

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG030624.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Mar 07 02:50:02 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BG060573.D 5 =BG060574.D 10 =BG060575.D 20 =BG060576.D 40 =BG060577.D 50 =BG060578.D 60 =BG060579.D 80 =BG060580.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.657	0.498	0.561	0.514	0.561	0.535	0.520	0.550		9.64
3)	Pyridine	1.513	1.487	1.511	1.413	1.544	1.494	1.560	1.503		3.16
4)	n-Nitrosodimet...	0.849	0.822	0.858	0.792	0.853	0.849	0.863	0.841		3.01
5) S	2-Fluorophenol	1.171	1.200	1.269	1.188	1.312	1.280	1.286	1.244		4.50
6)	Aniline	1.874	1.791	1.884	1.753	1.907	1.808	1.871	1.841		3.10
7) S	Phenol-d6	1.753	1.808	1.903	1.738	1.936	1.853	1.896	1.841		4.19
8)	2-Chlorophenol	1.091	1.155	1.290	1.272	1.430	1.364	1.420	1.289		10.02
9)	Benzaldehyde	1.330	1.220	1.193	1.023	1.064	1.032	0.965	1.118		11.76
10) C	Phenol	1.702	1.794	1.894	1.713	1.871	1.818	1.881	1.811		4.36
11)	bis(2-Chloroet...	1.465	1.490	1.505	1.362	1.502	1.436	1.462	1.460		3.41
12)	1,3-Dichlorobe...	1.660	1.642	1.691	1.496	1.619	1.607	1.603	1.617		3.82
13) C	1,4-Dichlorobe...	1.717	1.660	1.697	1.563	1.651	1.616	1.634	1.648		3.10
14)	1,2-Dichlorobe...	1.559	1.631	1.631	1.537	1.619	1.607	1.617	1.600		2.32
15)	Benzyl Alcohol	1.213	1.223	1.370	1.283	1.423	1.388	1.470	1.339		7.48
16)	2,2'-oxybis(1-...	2.837	2.717	2.938	2.696	2.960	2.866	2.905	2.845		3.65
17)	2-Methylphenol	1.228	1.240	1.315	1.249	1.367	1.304	1.390	1.299		4.89
18)	Hexachloroethane	0.501	0.451	0.491	0.480	0.552	0.555	0.564	0.513		8.48
19) P	n-Nitroso-di-n...	1.176	1.216	1.158	1.316	1.185	1.309	1.281	1.323	1.245	5.53
20)	3+4-Methylphenols	1.593	1.597	1.803	1.685	1.878	1.837	1.906	1.757		7.45
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.551	0.557	0.569	0.536	0.558	0.593	0.584	0.564		3.47
23) S	Nitrobenzene-d5		0.159	0.196	0.246	0.299	0.349	0.379	0.271		31.85
24)	Nitrobenzene	0.150	0.166	0.213	0.268	0.328	0.380		0.251		36.40
25)	Isophorone	0.835	0.781	0.840	0.784	0.823	0.856	0.850	0.824		3.68
26) C	2-Nitrophenol	0.057	0.058	0.068	0.076	0.096	0.119		0.079		30.89#
27)	2,4-Dimethylph...	0.261	0.237	0.237	0.233	0.248	0.260	0.261	0.248		5.04
28)	bis(2-Chloroet...	0.473	0.450	0.477	0.439	0.463	0.482	0.471	0.465		3.30
29) C	2,4-Dichloroph...	0.194	0.233	0.267	0.280	0.306	0.323	0.325	0.276		17.63
30)	1,2,4-Trichlor...	0.369	0.358	0.344	0.331	0.343	0.358	0.353	0.351		3.50
31)	Naphthalene	1.173	1.177	1.162	1.107	1.124	1.169	1.159	1.153		2.33
32)	Benzoic acid		0.050	0.102	0.127	0.155	0.193	0.220	0.141		43.77
33)	4-Chloroaniline	0.448	0.419	0.430	0.420	0.420	0.444	0.457	0.434		3.58
34) C	Hexachlorobuta...	0.249	0.229	0.242	0.232	0.237	0.247	0.237	0.239		3.10
35)	Caprolactam	0.078	0.092	0.096	0.099	0.101	0.112	0.115	0.099		12.64
36) C	4-Chloro-3-met...	0.299	0.326	0.360	0.354	0.378	0.406	0.408	0.362		11.11
37)	2-Methylnaphth...	0.804	0.764	0.778	0.727	0.755	0.788	0.776	0.770		3.21
38)	1-Methylnaphth...	0.833	0.770	0.774	0.716	0.755	0.772	0.771	0.770		4.47

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39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.609	0.606	0.620	0.591	0.649	0.636	0.607	0.617	3.23
41) P	Hexachlorocycl...		0.140	0.177	0.187	0.214	0.226	0.228	0.195	17.34
42) S	2,4,6-Tribromo...		0.168	0.198	0.220	0.243	0.255	0.265	0.225	16.52
43) C	2,4,6-Trichlor...	0.224	0.283	0.335	0.356	0.395	0.406	0.407	0.344	20.20
44)	2,4,5-Trichlor...	0.258	0.320	0.377	0.393	0.439	0.448	0.444	0.383	18.75
45) S	2-Fluorobiphenyl	1.600	1.567	1.575	1.442	1.537	1.495	1.429	1.521	4.40
46)	1,1'-Biphenyl	1.577	1.578	1.587	1.493	1.585	1.581	1.535	1.563	2.27
47)	2-Chloronaphth...	1.247	1.257	1.287	1.200	1.277	1.268	1.236	1.253	2.34
48)	2-Nitroaniline	0.131	0.126	0.160	0.213	0.277	0.324	0.358	0.227	41.41
49)	Acenaphthylene	1.902	1.925	1.914	1.835	1.927	1.917	1.883	1.901	1.71
50)	Dimethylphthalate	1.383	1.445	1.507	1.437	1.540	1.553	1.530	1.485	4.31
51)	2,6-Dinitrotol...	0.091	0.098	0.136	0.165	0.214	0.244	0.279	0.175	41.43
52) C	Acenaphthene	1.236	1.234	1.187	1.105	1.176	1.172	1.155	1.181	3.87
53)	3-Nitroaniline	0.101	0.118	0.149	0.187	0.235	0.275	0.307	0.196	40.28
54) P	2,4-Dinitrophenol		0.056	0.068	0.074	0.088	0.099	0.116	0.084	26.32
55)	Dibenzofuran	1.952	1.927	1.892	1.777	1.862	1.850	1.831	1.870	3.17
56) P	4-Nitrophenol		0.106	0.135	0.160	0.191	0.225	0.255	0.179	31.44
57)	2,4-Dinitrotol...	0.141	0.146	0.167	0.203	0.255	0.303	0.345	0.223	35.81
58)	Fluorene	1.596	1.583	1.562	1.470	1.494	1.514	1.495	1.530	3.23
59)	2,3,4,6-Tetrac...	0.226	0.269	0.306	0.329	0.366	0.372	0.385	0.322	18.20
60)	Diethylphthalate	1.410	1.534	1.610	1.551	1.599	1.627	1.636	1.567	5.02
61)	4-Chlorophenyl...	0.812	0.795	0.779	0.728	0.738	0.752	0.749	0.765	4.08
62)	4-Nitroaniline	0.126	0.160	0.187	0.229	0.271	0.315	0.344	0.233	34.74
63)	Azobenzene	1.646	1.678	1.650	1.576	1.622	1.641	1.634	1.635	1.90
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...		0.035	0.042	0.048	0.057	0.066	0.074	0.054	27.40
66) c	n-Nitrosodiphe...	0.597	0.616	0.623	0.587	0.609	0.606	0.594	0.605	2.09
67)	4-Bromophenyl-...	0.232	0.219	0.227	0.217	0.226	0.222	0.221	0.223	2.25
68)	Hexachlorobenzene	0.267	0.254	0.270	0.256	0.268	0.267	0.261	0.263	2.33
69)	Atrazine	0.156	0.172	0.172	0.165	0.144	0.128	0.116	0.150	14.68
70) C	Pentachlorophenol		0.096	0.113	0.132	0.148	0.156	0.159	0.134	18.98
71)	Phenanthrene	1.103	1.091	1.088	1.030	1.047	1.050	1.031	1.063	2.88
72)	Anthracene	1.056	1.087	1.071	1.030	1.041	1.060	1.038	1.055	1.90
73)	Carbazole	1.032	1.024	0.988	0.957	0.964	0.990	0.984	0.991	2.82
74)	Di-n-butylphth...	0.911	1.025	1.154	1.165	1.177	1.201	1.194	1.118	9.75
75) C	Fluoranthene	1.288	1.336	1.280	1.221	1.210	1.232	1.233	1.257	3.64
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.351	0.233	0.128	0.288	0.167	0.226	0.192	0.226	33.15
78)	Pyrene	1.453	1.476	1.490	1.380	1.433	1.432	1.350	1.431	3.51
79) S	Terphenyl-d14	1.240	1.211	1.216	1.081	1.092	1.060	0.947	1.121	9.50
80)	Butylbenzylphth...	0.314	0.376	0.456	0.481	0.540	0.563	0.549	0.468	20.12
81)	Benzo(a)anthra...	1.390	1.377	1.396	1.339	1.381	1.410	1.368	1.380	1.64
82)	3,3'-Dichlorob...	0.375	0.423	0.445	0.449	0.458	0.466	0.454	0.439	7.12
83)	Chrysene	1.394	1.357	1.336	1.277	1.347	1.362	1.315	1.341	2.78
84)	Bis(2-ethylhex...	0.515	0.581	0.717	0.741	0.818	0.833	0.812	0.717	17.34
85) c	Di-n-octyl pht...		0.890	1.117	1.209	1.360	1.404	1.369	1.225	16.15

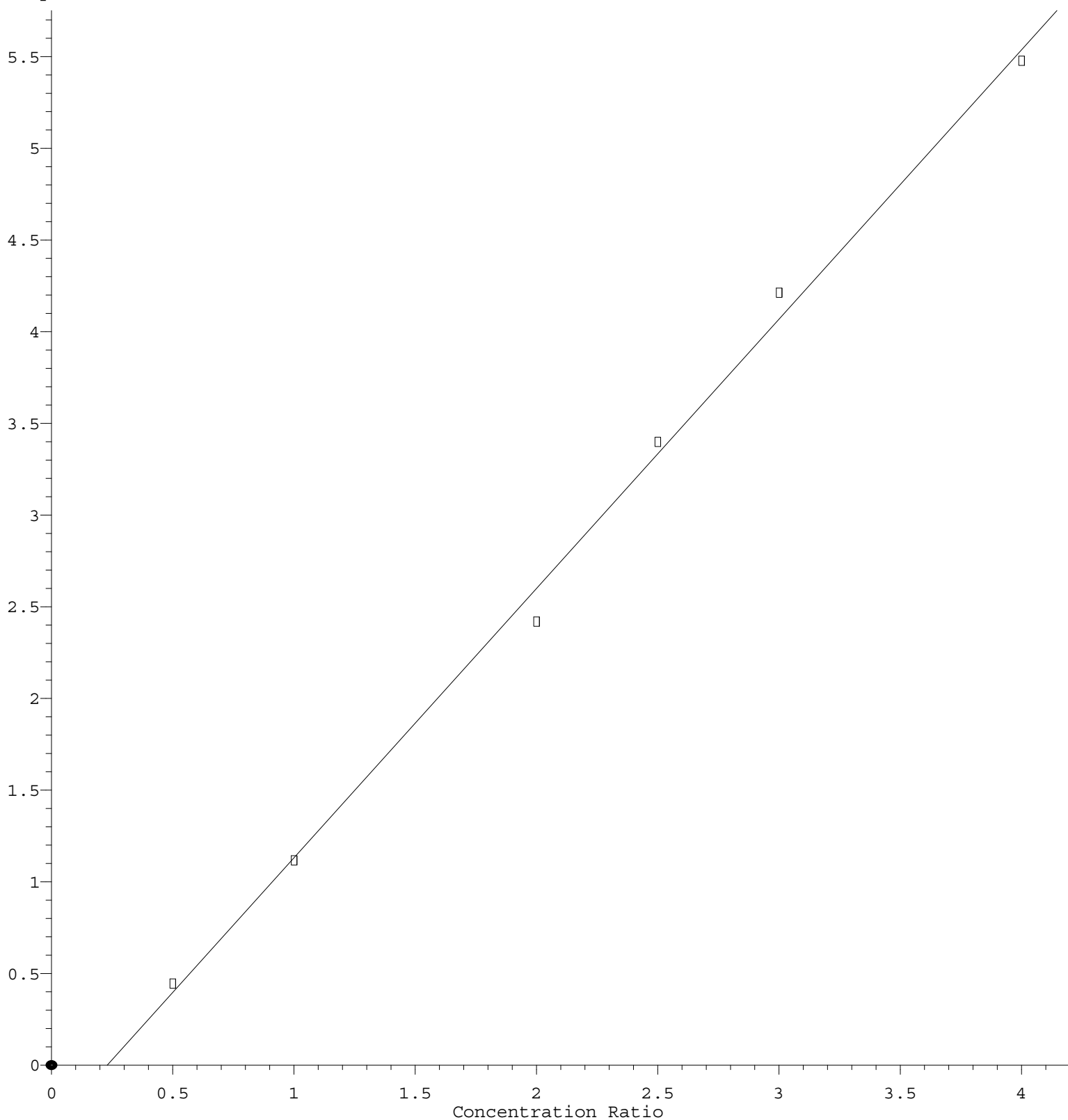
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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.328	1.331	1.384	1.359	1.420	1.445	1.449	1.388	3.68
88)	Benzo(b)fluora...	1.208	1.147	1.196	1.167	1.178	1.202	1.201	1.186	1.88
89)	Benzo(k)fluora...	1.134	1.176	1.199	1.137	1.188	1.208	1.167	1.173	2.44
90) C	Benzo(a)pyrene	0.999	1.009	1.054	1.023	1.052	1.084	1.068	1.041	3.03
91)	Dibenzo(a,h)an...	1.029	1.114	1.139	1.132	1.163	1.208	1.202	1.141	5.33
92)	Benzo(g,h,i)pe...	1.120	1.125	1.166	1.132	1.174	1.207	1.212	1.162	3.29

