

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF052323.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed May 24 02:41:39 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BF133451.D 5 =BF133452.D 10 =BF133453.D 20 =BF133454.D 40 =BF133455.D 50 =BF133456.D 60 =BF133457.D 80 =BF133458.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.621	0.578	0.587	0.573	0.514	0.517	0.486	0.554	8.76	
3)	Pyridine	1.438	1.467	1.542	1.511	1.412	1.448	1.389	1.458	3.68	
4)	n-Nitrosodimet...	0.861	0.832	0.871	0.852	0.797	0.818	0.796	0.832	3.64	
5) S	2-Fluorophenol	1.404	1.342	1.351	1.235	1.100	1.105	1.027	1.224	12.08	
6)	Aniline	2.339	2.128	2.131	2.015	1.834	1.869	1.755	2.010	10.22	
7) S	Phenol-d6	1.741	1.599	1.585	1.479	1.323	1.337	1.232	1.471	12.38	
8)	2-Chlorophenol	1.418	1.290	1.313	1.249	1.100	1.119	1.008	1.214	11.78	
9)	Benzaldehyde		1.066	0.932	0.772	0.702	0.680		0.830	19.84	
10) C	Phenol	1.746	1.635	1.625	1.523	1.380	1.359	1.260	1.504	11.72	
11)	bis(2-Chloroet...	1.477	1.296	1.331	1.227	1.113	1.110	1.040	1.228	12.44	
12)	1,3-Dichlorobe...	1.581	1.461	1.422	1.337	1.191	1.190	1.091	1.325	13.22	
13) C	1,4-Dichlorobe...	1.597	1.447	1.447	1.331	1.180	1.187	1.095	1.326	13.65	
14)	1,2-Dichlorobe...	1.496	1.372	1.365	1.223	1.084	1.076	0.958	1.225	15.93	
15)	Benzyl Alcohol	1.212	1.180	1.188	1.148	1.036	1.066	0.962	1.113	8.38	
16)	2,2'-oxybis(1-...	2.734	2.492	2.462	2.329	2.120	2.135	1.988	2.323	11.20	
17)	2-Methylphenol	1.282	1.176	1.183	1.110	1.004	1.034	0.957	1.107	10.42	
18)	Hexachloroethane	0.472	0.459	0.489	0.466	0.430	0.438	0.410	0.452	6.00	
19) P	n-Nitroso-di-n...	1.054	1.044	0.981	0.926	0.901	0.821	0.839	0.798	0.920	10.76
20)	3+4-Methylphenols		1.644	1.490	1.484	1.359	1.184	1.190	1.026	1.339	16.17
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.580	0.524	0.508	0.464	0.417	0.412	0.381	0.469	15.19	
23) S	Nitrobenzene-d5	0.191	0.232	0.295	0.326	0.322	0.333	0.326	0.289	19.19	
24)	Nitrobenzene	0.244	0.283	0.337	0.351	0.342	0.349	0.332	0.320	12.67	
25)	Isophorone	0.763	0.707	0.694	0.682	0.633	0.652	0.634	0.681	6.84	
26) C	2-Nitrophenol	0.044	0.056	0.086	0.117	0.128	0.140	0.144	0.102	39.65#	
27)	2,4-Dimethylph...	0.315	0.308	0.310	0.295	0.272	0.276	0.260	0.291	7.44	
28)	bis(2-Chloroet...	0.470	0.429	0.421	0.405	0.369	0.372	0.350	0.402	10.34	
29) C	2,4-Dichloroph...	0.261	0.263	0.285	0.278	0.258	0.258	0.244	0.264	5.16	
30)	1,2,4-Trichlor...	0.328	0.299	0.309	0.290	0.265	0.267	0.249	0.287	9.67	
31)	Naphthalene	1.172	1.073	1.058	0.986	0.889	0.887	0.811	0.982	12.93	
32)	Benzoic acid		0.059	0.092	0.133	0.148	0.164	0.182	0.130	35.70	
33)	4-Chloroaniline	0.475	0.435	0.434	0.420	0.383	0.382	0.354	0.412	9.98	
34) C	Hexachlorobuta...	0.198	0.180	0.186	0.175	0.163	0.164	0.155	0.174	8.58	
35)	Caprolactam	0.071	0.071	0.081	0.089	0.083	0.087	0.079	0.080	8.78	
36) C	4-Chloro-3-met...	0.291	0.289	0.296	0.298	0.276	0.280	0.269	0.285	3.85	
37)	2-Methylnaphth...	0.787	0.722	0.704	0.661	0.599	0.594	0.543	0.659	12.96	
38)	1-Methylnaphth...	0.731	0.674	0.653	0.618	0.554	0.557	0.509	0.614	12.73	

