

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y012424S.M
 Title : SW846 8260
 Last Update : Thu Jan 25 04:44:10 2024
 Response Via : Initial Calibration

Calibration Files

5 =VY017092.D 10 =VY017093.D 20 =VY017087.D 50 =VY017088.D 100 =VY017089.D 150 =VY017090.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.566	0.543	0.477	0.346	0.343	0.331	0.434	24.80
3) P	Chloromethane	0.996	0.860	0.774	0.612	0.586	0.546	0.729	24.38
4) C	Vinyl Chloride	1.071	0.979	0.850	0.724	0.711	0.664	0.833	19.61#
5) T	Bromomethane	0.824	0.729	0.612	0.521	0.530	0.508	0.621	20.89
6) T	Chloroethane	0.665	0.616	0.532	0.472	0.474	0.444	0.534	16.68
7) T	Trichlorofluor...	1.487	1.024	0.887	0.808	0.809	0.779	0.966	28.01
8) T	Diethyl Ether	0.335	0.323	0.279	0.266	0.276	0.249	0.288	11.62
9) T	1,1,2-Trichlor...	0.674	0.634	0.551	0.507	0.507	0.483	0.559	13.89
10) T	Methyl Iodide	0.519	0.528	0.525	0.536	0.556	0.524	0.531	2.47
11) T	Tert butyl alc...	0.048	0.042	0.037	0.032	0.034	0.029	0.037	18.44
12) CM	1,1-Dichloroet...	0.596	0.573	0.497	0.468	0.479	0.458	0.512	11.34#
13) T	Acrolein	0.064	0.069	0.059	0.055	0.053	0.050	0.058	11.80
14) T	Allyl chloride	0.883	0.832	0.753	0.733	0.750	0.691	0.774	9.09
15) T	Acrylonitrile	0.139	0.140	0.121	0.119	0.124	0.106	0.125	10.32
16) T	Acetone	0.220	0.206	0.182	0.117	0.119	0.103	0.158	32.26
17) T	Carbon Disulfide	1.806	1.717	1.525	1.430	1.425	1.356	1.543	11.66
18) T	Methyl Acetate	0.545	0.542	0.467	0.494	0.512	0.437	0.500	8.49
19) T	Methyl tert-bu...	1.370	1.360	1.180	1.191	1.255	1.138	1.249	7.79
20) T	Methylene Chlo...	1.037	0.826	0.597	0.547	0.535	0.487	0.671	32.06
21) T	trans-1,2-Dich...	0.651	0.671	0.577	0.558	0.562	0.534	0.592	9.39
22) T	Diisopropyl ether	1.810	1.874	1.683	1.663	1.689	1.530	1.708	7.07
23) T	Vinyl Acetate	0.897	0.901	0.810	0.794	0.832	0.738	0.829	7.57
24) P	1,1-Dichloroet...	1.222	1.164	1.015	0.968	0.978	0.905	1.042	11.86
25) T	2-Butanone	0.240	0.236	0.213	0.161	0.170	0.144	0.194	21.15
26) T	2,2-Dichloropr...	1.035	0.961	0.847	0.827	0.848	0.821	0.890	9.82
27) T	cis-1,2-Dichlo...	0.716	0.717	0.633	0.623	0.647	0.600	0.656	7.52
28) T	Bromochloromet...	0.424	0.440	0.392	0.457	0.405	0.370	0.415	7.71
29) T	Tetrahydrofuran	0.102	0.108	0.099	0.097	0.101	0.085	0.099	7.57
30) C	Chloroform	1.221	1.189	1.028	0.988	1.001	0.938	1.061	10.94#
31) T	Cyclohexane	1.208	1.101	0.920	0.867	0.864	0.816	0.963	16.18
32) T	1,1,1-Trichlor...	1.024	1.013	0.862	0.849	0.875	0.835	0.910	9.41
33) S	1,2-Dichloroet...	0.492	0.514	0.502	0.493	0.472	0.451	0.487	4.61
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.290	0.302	0.312	0.312	0.300	0.295	0.302	2.97
36) T	1,1-Dichloropr...	0.553	0.530	0.480	0.468	0.482	0.466	0.497	7.30
37) T	Ethyl Acetate	0.243	0.224	0.221	0.196	0.210	0.186	0.213	9.61
38) T	Carbon Tetrach...	0.543	0.524	0.460	0.455	0.474	0.463	0.487	7.71
39) T	Methylcyclohexane	0.627	0.612	0.568	0.584	0.608	0.584	0.597	3.70
40) TM	Benzene	1.582	1.535	1.401	1.383	1.409	1.342	1.442	6.56
41) T	Methacrylonitrile	0.139	0.130	0.103	0.099	0.111	0.103	0.114	14.37
42) TM	1,2-Dichloroet...	0.409	0.413	0.363	0.355	0.367	0.336	0.374	8.21
43) T	Isopropyl Acetate	0.422	0.419	0.380	0.387	0.414	0.368	0.399	5.78
44) TM	Trichloroethene	0.396	0.402	0.354	0.349	0.364	0.353	0.370	6.34
45) C	1,2-Dichloropr...	0.383	0.388	0.345	0.340	0.344	0.324	0.354	7.31#
46) T	Dibromomethane	0.210	0.200	0.183	0.178	0.185	0.171	0.188	7.68
47) T	Bromodichlorom...	0.521	0.509	0.459	0.463	0.470	0.447	0.478	6.24
48) T	Methyl methacr...	0.208	0.224	0.220	0.221	0.241	0.214	0.221	5.05
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	4.46
50) S	Toluene-d8	1.058	1.126	1.152	1.198	1.151	1.154	1.140	4.08
51) T	4-Methyl-2-Pen...	0.219	0.219	0.210	0.208	0.223	0.194	0.212	5.07
52) CM	Toluene	0.889	0.931	0.844	0.852	0.880	0.841	0.873	3.94#
53) T	t-1,3-Dichloro...	0.457	0.440	0.408	0.428	0.459	0.429	0.437	4.44
54) T	cis-1,3-Dichlo...	0.547	0.574	0.514	0.525	0.544	0.519	0.537	4.20
55) T	1,1,2-Trichlor...	0.302	0.279	0.247	0.251	0.261	0.237	0.263	9.09
56) T	Ethyl methacry...	0.217	0.221	0.218	0.232	0.259	0.231	0.230	6.83

