Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM020525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Feb 06 04:55:28 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM049564.D 5 =BM049565.D 10 =BM049566.D 20 =BM049567.D 40 =BM049568.D 50 =BM049569.D 60 =BM049570.D 80 =BM0495
71.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.506	0.518	0.548	0.518	0.512	0.532	0.527	0.523	2.72
3)		Pyridine		1.401	1.384	1.478	1.489	1.476	1.527	1.418	1.453	3.63
4)		n-Nitrosodimet...		0.630	0.641	0.697	0.692	0.691	0.705	0.703	0.680	4.54
5)	S	2-Fluorophenol		1.171	1.168	1.253	1.252	1.247	1.299	1.316	1.244	4.58
6)		Aniline		1.461	1.443	1.565	1.565	1.558	1.603	1.617	1.544	4.33
7)	S	Phenol-d6		1.474	1.479	1.629	1.655	1.669	1.732	1.768	1.629	7.02
8)		2-Chlorophenol		1.136	1.182	1.240	1.256	1.267	1.300	1.312	1.242	5.08
9)		Benzaldehyde		0.958	1.001	0.999	0.855	0.813	0.759	0.653	0.863	15.27
10)	C	Phenol		1.491	1.489	1.615	1.618	1.622	1.685	1.715	1.605	5.43
11)		bis(2-Chloroet...		1.234	1.241	1.319	1.308	1.309	1.337	1.341	1.298	3.35
12)		1,3-Dichlorobe...		1.403	1.383	1.466	1.444	1.443	1.476	1.476	1.441	2.52
