

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\  
 Method File : 82N101722W.M  
 Title : SW846 8260  
 Last Update : Mon Oct 17 16:03:54 2022  
 Response Via : Initial Calibration

## Calibration Files

1 =VN074917.D 5 =VN074916.D 20 =VN074912.D 50 =VN074913.D 100 =VN074914.D 10 =VN074911.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 10    | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 1.078          | 1.000 | 0.912 | 0.821 | 0.931 | 0.950 | 0.949 | 9.13  |
| 3) P   | Chloromethane       | 2.142          | 1.629 | 1.439 | 1.177 | 1.275 | 1.579 | 1.540 | 22.20 |
| 4) C   | Vinyl Chloride      | 2.188          | 2.368 | 2.061 | 1.816 | 1.889 | 2.123 | 2.074 | 9.71# |
| 5) T   | Bromomethane        |                | 2.291 | 1.385 | 1.482 | 1.416 | 1.496 | 1.614 | 23.61 |
| 6) T   | Chloroethane        | 1.890          | 1.767 | 1.495 | 1.361 | 1.406 | 1.637 | 1.593 | 13.13 |
| 7) T   | Trichlorofluor...   | 1.624          | 1.648 | 1.404 | 1.233 | 1.327 | 1.448 | 1.447 | 11.30 |
| 8) T   | Diethyl Ether       | 0.728          | 0.681 | 0.588 | 0.571 | 0.647 | 0.648 | 0.644 | 9.04  |
| 9) T   | 1,1,2-Trichlor...   | 0.767          | 0.955 | 0.839 | 0.736 | 0.823 | 0.928 | 0.841 | 10.28 |
| 10) T  | Methyl Iodide       |                | 1.200 | 1.061 | 1.038 | 1.188 | 1.177 | 1.133 | 6.76  |
| 11) T  | Tert butyl alc...   |                | 0.307 | 0.285 | 0.260 | 0.295 | 0.288 | 0.287 | 5.98  |
| 12) CM | 1,1-Dichloroet...   | 0.908          | 0.938 | 0.755 | 0.749 | 0.815 | 0.849 | 0.836 | 9.34# |
| 13) T  | Acrolein            |                | 0.308 | 0.274 | 0.260 | 0.291 | 0.282 | 0.283 | 6.35  |
| 14) T  | Allyl chloride      | 1.485          | 1.794 | 1.422 | 1.557 | 1.793 | 1.658 | 1.618 | 9.69  |
| 15) T  | Acrylonitrile       | 0.696          | 0.820 | 0.758 | 0.705 | 0.784 | 0.740 | 0.750 | 6.29  |
| 16) T  | Acetone             | 0.639          | 0.643 | 0.611 | 0.557 | 0.613 | 0.657 | 0.620 | 5.75  |
| 17) T  | Carbon Disulfide    | 2.312          | 2.559 | 1.933 | 1.837 | 2.071 | 2.014 | 2.121 | 12.62 |
| 18) T  | Methyl Acetate      | 3.144          | 2.705 | 2.296 | 2.039 | 2.325 | 2.425 | 2.489 | 15.53 |
| 19) T  | Methyl tert-bu...   | 2.867          | 3.594 | 3.284 | 3.105 | 3.553 | 3.233 | 3.273 | 8.38  |
| 20) T  | Methylene Chlo...   | 1.796          | 1.410 | 1.068 | 0.993 | 1.109 | 1.134 | 1.252 | 24.14 |
| 21) T  | trans-1,2-Dich...   | 1.132          | 1.034 | 0.869 | 0.805 | 0.940 | 0.874 | 0.942 | 12.86 |
| 22) T  | Diisopropyl ether   | 3.455          | 3.828 | 3.606 | 3.491 | 3.953 | 3.704 | 3.673 | 5.29  |
| 23) T  | Vinyl Acetate       | 2.286          | 2.778 | 2.534 | 2.544 | 2.965 | 2.523 | 2.605 | 9.03  |
| 24) P  | 1,1-Dichloroet...   | 2.074          | 2.067 | 1.875 | 1.828 | 2.017 | 2.041 | 1.984 | 5.31  |
| 25) T  | 2-Butanone          | 0.960          | 1.120 | 1.024 | 0.981 | 1.081 | 1.029 | 1.033 | 5.81  |
| 26) T  | 2,2-Dichloropr...   | 1.880          | 1.779 | 1.484 | 1.400 | 1.623 | 1.567 | 1.622 | 11.12 |
