Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM051223.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat May 13 02:16:09 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BM039913.D 5 =BM039914.D 10 =BM039915.D 20 =BM039916.D 40 =BM039917.D 50 =BM039918.D 60 =BM039919.D 80 =BM0399
20.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.552	0.500	0.511	0.442	0.418	0.421	0.410	0.465	12.03
3)		Pyridine		1.273	1.313	1.459	1.341	1.272	1.294	1.256	1.316	5.27
4)		n-Nitrosodimet...		0.530	0.500	0.521	0.470	0.442	0.436	0.417	0.474	9.34
5)	S	2-Fluorophenol		1.287	1.224	1.319	1.210	1.179	1.210	1.187	1.231	4.26
6)		Aniline		2.070	2.007	2.088	2.067	2.022	2.064	1.956	2.039	2.28
7)	S	Phenol-d6		1.632	1.614	1.715	1.644	1.611	1.659	1.604	1.640	2.34
8)		2-Chlorophenol		1.352	1.322	1.427	1.399	1.377	1.413	1.349	1.377	2.78
9)		Benzaldehyde			1.091	0.964	0.731	0.695	0.653		0.827	23.10
10)	C	Phenol		1.708	1.645	1.726	1.632	1.598	1.644	1.581	1.648	3.22
11)		bis(2-Chloroet...		1.490	1.412	1.410	1.362	1.343	1.361	1.281	1.380	4.76
12)		1,3-Dichlorobe...		1.495	1.434	1.478	1.408	1.382	1.418	1.360	1.425	3.41
13)	C	1,4-Dichlorobe...		1.532	1.466	1.514	1.460	1.414	1.450	1.396	1.462	3.37
14)		1,2-Dichlorobe...		1.502	1.451	1.512	1.447	1.396	1.431	1.379	1.445	3.42
15)		Benzyl Alcohol		1.006	1.006	1.109	1.153	1.127	1.157	1.088	1.092	5.82
16)		2,2'-oxybis(1-...		1.752	1.623	1.611	1.541	1.447	1.444	1.307	1.532	9.56
17)		2-Methylphenol		1.190	1.179	1.262	1.255	1.204	1.234	1.152	1.211	3.37
18)		Hexachloroethane		0.502	0.481	0.519	0.517	0.509	0.526	0.506	0.509	2.92
19)	P	n-Nitroso-di-n...	0.975	1.081	1.086	1.130	1.177	1.118	1.118	1.021	1.088	5.88
20)		3+4-Methylphenols		1.574	1.520	1.649	1.671	1.621	1.665	1.568	1.610	3.55
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.526	0.506	0.545	0.533	0.520	0.538	0.523	0.527	2.45
23)	S	Nitrobenzene-d5		0.270	0.295	0.354	0.364	0.359	0.378	0.370	0.341	12.16
24)		Nitrobenzene		0.302	0.318	0.363	0.358	0.352	0.367	0.356	0.345	7.19
25)		Isophorone		0.688	0.668	0.711	0.721	0.705	0.729	0.702	0.703	2.90
26)	C	2-Nitrophenol		0.061	0.074	0.107	0.130	0.143	0.163	0.170	0.121	34.95#
27)		2,4-Dimethylph...		0.265	0.268	0.300	0.307	0.307	0.326	0.322	0.299	8.06
28)		bis(2-Chloroet...		0.427	0.412	0.432	0.435	0.430	0.447	0.434	0.431	2.44
29)	C	2,4-Dichloroph...		0.232	0.247	0.280	0.293	0.296	0.322	0.320	0.284	12.11
30)		1,2,4-Trichlor...		0.295	0.282	0.305	0.308	0.311	0.335	0.339	0.311	6.58
31)		Naphthalene		1.086	1.048	1.113	1.080	1.063	1.116	1.090	1.085	2.26
32)		Benzoic acid			0.070	0.113	0.169	0.184	0.206	0.219	0.160	36.03
33)		4-Chloroaniline		0.436	0.438	0.469	0.491	0.489	0.506	0.496	0.475	5.87
34)	C	Hexachlorobuta...		0.164	0.161	0.174	0.174	0.179	0.193	0.194	0.177	7.38
35)		Caprolactam		0.064	0.072	0.077	0.095	0.096	0.097	0.096	0.085	16.34
36)	C	4-Chloro-3-met...		0.272	0.276	0.294	0.316	0.317	0.328	0.324	0.304	7.58
37)		2-Methylnaphth...		0.732	0.709	0.751	0.782	0.785	0.833	0.817	0.773	5.79
38)		1-Methylnaphth...		0.697	0.667	0.698	0.741	0.745	0.785	0.765	0.728	5.78

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM051223.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.510	0.511	0.601	0.607	0.617	0.683	0.693	0.603	12.07
41)	P	Hexachlorocycl...		0.153	0.218	0.257	0.285	0.343	0.364	0.270	29.12
42)	S	2,4,6-Tribromo...		0.230	0.269	0.349	0.361	0.382	0.395	0.331	20.02
43)	C	2,4,6-Trichlor...	0.274	0.299	0.361	0.389	0.392	0.431	0.435	0.369	16.85
44)		2,4,5-Trichlor...	0.328	0.363	0.421	0.456	0.460	0.504	0.513	0.435	15.97
45)	S	2-Fluorobiphenyl	1.449	1.468	1.691	1.721	1.667	1.618	1.330	1.564	9.48
46)		1,1'-Biphenyl	1.523	1.513	1.702	1.694	1.656	1.766	1.744	1.657	6.12
47)		2-Chloronaphth...	1.119	1.125	1.281	1.253	1.226	1.309	1.290	1.229	6.31
48)		2-Nitroaniline	0.123	0.161	0.239	0.298	0.304	0.321	0.327	0.253	32.35
49)		Acenaphthylene	1.754	1.814	2.016	2.068	2.019	2.126	2.074	1.982	7.12
50)		Dimethylphthalate	1.437	1.431	1.509	1.609	1.596	1.682	1.654	1.560	6.50
51)		2,6-Dinitrotol...	0.173	0.217	0.265	0.309	0.314	0.337	0.340	0.279	22.84
52)	C	Acenaphthene	1.150	1.144	1.271	1.337	1.327	1.402	1.407	1.291	8.43
53)		3-Nitroaniline	0.193	0.248	0.302	0.364	0.367	0.384	0.390	0.321	23.70
54)	P	2,4-Dinitrophenol		0.047	0.067	0.105	0.119	0.135	0.150	0.104	38.43
55)		Dibenzofuran	1.813	1.794	1.920	1.977	1.943	2.031	1.992	1.924	4.67
56)	P	4-Nitrophenol		0.197	0.236	0.292	0.294	0.299	0.306	0.271	16.35
57)		2,4-Dinitrotol...	0.190	0.247	0.316	0.407	0.419	0.441	0.456	0.354	29.34
58)		Fluorene	1.456	1.477	1.647	1.835	1.786	1.848	1.787	1.691	9.85
59)		2,3,4,6-Tetrac...	0.275	0.297	0.329	0.377	0.387	0.415	0.422	0.358	16.14
60)		Diethylphthalate	1.465	1.479	1.529	1.696	1.672	1.729	1.688	1.608	7.02
61)		4-Chlorophenyl...	0.696	0.712	0.792	0.898	0.893	0.945	0.938	0.839	12.52
62)		4-Nitroaniline	0.218	0.274	0.333	0.417	0.412	0.405	0.404	0.352	22.57
63)		Azobenzene	1.560	1.535	1.601	1.594	1.511	1.520	1.450	1.538	3.40
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.036	0.058	0.081	0.091	0.104	0.113	0.080	36.14
66)	c	n-Nitrosodiphe...	0.572	0.584	0.715	0.713	0.707	0.775	0.758	0.689	11.62
67)		4-Bromophenyl-...	0.185	0.185	0.228	0.239	0.245	0.271	0.276	0.233	15.80
68)		Hexachlorobenzene	0.234	0.230	0.266	0.275	0.283	0.313	0.317	0.274	12.55
69)		Atrazine	0.130	0.145	0.169	0.196	0.193	0.201	0.200	0.176	16.34
70)	C	Pentachlorophenol		0.122	0.150	0.181	0.190	0.205	0.214	0.177	19.69
71)		Phenanthrene	1.092	1.063	1.189	1.240	1.224	1.287	1.169	1.181	6.79
72)		Anthracene	1.014	1.038	1.188	1.283	1.266	1.326	1.156	1.182	10.25
73)		Carbazole	0.932	0.941	1.035	1.152	1.139	1.164	1.102	1.066	9.22
74)		Di-n-butylphth...	0.900	1.023	1.155	1.425	1.429	1.354	1.129	1.202	17.15
75)	C	Fluoranthene	1.000	1.033	1.058	1.370	1.386	1.309	1.143	1.186	14.01
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.204	0.247	0.289	0.282	0.265	0.292	0.303	0.269	12.64
78)		Pyrene	1.189	1.197	1.583	1.395	1.397	1.737	1.441	1.420	13.82
79)	S	Terphenyl-d14	1.086	1.121	1.535	1.145	0.945	1.080	0.823	1.105	19.98
80)		Butylbenzylpht...	0.169	0.239	0.364	0.493	0.535	0.639	0.661	0.443	43.23
81)		Benzo(a)anthra...	1.238	1.243	1.384	1.452	1.432	1.527	1.342	1.374	7.84
82)		3,3'-Dichlorob...		0.250	0.309	0.417	0.443	0.456	0.473	0.391	23.17
83)		Chrysene	1.175	1.158	1.332	1.362	1.329	1.427	1.276	1.294	7.59
84)		Bis(2-ethylhex...	0.405	0.533	0.681	0.940	0.970	1.062	0.994	0.798	32.20
85)	c	Di-n-octyl pht...		0.724	0.888	1.301	1.385	1.422	1.303	1.171	24.87

