Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM031225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Mar 13 01:48:09 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM049695.D 5 =BM049696.D 10 =BM049697.D 20 =BM049698.D 40 =BM049699.D 50 =BM049700.D 60 =BM049701.D 80 =BM0497
02.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.510	0.497	0.513	0.458	0.505	0.497	0.488	0.496	3.75
3)		Pyridine		1.339	1.259	1.371	1.306	1.361	1.466	1.404	1.358	4.92
4)		n-Nitrosodimet...		0.556	0.547	0.595	0.555	0.581	0.605	0.566	0.572	3.84
5)	S	2-Fluorophenol		1.066	1.091	1.199	1.157	1.239	1.276	1.255	1.183	6.93
6)		Aniline		1.323	1.266	1.389	1.327	1.312	1.402	1.299	1.331	3.65
7)	S	Phenol-d6		1.378	1.394	1.585	1.574	1.620	1.748	1.690	1.570	8.89
8)		2-Chlorophenol		1.104	1.118	1.224	1.181	1.231	1.298	1.287	1.206	6.30
9)		Benzaldehyde			0.861	0.858	0.678	0.642	0.618		0.731	16.25
10)	C	Phenol		1.382	1.382	1.547	1.503	1.547	1.670	1.626	1.522	7.28
11)		bis(2-Chloroet...		1.189	1.137	1.248	1.180	1.215	1.293	1.266	1.218	4.47
