Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM013024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 31 00:42:42 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BM043919.D 5 =BM043920.D 10 =BM043921.D 20 =BM043922.D 40 =BM043923.D 50 =BM043924.D 60 =BM043925.D 80 =BM0439
26.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.570	0.570	0.555	0.507	0.550	0.558	0.550	0.552	3.89
3)		Pyridine		1.496	1.493	1.489	1.397	1.519	1.551	1.522	1.495	3.23
4)		n-Nitrosodimet...		0.609	0.609	0.654	0.627	0.671	0.690	0.672	0.648	5.05
5)	S	2-Fluorophenol		1.245	1.318	1.355	1.274	1.370	1.412	1.388	1.338	4.59
6)		Aniline		1.616	1.659	1.692	1.631	1.738	1.793	1.745	1.696	3.84
7)	S	Phenol-d6		1.650	1.709	1.784	1.699	1.833	1.887	1.838	1.772	4.93
8)		2-Chlorophenol		1.321	1.383	1.412	1.328	1.425	1.455	1.427	1.393	3.70
9)		Benzaldehyde		1.234	1.143	1.066	0.880	0.902	0.864	0.803	0.984	16.54
10)	C	Phenol		1.697	1.720	1.769	1.675	1.780	1.822	1.785	1.750	3.05
11)		bis(2-Chloroet...		1.417	1.430	1.474	1.367	1.463	1.482	1.461	1.442	2.80
12)		1,3-Dichlorobe...		1.649	1.627	1.641	1.510	1.614	1.646	1.620	1.615	2.99