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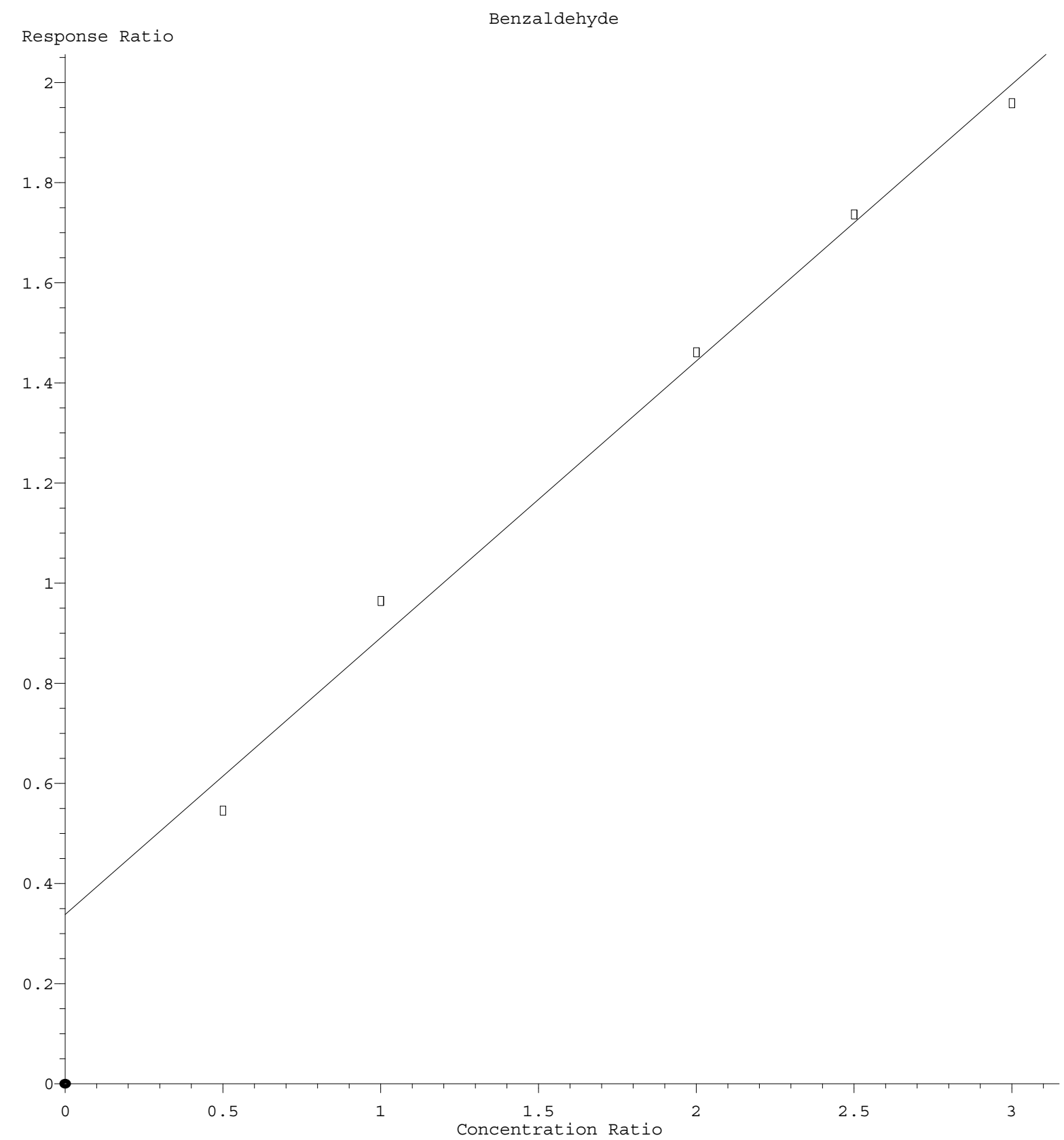
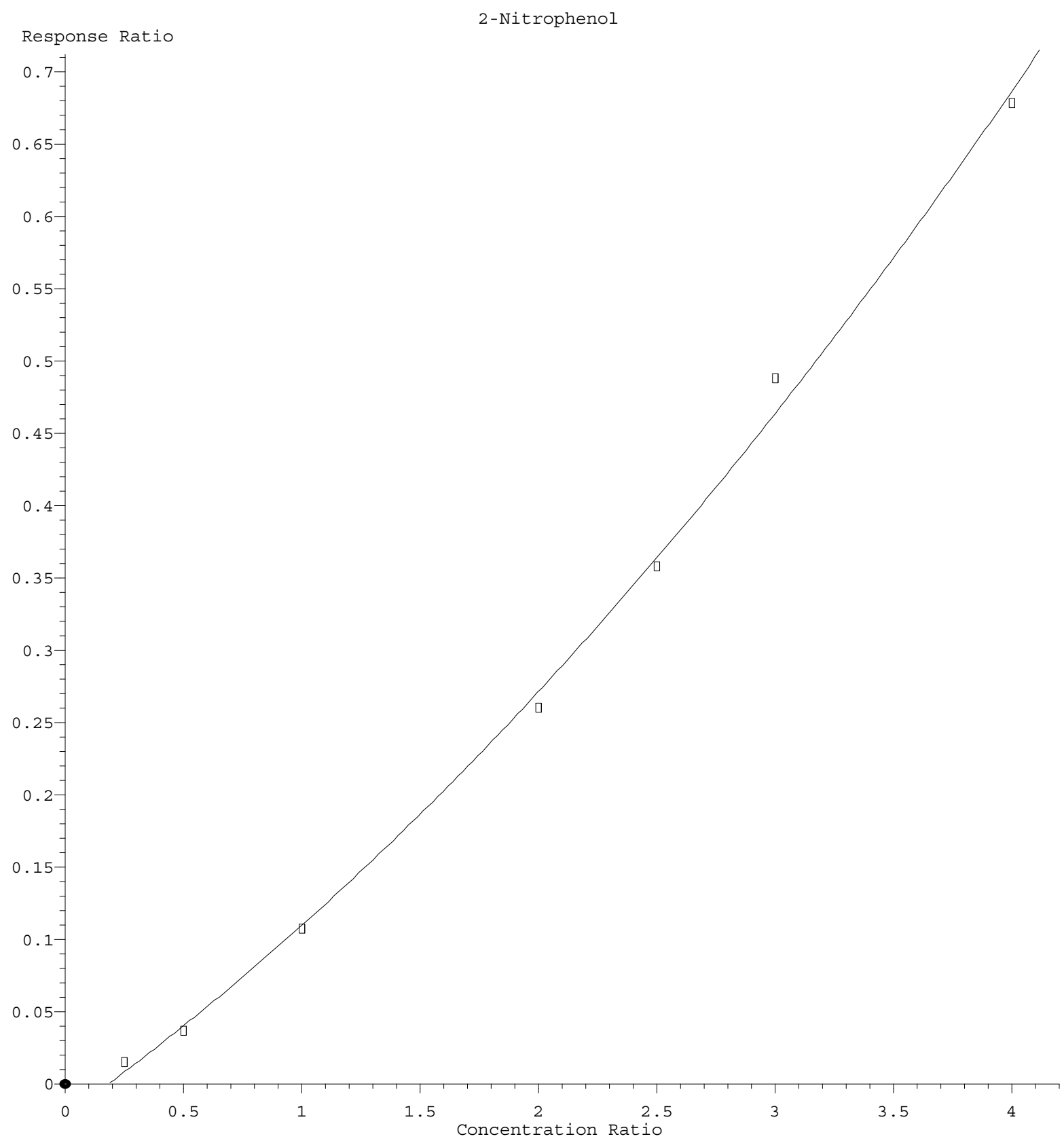
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.088	1.181	1.405	1.416	1.455	1.720	1.644	1.416	16.02
88)		Benzo(b)fluora...	0.978	1.065	1.251	1.339	1.437	1.529	1.542	1.306	16.91
89)		Benzo(k)fluora...	1.097	1.112	1.394	1.460	1.501	1.635	1.663	1.409	16.19
90)	C	Benzo(a)pyrene	0.893	0.963	1.164	1.253	1.325	1.420	1.431	1.207	17.61
91)		Dibenzo(a,h)an...	0.932	1.005	1.210	1.239	1.276	1.500	1.433	1.228	16.83
92)		Benzo(g,h,i)pe...	0.877	0.920	1.085	1.007	1.034	1.277	1.205	1.058	13.66

(#) = Out of Range



Response = 5.528e-001 * Amt + 3.380e-001
Coef of Det (r^2) = 0.990858 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023