12)		1,3-Dichlorobe...		1.385	1.366	1.455	1.357	1.435	1.484	1.495	1.425	3.96
13)	C	1,4-Dichlorobe...		1.394	1.368	1.461	1.383	1.450	1.508	1.518	1.440	4.19
14)		1,2-Dichlorobe...		1.335	1.302	1.413	1.333	1.390	1.451	1.451	1.382	4.34
15)		Benzyl Alcohol		0.878	0.856	1.043	1.046	1.055	1.161	1.118	1.023	11.22
16)		2,2'-oxybis(1-...		1.431	1.358	1.491	1.386	1.394	1.472	1.411	1.421	3.36
17)		2-Methylphenol		0.809	0.818	0.938	0.923	0.939	1.019	1.003	0.921	8.86
18)		Hexachloroethane		0.474	0.482	0.518	0.486	0.510	0.531	0.530	0.504	4.69
19)	P	n-Nitroso-di-n...	0.812	0.885	0.837	1.000	0.993	0.963	1.067	0.988	0.943	9.43
20)		3+4-Methylphenols		1.100	1.081	1.301	1.285	1.277	1.424	1.406	1.268	10.59
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.486	0.488	0.526	0.508	0.534	0.550	0.532	0.518	4.72
23)	S	Nitrobenzene-d5		0.344	0.356	0.392	0.382	0.405	0.417	0.397	0.385	6.85
24)		Nitrobenzene		0.342	0.351	0.373	0.354	0.377	0.387	0.375	0.366	4.54
25)		Isophorone		0.566	0.548	0.633	0.640	0.649	0.705	0.689	0.633	9.18