| 27) T  | cis-1,2-Dichlo...   | 1.153          | 1.343 | 1.133 | 1.073 | 1.180 | 1.169 | 1.175 | 7.70  |
| 28) T  | Bromochloromet...   | 1.017          | 0.781 | 1.007 | 0.986 | 1.064 | 0.948 | 0.967 | 10.21 |
| 29) T  | Tetrahydrofuran     | 0.722          | 0.726 | 0.683 | 0.668 | 0.746 | 0.673 | 0.703 | 4.64  |
| 30) C  | Chloroform          | 1.820          | 2.079 | 1.902 | 1.812 | 2.042 | 1.918 | 1.929 | 5.75# |
| 31) T  | Cyclohexane         |                | 1.980 | 1.622 | 1.507 | 1.713 | 1.708 | 1.706 | 10.22 |
| 32) T  | 1,1,1-Trichlor...   | 1.459          | 1.919 | 1.586 | 1.527 | 1.747 | 1.561 | 1.633 | 10.38 |
| 33) S  | 1,2-Dichloroet...   |                | 1.345 | 1.288 | 1.231 | 1.338 | 1.393 | 1.319 | 4.68  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   |                | 0.543 | 0.553 | 0.533 | 0.591 | 0.592 | 0.562 | 4.89  |
| 36) T  | 1,1-Dichloropr...   | 0.714          | 0.827 | 0.707 | 0.704 | 0.783 | 0.694 | 0.738 | 7.34  |
| 37) T  | Ethyl Acetate       | 1.007          | 0.969 | 1.104 | 1.038 | 1.197 | 1.084 | 1.066 | 7.56  |
| 38) T  | Carbon Tetrach...   | 0.814          | 0.764 | 0.710 | 0.698 | 0.787 | 0.710 | 0.747 | 6.42  |
| 39) T  | Methylcyclohexane   | 0.876          | 1.025 | 0.902 | 0.853 | 0.974 | 0.828 | 0.910 | 8.29  |
| 40) TM | Benzene             | 2.388          | 2.604 | 2.411 | 2.256 | 2.544 | 2.424 | 2.438 | 5.02  |
| 41) T  | Methacrylonitrile   | 0.624          | 0.624 | 0.596 | 0.546 | 0.635 | 0.574 | 0.600 | 5.75  |
| 42) TM | 1,2-Dichloroet...   | 0.912          | 0.887 | 0.810 | 0.782 | 0.874 | 0.796 | 0.844 | 6.43  |
| 43) T  | Isopropyl Acetate   | 1.677          | 1.849 | 1.748 | 1.678 | 1.881 | 1.764 | 1.766 | 4.82  |
| 44) TM | Trichloroethene     | 0.560          | 0.529 | 0.513 | 0.469 | 0.547 | 0.506 | 0.521 | 6.27  |
| 45) C  | 1,2-Dichloropr...   | 0.632          | 0.773 | 0.650 | 0.626 | 0.693 | 0.677 | 0.675 | 8.07# |
| 46) T  | Dibromomethane      | 0.425          | 0.464 | 0.435 | 0.395 | 0.459 | 0.416 | 0.432 | 6.07  |
| 47) T  | Bromodichlorom...   | 0.617          | 0.846 | 0.840 | 0.815 | 0.916 | 0.822 | 0.809 | 12.45 |
| 48) T  | Methyl methacr...   | 0.774          | 0.867 | 0.833 | 0.742 | 0.863 | 0.779 | 0.810 | 6.41  |
| 49) T  | 1,4-Dioxane         | 0.014          | 0.015 | 0.016 | 0.015 | 0.016 | 0.016 | 0.015 | 6.89  |
| 50) S  | Toluene-d8          |                | 2.201 | 2.312 | 2.249 | 2.504 | 2.388 | 2.331 | 5.13  |
| 51) T  | 4-Methyl-2-Pen...   | 1.033          | 1.135 | 1.171 | 1.117 | 1.280 | 1.127 | 1.144 | 7.07  |
| 52) CM | Toluene             | 1.362          | 1.620 | 1.460 | 1.434 | 1.678 | 1.406 | 1.493 | 8.45# |
| 53) T  | t-1,3-Dichloro...   | 0.854          | 0.910 | 0.898 | 0.919 | 1.082 | 0.830 | 0.916 | 9.66  |
| 54) T  | cis-1,3-Dichlo...   | 0.944          | 1.016 | 0.961 | 0.951 | 1.111 | 0.952 | 0.989 | 6.59  |
| 55) T  | 1,1,2-Trichlor...   | 0.543          | 0.692 | 0.624 | 0.598 | 0.673 | 0.651 | 0.630 | 8.62  |
| 56) T  | Ethyl methacry...   | 0.874          | 1.017 | 1.020 | 1.006 | 1.174 | 0.964 | 1.009 | 9.66  |