R = 1.530e-002 A*A + 1.159e-001 A - 2.153e-002
Coef of Det (r^2) = 0.997603 Curve Fit: Quadratic
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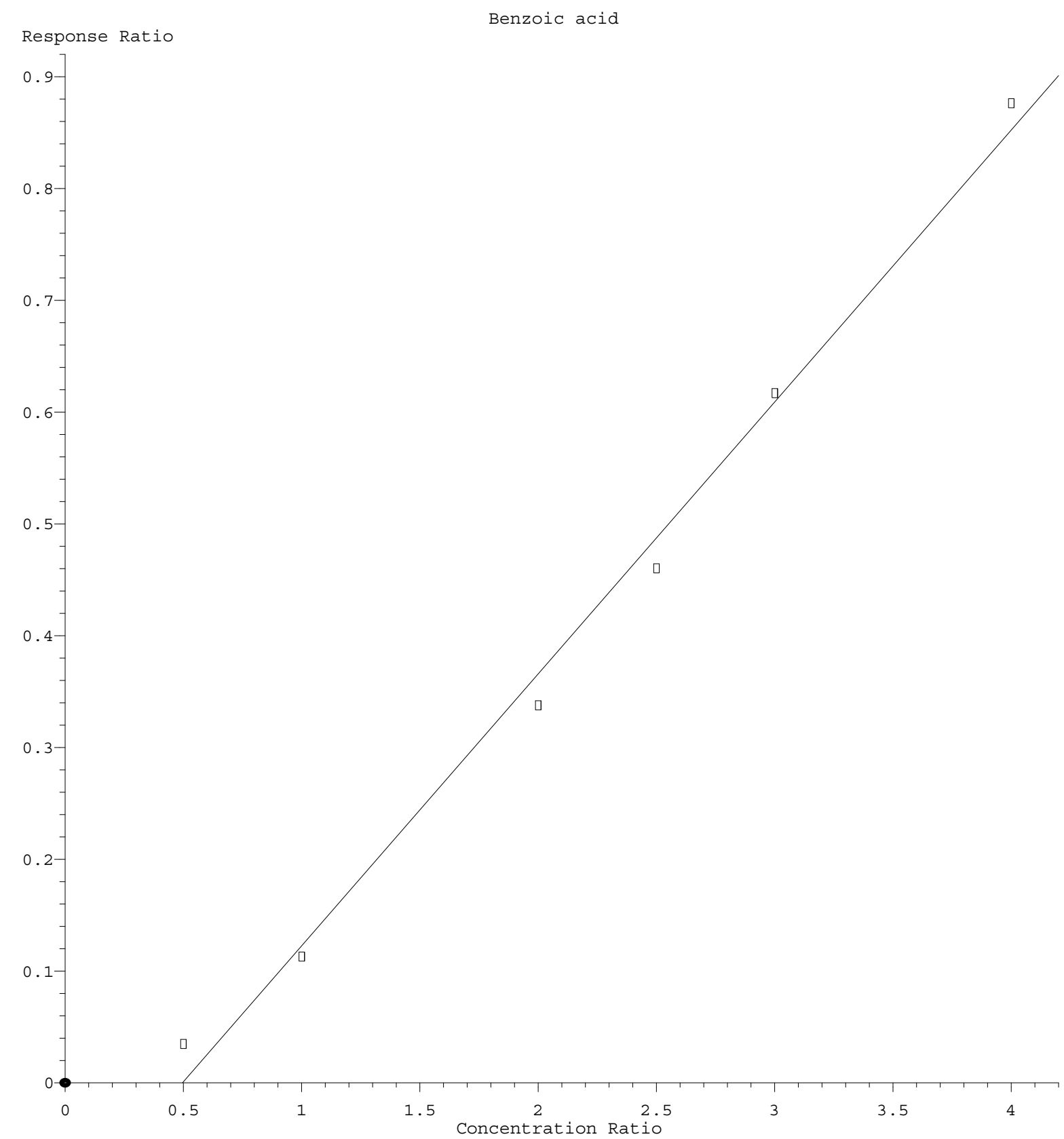
Calibration Table Last Updated: Sat May 13 02:16:09 2023



Response = 2.434e-001 * Amt - 1.208e-001
Coef of Det (r^2) = 0.993145 Curve Fit: Linear
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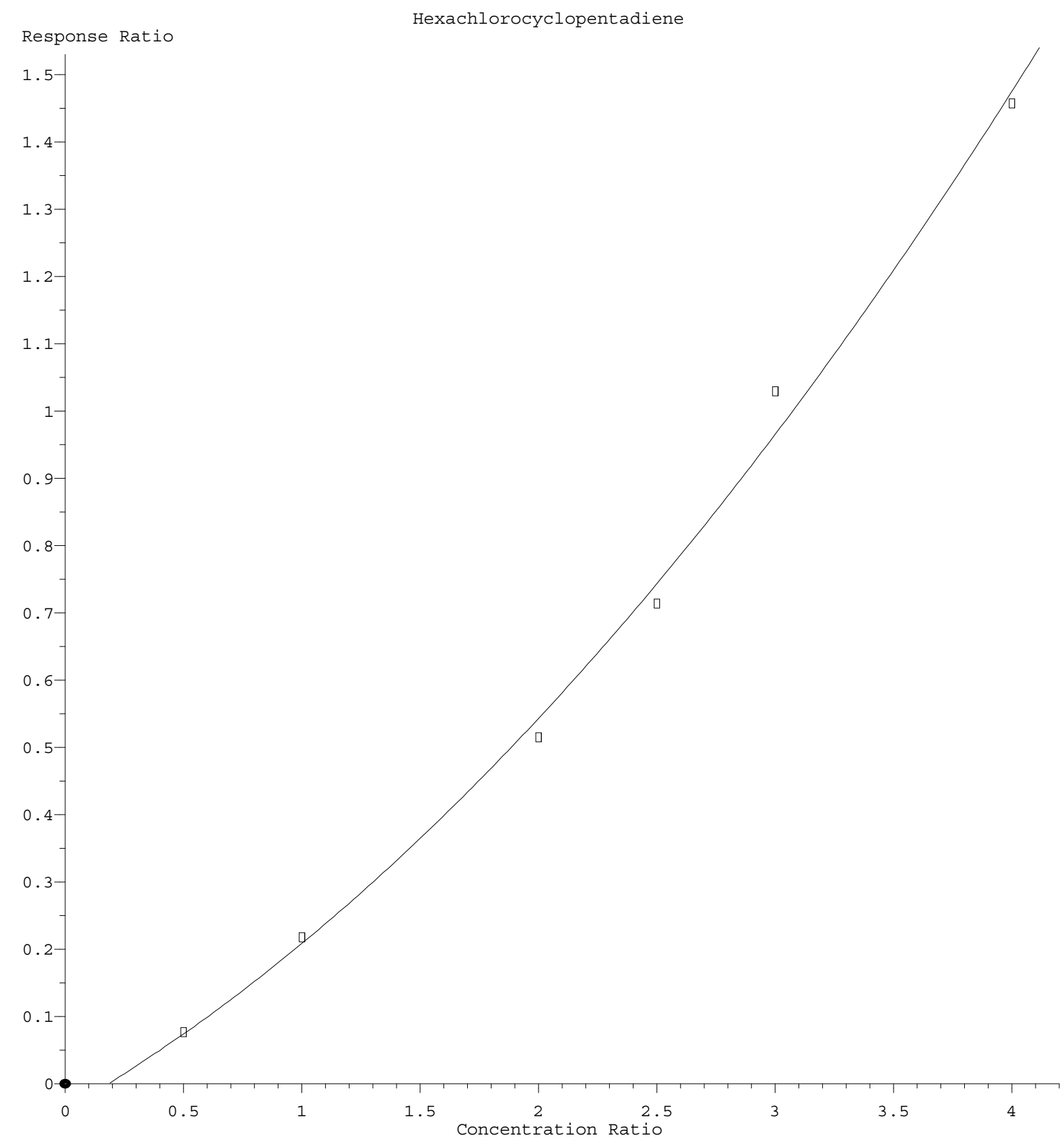
Calibration Table Last Updated: Sat May 13 02:16:09 2023