13)	C	1,4-Dichlorobe...		1.656	1.646	1.646	1.526	1.632	1.657	1.636	1.628	2.83
14)		1,2-Dichlorobe...		1.584	1.565	1.597	1.467	1.560	1.588	1.558	1.560	2.81
15)		Benzyl Alcohol		1.031	1.072	1.144	1.106	1.194	1.231	1.209	1.141	6.56
16)		2,2'-oxybis(1-...		1.994	1.992	2.028	1.876	2.003	2.033	1.995	1.989	2.64
17)		2-Methylphenol		0.997	1.078	1.125	1.075	1.146	1.172	1.151	1.106	5.47
18)		Hexachloroethane		0.606	0.597	0.622	0.577	0.618	0.626	0.628	0.611	3.06
19)	P	n-Nitroso-di-n...	1.013	1.049	1.115	1.167	1.099	1.174	1.190	1.150	1.119	5.64
20)		3+4-Methylphenols		1.344	1.436	1.529	1.463	1.575	1.620	1.590	1.508	6.54
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.514	0.522	0.531	0.505	0.530	0.546	0.541	0.527	2.78
23)	S	Nitrobenzene-d5		0.369	0.381	0.400	0.388	0.413	0.423	0.424	0.400	5.37
24)		Nitrobenzene		0.391	0.390	0.405	0.389	0.410	0.421	0.421	0.404	3.50
25)		Isophorone		0.644	0.688	0.728	0.710	0.753	0.775	0.788	0.727	6.97
26)	C	2-Nitrophenol		0.082	0.096	0.119	0.135	0.153			0.117	24.43
27)		2,4-Dimethylph...		0.190	0.204	0.218	0.215	0.229	0.238	0.240	0.219	8.19
28)		bis(2-Chloroet...		0.436	0.449	0.463	0.440	0.469	0.479	0.485	0.460	4.13
