

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X022624W.M  
 Title : SW846 8260  
 Last Update : Tue Feb 27 05:01:33 2024  
 Response Via : Initial Calibration

## Calibration Files

1 =VX040447.D 5 =VX040448.D 20 =VX040450.D 50 =VX040451.D 100 =VX040452.D 150 =VX040453.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.663          | 0.634 | 0.602 | 0.597 | 0.621 | 0.616 | 0.622 | 3.84  |
| 3) P   | Chloromethane       | 0.681          | 0.629 | 0.643 | 0.580 | 0.604 | 0.566 | 0.617 | 6.87  |
| 4) C   | Vinyl Chloride      | 0.764          | 0.661 | 0.683 | 0.629 | 0.646 | 0.621 | 0.667 | 7.86# |
| 5) T   | Bromomethane        |                | 0.397 | 0.423 | 0.397 | 0.325 | 0.312 | 0.371 | 13.27 |
| 6) T   | Chloroethane        | 0.429          | 0.516 | 0.434 | 0.393 | 0.379 | 0.383 | 0.422 | 12.26 |
| 7) T   | Trichlorofluor...   | 1.092          | 1.071 | 1.059 | 1.001 | 1.051 | 1.050 | 1.054 | 2.89  |
| 8) T   | Diethyl Ether       | 0.394          | 0.359 | 0.376 | 0.353 | 0.373 | 0.356 | 0.368 | 4.19  |
| 9) T   | 1,1,2-Trichlor...   | 0.593          | 0.575 | 0.572 | 0.539 | 0.561 | 0.563 | 0.567 | 3.17  |
| 10) T  | Methyl Iodide       |                | 0.375 | 0.511 | 0.563 | 0.641 | 0.650 | 0.548 | 20.49 |
| 11) T  | Tert butyl alc...   |                | 0.126 | 0.141 | 0.138 | 0.151 | 0.147 | 0.141 | 6.78  |
| 12) CM | 1,1-Dichloroet...   | 0.680          | 0.556 | 0.575 | 0.525 | 0.542 | 0.541 | 0.570 | 9.92# |
| 13) T  | Acrolein            |                | 0.080 | 0.079 | 0.085 | 0.096 | 0.110 | 0.090 | 14.59 |
| 14) T  | Allyl chloride      | 1.025          | 0.974 | 1.032 | 0.944 | 1.009 | 0.996 | 0.997 | 3.32  |
| 15) T  | Acrylonitrile       | 0.380          | 0.351 | 0.360 | 0.337 | 0.351 | 0.337 | 0.353 | 4.55  |
| 16) T  | Acetone             | 0.274          | 0.257 | 0.278 | 0.267 | 0.281 | 0.278 | 0.273 | 3.27  |
| 17) T  | Carbon Disulfide    | 1.860          | 1.591 | 1.534 | 1.452 | 1.525 | 1.502 | 1.578 | 9.23  |
| 18) T  | Methyl Acetate      | 0.923          | 0.786 | 0.783 | 0.840 | 0.871 | 0.843 | 0.841 | 6.30  |
| 19) T  | Methyl tert-bu...   | 2.057          | 1.830 | 1.966 | 1.872 | 1.983 | 1.951 | 1.943 | 4.17  |
| 20) T  | Methylene Chlo...   | 0.750          | 0.657 | 0.654 | 0.601 | 0.636 | 0.618 | 0.653 | 8.01  |
| 21) T  | trans-1,2-Dich...   | 0.654          | 0.625 | 0.613 | 0.578 | 0.589 | 0.587 | 0.608 | 4.76  |
| 22) T  | Diisopropyl ether   | 2.017          | 2.013 | 2.072 | 1.930 | 2.005 | 1.979 | 2.003 | 2.35  |
| 23) T  | Vinyl Acetate       | 1.784          | 1.743 | 1.923 | 1.787 | 1.901 | 1.870 | 1.835 | 3.98  |
| 24) P  | 1,1-Dichloroet...   | 1.269          | 1.164 | 1.191 | 1.100 | 1.153 | 1.129 | 1.168 | 5.01  |
| 25) T  | 2-Butanone          | 0.487          | 0.455 | 0.485 | 0.466 | 0.487 | 0.472 | 0.475 | 2.74  |
| 26) T  | 2,2-Dichloropr...   | 1.020          | 0.851 | 0.900 | 0.872 | 0.962 | 0.973 | 0.930 | 7.03  |
| 27) T  | cis-1,2-Dichlo...   | 0.809          | 0.707 | 0.720 | 0.657 | 0.693 | 0.679 | 0.711 | 7.41  |