13)	C	1,4-Dichlorobe...		1.414	1.402	1.470	1.462	1.461	1.494	1.503	1.458	2.58
14)		1,2-Dichlorobe...		1.356	1.339	1.426	1.424	1.415	1.446	1.449	1.408	3.06
15)		Benzyl Alcohol		1.031	1.023	1.119	1.160	1.169	1.206	1.227	1.134	7.10
16)		2,2'-oxybis(1-...		1.668	1.682	1.811	1.773	1.761	1.781	1.760	1.748	3.04
17)		2-Methylphenol		0.923	0.904	0.989	0.993	0.998	1.026	1.037	0.981	5.10
18)		Hexachloroethane		0.509	0.503	0.538	0.541	0.534	0.551	0.551	0.533	3.63
19)	P	n-Nitroso-di-n...	0.961	0.989	1.006	1.096	1.107	1.105	1.133	1.141	1.067	6.61
20)		3+4-Methylphenols		1.169	1.163	1.281	1.310	1.348	1.389	1.408	1.295	7.59
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.501	0.501	0.538	0.544	0.547	0.562	0.578	0.539	5.40
23)	S	Nitrobenzene-d5		0.341	0.348	0.387	0.397	0.404	0.418	0.428	0.389	8.55
24)		Nitrobenzene		0.340	0.348	0.381	0.387	0.387	0.397	0.404	0.378	6.47
25)		Isophorone		0.645	0.651	0.706	0.711	0.715	0.732	0.748	0.701	5.55
26)	C	2-Nitrophenol		0.080	0.085	0.106	0.123	0.129	0.140	0.150	0.116	23.25
27)		2,4-Dimethylph...		0.239	0.202	0.216	0.217	0.218	0.226	0.234	0.222	5.53