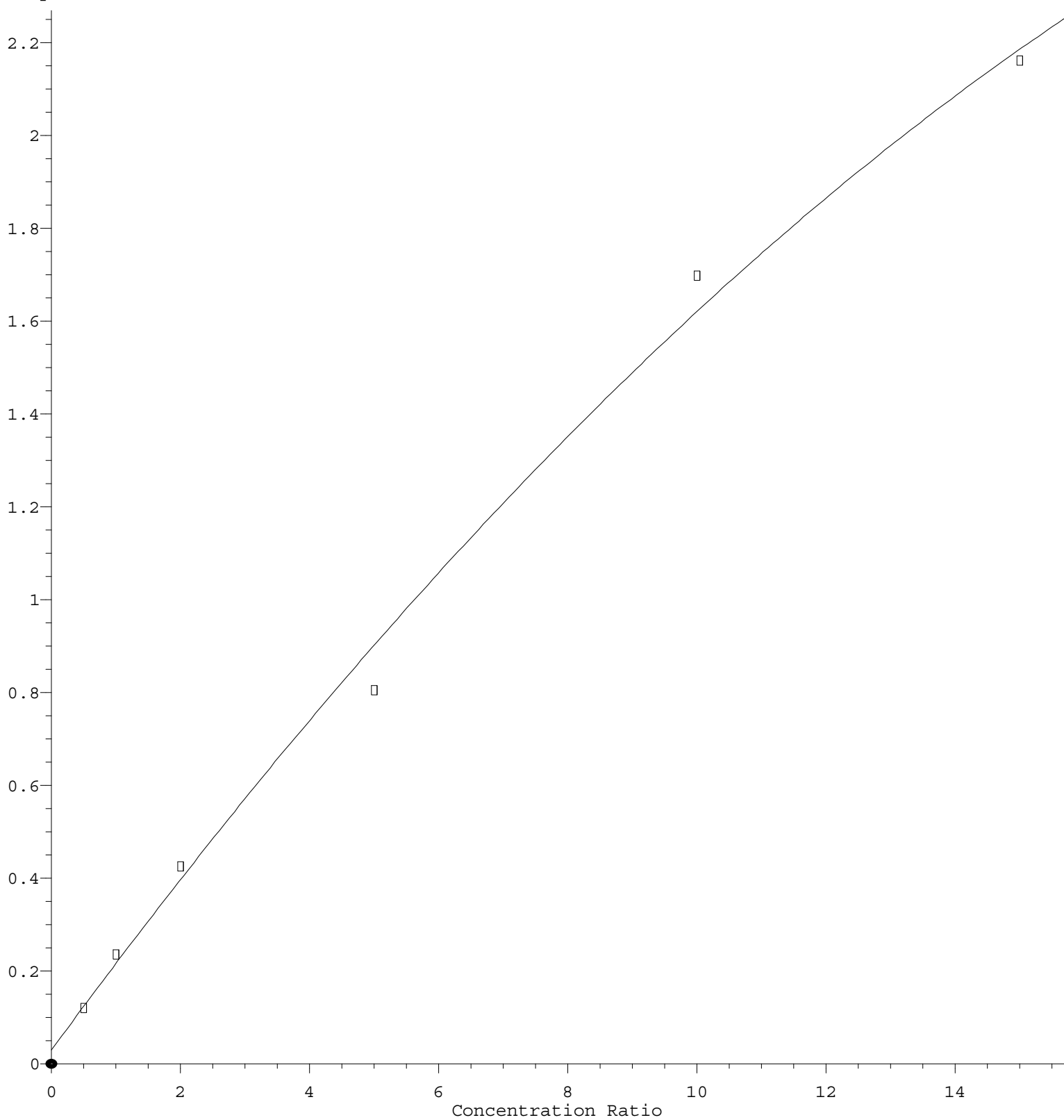
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 Method File : 82Y012424S.M

57)	T	1,3-Dichloropr...	0.488	0.470	0.428	0.433	0.439	0.405	0.444	6.79
58)	T	2-Chloroethyl ...	0.132	0.153	0.150	0.176	0.170	0.176	0.159	11.05
59)	T	2-Hexanone	0.171	0.177	0.177	0.147	0.159	0.138	0.162	10.14
60)	T	Dibromochlorom...	0.333	0.319	0.290	0.292	0.309	0.288	0.305	5.97
61)	T	1,2-Dibromoethane	0.259	0.253	0.226	0.228	0.243	0.222	0.239	6.52
62)	S	4-Bromofluorob...	0.327	0.340	0.349	0.372	0.363	0.355	0.351	4.60
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.393	0.378	0.326	0.324	0.339	0.330	0.349	8.43
65)	PM	Chlorobenzene	1.177	1.131	1.006	1.000	1.043	1.001	1.060	7.17
66)	T	1,1,1,2-Tetrac...	0.411	0.402	0.369	0.373	0.391	0.376	0.387	4.47
67)	C	Ethyl Benzene	1.981	1.996	1.819	1.878	1.977	1.905	1.926	3.65#
68)	T	m/p-Xylenes	0.745	0.751	0.686	0.703	0.741	0.716	0.724	3.61
69)	T	o-Xylene	0.653	0.672	0.625	0.651	0.684	0.660	0.657	3.11
70)	T	Styrene	0.918	0.946	0.910	0.966	1.015	0.972	0.954	4.08
71)	P	Bromoform	0.209	0.197	0.184	0.186	0.203	0.185	0.194	5.43
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	4.356	4.354	3.951	3.943	4.086	3.972	4.110	4.78
74)	T	N-amyl acetate	0.824	0.857	0.804	0.810	0.885	0.792	0.829	4.29
75)	P	1,1,2,2-Tetrac...	0.887	0.868	0.767	0.738	0.762	0.681	0.784	10.06
76)	T	1,2,3-Trichlor...	0.650	0.588	0.672	0.596	0.591	0.544	0.607	7.69
77)	T	Bromobenzene	0.942	0.951	0.853	0.845	0.888	0.858	0.889	5.24
78)	T	n-propylbenzene	5.143	5.256	4.795	4.835	4.941	4.694	4.944	4.37
79)	T	2-Chlorotoluene	2.957	2.897	2.612	2.588	2.669	2.554	2.713	6.31
80)	T	1,3,5-Trimethy...	3.319	3.462	3.175	3.159	3.266	3.137	3.253	3.81
81)	T	trans-1,4-Dich...	0.263	0.251	0.221	0.216	0.238	0.217	0.234	8.35
82)	T	4-Chlorotoluene	3.113	3.035	2.694	2.688	2.734	2.605	2.812	7.44
83)	T	tert-Butylbenzene	2.878	2.969	2.629	2.758	2.894	2.755	2.814	4.37
84)	T	1,2,4-Trimethy...	3.313	3.419	3.096	3.152	3.269	3.151	3.233	3.78
85)	T	sec-Butylbenzene	4.366	4.442	3.976	4.115	4.122	3.979	4.167	4.70
86)	T	p-Isopropyltol...	3.500	3.582	3.278	3.441	3.552	3.470	3.471	3.10
87)	T	1,3-Dichlorobe...	1.881	1.876	1.672	1.670	1.745	1.692	1.756	5.61
88)	T	1,4-Dichlorobe...	1.966	1.849	1.659	1.630	1.667	1.595	1.728	8.46
89)	T	n-Butylbenzene	3.478	3.526	3.189	3.329	3.377	3.187	3.348	4.24
90)	T	Hexachloroethane	0.791	0.805	0.682	0.685	0.700	0.676	0.723	8.09
91)	T	1,2-Dichlorobe...	1.642	1.638	1.440	1.408	1.473	1.397	1.500	7.47
92)	T	1,2-Dibromo-3-...	0.115	0.114	0.095	0.093	0.099	0.087	0.100	11.53
93)	T	1,2,4-Trichlor...	0.811	0.804	0.699	0.746	0.821	0.820	0.784	6.39
94)	T	Hexachlorobuta...	0.544	0.521	0.429	0.438	0.454	0.444	0.472	10.28
95)	T	Naphthalene	1.332	1.280	1.207	1.353	1.600	1.532	1.384	10.92
96)	T	1,2,3-Trichlor...	0.684	0.685	0.567	0.617	0.684	0.675	0.652	7.52