26)	C	2-Nitrophenol		0.112	0.127	0.155	0.162	0.175	0.187	0.194	0.159	18.92
27)		2,4-Dimethylph...		0.177	0.182	0.206	0.205	0.214	0.227	0.234	0.206	10.40
28)		bis(2-Chloroet...		0.409	0.397	0.436	0.421	0.436	0.459	0.454	0.430	5.29
29)	C	2,4-Dichloroph...		0.272	0.286	0.331	0.331	0.346	0.371	0.382	0.331	12.25
30)		1,2,4-Trichlor...		0.365	0.377	0.394	0.380	0.406	0.420	0.435	0.397	6.28
31)		Naphthalene		0.948	0.957	1.024	1.009	1.065	1.107	1.119	1.032	6.57
32)		Benzoic acid			0.109	0.160	0.191	0.197	0.233	0.242	0.189	25.98
33)		4-Chloroaniline		0.328	0.328	0.372	0.376	0.375	0.410	0.402	0.370	8.72
34)	C	Hexachlorobuta...		0.219	0.227	0.238	0.230	0.249	0.257	0.274	0.242	7.90
35)		Caprolactam			0.060	0.085	0.096	0.089	0.110	0.106	0.091	19.69
36)	C	4-Chloro-3-met...		0.256	0.243	0.301	0.318	0.314	0.357	0.351	0.306	14.25
37)		2-Methylnaphth...		0.678	0.659	0.745	0.747	0.764	0.823	0.837	0.750	8.86
38)		1-Methylnaphth...		0.661	0.633	0.721	0.729	0.741	0.803	0.809	0.728	9.05