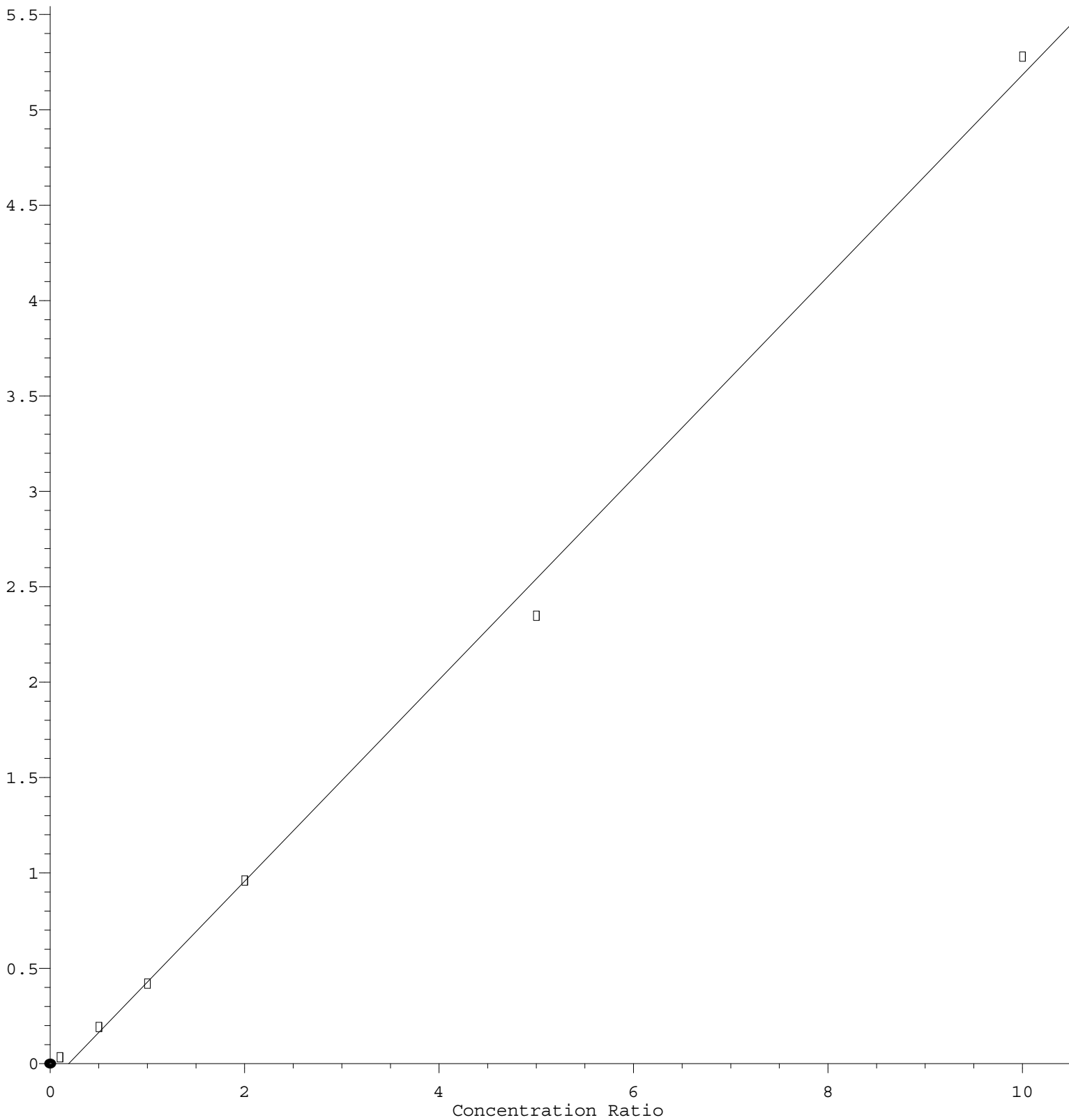
Method Path : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\  
 Method File : 82N101722W.M