(#) = Out of Range

Di-n-octyl phthalate

Response Ratio



$$\text{Response} = 1.469\text{e}+000 * \text{Amt} - 3.371\text{e}-001$$

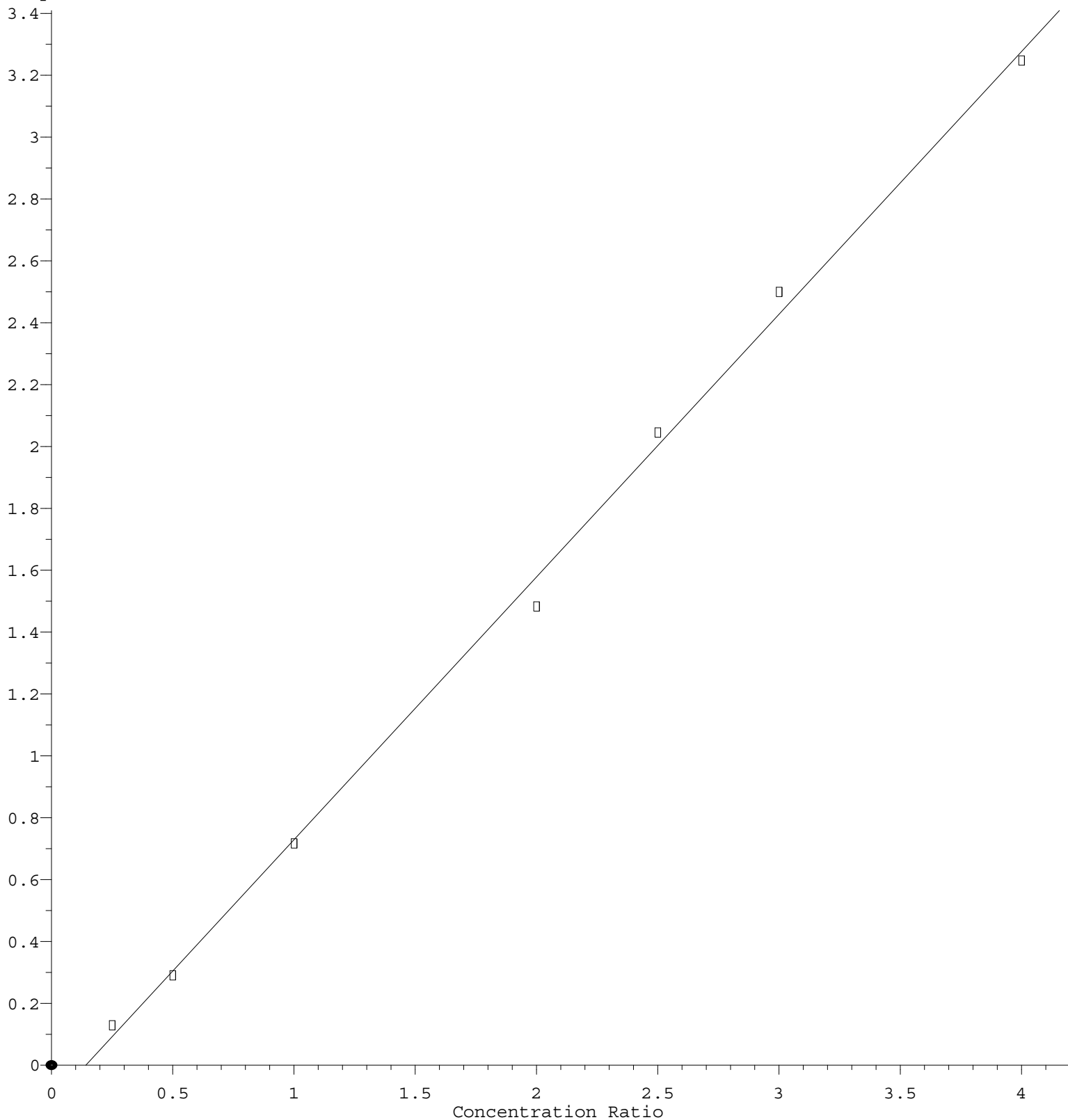
Coef of Det (r^2) = 0.996460 Curve Fit: Linear

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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 8.496\text{e-}001 * \text{Amt} - 1.209\text{e-}001$$

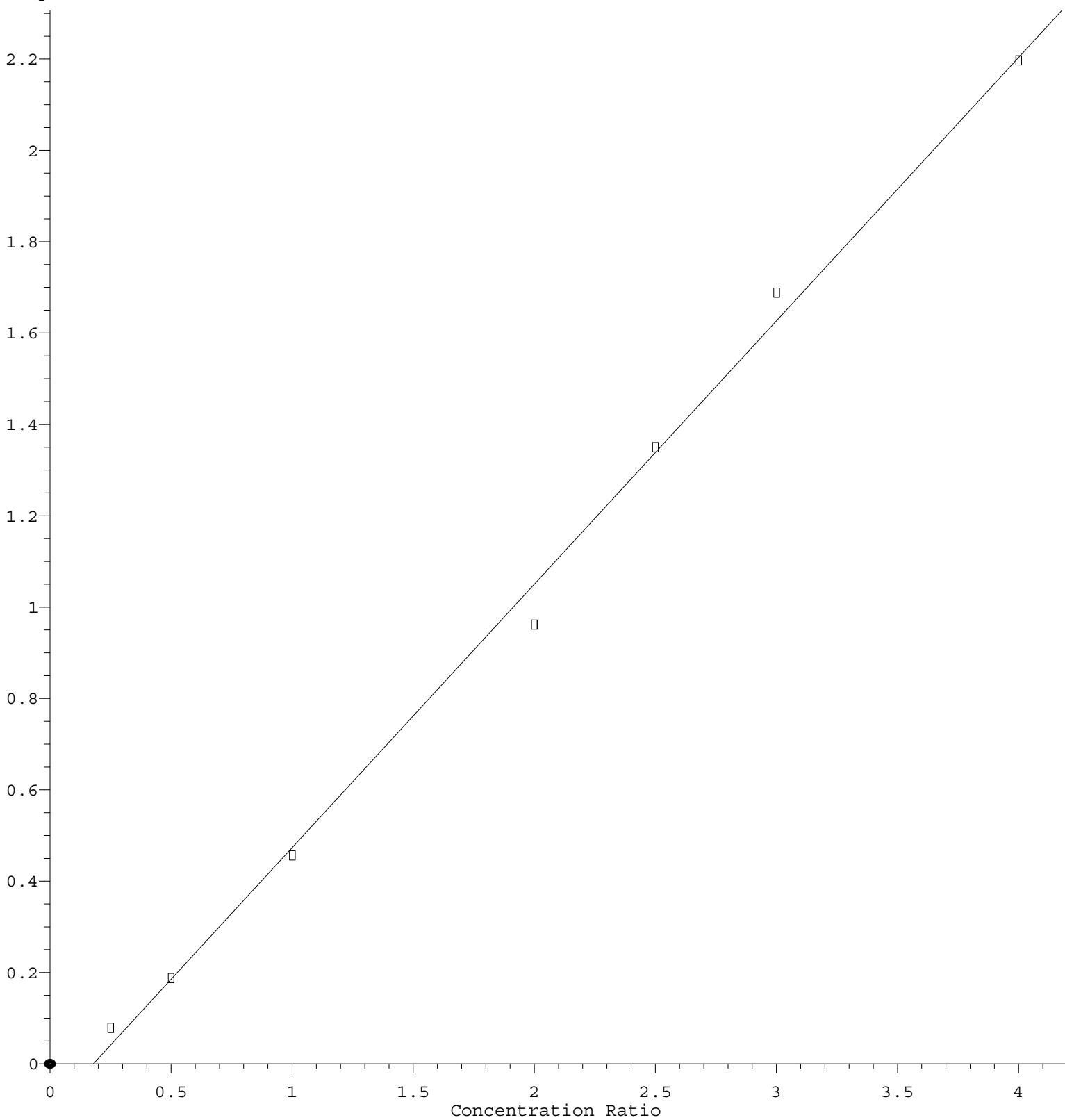
Coef of Det (r^2) = 0.997748 Curve Fit: Linear

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Butylbenzylphthalate

Response Ratio



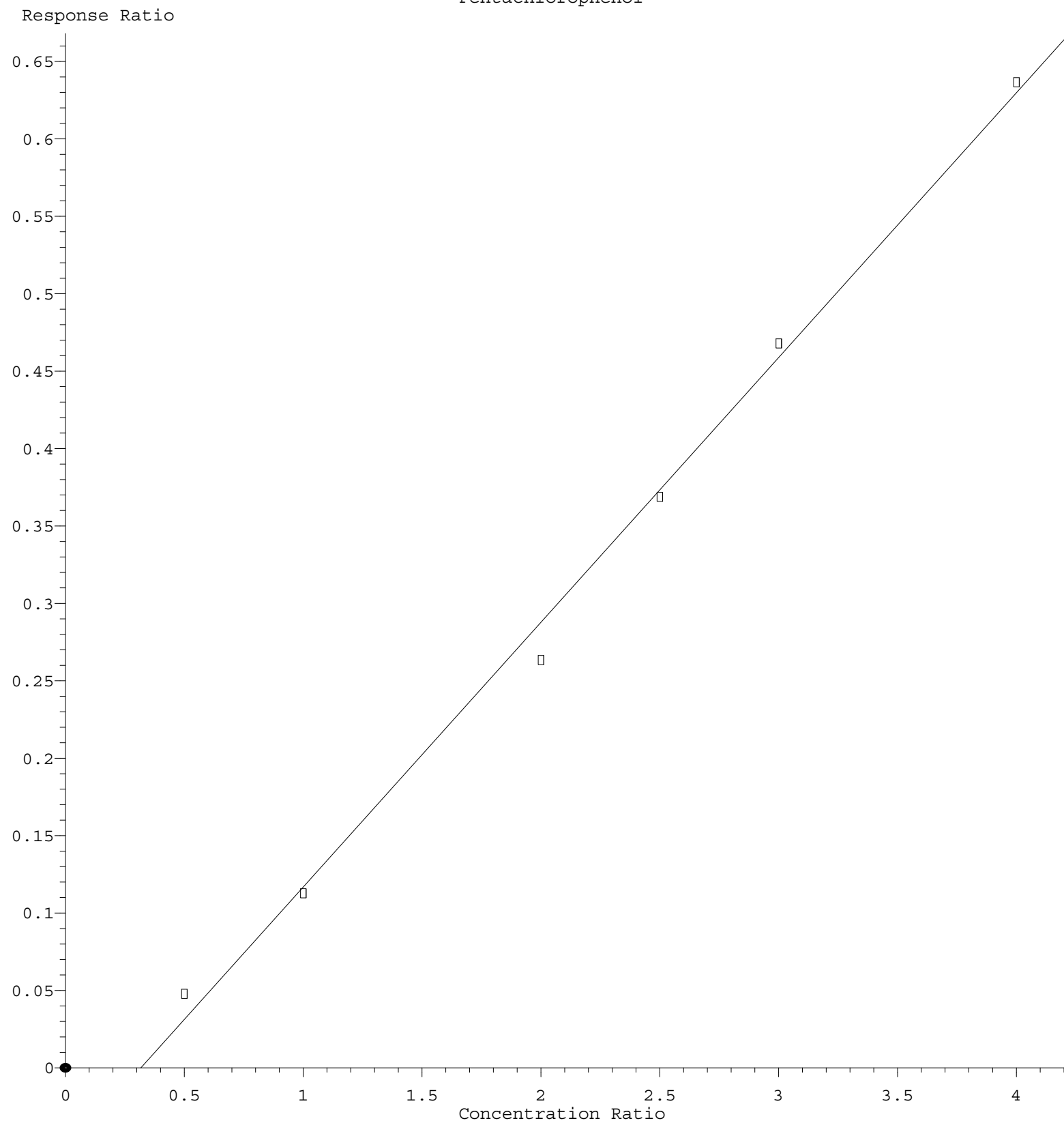
$$\text{Response} = 5.768\text{e-}001 * \text{Amt} - 1.033\text{e-}001$$