28)		bis(2-Chloroet...		0.426	0.424	0.453	0.457	0.454	0.468	0.480	0.452	4.54
29)	C	2,4-Dichloroph...		0.256	0.262	0.303	0.315	0.319	0.334	0.349	0.305	11.39
30)		1,2,4-Trichlor...		0.352	0.346	0.376	0.374	0.375	0.391	0.405	0.374	5.47
31)		Naphthalene		0.987	0.975	1.051	1.061	1.063	1.106	1.141	1.055	5.61
32)		Benzoic acid			0.061	0.090	0.125	0.139	0.154	0.175	0.124	34.11
33)		4-Chloroaniline		0.371	0.367	0.394	0.396	0.399	0.412	0.425	0.395	5.27
34)	C	Hexachlorobuta...		0.205	0.207	0.219	0.224	0.228	0.239	0.247	0.224	6.91
35)		Caprolactam		0.076	0.085	0.091	0.096	0.098	0.100	0.105	0.093	10.49
36)	C	4-Chloro-3-met...		0.258	0.263	0.302	0.313	0.319	0.331	0.346	0.305	10.86
37)		2-Methylnaphth...		0.680	0.670	0.731	0.746	0.758	0.790	0.823	0.743	7.43
38)		1-Methylnaphth...		0.666	0.658	0.706	0.725	0.733	0.769	0.801	0.723	7.16

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Method File : 8270-BM020525.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.576	0.576	0.630	0.669	0.680	0.720	0.752	0.658	10.28
41)	P	Hexachlorocycl...	0.124	0.132	0.157	0.176	0.181	0.196	0.209	0.168	18.90
42)	S	2,4,6-Tribromo...		0.174	0.209	0.248	0.261	0.293		0.237	19.51
