

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X100522W.M  
 Title : SW846 8260  
 Last Update : Wed Oct 05 12:20:53 2022  
 Response Via : Initial Calibration

## Calibration Files

1 =VX031882.D 5 =VX031883.D 20 =VX031885.D 50 =VX031886.D 100 =VX031887.D 10 =VX031884.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 10    | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.533          | 0.541 | 0.608 | 0.572 | 0.577 | 0.642 | 0.579 | 7.10  |
| 3) P   | Chloromethane       | 0.543          | 0.541 | 0.535 | 0.472 | 0.438 | 0.543 | 0.512 | 8.88  |
| 4) C   | Vinyl Chloride      | 0.661          | 0.703 | 0.683 | 0.628 | 0.591 | 0.691 | 0.660 | 6.51# |
| 5) T   | Bromomethane        |                | 0.734 | 0.604 | 0.568 | 0.562 | 0.616 | 0.617 | 11.23 |
| 6) T   | Chloroethane        | 0.496          | 0.746 | 0.522 | 0.599 | 0.523 | 0.533 | 0.570 | 16.29 |
| 7) T   | Trichlorofluor...   | 1.436          | 1.497 | 1.373 | 1.280 | 1.205 | 1.435 | 1.371 | 8.01  |
| 8) T   | Diethyl Ether       | 0.523          | 0.488 | 0.460 | 0.412 | 0.391 | 0.481 | 0.459 | 10.79 |
| 9) T   | 1,1,2-Trichlor...   | 0.655          | 0.724 | 0.664 | 0.634 | 0.626 | 0.677 | 0.663 | 5.32  |
| 10) T  | Methyl Iodide       |                | 0.552 | 0.644 | 0.735 | 0.796 | 0.589 | 0.663 | 15.29 |
| 11) T  | Tert butyl alc...   |                | 0.154 | 0.108 | 0.098 | 0.080 | 0.118 | 0.112 | 24.62 |
| 12) CM | 1,1-Dichloroet...   | 0.708          | 0.648 | 0.626 | 0.594 | 0.588 | 0.605 | 0.628 | 7.11# |
| 13) T  | Acrolein            |                | 0.092 | 0.062 | 0.060 | 0.058 | 0.069 | 0.068 | 20.43 |
| 14) T  | Allyl chloride      | 0.596          | 0.671 | 0.676 | 0.652 | 0.636 | 0.681 | 0.652 | 4.92  |
| 15) T  | Acrylonitrile       | 0.285          | 0.302 | 0.283 | 0.267 | 0.248 | 0.286 | 0.279 | 6.69  |
| 16) T  | Acetone             | 0.233          | 0.247 | 0.222 | 0.199 | 0.182 | 0.227 | 0.218 | 10.83 |
| 17) T  | Carbon Disulfide    | 1.254          | 1.241 | 1.225 | 1.235 | 1.270 | 1.206 | 1.239 | 1.79  |
| 18) T  | Methyl Acetate      | 0.621          | 0.780 | 0.742 | 0.689 | 0.649 | 0.758 | 0.707 | 9.01  |
| 19) T  | Methyl tert-bu...   | 1.857          | 2.055 | 1.967 | 1.891 | 1.811 | 1.946 | 1.921 | 4.52  |
| 20) T  | Methylene Chlo...   | 0.909          | 0.771 | 0.681 | 0.636 | 0.619 | 0.695 | 0.718 | 14.94 |
| 21) T  | trans-1,2-Dich...   | 0.748          | 0.753 | 0.708 | 0.678 | 0.653 | 0.682 | 0.704 | 5.69  |
| 22) T  | Diisopropyl ether   | 1.526          | 1.639 | 1.573 | 1.469 | 1.380 | 1.594 | 1.530 | 6.13  |
| 23) T  | Vinyl Acetate       | 0.996          | 1.173 | 1.186 | 1.160 | 1.108 | 1.170 | 1.132 | 6.37  |
| 24) P  | 1,1-Dichloroet...   | 1.079          | 1.123 | 1.054 | 1.005 | 0.958 | 1.057 | 1.046 | 5.53  |
| 25) T  | 2-Butanone          | 0.352          | 0.384 | 0.356 | 0.332 | 0.303 | 0.358 | 0.347 | 7.87  |
| 26) T  | 2,2-Dichloropr...   | 0.712          | 0.808 | 0.803 | 0.817 | 0.825 | 0.773 | 0.789 | 5.32  |
