

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X091922W.M
 Title : SW846 8260
 Last Update : Tue Sep 20 09:45:29 2022
 Response Via : Initial Calibration

Calibration Files

1 =VX031450.D 5 =VX031451.D 20 =VX031453.D 50 =VX031454.D 100 =VX031455.D 10 =VX031452.D

	Compound	1	5	20	50	100	10	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.703	0.724	0.677	0.822	0.748	0.639	0.719	8.81
3) P	Chloromethane	1.160	0.985	0.942	0.919	0.820	0.896	0.954	12.04
4) C	Vinyl Chloride	1.199	1.177	1.064	1.076	0.934	1.075	1.087	8.72#
5) T	Bromomethane		1.760	1.631	1.473	1.283	1.596	1.548	11.64
6) T	Chloroethane	1.471	1.472	1.103	0.999	0.897	1.098	1.174	20.70
7) T	Trichlorofluor...	2.731	2.668	2.521	2.322	2.199	2.360	2.467	8.45
8) T	Diethyl Ether	1.012	0.883	0.870	0.778	0.750	0.806	0.850	11.17
9) T	1,1,2-Trichlor...	0.774	0.887	0.857	0.763	0.711	0.839	0.805	8.26
10) T	Methyl Iodide		0.706	0.806	0.863	0.830	0.690	0.779	9.89
11) T	Tert butyl alc...		0.350	0.251	0.204	0.178	0.263	0.249	26.56
12) CM	1,1-Dichloroet...	0.857	0.818	0.799	0.736	0.689	0.771	0.778	7.69#
13) T	Acrolein		0.160	0.105	0.102	0.097	0.104	0.114	22.91
14) T	Allyl chloride	1.423	1.392	1.290	1.178	1.122	1.210	1.269	9.48
15) T	Acrylonitrile	0.499	0.502	0.519	0.467	0.438	0.471	0.483	6.12
16) T	Acetone	0.568	0.462	0.442	0.382	0.346	0.428	0.438	17.42
17) T	Carbon Disulfide	2.492	2.242	2.070	1.956	1.868	1.954	2.097	11.09
18) T	Methyl Acetate	1.542	1.545	1.389	1.255	1.161	1.329	1.370	11.26
19) T	Methyl tert-bu...	3.068	2.912	2.967	2.677	2.580	2.685	2.815	6.88
20) T	Methylene Chlo...	1.340	1.121	0.959	0.838	0.793	0.946	0.999	20.21
21) T	trans-1,2-Dich...	0.953	0.919	0.913	0.847	0.810	0.832	0.879	6.49
22) T	Diisopropyl ether	2.883	2.822	2.814	2.636	2.707	2.629	2.748	3.87
23) T	Vinyl Acetate	2.330	2.391	2.492	2.316	2.355	2.218	2.350	3.85
24) P	1,1-Dichloroet...	1.589	1.699	1.634	1.474	1.390	1.534	1.553	7.19
25) T	2-Butanone	0.772	0.728	0.756	0.671	0.624	0.696	0.708	7.85
26) T	2,2-Dichloropr...	1.418	1.442	1.417	1.321	1.278	1.356	1.372	4.71
27) T	cis-1,2-Dichlo...	1.228	1.113	1.114	0.978	0.926	0.996	1.059	10.58
28) T	Bromochloromet...	0.624	0.736	0.679	0.599	0.609	0.475	0.620	14.17
29) T	Tetrahydrofuran	0.507	0.476	0.481	0.437	0.424	0.445	0.462	6.76
30) C	Chloroform	1.749	1.726	1.802	1.673	1.627	1.643	1.703	3.95#
31) T	Cyclohexane		1.510	1.393	1.310	1.261	1.326	1.360	7.08
32) T	1,1,1-Trichlor...	1.597	1.627	1.629	1.483	1.451	1.497	1.547	5.13
33) S	1,2-Dichloroet...	1.440	1.151	0.995	0.913		0.953	1.090	19.77
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.771	0.602	0.542	0.515		0.529	0.592	17.79
36) T	1,1-Dichloropr...	0.783	0.829	0.819	0.788	0.758	0.791	0.795	3.27
37) T	Ethyl Acetate	1.042	1.021	0.943	0.883	0.869	0.931	0.948	7.46
38) T	Carbon Tetrach...	0.894	0.900	0.905	0.866	0.856	0.865	0.881	2.41
39) T	Methylcyclohexane	0.948	1.069	0.999	0.940	0.905	1.007	0.978	5.99
40) TM	Benzene	2.417	2.440	2.470	2.323	2.209	2.366	2.371	4.01
41) T	Methacrylonitrile	0.516	0.494	0.473	0.449	0.432	0.468	0.472	6.44
42) TM	1,2-Dichloroet...	0.875	0.889	0.891	0.854	0.836	0.898	0.874	2.75
43) T	Isopropyl Acetate	1.385	1.498	1.549	1.435	1.399	1.478	1.457	4.32
44) TM	Trichloroethene	0.727	0.698	0.692	0.638	0.605	0.674	0.672	6.54
45) C	1,2-Dichloropr...	0.607	0.648	0.615	0.576	0.546	0.583	0.596	5.91#
46) T	Dibromomethane	0.457	0.491	0.485	0.447	0.421	0.451	0.459	5.69
47) T	Bromodichlorom...	0.861	0.860	0.898	0.842	0.836	0.879	0.863	2.67
48) T	Methyl methacr...	0.740	0.637	0.684	0.650	0.630	0.654	0.666	6.15
49) T	1,4-Dioxane	0.015	0.015	0.017	0.015	0.014	0.016	0.015	7.24
50) S	Toluene-d8	2.093	2.112	1.980	1.888		1.887	1.992	5.42
51) T	4-Methyl-2-Pen...	0.876	0.946	0.995	0.941	0.946	0.919	0.937	4.18
52) CM	Toluene	1.455	1.507	1.593	1.529	1.713	1.483	1.546	6.07#
53) T	t-1,3-Dichloro...	0.786	0.848	0.921	0.946	0.976	0.879	0.893	7.78
54) T	cis-1,3-Dichlo...	0.974	0.994	1.008	0.975	0.962	0.944	0.976	2.33
55) T	1,1,2-Trichlor...	0.640	0.657	0.665	0.616	0.621	0.624	0.637	3.18
56) T	Ethyl methacry...	0.839	0.877	0.949	0.938	0.976	0.858	0.906	6.13