43)	C	2,4,6-Trichlor...	0.277	0.295	0.345	0.373	0.384	0.407	0.430	0.359	15.68
44)		2,4,5-Trichlor...	0.289	0.333	0.380	0.412	0.427	0.447	0.473	0.394	16.52
45)	S	2-Fluorobiphenyl	1.306	1.342	1.473	1.594	1.623	1.708	1.761	1.544	11.38
46)		1,1'-Biphenyl	1.385	1.391	1.494	1.552	1.554	1.623	1.680	1.526	7.26
47)		2-Chloronaphth...	1.071	1.089	1.163	1.198	1.197	1.255	1.290	1.180	6.82
48)		2-Nitroaniline	0.188	0.209	0.259	0.293	0.298	0.318	0.331	0.271	20.16
49)		Acenaphthylene	1.581	1.587	1.708	1.746	1.779	1.856	1.928	1.741	7.43
50)		Dimethylphthalate	1.330	1.320	1.405	1.442	1.461	1.518	1.578	1.436	6.56
51)		2,6-Dinitrotol...	0.172	0.200	0.241	0.262	0.272	0.287	0.306	0.249	19.35
52)	C	Acenaphthene	1.005	1.033	1.113	1.173	1.190	1.259	1.315	1.155	9.81
53)		3-Nitroaniline	0.180	0.204	0.243	0.271	0.275	0.293	0.305	0.253	18.32
54)	P	2,4-Dinitrophenol		0.030	0.042	0.057	0.063	0.076	0.090	0.060	36.78
55)		Dibenzofuran	1.672	1.684	1.807	1.852	1.858	1.949	2.057	1.840	7.45
56)	P	4-Nitrophenol		0.148	0.184	0.218	0.226	0.244	0.259	0.213	19.05
57)		2,4-Dinitrotol...	0.179	0.213	0.283	0.332	0.347	0.375	0.401	0.304	27.26