| 27) T  | cis-1,2-Dichlo...   | 0.834          | 0.866 | 0.827 | 0.805 | 0.781 | 0.831 | 0.824 | 3.49  |
| 28) T  | Bromochloromet...   | 0.430          | 0.437 | 0.411 | 0.391 | 0.369 | 0.448 | 0.414 | 7.27  |
| 29) T  | Tetrahydrofuran     | 0.203          | 0.242 | 0.224 | 0.210 | 0.193 | 0.225 | 0.216 | 8.26  |
| 30) C  | Chloroform          | 1.298          | 1.397 | 1.275 | 1.233 | 1.166 | 1.329 | 1.283 | 6.19# |
| 31) T  | Cyclohexane         |                | 0.969 | 0.883 | 0.827 | 0.785 | 0.886 | 0.870 | 7.94  |
| 32) T  | 1,1,1-Trichlor...   | 1.072          | 1.154 | 1.165 | 1.142 | 1.104 | 1.137 | 1.129 | 3.07  |
| 33) S  | 1,2-Dichloroet...   |                | 0.844 | 0.770 | 0.692 | 0.643 | 0.817 | 0.753 | 11.20 |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   |                | 0.575 | 0.546 | 0.536 | 0.536 | 0.543 | 0.547 | 2.95  |
| 36) T  | 1,1-Dichloropr...   | 0.642          | 0.667 | 0.628 | 0.630 | 0.621 | 0.621 | 0.635 | 2.79  |
| 37) T  | Ethyl Acetate       | 0.503          | 0.532 | 0.481 | 0.496 | 0.468 | 0.463 | 0.491 | 5.20  |
| 38) T  | Carbon Tetrach...   | 0.723          | 0.744 | 0.742 | 0.778 | 0.782 | 0.717 | 0.748 | 3.59  |
| 39) T  | Methylcyclohexane   | 0.817          | 0.875 | 0.799 | 0.809 | 0.799 | 0.783 | 0.814 | 3.94  |
| 40) TM | Benzene             | 1.908          | 2.055 | 1.916 | 1.883 | 1.829 | 1.865 | 1.909 | 4.09  |
| 41) T  | Methacrylonitrile   | 0.235          | 0.252 | 0.261 | 0.258 | 0.252 | 0.263 | 0.254 | 4.00  |
| 42) TM | 1,2-Dichloroet...   | 0.605          | 0.685 | 0.645 | 0.623 | 0.602 | 0.645 | 0.634 | 4.87  |
| 43) T  | Isopropyl Acetate   | 0.675          | 0.745 | 0.771 | 0.783 | 0.779 | 0.738 | 0.749 | 5.40  |
| 44) TM | Trichloroethene     | 0.650          | 0.664 | 0.638 | 0.659 | 0.659 | 0.628 | 0.650 | 2.15  |
| 45) C  | 1,2-Dichloropr...   | 0.397          | 0.446 | 0.429 | 0.429 | 0.420 | 0.433 | 0.426 | 3.80# |
| 46) T  | Dibromomethane      | 0.367          | 0.387 | 0.376 | 0.379 | 0.372 | 0.377 | 0.376 | 1.79  |
| 47) T  | Bromodichlorom...   | 0.598          | 0.629 | 0.641 | 0.677 | 0.678 | 0.631 | 0.642 | 4.77  |
| 48) T  | Methyl methacr...   | 0.311          | 0.356 | 0.364 | 0.369 | 0.362 | 0.359 | 0.353 | 6.01  |
| 49) T  | 1,4-Dioxane         | 0.010          | 0.013 | 0.013 | 0.012 | 0.011 | 0.013 | 0.012 | 11.50 |
| 50) S  | Toluene-d8          |                | 1.961 | 1.978 | 1.932 | 1.875 | 1.944 | 1.938 | 2.03  |
| 51) T  | 4-Methyl-2-Pen...   | 0.472          | 0.535 | 0.525 | 0.505 | 0.477 | 0.508 | 0.504 | 4.98  |
| 52) CM | Toluene             | 1.367          | 1.427 | 1.338 | 1.353 | 1.302 | 1.324 | 1.352 | 3.20# |
| 53) T  | t-1,3-Dichloro...   | 0.478          | 0.516 | 0.590 | 0.665 | 0.691 | 0.536 | 0.579 | 14.67 |
| 54) T  | cis-1,3-Dichlo...   | 0.544          | 0.633 | 0.684 | 0.746 | 0.756 | 0.630 | 0.666 | 12.05 |
| 55) T  | 1,1,2-Trichlor...   | 0.551          | 0.566 | 0.566 | 0.559 | 0.539 | 0.556 | 0.556 | 1.81  |
| 56) T  | Ethyl methacry...   | 0.553          | 0.618 | 0.660 | 0.693 | 0.689 | 0.629 | 0.640 | 8.22  |

