Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM051123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri May 12 02:40:29 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BM039901.D 5 =BM039902.D 10 =BM039903.D 20 =BM039904.D 40 =BM039905.D 50 =BM039906.D 60 =BM039907.D 80 =BM039908.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.593	0.506	0.520	0.470	0.443	0.453	0.437	0.489	11.34
3)		Pyridine		1.181	1.291	1.427	1.392	1.340	1.385	1.316	1.333	6.14
4)		n-Nitrosodimet...		0.571	0.540	0.565	0.513	0.484	0.492	0.465	0.519	7.94
5)	S	2-Fluorophenol		1.273	1.231	1.309	1.247	1.211	1.278	1.243	1.256	2.62
6)		Aniline		2.034	2.007	2.130	2.072	2.031	2.141	1.982	2.057	2.94
7)	S	Phenol-d6		1.583	1.551	1.698	1.644	1.634	1.715	1.632	1.637	3.54
8)		2-Chlorophenol		1.321	1.292	1.400	1.389	1.392	1.459	1.390	1.378	3.98
9)		Benzaldehyde			1.131	1.025	0.802	0.758	0.724		0.888	20.22
10)	C	Phenol		1.649	1.618	1.730	1.657	1.625	1.710	1.614	1.658	2.78
11)		bis(2-Chloroet...		1.460	1.422	1.472	1.363	1.336	1.413	1.318	1.397	4.29
12)		1,3-Dichlorobe...		1.500	1.433	1.496	1.415	1.396	1.463	1.406	1.444	2.96
13)	C	1,4-Dichlorobe...		1.519	1.473	1.523	1.445	1.430	1.495	1.448	1.476	2.51
14)		1,2-Dichlorobe...		1.502	1.444	1.524	1.486	1.442	1.487	1.417	1.472	2.58
15)		Benzyl Alcohol		0.967	0.967	1.101	1.108	1.128	1.179	1.082	1.076	7.45
16)		2,2'-oxybis(1-...		1.727	1.700	1.729	1.613	1.515	1.518	1.365	1.595	8.56
17)		2-Methylphenol		1.214	1.219	1.299	1.286	1.256	1.290	1.169	1.248	3.90
18)		Hexachloroethane		0.525	0.490	0.533	0.525	0.507	0.529	0.511	0.517	2.97
19)	P	n-Nitroso-di-n...	0.883	0.963	0.993	1.149	1.180	1.146	1.154	1.008	1.059	10.49
20)		3+4-Methylphenols		1.520	1.537	1.693	1.697	1.689	1.737	1.565	1.634	5.49
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.516	0.504	0.550	0.545	0.530	0.552	0.539	0.534	3.40
23)	S	Nitrobenzene-d5		0.265	0.282	0.341	0.362	0.362	0.383	0.383	0.340	14.02
24)		Nitrobenzene		0.288	0.304	0.349	0.356	0.353	0.370	0.367	0.341	9.35
25)		Isophorone		0.710	0.698	0.747	0.740	0.714	0.732	0.684	0.718	3.21
26)	C	2-Nitrophenol		0.053	0.054	0.075	0.101	0.115	0.137		0.089	38.25#
27)		2,4-Dimethylph...		0.266	0.263	0.292	0.304	0.303	0.325	0.321	0.296	8.21
28)		bis(2-Chloroet...		0.400	0.395	0.429	0.431	0.427	0.445	0.430	0.422	4.28
29)	C	2,4-Dichloroph...		0.234	0.238	0.273	0.289	0.293	0.314	0.314	0.279	11.78
30)		1,2,4-Trichlor...		0.296	0.285	0.307	0.309	0.312	0.337	0.346	0.313	6.93
31)		Naphthalene		1.074	1.044	1.117	1.106	1.079	1.137	1.120	1.097	2.95
32)		Benzoic acid		0.022	0.035	0.059	0.099	0.127	0.150	0.153	0.092	58.75
33)		4-Chloroaniline		0.443	0.432	0.476	0.491	0.484	0.501	0.472	0.471	5.35
34)	C	Hexachlorobuta...		0.170	0.159	0.173	0.178	0.176	0.193	0.202	0.179	7.96
35)		Caprolactam			0.048	0.068	0.077	0.084	0.086	0.076	0.073	19.04
36)	C	4-Chloro-3-met...		0.274	0.273	0.308	0.311	0.312	0.321	0.294	0.299	6.39
37)		2-Methylnaphth...		0.752	0.727	0.782	0.795	0.792	0.836	0.802	0.784	4.51
38)		1-Methylnaphth...		0.701	0.686	0.738	0.748	0.749	0.786	0.749	0.737	4.54

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.512	0.503	0.562	0.619	0.631	0.701	0.760	0.612	15.57
41)	P	Hexachlorocycl...		0.135	0.177	0.233	0.255	0.307	0.362	0.245	33.90
42)	S	2,4,6-Tribromo...		0.201	0.267	0.311	0.341	0.365	0.346	0.305	20.12
43)	C	2,4,6-Trichlor...	0.275	0.285	0.336	0.371	0.382	0.423	0.438	0.359	17.64
44)		2,4,5-Trichlor...	0.323	0.336	0.394	0.436	0.445	0.490	0.501	0.418	16.77
45)	S	2-Fluorobiphenyl	1.448	1.462	1.649	1.807	1.761	1.781	1.707	1.659	8.97
46)		1,1'-Biphenyl	1.512	1.481	1.654	1.728	1.699	1.819	1.875	1.681	8.70
47)		2-Chloronaphth...	1.105	1.118	1.238	1.284	1.251	1.342	1.386	1.246	8.46
48)		2-Nitroaniline	0.079	0.091	0.150	0.218	0.251	0.280	0.285	0.193	44.91
49)		Acenaphthylene	1.844	1.840	2.027	2.085	2.060	2.160	2.158	2.025	6.62
50)		Dimethylphthalate	1.292	1.314	1.501	1.534	1.572	1.629	1.562	1.486	8.83
51)		2,6-Dinitrotol...	0.128	0.164	0.235	0.272	0.291	0.311	0.302	0.243	29.47
52)	C	Acenaphthene	1.161	1.141	1.273	1.323	1.324	1.401	1.398	1.289	8.10
53)		3-Nitroaniline	0.128	0.170	0.264	0.309	0.335	0.352	0.340	0.271	32.84
54)	P	2,4-Dinitrophenol		0.034	0.051	0.070	0.086	0.098	0.100	0.073	36.22
55)		Dibenzofuran	1.811	1.762	1.922	1.975	1.952	2.046	1.996	1.924	5.31
56)	P	4-Nitrophenol		0.165	0.227	0.249	0.270	0.276	0.260	0.241	17.05
57)		2,4-Dinitrotol...	0.128	0.173	0.278	0.334	0.370	0.397	0.376	0.294	36.10
58)		Fluorene	1.480	1.478	1.736	1.826	1.861	1.898	1.807	1.727	10.20
59)		2,3,4,6-Tetrac...	0.261	0.266	0.323	0.351	0.369	0.392	0.378	0.334	15.87
60)		Diethylphthalate	1.090	1.246	1.540	1.579	1.633	1.659	1.538	1.469	14.65
61)		4-Chlorophenyl...	0.704	0.706	0.839	0.901	0.927	0.961	0.928	0.852	12.59
62)		4-Nitroaniline	0.152	0.206	0.321	0.353	0.374	0.378	0.349	0.305	29.23
63)		Azobenzene	1.592	1.572	1.682	1.579	1.533	1.532	1.425	1.559	4.97
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.023	0.037	0.056	0.067	0.081	0.086	0.058	42.11
66)	c	n-Nitrosodiphe...	0.564	0.575	0.674	0.745	0.725	0.802	0.811	0.699	14.32
67)		4-Bromophenyl-...	0.185	0.184	0.217	0.247	0.245	0.281	0.285	0.235	17.59
68)		Hexachlorobenzene	0.219	0.218	0.251	0.282	0.286	0.317	0.322	0.271	15.83
69)		Atrazine	0.069	0.094	0.144	0.171	0.179	0.191	0.185	0.148	32.54
70)	C	Pentachlorophenol		0.107	0.143	0.167	0.178	0.199	0.198	0.166	21.35
71)		Phenanthrene	1.066	1.042	1.182	1.240	1.239	1.339	1.312	1.203	9.49
72)		Anthracene	1.042	1.049	1.216	1.279	1.289	1.376	1.361	1.230	11.13
73)		Carbazole	0.941	0.945	1.072	1.088	1.118	1.160	1.153	1.068	8.52
74)		Di-n-butylphth...	0.322	0.493	0.913	1.153	1.316	1.405	1.384	0.998	44.05
75)	C	Fluoranthene	1.044	1.055	1.184	1.188	1.299	1.329	1.342	1.206	10.27
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.116	0.162	0.195	0.211	0.229	0.220	0.189	22.58
78)		Pyrene	1.261	1.235	1.485	1.671	1.665	1.805	1.671	1.542	14.34
79)	S	Terphenyl-d14	1.117	1.163	1.537	1.710	1.308	1.323	1.152	1.330	16.60
80)		Butylbenzylpht...	0.070	0.066	0.084	0.141	0.251	0.360	0.425	0.200	73.83
81)		Benzo(a)anthra...	1.263	1.249	1.401	1.436	1.471	1.560	1.544	1.418	8.73
82)		3,3'-Dichlorob...		0.150	0.231	0.282	0.334	0.379	0.407	0.297	32.42
83)		Chrysene	1.182	1.187	1.337	1.370	1.355	1.455	1.453	1.334	8.40
84)		Bis(2-ethylhex...	0.113	0.124	0.204	0.403	0.610	0.776	0.877	0.444	70.98
85)	c	Di-n-octyl pht...		0.210	0.290	0.543	0.769	1.045	1.253	0.685	60.57#