R = 4.380e-002 A*A + 2.032e-001 A - 3.858e-002
Coef of Det (r^2) = 0.995371 Curve Fit: Quadratic
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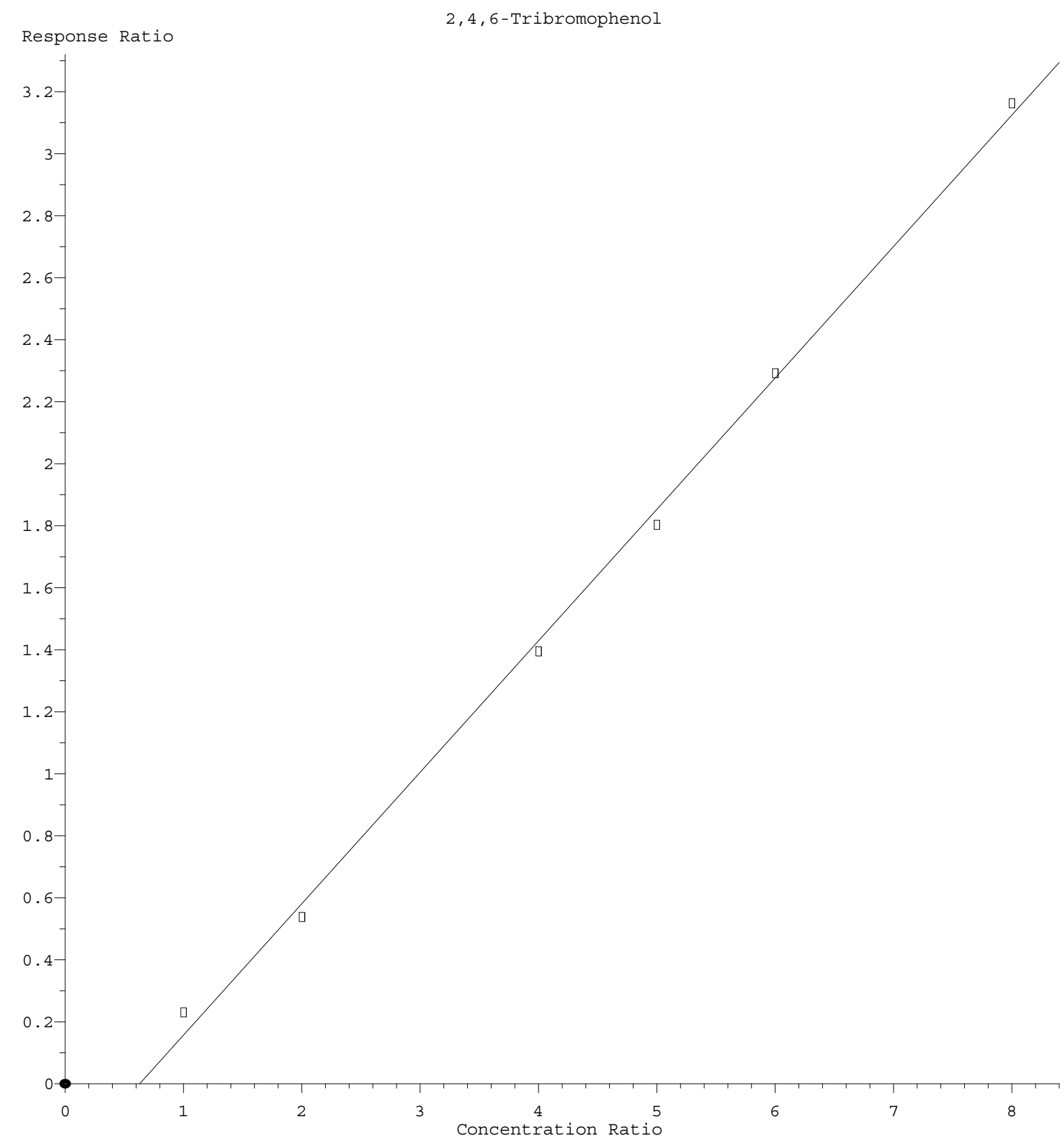
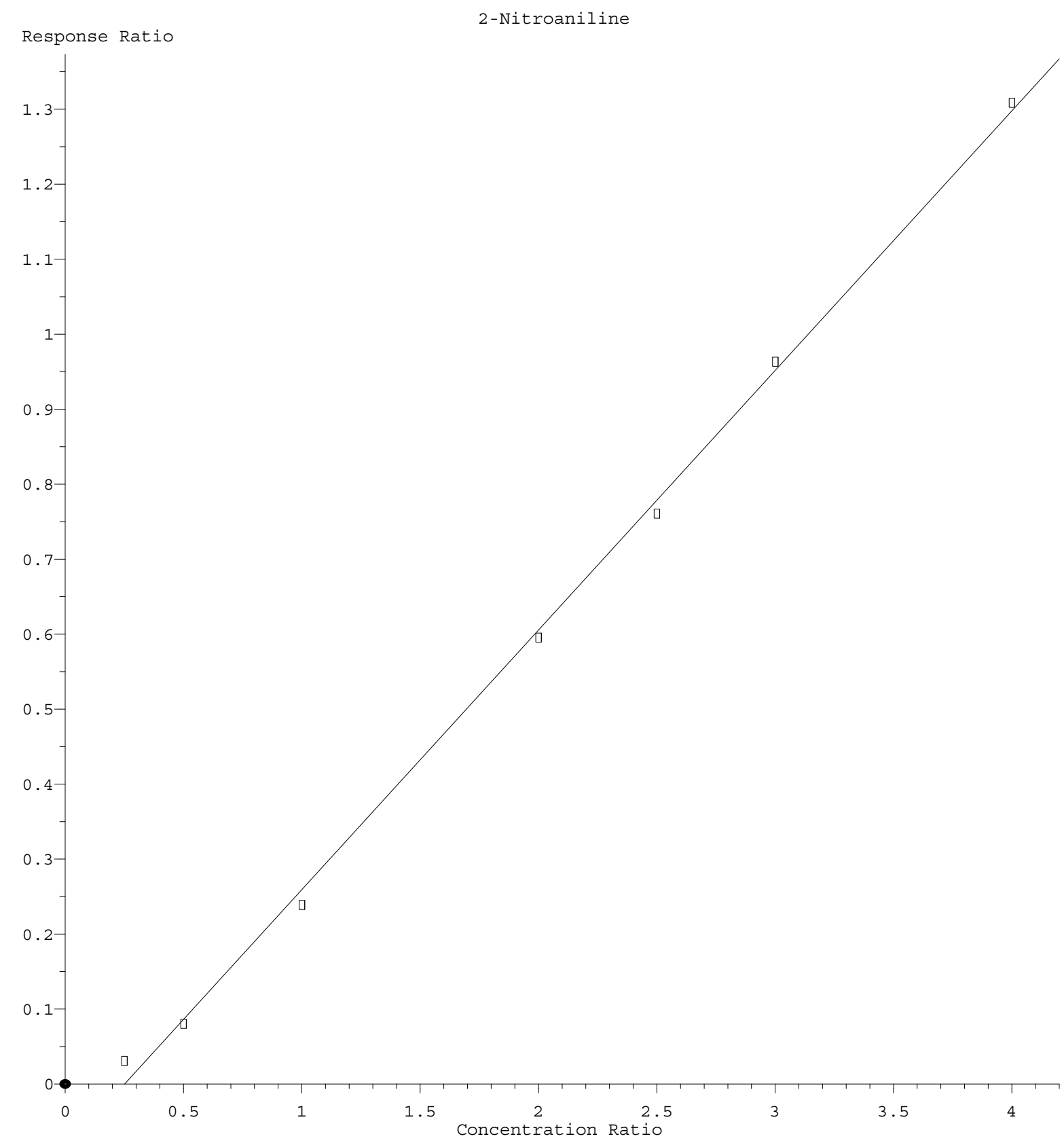
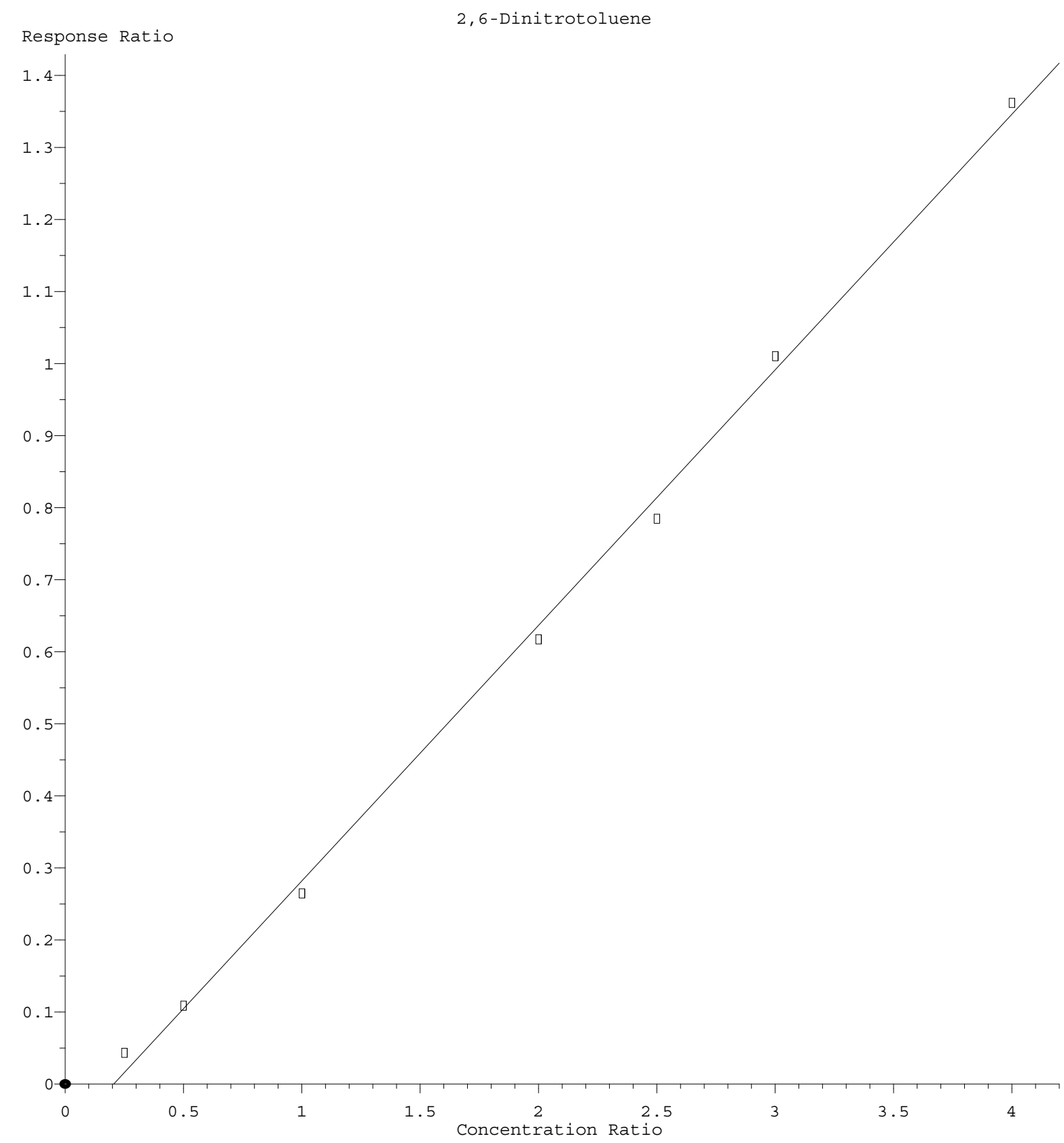
Calibration Table Last Updated: Sat May 13 02:16:09 2023