(#) = Out of Range

2-Butanone

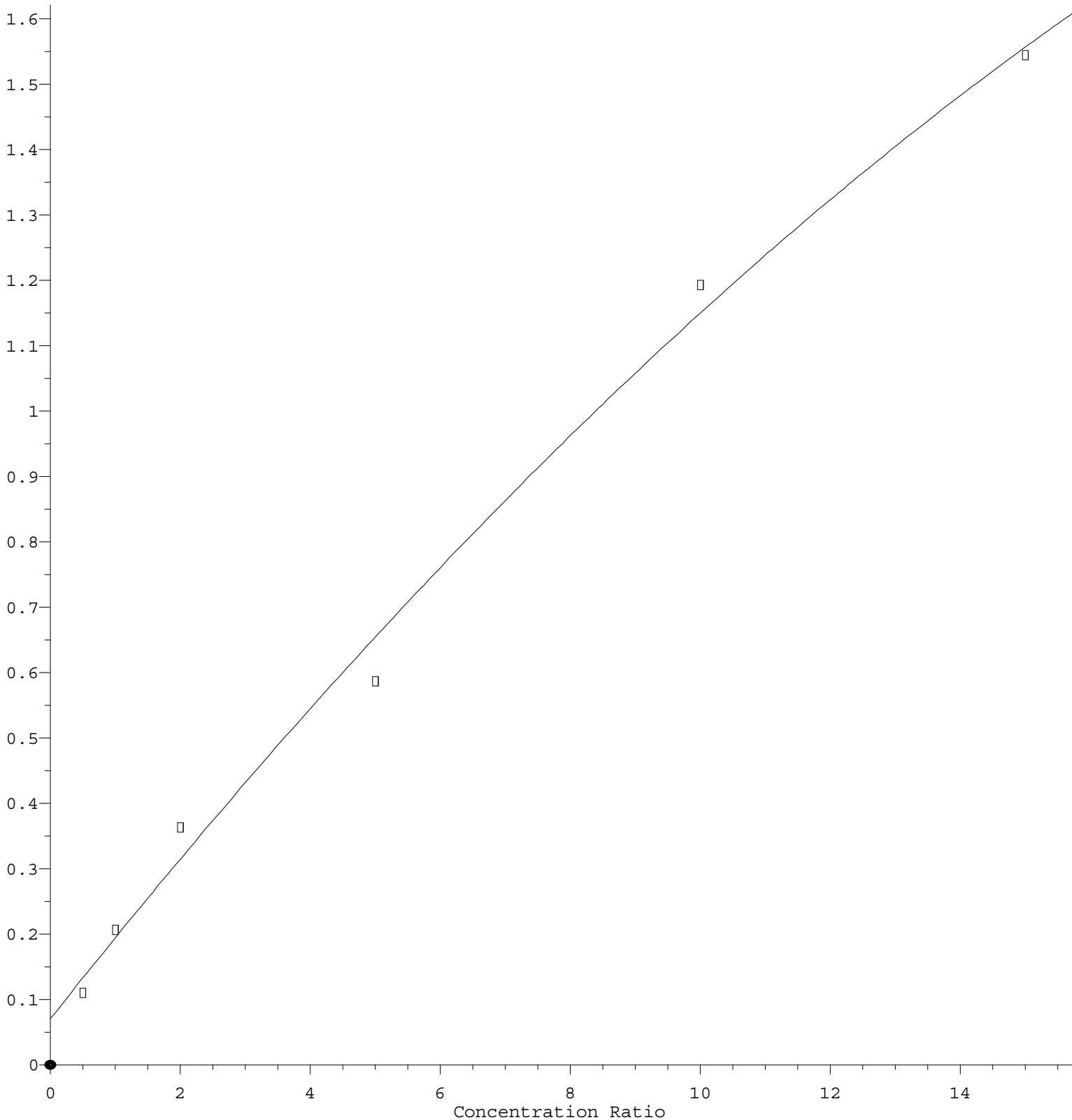
Response Ratio



$R = -3.071e-003 A^2 + 1.898e-001 A + 2.977e-002$
Coef of Det (r^2) = 0.995110 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y012424S.M
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Acetone