| 28) T  | Bromochloromet...   | 0.429          | 0.565 | 0.453 | 0.509 | 0.505 | 0.470 | 0.489 | 9.92  |
| 29) T  | Tetrahydrofuran     | 0.342          | 0.332 | 0.343 | 0.317 | 0.334 | 0.321 | 0.331 | 3.25  |
| 30) C  | Chloroform          | 1.292          | 1.263 | 1.241 | 1.192 | 1.240 | 1.211 | 1.240 | 2.86# |
| 31) T  | Cyclohexane         |                | 0.950 | 0.977 | 0.906 | 0.958 | 0.946 | 0.947 | 2.74  |
| 32) T  | 1,1,1-Trichlor...   | 1.100          | 1.029 | 1.043 | 1.006 | 1.093 | 1.077 | 1.058 | 3.57  |
| 33) S  | 1,2-Dichloroet...   |                | 0.952 | 0.810 | 0.774 | 0.826 | 0.819 | 0.836 | 8.09  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   |                | 0.364 | 0.346 | 0.332 | 0.353 | 0.345 | 0.348 | 3.35  |
| 36) T  | 1,1-Dichloropr...   | 0.596          | 0.543 | 0.538 | 0.495 | 0.529 | 0.513 | 0.536 | 6.45  |
| 37) T  | Ethyl Acetate       | 0.642          | 0.574 | 0.585 | 0.560 | 0.590 | 0.566 | 0.586 | 5.01  |
| 38) T  | Carbon Tetrach...   | 0.529          | 0.471 | 0.519 | 0.508 | 0.543 | 0.535 | 0.518 | 4.96  |
| 39) T  | Methylcyclohexane   | 0.546          | 0.567 | 0.598 | 0.564 | 0.602 | 0.593 | 0.578 | 3.92  |
| 40) TM | Benzene             | 1.522          | 1.451 | 1.472 | 1.387 | 1.467 | 1.402 | 1.450 | 3.40  |
| 41) T  | Methacrylonitrile   | 0.374          | 0.329 | 0.313 | 0.308 | 0.325 | 0.316 | 0.327 | 7.34  |
| 42) TM | 1,2-Dichloroet...   | 0.586          | 0.582 | 0.629 | 0.581 | 0.624 | 0.598 | 0.600 | 3.56  |
| 43) T  | Isopropyl Acetate   | 0.925          | 0.868 | 0.929 | 0.885 | 0.977 | 0.936 | 0.920 | 4.22  |
| 44) TM | Trichloroethene     | 0.445          | 0.381 | 0.385 | 0.364 | 0.389 | 0.378 | 0.390 | 7.19  |
| 45) C  | 1,2-Dichloropr...   | 0.400          | 0.400 | 0.395 | 0.369 | 0.391 | 0.373 | 0.388 | 3.46# |
| 46) T  | Dibromomethane      | 0.291          | 0.277 | 0.293 | 0.275 | 0.295 | 0.280 | 0.285 | 3.13  |
| 47) T  | Bromodichlorom...   | 0.596          | 0.523 | 0.553 | 0.550 | 0.586 | 0.562 | 0.562 | 4.70  |
| 48) T  | Methyl methacr...   | 0.404          | 0.440 | 0.470 | 0.460 | 0.505 | 0.480 | 0.460 | 7.54  |
| 49) T  | 1,4-Dioxane         | 0.008          | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 7.47  |
| 50) S  | Toluene-d8          |                | 1.327 | 1.222 | 1.214 | 1.303 | 1.245 | 1.262 | 3.97  |
| 51) T  | 4-Methyl-2-Pen...   | 0.578          | 0.578 | 0.645 | 0.601 | 0.637 | 0.610 | 0.608 | 4.71  |
| 52) CM | Toluene             | 0.826          | 0.885 | 0.927 | 0.869 | 0.936 | 0.898 | 0.890 | 4.51# |
| 53) T  | t-1,3-Dichloro...   | 0.500          | 0.497 | 0.579 | 0.577 | 0.641 | 0.628 | 0.570 | 10.76 |
| 54) T  | cis-1,3-Dichlo...   | 0.606          | 0.558 | 0.621 | 0.596 | 0.654 | 0.642 | 0.613 | 5.59  |
| 55) T  | 1,1,2-Trichlor...   | 0.309          | 0.368 | 0.391 | 0.376 | 0.395 | 0.377 | 0.369 | 8.48  |
| 56) T  | Ethyl methacry...   | 0.471          | 0.509 | 0.584 | 0.588 | 0.650 | 0.625 | 0.571 | 12.00 |