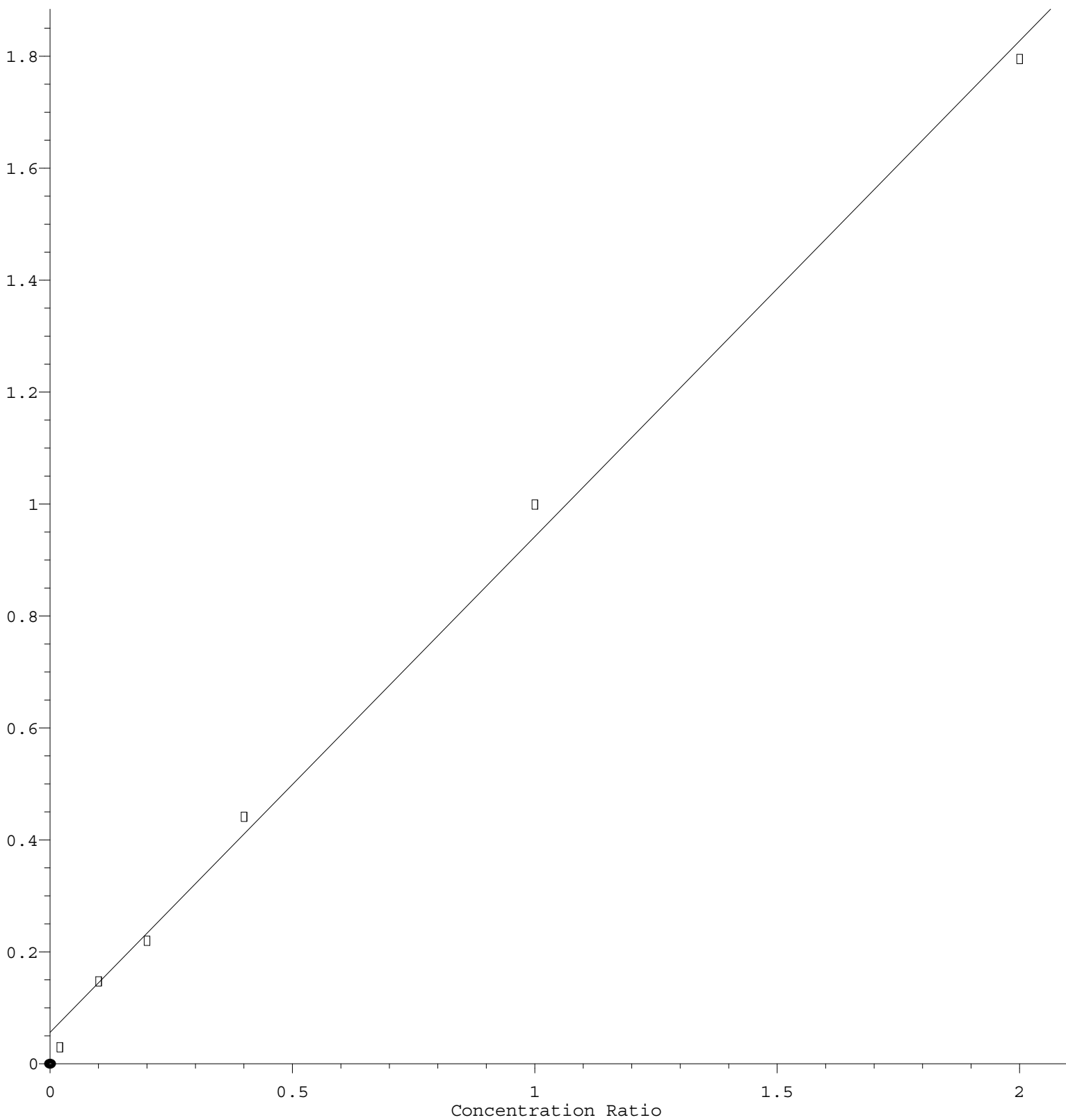
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57)	T	1,3-Dichloropr...	1.030	1.099	1.093	1.026	1.007	1.019	1.046	3.81
58)	T	2-Chloroethyl ...	0.233	0.406	0.395	0.385	0.373	0.310	0.350	19.04
59)	T	2-Hexanone	0.633	0.697	0.740	0.728	0.718	0.707	0.704	5.36
60)	T	Dibromochlorom...	0.578	0.654	0.699	0.707	0.764	0.659	0.677	9.26
61)	T	1,2-Dibromoethane	0.623	0.682	0.709	0.697	0.736	0.672	0.686	5.61
62)	S	4-Bromofluorob...	0.750	0.673	0.651	0.675		0.624	0.675	6.97
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.633	0.660	0.616	0.562	0.527	0.606	0.601	8.07
65)	PM	Chlorobenzene	1.554	1.645	1.585	1.477	1.502	1.489	1.542	4.24
66)	T	1,1,1,2-Tetrac...	0.535	0.570	0.590	0.545	0.540	0.558	0.556	3.73
67)	C	Ethyl Benzene	2.724	2.837	2.783	2.631	2.755	2.605	2.722	3.28#
68)	T	m/p-Xylenes	1.011	1.086	1.079	1.065	1.296	1.027	1.094	9.45
69)	T	o-Xylene	0.931	1.072	1.039	1.038	1.192	0.993	1.044	8.37
70)	T	Styrene	1.452	1.630	1.755	1.729	2.165	1.585	1.719	14.19
71)	P	Bromoform	0.386	0.437	0.448	0.451	0.528	0.420	0.445	10.61
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.828	4.155	3.992	3.300	3.196	3.931	3.734	10.51
74)	T	N-amyl acetate	1.538	1.649	1.711	1.402	1.175	1.606	1.513	13.01
75)	P	1,1,2,2-Tetrac...	1.455	1.417	1.305	1.074	0.962	1.339	1.259	15.67
76)	T	1,2,3-Trichlor...	1.239	1.108	1.213	1.005	0.982	1.148	1.116	9.50
77)	T	Bromobenzene	0.985	1.065	0.988	0.786	0.749	0.948	0.920	13.56
78)	T	n-propylbenzene	4.384	4.657	4.684	3.909	3.732	4.408	4.296	9.12
79)	T	2-Chlorotoluene	2.715	2.882	2.718	2.256	2.202	2.568	2.557	10.69
80)	T	1,3,5-Trimethy...	3.051	3.455	3.380	2.992	3.003	3.132	3.169	6.32
81)	T	trans-1,4-Dich...		0.335	0.381	0.342	0.327	0.347	0.347	6.05
82)	T	4-Chlorotoluene	3.027	3.164	3.130	2.898	2.780	3.005	3.001	4.79
83)	T	tert-Butylbenzene	3.070	3.276	3.339	2.761	2.808	3.173	3.071	7.82
84)	T	1,2,4-Trimethy...	2.925	3.423	3.384	2.906	2.892	3.193	3.121	7.88
85)	T	sec-Butylbenzene	3.943	4.099	4.130	3.595	3.527	4.026	3.887	6.72
86)	T	p-Isopropyltol...	3.101	3.481	3.499	3.153	3.140	3.319	3.282	5.41
87)	T	1,3-Dichlorobe...	1.821	1.950	1.867	1.584	1.529	1.833	1.764	9.53
88)	T	1,4-Dichlorobe...	2.035	1.919	1.889	1.705	1.660	1.831	1.840	7.59
89)	T	n-Butylbenzene	2.602	2.971	3.003	2.722	2.600	2.876	2.796	6.42
90)	T	Hexachloroethane	0.578	0.611	0.601	0.525	0.484	0.584	0.564	8.73
91)	T	1,2-Dichlorobe...	1.999	1.867	1.838	1.601	1.573	1.780	1.776	9.21
92)	T	1,2-Dibromo-3-...	0.272	0.267	0.289	0.243	0.215	0.254	0.257	10.02
93)	T	1,2,4-Trichlor...	0.955	1.102	1.086	0.903	0.765	1.060	0.979	13.35
94)	T	Hexachlorobuta...	0.506	0.428	0.416	0.326	0.261	0.409	0.391	21.85
95)	T	Naphthalene	3.844	3.785	4.031	3.296	2.848	3.702	3.584	12.14
96)	T	1,2,3-Trichlor...	1.016	1.133	1.126	0.904	0.776	1.097	1.009	14.17