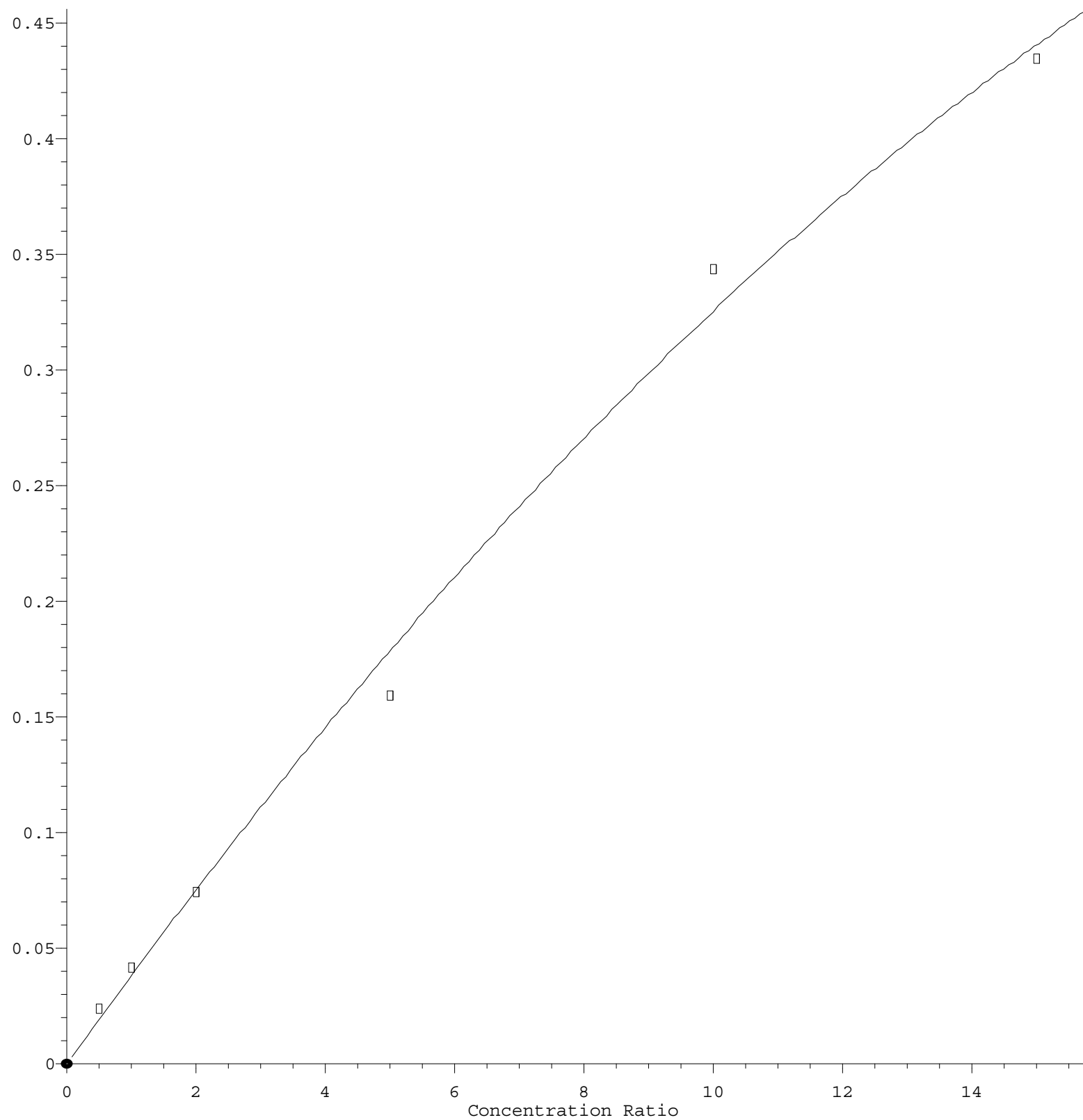
Response Ratio



$R = -1.773e-003 A^2 + 1.257e-001 A + 7.060e-002$
 Coef of Det (r^2) = 0.994237 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y012424S.M
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Tert butyl alcohol

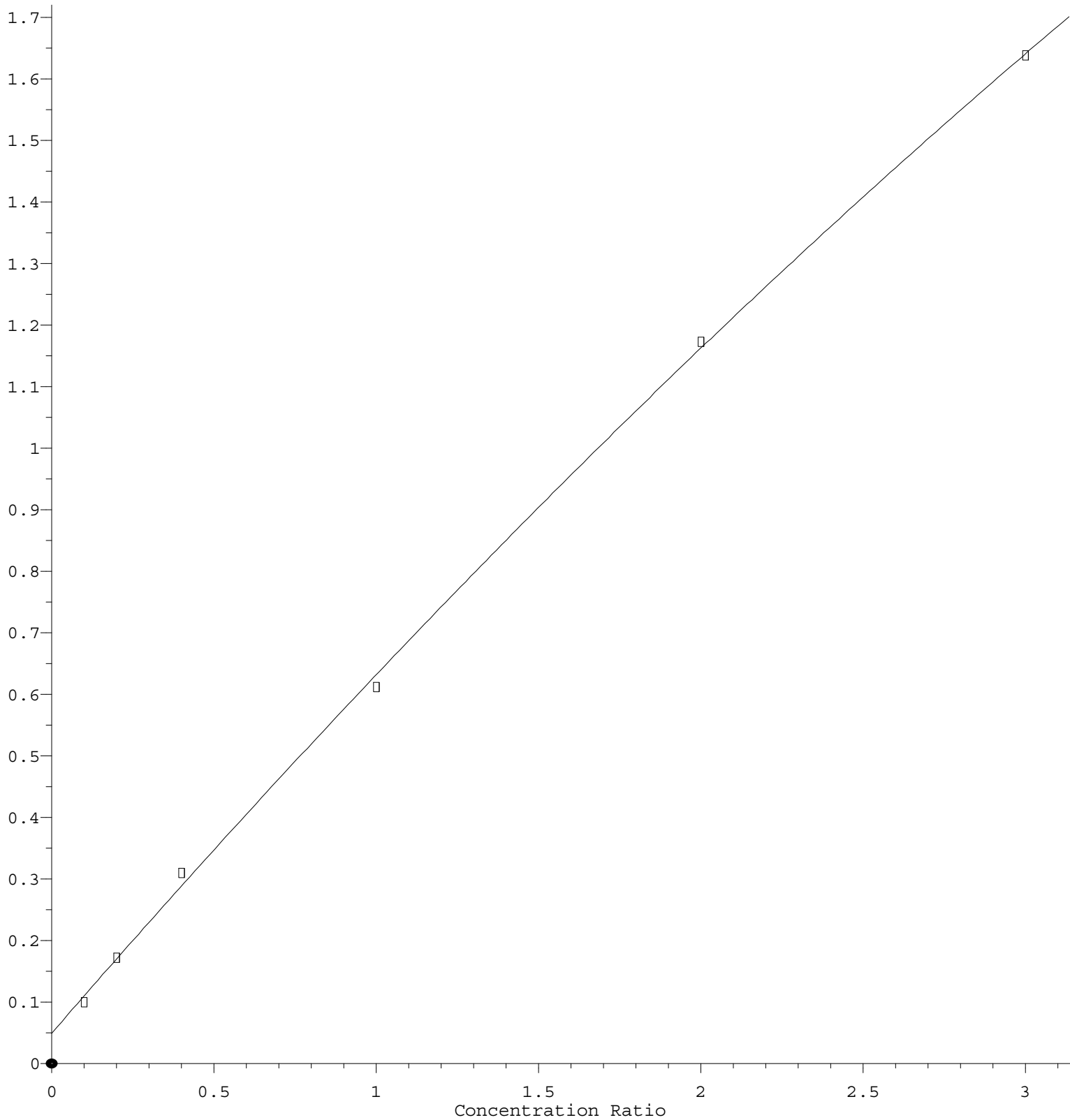
Response Ratio



$R = -6.352e-004 A^2 + 3.890e-002 A - 8.500e-005$
 Coef of Det (r^2) = 0.994730 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y012424S.M
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Chloromethane