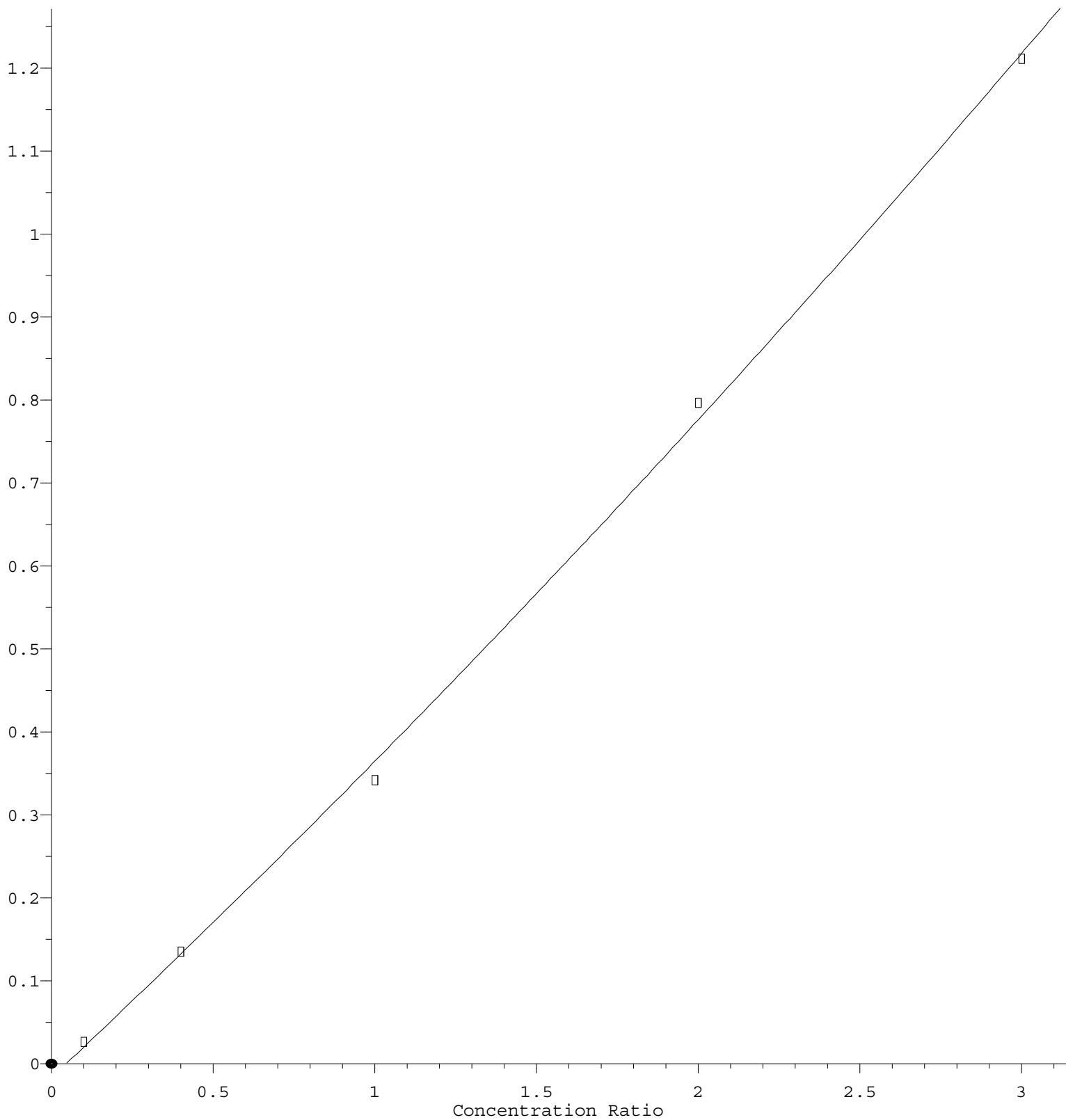
Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X022624W.M