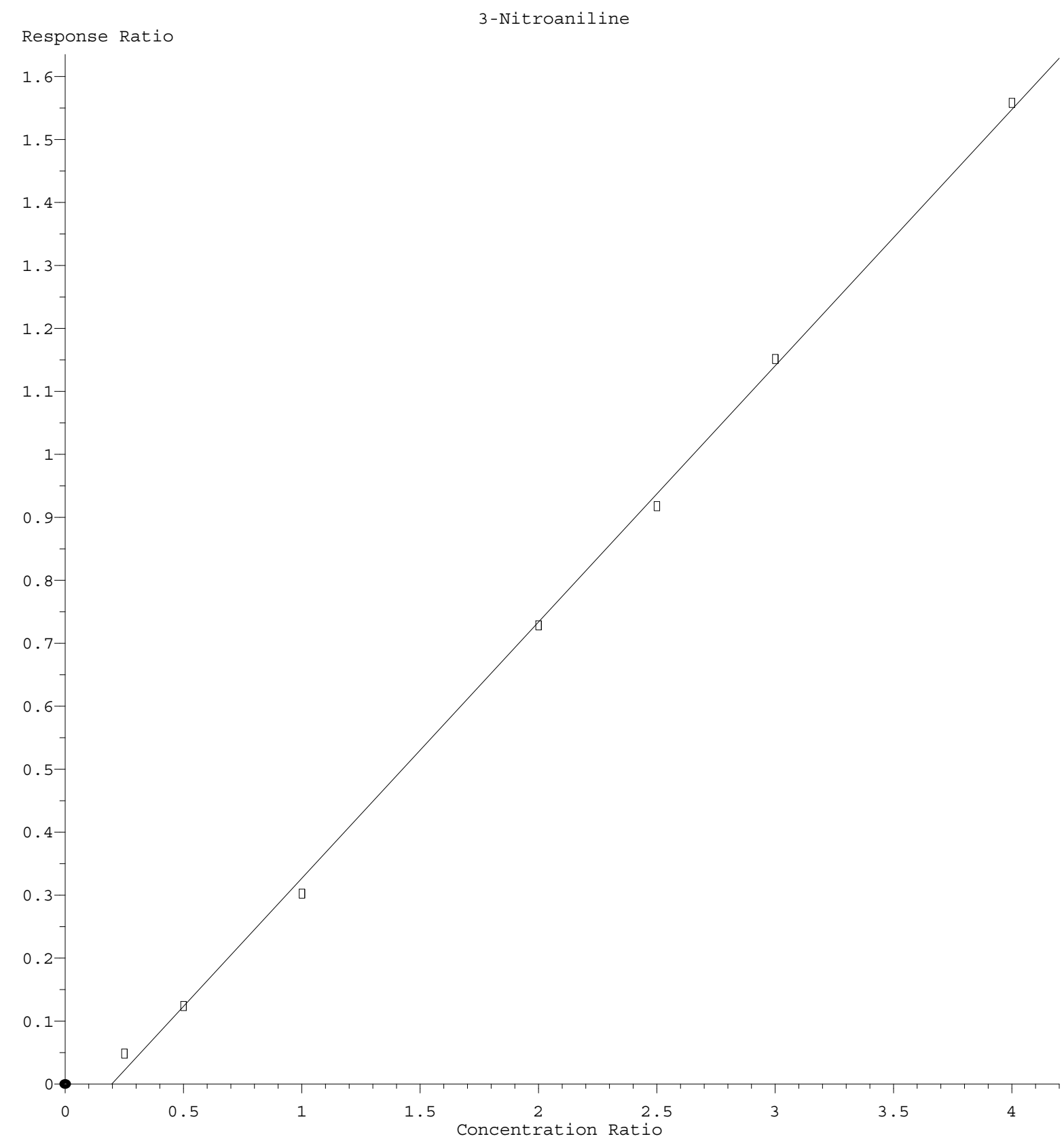
Response = 4.239e-001 * Amt - 2.669e-001
Coef of Det (r^2) = 0.997916 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023



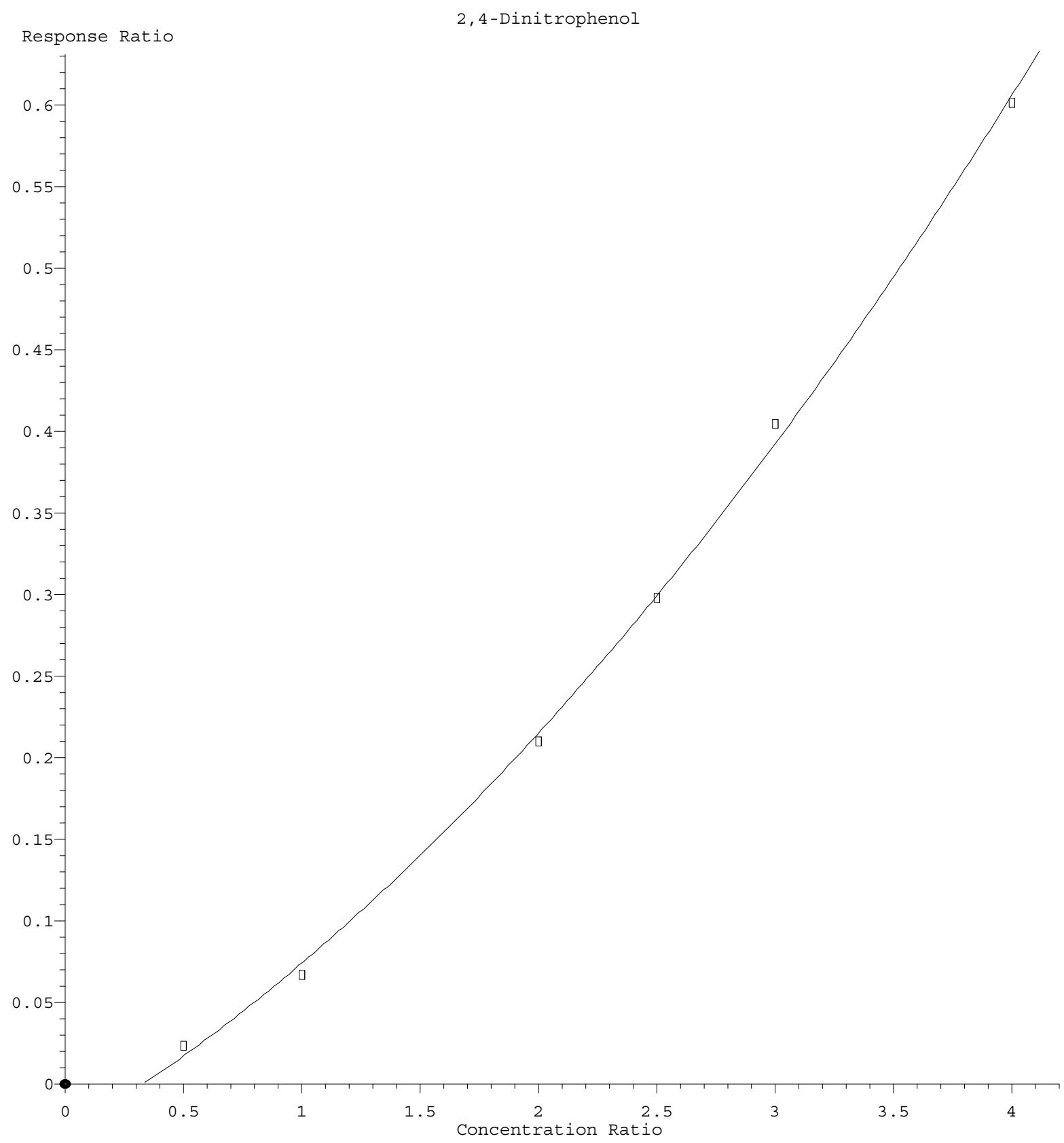
Response = 3.461e-001 * Amt - 8.682e-002
Coef of Det (r^2) = 0.998474 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023