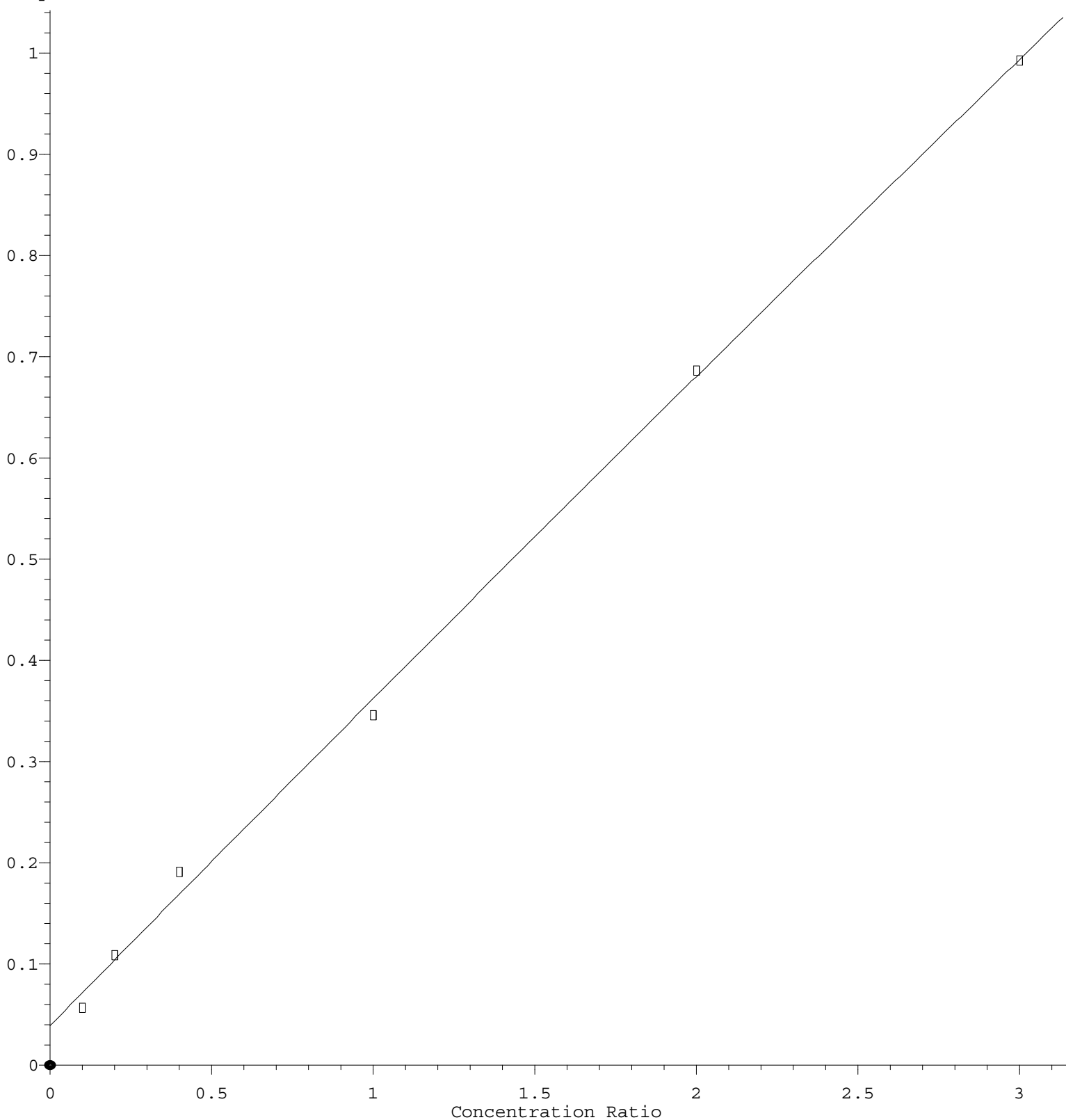
Response Ratio



$R = -2.607e-002 A^2 + 6.087e-001 A + 4.931e-002$
Coef of Det (r^2) = 0.999435 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y012424S.M
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Dichlorodifluoromethane

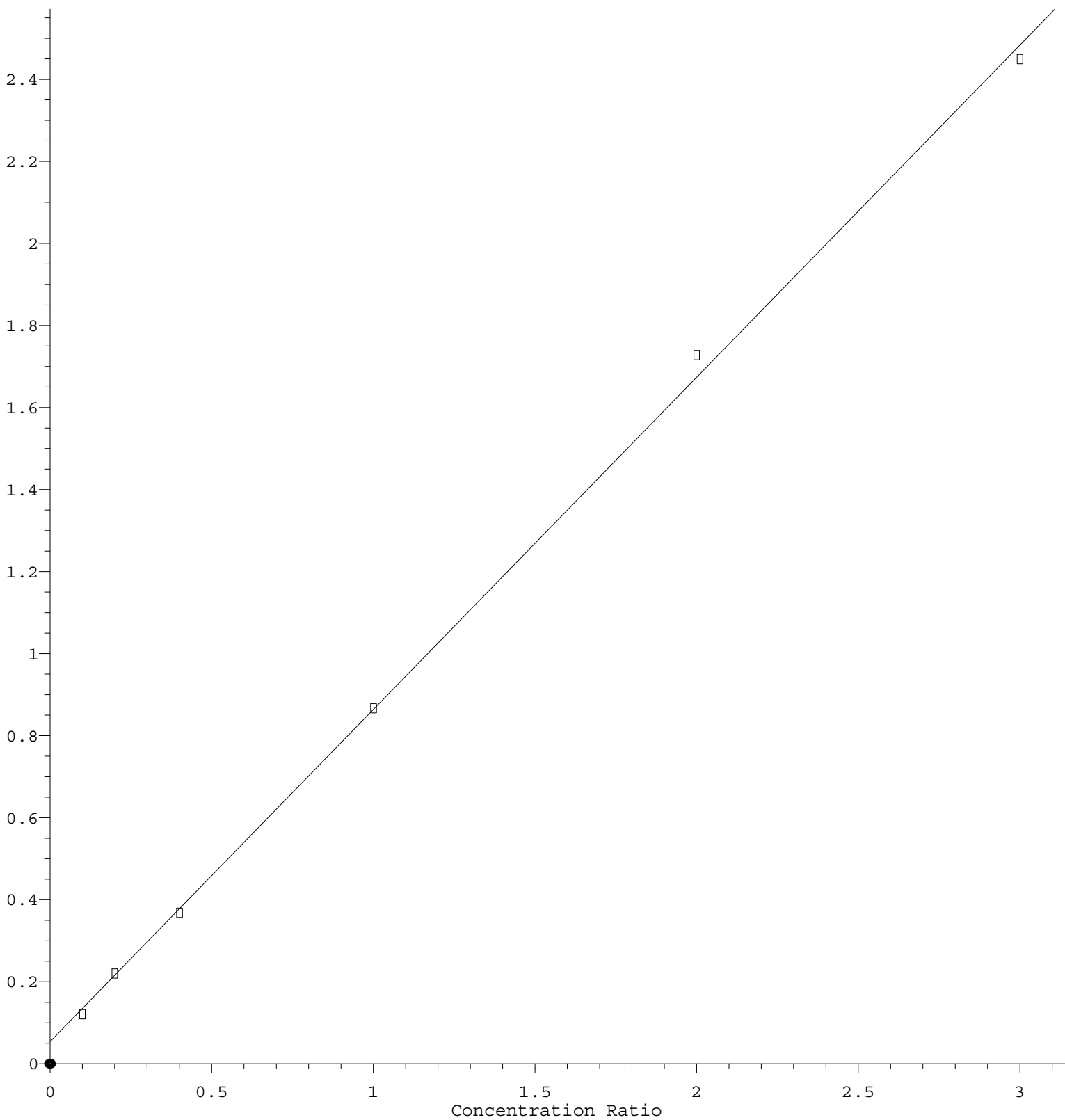
Response Ratio



$R = -2.461e-003 A^2 + 3.256e-001 A + 3.902e-002$
 Coef of Det (r^2) = 0.998486 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y012424S.M
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Cyclohexane