29)	C	2,4-Dichloroph...		0.224	0.254	0.279	0.278	0.300	0.313	0.319	0.281	11.96
30)		1,2,4-Trichlor...		0.341	0.341	0.344	0.325	0.348	0.358	0.361	0.345	3.39
31)		Naphthalene		1.106	1.093	1.113	1.045	1.109	1.142	1.144	1.108	3.00
32)		Benzoic acid			0.088	0.123	0.145	0.178	0.191	0.214	0.156	29.88
33)		4-Chloroaniline		0.382	0.397	0.416	0.403	0.425	0.441	0.440	0.415	5.34
34)	C	Hexachlorobuta...		0.200	0.196	0.199	0.189	0.201	0.205	0.210	0.200	3.36
35)		Caprolactam		0.059	0.072	0.085	0.091	0.099	0.104	0.107	0.088	19.89
36)	C	4-Chloro-3-met...		0.251	0.279	0.307	0.307	0.327	0.342	0.345	0.308	11.14
37)		2-Methylnaphth...		0.719	0.723	0.741	0.709	0.750	0.779	0.784	0.744	3.94
38)		1-Methylnaphth...		0.705	0.716	0.731	0.702	0.744	0.764	0.772	0.733	3.80

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Method File : 8270-BM013024.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.603	0.603	0.619	0.588	0.621	0.647	0.646	0.618	3.60
41)	P	Hexachlorocycl...	0.170	0.180	0.197	0.203	0.223	0.234	0.248	0.208	13.76
42)	S	2,4,6-Tribromo...	0.161	0.197	0.221	0.226	0.247	0.259	0.264	0.225	16.36