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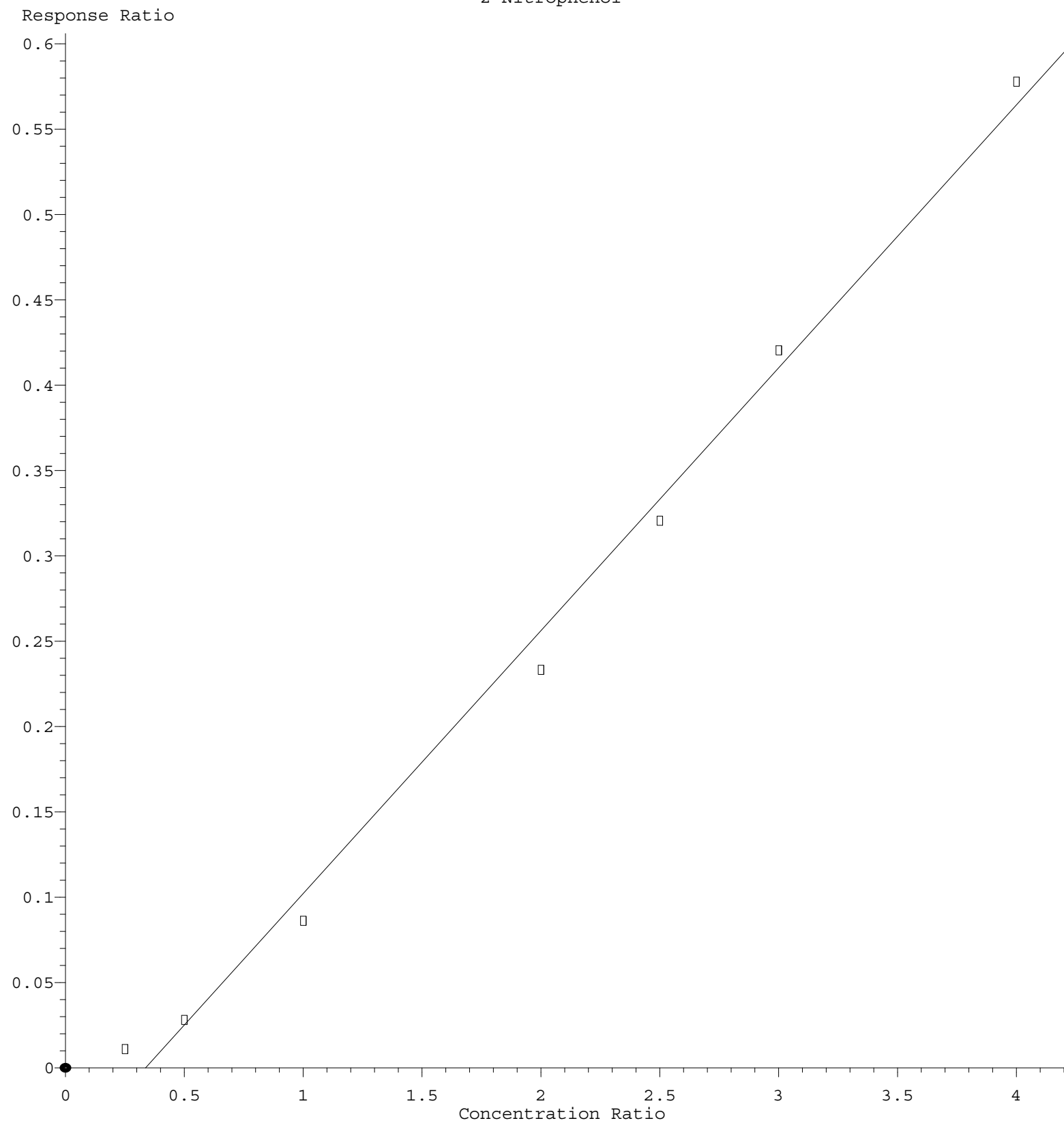
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.712	0.653	0.663	0.604	0.556	0.551	0.515	0.608	11.74	
41) P	Hexachlorocycl...	0.225	0.248	0.296	0.313	0.307	0.319	0.321	0.290	13.08	
42) S	2,4,6-Tribromo...	0.162	0.171	0.197	0.200	0.186	0.195	0.182	0.185	7.60	
43) C	2,4,6-Trichlor...	0.332	0.358	0.403	0.403	0.380	0.378	0.360	0.373	6.89	
44)	2,4,5-Trichlor...	0.395	0.427	0.461	0.464	0.427	0.433	0.414	0.432	5.64	
45) S	2-Fluorobiphenyl	1.855	1.652	1.569	1.386	1.211	1.195	1.084	1.422	19.76	
46)	1,1'-Biphenyl	2.008	1.837	1.826	1.683	1.513	1.489	1.386	1.677	13.42	
47)	2-Chloronaphth...	1.396	1.305	1.304	1.208	1.094	1.094	1.023	1.203	11.45	
48)	2-Nitroaniline	0.126	0.165	0.265	0.330	0.347	0.376	0.373	0.283	35.86	
49)	Acenaphthylene	2.352	2.212	2.204	2.056	1.875	1.874	1.736	2.044	10.96	
50)	Dimethylphthalate	1.545	1.409	1.450	1.393	1.257	1.288	1.215	1.365	8.57	
51)	2,6-Dinitrotol...	0.096	0.144	0.210	0.254	0.256	0.267	0.268	0.213	32.00	
52) C	Acenaphthene	1.441	1.309	1.298	1.237	1.117	1.126	1.065	1.227	10.85	
53)	3-Nitroaniline	0.139	0.196	0.270	0.322	0.324	0.333	0.327	0.273	28.18	
54) P	2,4-Dinitrophenol		0.028	0.046	0.066	0.081	0.093	0.103	0.070	40.93	
55)	Dibenzofuran	2.178	1.973	1.976	1.846	1.666	1.653	1.532	1.832	12.40	
56) P	4-Nitrophenol		0.137	0.199	0.243	0.248	0.258	0.259	0.224	21.35	
57)	2,4-Dinitrotol...	0.106	0.148	0.229	0.298	0.304	0.330	0.327	0.249	36.33	
58)	Fluorene	1.629	1.493	1.428	1.310	1.160	1.167	1.069	1.322	15.41	
59)	2,3,4,6-Tetrac...	0.291	0.301	0.341	0.348	0.324	0.329	0.307	0.320	6.63	
60)	Diethylphthalate	1.527	1.436	1.444	1.437	1.284	1.322	1.241	1.384	7.46	
61)	4-Chlorophenyl...	0.754	0.705	0.692	0.622	0.545	0.550	0.509	0.625	15.04	
62)	4-Nitroaniline	0.151	0.194	0.259	0.306	0.308	0.330	0.321	0.267	26.05	
63)	Azobenzene	1.642	1.513	1.489	1.459	1.318	1.339	1.262	1.432	9.24	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.020	0.037	0.055	0.064	0.075	0.078	0.055	41.14	
66) c	n-Nitrosodiphe...	0.758	0.706	0.713	0.662	0.604	0.607	0.567	0.659	10.55	
67)	4-Bromophenyl-...	0.232	0.224	0.226	0.210	0.195	0.199	0.182	0.210	8.85	
68)	Hexachlorobenzene	0.246	0.230	0.237	0.222	0.203	0.208	0.194	0.220	8.72	
69)	Atrazine	0.172	0.177	0.182	0.179	0.160	0.163	0.148	0.169	7.18	
70) C	Pentachlorophenol	0.086	0.101	0.131	0.140	0.137	0.144	0.136	0.125	17.82	
71)	Phenanthrene	1.199	1.121	1.133	1.041	0.946	0.948	0.861	1.036	11.83	
72)	Anthracene	1.216	1.143	1.137	1.071	0.969	0.972	0.888	1.056	11.12	
73)	Carbazole	1.147	1.043	1.074	1.017	0.927	0.938	0.861	1.001	9.78	
74)	Di-n-butylphth...	1.077	1.070	1.168	1.121	1.033	1.065	0.983	1.074	5.53	
75) C	Fluoranthene	1.246	1.136	1.196	1.132	1.054	1.068	0.973	1.115	8.25	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.551	0.550	0.494	0.470	0.464	0.427	0.381	0.477	13.04	
78)	Pyrene	1.813	1.689	1.697	1.671	1.518	1.547	1.478	1.630	7.33	
79) S	Terphenyl-d14	1.228	1.144	1.120	1.040	0.922	0.955	0.913	1.046	11.68	
80)	Butylbenzylphth...	0.316	0.404	0.548	0.607	0.593	0.633	0.633	0.533	23.37	
81)	Benzo(a)anthra...	1.521	1.452	1.479	1.359	1.264	1.250	1.179	1.358	9.63	
82)	3,3'-Dichlorob...	0.348	0.374	0.433	0.412	0.383	0.378	0.369	0.385	7.35	
83)	Chrysene	1.525	1.420	1.463	1.408	1.294	1.302	1.238	1.379	7.49	
84)	Bis(2-ethylhex...	0.639	0.697	0.805	0.796	0.720	0.759	0.734	0.736	7.86	
85) c	Di-n-octyl pht...		0.972	1.341	1.458	1.393	1.433	1.434	1.339	13.75	