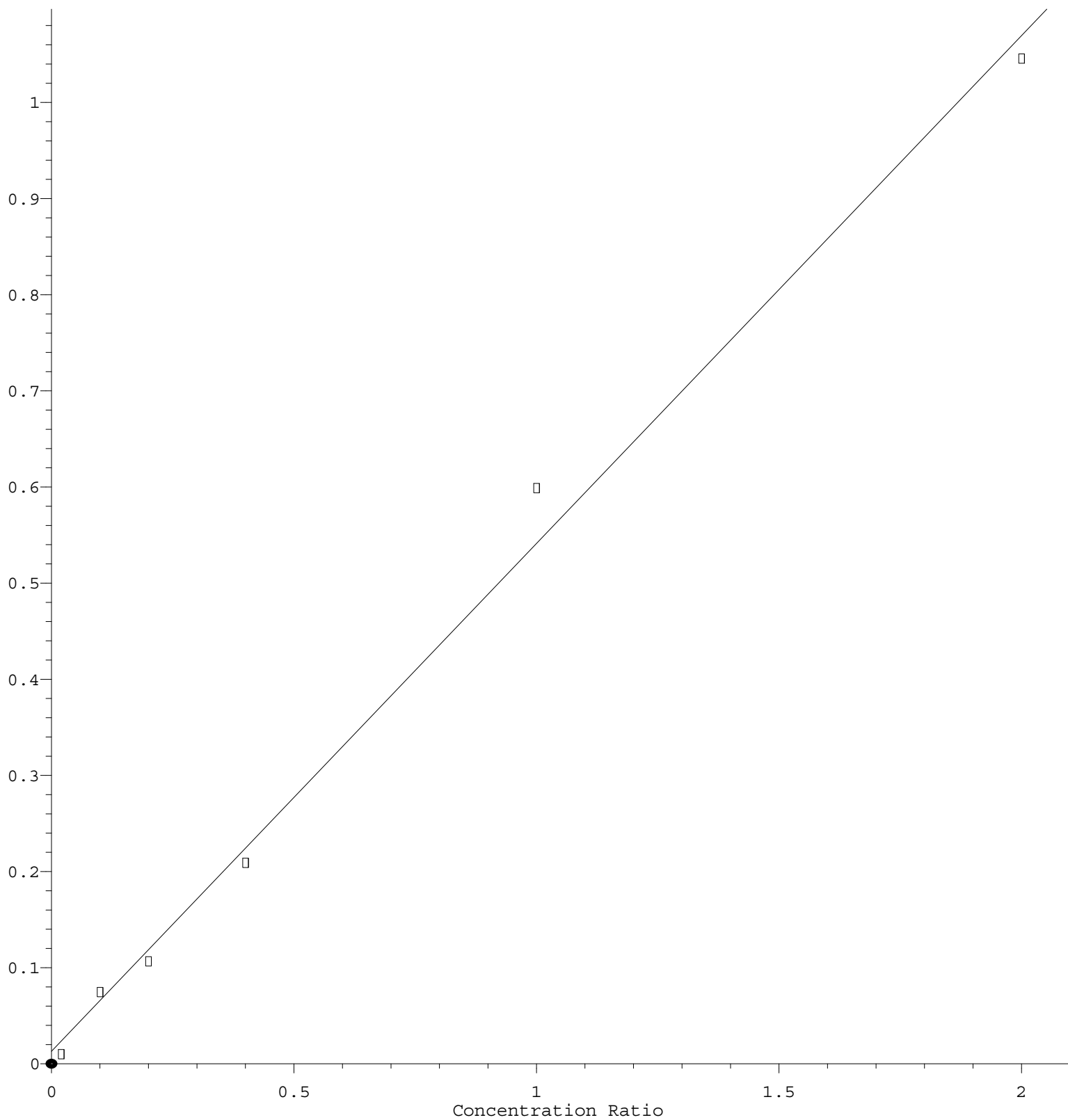
Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X100522W.M