43)	C	2,4,6-Trichlor...	0.262	0.305	0.359	0.371	0.396	0.423	0.422	0.362	16.62
44)		2,4,5-Trichlor...	0.326	0.378	0.419	0.416	0.442	0.474	0.474	0.419	12.68
45)	S	2-Fluorobiphenyl	1.508	1.513	1.557	1.492	1.567	1.616	1.582	1.548	2.91
46)		1,1'-Biphenyl	1.593	1.609	1.631	1.560	1.648	1.707	1.692	1.634	3.23
47)		2-Chloronaphth...	1.268	1.273	1.305	1.241	1.300	1.345	1.324	1.294	2.73
48)		2-Nitroaniline	0.238	0.264	0.325	0.343	0.371	0.395	0.399	0.333	18.80
49)		Acenaphthylene	1.766	1.831	1.905	1.834	1.930	2.004	1.974	1.892	4.52
50)		Dimethylphthalate	1.402	1.436	1.479	1.418	1.499	1.558	1.554	1.478	4.25
51)		2,6-Dinitrotol...	0.237	0.269	0.304	0.306	0.327	0.343	0.345	0.304	13.09
52)	C	Acenaphthene	1.145	1.162	1.211	1.152	1.221	1.260	1.252	1.200	3.97
53)		3-Nitroaniline	0.242	0.286	0.330	0.332	0.355	0.372	0.376	0.327	14.87
54)	P	2,4-Dinitrophenol		0.059	0.077	0.095	0.113	0.133	0.149	0.104	32.49
55)		Dibenzofuran	1.816	1.834	1.858	1.742	1.834	1.915	1.886	1.841	3.00
56)	P	4-Nitrophenol		0.204	0.253	0.269	0.292	0.310	0.313	0.273	15.04
57)		2,4-Dinitrotol...	0.258	0.317	0.389	0.403	0.438	0.465	0.469	0.391	20.10