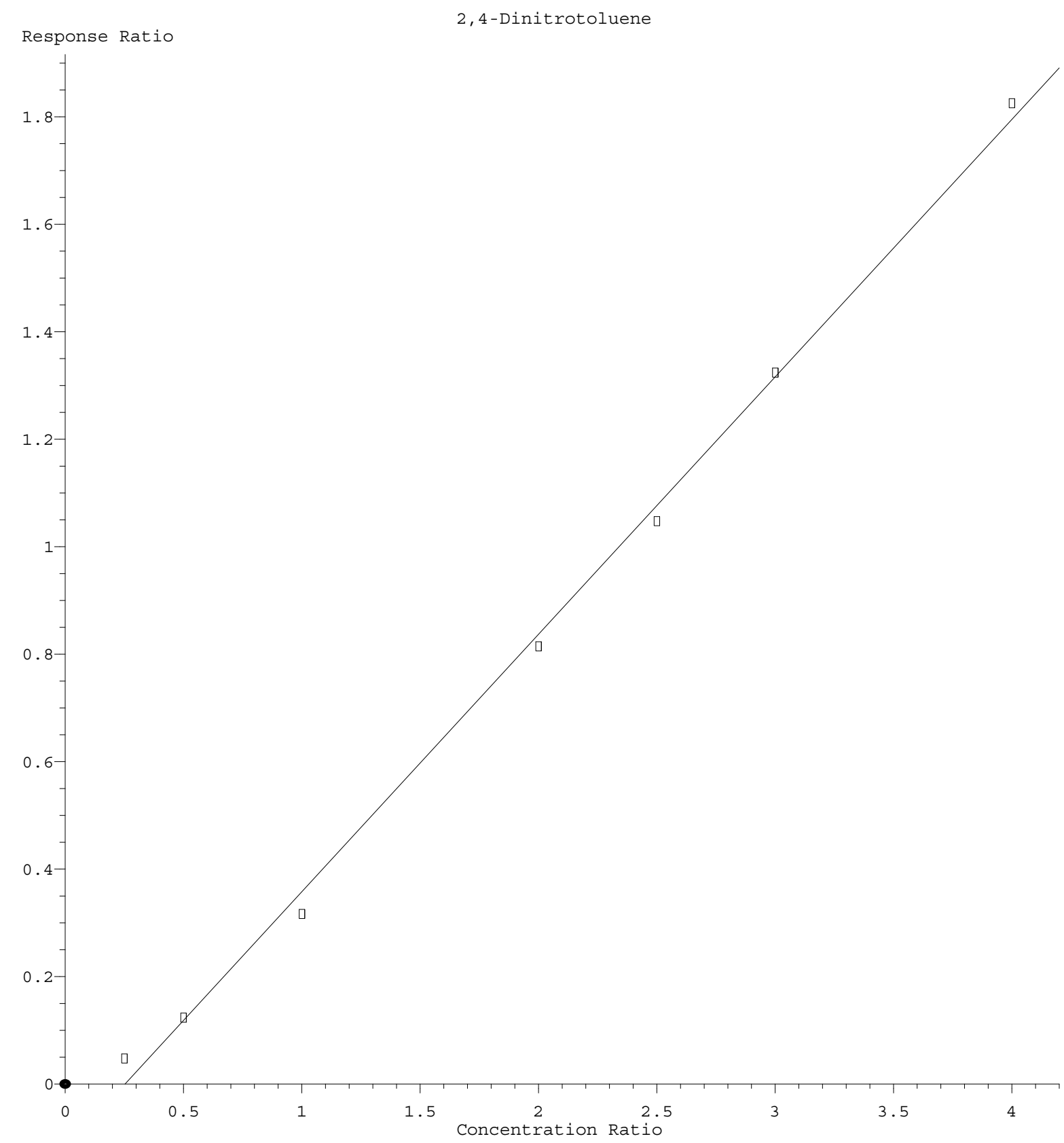
Response = 3.546e-001 * Amt - 7.262e-002
Coef of Det (r^2) = 0.997981 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023



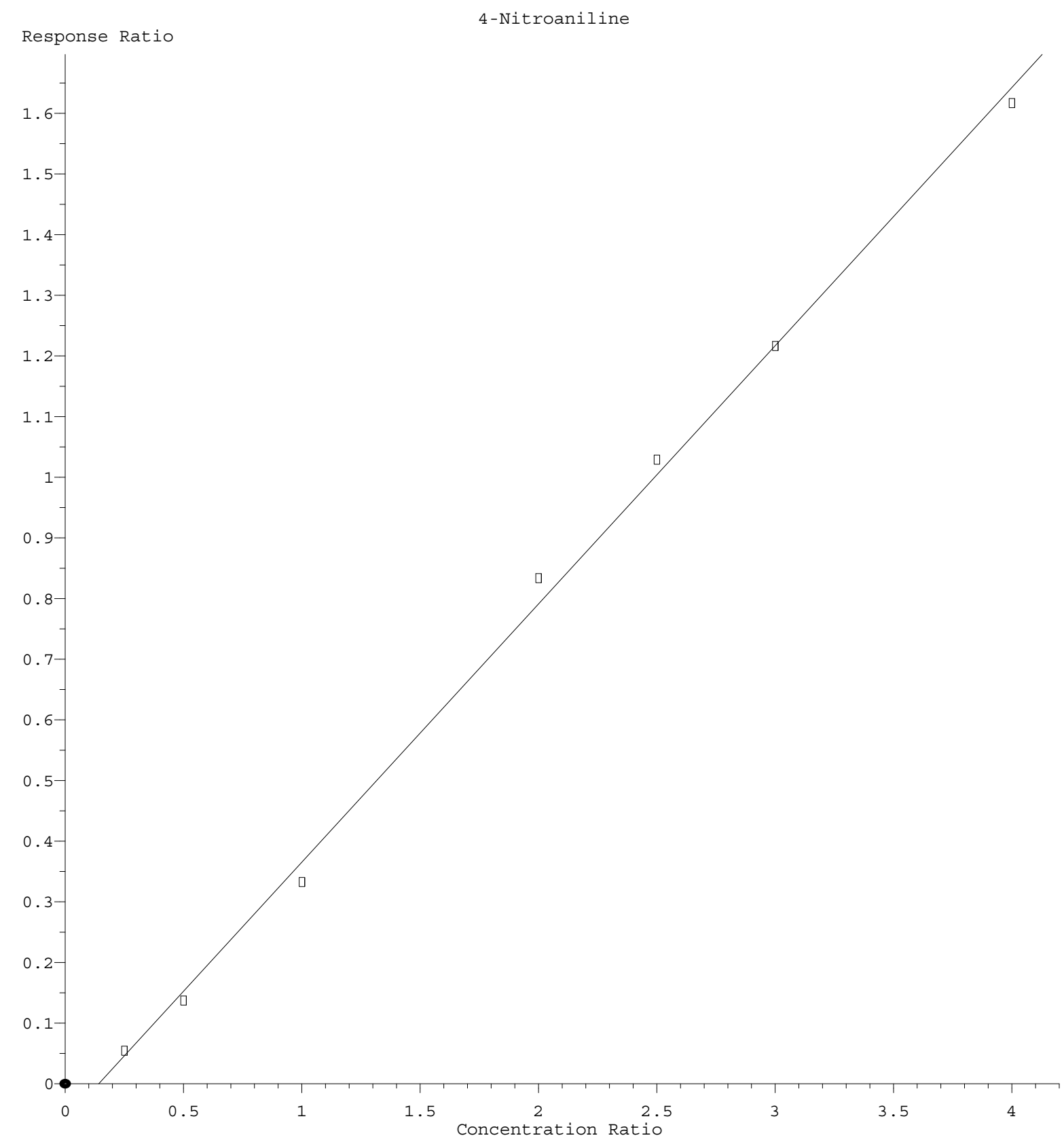
Response = 4.068e-001 * Amt - 8.011e-002
Coef of Det (r^2) = 0.998979 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023



R = 1.814e-002 A*A + 8.658e-002 A - 3.060e-002
Coef of Det (r^2) = 0.998774 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023