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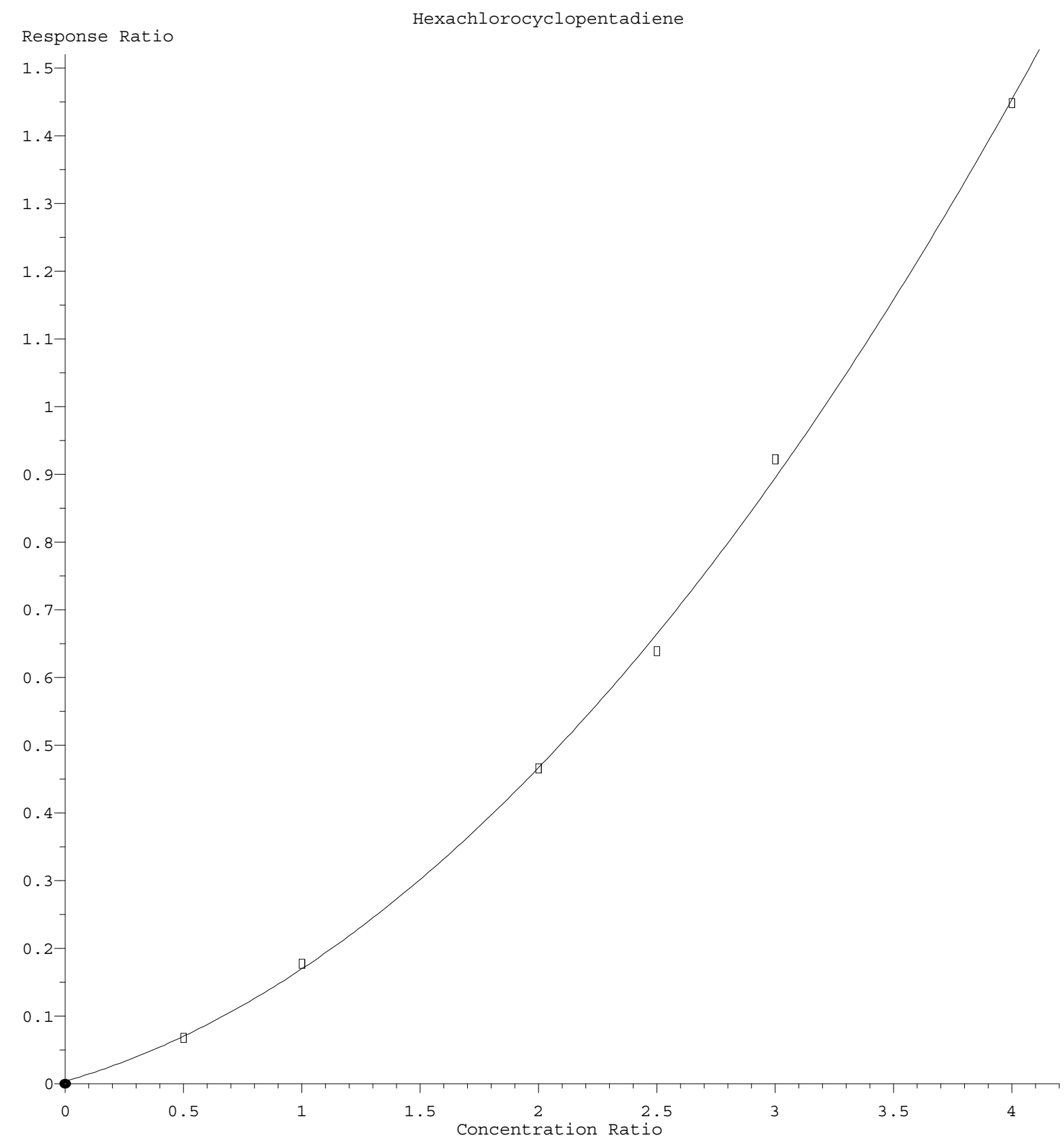
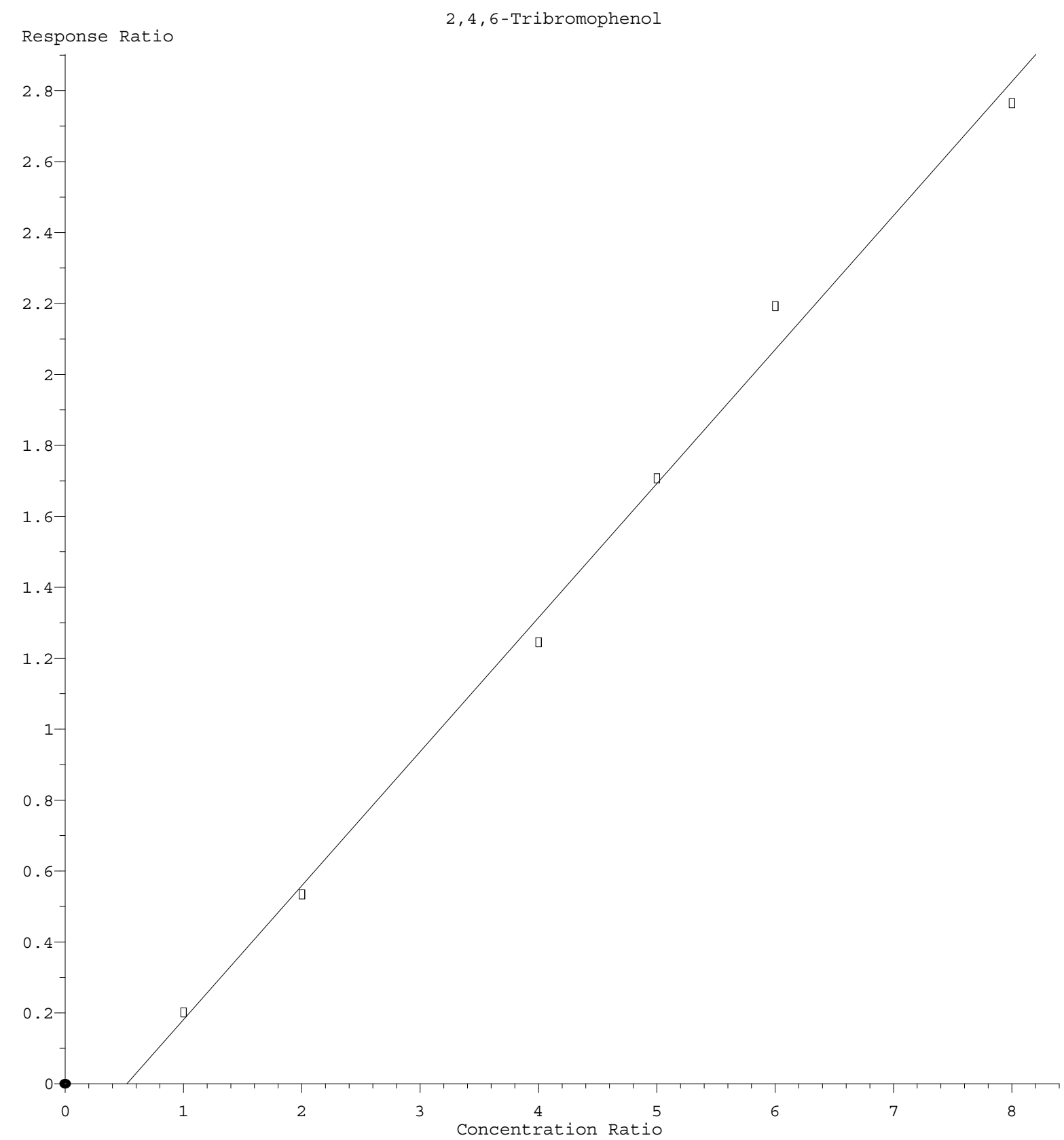
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.087	1.213	1.265	1.491	1.489	1.700	1.881	1.447	19.42
88)		Benzo(b)fluora...	1.042	1.043	1.302	1.334	1.418	1.495	1.496	1.304	14.82
89)		Benzo(k)fluora...	1.134	1.114	1.413	1.455	1.560	1.622	1.598	1.414	14.98
90)	C	Benzo(a)pyrene	0.945	0.974	1.173	1.243	1.312	1.407	1.430	1.212	16.01
91)		Dibenzo(a,h)an...	0.925	1.032	1.088	1.301	1.300	1.497		1.191	17.79
92)		Benzo(g,h,i)pe...	0.850	0.943	0.948	1.101	1.094	1.282	1.397	1.088	18.02