|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.777          | 0.870 | 0.846 | 0.835 | 0.800 | 0.831 | 0.826 | 4.04  |
| 58) | T  | 2-Chloroethyl ...     | 0.267          | 0.322 | 0.329 | 0.334 | 0.329 | 0.345 | 0.321 | 8.50  |
| 59) | T  | 2-Hexanone            | 0.323          | 0.385 | 0.380 | 0.374 | 0.353 | 0.378 | 0.366 | 6.46  |
| 60) | T  | Dibromochlorom...     | 0.446          | 0.520 | 0.574 | 0.640 | 0.650 | 0.527 | 0.559 | 13.93 |
| 61) | T  | 1,2-Dibromoethane     | 0.525          | 0.596 | 0.613 | 0.616 | 0.607 | 0.585 | 0.590 | 5.72  |
| 62) | S  | 4-Bromofluorob...     | 0.671          | 0.713 | 0.702 | 0.686 | 0.714 | 0.697 |       | 2.63  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.575          | 0.641 | 0.595 | 0.641 | 0.626 | 0.611 | 0.615 | 4.31  |
| 65) | PM | Chlorobenzene         | 1.381          | 1.482 | 1.397 | 1.438 | 1.400 | 1.418 | 1.419 | 2.55  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.417          | 0.488 | 0.505 | 0.551 | 0.547 | 0.492 | 0.500 | 9.80  |
| 67) | C  | Ethyl Benzene         | 2.169          | 2.370 | 2.288 | 2.316 | 2.240 | 2.271 | 2.276 | 3.00# |
| 68) | T  | m/p-Xylenes           | 0.921          | 1.010 | 0.948 | 0.982 | 0.945 | 0.950 | 0.959 | 3.29  |
| 69) | T  | o-Xylene              | 0.896          | 0.986 | 0.939 | 0.972 | 0.938 | 0.928 | 0.943 | 3.39  |
| 70) | T  | Styrene               | 1.261          | 1.535 | 1.499 | 1.597 | 1.542 | 1.483 | 1.486 | 7.90  |
| 71) | P  | Bromoform             | 0.280          | 0.319 | 0.363 | 0.439 | 0.467 | 0.326 | 0.366 | 19.97 |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.282          | 3.593 | 3.240 | 3.243 | 3.237 | 3.331 | 3.321 | 4.16  |
| 74) | T  | N-amyl acetate        | 0.553          | 0.719 | 0.741 | 0.781 | 0.833 | 0.753 | 0.730 | 13.04 |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.933          | 1.029 | 0.887 | 0.885 | 0.882 | 0.928 | 0.924 | 6.08  |
| 76) | T  | 1,2,3-Trichlor...     | 0.778          | 0.753 | 0.771 | 0.913 | 0.759 | 0.796 | 0.795 | 7.52  |
| 77) | T  | Bromobenzene          | 0.825          | 0.969 | 0.889 | 0.907 | 0.944 | 0.883 | 0.903 | 5.58  |
| 78) | T  | n-propylbenzene       | 3.344          | 3.803 | 3.495 | 3.486 | 3.522 | 3.574 | 3.537 | 4.27  |
| 79) | T  | 2-Chlorotoluene       | 2.191          | 2.374 | 2.105 | 2.071 | 2.064 | 2.162 | 2.161 | 5.35  |
| 80) | T  | 1,3,5-Trimethy...     | 2.591          | 2.936 | 2.739 | 2.724 | 2.706 | 2.795 | 2.749 | 4.14  |
| 81) | T  | trans-1,4-Dich...     | 0.155          | 0.180 | 0.216 | 0.246 | 0.161 | 0.192 |       | 20.10 |
| 82) | T  | 4-Chlorotoluene       | 2.532          | 2.646 | 2.404 | 2.377 | 2.387 | 2.456 | 2.467 | 4.24  |
| 83) | T  | tert-Butylbenzene     | 2.553          | 2.910 | 2.760 | 2.823 | 2.814 | 2.786 | 2.774 | 4.31  |
| 84) | T  | 1,2,4-Trimethy...     | 2.501          | 2.982 | 2.710 | 2.714 | 2.733 | 2.834 | 2.746 | 5.78  |
| 85) | T  | sec-Butylbenzene      | 3.084          | 3.548 | 3.321 | 3.351 | 3.355 | 3.419 | 3.346 | 4.54  |
| 86) | T  | p-Isopropyltol...     | 2.689          | 3.070 | 2.981 | 3.042 | 3.021 | 2.939 | 2.957 | 4.71  |
| 87) | T  | 1,3-Dichlorobe...     | 1.677          | 1.794 | 1.668 | 1.701 | 1.738 | 1.652 | 1.705 | 3.11  |
| 88) | T  | 1,4-Dichlorobe...     | 1.823          | 1.873 | 1.702 | 1.729 | 1.731 | 1.686 | 1.757 | 4.21  |
| 89) | T  | n-Butylbenzene        | 1.962          | 2.279 | 2.189 | 2.254 | 2.321 | 2.194 | 2.200 | 5.78  |
| 90) | T  | Hexachloroethane      | 0.319          | 0.375 | 0.380 | 0.441 | 0.486 | 0.374 | 0.396 | 14.84 |
| 91) | T  | 1,2-Dichlorobe...     | 1.665          | 1.830 | 1.658 | 1.693 | 1.679 | 1.699 | 1.704 | 3.74  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.124          | 0.160 | 0.175 | 0.182 | 0.185 | 0.160 | 0.164 | 13.60 |
| 93) | T  | 1,2,4-Trichlor...     | 0.999          | 1.068 | 1.051 | 1.155 | 1.185 | 1.036 | 1.082 | 6.68  |
| 94) | T  | Hexachlorobuta...     | 0.395          | 0.439 | 0.424 | 0.473 | 0.500 | 0.413 | 0.441 | 8.89  |
| 95) | T  | Naphthalene           | 3.159          | 3.412 | 3.415 | 3.540 | 3.540 | 3.392 | 3.410 | 4.09  |
| 96) | T  | 1,2,3-Trichlor...     | 1.006          | 1.070 | 1.074 | 1.158 | 1.181 | 1.064 | 1.092 | 5.97  |