|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.653          | 0.611 | 0.658 | 0.631 | 0.669 | 0.639 | 0.643 | 3.23  |
| 58) | T  | 2-Chloroethyl ...     | 0.270          | 0.284 | 0.295 | 0.309 | 0.330 | 0.309 | 0.299 | 7.01  |
| 59) | T  | 2-Hexanone            | 0.419          | 0.435 | 0.500 | 0.472 | 0.503 | 0.476 | 0.468 | 7.29  |
| 60) | T  | Dibromochlorom...     | 0.384          | 0.358 | 0.412 | 0.395 | 0.436 | 0.422 | 0.401 | 7.04  |
| 61) | T  | 1,2-Dibromoethane     | 0.377          | 0.375 | 0.425 | 0.401 | 0.431 | 0.409 | 0.403 | 5.82  |
| 62) | S  | 4-Bromofluorob...     | 0.447          | 0.465 | 0.472 | 0.511 | 0.509 | 0.481 |       | 5.87  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.399          | 0.344 | 0.351 | 0.334 | 0.340 | 0.337 | 0.351 | 6.93  |
| 65) | PM | Chlorobenzene         | 1.135          | 1.049 | 1.072 | 1.002 | 1.070 | 1.053 | 1.064 | 4.06  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.344          | 0.355 | 0.379 | 0.369 | 0.400 | 0.402 | 0.375 | 6.28  |
| 67) | C  | Ethyl Benzene         | 1.881          | 1.895 | 2.024 | 1.905 | 1.997 | 1.979 | 1.947 | 3.12# |
| 68) | T  | m/p-Xylenes           | 0.742          | 0.693 | 0.751 | 0.707 | 0.741 | 0.728 | 0.727 | 3.12  |
| 69) | T  | o-Xylene              | 0.643          | 0.660 | 0.740 | 0.683 | 0.720 | 0.724 | 0.695 | 5.60  |
| 70) | T  | Styrene               | 1.057          | 1.079 | 1.200 | 1.150 | 1.236 | 1.232 | 1.159 | 6.64  |
| 71) | P  | Bromoform             | 0.250          | 0.278 | 0.310 | 0.307 | 0.346 | 0.349 | 0.307 | 12.57 |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.479          | 3.683 | 3.892 | 3.606 | 3.743 | 3.690 | 3.682 | 3.74  |
| 74) | T  | N-amyl acetate        | 1.458          | 1.550 | 1.767 | 1.734 | 1.904 | 1.847 | 1.710 | 10.11 |
| 75) | P  | 1,1,2,2-Tetrac...     | 1.350          | 1.355 | 1.400 | 1.280 | 1.330 | 1.276 | 1.332 | 3.57  |
| 76) | T  | 1,2,3-Trichlor...     | 1.144          | 1.048 | 1.113 | 1.101 | 1.122 | 1.074 | 1.100 | 3.15  |
| 77) | T  | Bromobenzene          | 0.858          | 0.851 | 0.907 | 0.859 | 0.887 | 0.862 | 0.871 | 2.48  |