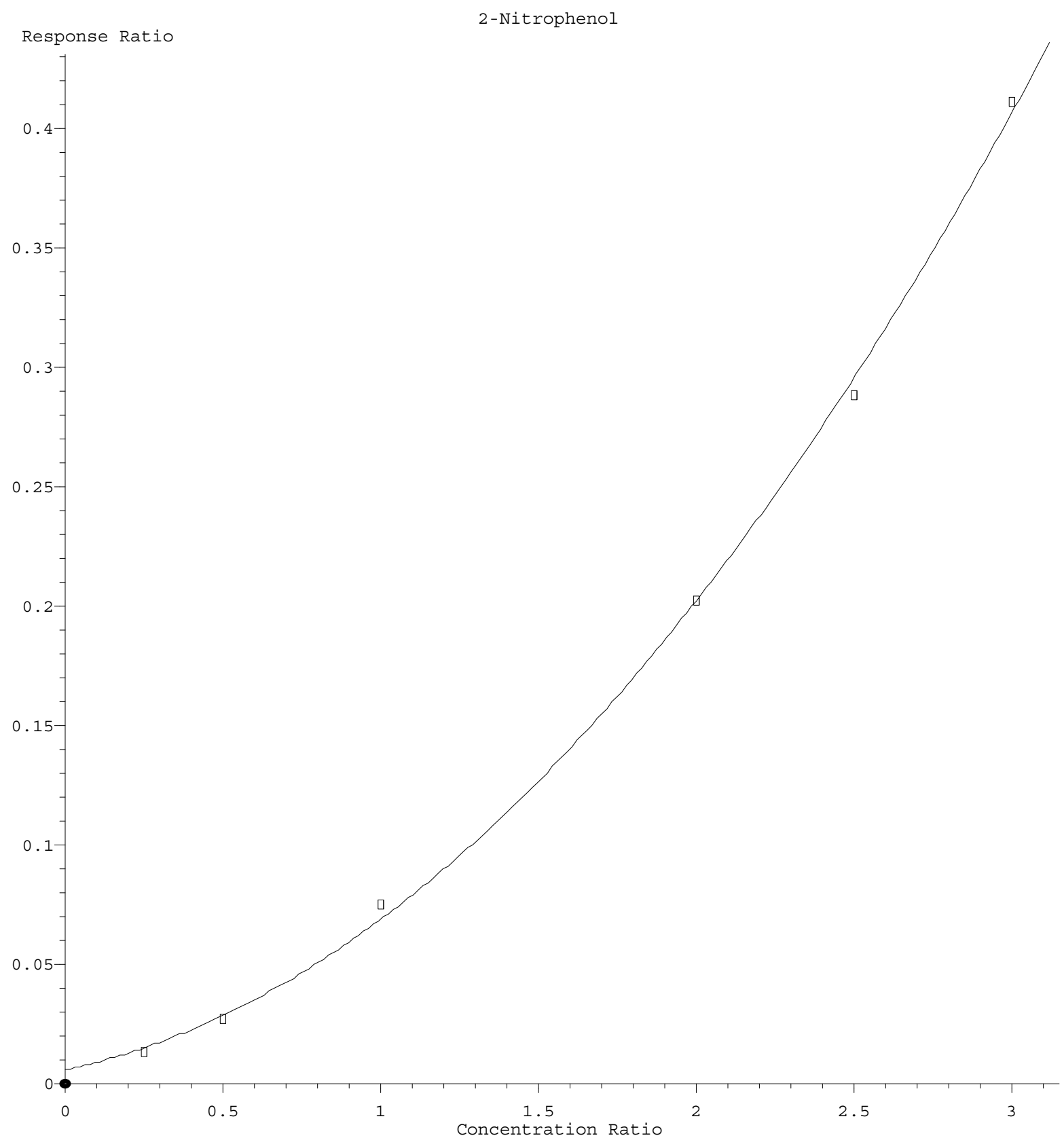
(#) = Out of Range



R = 6.549e-002 A*A + 1.005e-001 A + 3.640e-003
Coef of Det (r^2) = 0.998846 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023



Response = 3.779e-001 * Amt - 1.971e-001
Coef of Det (r^2) = 0.994824 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023



R = 3.536e-002 A*A + 2.745e-002 A + 6.032e-003
Coef of Det (r^2) = 0.999071 Curve Fit: Quadratic
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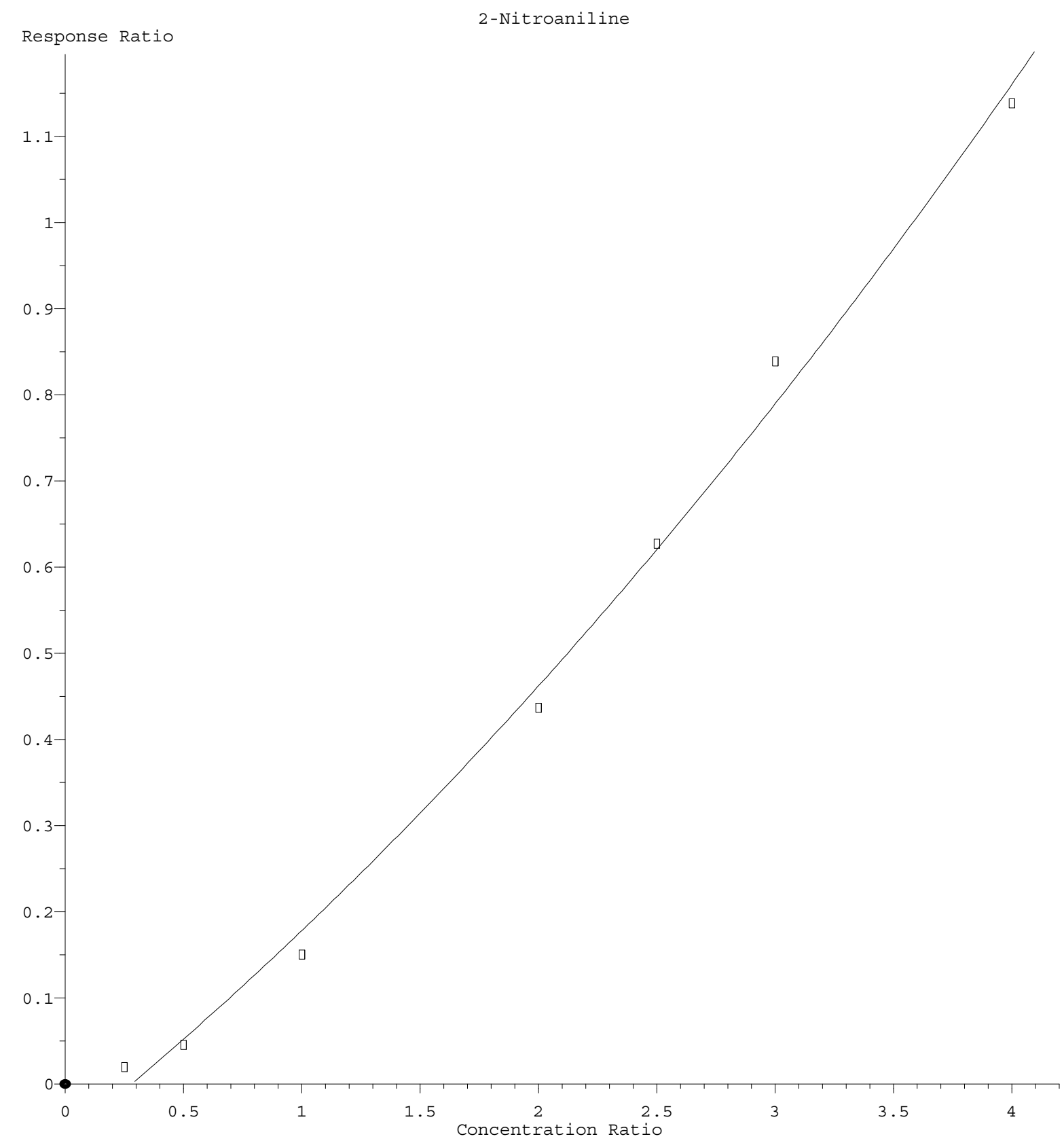
Calibration Table Last Updated: Fri May 12 02:40:29 2023



R = 2.166e-002 A*A + 2.192e-001 A - 6.282e-002
Coef of Det (r^2) = 0.995327 Curve Fit: Quadratic
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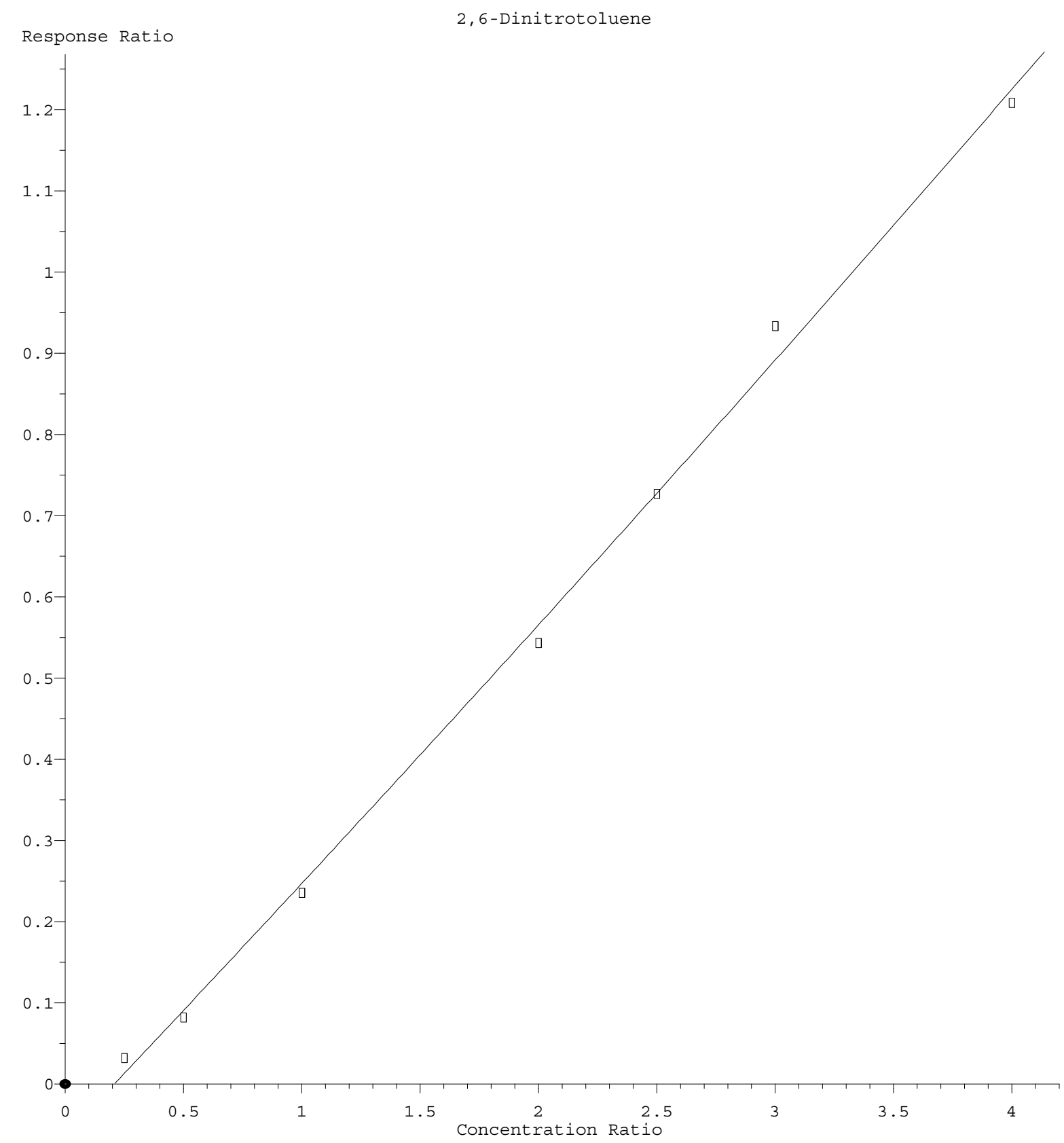
Calibration Table Last Updated: Fri May 12 02:40:29 2023