|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 1.137          | 1.167 | 1.068 | 1.043 | 1.183 | 1.112 | 1.118 | 4.89  |
| 58) | T  | 2-Chloroethyl ...     | 0.334          | 0.384 | 0.480 | 0.470 | 0.528 | 0.420 | 0.436 | 16.19 |
| 59) | T  | 2-Hexanone            | 0.721          | 0.879 | 0.890 | 0.843 | 0.968 | 0.841 | 0.857 | 9.45  |
| 60) | T  | Dibromochlorom...     | 0.466          | 0.610 | 0.612 | 0.607 | 0.714 | 0.568 | 0.596 | 13.45 |
| 61) | T  | 1,2-Dibromoethane     | 0.586          | 0.663 | 0.628 | 0.594 | 0.682 | 0.560 | 0.619 | 7.67  |
| 62) | S  | 4-Bromofluorob...     |                | 0.609 | 0.649 | 0.700 | 0.834 | 0.596 | 0.677 | 14.23 |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.376          | 0.418 | 0.352 | 0.344 | 0.371 | 0.358 | 0.370 | 7.19  |
| 65) | PM | Chlorobenzene         | 1.490          | 1.658 | 1.359 | 1.310 | 1.474 | 1.324 | 1.436 | 9.22  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.496          | 0.523 | 0.495 | 0.495 | 0.549 | 0.498 | 0.509 | 4.36  |
| 67) | C  | Ethyl Benzene         | 2.321          | 2.958 | 2.548 | 2.501 | 2.827 | 2.510 | 2.611 | 9.02# |
| 68) | T  | m/p-Xylenes           | 0.865          | 1.066 | 0.956 | 0.960 | 1.097 | 0.907 | 0.975 | 9.22  |
| 69) | T  | o-Xylene              | 0.848          | 1.090 | 0.968 | 0.975 | 1.105 | 0.958 | 0.991 | 9.60  |
| 70) | T  | Styrene               | 1.347          | 1.540 | 1.512 | 1.603 | 1.933 | 1.411 | 1.558 | 13.20 |
| 71) | P  | Bromoform             | 0.346          | 0.390 | 0.347 | 0.374 | 0.465 | 0.328 | 0.375 | 13.13 |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 4.014          | 5.381 | 4.992 | 4.320 | 4.715 | 5.154 | 4.763 | 10.90 |
| 74) | T  | N-ethyl acetate       | 2.370          | 3.096 | 2.739 | 2.304 | 2.488 | 2.799 | 2.633 | 11.41 |
| 75) | P  | 1,1,2,2-Tetrac...     | 1.837          | 2.167 | 1.839 | 1.523 | 1.563 | 1.982 | 1.819 | 13.50 |
| 76) | T  | 1,2,3-Trichlor...     | 1.293          | 1.507 | 1.550 | 1.329 | 1.364 | 1.436 | 1.413 | 7.21  |
| 77) | T  | Bromobenzene          | 1.236          | 1.191 | 0.982 | 0.886 | 0.948 | 0.995 | 1.040 | 13.51 |
| 78) | T  | n-propylbenzene       | 5.159          | 6.059 | 5.670 | 5.200 | 5.588 | 5.491 | 5.528 | 6.00  |
| 79) | T  | 2-Chlorotoluene       | 3.980          | 3.993 | 3.266 | 2.879 | 3.159 | 3.294 | 3.429 | 13.31 |
| 80) | T  | 1,3,5-Trimethy...     | 3.517          | 4.570 | 4.017 | 3.573 | 3.913 | 3.869 | 3.910 | 9.68  |
| 81) | T  | trans-1,4-Dich...     |                | 0.672 | 0.584 | 0.533 | 0.597 | 0.552 | 0.588 | 9.11  |
| 82) | T  | 4-Chlorotoluene       | 2.902          | 3.482 | 2.886 | 2.759 | 3.072 | 2.975 | 3.013 | 8.36  |
| 83) | T  | tert-Butylbenzene     | 3.632          | 4.082 | 3.588 | 3.140 | 3.381 | 3.647 | 3.578 | 8.77  |
| 84) | T  | 1,2,4-Trimethy...     | 3.343          | 4.200 | 3.869 | 3.480 | 3.840 | 3.783 | 3.753 | 8.12  |
| 85) | T  | sec-Butylbenzene      | 4.382          | 5.440 | 4.937 | 4.624 | 5.061 | 4.969 | 4.902 | 7.46  |
| 86) | T  | p-Isopropyltol...     | 3.362          | 3.952 | 3.815 | 3.567 | 4.050 | 3.568 | 3.719 | 7.08  |
| 87) | T  | 1,3-Dichlorobe...     | 1.629          | 1.905 | 1.708 | 1.618 | 1.802 | 1.653 | 1.719 | 6.61  |
| 88) | T  | 1,4-Dichlorobe...     | 2.088          | 2.040 | 1.684 | 1.540 | 1.761 | 1.785 | 1.816 | 11.60 |
| 89) | T  | n-Butylbenzene        | 2.959          | 3.212 | 3.071 | 2.981 | 3.464 | 2.885 | 3.095 | 6.86  |
| 90) | T  | Hexachloroethane      | 0.724          | 0.900 | 0.726 | 0.681 | 0.743 | 0.833 | 0.768 | 10.67 |
| 91) | T  | 1,2-Dichlorobe...     | 1.694          | 1.970 | 1.670 | 1.538 | 1.707 | 1.723 | 1.717 | 8.20  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.302          | 0.310 | 0.297 | 0.270 | 0.279 | 0.316 | 0.296 | 6.01  |
| 93) | T  | 1,2,4-Trichlor...     | 0.845          | 0.875 | 0.810 | 0.698 | 0.808 | 0.787 | 0.804 | 7.51  |
| 94) | T  | Hexachlorobuta...     | 0.416          | 0.447 | 0.342 | 0.333 | 0.359 | 0.405 | 0.384 | 11.92 |
| 95) | T  | Naphthalene           | 3.879          | 3.761 | 3.349 | 3.003 | 3.423 | 3.377 | 3.465 | 9.08  |
| 96) | T  | 1,2,3-Trichlor...     | 0.947          | 0.885 | 0.787 | 0.746 | 0.831 | 0.838 | 0.839 | 8.48  |