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

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030624.M

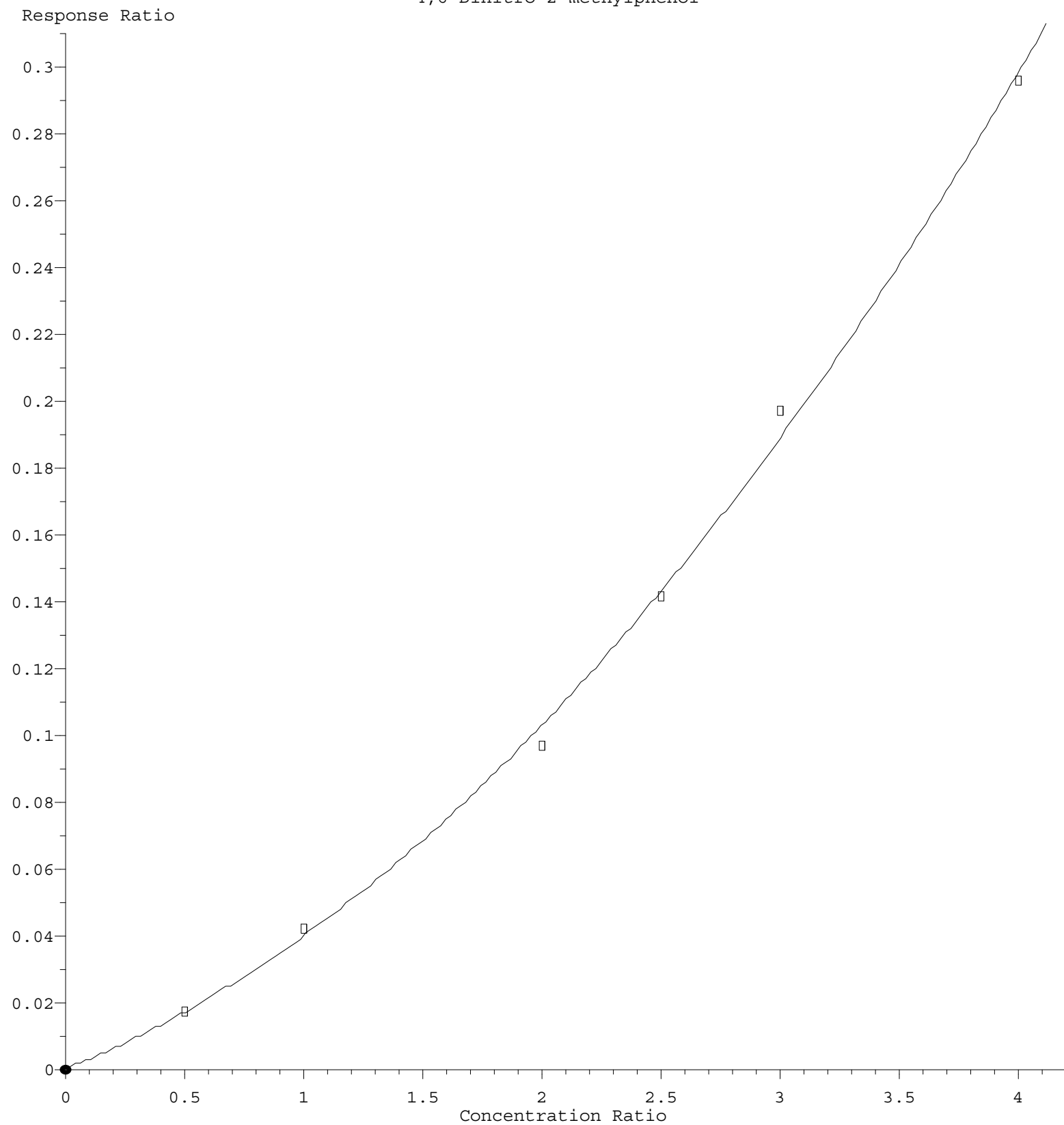
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Pentachlorophenol



Response = 1.710e-001 * Amt - 5.421e-002
 Coef of Det (r^2) = 0.995774 Curve Fit: Linear
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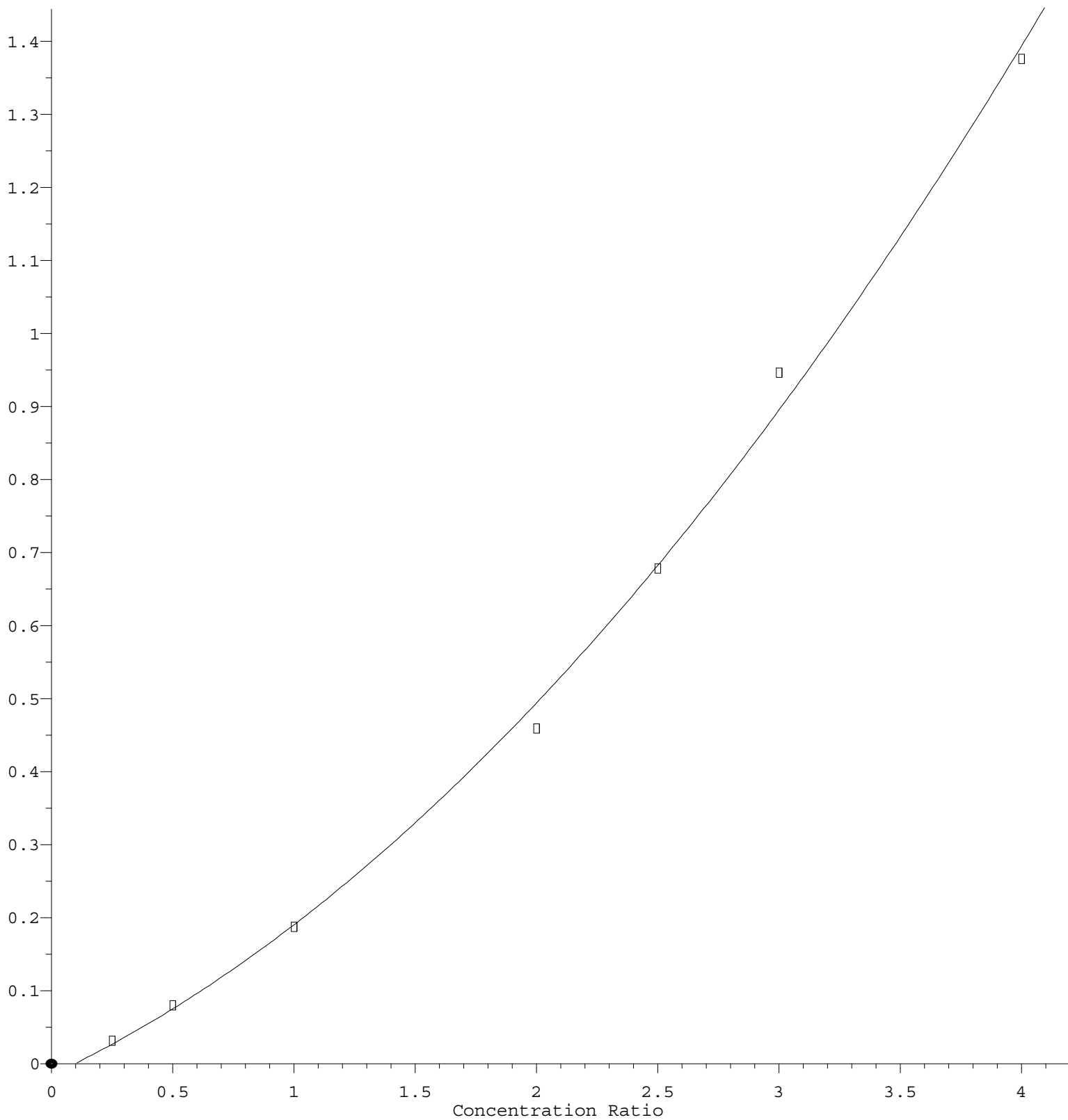
4,6-Dinitro-2-methylphenol



$R = 1.157e-002 A^2 + 2.823e-002 A + 3.043e-004$
Coef of Det (r^2) = 0.997862 Curve Fit: Quadratic
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4-Nitroaniline

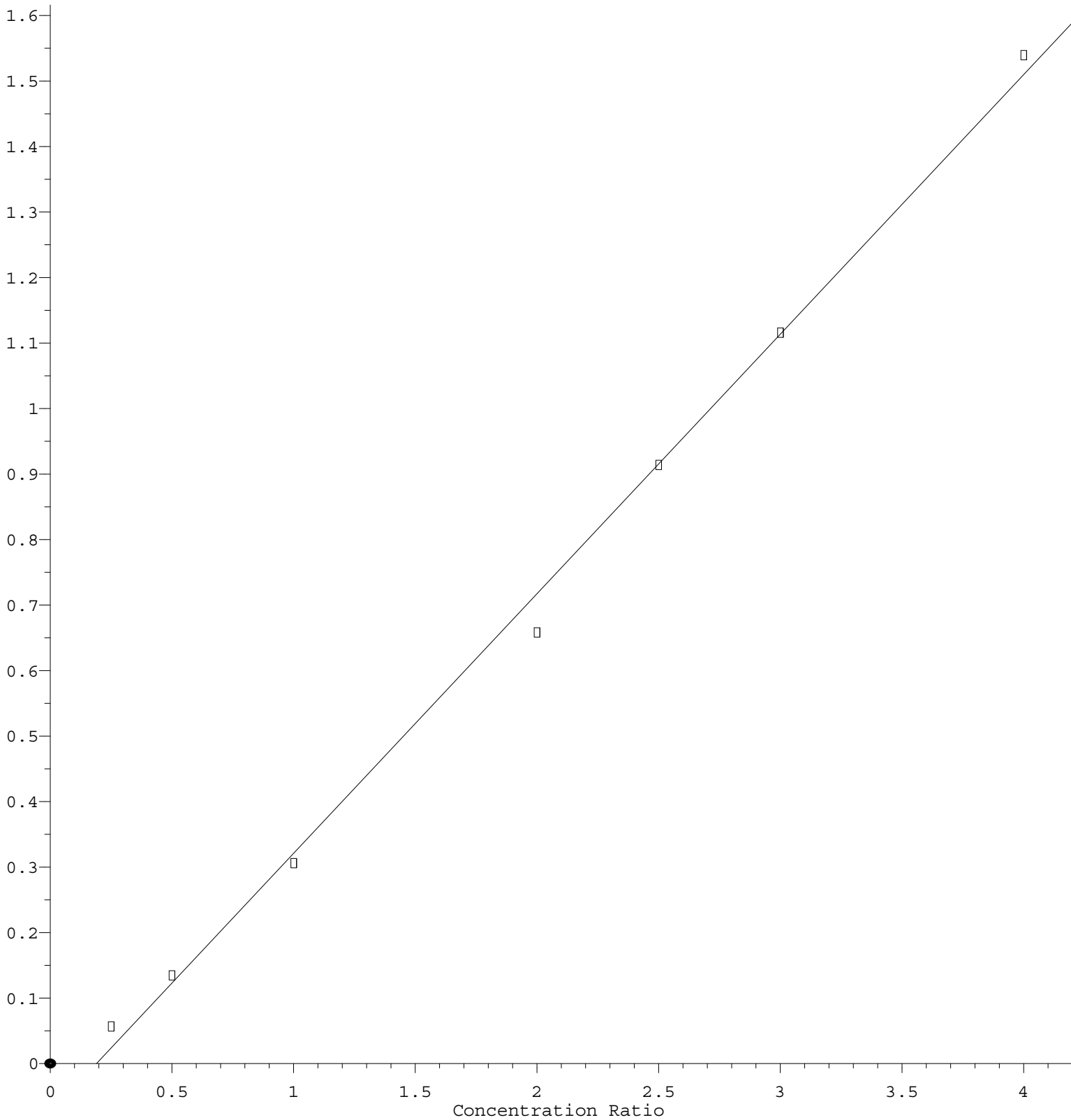
Response Ratio



$R = 4.877e-002 A^2 + 1.573e-001 A - 1.565e-002$
Coef of Det (r^2) = 0.997142 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030624.M
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2,3,4,6-Tetrachlorophenol