R = 3.778e-003 A*A + 3.071e-001 A - 6.378e-002
Coef of Det (r^2) = 0.997402 Curve Fit: Quadratic
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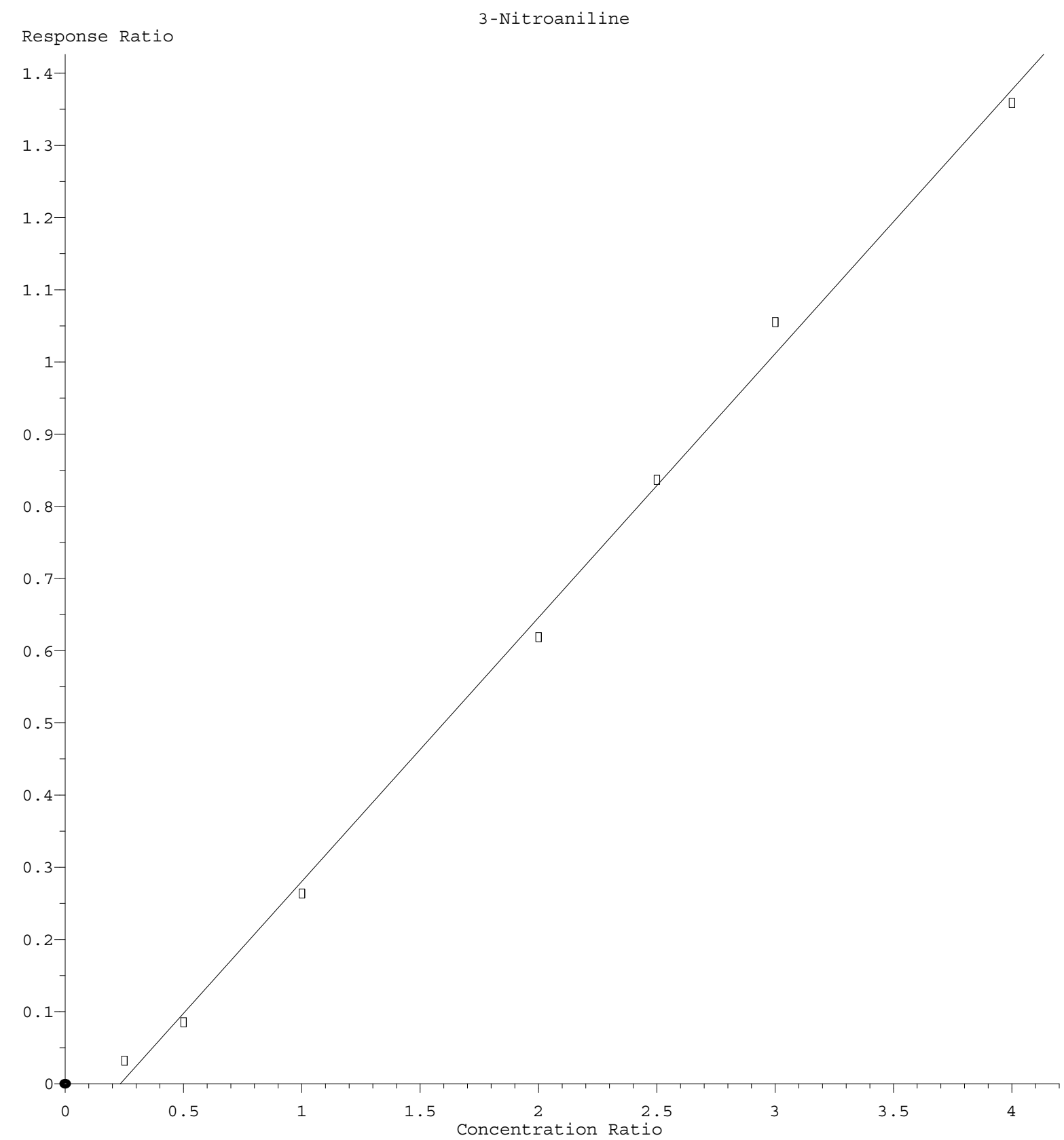
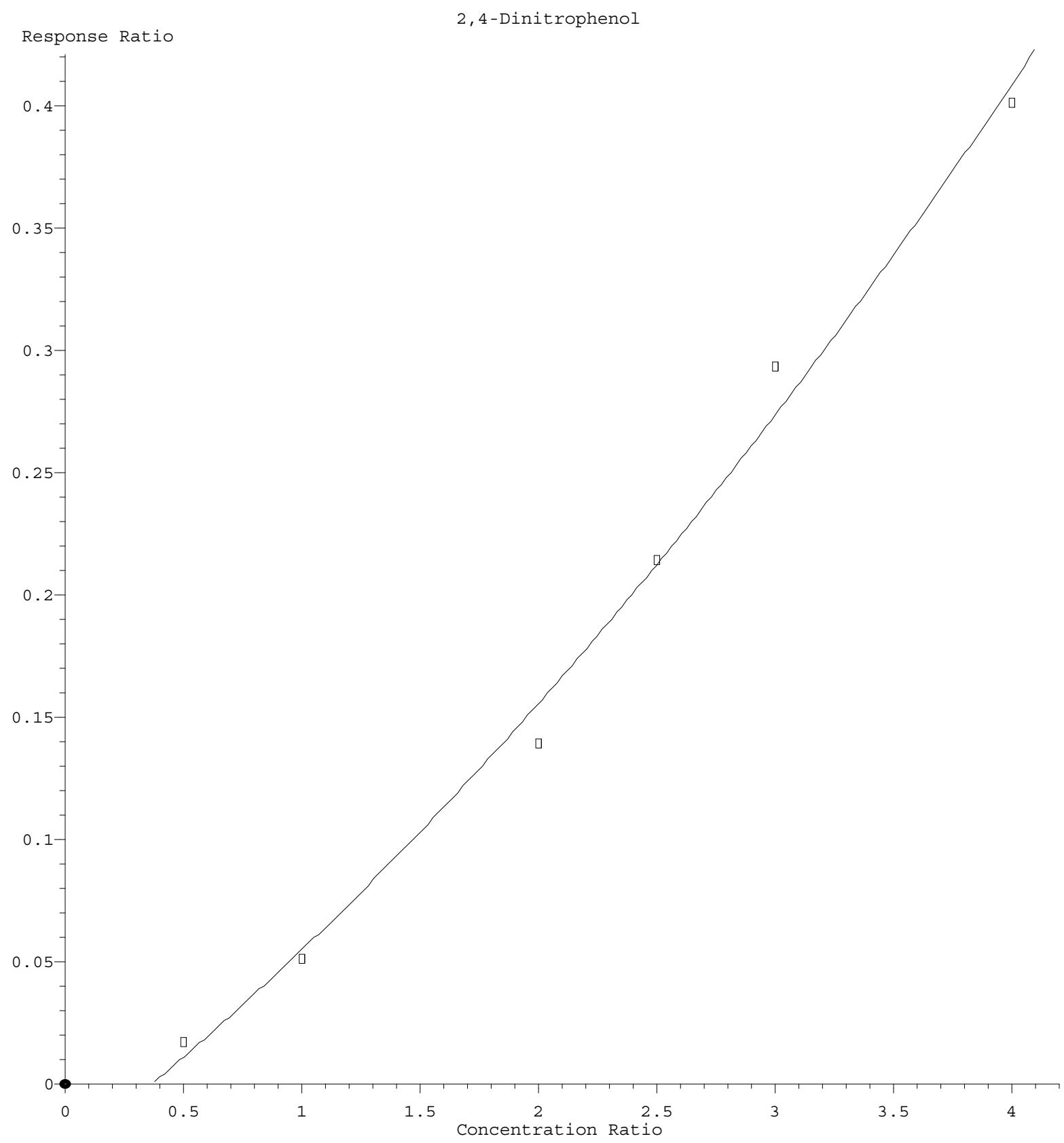
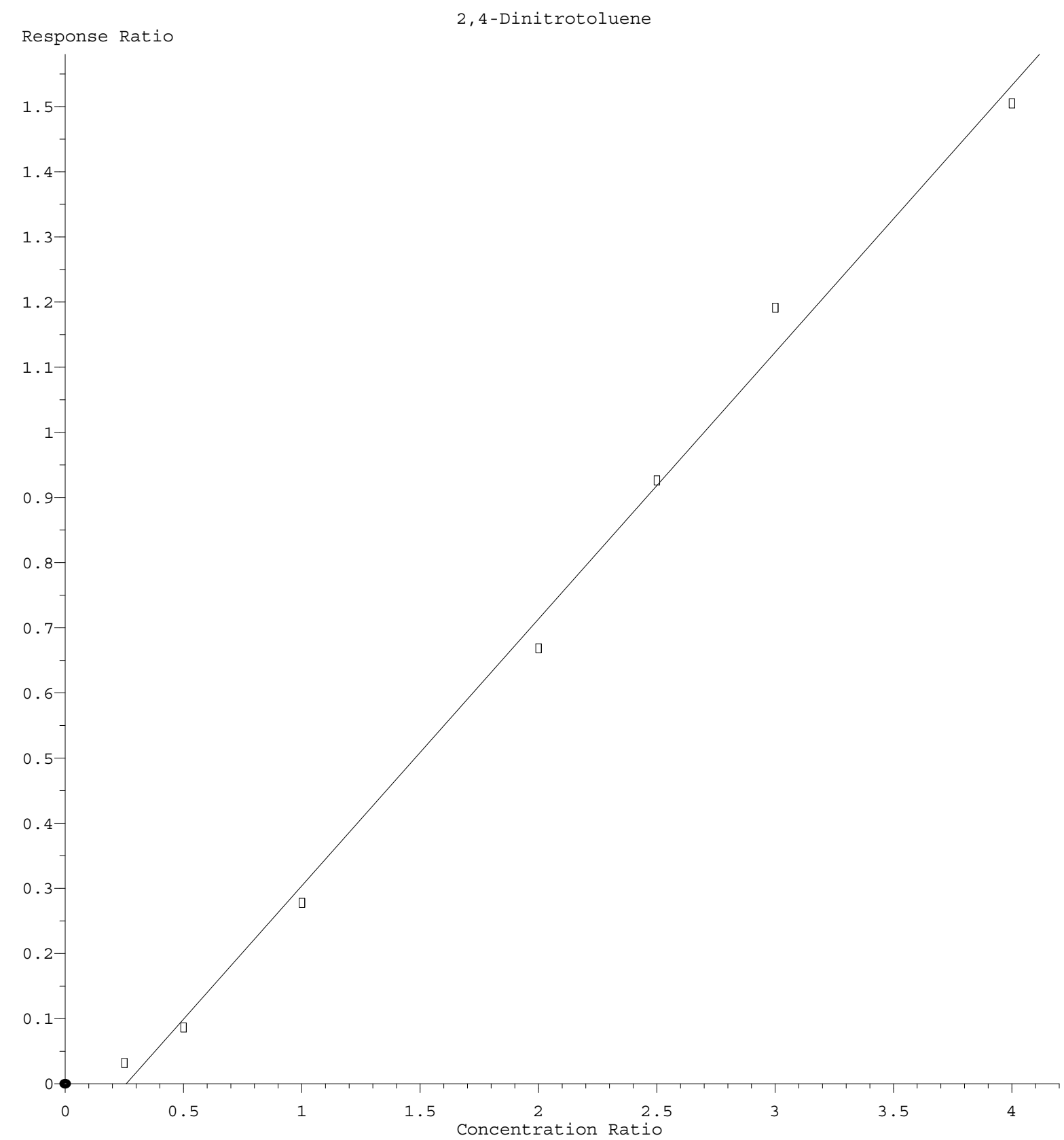
Calibration Table Last Updated: Fri May 12 02:40:29 2023