(#) = Out of Range

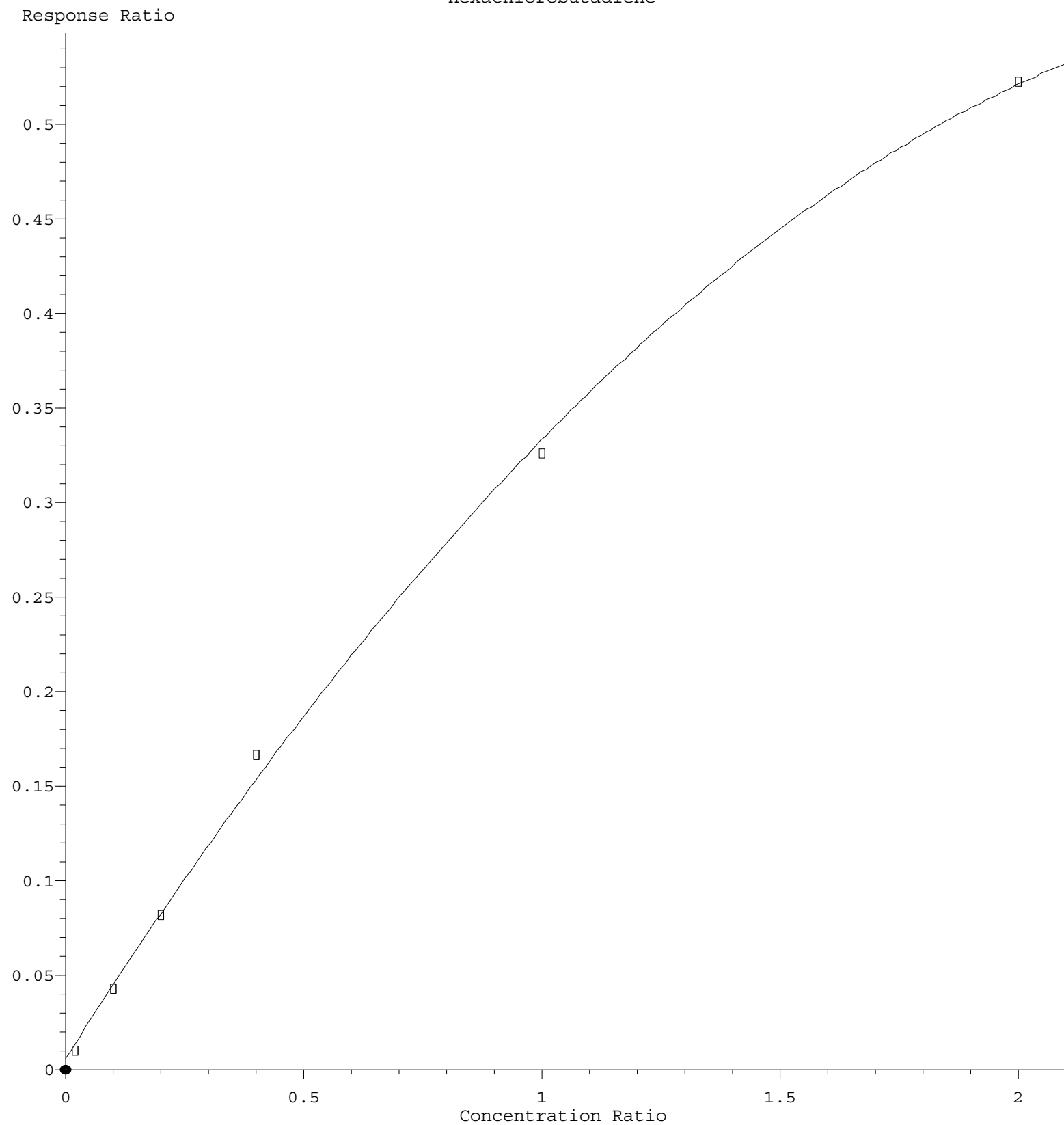
Chloroethane

Response Ratio



$\text{Response} = 8.860\text{e-}001 * \text{Amt} + 5.591\text{e-}002$
 Coef of Det (r^2) = 0.996740 Curve Fit: Linear
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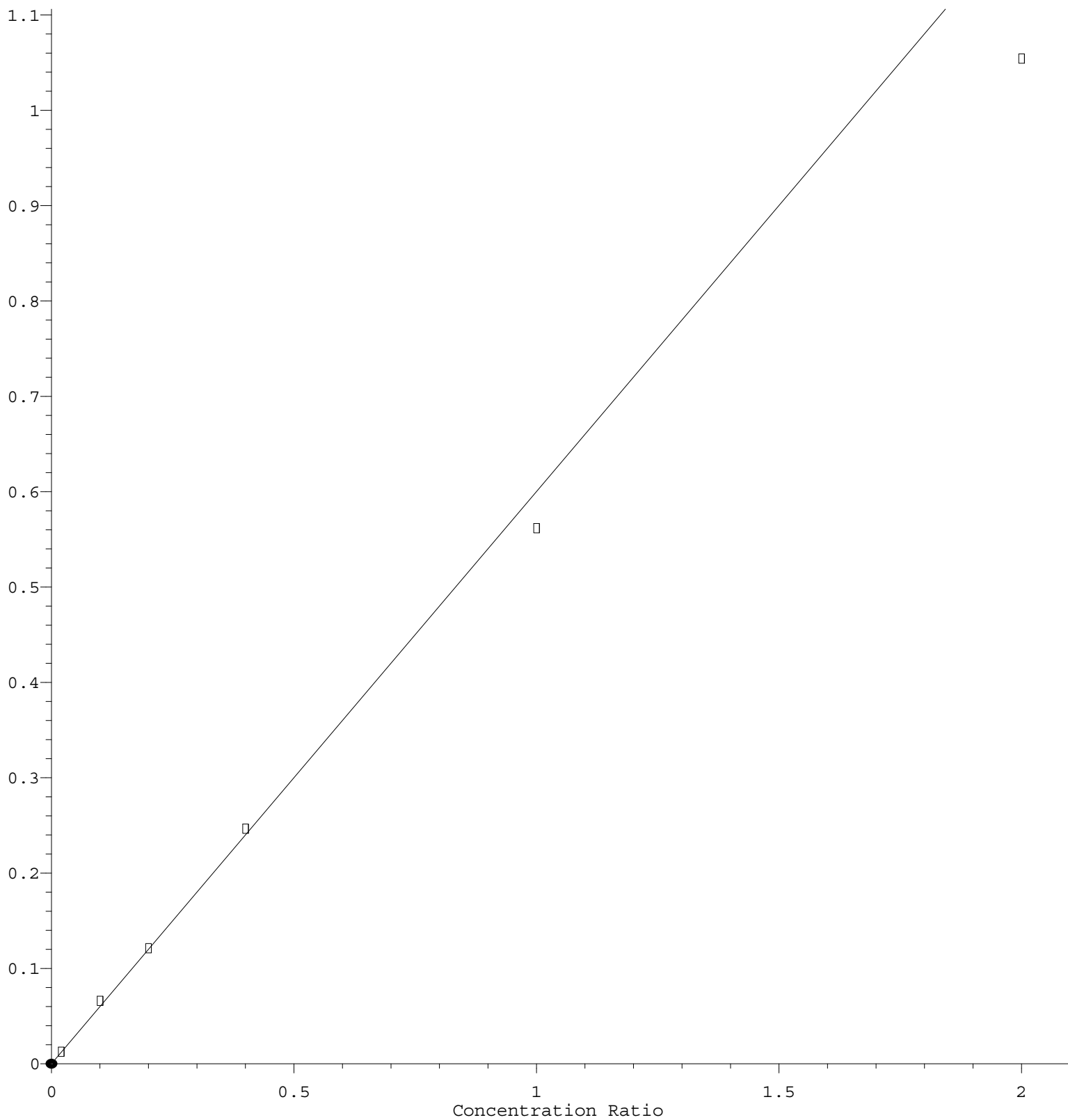
Hexachlorobutadiene