| 78) | T  | n-propylbenzene       | 4.545          | 4.425 | 4.773 | 4.481 | 4.631 | 4.549 | 4.567 | 2.68  |
| 79) | T  | 2-Chlorotoluene       | 2.915          | 2.744 | 2.816 | 2.619 | 2.705 | 2.698 | 2.750 | 3.76  |
| 80) | T  | 1,3,5-Trimethy...     | 2.874          | 3.090 | 3.338 | 3.099 | 3.220 | 3.170 | 3.132 | 4.97  |
| 81) | T  | trans-1,4-Dich...     | 0.263          | 0.338 | 0.342 | 0.398 | 0.404 | 0.349 |       | 16.32 |
| 82) | T  | 4-Chlorotoluene       | 3.155          | 3.181 | 3.271 | 3.097 | 3.203 | 3.170 | 3.180 | 1.80  |
| 83) | T  | tert-Butylbenzene     | 2.693          | 2.897 | 3.066 | 2.931 | 3.071 | 3.057 | 2.952 | 4.99  |
| 84) | T  | 1,2,4-Trimethy...     | 2.828          | 3.020 | 3.254 | 3.111 | 3.248 | 3.181 | 3.107 | 5.24  |
| 85) | T  | sec-Butylbenzene      | 3.495          | 3.877 | 4.062 | 3.845 | 4.019 | 3.975 | 3.879 | 5.30  |
| 86) | T  | p-Isopropyltol...     | 3.102          | 3.058 | 3.297 | 3.129 | 3.315 | 3.281 | 3.197 | 3.53  |
| 87) | T  | 1,3-Dichlorobe...     | 1.891          | 1.694 | 1.774 | 1.658 | 1.716 | 1.680 | 1.736 | 4.93  |
| 88) | T  | 1,4-Dichlorobe...     | 1.888          | 1.844 | 1.795 | 1.655 | 1.729 | 1.690 | 1.767 | 5.15  |
| 89) | T  | n-Butylbenzene        | 3.007          | 3.011 | 3.243 | 3.098 | 3.257 | 3.257 | 3.145 | 3.87  |
| 90) | T  | Hexachloroethane      | 0.497          | 0.488 | 0.500 | 0.530 | 0.583 | 0.595 | 0.532 | 8.70  |
| 91) | T  | 1,2-Dichlorobe...     | 1.777          | 1.618 | 1.722 | 1.568 | 1.644 | 1.594 | 1.654 | 4.85  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.284          | 0.287 | 0.330 | 0.313 | 0.323 | 0.326 | 0.310 | 6.51  |
| 93) | T  | 1,2,4-Trichlor...     | 1.161          | 0.977 | 1.116 | 1.060 | 1.083 | 1.079 | 1.079 | 5.69  |
| 94) | T  | Hexachlorobuta...     | 0.489          | 0.419 | 0.450 | 0.419 | 0.437 | 0.432 | 0.441 | 5.92  |
| 95) | T  | Naphthalene           | 3.102          | 3.182 | 3.661 | 3.501 | 3.639 | 3.610 | 3.449 | 7.12  |
| 96) | T  | 1,2,3-Trichlor...     | 0.995          | 0.990 | 1.065 | 1.010 | 1.047 | 1.050 | 1.026 | 3.11  |