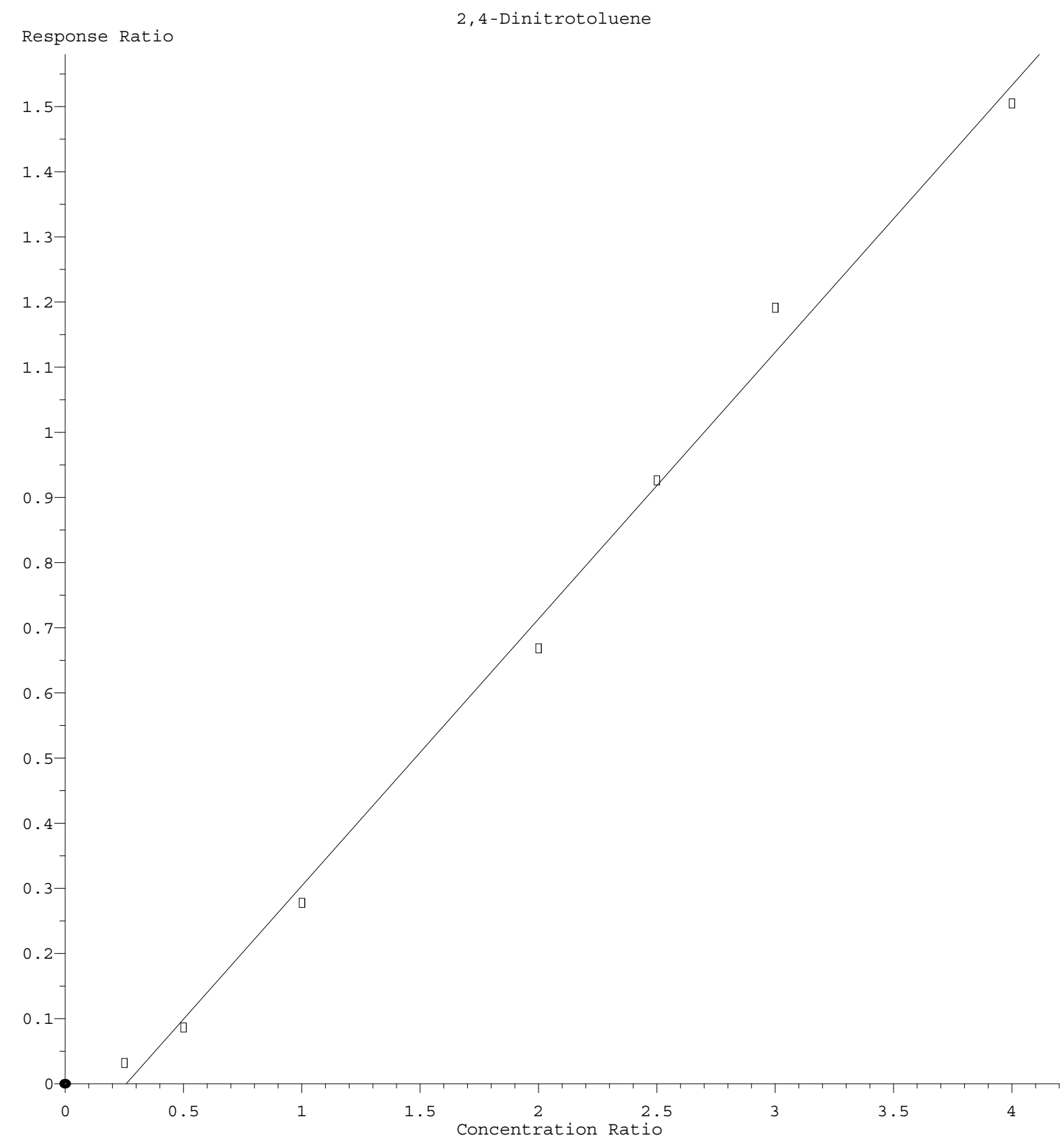
Response = 3.657e-001 * Amt - 8.512e-002
Coef of Det (r^2) = 0.997311 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023



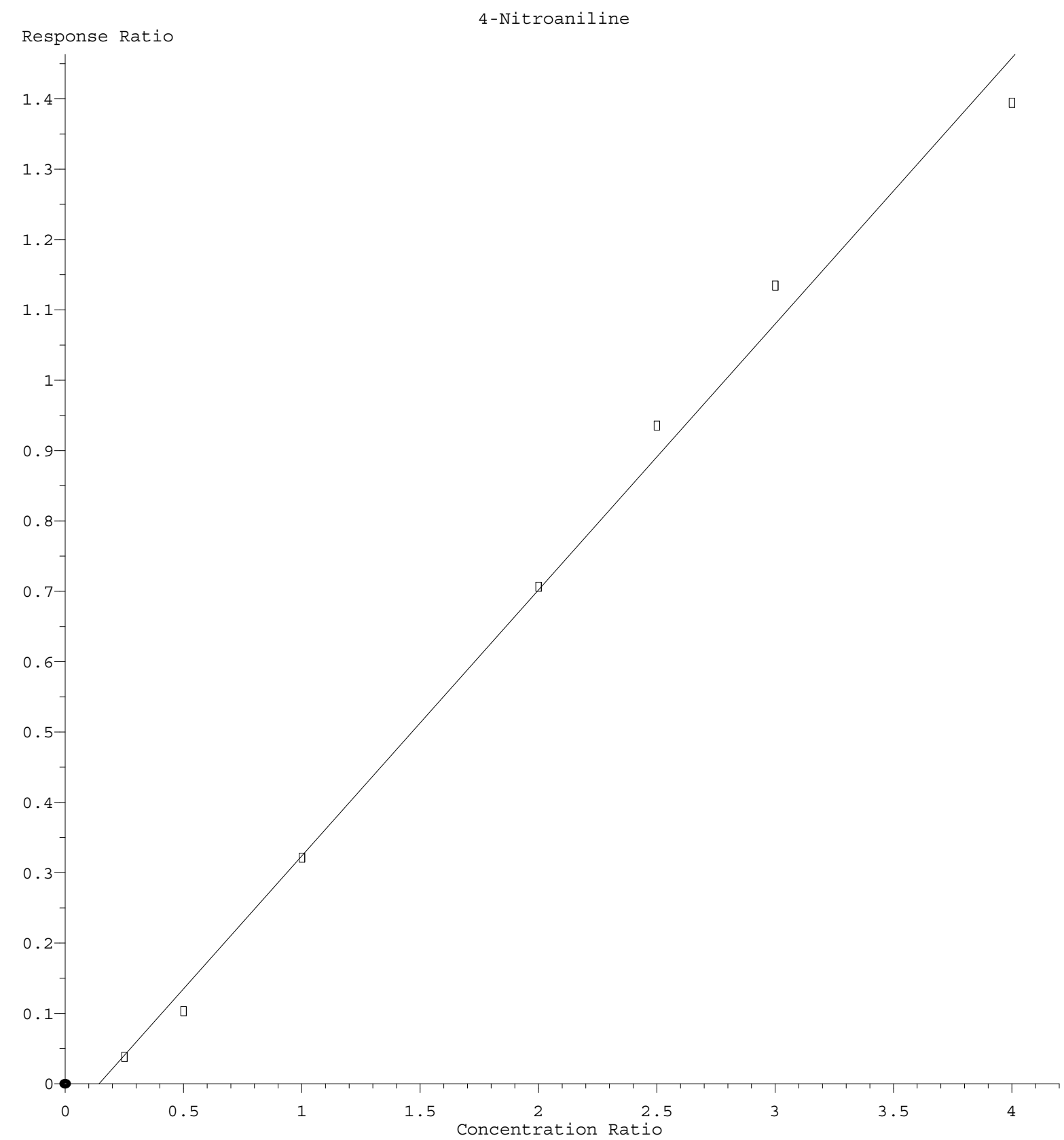
R = 8.616e-003 A*A + 7.490e-002 A - 2.861e-002
Coef of Det (r^2) = 0.992820 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023



Response = 4.096e-001 * Amt - 1.058e-001
Coef of Det (r^2) = 0.995045 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023