$R = -6.970e-002 A^2 + 3.970e-001 A + 5.986e-003$
Coef of Det (r^2) = 0.998772 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X091922W.M
Calibration Table Last Updated: Tue Sep 20 09:45:29 2022

Tetrachloroethene

Response Ratio



$$\text{Response} = 6.006\text{e-}001 * \text{Amt}$$

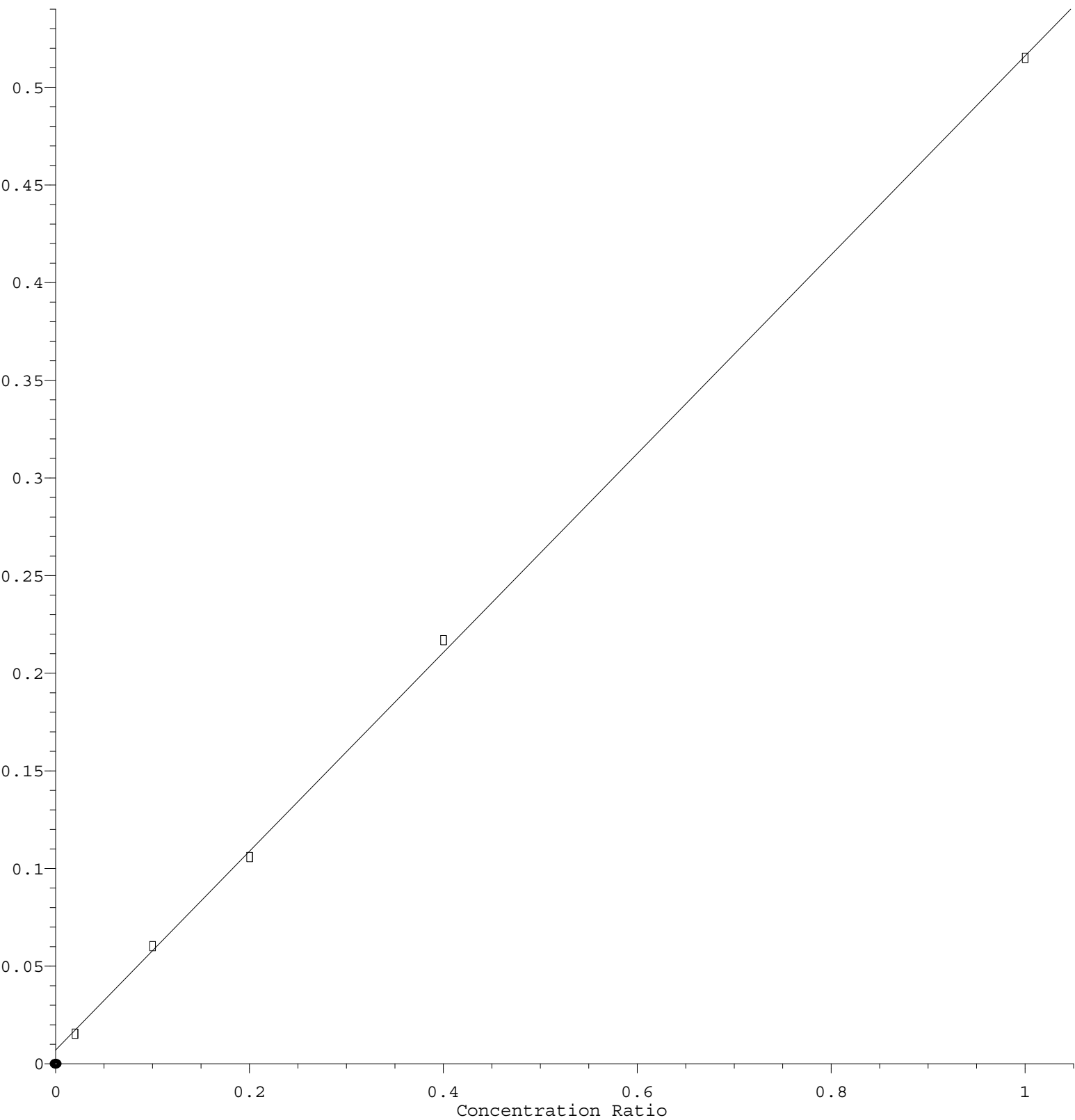
RF Rel Std Dev = 8.069% Curve Fit: Avg RF