Response Ratio



$$\text{Response} = 8.099\text{e-}001 * \text{Amt} + 5.438\text{e-}002$$

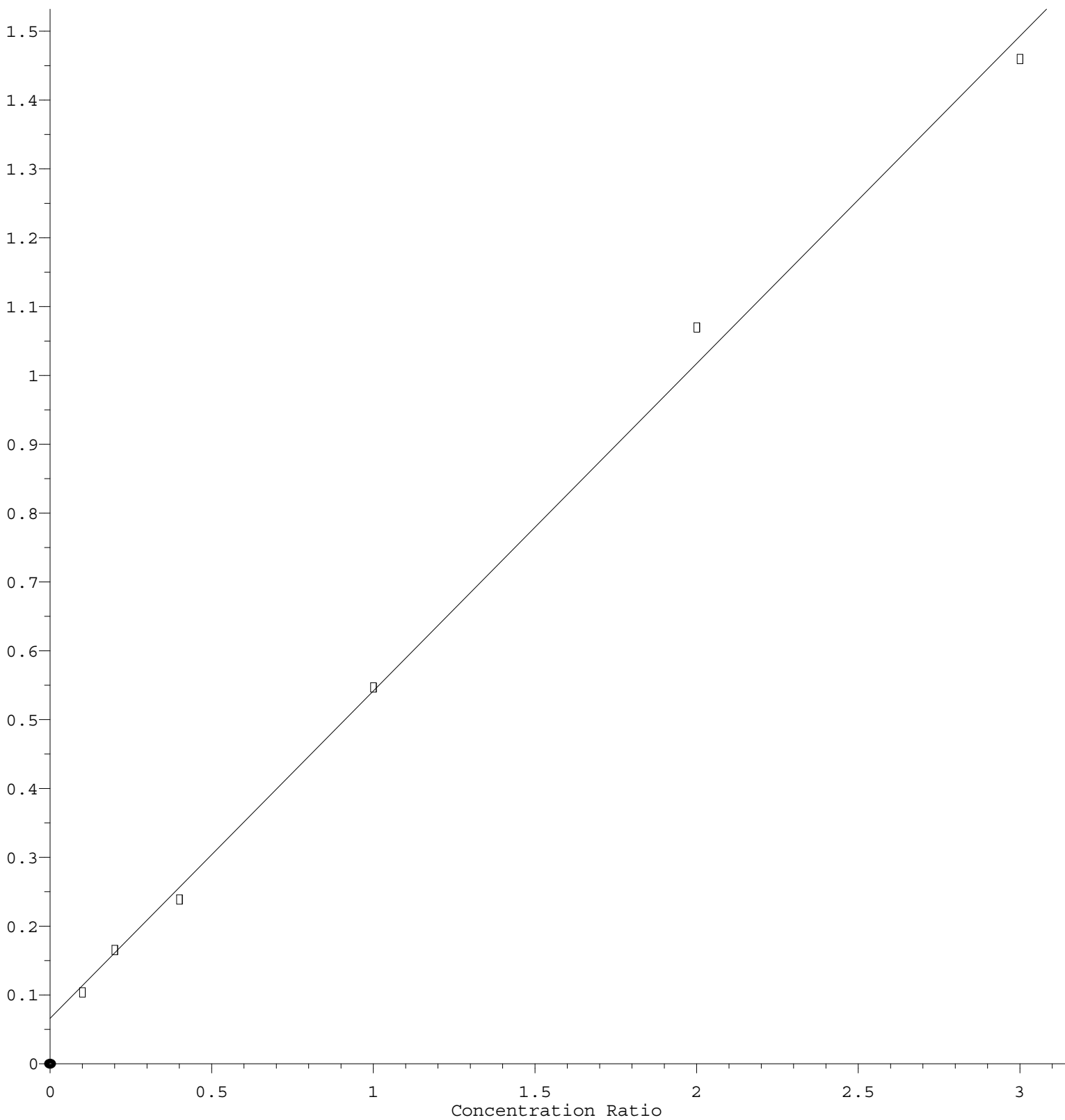
Coef of Det (r^2) = 0.998999 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y012424S.M

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Methylene Chloride

Response Ratio



$$\text{Response} = 4.759\text{e-}001 * \text{Amt} + 6.579\text{e-}002$$

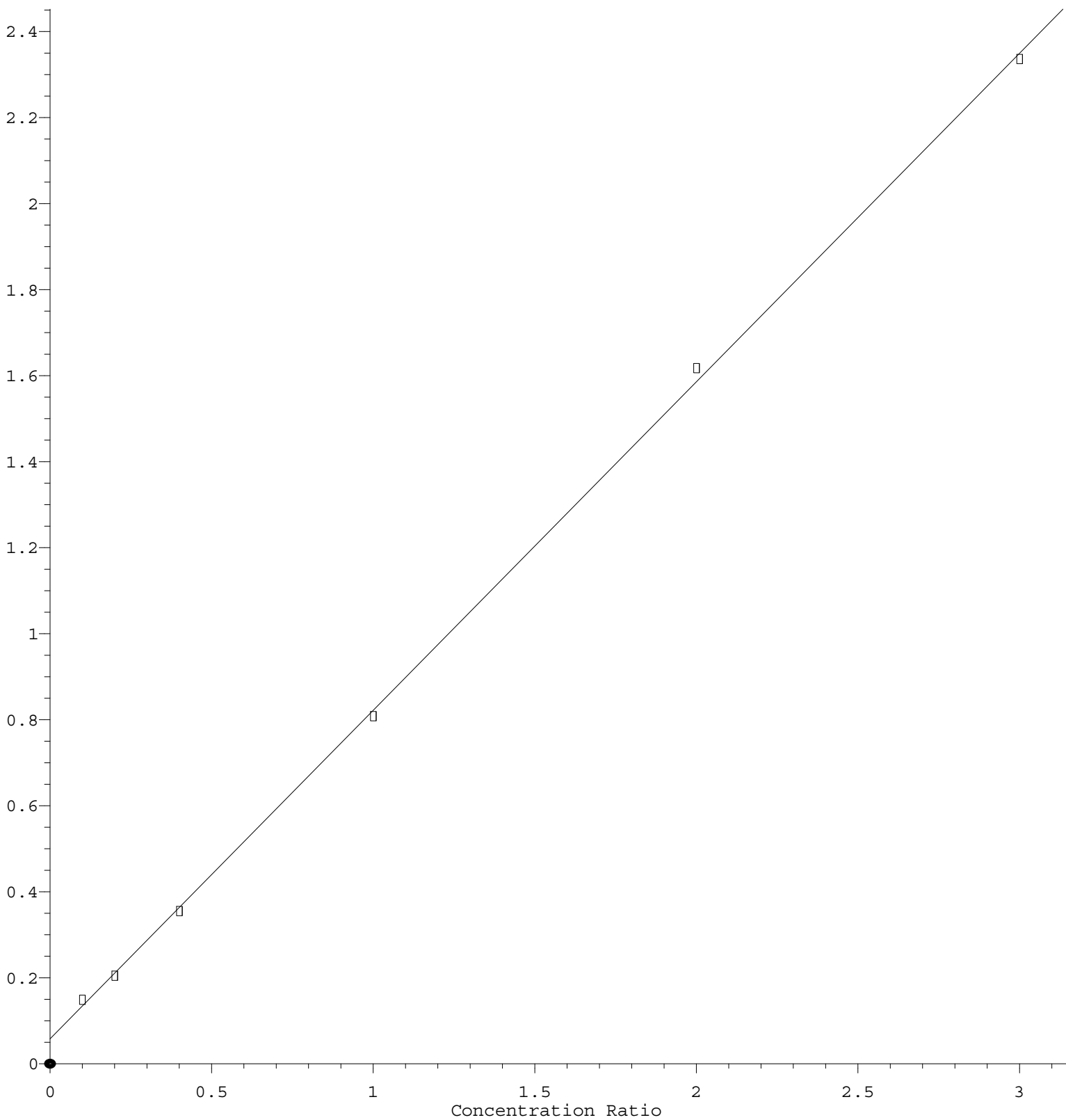
Coef of Det (r^2) = 0.997188 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y012424S.M