Response Ratio



$$\text{Response} = 3.963\text{e-}001 * \text{Amt} - 7.530\text{e-}002$$

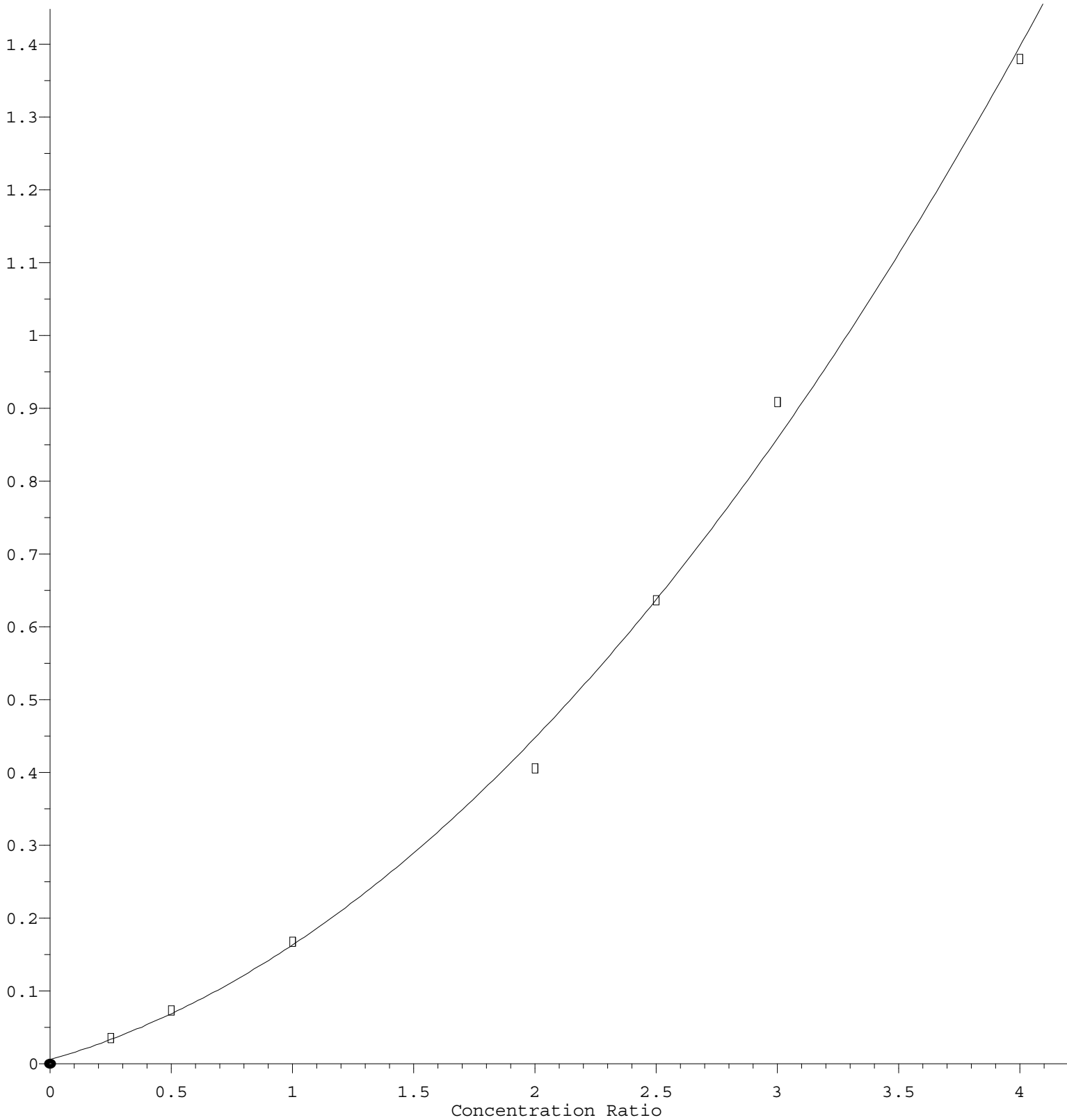
Coef of Det (r^2) = 0.996786 Curve Fit: Linear

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2,4-Dinitrotoluene

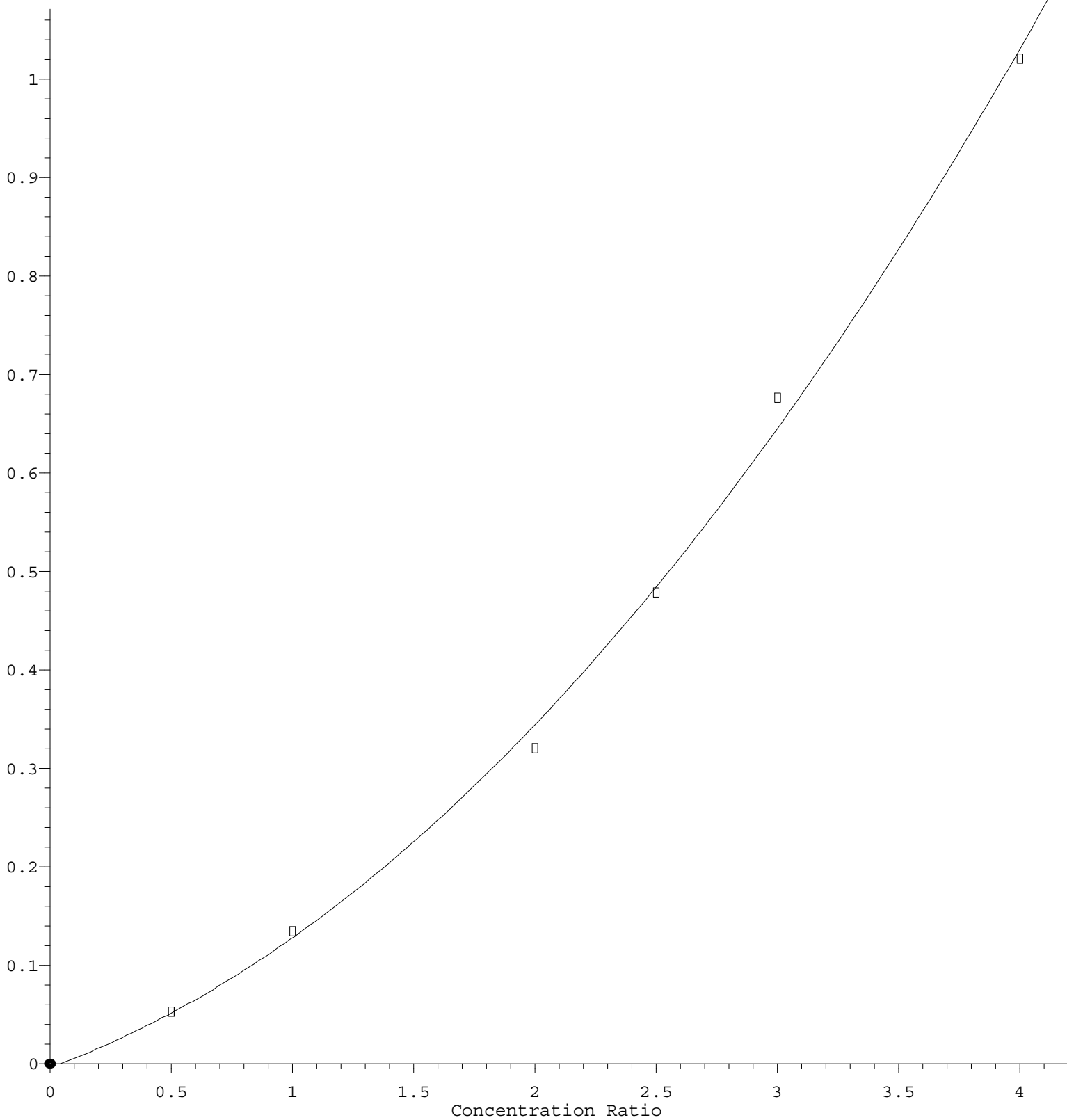
Response Ratio



$R = 6.346e-002 A^2 + 9.390e-002 A + 5.932e-003$
 Coef of Det (r^2) = 0.996894 Curve Fit: Quadratic
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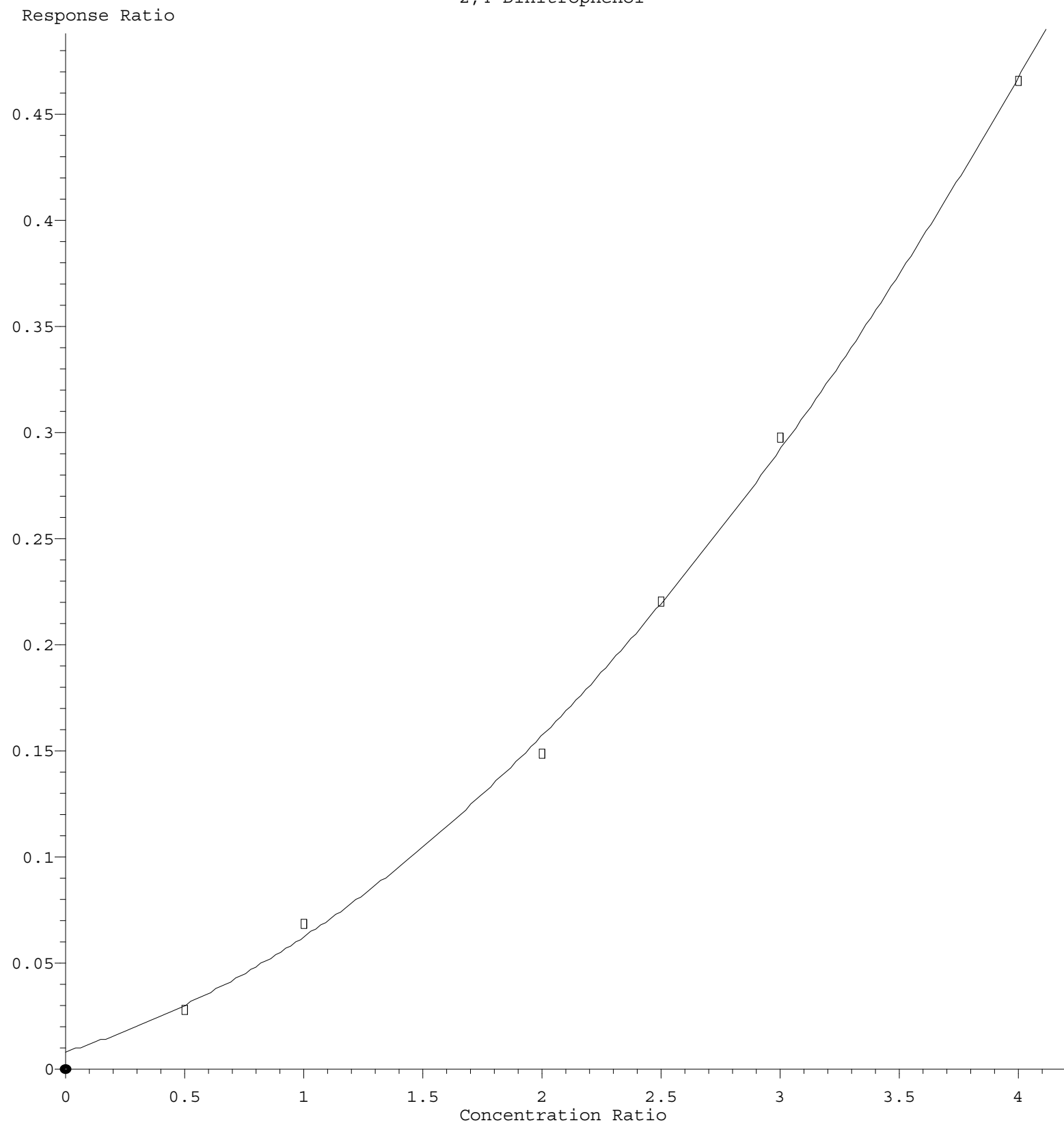
4-Nitrophenol