(#) = Out of Range

# 2-Chloroethyl Vinyl ether

Response Ratio



$$\text{Response} = 5.282\text{e-}001 * \text{Amt} - 9.894\text{e-}002$$

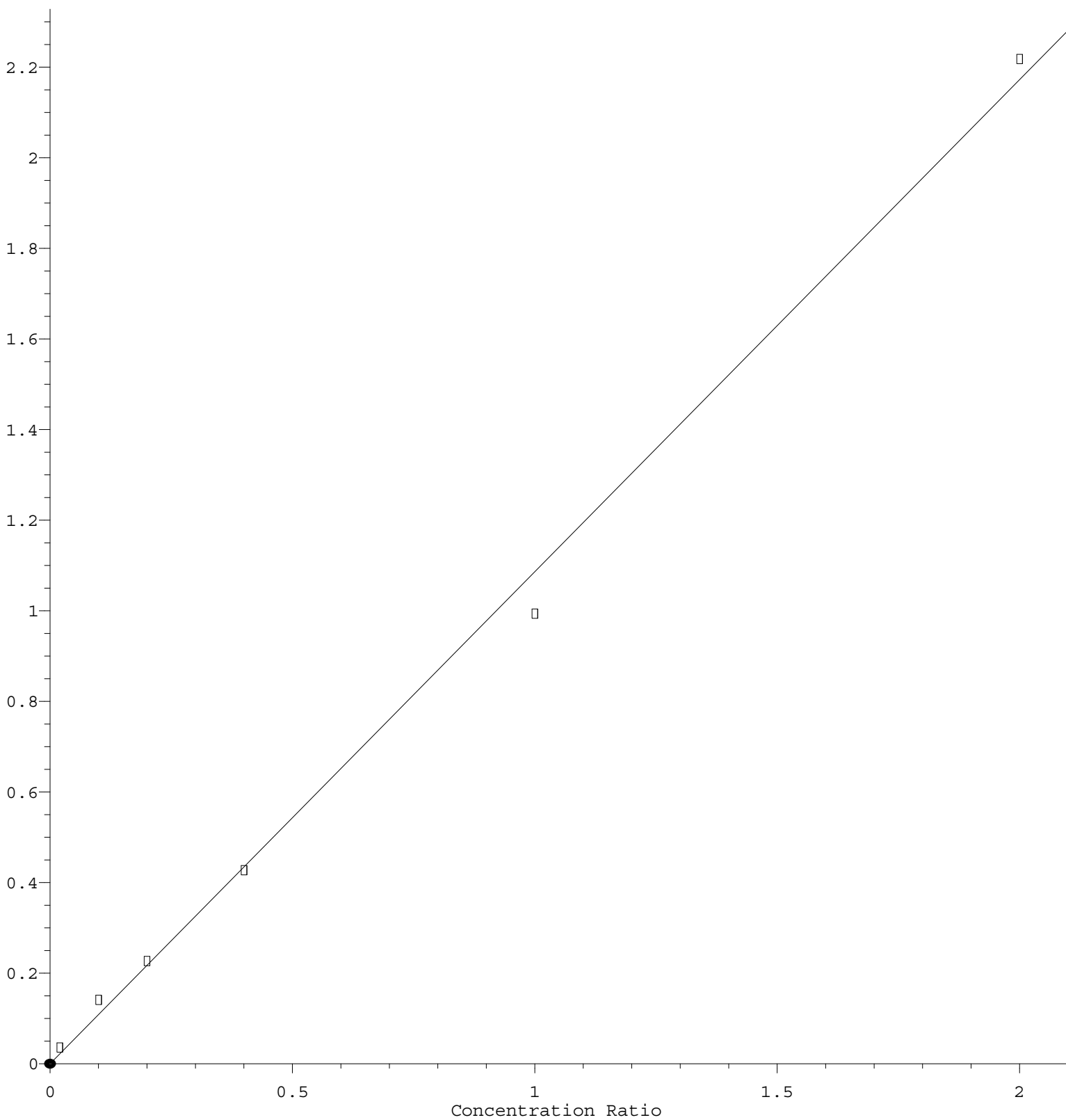
Coef of Det ( $r^2$ ) = 0.997345 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N101722W.M