(#) = Out of Range

# Chloroethane

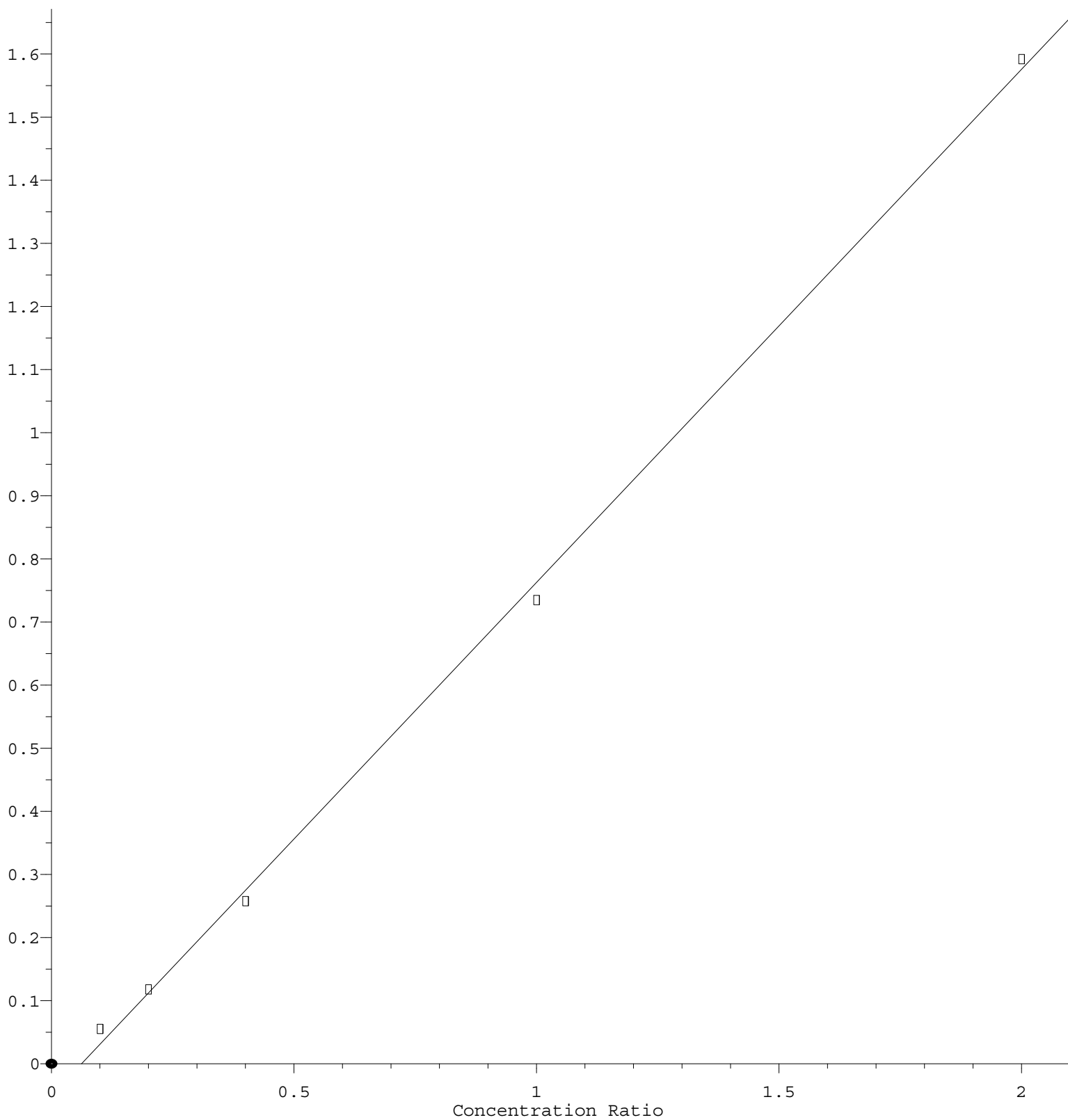
Response Ratio



Response = 5.286e-001 \* Amt + 1.300e-002  
Coef of Det (r^2) = 0.994444 Curve Fit: Linear  
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X100522W.M  
Calibration Table Last Updated: Wed Oct 05 12:20:53 2022