Response Ratio



$R = 4.229e-002 A^2 + 8.944e-002 A - 3.752e-003$
 Coef of Det (r^2) = 0.997363 Curve Fit: Quadratic
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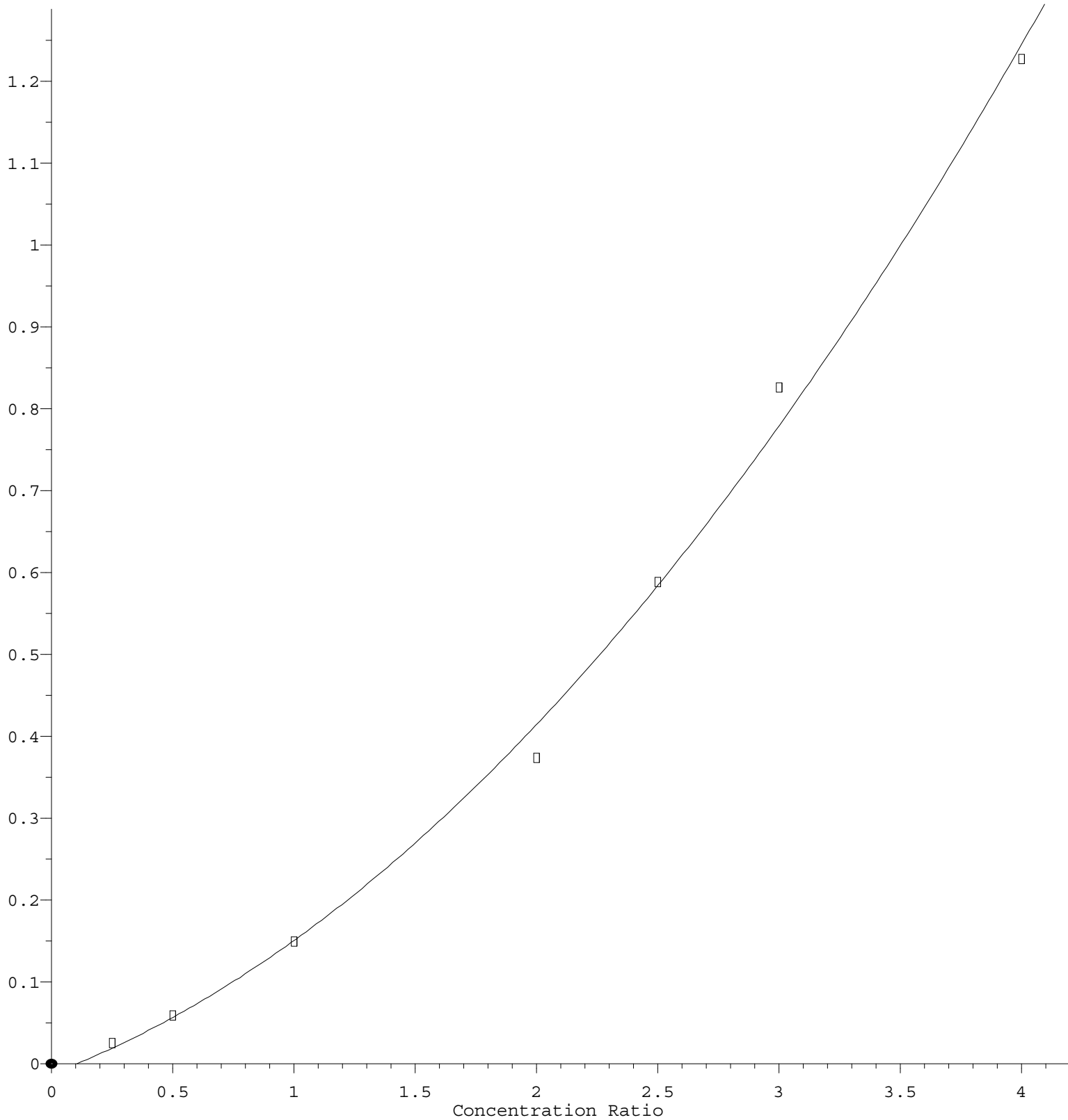
2,4-Dinitrophenol



$R = 2.016e-002 A^2 + 3.420e-002 A + 8.052e-003$
 Coef of Det (r^2) = 0.998870 Curve Fit: Quadratic
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3-Nitroaniline

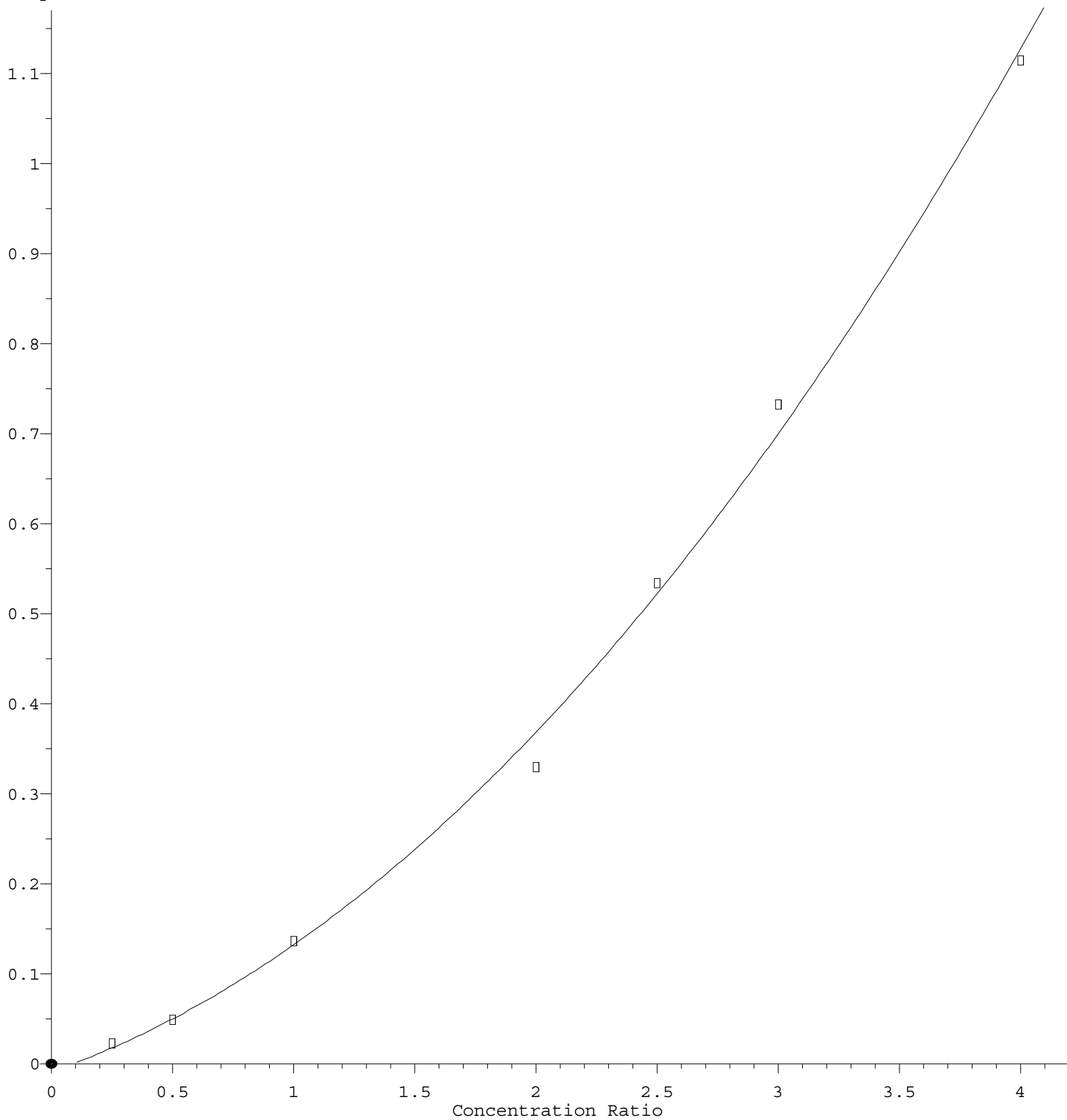
Response Ratio



$R = 5.053e-002 A^2 + 1.122e-001 A - 1.217e-002$
 Coef of Det (r^2) = 0.996436 Curve Fit: Quadratic
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2,6-Dinitrotoluene

Response Ratio



$$R = 4.779e-002 A^2 + 9.287e-002 A - 8.501e-003$$

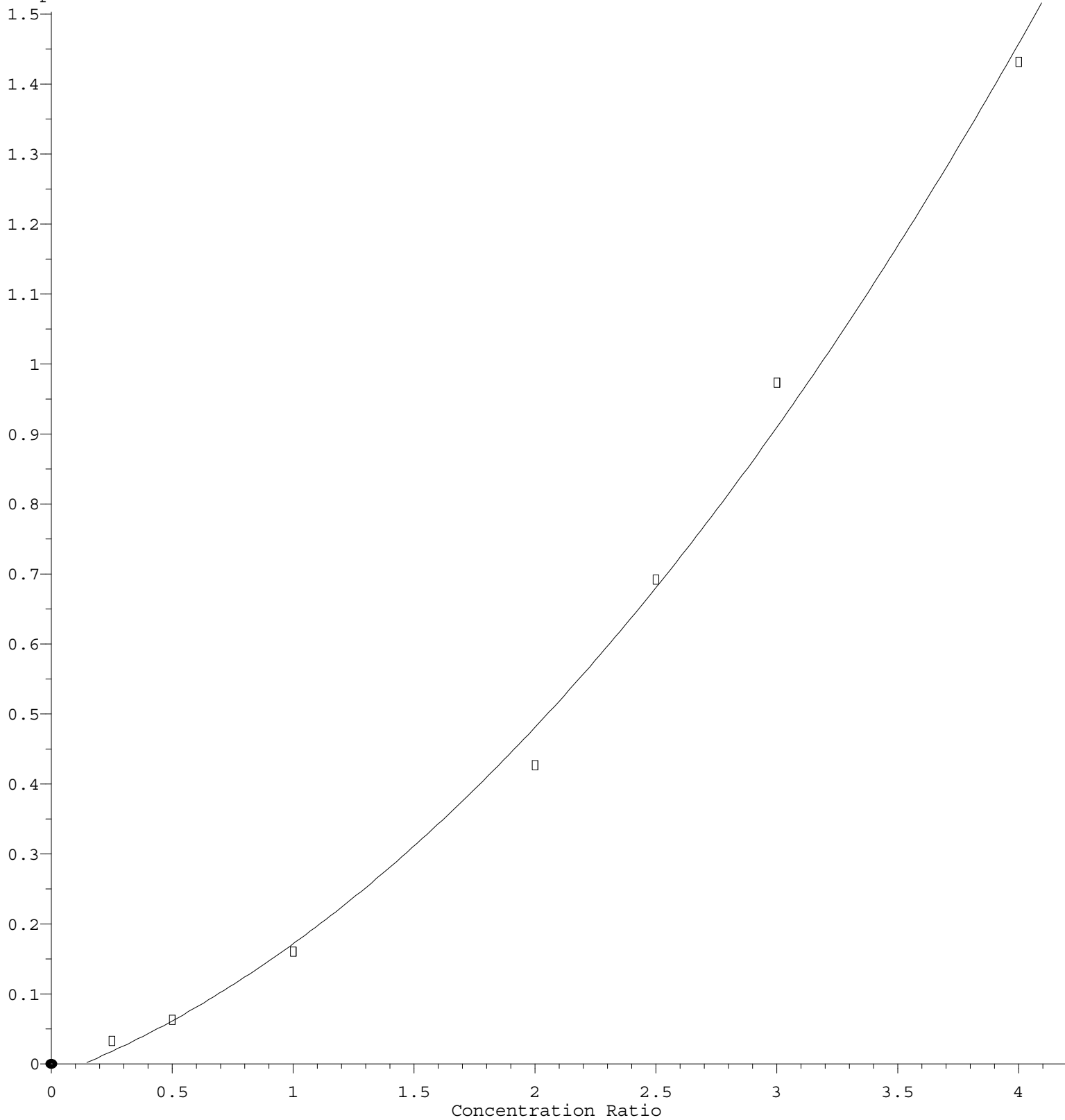
Coef of Det (r^2) = 0.997044 Curve Fit: Quadratic