Calibration Table Last Updated: Mon Oct 17 16:03:54 2022

# Methylene Chloride

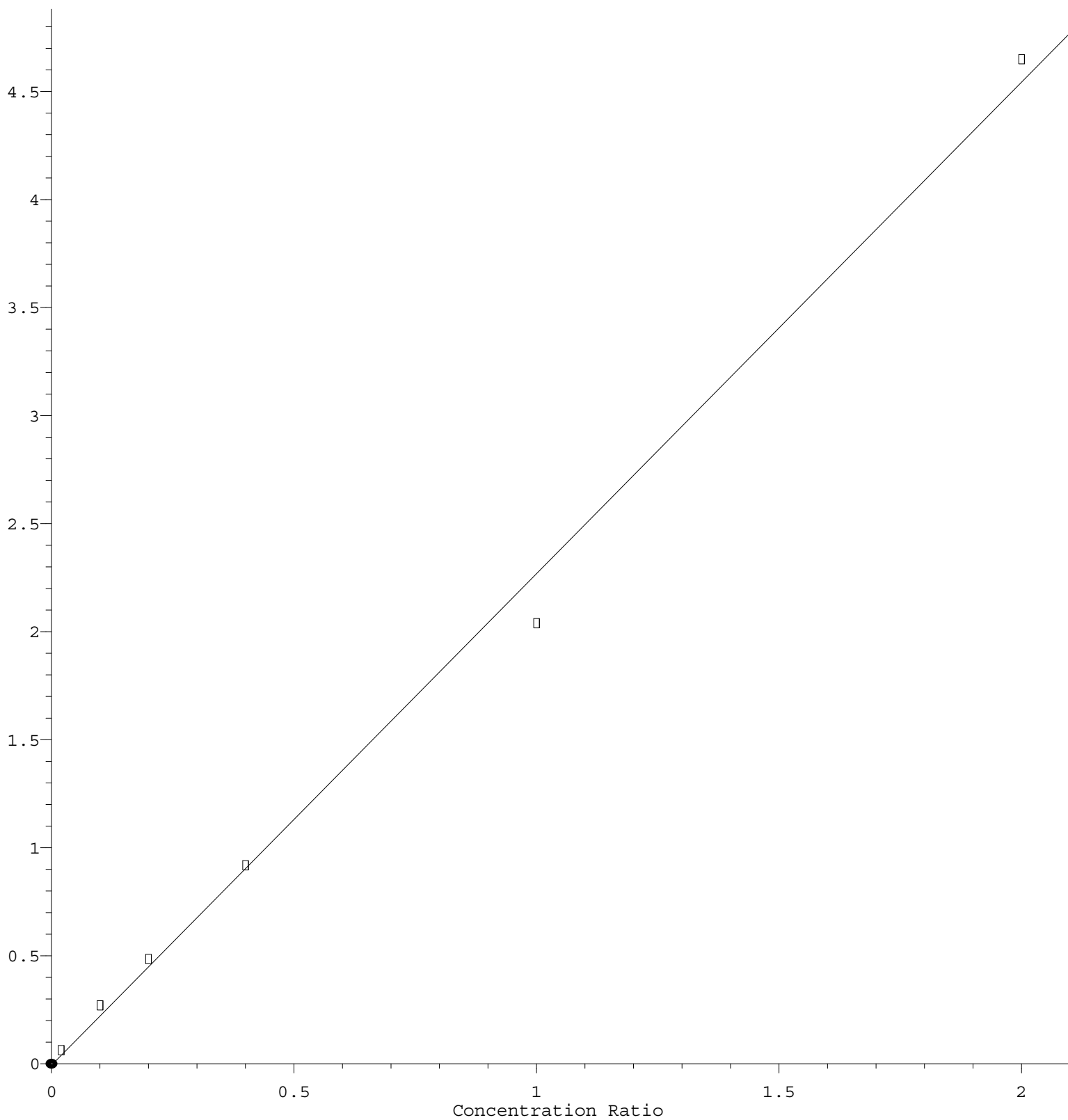
Response Ratio



Response = 1.086e+000 \* Amt + 2.886e-004  
Coef of Det (r^2) = 0.996489 Curve Fit: Linear  
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N101722W.M  
Calibration Table Last Updated: Mon Oct 17 16:03:54 2022