# Methyl Iodide

Response Ratio



$$\text{Response} = 8.132\text{e-}001 * \text{Amt} - 5.034\text{e-}002$$

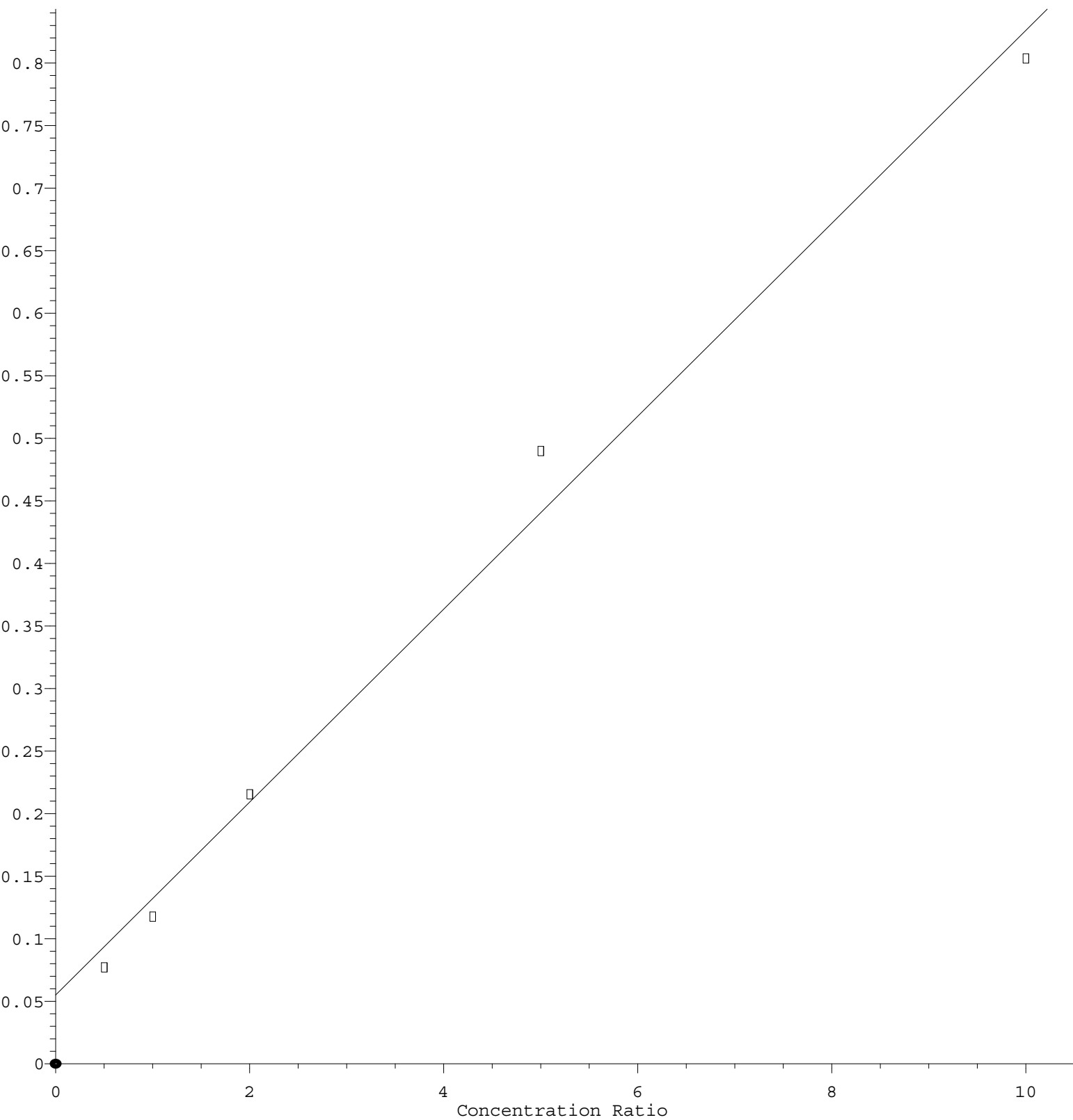
Coef of Det ( $r^2$ ) = 0.998808 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X100522W.M