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86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	1.417	1.398	1.388	1.318	1.281	1.347	1.333	1.355		3.62
88)	Benzo(b)fluora...	1.306	1.236	1.335	1.209	1.218	1.228	1.168	1.243		4.65
89)	Benzo(k)fluora...	1.281	1.249	1.240	1.263	1.136	1.170	1.116	1.208		5.45
90) C	Benzo(a)pyrene	1.223	1.186	1.226	1.192	1.128	1.146	1.097	1.171		4.18
91)	Dibenzo(a,h)an...	1.172	1.149	1.143	1.076	1.034	1.087	1.063	1.103		4.67
92)	Benzo(g,h,i)pe...	1.176	1.143	1.126	1.075	1.059	1.106	1.116	1.115		3.57

(#) = Out of Range

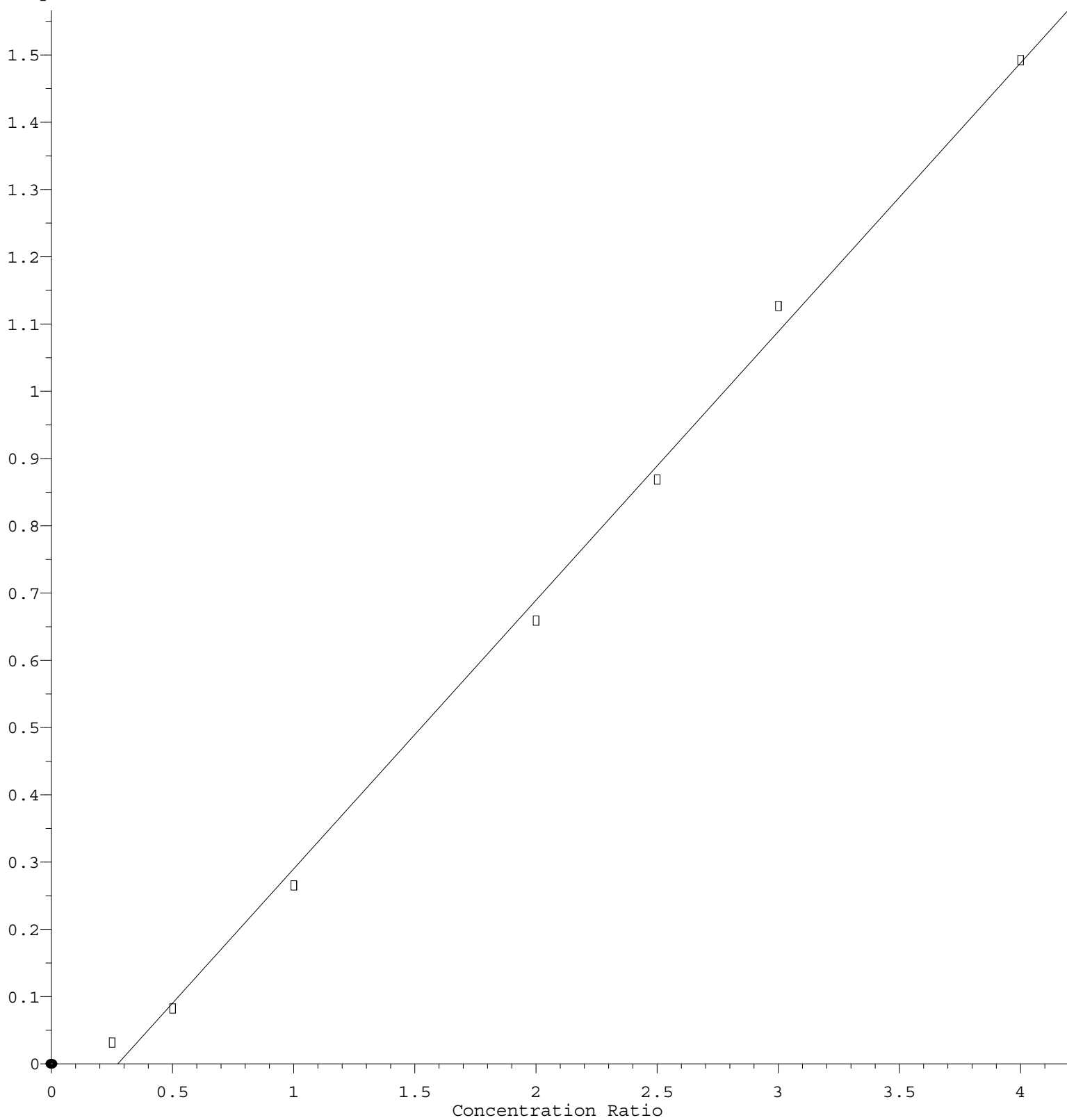
2-Nitrophenol



Response = 1.540e-001 * Amt - 5.192e-002
 Coef of Det (r^2) = 0.993314 Curve Fit: Linear
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2-Nitroaniline

Response Ratio



$$\text{Response} = 3.994\text{e-}001 * \text{Amt} - 1.095\text{e-}001$$

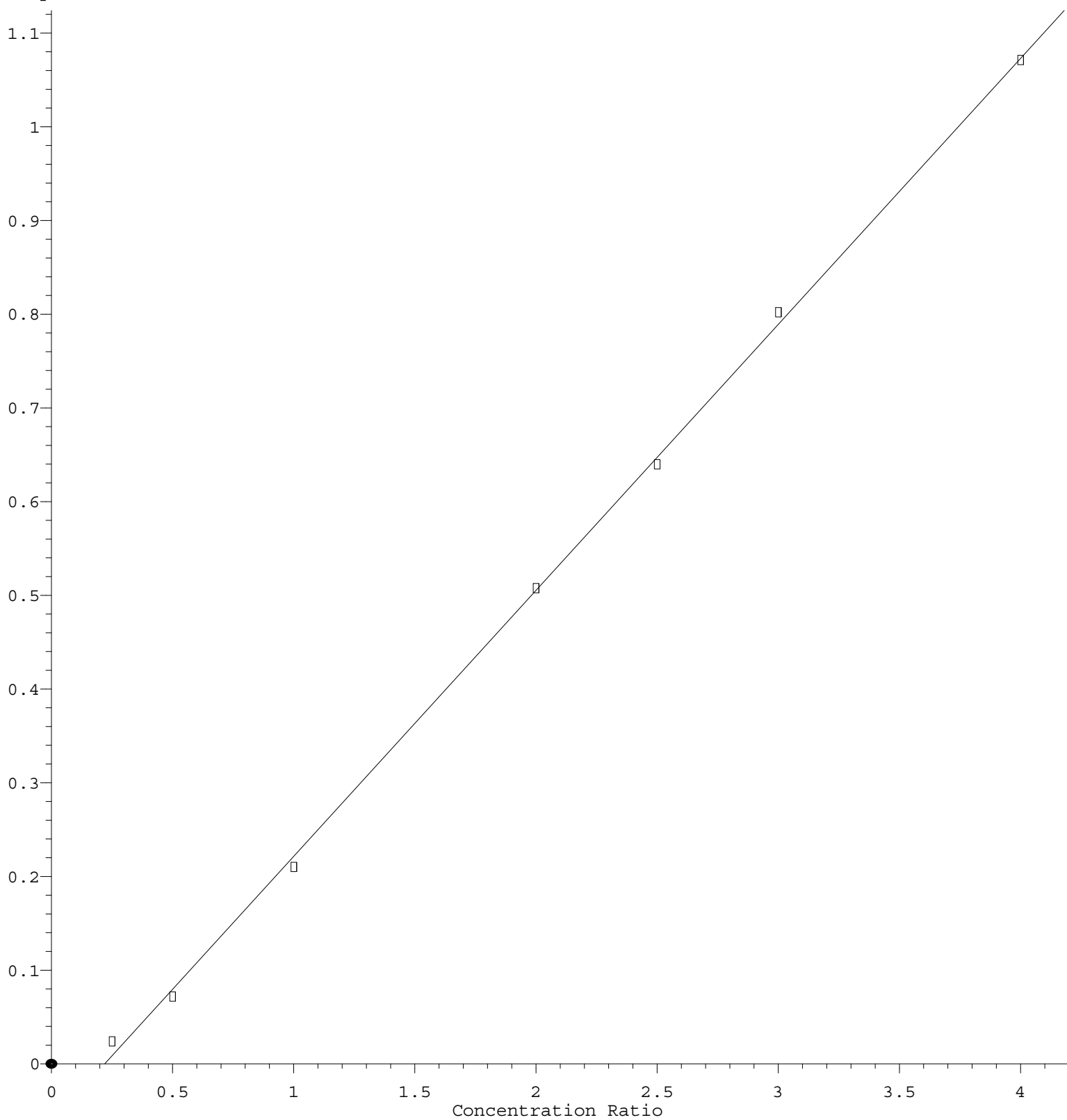
Coef of Det (r^2) = 0.997194 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF052323.M