## Methyl Acetate

Response Ratio



$$\text{Response} = 2.275\text{e}+000 * \text{Amt} - 6.355\text{e}-003$$

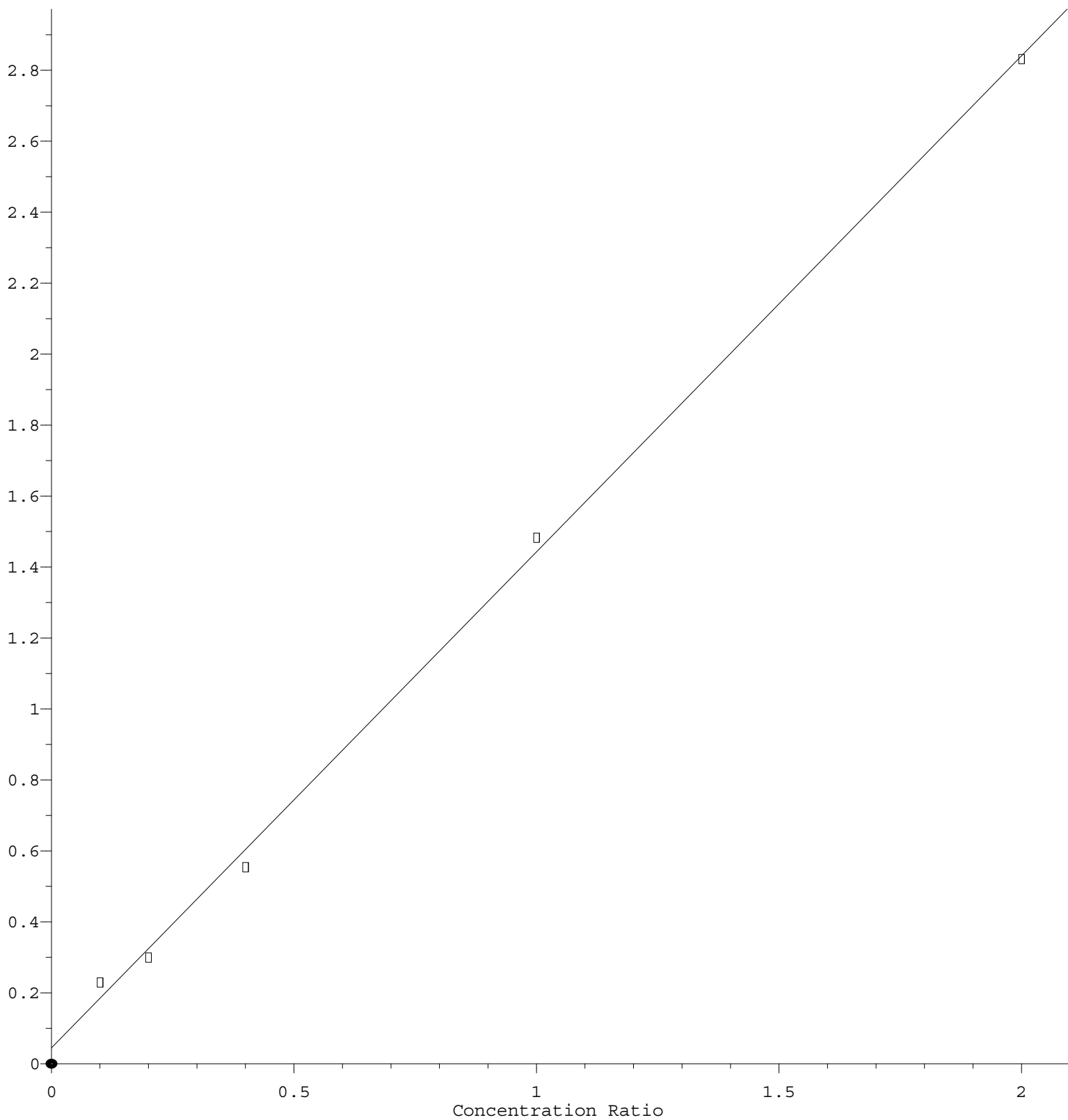
Coef of Det ( $r^2$ ) = 0.995465 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N101722W.M