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X091922W.M

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Dibromofluoromethane

Response Ratio



$$\text{Response} = 5.093\text{e-}001 * \text{Amt} + 7.494\text{e-}003$$

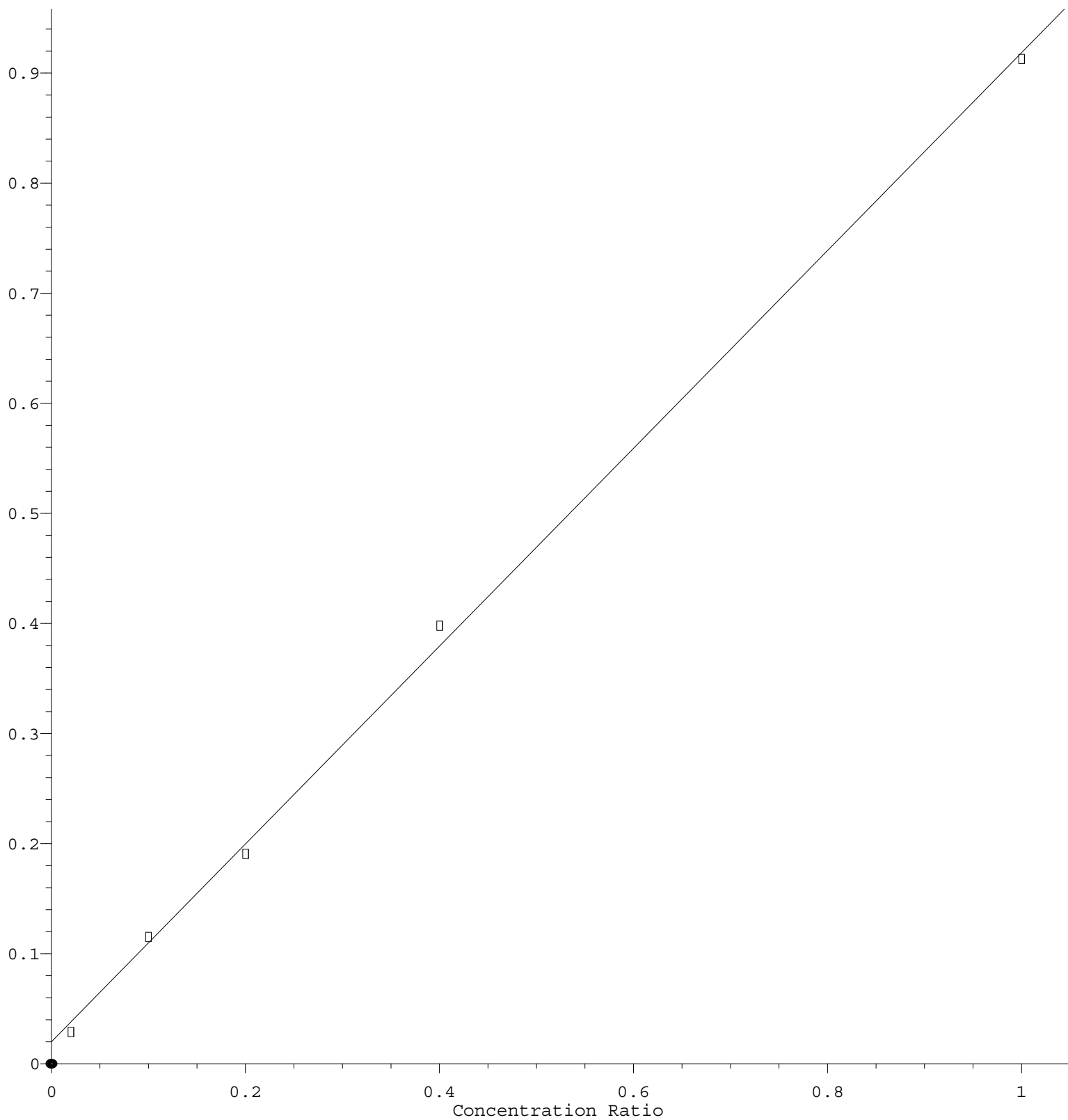
Coef of Det (r^2) = 0.999651 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X091922W.M