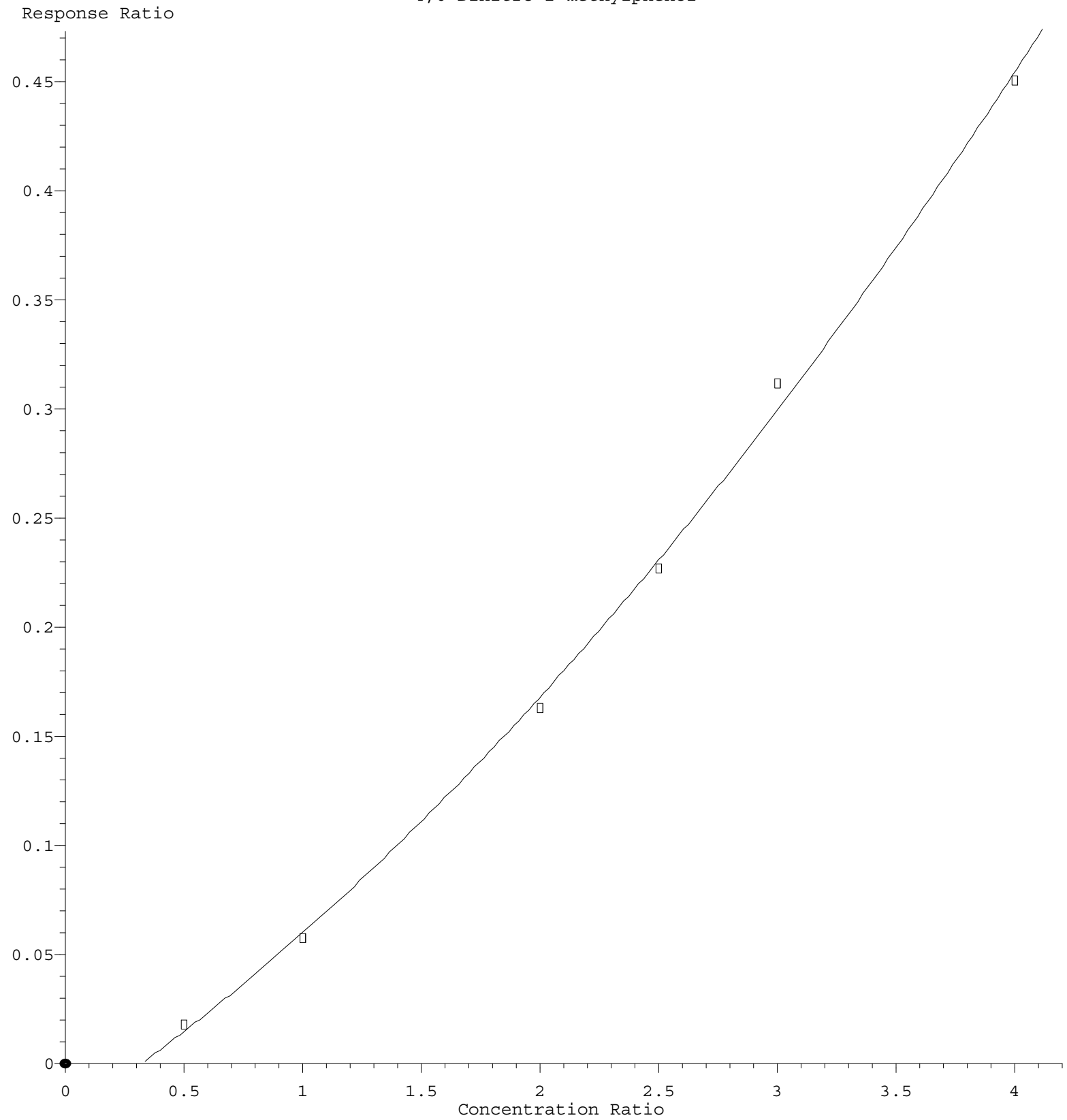


Response = 4.792e-001 * Amt - 1.215e-001
Coef of Det (r^2) = 0.997559 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023

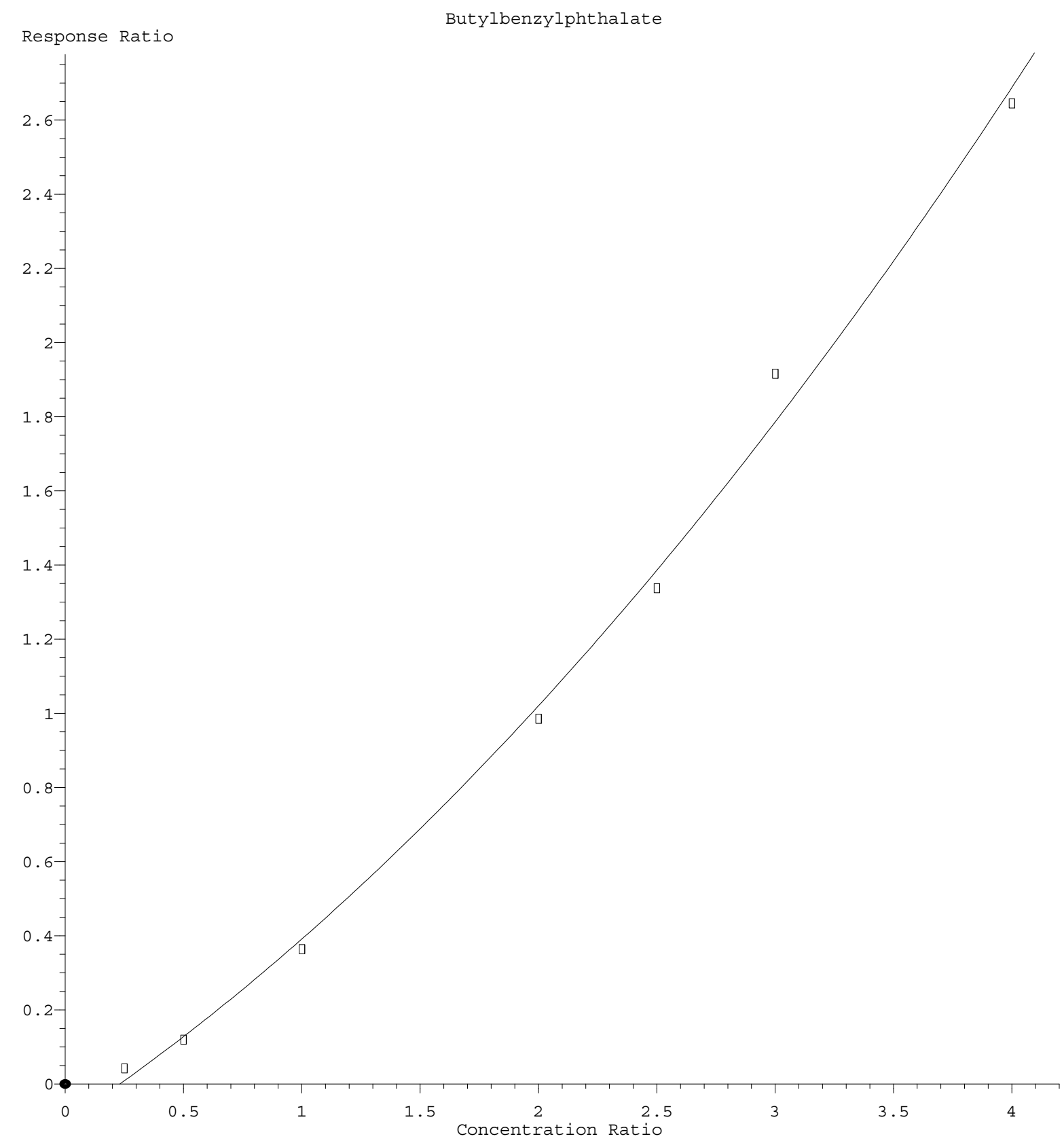


Response = 4.259e-001 * Amt - 6.045e-002
Coef of Det (r^2) = 0.997861 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023

