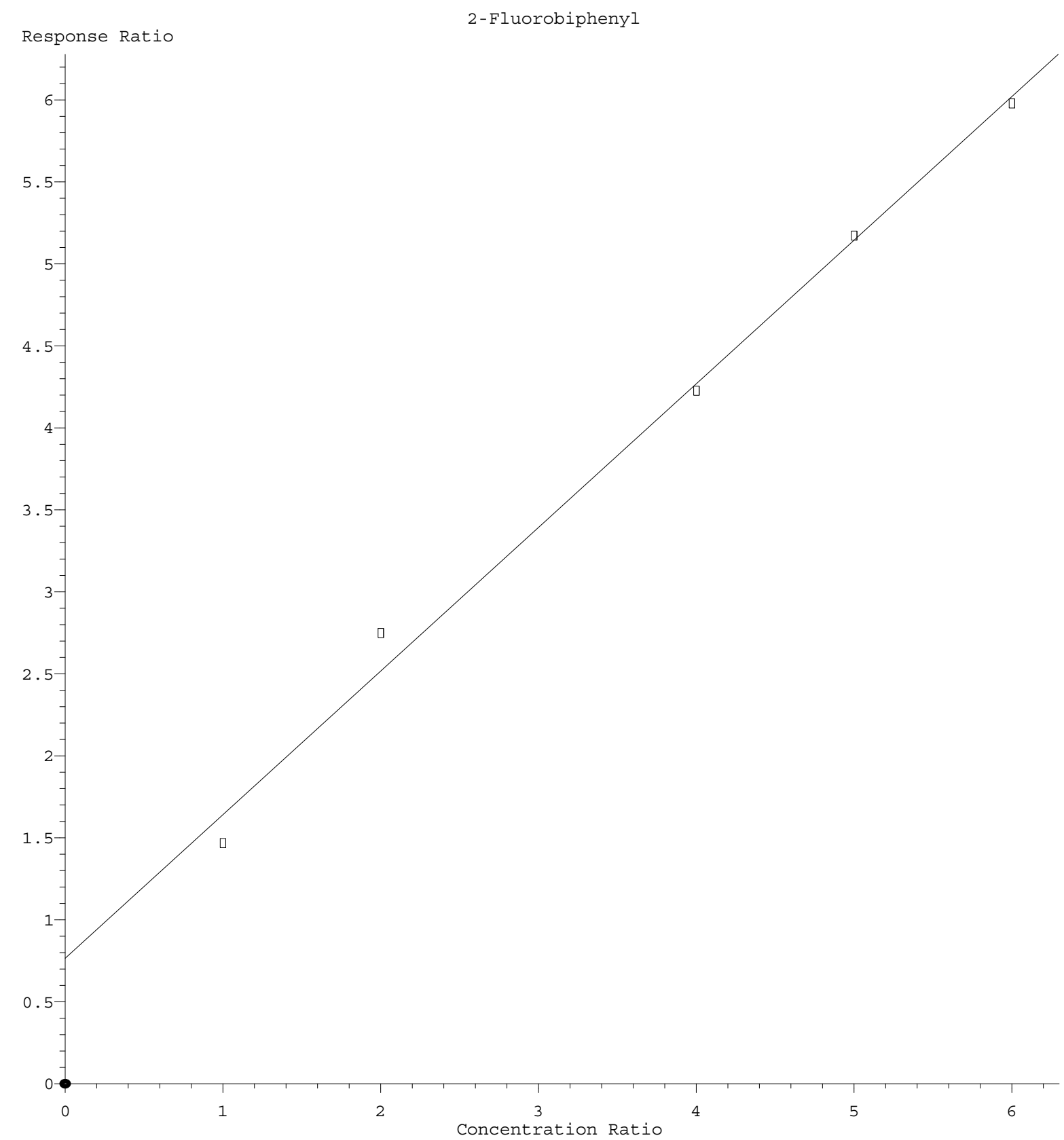

Response = 3.221e-001 * Amt - 5.622e-002
Coef of Det (r^2) = 0.999317  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024