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1,2-Dichloroethane-d4

Response Ratio



$$\text{Response} = 8.989\text{e-}001 * \text{Amt} + 1.980\text{e-}002$$

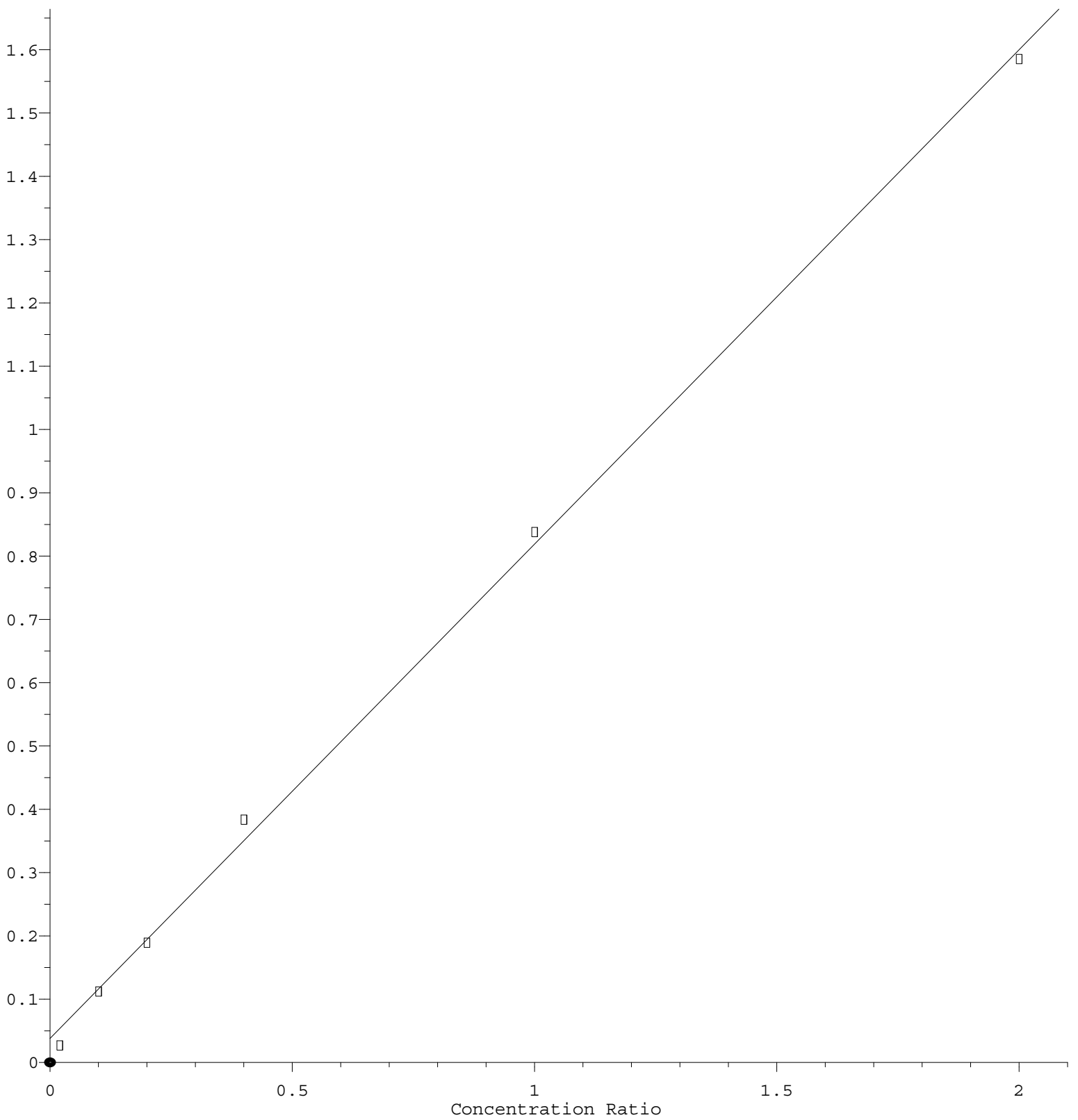
Coef of Det (r^2) = 0.998861 Curve Fit: Linear

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Methylene Chloride

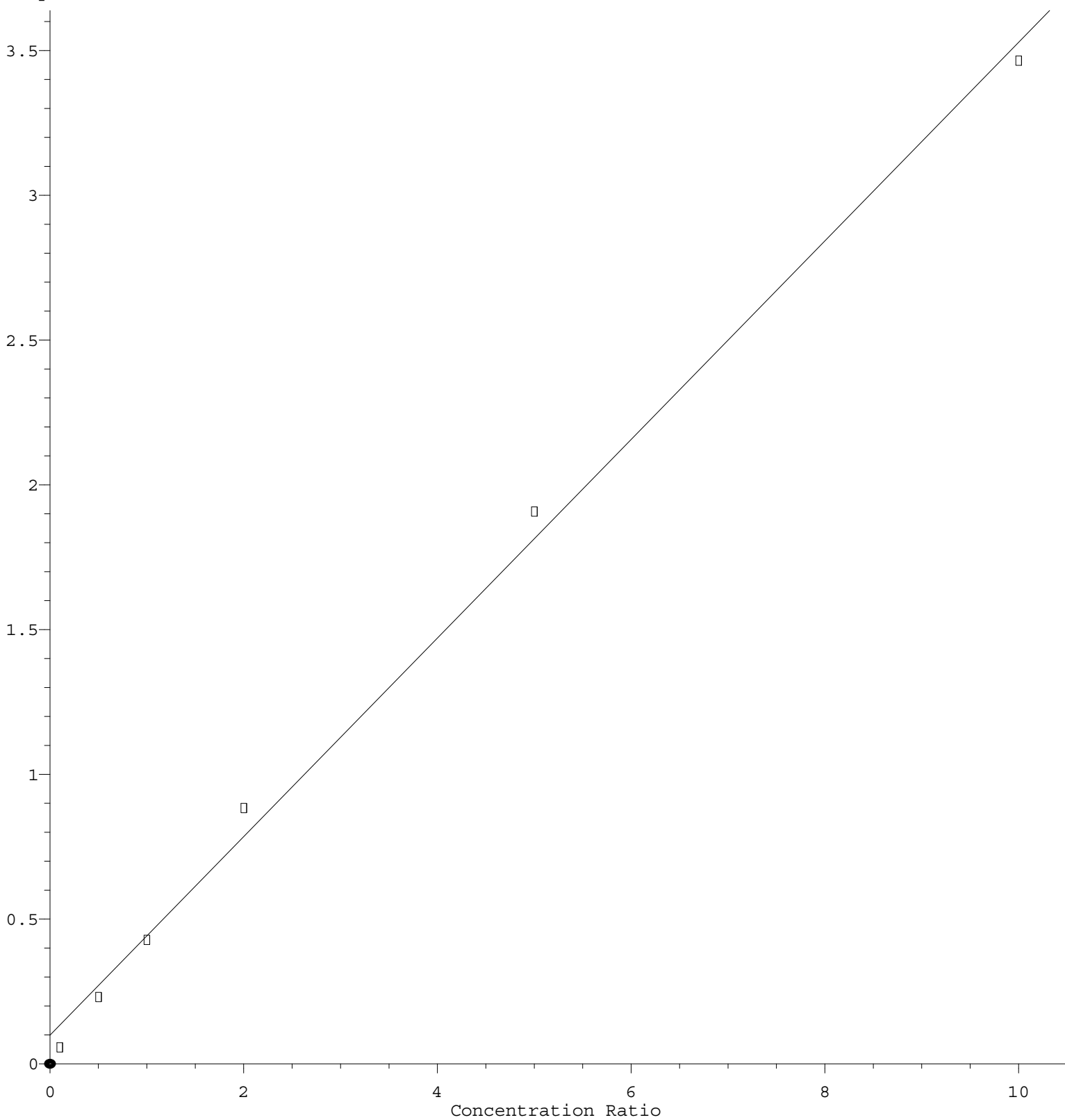
Response Ratio



Response = $7.809e-001 * Amt + 3.831e-002$
 Coef of Det (r^2) = 0.998624 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X091922W.M
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Acetone