58)		Fluorene	1.468	1.488	1.540	1.477	1.557	1.619	1.588	1.534	3.80
59)		2,3,4,6-Tetrac...	0.242	0.293	0.333	0.334	0.354	0.375	0.380	0.330	14.78
60)		Diethylphthalate	1.377	1.468	1.531	1.474	1.565	1.632	1.636	1.526	6.17
61)		4-Chlorophenyl...	0.722	0.746	0.748	0.713	0.751	0.781	0.778	0.748	3.40
62)		4-Nitroaniline	0.251	0.296	0.348	0.351	0.377	0.398	0.396	0.345	15.70
63)		Azobenzene	1.476	1.539	1.603	1.528	1.608	1.651	1.634	1.577	4.04
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.045	0.060	0.074	0.087	0.098	0.109	0.079	30.70
66)	c	n-Nitrosodiphe...	0.562	0.586	0.619	0.605	0.638	0.656	0.659	0.618	5.84
67)		4-Bromophenyl-...	0.203	0.209	0.214	0.210	0.223	0.231	0.236	0.218	5.60
68)		Hexachlorobenzene	0.249	0.251	0.253	0.243	0.257	0.264	0.267	0.255	3.25
69)		Atrazine	0.147	0.161	0.173	0.171	0.172	0.174	0.165	0.166	5.76
70)	C	Pentachlorophenol		0.105	0.134	0.145	0.159	0.167	0.173	0.147	17.10
71)		Phenanthrene	1.073	1.079	1.101	1.062	1.125	1.146	1.147	1.105	3.20
72)		Anthracene	0.994	1.032	1.072	1.064	1.117	1.149	1.147	1.082	5.42
73)		Carbazole	0.955	1.008	1.053	1.027	1.083	1.117	1.114	1.051	5.64