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2-Nitroaniline

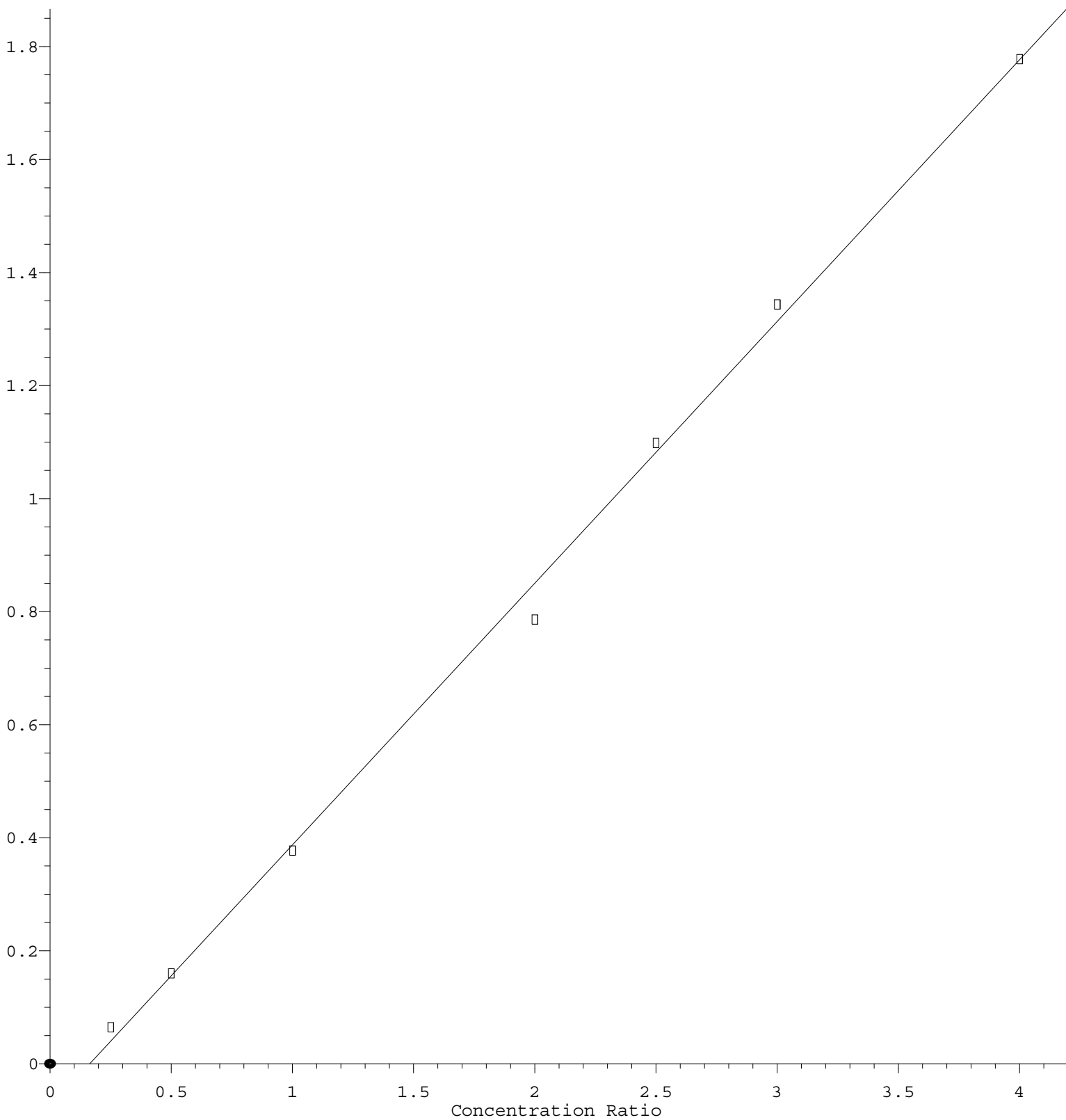
Response Ratio



$R = 5.966e-002 A^2 + 1.304e-001 A - 1.851e-002$
Coef of Det (r^2) = 0.995067 Curve Fit: Quadratic
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2,4,5-Trichlorophenol

Response Ratio



$$\text{Response} = 4.632\text{e-}001 * \text{Amt} - 7.578\text{e-}002$$

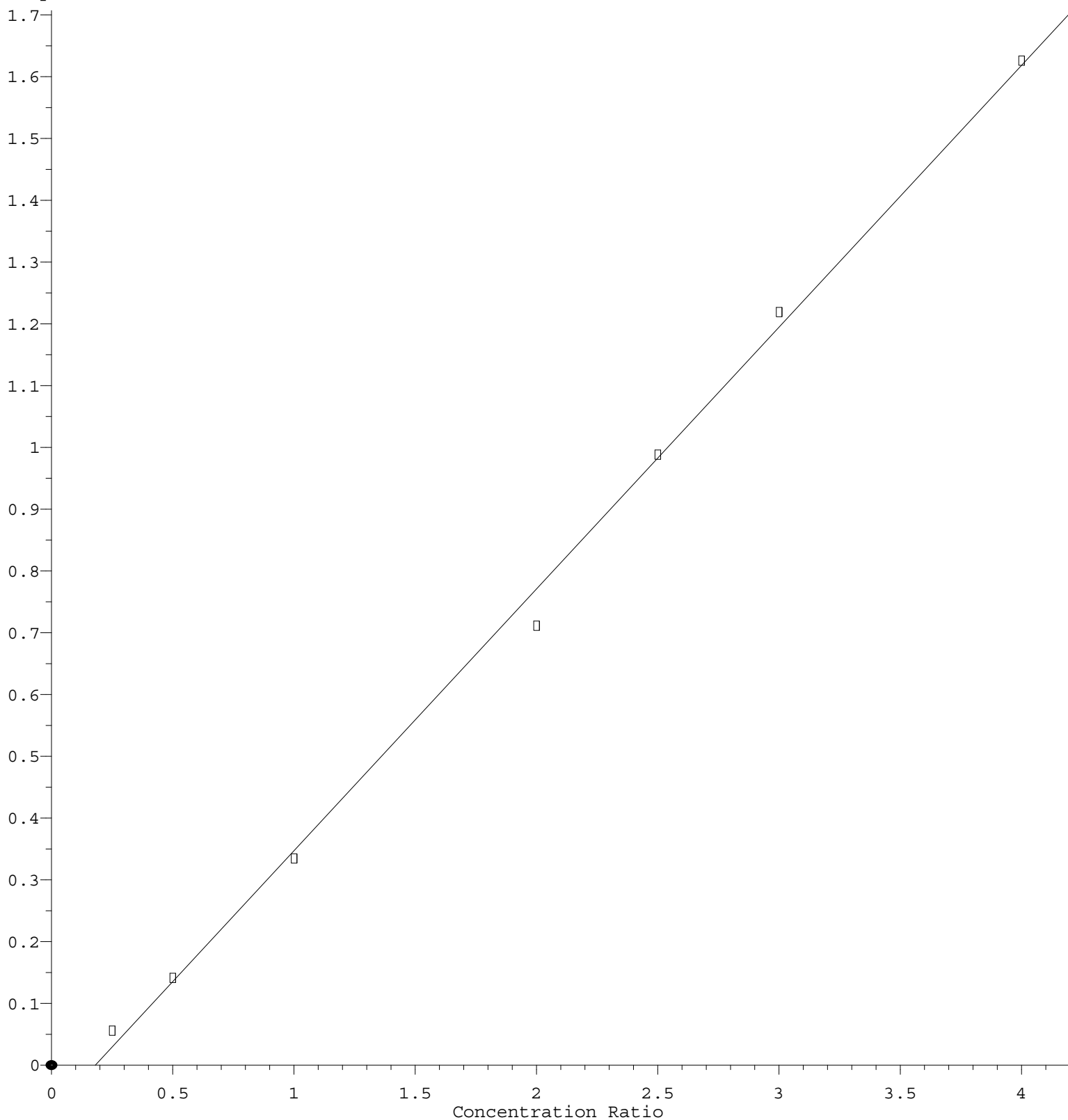
Coef of Det (r^2) = 0.997549 Curve Fit: Linear

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2,4,6-Trichlorophenol

Response Ratio



$$\text{Response} = 4.237\text{e-}001 * \text{Amt} - 7.676\text{e-}002$$

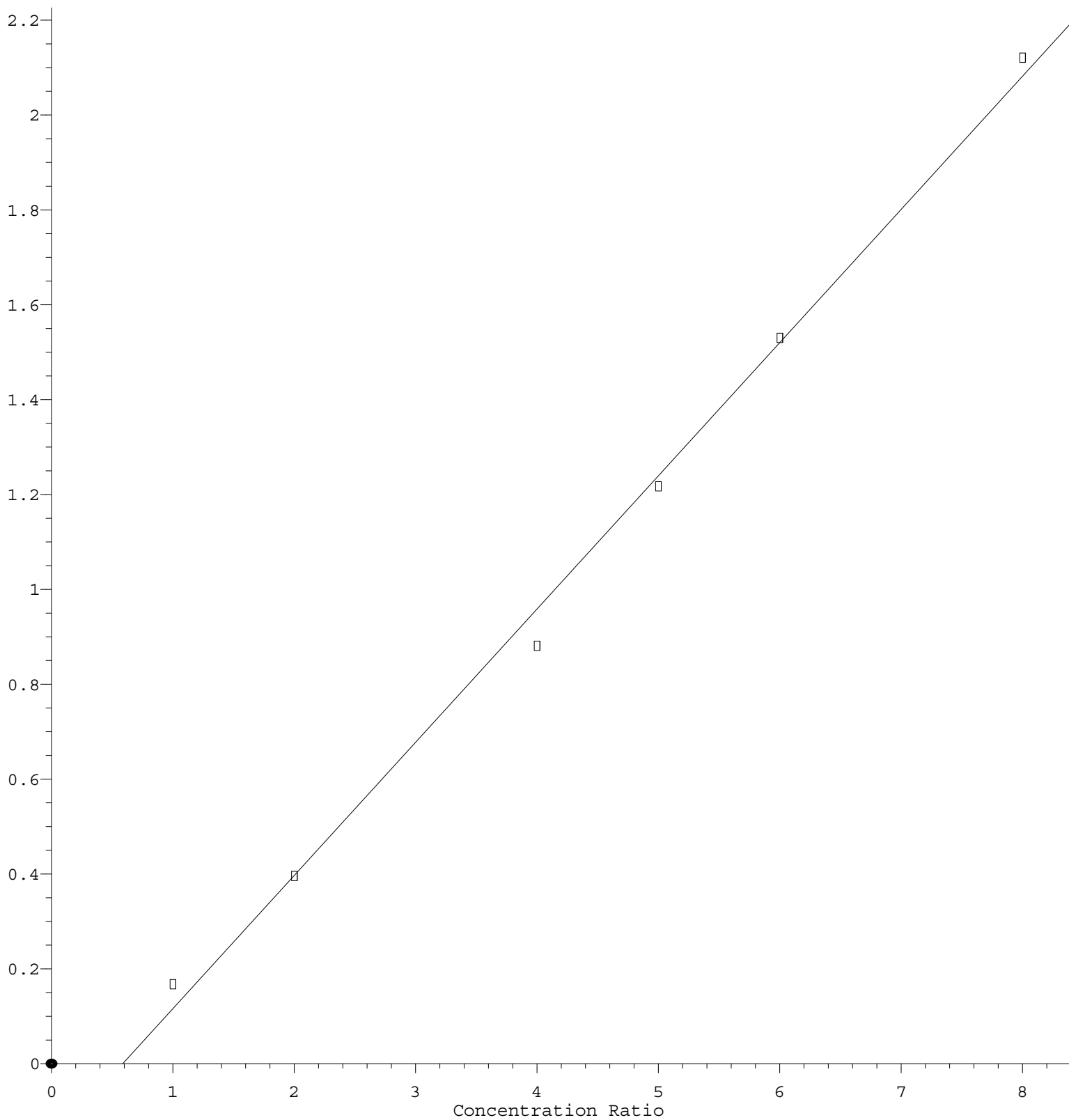
Coef of Det (r^2) = 0.997513 Curve Fit: Linear