Response Ratio



$$\text{Response} = 3.429\text{e-}001 * \text{Amt} + 9.906\text{e-}002$$

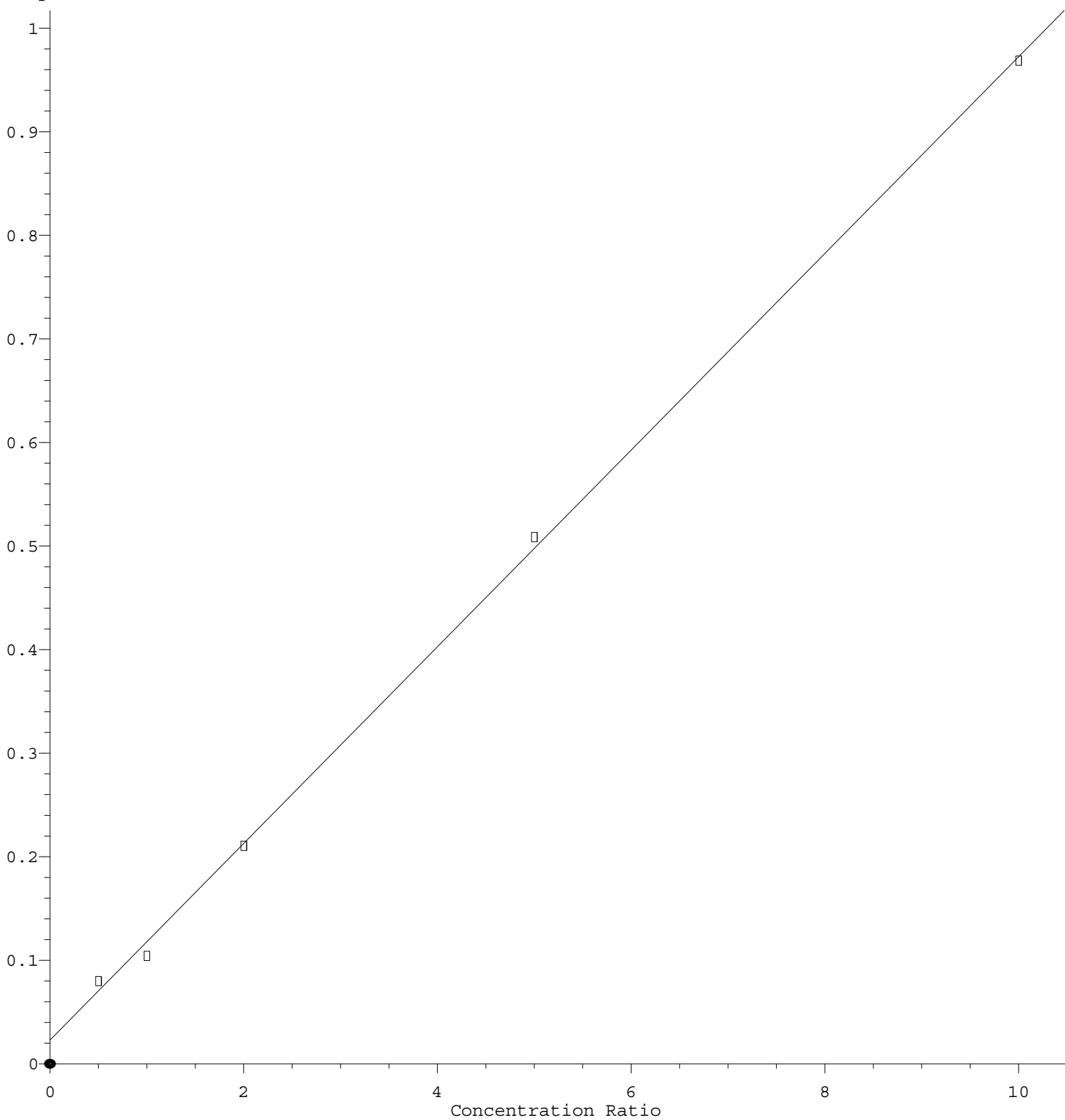
Coef of Det (r^2) = 0.996478 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X091922W.M