58)		Fluorene	1.307	1.314	1.496	1.636	1.664	1.760	1.840	1.574	13.29
59)		2,3,4,6-Tetrac...	0.243	0.261	0.313	0.350	0.362	0.387	0.417	0.333	19.29
60)		Diethylphthalate	1.298	1.315	1.409	1.472	1.476	1.539	1.596	1.443	7.64
61)		4-Chlorophenyl...	0.668	0.680	0.765	0.880	0.904	0.957	1.009	0.838	16.06
62)		4-Nitroaniline	0.189	0.221	0.265	0.310	0.319	0.331	0.349	0.283	21.12
63)		Azobenzene	1.431	1.434	1.505	1.513	1.515	1.566	1.583	1.507	3.86
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.028	0.038	0.052	0.058	0.067	0.076	0.053	33.97
66)	c	n-Nitrosodiphe...	0.552	0.563	0.617	0.640	0.647	0.689	0.706	0.631	9.28
67)		4-Bromophenyl-...	0.198	0.202	0.219	0.235	0.242	0.257	0.273	0.232	11.86
68)		Hexachlorobenzene	0.233	0.234	0.251	0.270	0.275	0.292	0.313	0.267	11.15
69)		Atrazine	0.164	0.173	0.188	0.188	0.195	0.202	0.202	0.187	7.70
70)	C	Pentachlorophenol		0.094	0.125	0.149	0.157	0.172	0.187	0.147	22.80
71)		Phenanthrene	0.992	0.998	1.083	1.149	1.179	1.266	1.308	1.139	10.81
72)		Anthracene	0.973	0.979	1.075	1.136	1.180	1.251	1.303	1.128	11.32
73)		Carbazole	0.905	0.931	0.971	0.991	1.001	1.049	1.082	0.990	6.28