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2,4,6-Tribromophenol

Response Ratio



$$\text{Response} = 2.809\text{e-}001 * \text{Amt} - 1.650\text{e-}001$$

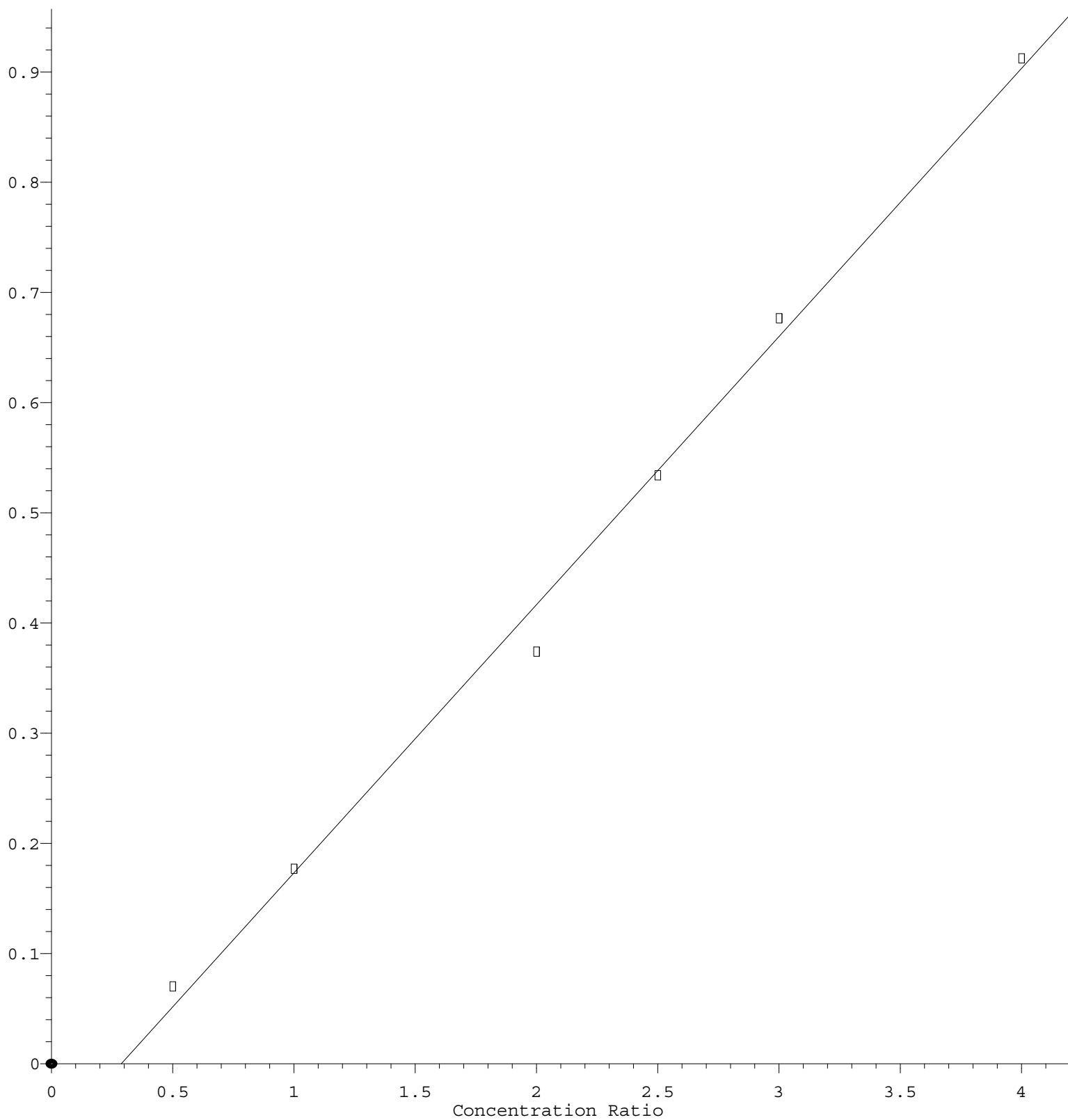
Coef of Det (r^2) = 0.995928 Curve Fit: Linear

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Hexachlorocyclopentadiene

Response Ratio



$$\text{Response} = 2.434 \times 10^{-1} \times \text{Amt} - 7.007 \times 10^{-2}$$

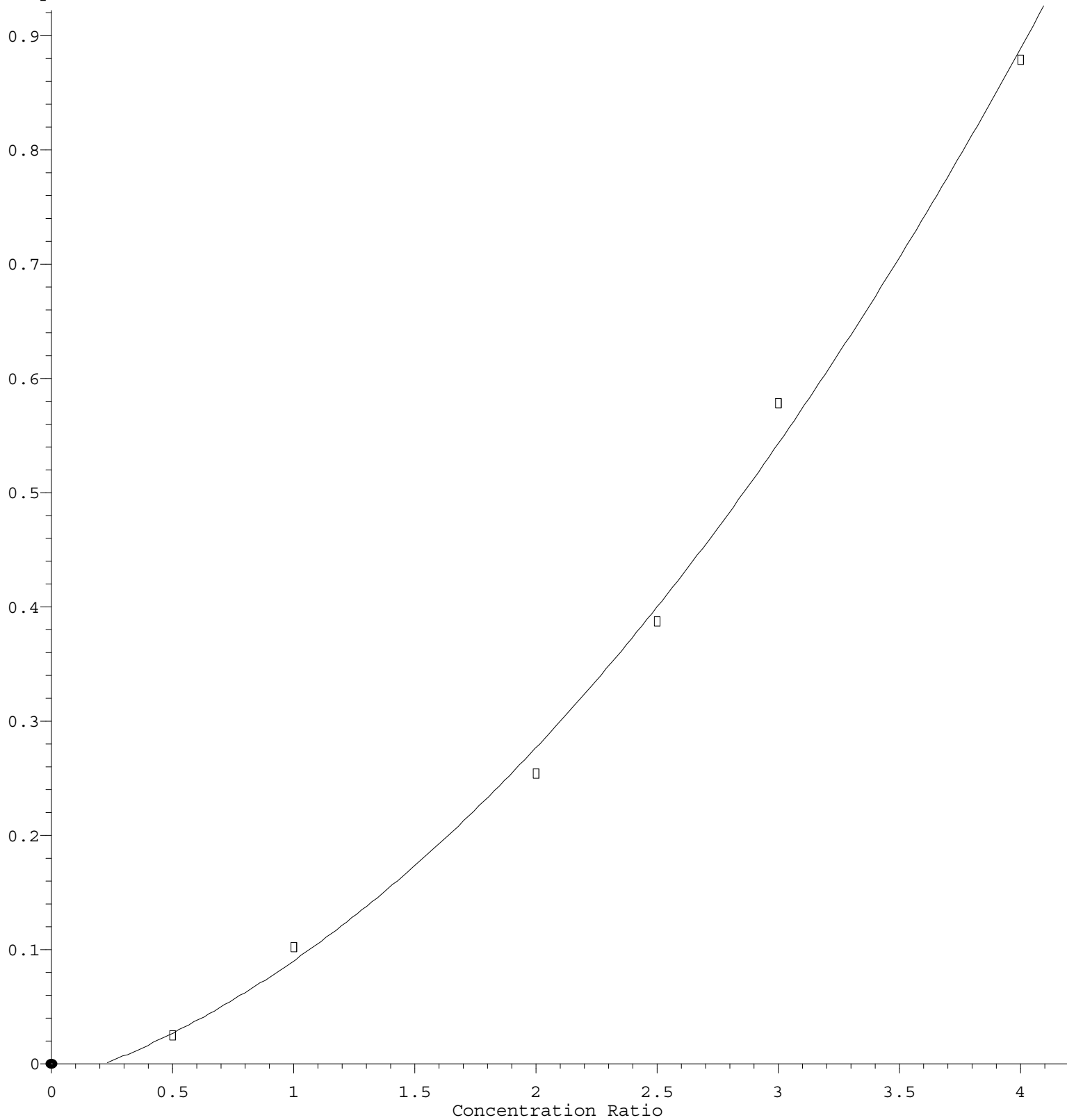
Coef of Det (r^2) = 0.994869 Curve Fit: Linear

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Benzoic acid

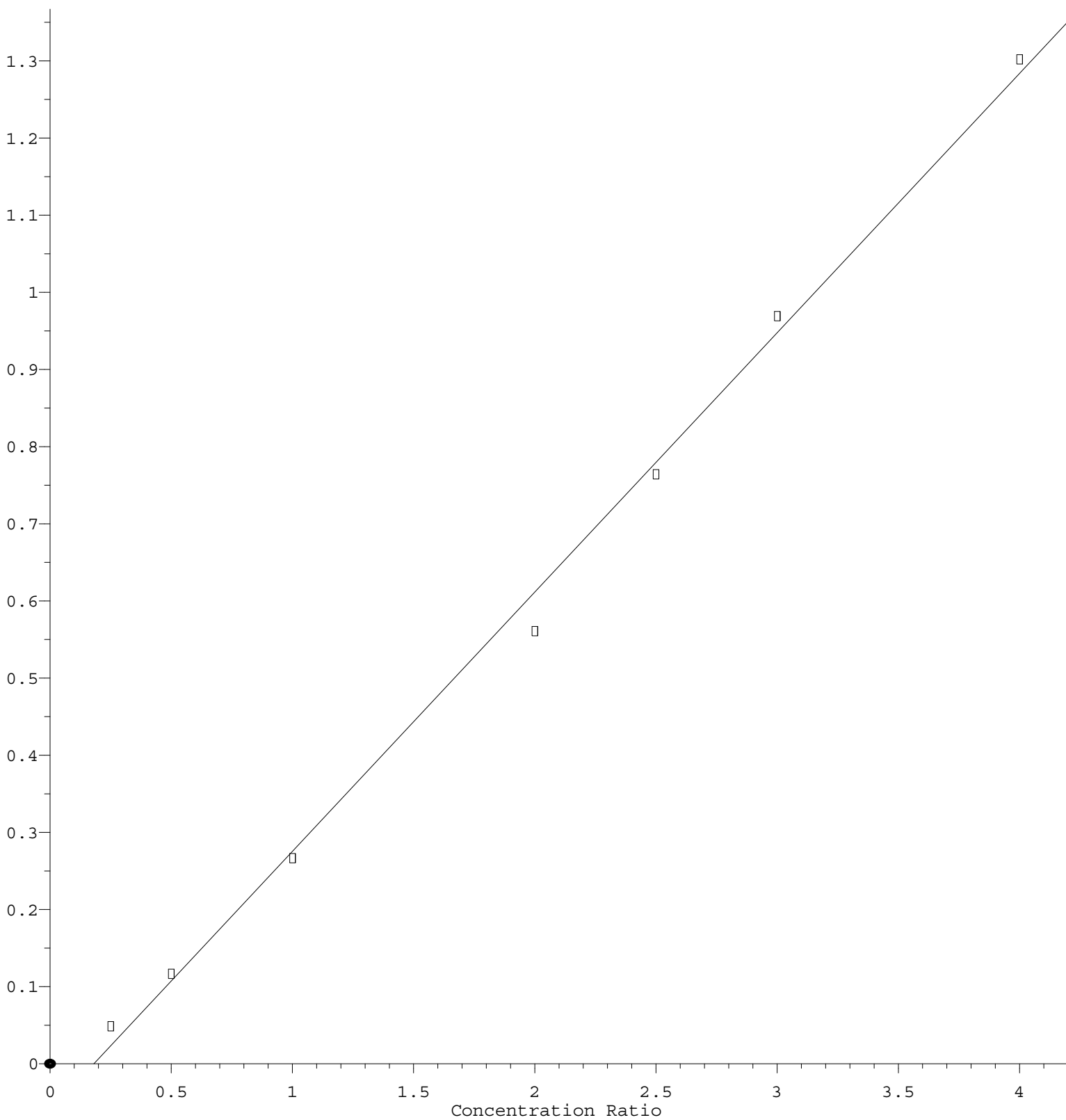
Response Ratio



$R = 3.982e-002 A^2 + 6.708e-002 A - 1.665e-002$
 Coef of Det (r^2) = 0.995724 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030624.M
 Calibration Table Last Updated: Thu Mar 07 02:50:02 2024