74)		Di-n-butylphth...	0.937	1.079	1.220	1.244	1.348	1.410	1.429	1.238	14.54
75)	C	Fluoranthene	1.164	1.213	1.268	1.244	1.323	1.373	1.367	1.279	6.17
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.108	0.155	0.289	0.317	0.335	0.493	0.283	48.69
78)		Pyrene	1.312	1.371	1.443	1.406	1.492	1.524	1.536	1.441	5.76
79)	S	Terphenyl-d14	1.138	1.162	1.228	1.177	1.244	1.204	1.057	1.173	5.38
80)		Butylbenzylpht...	0.286	0.360	0.471	0.527	0.596	0.632	0.661	0.505	27.96
81)		Benzo(a)anthra...	1.339	1.349	1.413	1.365	1.434	1.477	1.439	1.402	3.73
82)		3,3'-Dichlorob...	0.303	0.347	0.400	0.428	0.459	0.479	0.494	0.416	16.93
83)		Chrysene	1.298	1.306	1.335	1.280	1.353	1.395	1.359	1.332	3.03
84)		Bis(2-ethylhex...	0.544	0.674	0.838	0.886	0.979	1.039	1.044	0.858	22.09
85)	c	Di-n-octyl pht...		0.960	1.255	1.412	1.566	1.693	1.723	1.435	20.32

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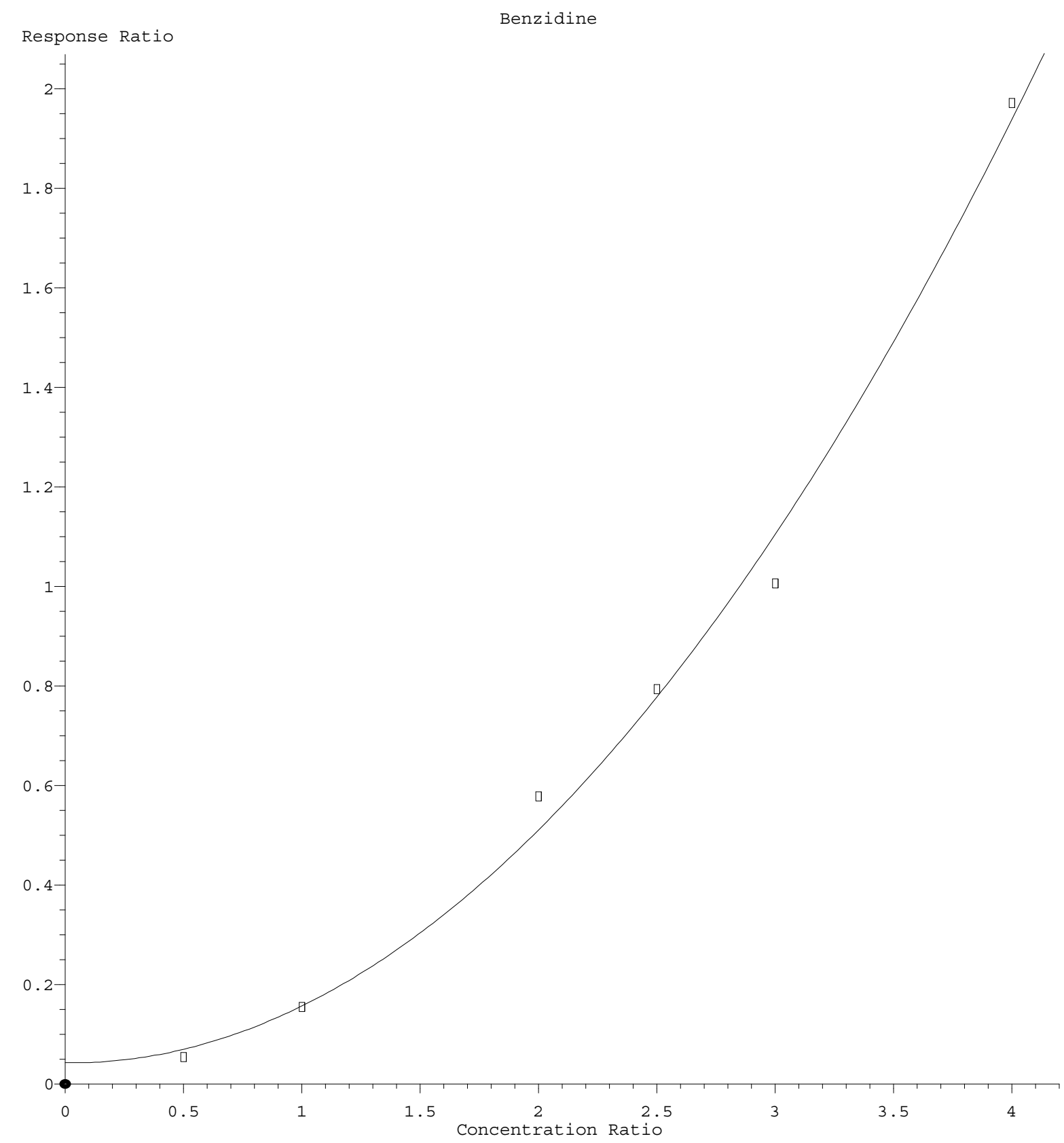
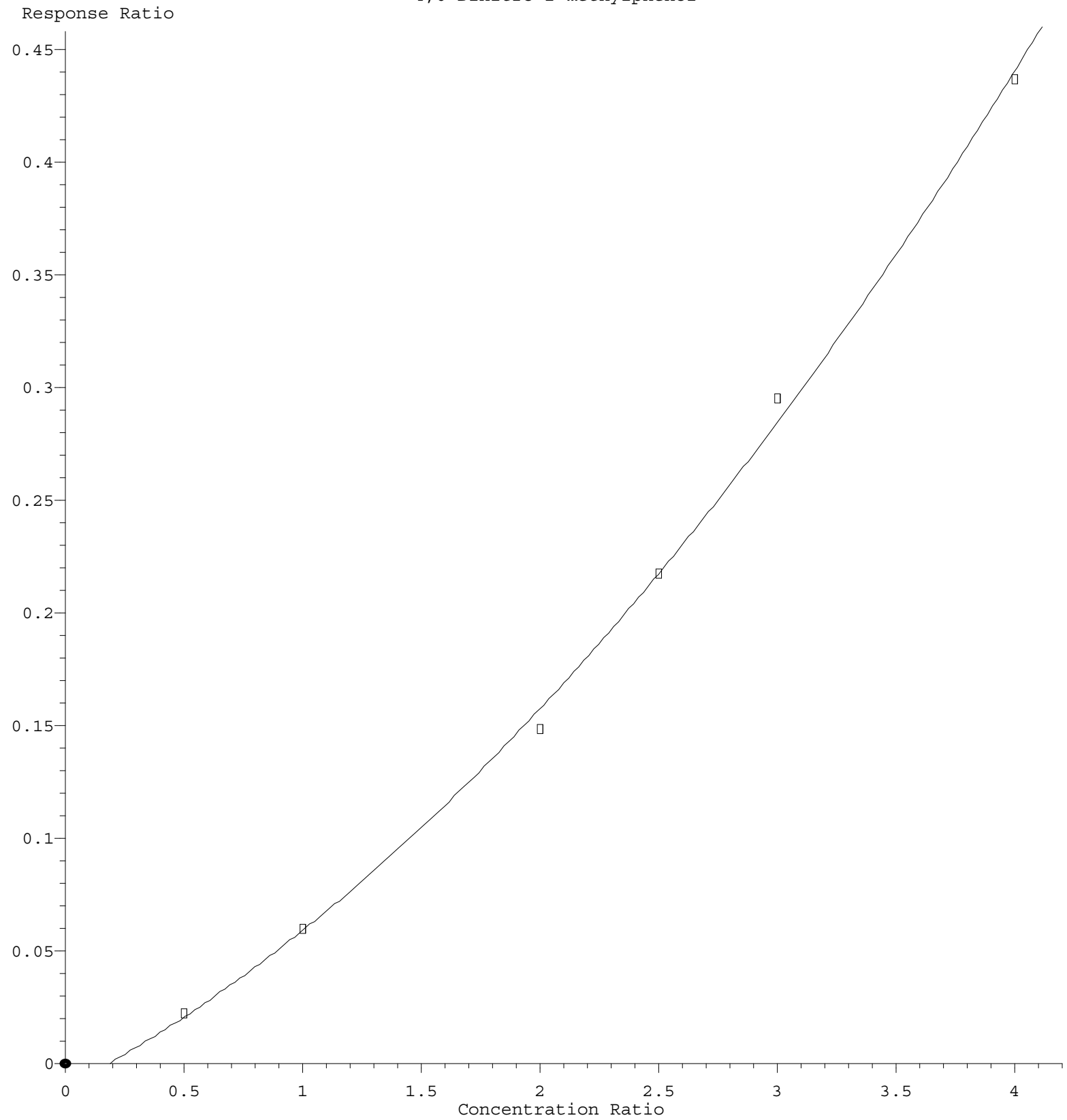
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.284	1.345	1.447	1.436	1.521	1.577	1.572	1.454	7.67
88)		Benzo(b)fluora...	1.144	1.219	1.258	1.256	1.338	1.385	1.372	1.282	6.84