74)		Di-n-butylphth...	1.041	1.079	1.208	1.299	1.331	1.398	1.441	1.256	12.24
75)	C	Fluoranthene	1.081	1.106	1.218	1.347	1.412	1.533	1.641	1.334	15.88
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.208	0.179	0.153	0.194	0.160	0.155	0.191	0.177	12.16
78)		Pyrene	1.351	1.358	1.465	1.497	1.542	1.609	1.660	1.498	7.85
79)	S	Terphenyl-d14	1.051	1.099	1.309	1.462	1.485	1.489	1.272	1.310	13.89
80)		Butylbenzylpht...	0.332	0.367	0.443	0.503	0.514	0.537	0.566	0.466	19.00
81)		Benzo(a)anthra...	1.190	1.197	1.311	1.370	1.404	1.488	1.529	1.355	9.76
82)		3,3'-Dichlorob...	0.306	0.330	0.359	0.383	0.382	0.387	0.407	0.365	9.79
83)		Chrysene	1.108	1.134	1.226	1.295	1.317	1.376	1.433	1.270	9.49
84)		Bis(2-ethylhex...	0.651	0.679	0.786	0.834	0.846	0.883	0.913	0.799	12.47
85)	c	Di-n-octyl pht...	1.010	1.067	1.224	1.315	1.342	1.405	1.459	1.260	13.41

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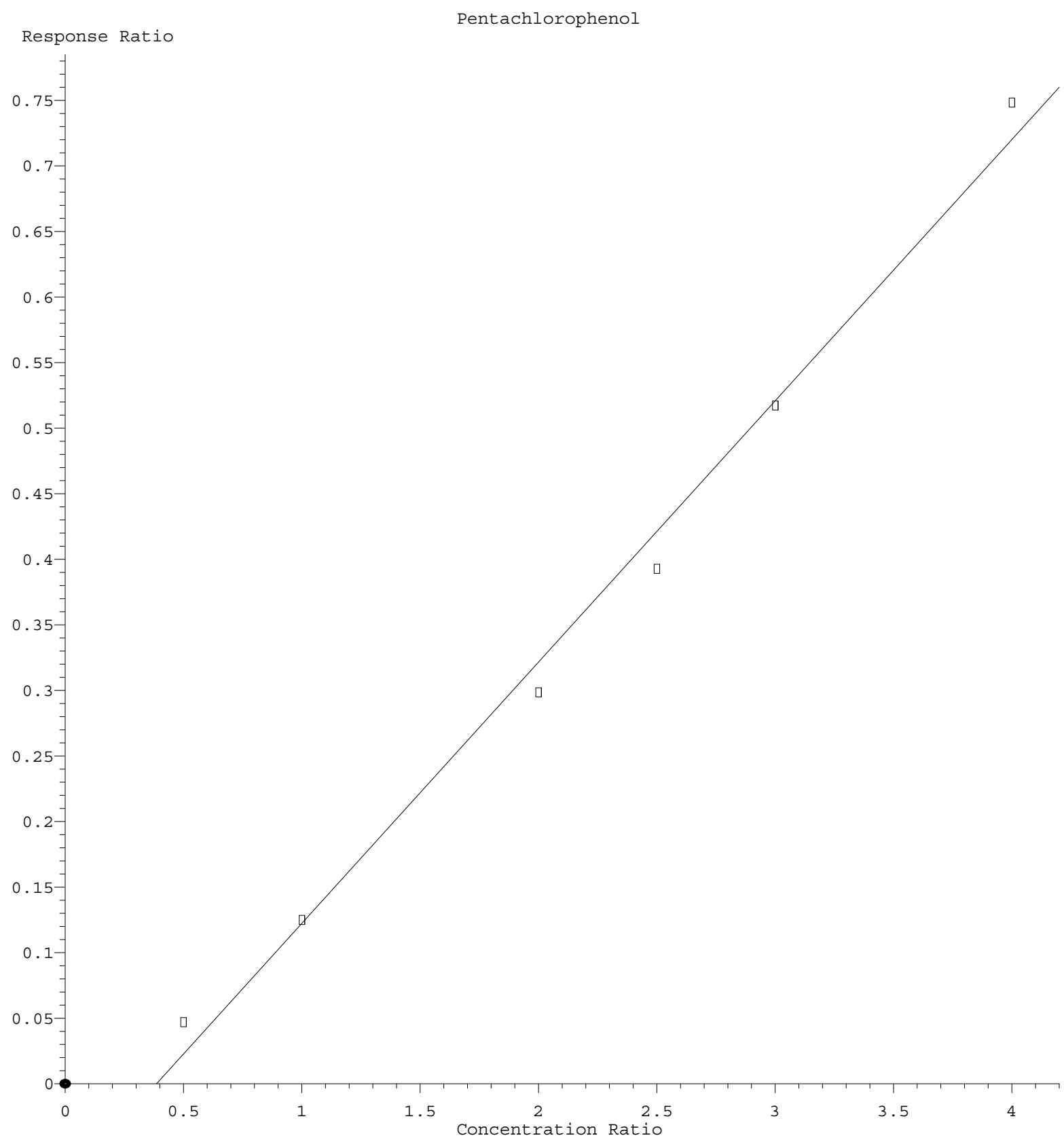
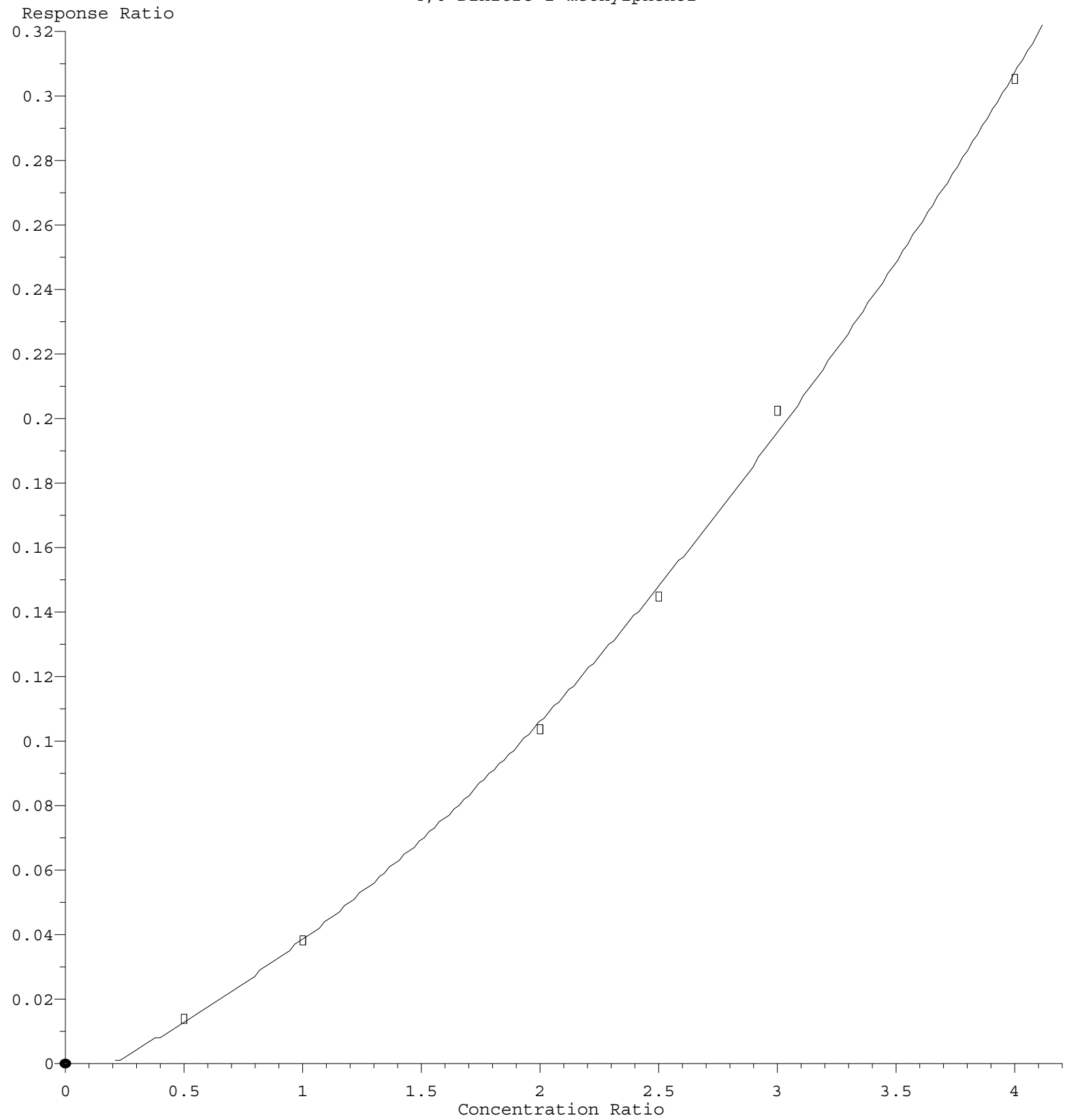
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	0.871	0.911	1.018	1.114	1.148	1.250	1.333	1.092	15.58