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 2.840\text{e-}001 * \text{Amt} - 6.238\text{e-}002$$

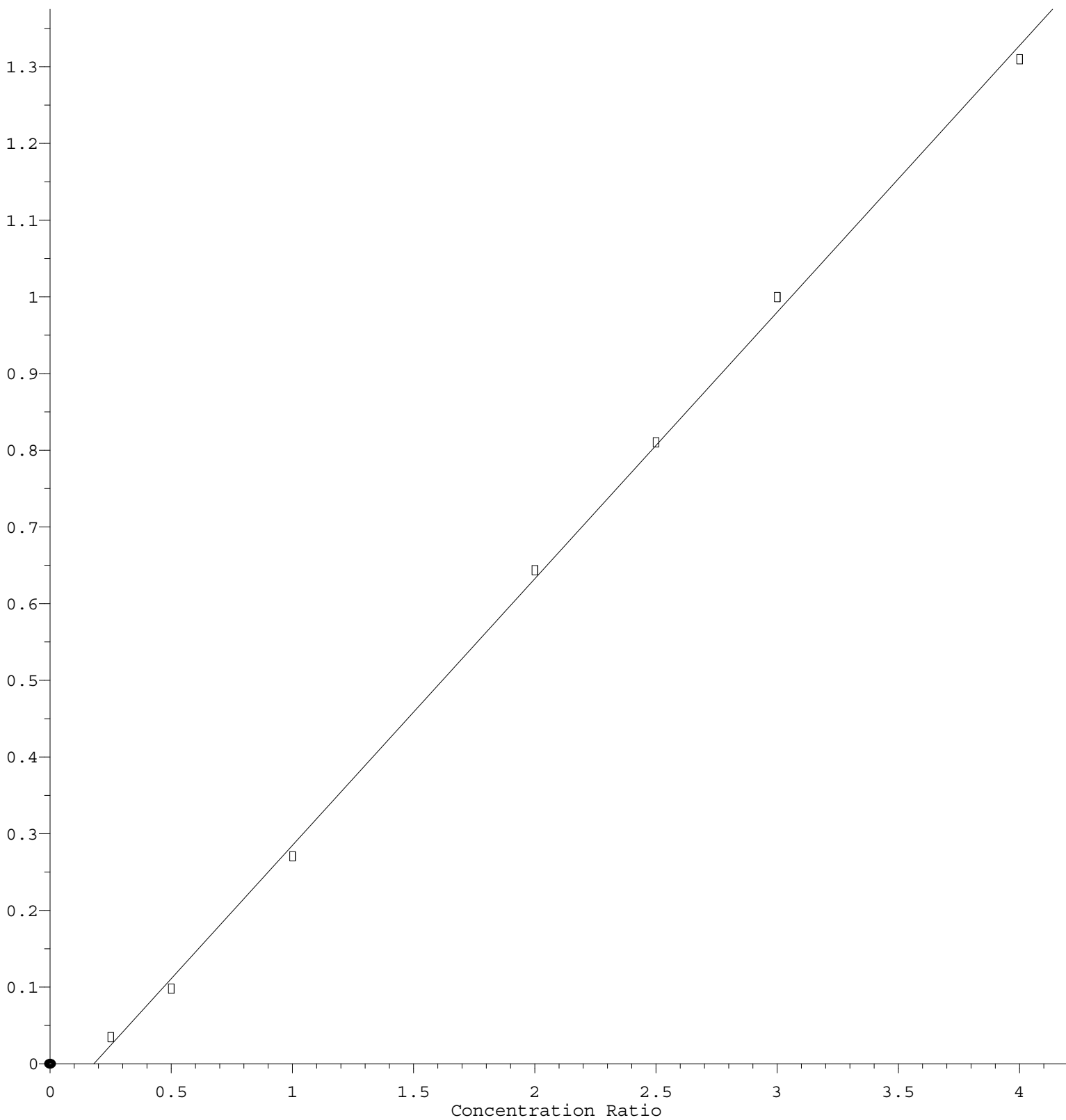
Coef of Det (r^2) = 0.999290 Curve Fit: Linear

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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.477\text{e-}001 * \text{Amt} - 6.299\text{e-}002$$