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Trichlorofluoromethane

Response Ratio



$$\text{Response} = 7.641\text{e-}001 * \text{Amt} + 5.848\text{e-}002$$

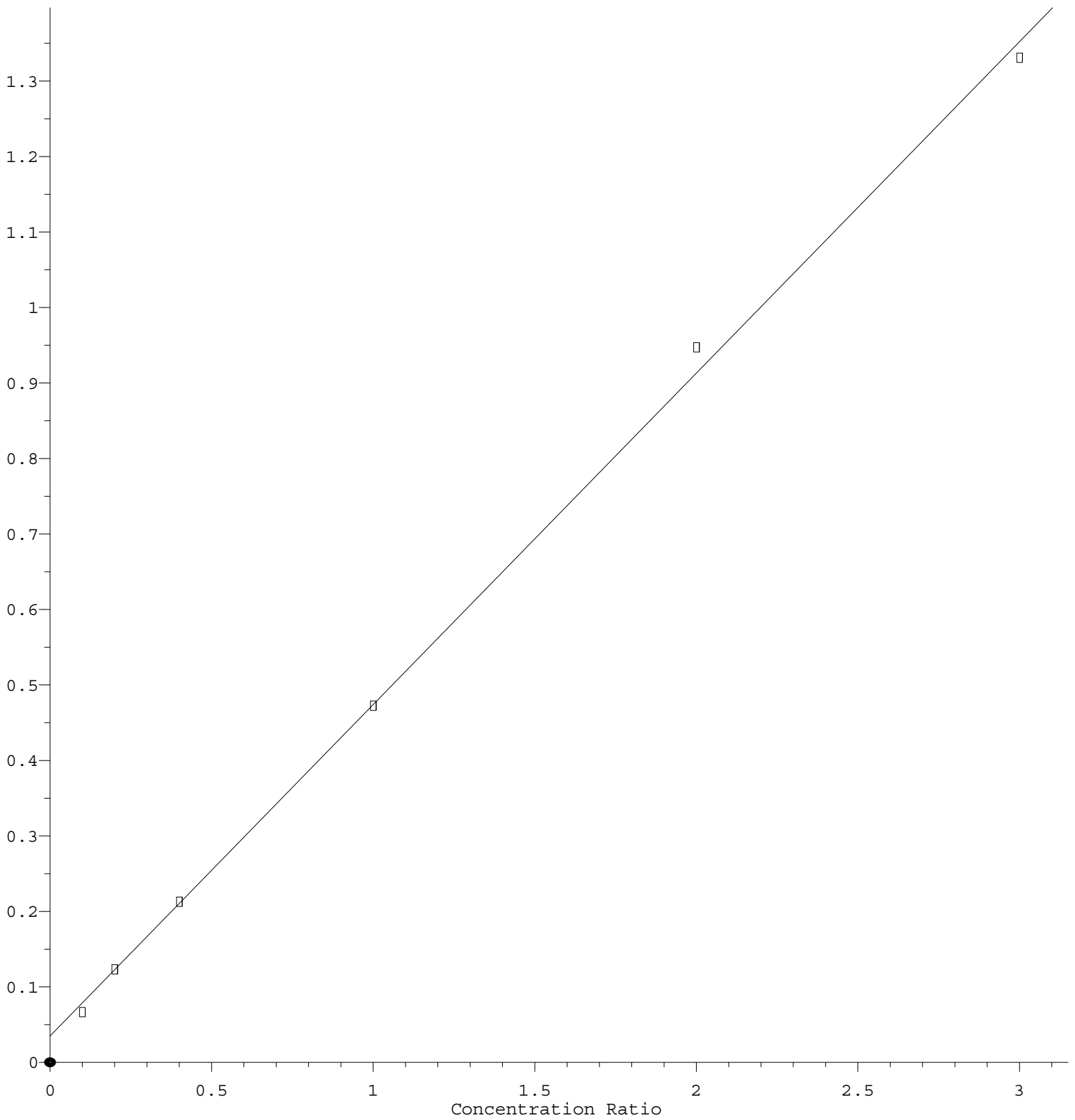
Coef of Det (r^2) = 0.999573 Curve Fit: Linear