88)		Benzo(b)fluora...	1.138	1.158	1.273	1.397	1.429	1.552	1.683	1.376	14.63
89)		Benzo(k)fluora...	1.102	1.104	1.253	1.333	1.418	1.513	1.632	1.336	15.01
90)	C	Benzo(a)pyrene	0.896	0.924	1.022	1.103	1.137	1.228	1.322	1.090	14.26
91)		Dibenzo(a,h)an...	0.673	0.697	0.793	0.877	0.915	1.001	1.088	0.863	17.79
92)		Benzo(g,h,i)pe...	0.793	0.824	0.919	0.986	1.004	1.084	1.141	0.964	13.30

(#) = Out of Range



Response = 1.992e-001 * Amt - 7.682e-002
Coef of Det (r^2) = 0.991745 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM020525.M
Calibration Table Last Updated: Thu Feb 06 04:55:28 2025

4,6-Dinitro-2-methylphenol



R = 1.103e-002 A*A + 3.448e-002 A - 7.088e-003
Coef of Det (r^2) = 0.998858 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM020525.M
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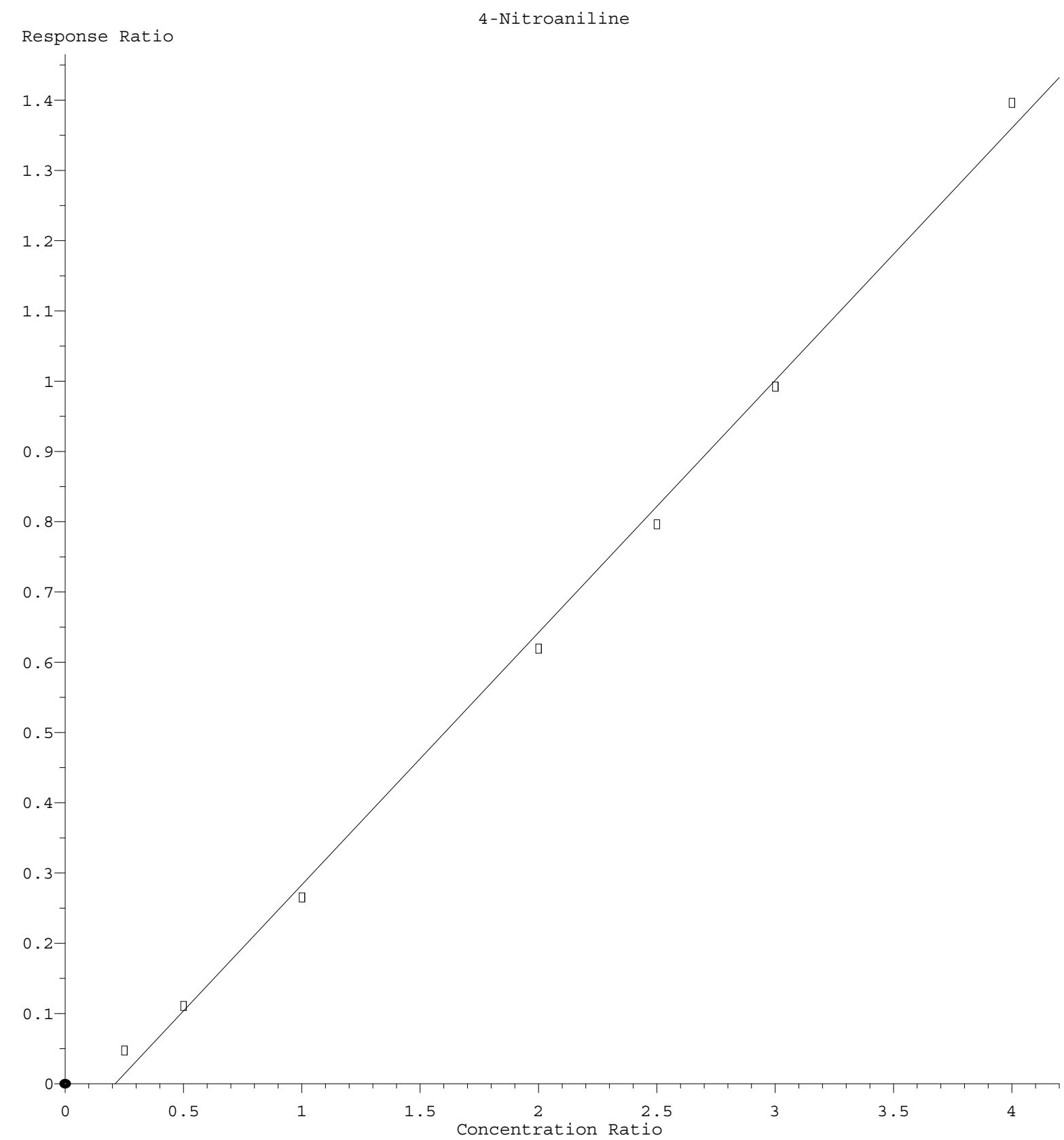

Response = 3.589e-001 * Amt - 7.556e-002
Coef of Det (r^2) = 0.997283 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM020525.M
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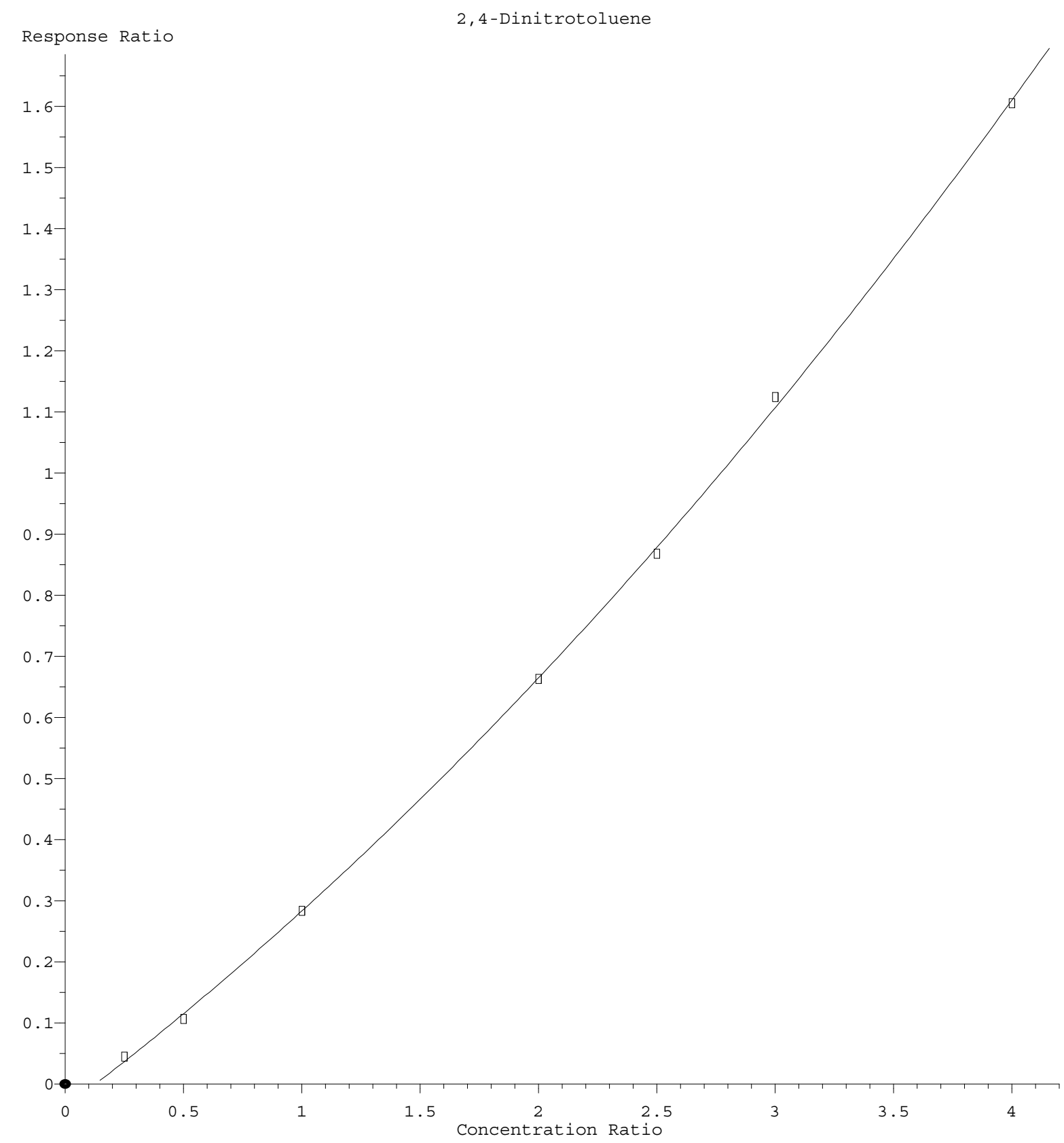

R = 3.041e-002 A*A + 2.904e-001 A - 3.770e-002