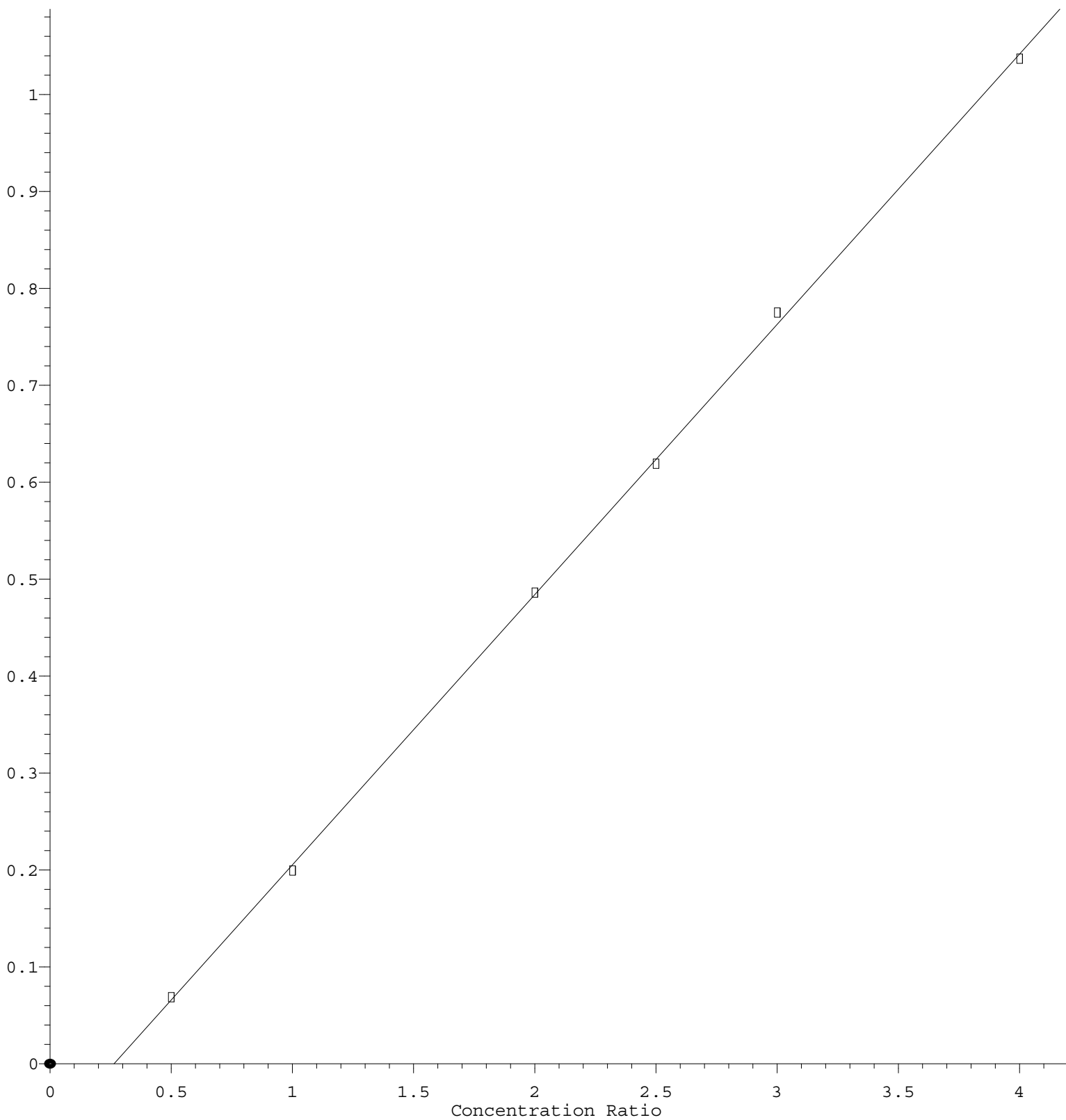
Coef of Det (r^2) = 0.999041 Curve Fit: Linear

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4-Nitrophenol

Response Ratio



$$\text{Response} = 2.790\text{e-}001 * \text{Amt} - 7.366\text{e-}002$$

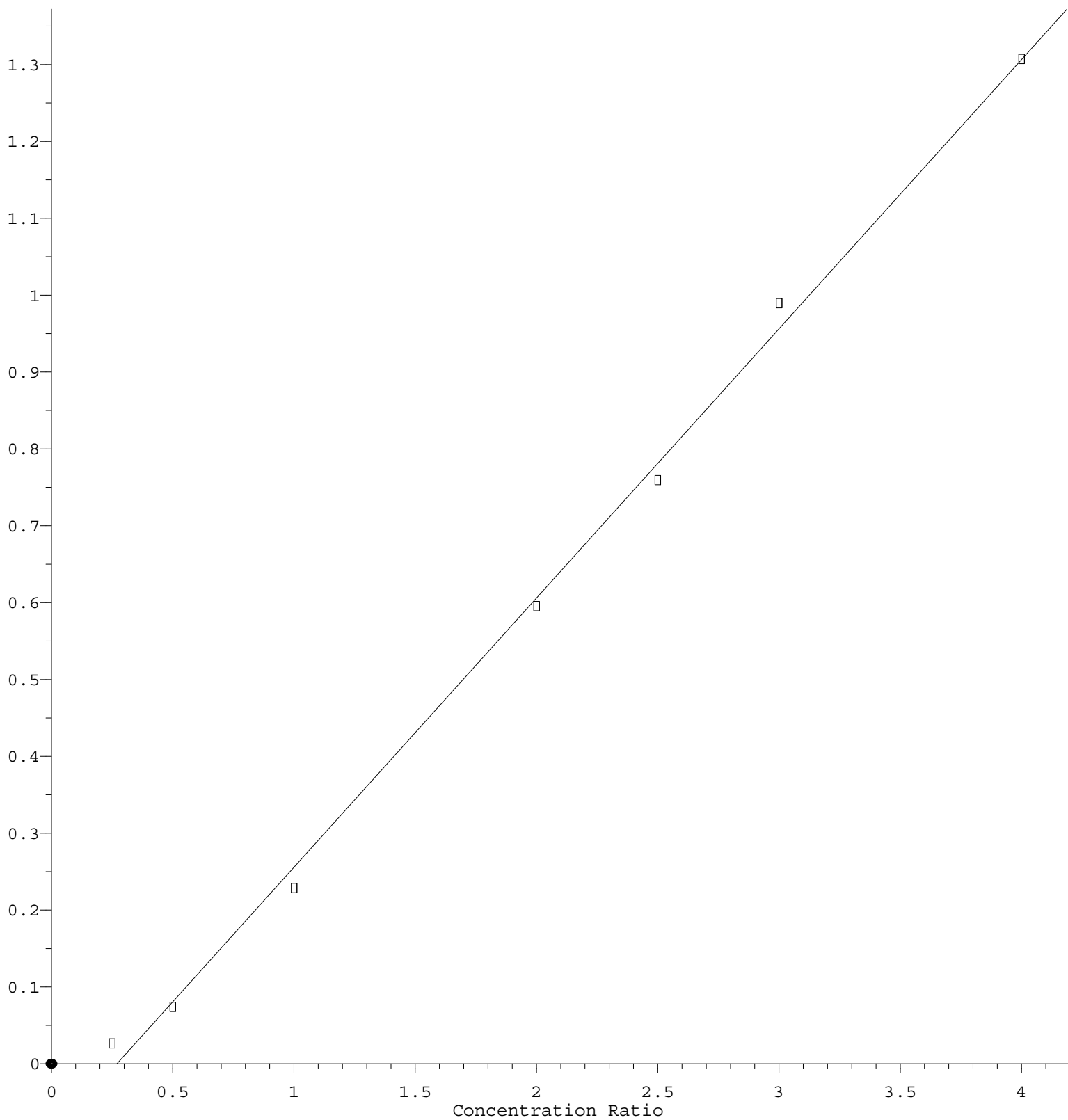
Coef of Det (r^2) = 0.999639 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF052323.M