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.589	0.660	0.676	0.675	0.757	0.750	0.764	0.696	9.23
41)	P	Hexachlorocycl...	0.202	0.242	0.248	0.249	0.279	0.266	0.270	0.251	10.13
42)	S	2,4,6-Tribromo...	0.182	0.183	0.241	0.289	0.282			0.235	21.94
43)	C	2,4,6-Trichlor...	0.307	0.358	0.402	0.415	0.448	0.459	0.459	0.407	13.98
44)		2,4,5-Trichlor...	0.354	0.391	0.437	0.458	0.483	0.512	0.502	0.448	13.04
45)	S	2-Fluorobiphenyl	1.329	1.417	1.530	1.517	1.651	1.655	1.377	1.497	8.59
46)		1,1'-Biphenyl	1.323	1.412	1.497	1.467	1.571	1.576	1.548	1.485	6.24
47)		2-Chloronaphth...	1.035	1.123	1.174	1.124	1.222	1.218	1.198	1.156	5.80
48)		2-Nitroaniline	0.213	0.221	0.278	0.292	0.304	0.329	0.299	0.277	15.74
49)		Acenaphthylene	1.437	1.508	1.669	1.677	1.757	1.841	1.802	1.670	8.98
50)		Dimethylphthalate	1.278	1.241	1.414	1.413	1.433	1.549	1.526	1.408	8.17
51)		2,6-Dinitrotol...	0.238	0.233	0.283	0.292	0.298	0.326	0.318	0.284	12.72
52)	C	Acenaphthene	0.972	0.993	1.094	1.099	1.154	1.200	1.187	1.100	8.19