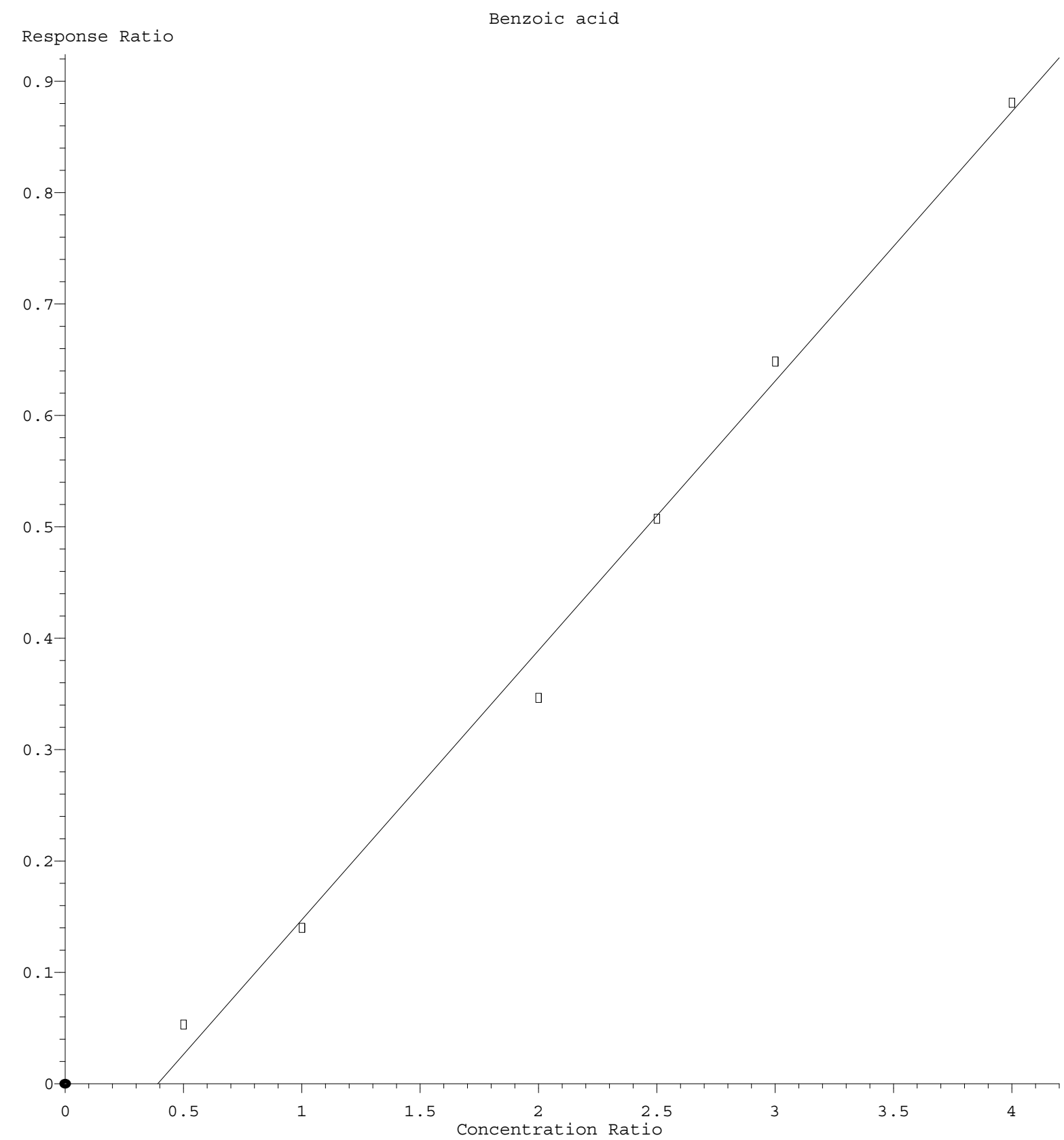

Response = 2.798e-001 * Amt - 5.402e-002
Coef of Det (r^2) = 0.998415  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024




Response = 3.404e-001 * Amt - 8.438e-002
Coef of Det (r^2) = 0.997110  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024




Response = 8.759e-001 * Amt + 7.652e-001
Coef of Det (r^2) = 0.993372  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024