Calibration Table Last Updated: Mon Oct 17 16:03:54 2022

# Bromomethane

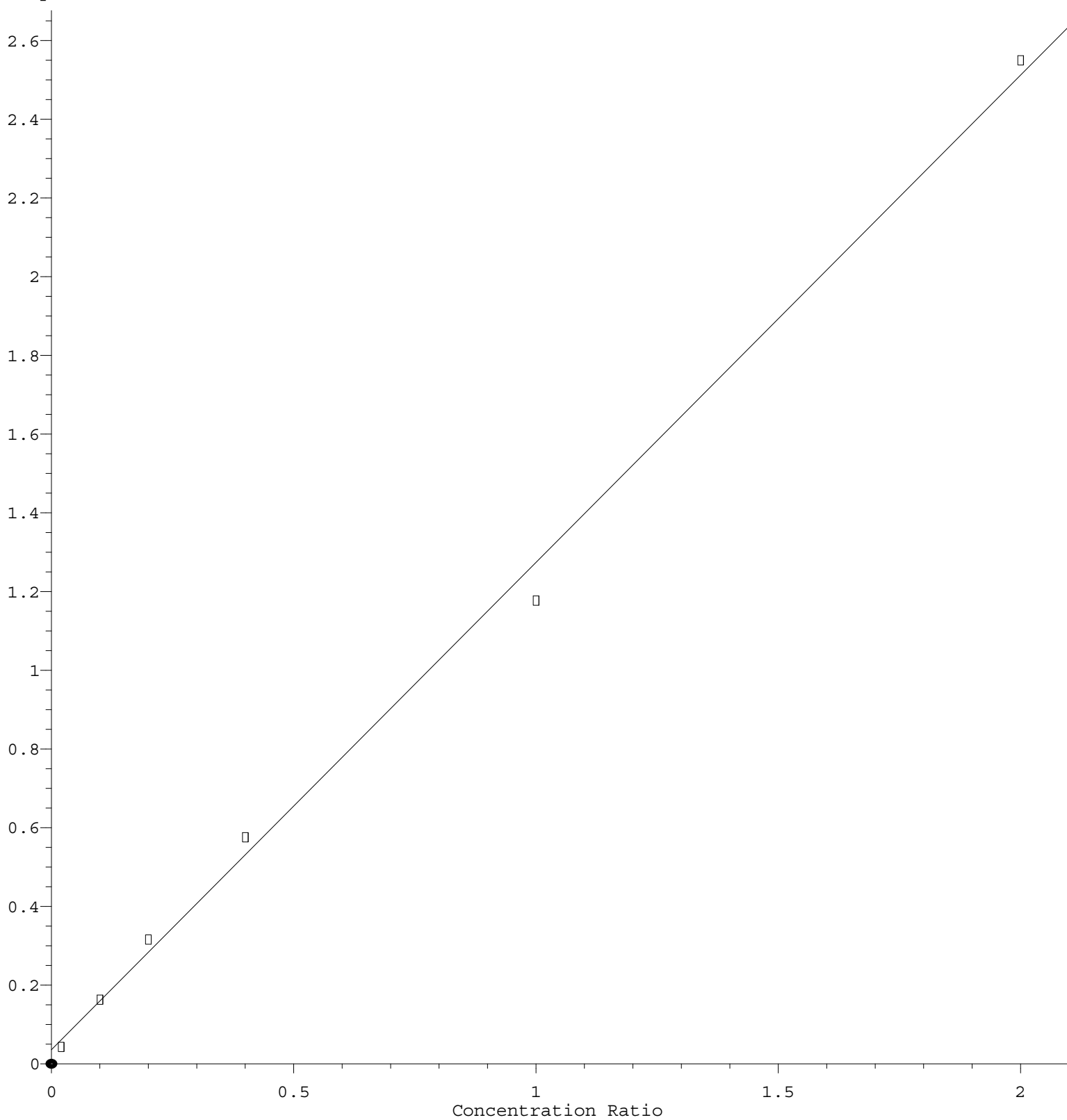
Response Ratio



Response = 1.398e+000 \* Amt + 4.458e-002  
 Coef of Det (r^2) = 0.998603 Curve Fit: Linear  
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N101722W.M  
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## Chloromethane

Response Ratio



$$\text{Response} = 1.238\text{e}+000 * \text{Amt} + 3.629\text{e}-002$$

Coef of Det ( $r^2$ ) = 0.996827 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N101722W.M

Calibration Table Last Updated: Mon Oct 17 16:03:54 2022