(#) = Out of Range

## trans-1,4-Dichloro-2-butene

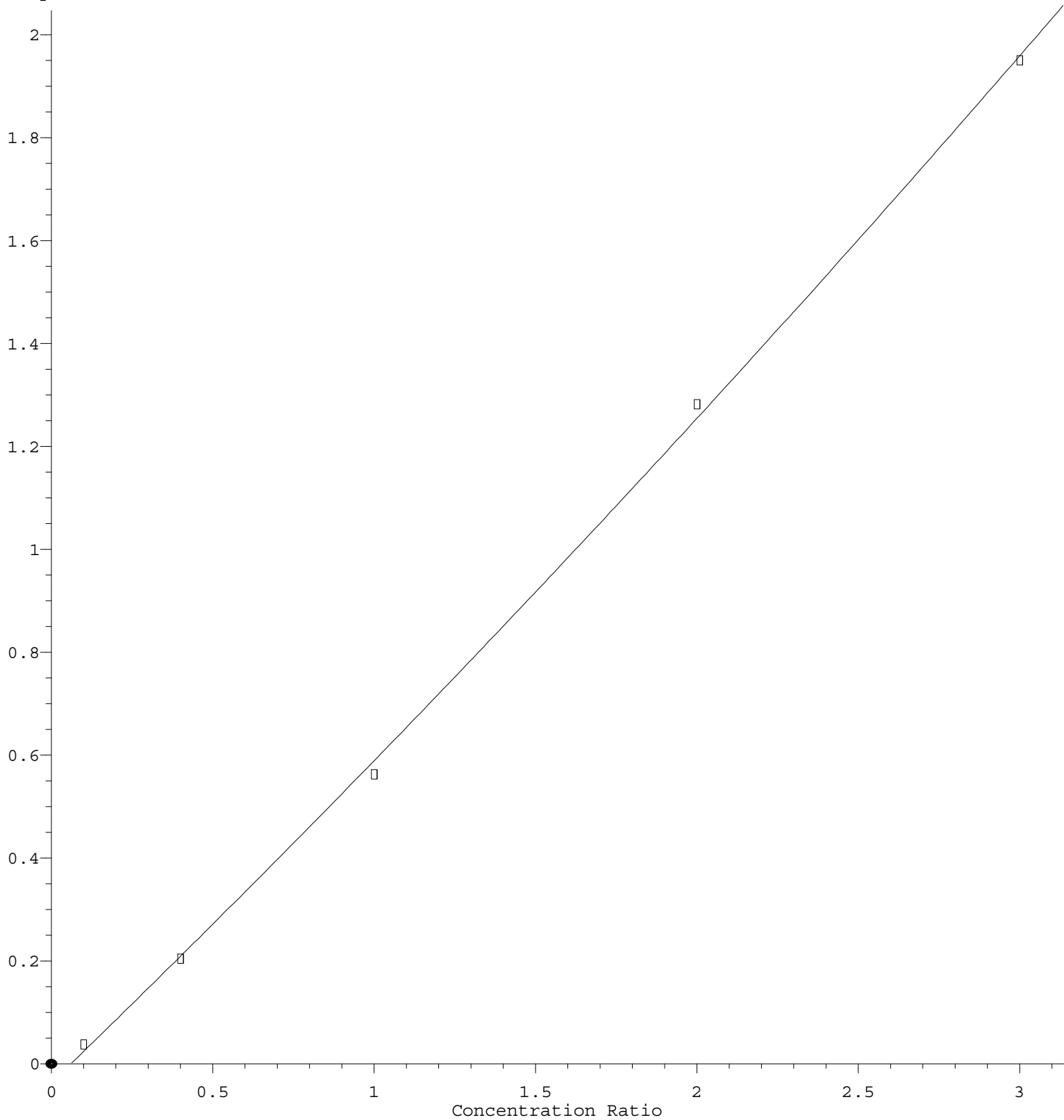
Response Ratio



$R = 1.512e-002 A^2 + 3.661e-001 A - 1.662e-002$   
Coef of Det ( $r^2$ ) = 0.998948    Curve Fit: Quadratic  
Method Name:    Z:\voasrv\HPCHEM1\MSVOA X\Method\82X022624W.M  
Calibration Table Last Updated: Tue Feb 27 05:01:33 2024

## Methyl Iodide

Response Ratio



$R = 1.972e-002 A^2 + 6.061e-001 A - 3.650e-002$   
Coef of Det ( $r^2$ ) = 0.999323    Curve Fit: Quadratic  
Method Name:    Z:\voasrv\HPCHEM1\MSVOA X\Method\82X022624W.M  
Calibration Table Last Updated: Tue Feb 27 05:01:33 2024