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Chloroethane

Response Ratio



$$\text{Response} = 4.391\text{e-}001 * \text{Amt} + 3.509\text{e-}002$$

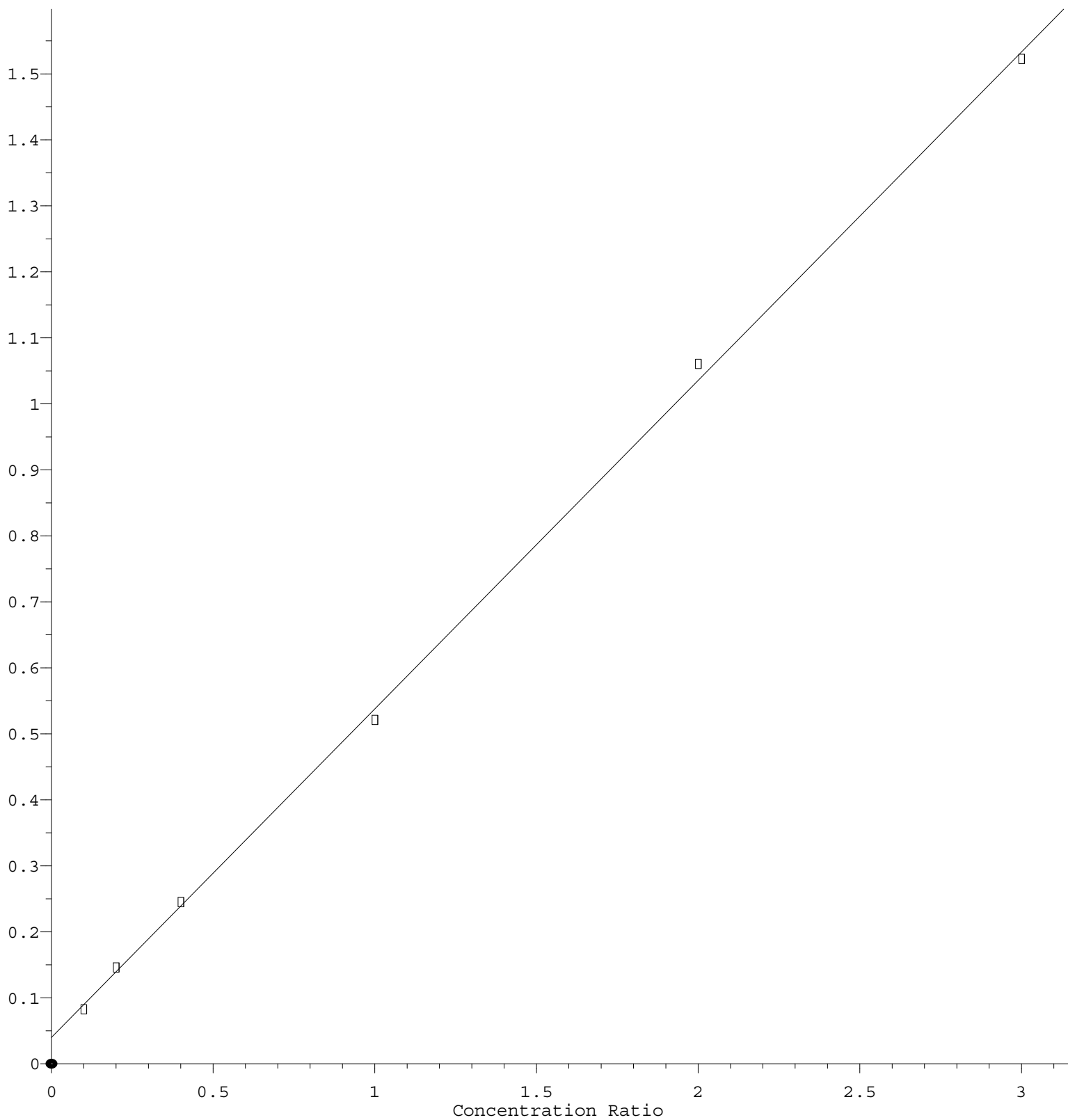
Coef of Det (r^2) = 0.998631 Curve Fit: Linear

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Bromomethane

Response Ratio



$$\text{Response} = 4.980\text{e-}001 * \text{Amt} + 4.014\text{e-}002$$

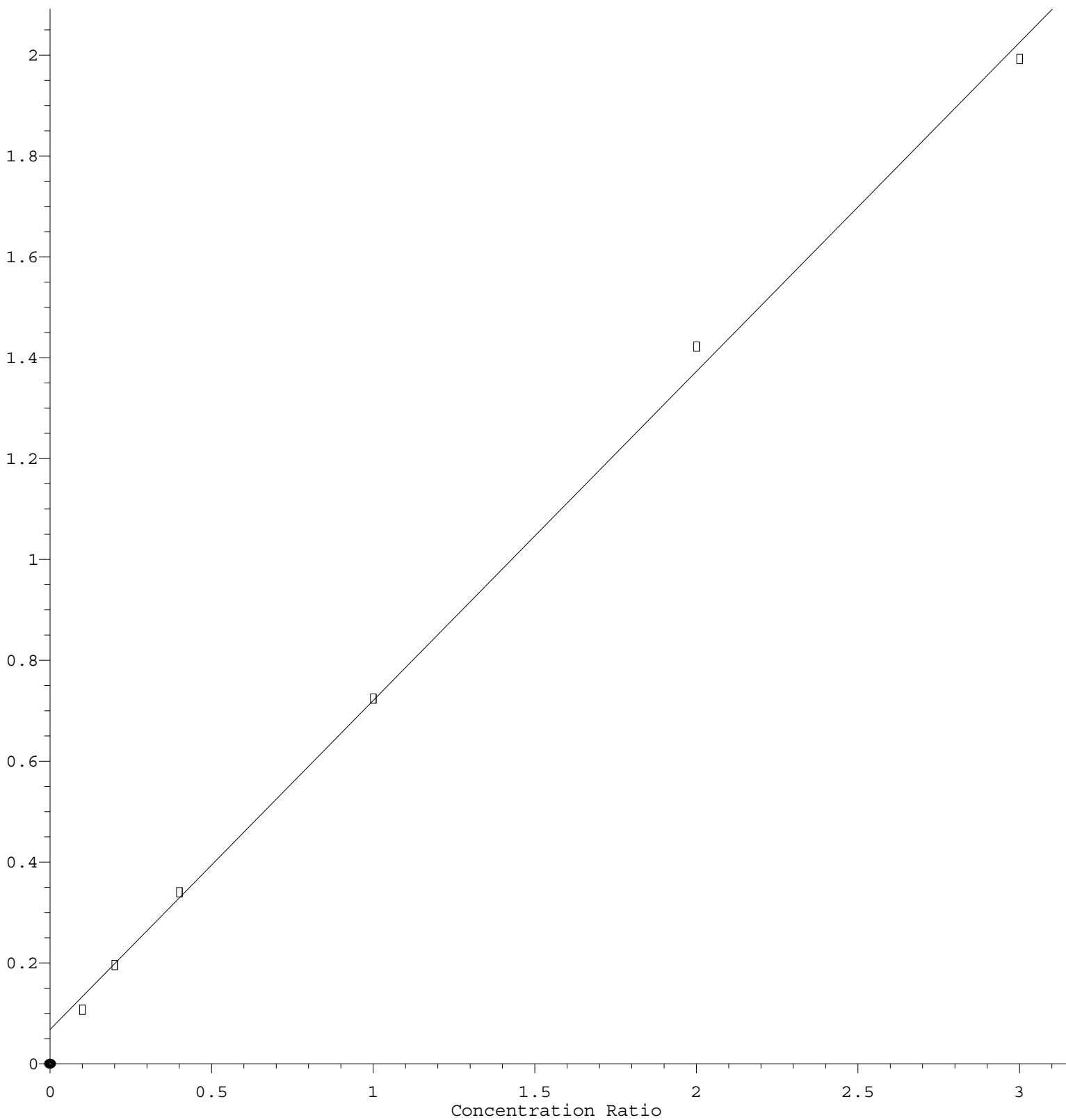
Coef of Det (r^2) = 0.999315 Curve Fit: Linear

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Vinyl Chloride

Response Ratio



$$\text{Response} = 6.527\text{e-}001 * \text{Amt} + 6.799\text{e-}002$$

Coef of Det (r^2) = 0.998495 Curve Fit: Linear

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