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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.504\text{e-}001 * \text{Amt} - 9.469\text{e-}002$$

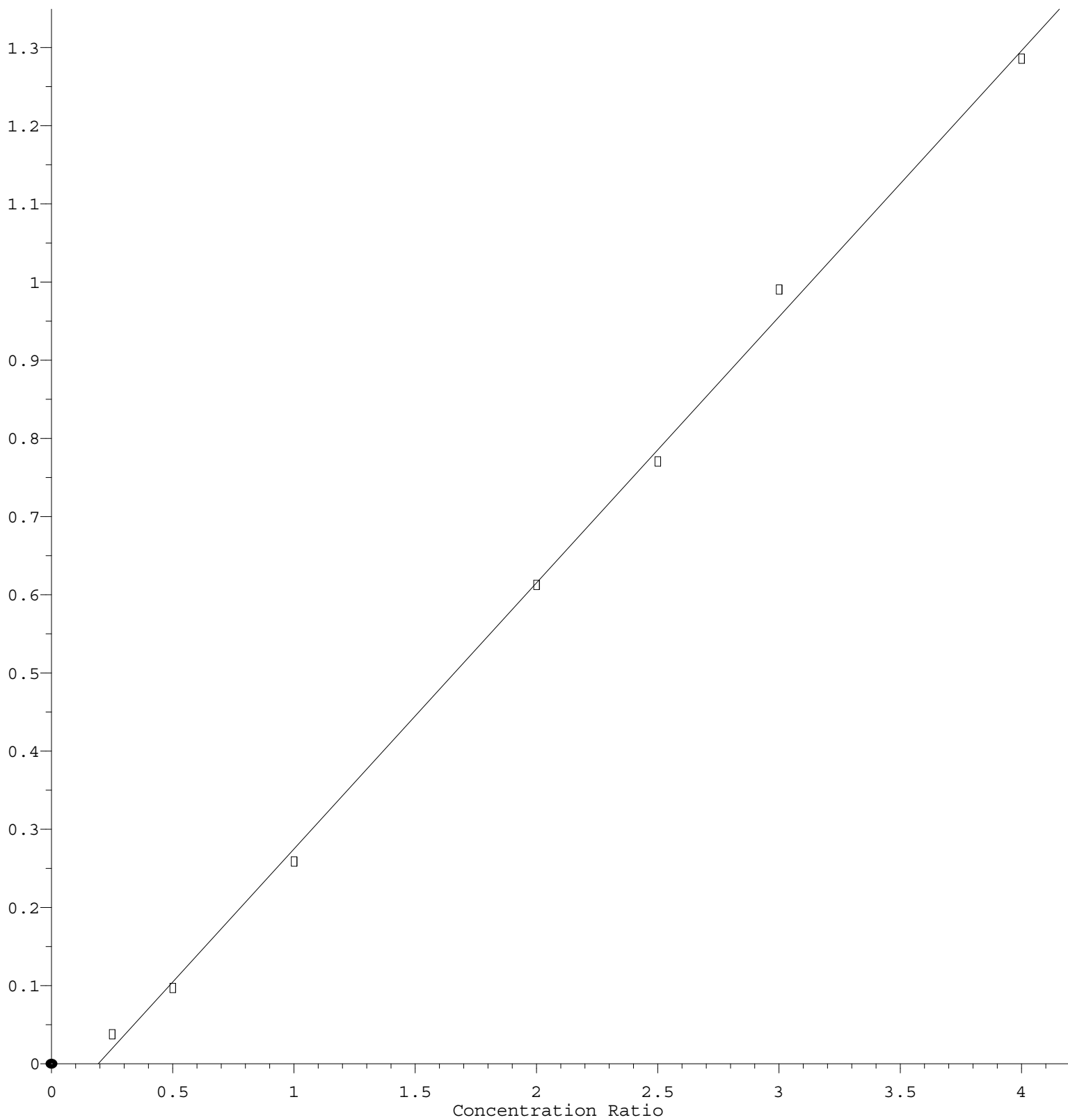
Coef of Det (r^2) = 0.997466 Curve Fit: Linear

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4-Nitroaniline

Response Ratio



$$\text{Response} = 3.406\text{e-}001 * \text{Amt} - 6.581\text{e-}002$$

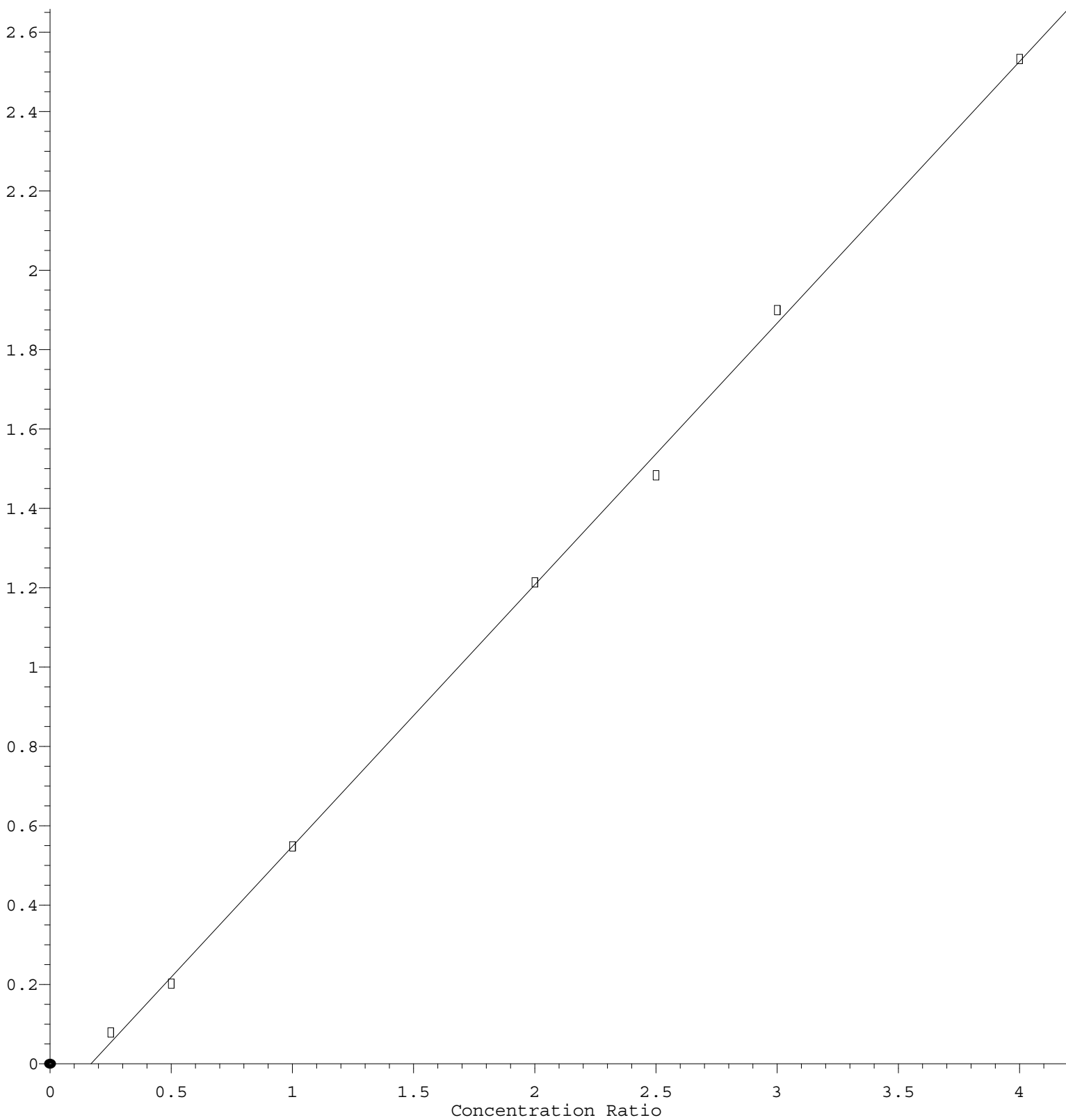
Coef of Det (r^2) = 0.998352 Curve Fit: Linear