Calibration Table Last Updated: Wed Oct 05 12:20:53 2022

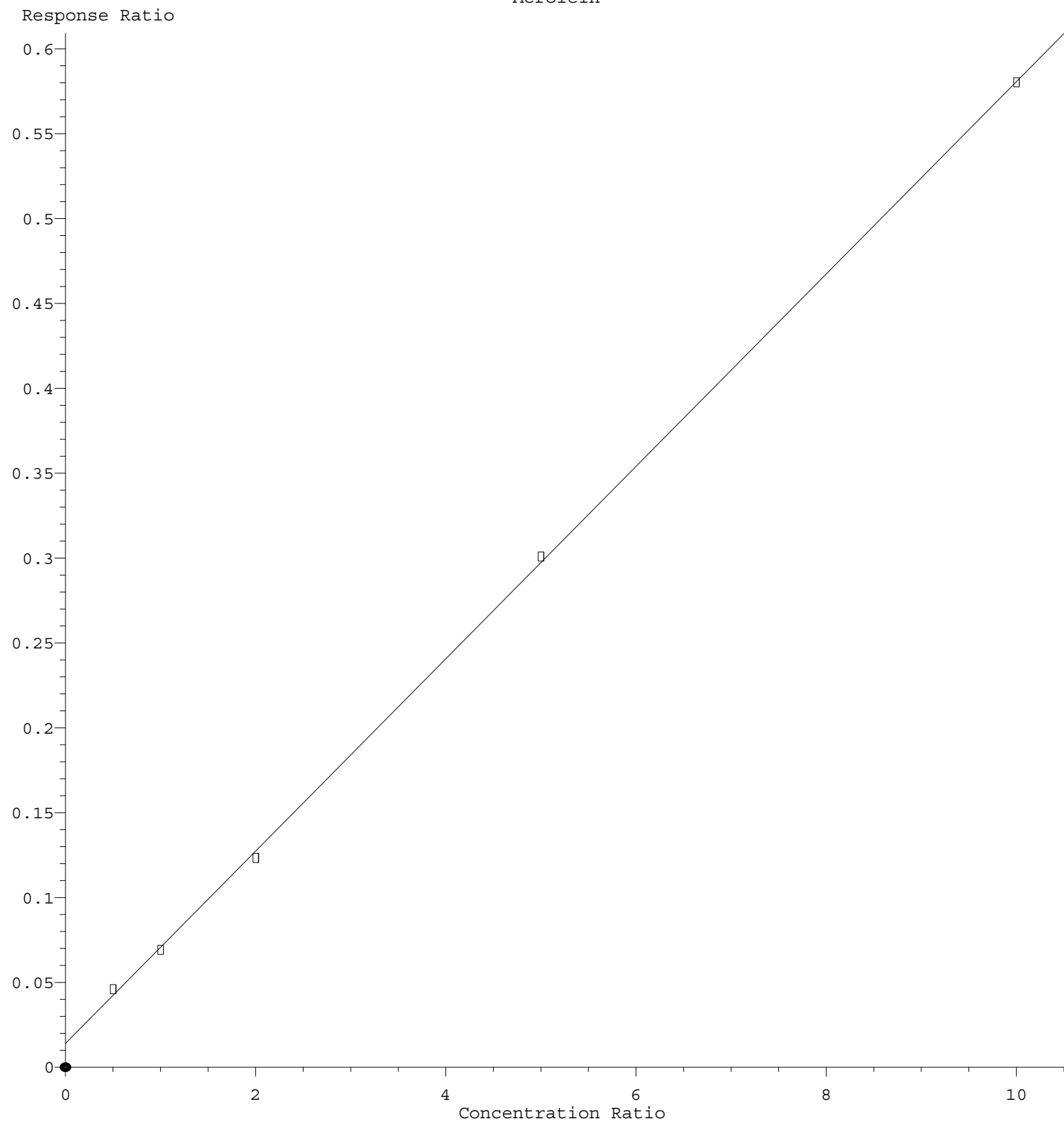
# Tert butyl alcohol

Response Ratio



Response =  $7.717e-002 * Amt + 5.512e-002$   
 Coef of Det ( $r^2$ ) = 0.990716    Curve Fit: Linear  
 Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X100522W.M  
 Calibration Table Last Updated: Wed Oct 05 12:20:53 2022

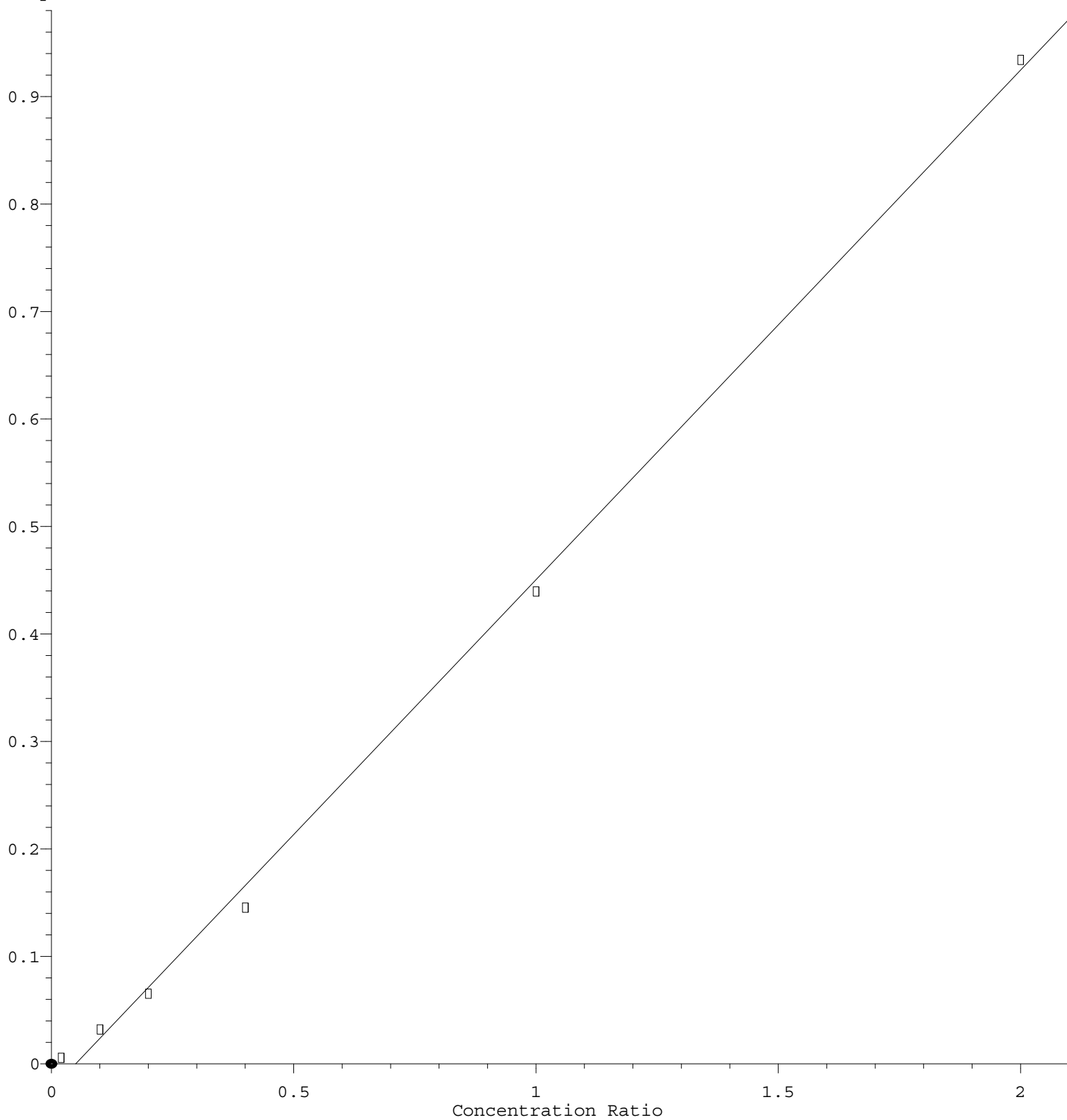
# Acrolein



Response = 5.669e-002 \* Amt + 1.416e-002  
 Coef of Det (r^2) = 0.999777 Curve Fit: Linear  
 Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X100522W.M  
 Calibration Table Last Updated: Wed Oct 05 12:20:53 2022