53)		3-Nitroaniline	0.219	0.211	0.275	0.294	0.291	0.332	0.322	0.278	17.00
54)	P	2,4-Dinitrophenol		0.080	0.120	0.153	0.151	0.191	0.205	0.150	30.57
55)		Dibenzofuran	1.681	1.679	1.824	1.822	1.888	2.003	1.987	1.841	7.10
56)	P	4-Nitrophenol		0.162	0.227	0.253	0.244	0.296	0.282	0.244	19.52
57)		2,4-Dinitrotol...	0.291	0.277	0.367	0.405	0.394	0.462	0.454	0.379	19.19
58)		Fluorene	1.292	1.266	1.509	1.590	1.613	1.764	1.584	1.517	11.85
59)		2,3,4,6-Tetrac...	0.303	0.304	0.375	0.408	0.404	0.463	0.477	0.391	17.68
60)		Diethylphthalate	1.215	1.115	1.325	1.403	1.372	1.547	1.471	1.350	10.94
61)		4-Chlorophenyl...	0.696	0.673	0.806	0.863	0.880	0.977	0.945	0.834	13.98
62)		4-Nitroaniline	0.223	0.207	0.291	0.320	0.306	0.362	0.343	0.293	19.92
63)		Azobenzene	1.108	1.074	1.276	1.308	1.309	1.421	1.269	1.252	9.67
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.066	0.093	0.106	0.110	0.127	0.141	0.107	24.54
66)	c	n-Nitrosodiphe...	0.501	0.563	0.606	0.596	0.643	0.645	0.656	0.602	9.17
67)		4-Bromophenyl-...	0.184	0.205	0.223	0.227	0.246	0.254	0.283	0.232	14.14