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Butylbenzylphthalate

Response Ratio



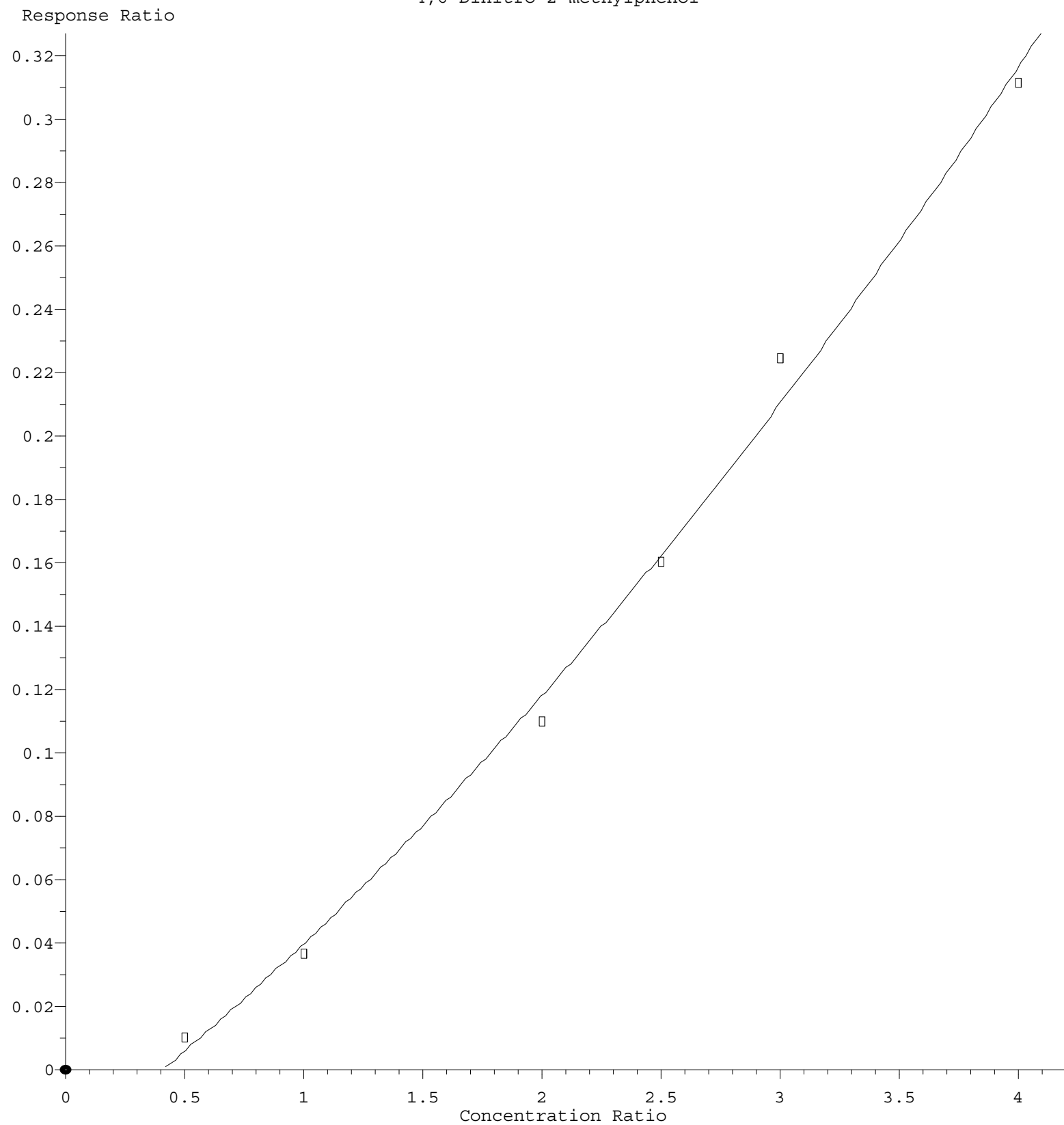
$$\text{Response} = 6.592\text{e-}001 * \text{Amt} - 1.111\text{e-}001$$