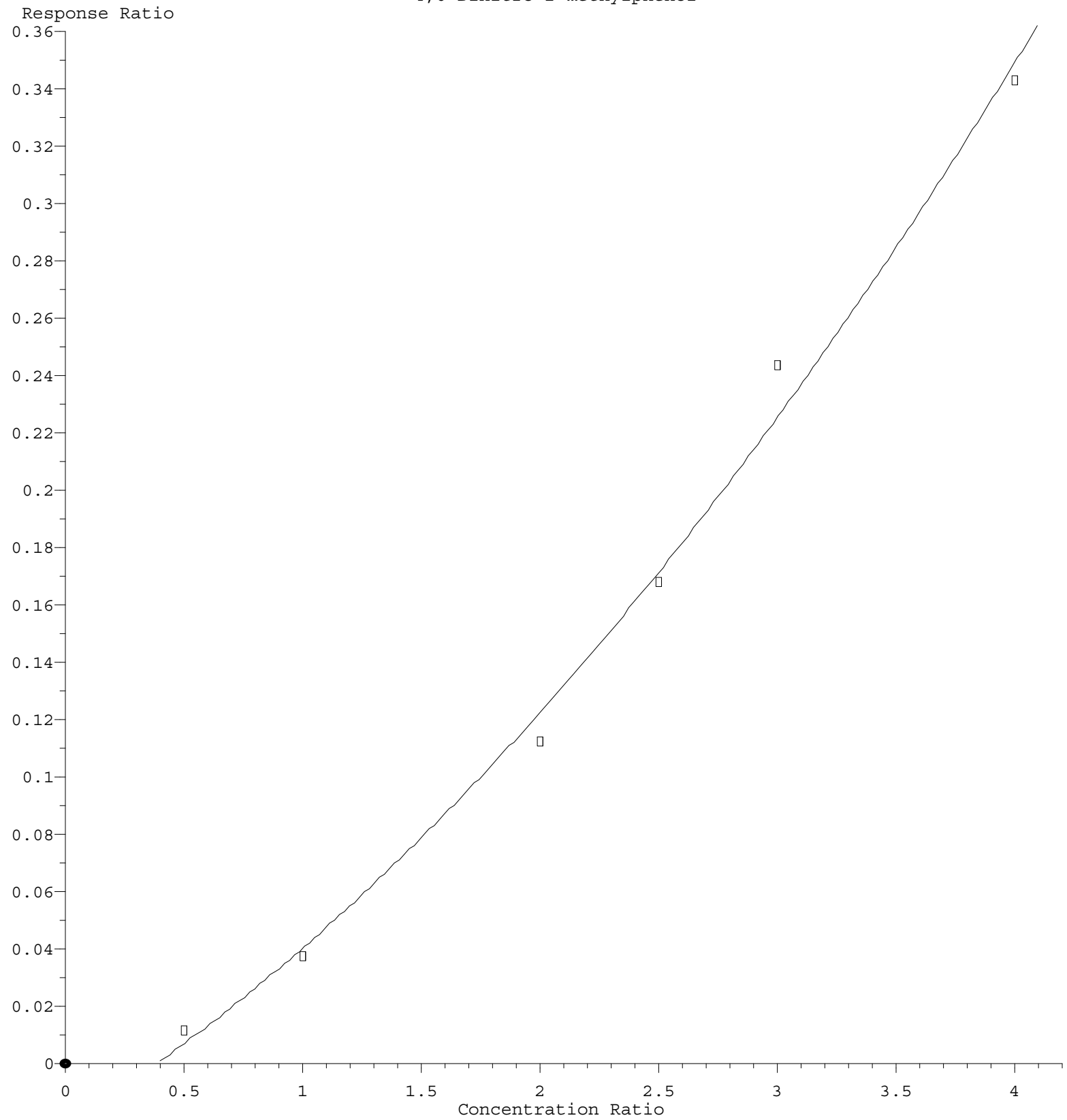


Response = 4.096e-001 * Amt - 1.058e-001
Coef of Det (r^2) = 0.995045 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023

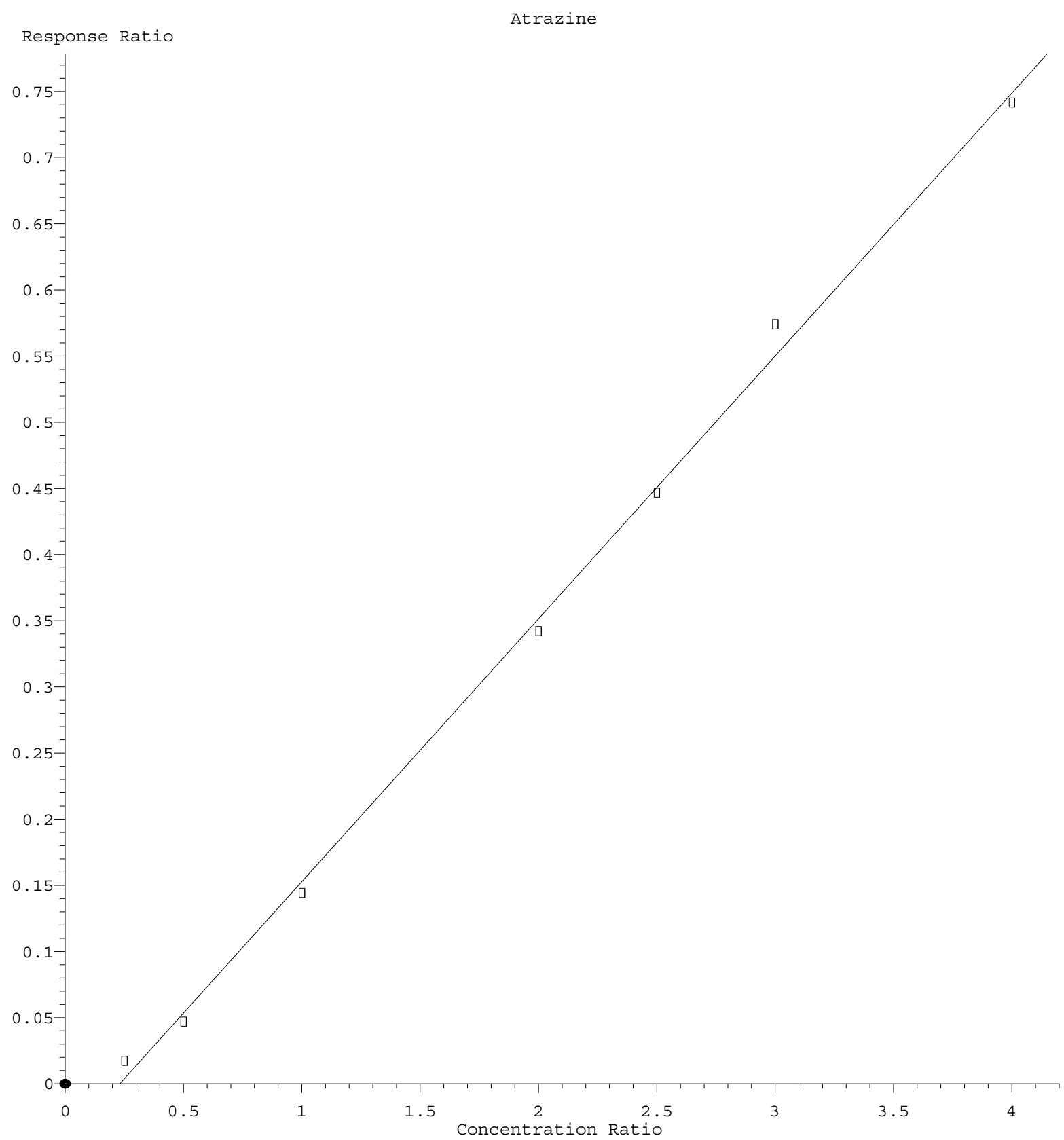


Response = 3.783e-001 * Amt - 5.428e-002
Coef of Det (r^2) = 0.993925 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023