Coef of Det (r^2) = 0.999712 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM020525.M
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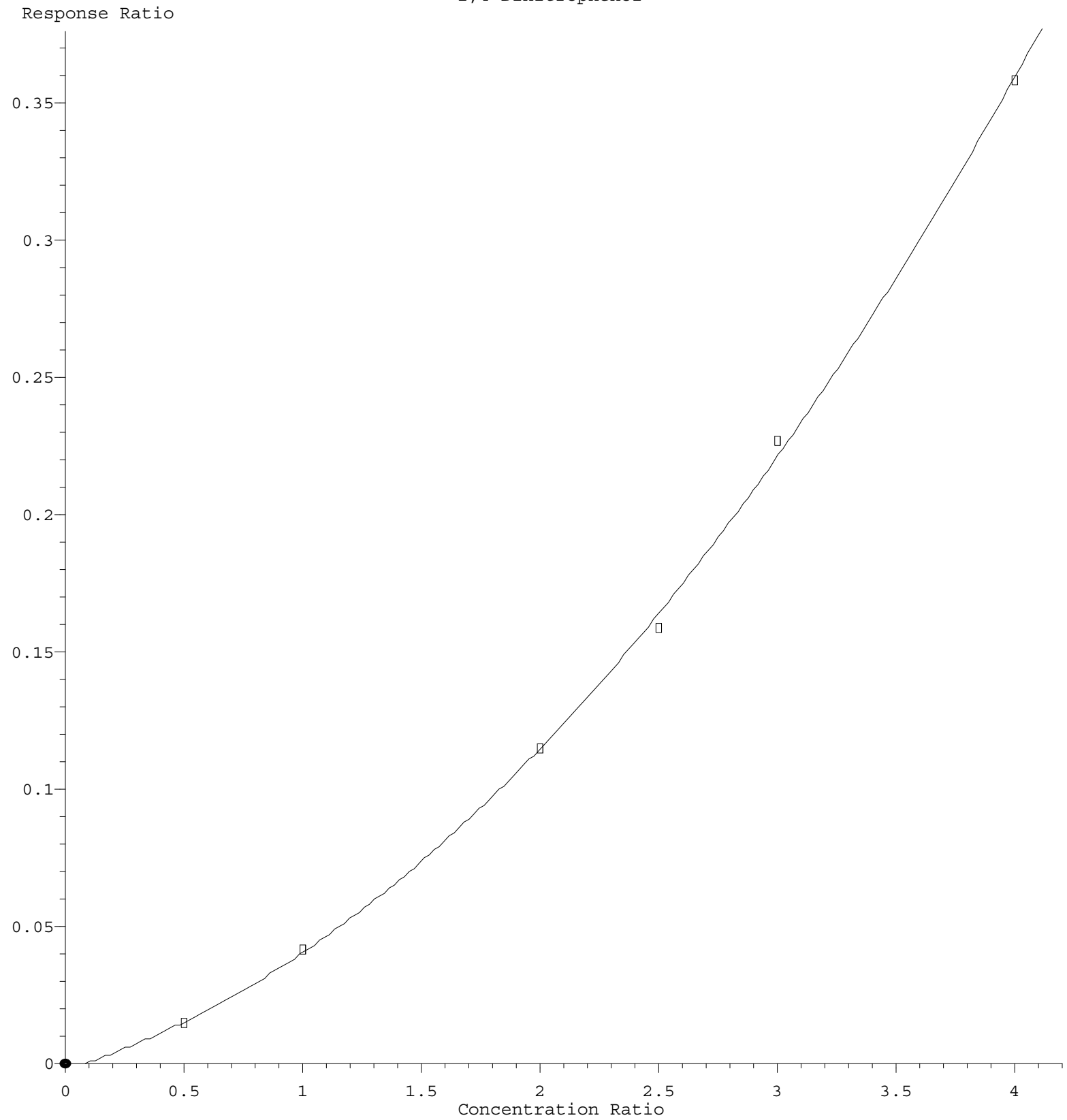
2,4-Dinitrophenol



R = 1.595e-002 A*A + 2.658e-002 A - 2.128e-003
Coef of Det (r^2) = 0.999216 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM020525.M
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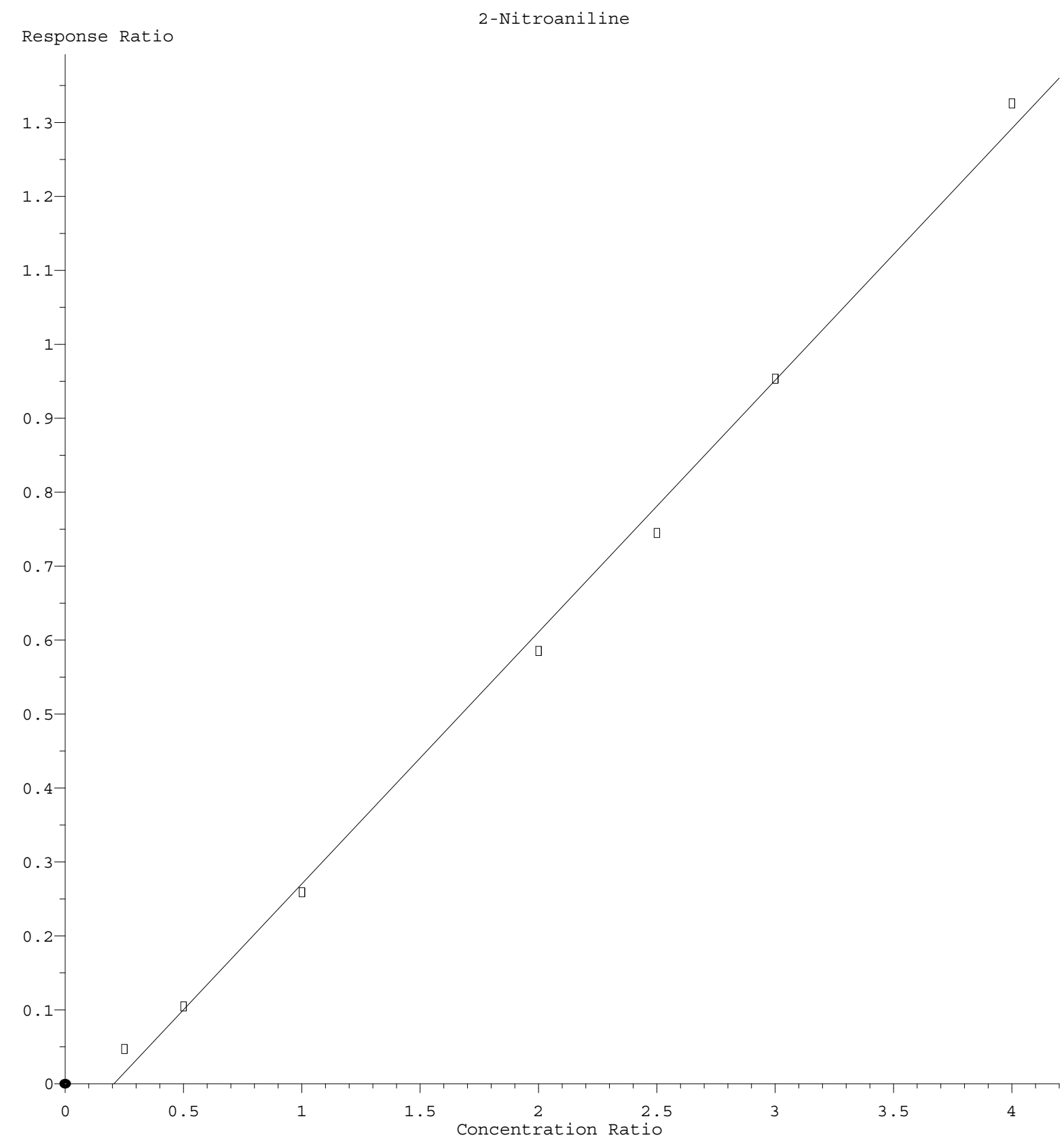

Response = 3.405e-001 * Amt - 7.027e-002
Coef of Det (r^2) = 0.996783 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM020525.M
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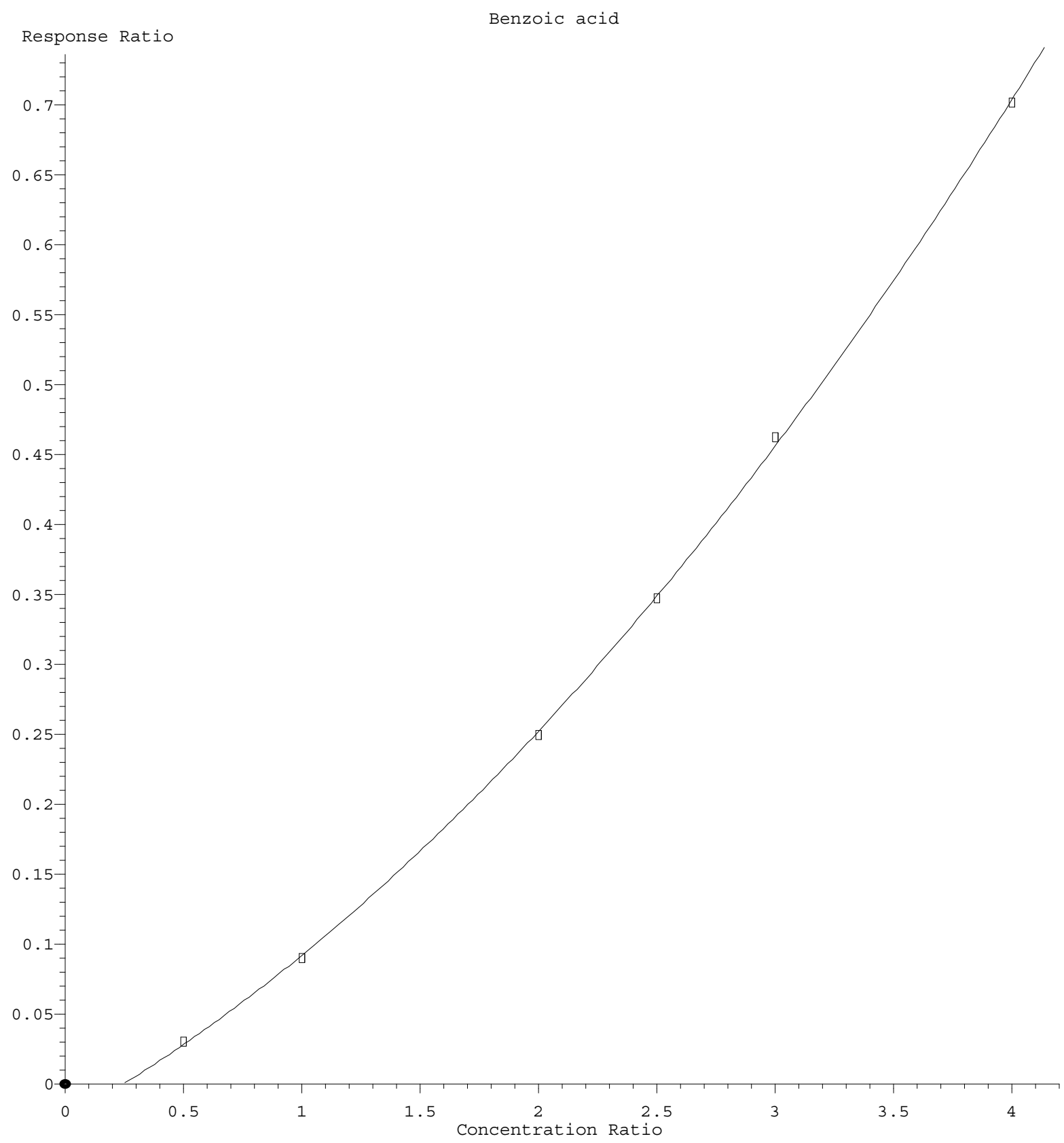

R = 2.184e-002 A*A + 9.471e-002 A - 2.458e-002
Coef of Det (r^2) = 0.999802 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM020525.M
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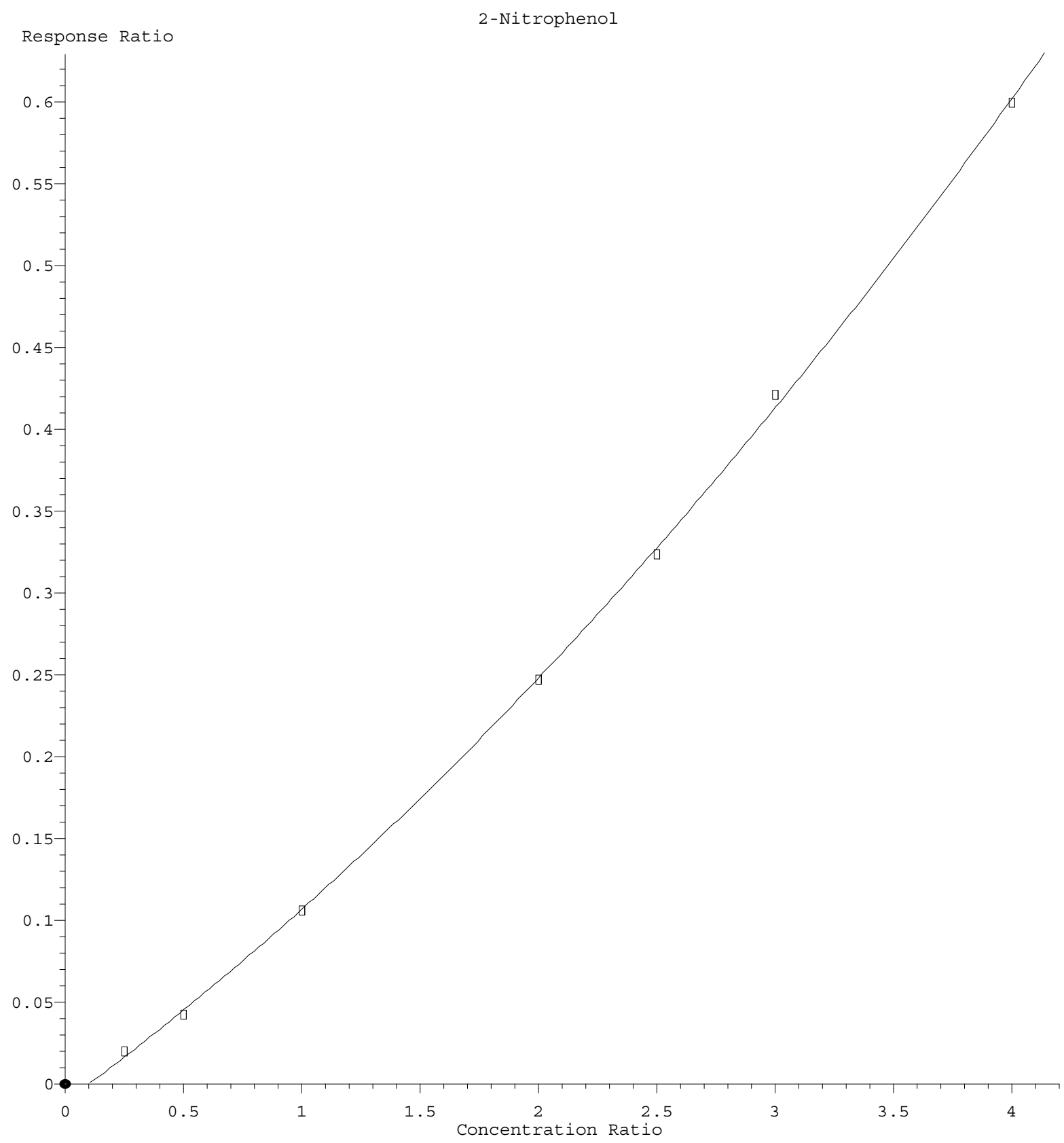

R = 1.192e-002 A*A + 1.055e-001 A - 1.056e-002
Coef of Det (r^2) = 0.999613 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM020525.M
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