Coef of Det (r^2) = 0.999007 Curve Fit: Linear

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4,6-Dinitro-2-methylphenol



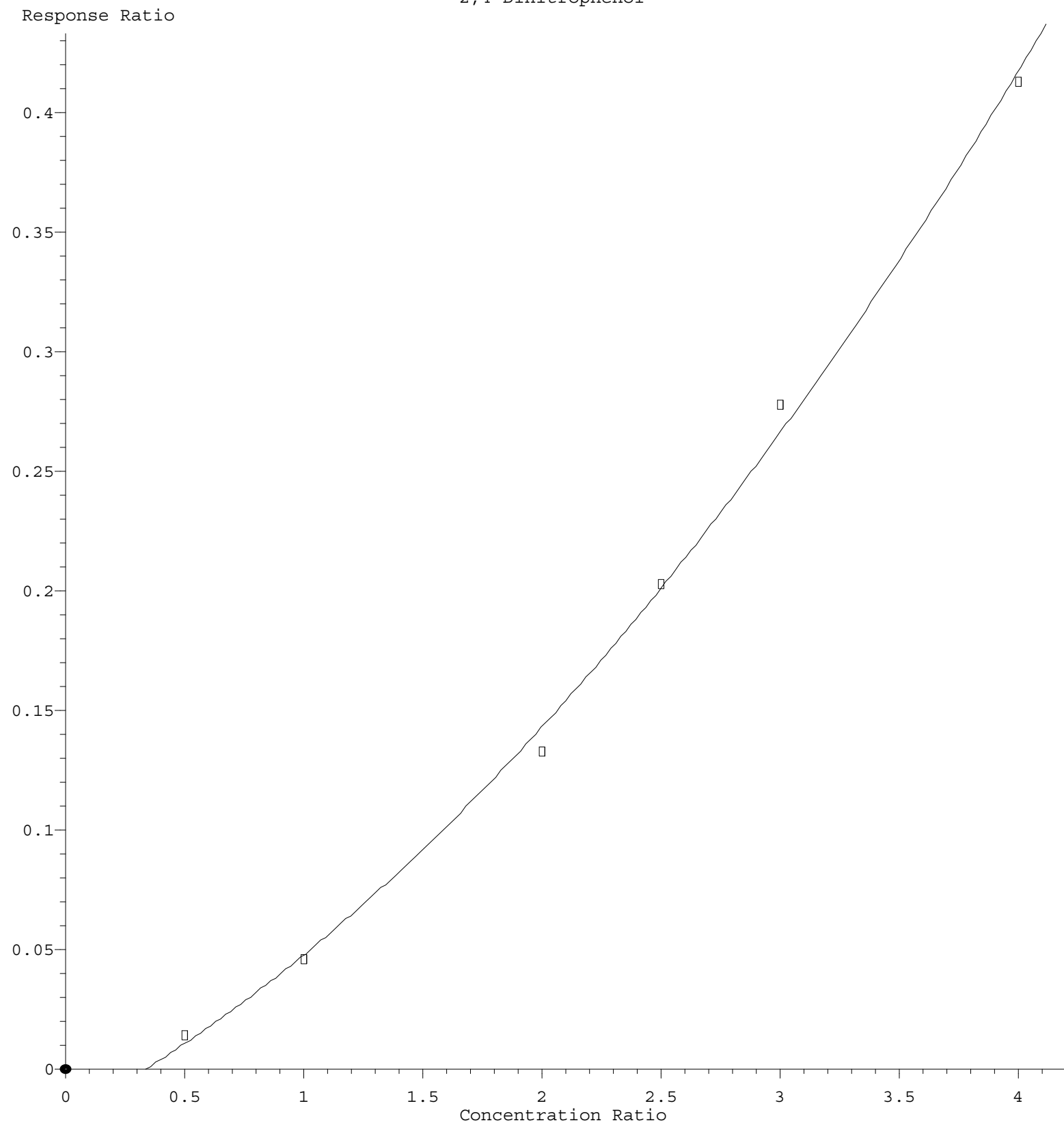
$$R = 6.986e-003 A^2 + 5.730e-002 A - 2.447e-002$$

Coef of Det (r^2) = 0.994994 Curve Fit: Quadratic

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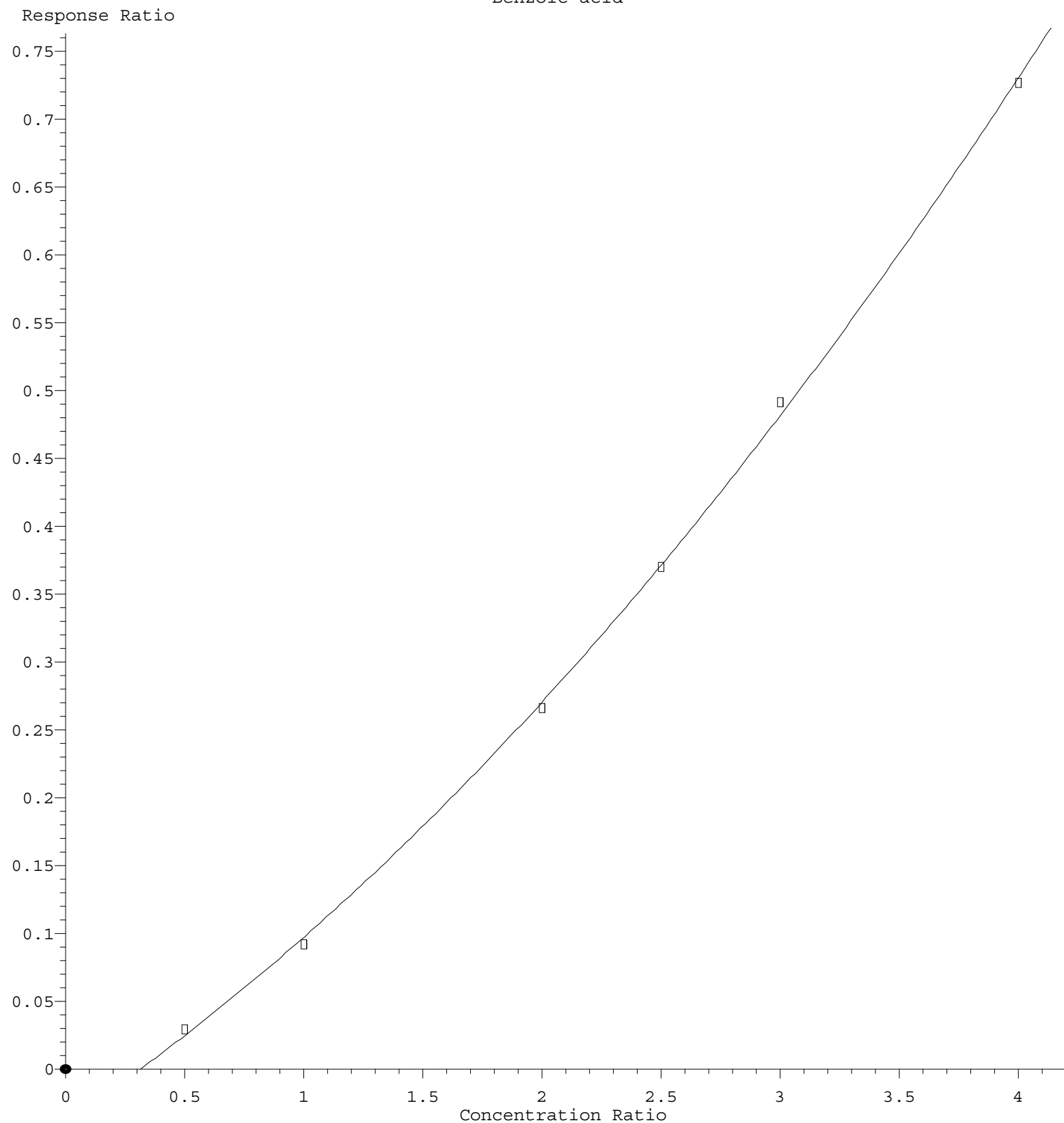
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2,4-Dinitrophenol



$R = 1.395e-002 A^2 + 5.338e-002 A - 1.949e-002$
 Coef of Det (r^2) = 0.997517 Curve Fit: Quadratic
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Benzoic acid



$R = 1.890e-002 A^2 + 1.166e-001 A - 3.837e-002$
 Coef of Det (r^2) = 0.999465 Curve Fit: Quadratic
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