68)		Hexachlorobenzene	0.219	0.231	0.250	0.253	0.271	0.286	0.308	0.260	11.91
69)		Atrazine	0.151	0.149	0.147	0.133	0.098			0.136	16.41
70)	C	Pentachlorophenol		0.115	0.152	0.172	0.176	0.201		0.163	19.54
71)		Phenanthrene	0.949	0.992	1.084	1.118	1.162	1.240	1.153	1.100	9.17
72)		Anthracene	0.889	0.936	1.058	1.097	1.147	1.228	1.167	1.075	11.52
73)		Carbazole	0.843	0.837	0.955	1.022	1.029	1.167	1.112	0.995	12.64
74)		Di-n-butylphth...	0.874	0.839	1.031	1.168	1.142	1.311	1.133	1.071	15.72
75)	C	Fluoranthene	1.068	1.005	1.182	1.415	1.368	1.677	1.278	1.285	17.79
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.209	0.166	0.121	0.229	0.155	0.224	0.178	0.183	21.71
78)		Pyrene	1.112	1.335	1.555	1.384	1.585	1.335	1.135	1.349	13.60
79)	S	Terphenyl-d14	0.894	1.053	1.351	1.185	1.399			1.176	17.80
80)		Butylbenzylpht...	0.317	0.354	0.439	0.459	0.492	0.490	0.497	0.435	16.55
81)		Benzo(a)anthra...	1.134	1.174	1.320	1.325	1.409	1.454	1.222	1.291	9.27