Response = 2.417e-001 * Amt - 9.439e-002
Coef of Det (r^2) = 0.993942  Curve Fit: Linear
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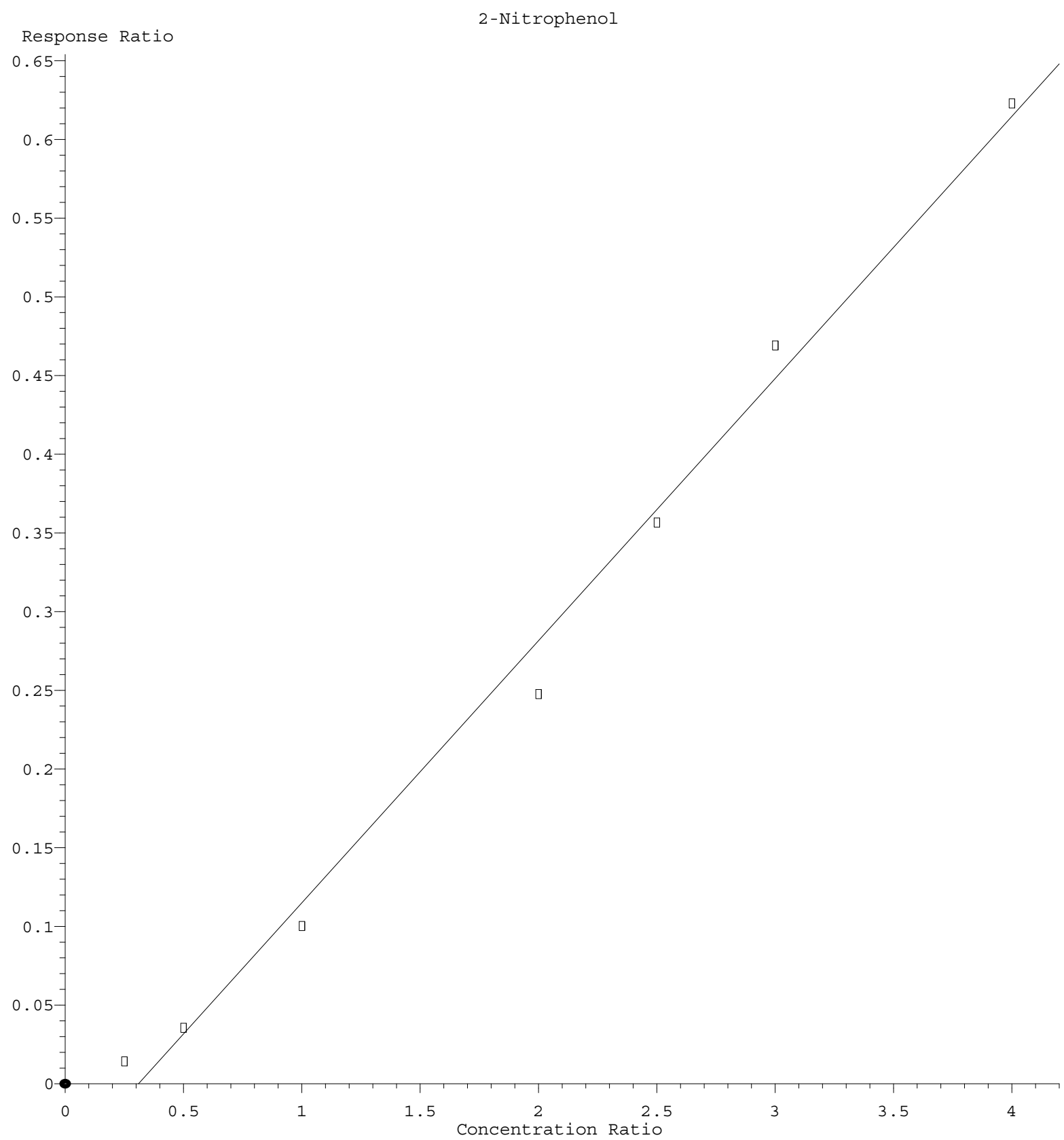
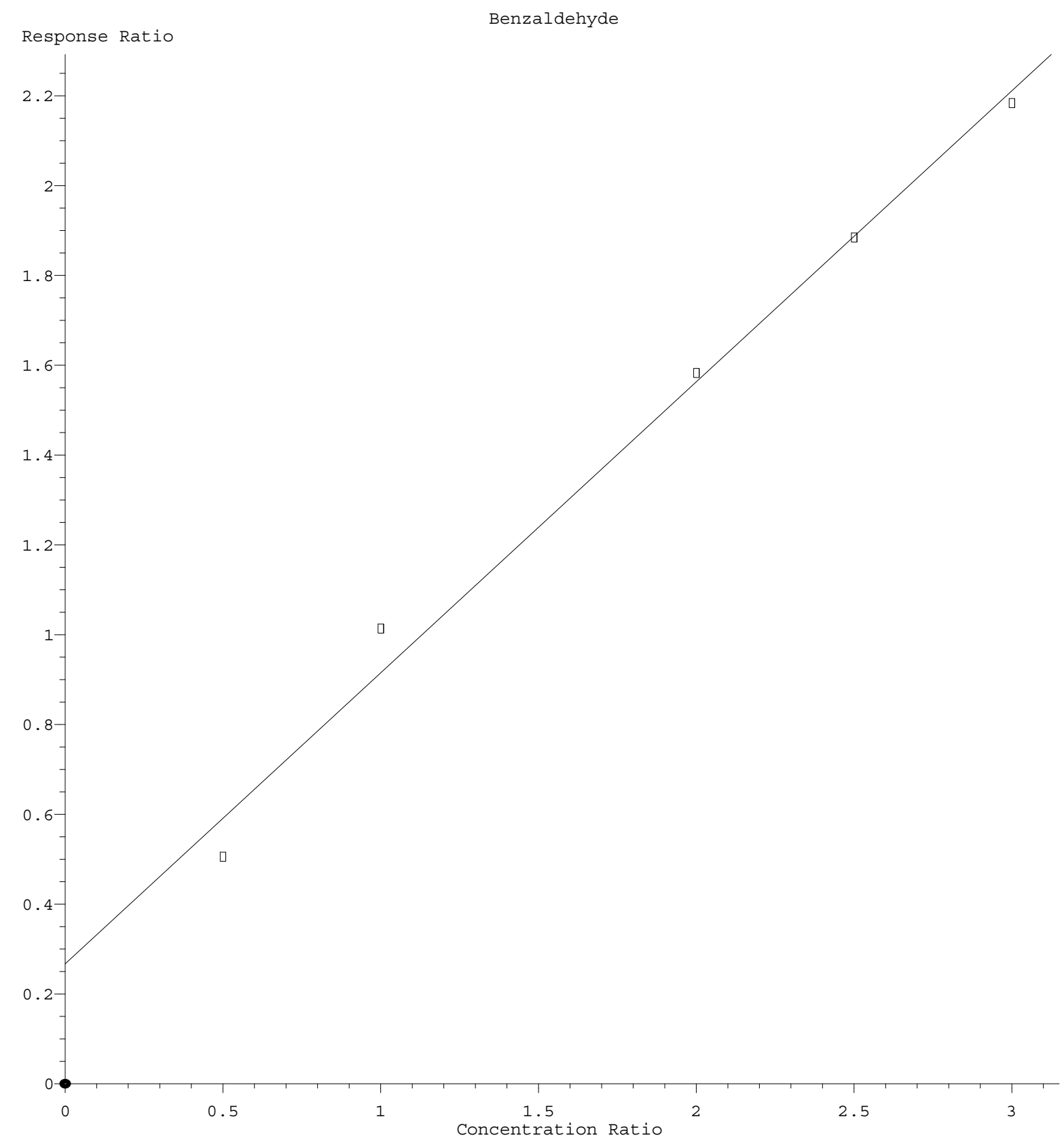
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024




Response = 1.666e-001 * Amt - 5.156e-002
Coef of Det (r^2) = 0.992079  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024




Response = 6.484e-001 * Amt + 2.669e-001
Coef of Det (r^2) = 0.990050  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF032624.M
Calibration Table Last Updated: Wed Mar 27 01:52:09 2024