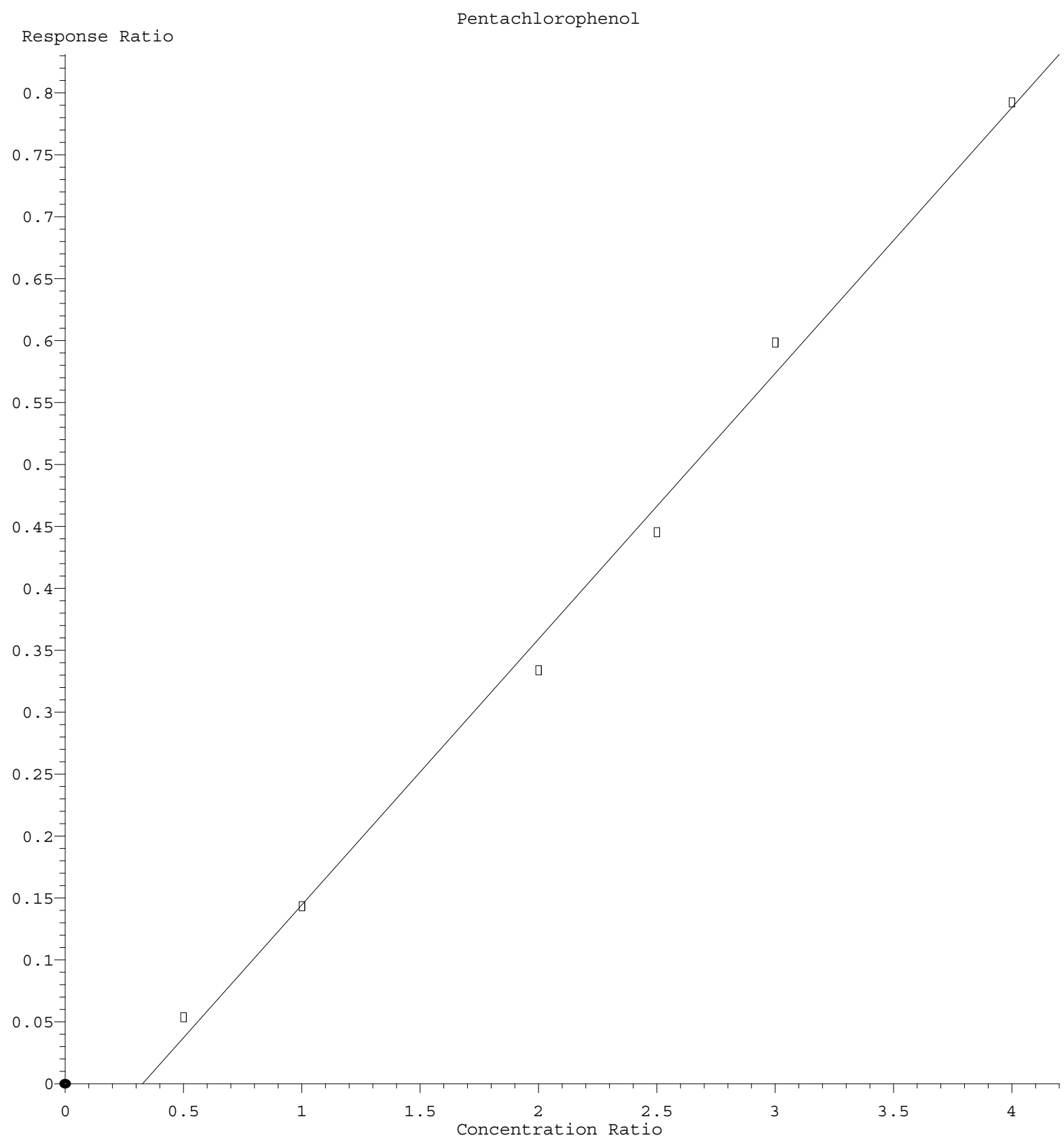
4,6-Dinitro-2-methylphenol



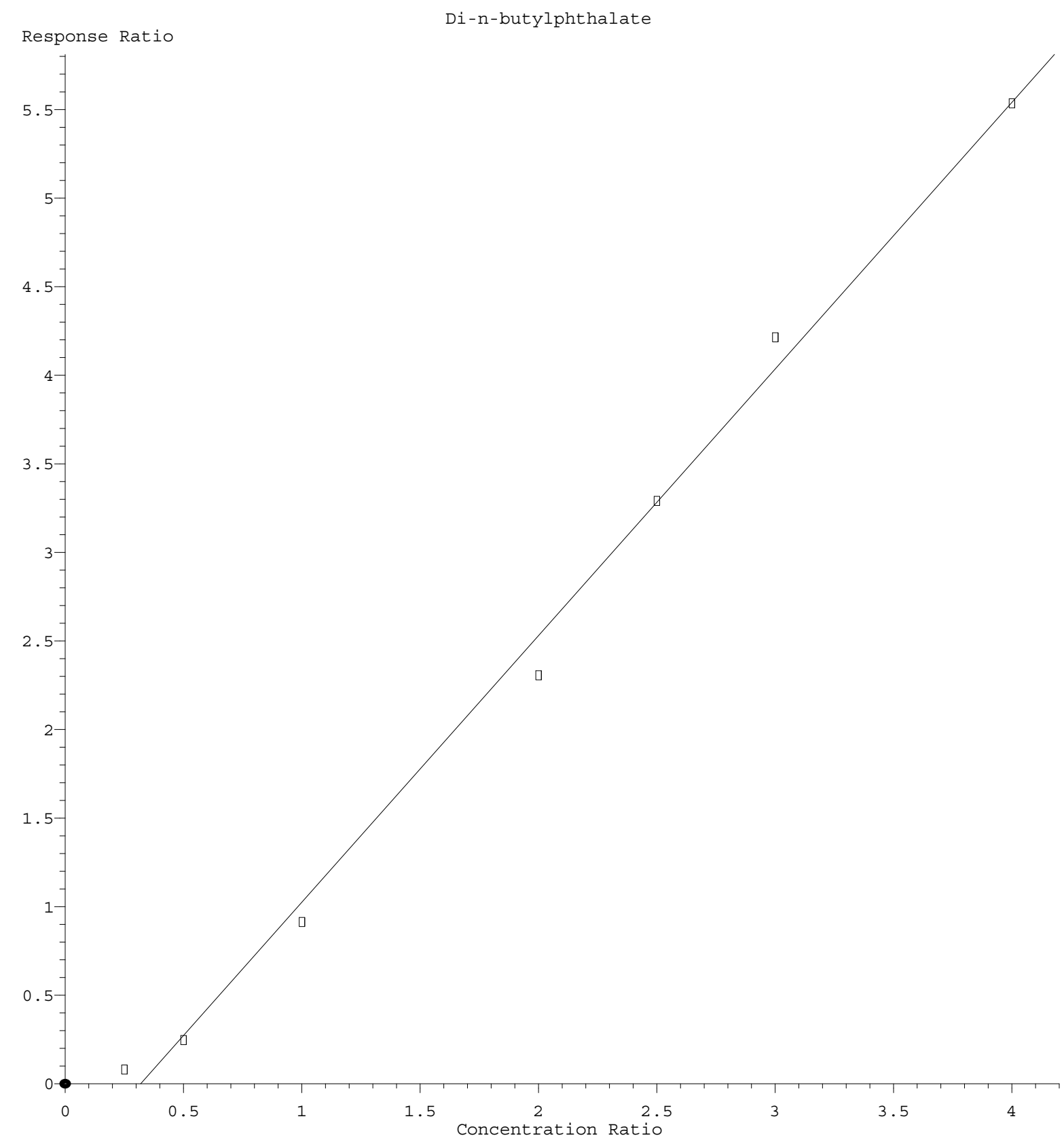
R = 1.035e-002 A*A + 5.117e-002 A - 2.120e-002
Coef of Det (r^2) = 0.993581 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023



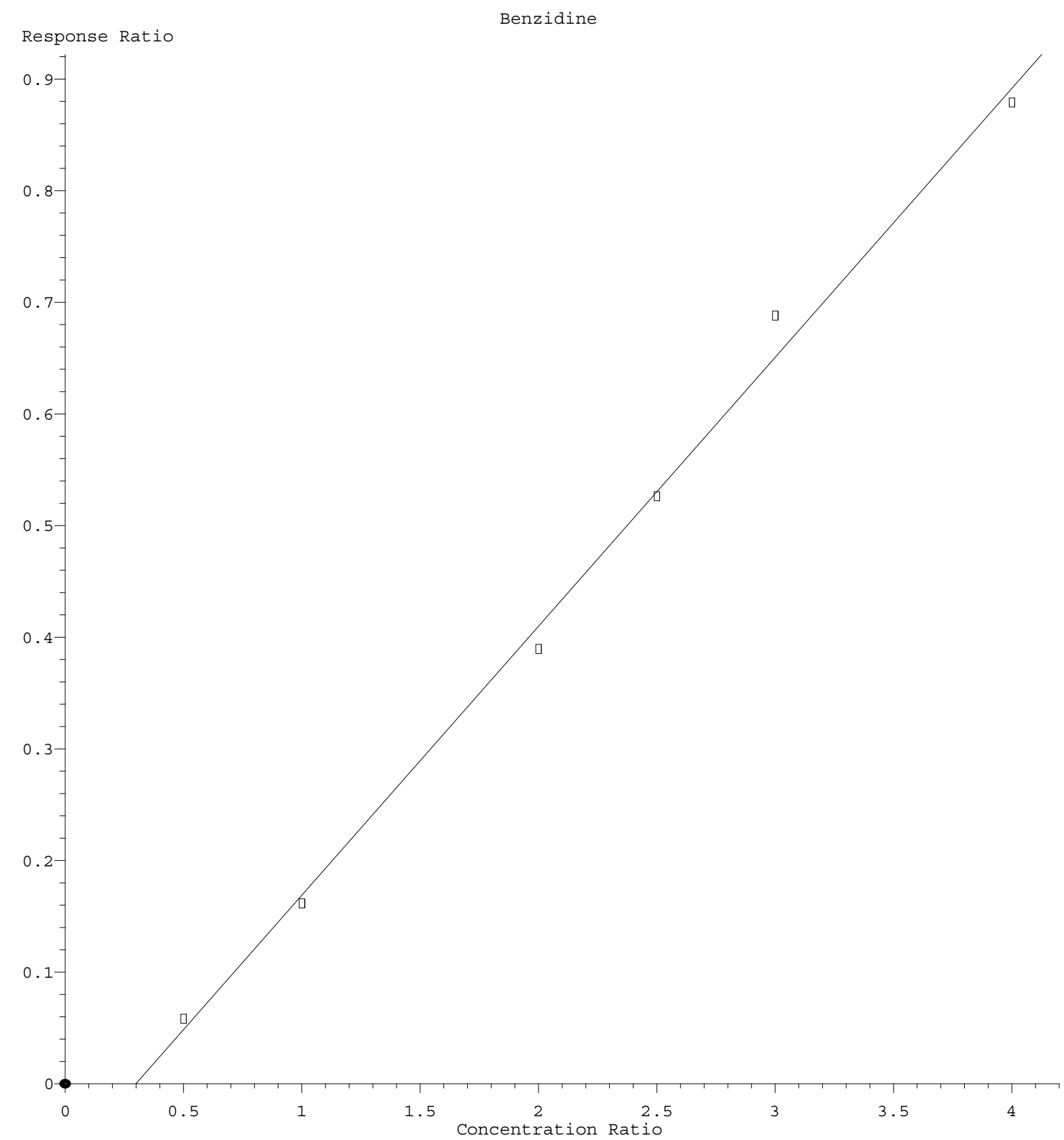
Response = 1.989e-001 * Amt - 4.597e-002
Coef of Det (r^2) = 0.997747 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023



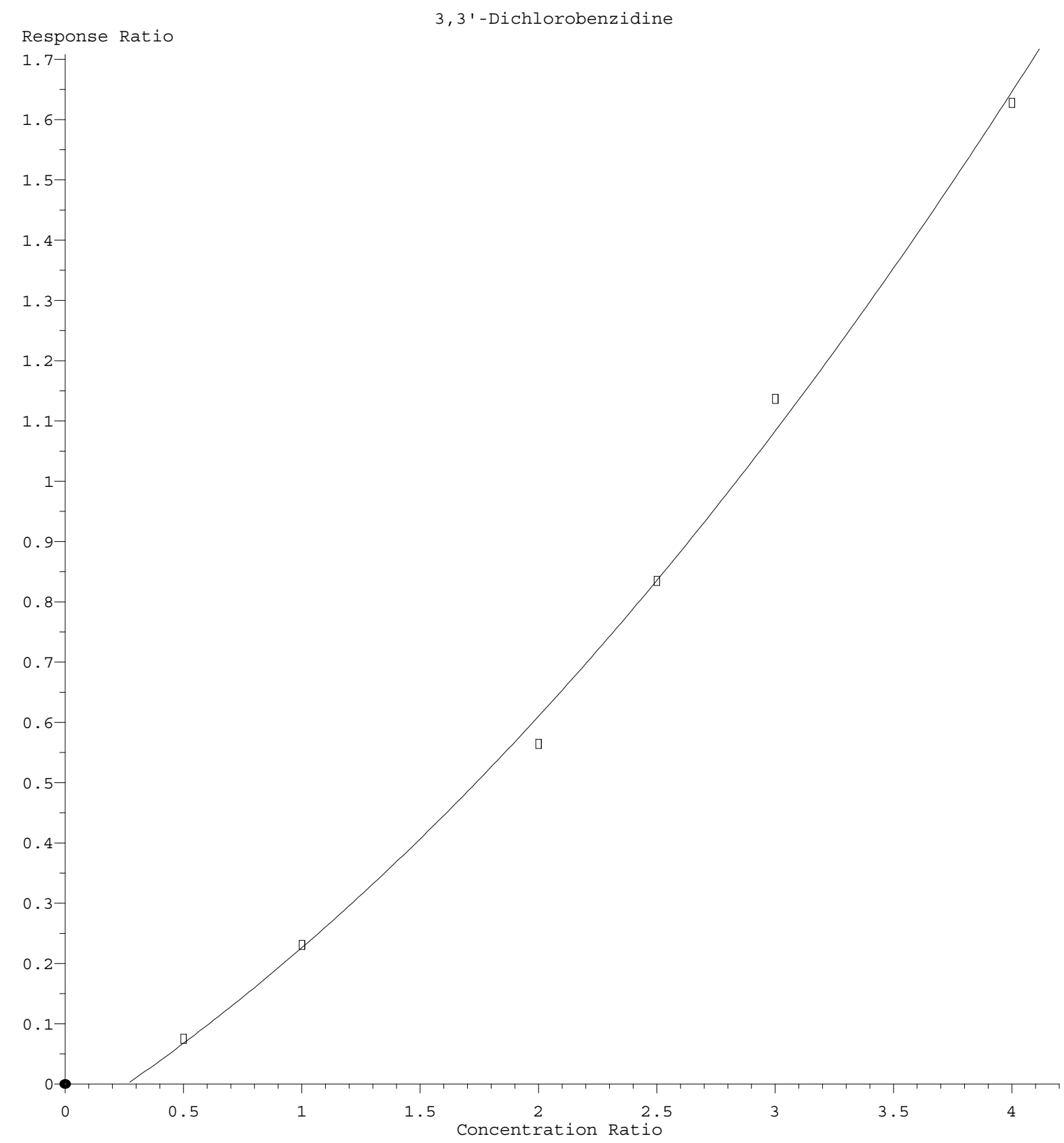
Response = 2.145e-001 * Amt - 7.024e-002
Coef of Det (r^2) = 0.994846 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023