89)		Benzo(k)fluora...	1.166	1.160	1.249	1.193	1.258	1.346	1.343	1.245	6.24
90)	C	Benzo(a)pyrene	0.959	1.007	1.079	1.086	1.151	1.203	1.214	1.100	8.74
91)		Dibenzo(a,h)an...	1.083	1.133	1.197	1.194	1.256	1.309	1.303	1.211	6.99
92)		Benzo(g,h,i)pe...	1.082	1.157	1.199	1.193	1.245	1.294	1.294	1.209	6.32

(#) = Out of Range



R = 1.200e-001 A*A - 5.851e-003 A + 4.262e-002
Coef of Det (r^2) = 0.993471 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM013024.M
Calibration Table Last Updated: Wed Jan 31 00:42:42 2024

4,6-Dinitro-2-methylphenol



R = 1.437e-002 A*A + 5.529e-002 A - 1.056e-002
Coef of Det (r^2) = 0.998243 Curve Fit: Quadratic
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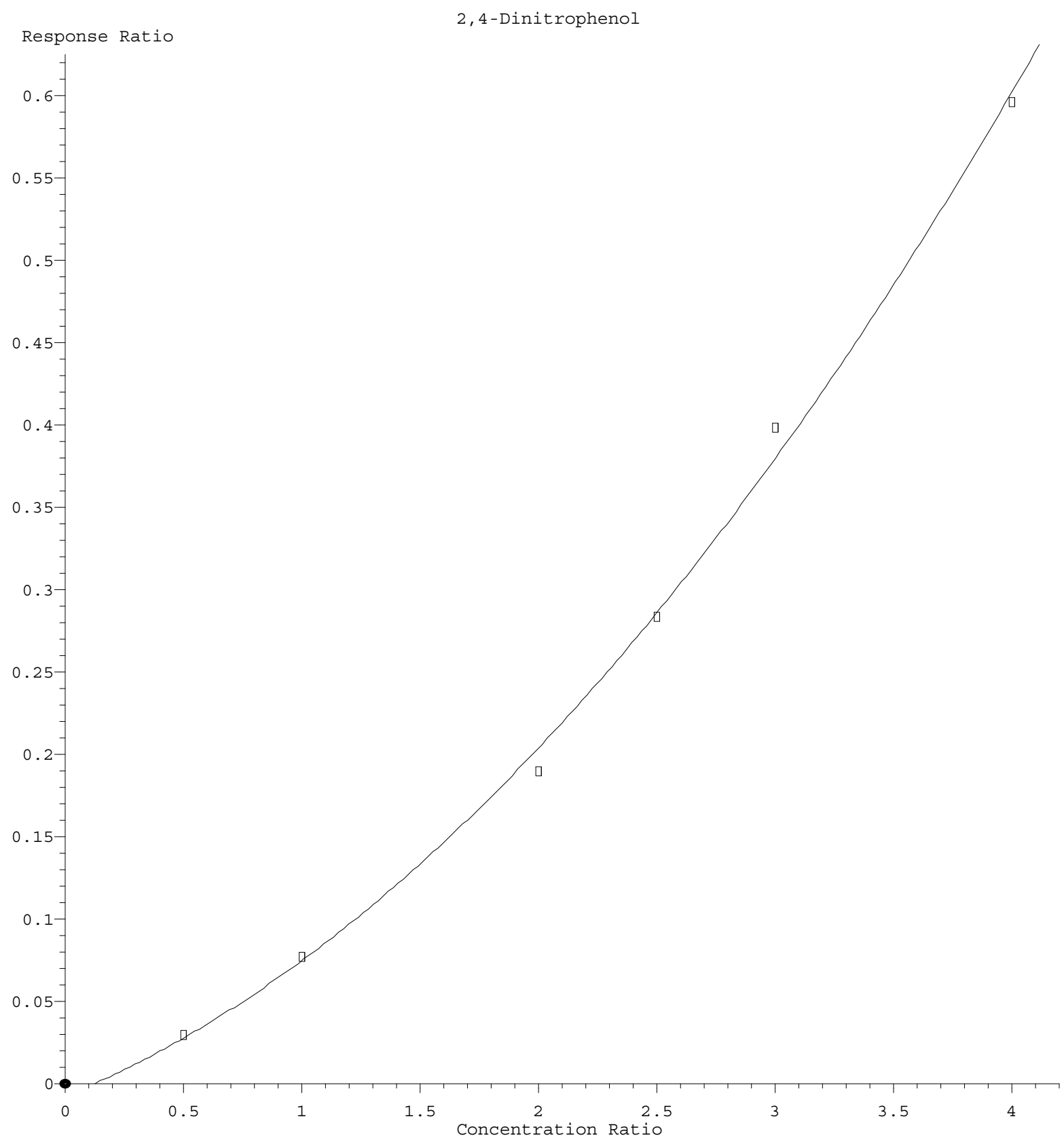

R = 2.333e-002 A*A + 5.913e-002 A - 7.679e-003
Coef of Det (r^2) = 0.997317 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM013024.M
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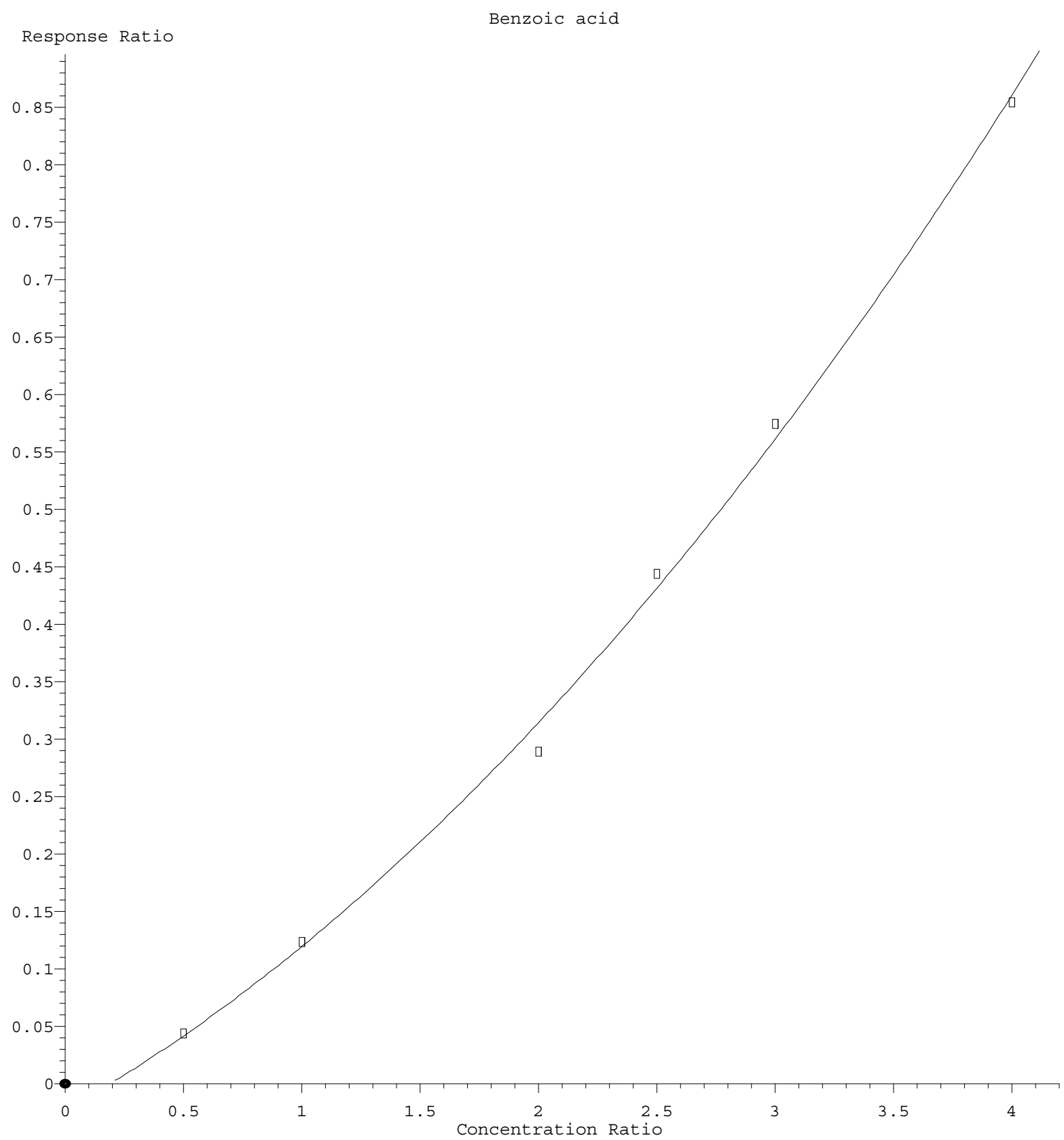

R = 2.607e-002 A*A + 1.166e-001 A - 2.311e-002
Coef of Det (r^2) = 0.997743 Curve Fit: Quadratic
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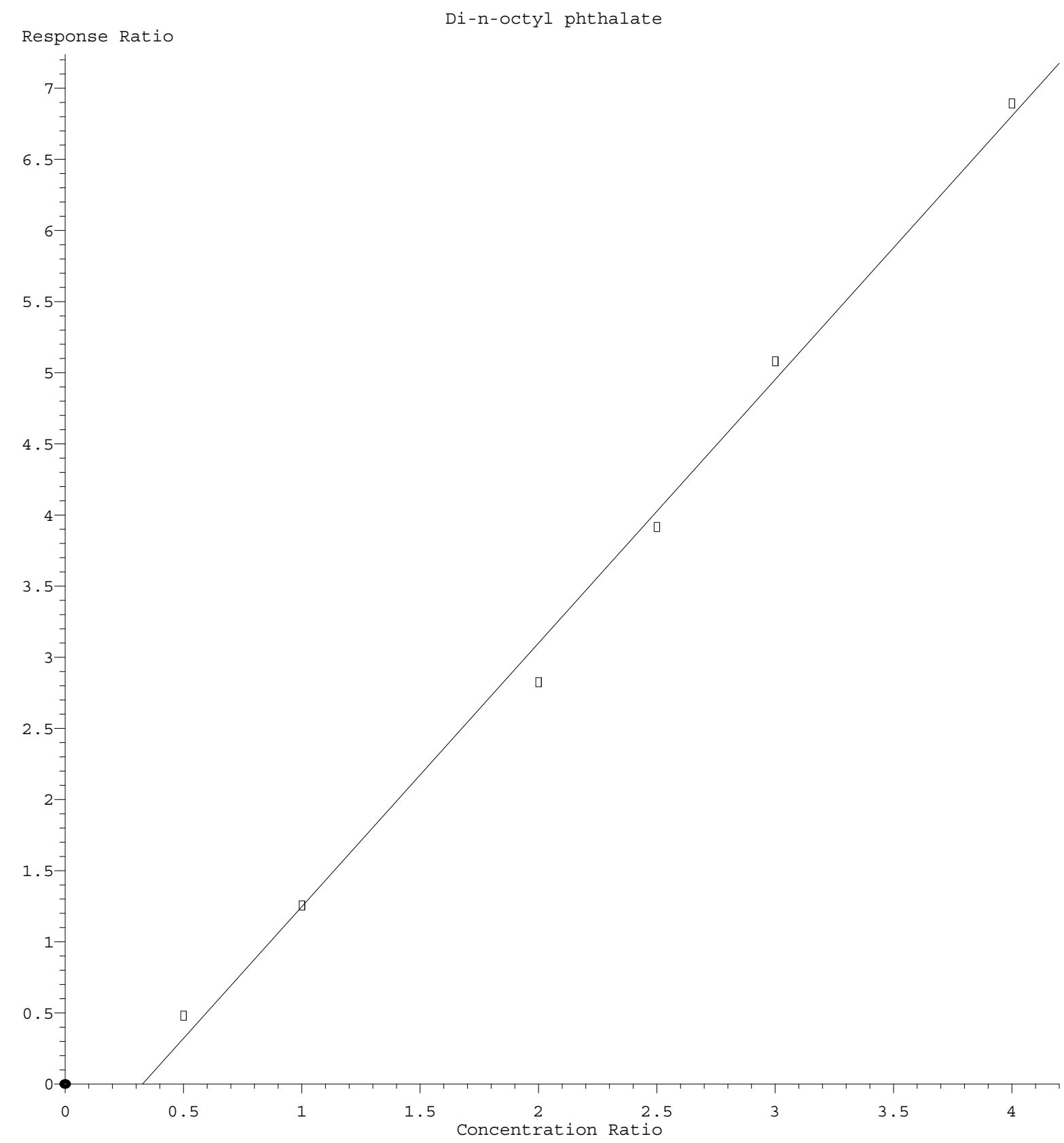