82)		3,3'-Dichlorob...	0.297	0.323	0.356	0.431	0.405	0.509	0.468	0.399	19.44
83)		Chrysene	1.050	1.132	1.224	1.227	1.317	1.367	1.136	1.208	9.18
84)		Bis(2-ethylhex...	0.503	0.516	0.641	0.723	0.740	0.753	0.707	0.655	16.10
85)	c	Di-n-octyl pht...	0.728	0.721	0.843	1.046	1.056	1.268	1.190	0.979	22.33

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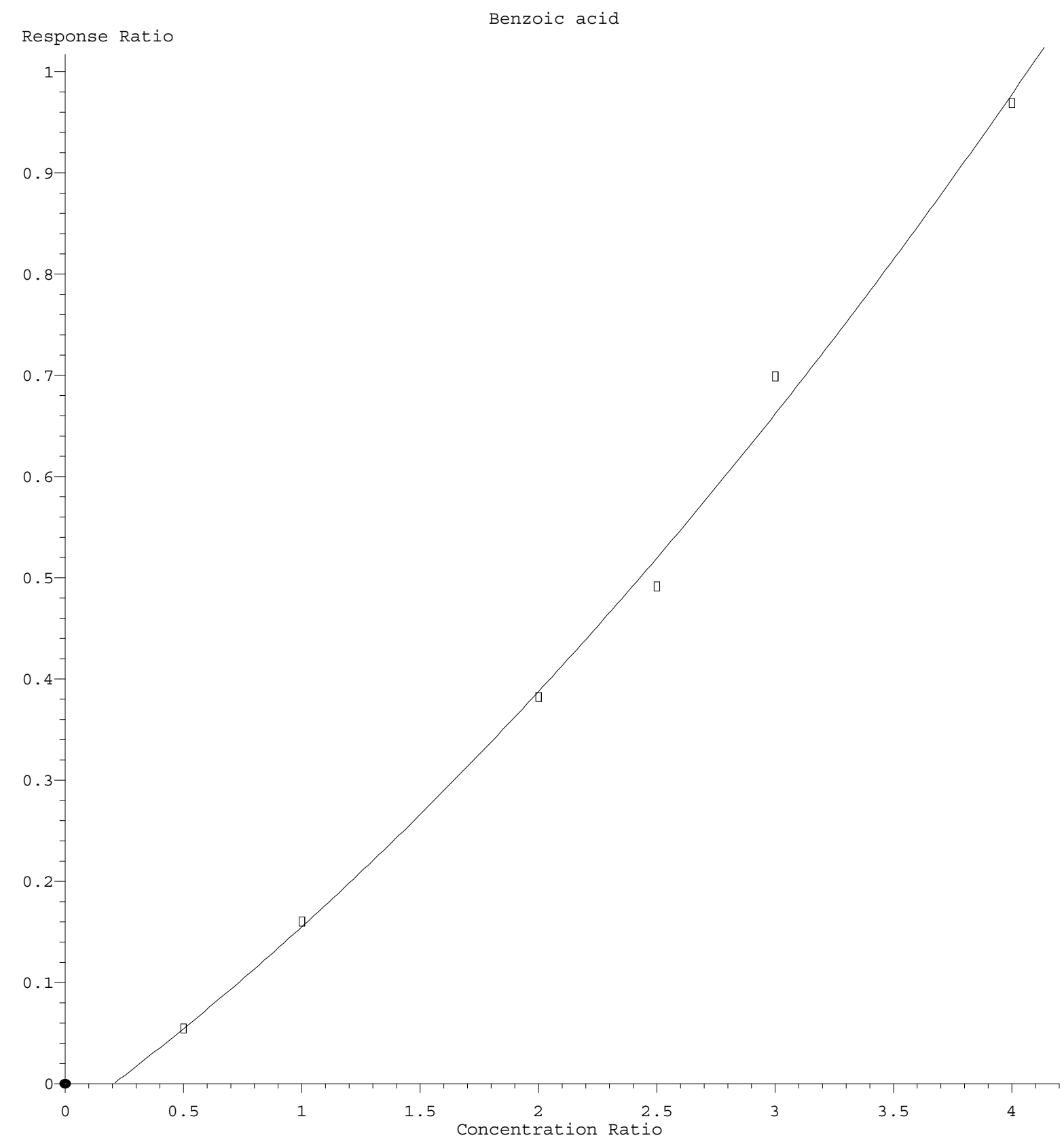
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.111	1.231	1.292	1.164	1.476	1.583	1.347	1.315	12.84
88)		Benzo(b)fluora...	1.060	1.162	1.319	1.426	1.473	1.535	1.617	1.370	14.70
89)		Benzo(k)fluora...	1.038	1.107	1.311	1.389	1.427	1.510	1.554	1.334	14.69
90)	C	Benzo(a)pyrene	0.882	0.952	1.096	1.142	1.232	1.326	1.348	1.140	15.62
91)		Dibenzo(a,h)an...	0.917	1.013	1.065	0.973	1.230	1.343	1.138	1.097	13.72
92)		Benzo(g,h,i)pe...	0.953	1.063	1.093	0.924	1.237	1.280	1.032	1.083	12.40

(#) = Out of Range



R = 2.087e-002 A*A + 1.699e-001 A - 3.565e-002
Coef of Det (r^2) = 0.996023 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM031225.M