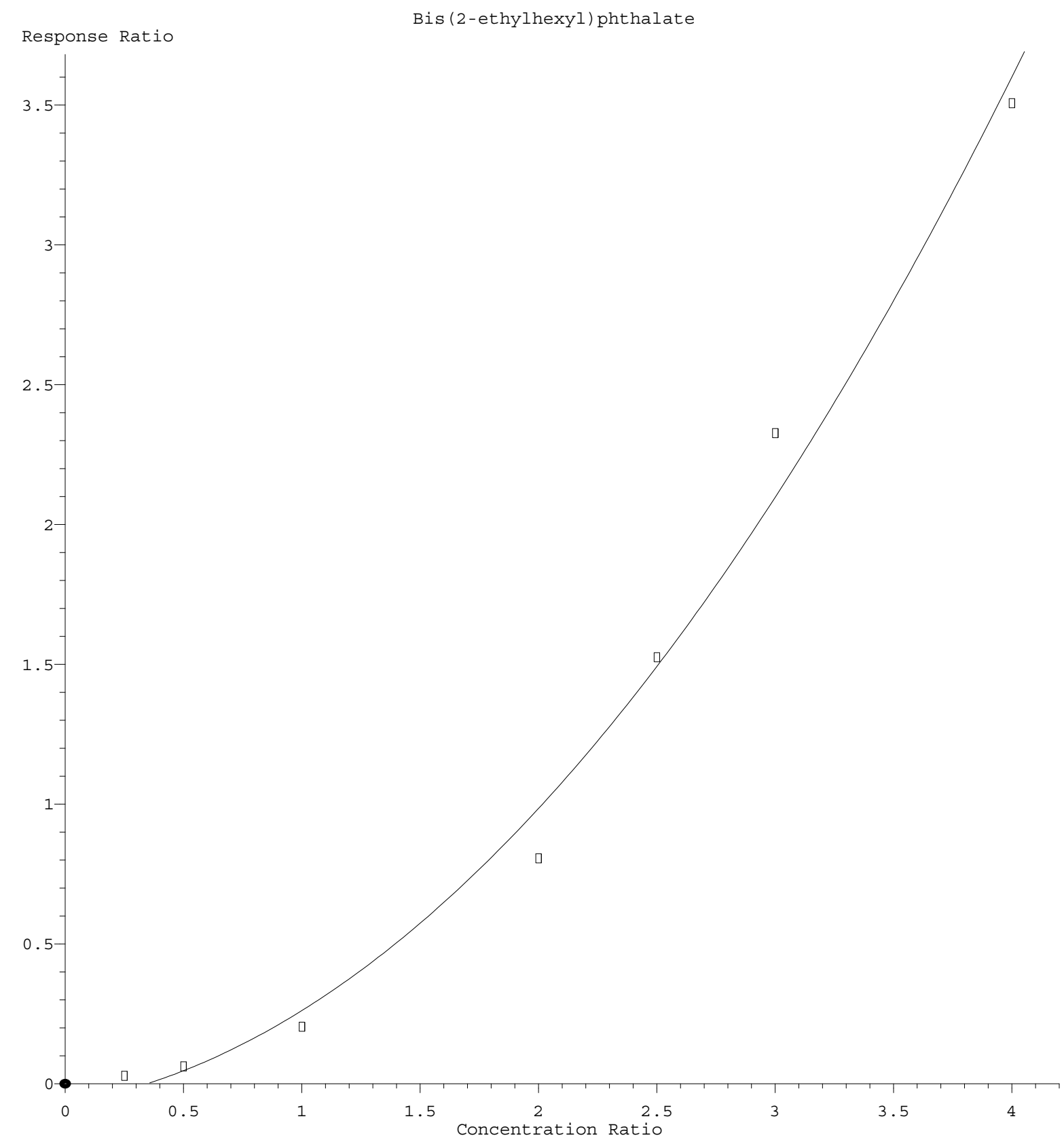
Response = 1.505e+000 * Amt - 4.798e-001
Coef of Det (r^2) = 0.995045 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023



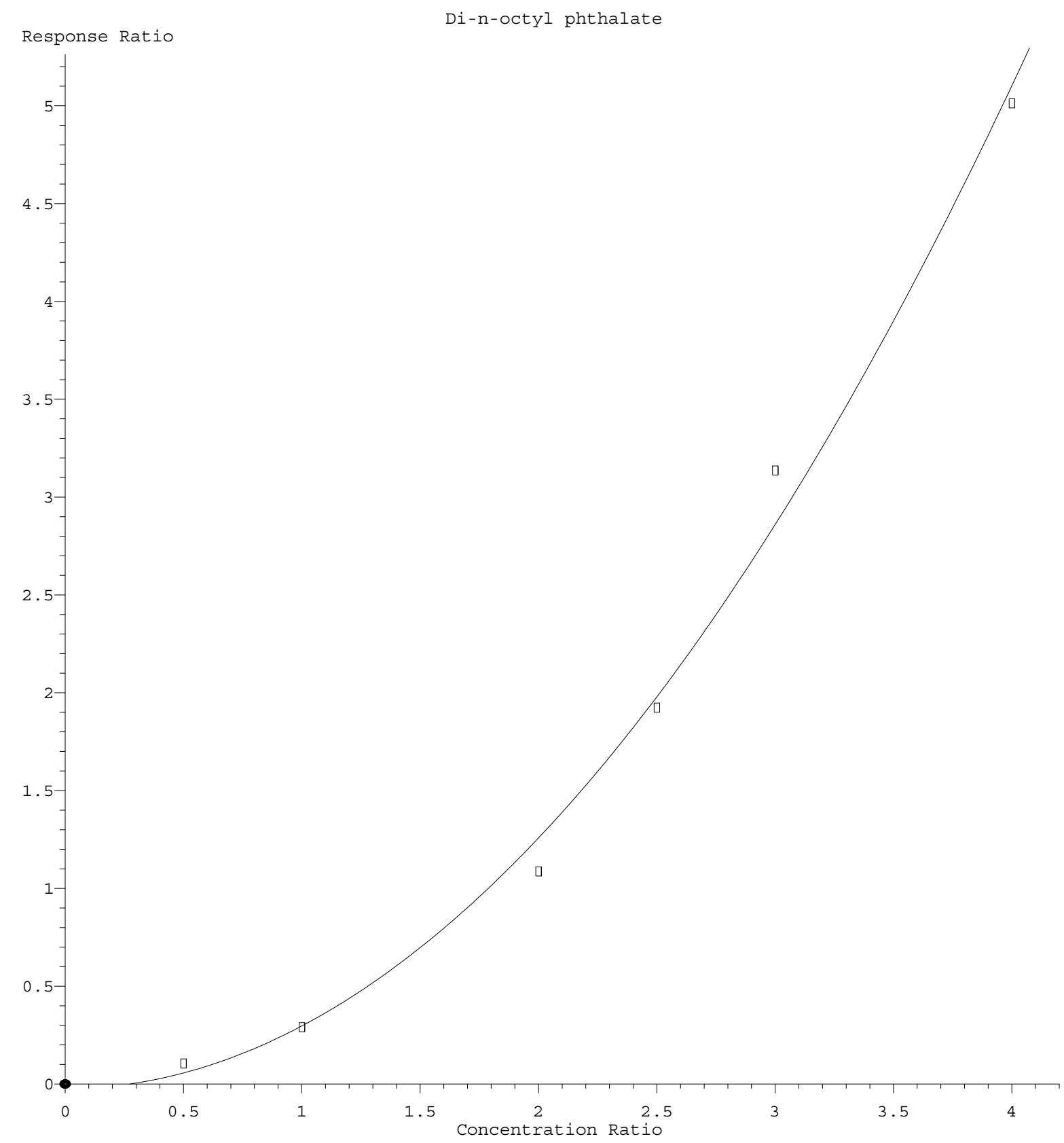
Response = 2.412e-001 * Amt - 7.210e-002
Coef of Det (r^2) = 0.995608 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023



R = 4.470e-002 A*A + 2.499e-001 A - 6.849e-002
Coef of Det (r^2) = 0.996838 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023



R = 1.951e-001 A*A + 1.377e-001 A - 7.099e-002
Coef of Det (r^2) = 0.990418 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023



R = 3.205e-001 A*A - 2.418e-004 A - 2.342e-002
Coef of Det (r^2) = 0.993264 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051123.M
Calibration Table Last Updated: Fri May 12 02:40:29 2023