# Bromoform

Response Ratio



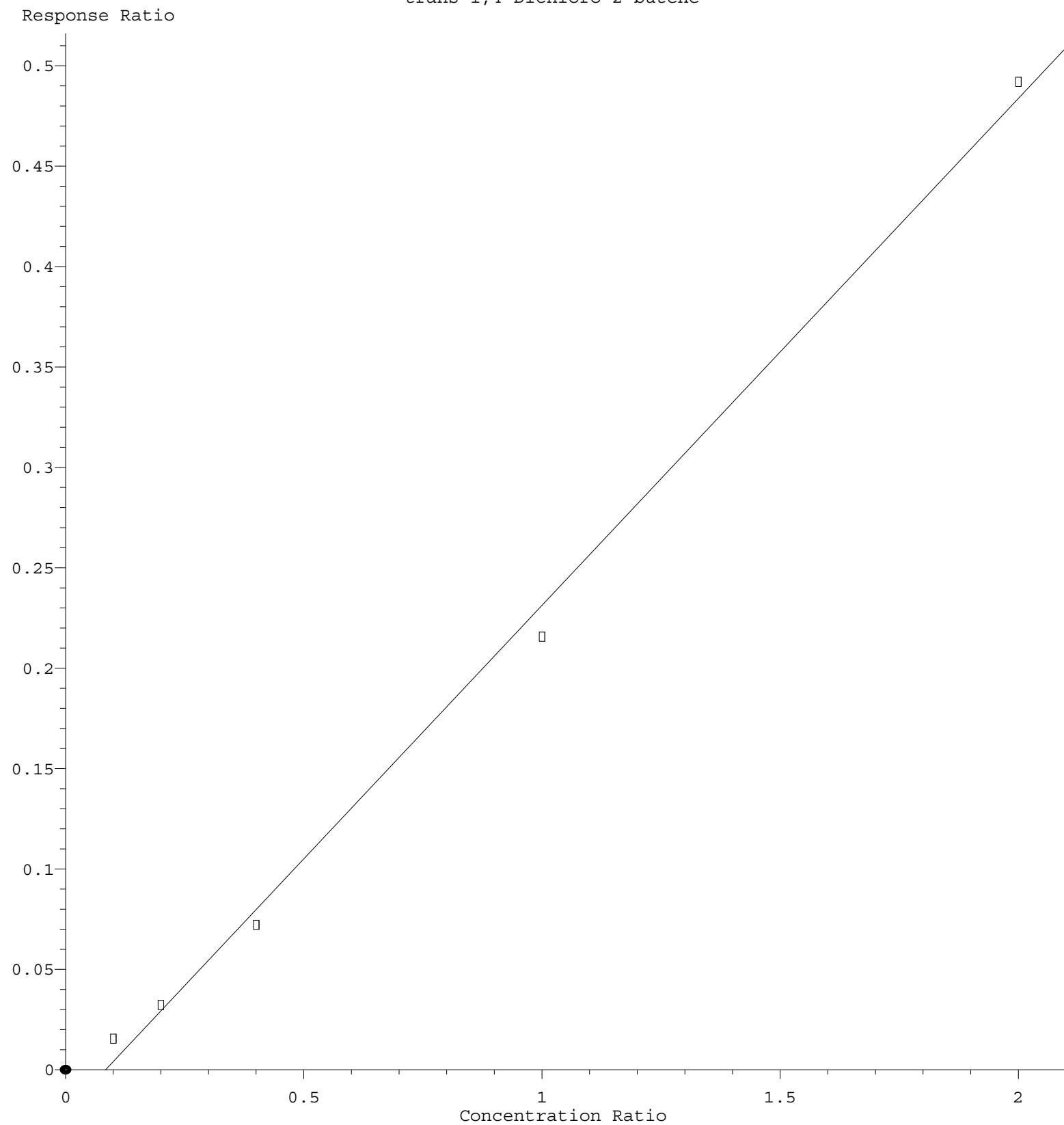
$$\text{Response} = 4.740\text{e-}001 * \text{Amt} - 2.362\text{e-}002$$

Coef of Det (r^2) = 0.998271 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X100522W.M

Calibration Table Last Updated: Wed Oct 05 12:20:53 2022

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



Response = 2.525e-001 \* Amt - 2.132e-002  
Coef of Det (r^2) = 0.996779 Curve Fit: Linear  
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X100522W.M  
Calibration Table Last Updated: Wed Oct 05 12:20:53 2022