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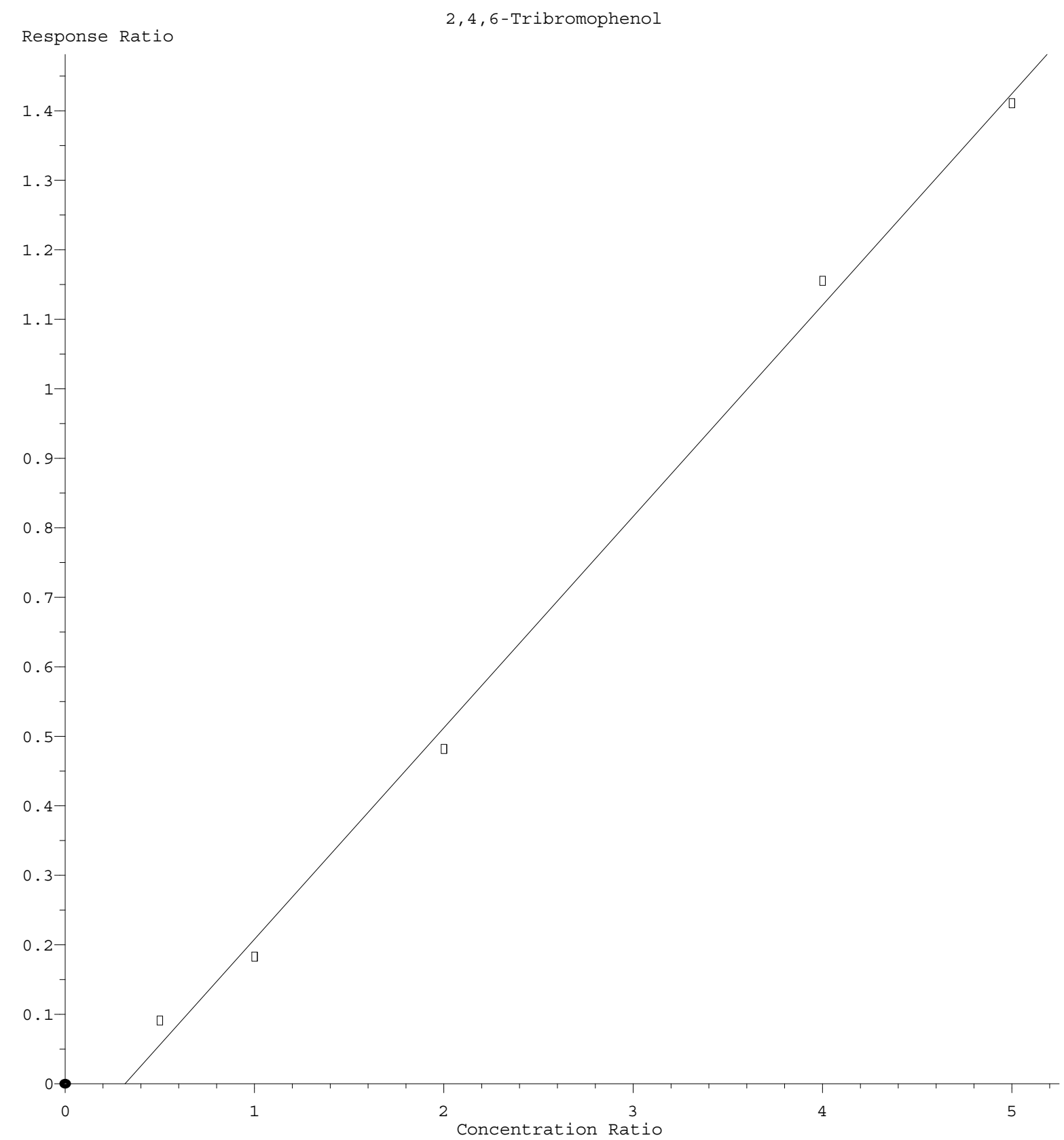

Response = 3.042e-001 * Amt - 9.609e-002
Coef of Det (r^2) = 0.996992 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM031225.M
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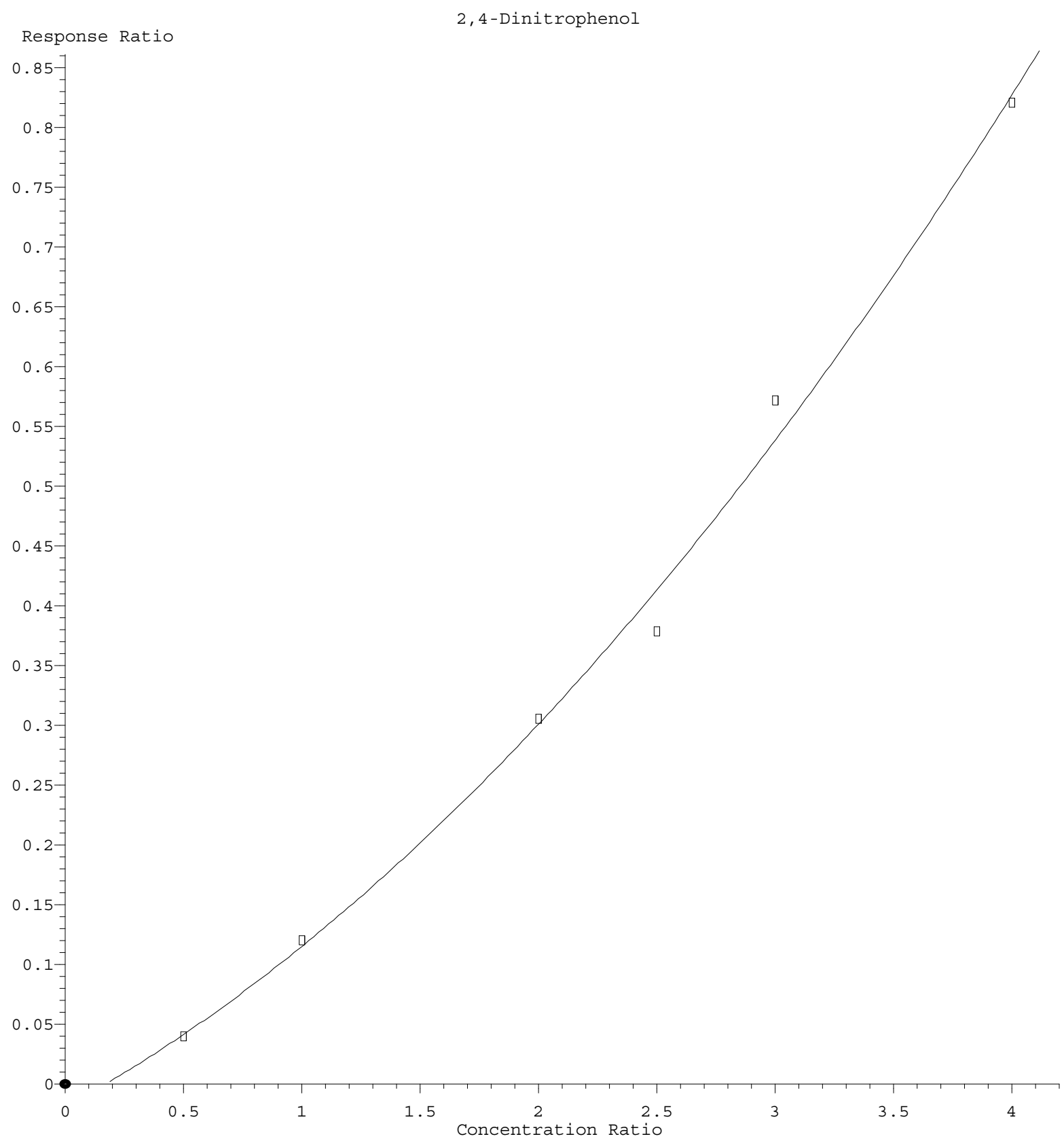

R = 2.573e-002 A*A + 1.087e-001 A - 1.934e-002
Coef of Det (r^2) = 0.994270 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM031225.M
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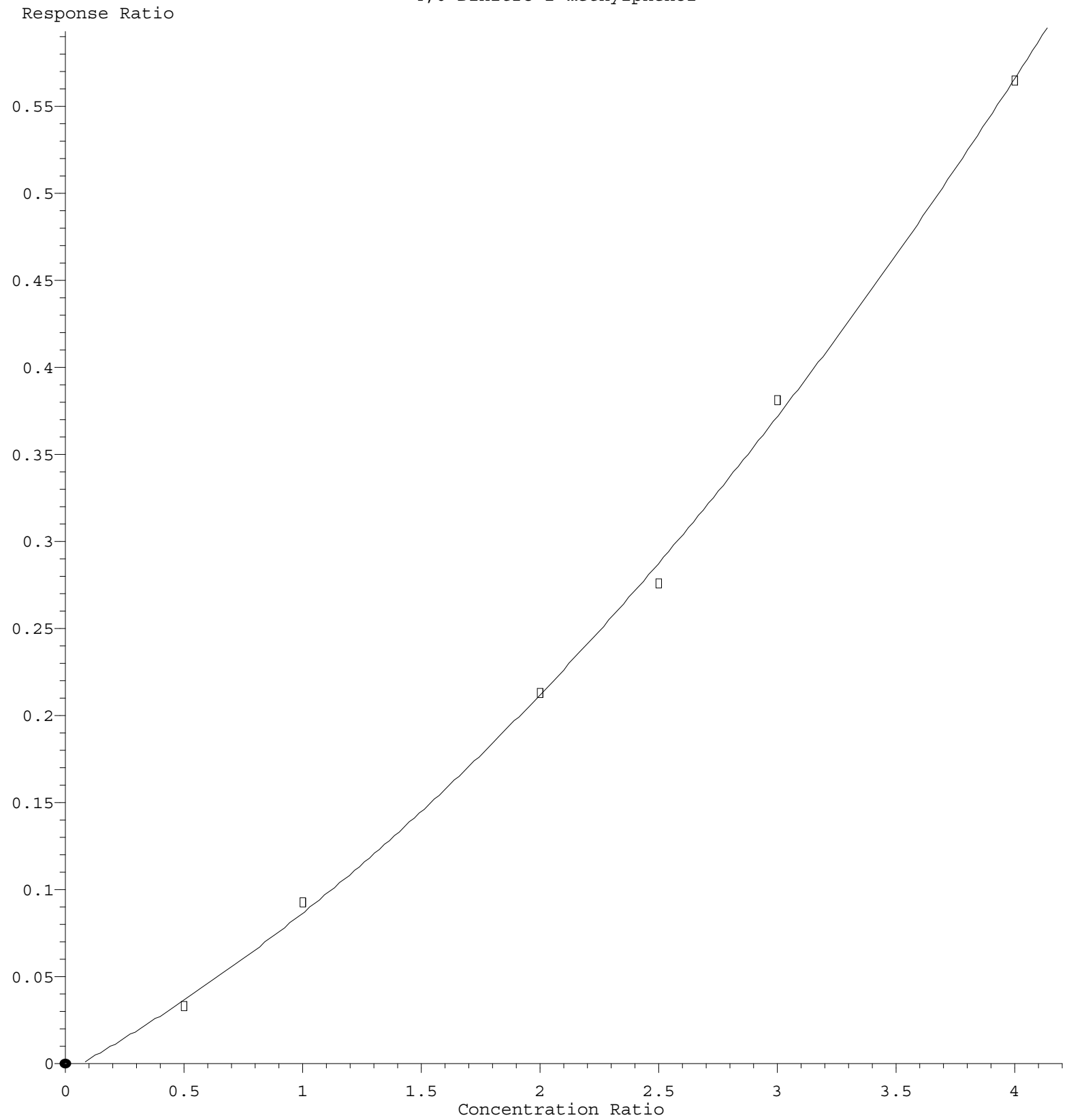
4,6-Dinitro-2-methylphenol



R = 1.714e-002 A*A + 7.417e-002 A - 4.894e-003
Coef of Det (r^2) = 0.998537 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM031225.M
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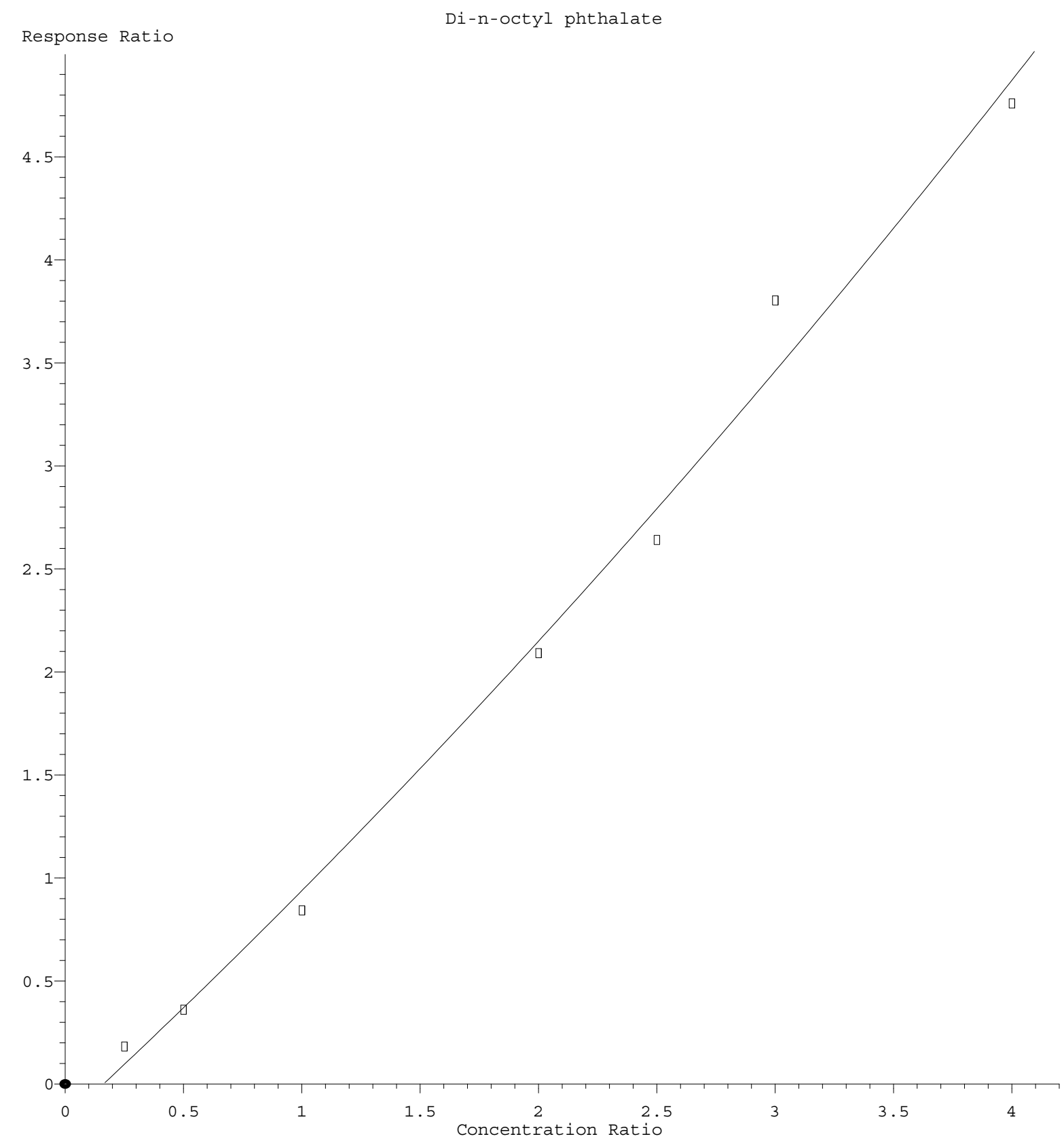

R = 5.000e-002 A*A + 1.061e+000 A - 1.729e-001
Coef of Det (r^2) = 0.990663 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM031225.M
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