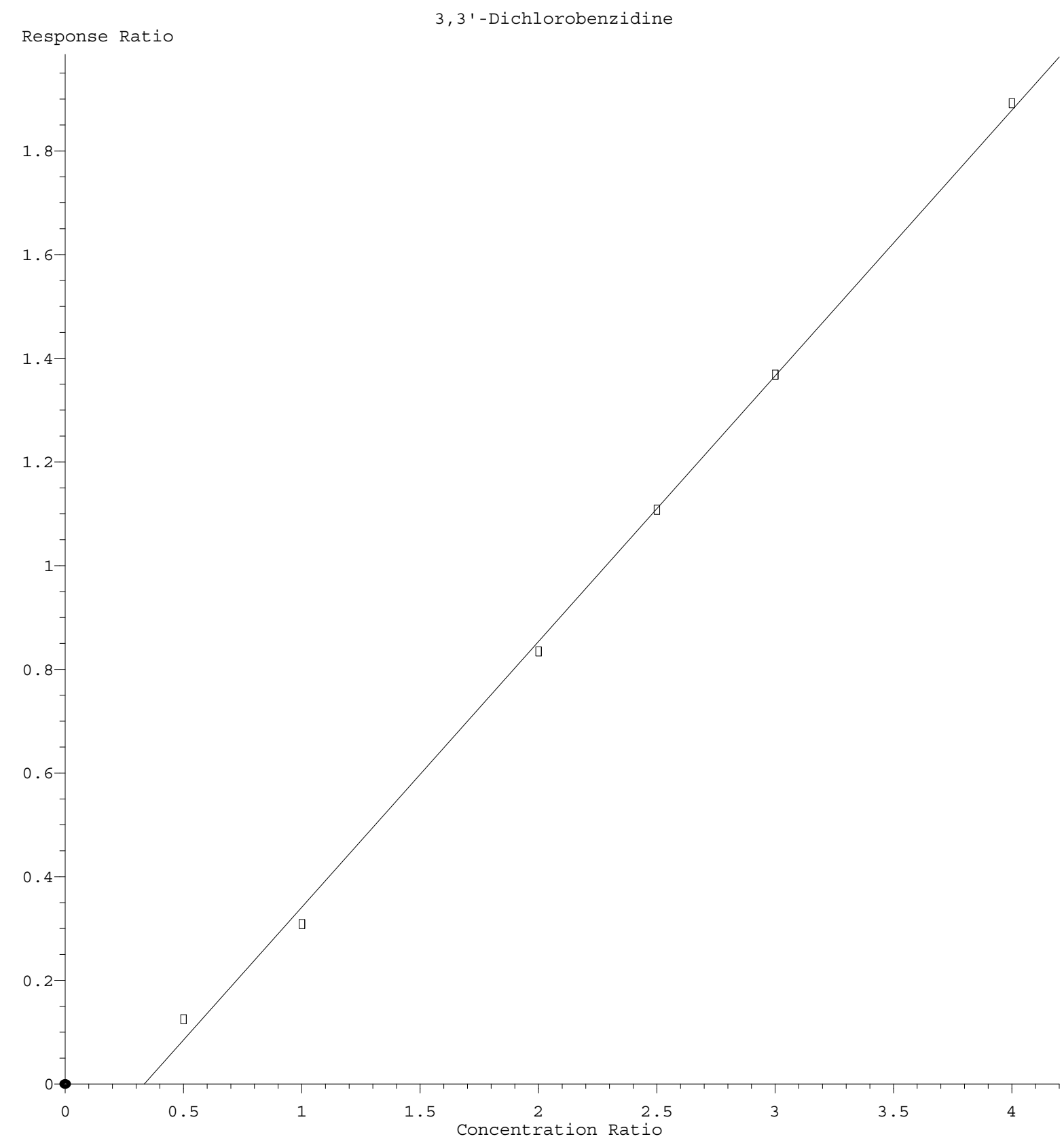
4,6-Dinitro-2-methylphenol



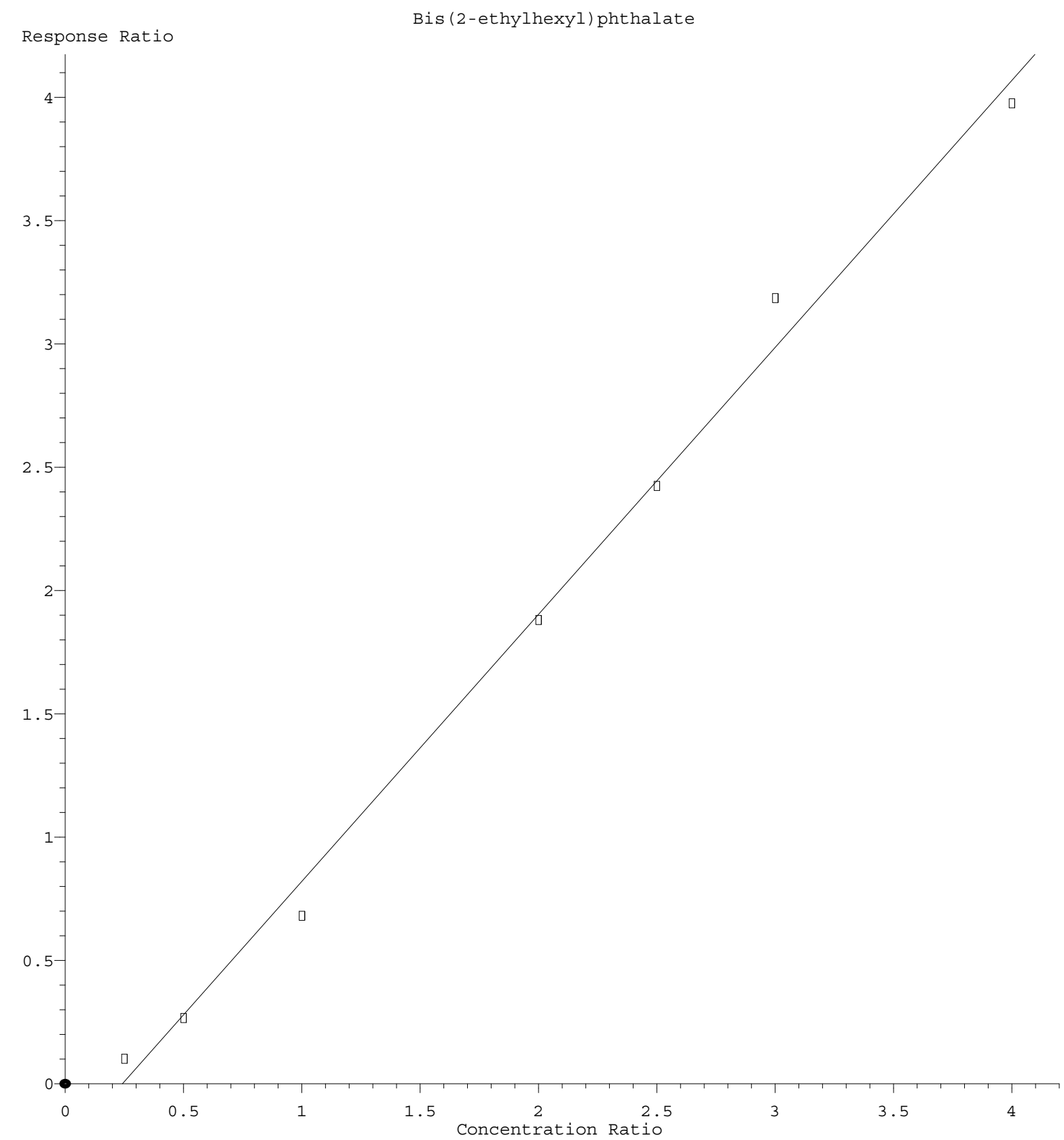
R = 1.174e-002 A*A + 7.282e-002 A - 2.462e-002
Coef of Det (r^2) = 0.998312 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023



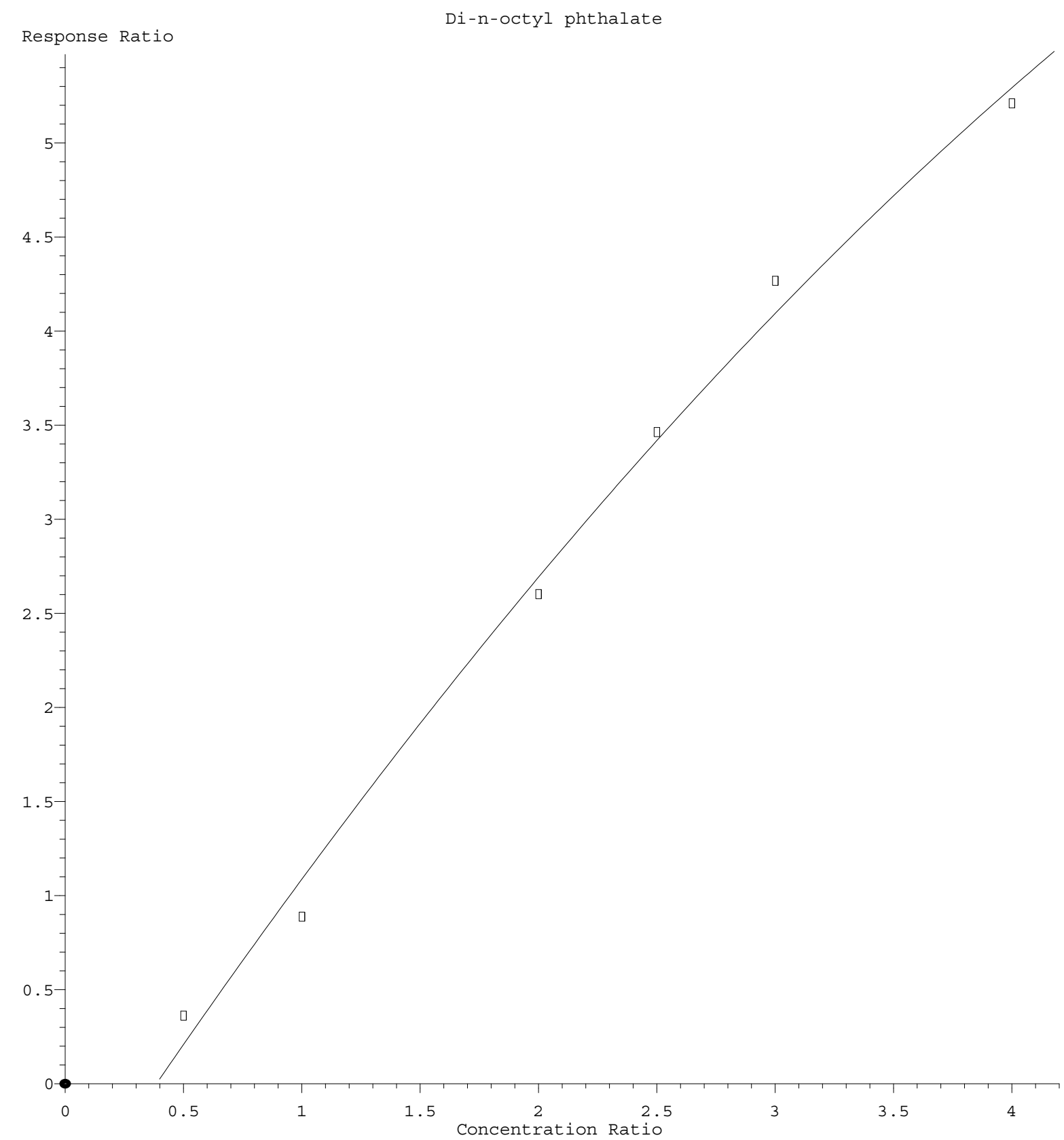
R = 6.826e-002 A*A + 4.243e-001 A - 1.014e-001
Coef of Det (r^2) = 0.995777 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023



Response = 5.125e-001 * Amt - 1.711e-001
Coef of Det (r^2) = 0.998533 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023



Response = 1.083e+000 * Amt - 2.616e-001
Coef of Det (r^2) = 0.994260 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023



R = -1.015e-001 A*A + 1.909e+000 A - 7.208e-001
Coef of Det (r^2) = 0.993899 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051223.M
Calibration Table Last Updated: Sat May 13 02:16:09 2023