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Acrolein

Response Ratio



$$\text{Response} = 9.496\text{e-}002 * \text{Amt} + 2.300\text{e-}002$$

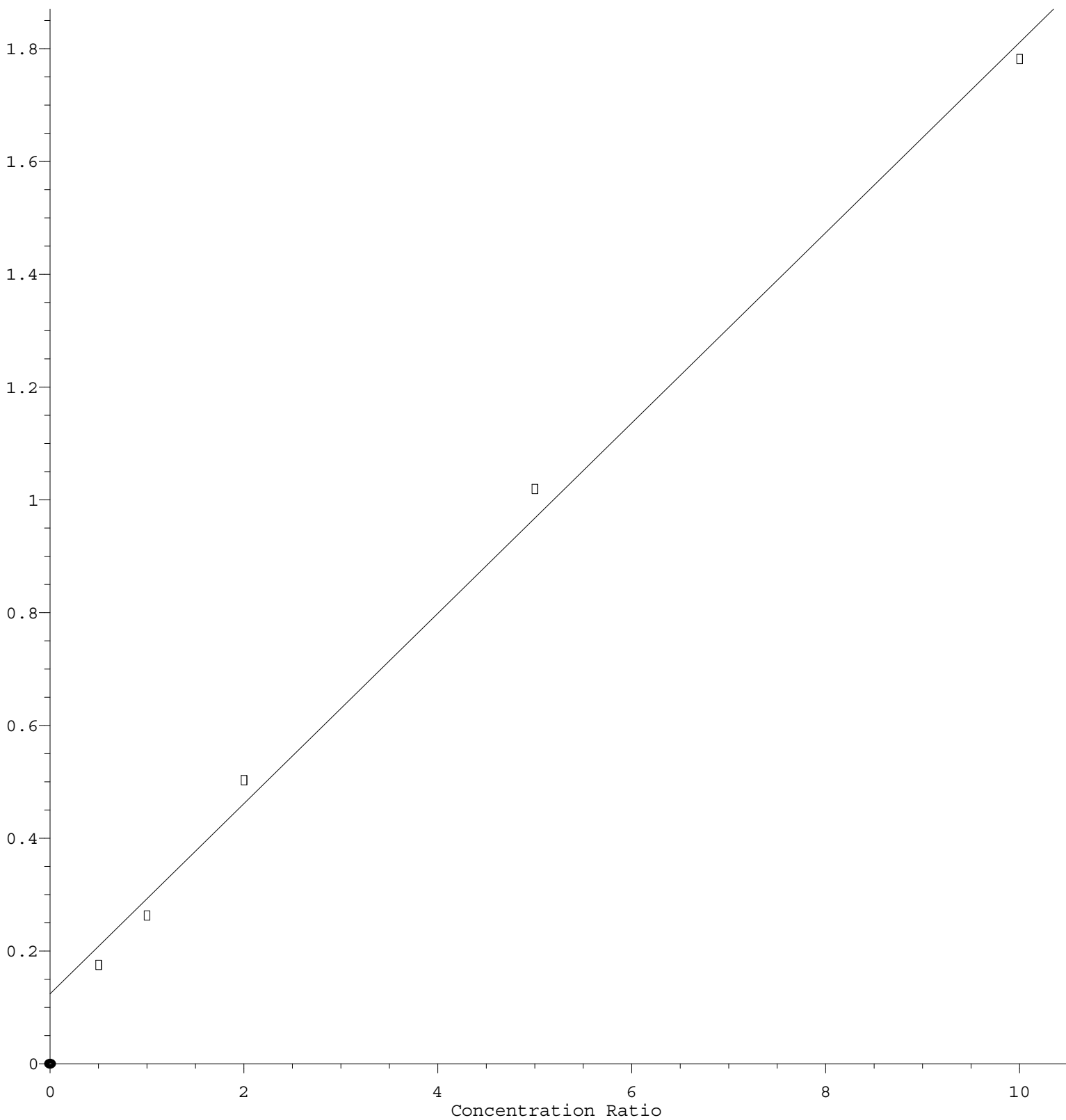
Coef of Det (r^2) = 0.999258 Curve Fit: Linear

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Tert butyl alcohol

Response Ratio



$$\text{Response} = 1.687\text{e-}001 * \text{Amt} + 1.243\text{e-}001$$

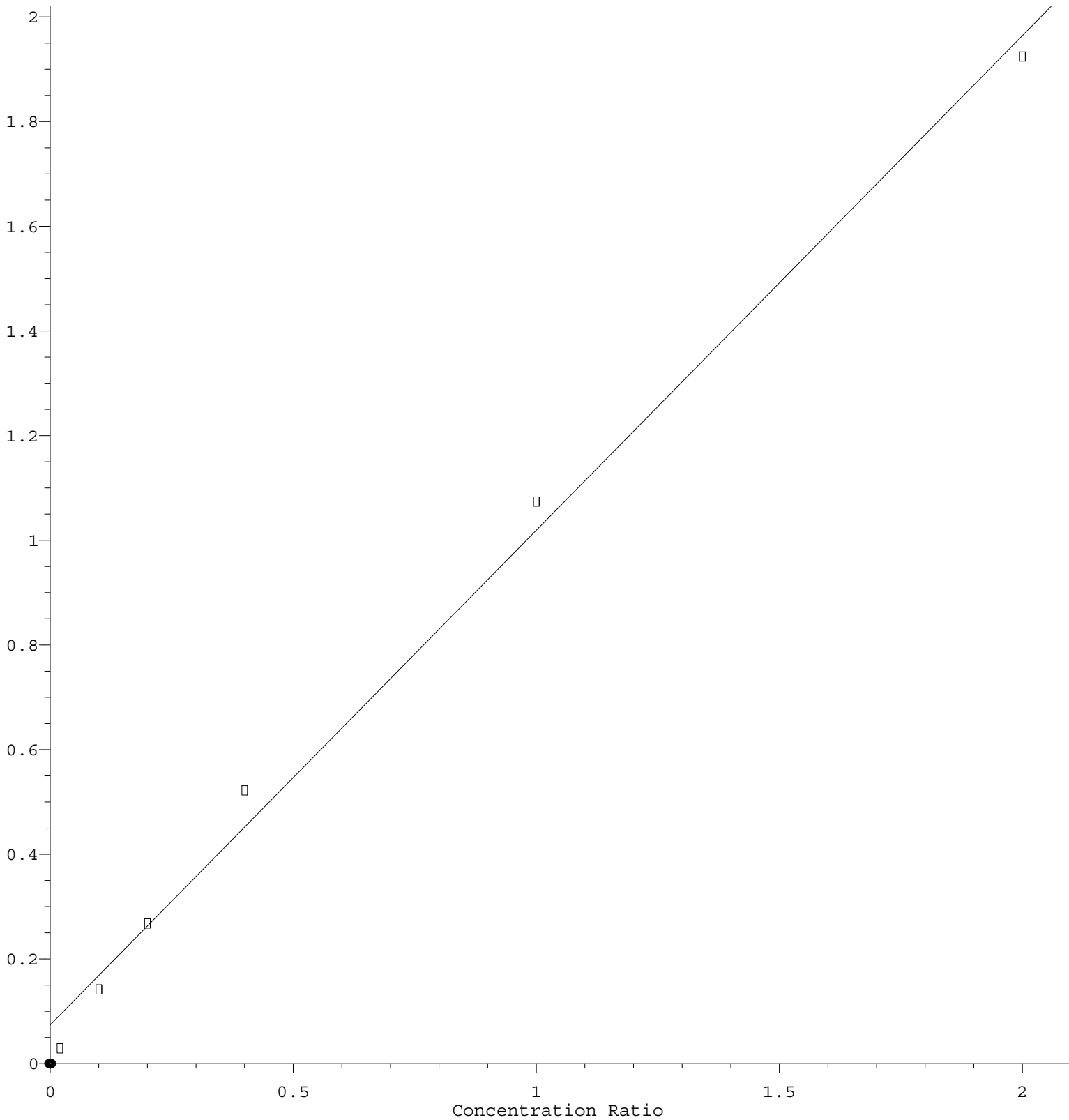
Coef of Det (r^2) = 0.995907 Curve Fit: Linear

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1,1,2,2-Tetrachloroethane

Response Ratio



$$\text{Response} = 9.453\text{e-}001 * \text{Amt} + 7.373\text{e-}002$$

Coef of Det (r^2) = 0.994515 Curve Fit: Linear

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