Response = 1.853e+000 * Amt - 6.065e-001
Coef of Det (r^2) = 0.995217 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM013024.M
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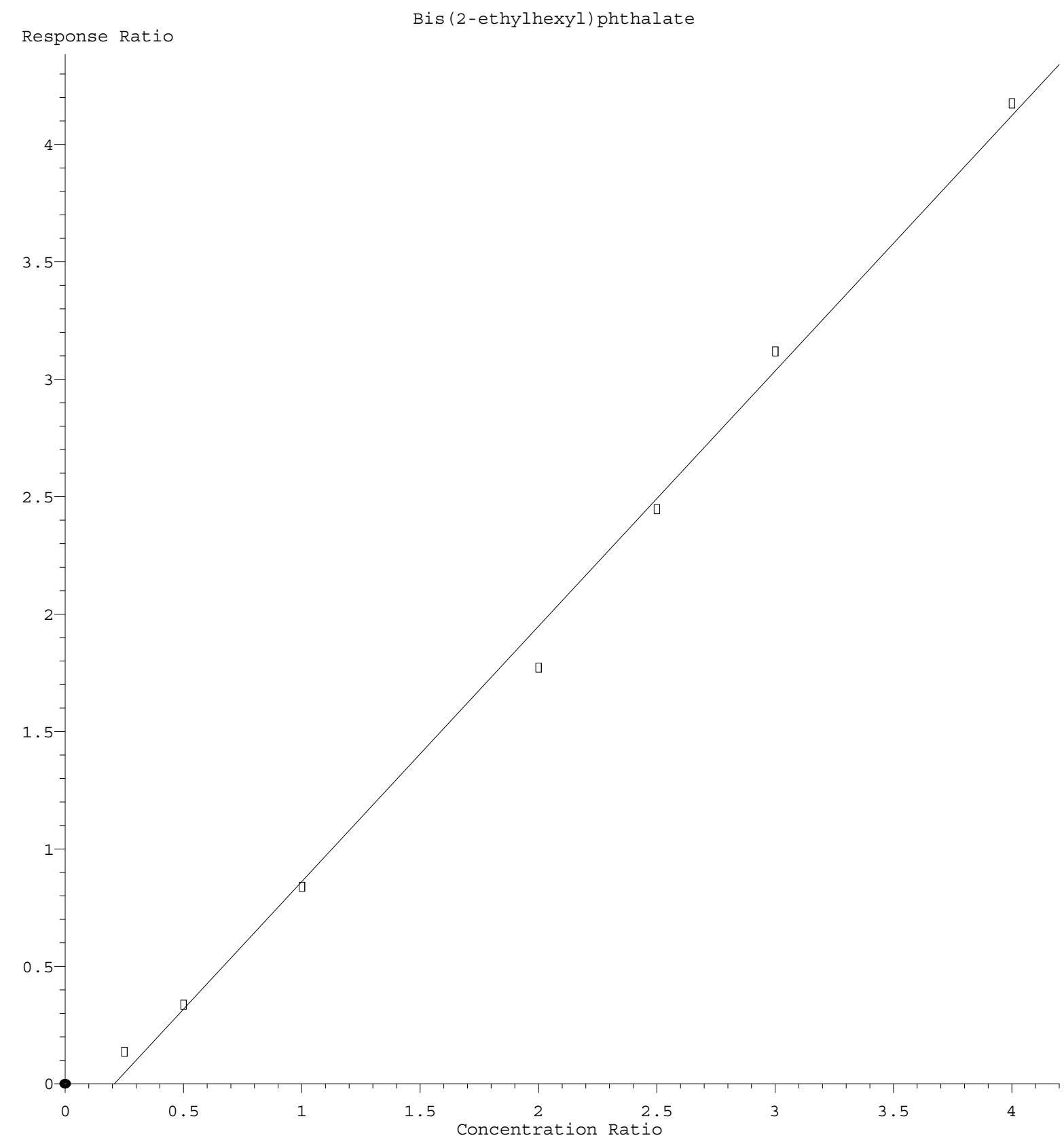

Response = 1.087e+000 * Amt - 2.260e-001
Coef of Det (r^2) = 0.996192 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM013024.M
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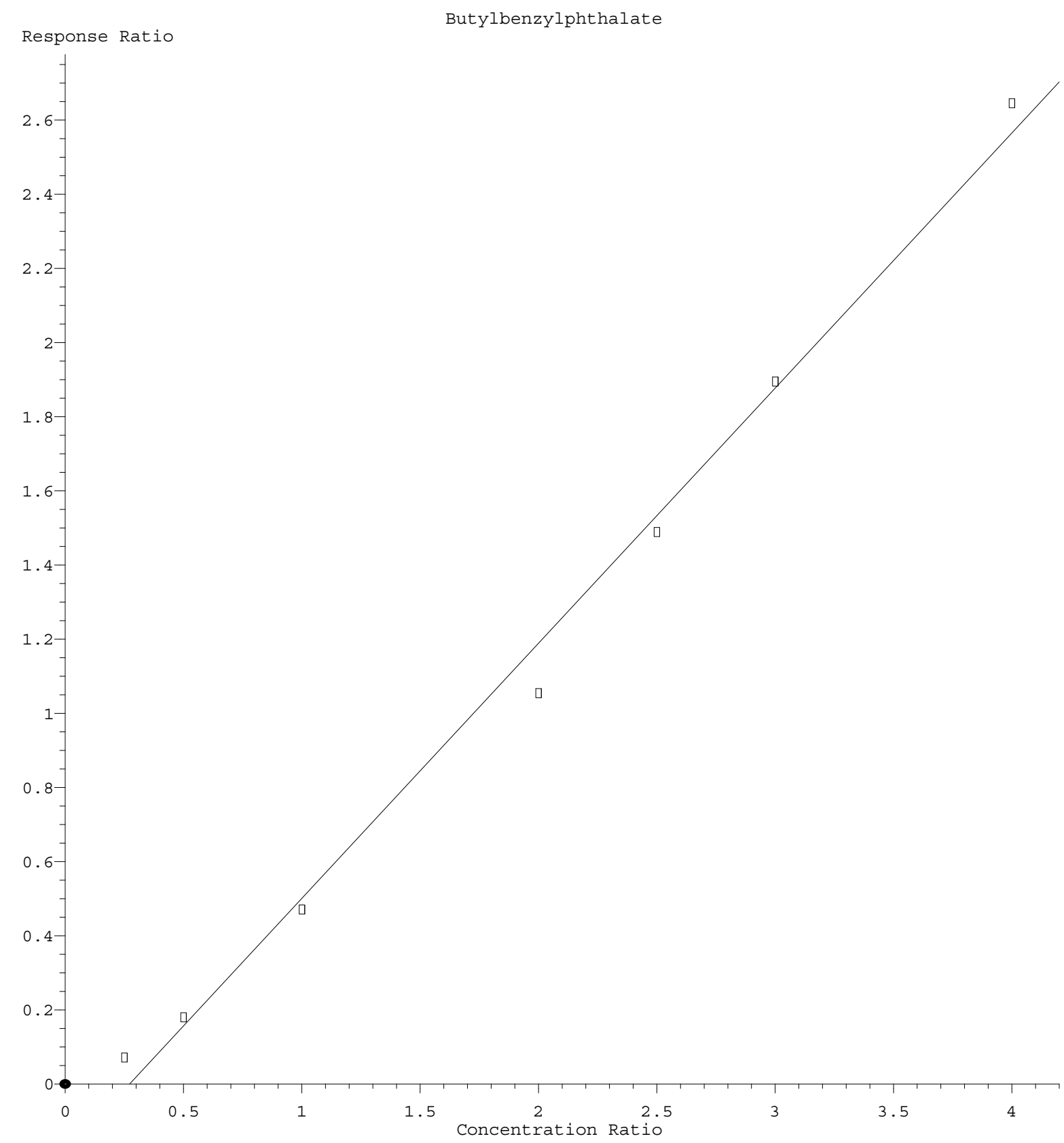

Response = 6.881e-001 * Amt - 1.874e-001
Coef of Det (r^2) = 0.993457 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM013024.M
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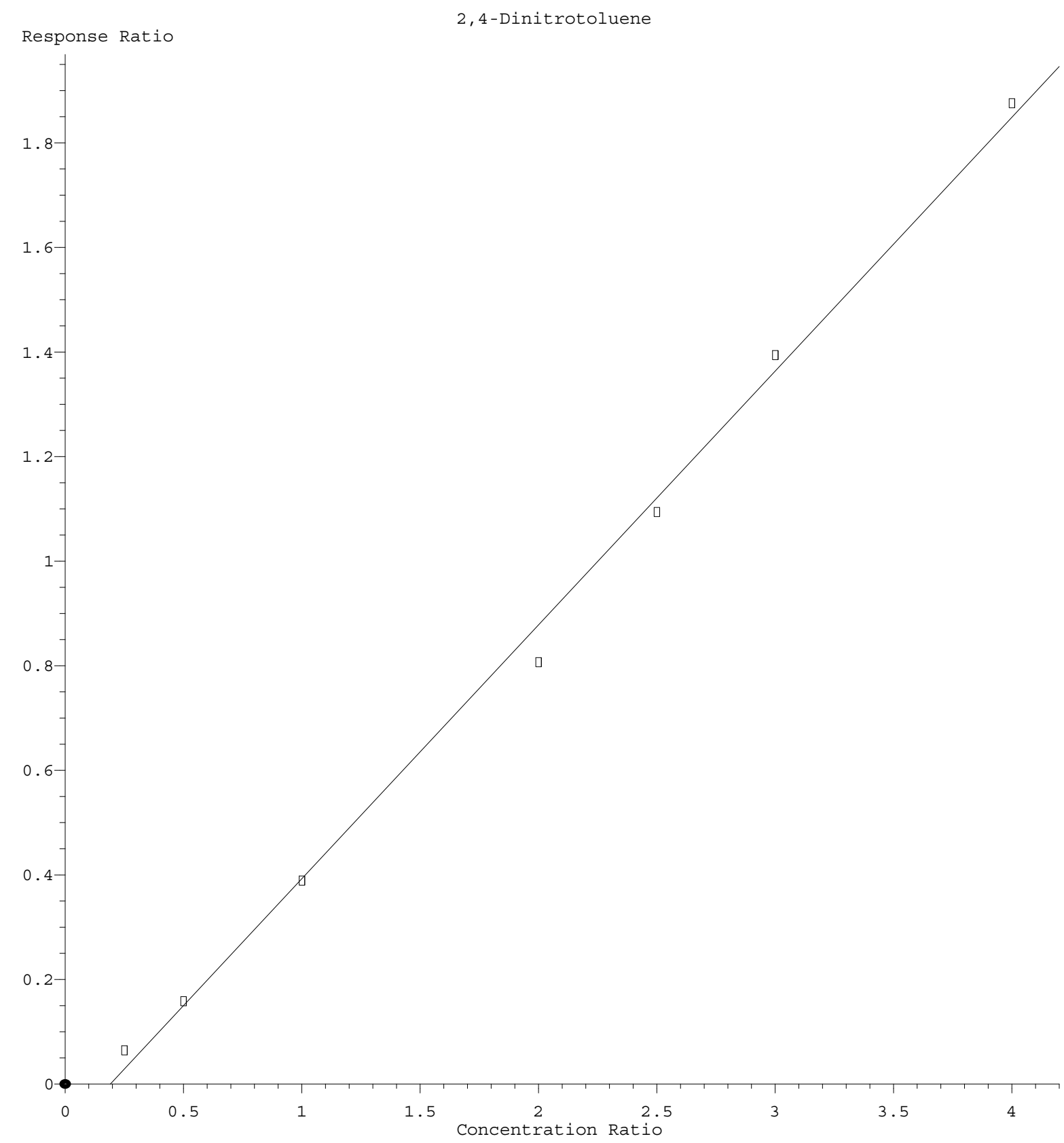

Response = 4.853e-001 * Amt - 9.263e-002
Coef of Det (r^2) = 0.996748 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM013024.M
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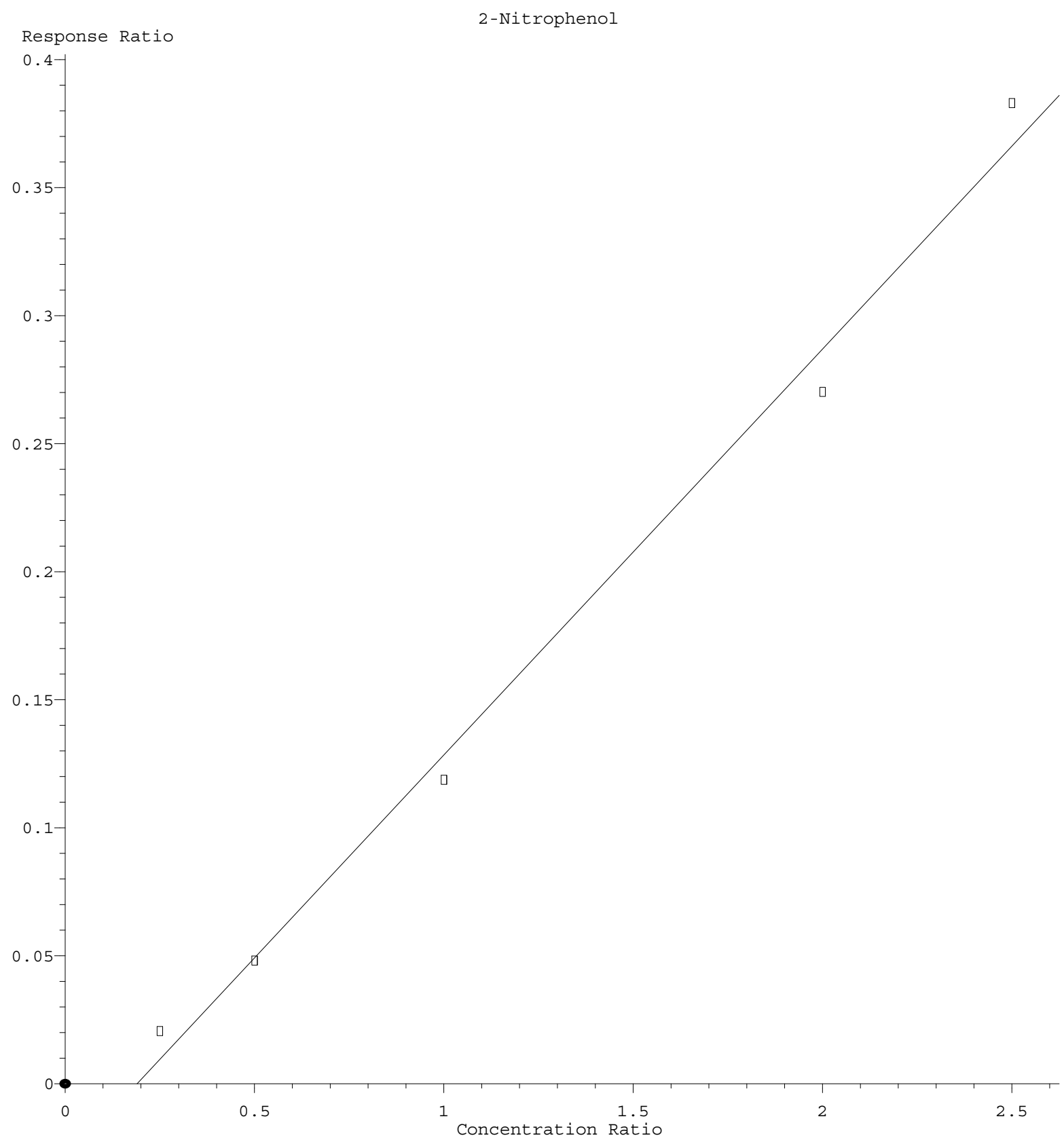

Response = 1.587e-001 * Amt - 3.022e-002
Coef of Det (r^2) = 0.991825 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM013024.M
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