2,4-Dichlorophenol

Response Ratio



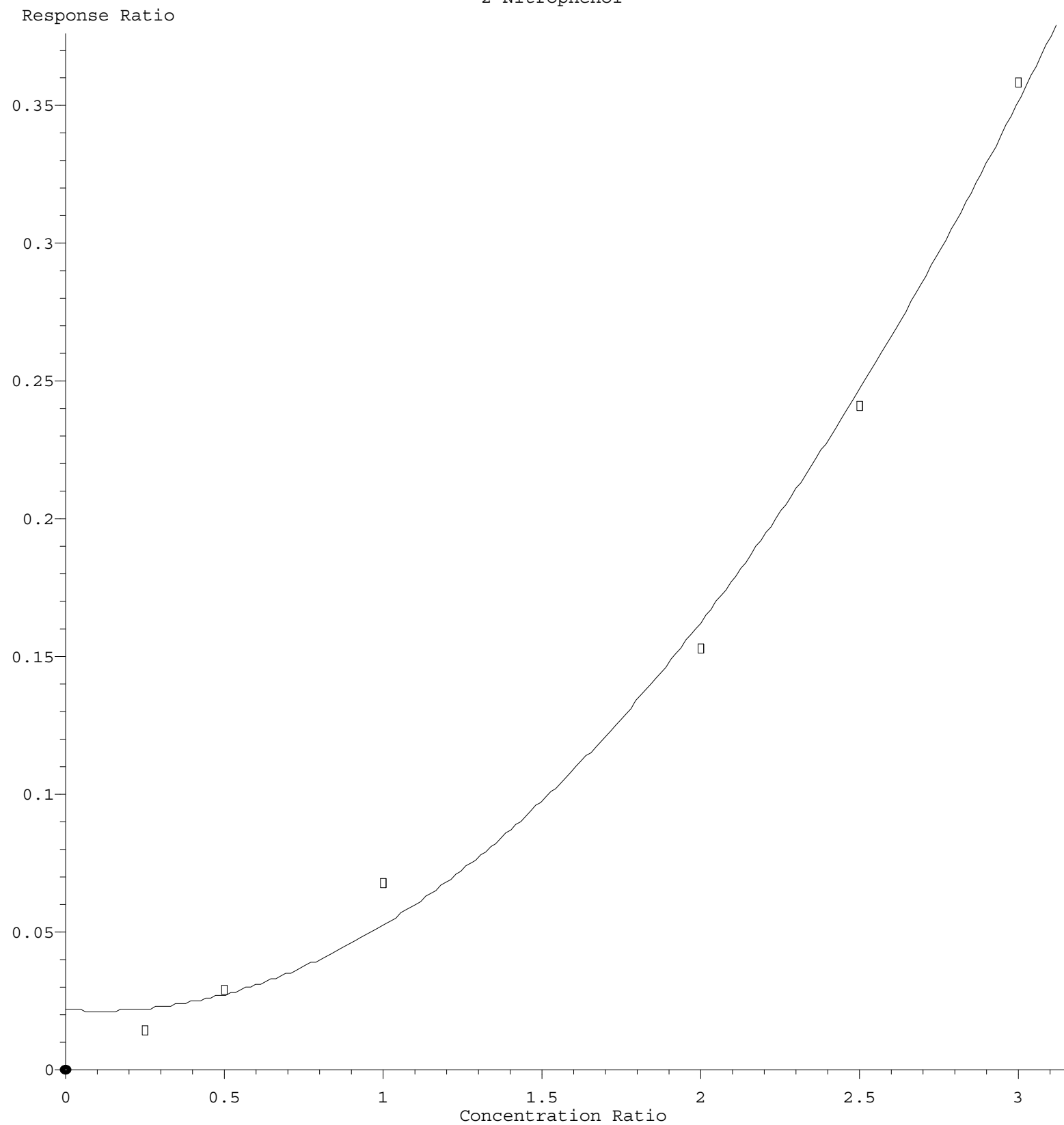
$$\text{Response} = 3.362\text{e-}001 * \text{Amt} - 6.097\text{e-}002$$

Coef of Det (r^2) = 0.996614 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030624.M

Calibration Table Last Updated: Thu Mar 07 02:50:02 2024

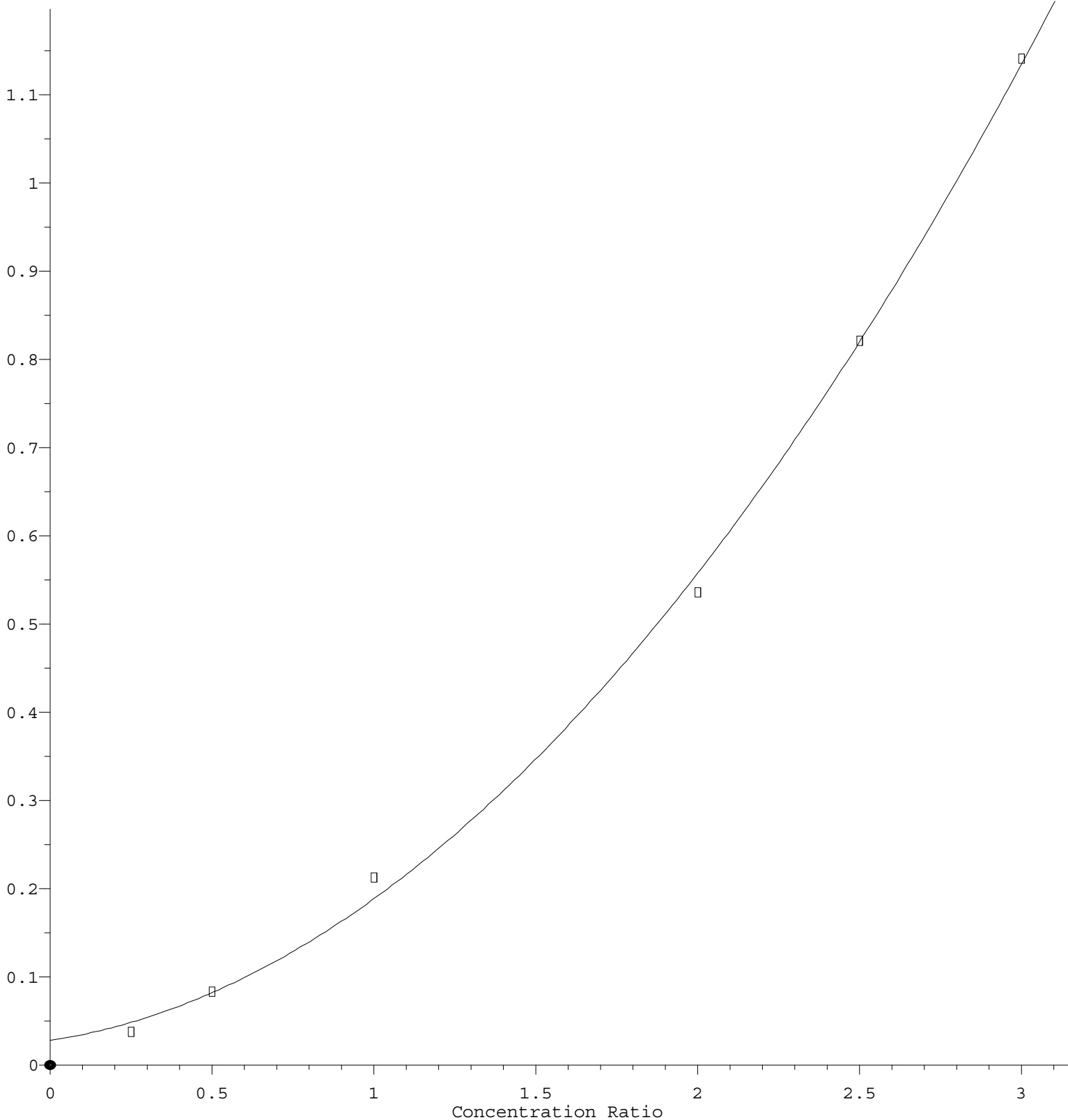
2-Nitrophenol



$R = 3.956e-002 A^2 - 8.842e-003 A + 2.188e-002$
 Coef of Det (r^2) = 0.994848 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030624.M
 Calibration Table Last Updated: Thu Mar 07 02:50:02 2024

Nitrobenzene

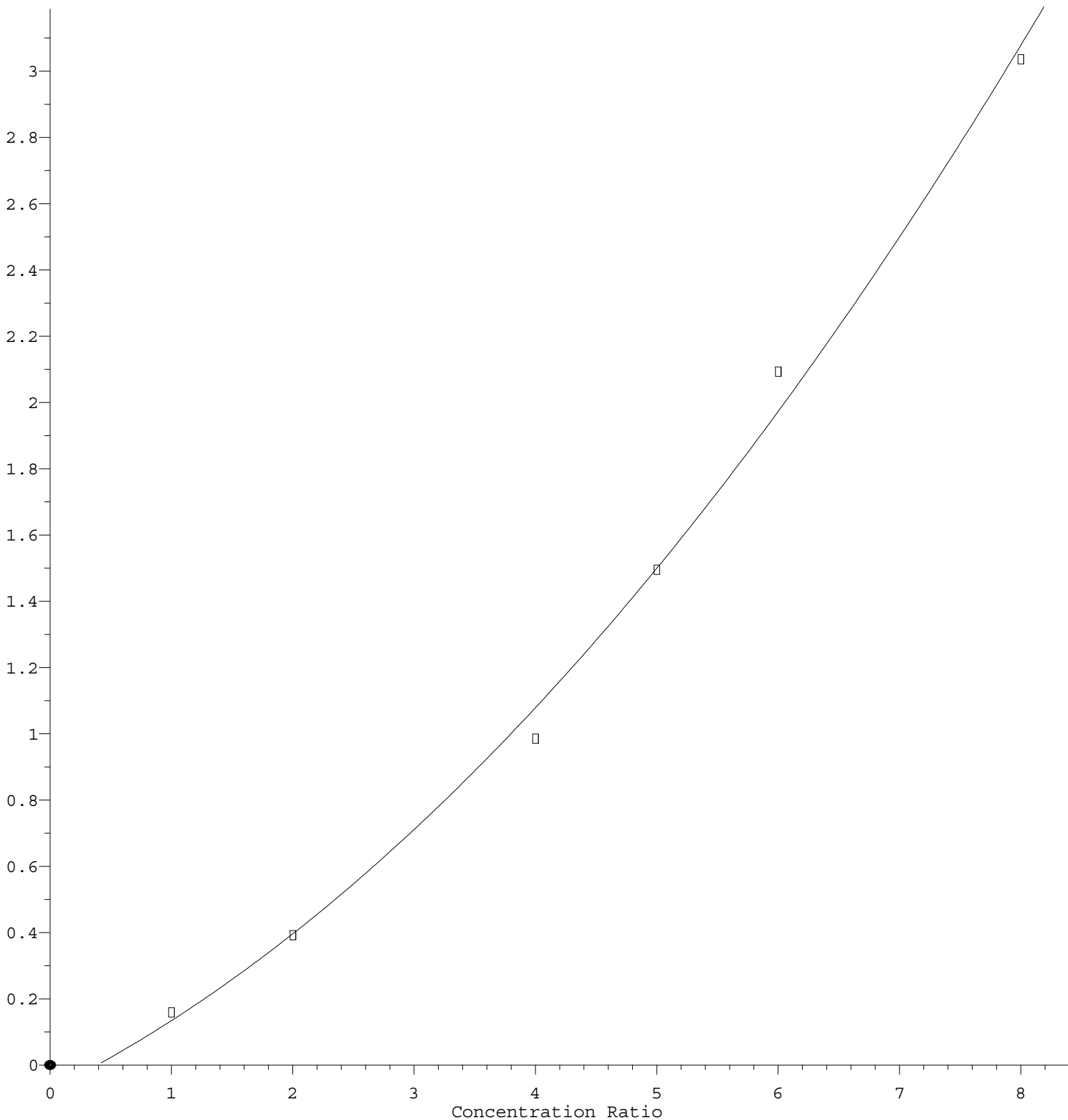
Response Ratio



$R = 1.041e-001 A^2 + 5.678e-002 A + 2.772e-002$
 Coef of Det (r^2) = 0.998770 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030624.M
 Calibration Table Last Updated: Thu Mar 07 02:50:02 2024

Nitrobenzene-d5

Response Ratio



$R = 2.643e-002 A^2 + 1.827e-001 A - 7.489e-002$
 Coef of Det (r^2) = 0.995643 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030624.M
 Calibration Table Last Updated: Thu Mar 07 02:50:02 2024