Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP080525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 06 06:41:44 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP025298.D 5 =BP025299.D 10 =BP025300.D 20 =BP025301.D 40 =BP025302.D 50 =BP025303.D 60 =BP025304.D 80 =BP0253
05.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.536	0.502	0.479	0.481	0.495	0.482	0.460	0.491	4.85
3)		Pyridine		1.368	1.344	1.341	1.340	1.407	1.397	1.347	1.363	2.06
4)		n-Nitrosodimet...			0.607	0.627	0.611	0.661	0.656	0.636	0.633	3.51
5)	S	2-Fluorophenol	1.187	1.248	1.220	1.251	1.233	1.297	1.287	1.225	1.244	2.88
6)		Aniline		2.182	2.099	2.208	2.218	2.385	2.403	2.231	2.247	4.88
7)	S	Phenol-d6	1.535	1.587	1.583	1.648	1.632	1.734	1.744	1.629	1.637	4.44
8)		2-Chlorophenol		1.251	1.264	1.355	1.350	1.451	1.463	1.394	1.361	6.09
9)		Benzaldehyde			1.132	1.083	1.402	1.409	1.095	0.852	1.162	18.31
10)	C	Phenol		1.694	1.677	1.728	1.731	1.844	1.859	1.725	1.751	4.08
11)		bis(2-Chloroet...		1.389	1.311	1.360	1.337	1.440	1.440	1.328	1.372	3.83
12)		1,3-Dichlorobe...		1.591	1.515	1.526	1.473	1.575	1.556	1.469	1.529	3.13
13)	C	1,4-Dichlorobe...		1.613	1.509	1.536	1.508	1.601	1.579	1.484	1.547	3.27
14)		1,2-Dichlorobe...		1.562	1.451	1.490	1.455	1.551	1.538	1.445	1.499	3.39
15)		Benzyl Alcohol			1.130	1.229	1.244	1.359	1.381	1.268	1.269	7.25
16)		2,2'-oxybis(1-...		2.272	2.091	2.159	2.107	2.251	2.258	2.033	2.167	4.37
17)		2-Methylphenol		1.093	1.085	1.156	1.176	1.253	1.264	1.175	1.172	5.95
18)		Hexachloroethane		0.563	0.532	0.540	0.540	0.572	0.577	0.550	0.553	3.17
19)	P	n-Nitroso-di-n...	0.989	1.103	1.026	1.062	1.080	1.146	1.171	1.024	1.075	5.84
20)		3+4-Methylphenols			1.447	1.566	1.587	1.713	1.754	1.613	1.613	6.80
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.524	0.498	0.510	0.493	0.517	0.501	0.472	0.502	3.44
23)	S	Nitrobenzene-d5	0.300	0.324	0.334	0.375	0.374	0.407	0.394	0.379	0.361	10.24
24)		Nitrobenzene		0.311	0.312	0.347	0.344	0.373	0.359	0.346	0.342	6.69
25)		Isophorone		0.727	0.682	0.702	0.713	0.759	0.756	0.691	0.719	4.22
26)	C	2-Nitrophenol		0.082	0.085	0.115	0.128	0.149	0.156	0.163	0.126	26.35
27)		2,4-Dimethylph...		0.380	0.319	0.308	0.324	0.342	0.335	0.311	0.331	7.40
28)		bis(2-Chloroet...		0.457	0.415	0.437	0.431	0.457	0.450	0.413	0.437	4.28
29)	C	2,4-Dichloroph...		0.249	0.259	0.293	0.296	0.317	0.315	0.300	0.290	9.05
30)		1,2,4-Trichlor...		0.328	0.312	0.324	0.312	0.334	0.321	0.309	0.320	2.92
31)		Naphthalene		1.093	1.014	1.044	1.017	1.075	1.049	0.977	1.038	3.77
32)		Benzoic acid			0.070	0.127	0.169	0.191	0.217	0.233	0.168	36.22
33)		4-Chloroaniline		0.449	0.435	0.460	0.459	0.495	0.482	0.453	0.462	4.41
34)	C	Hexachlorobuta...		0.191	0.178	0.185	0.180	0.188	0.185	0.180	0.184	2.60
35)		Caprolactam			0.095	0.105	0.115	0.122	0.124	0.113	0.113	9.54
36)	C	4-Chloro-3-met...		0.310	0.303	0.327	0.341	0.368	0.363	0.338	0.336	7.31
37)		2-Methylnaphth...		0.697	0.653	0.665	0.656	0.701	0.688	0.644	0.672	3.41
38)		1-Methylnaphth...		0.742	0.683	0.703	0.684	0.739	0.706	0.650	0.701	4.63

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...		0.551	0.530	0.564	0.547	0.557	0.542	0.532	0.546	2.32
41)	P	Hexachlorocycl...			0.291	0.324	0.331	0.358	0.355	0.363	0.337	8.13
42)	S	2,4,6-Tribromo...	0.151	0.171	0.182	0.210	0.212	0.229	0.225	0.215	0.200	14.11
43)	C	2,4,6-Trichlor...		0.279	0.301	0.359	0.367	0.395	0.386	0.383	0.353	12.75
44)		2,4,5-Trichlor...		0.310	0.342	0.408	0.412	0.437	0.438	0.423	0.396	12.56
45)	S	2-Fluorobiphenyl	1.502	1.551	1.453	1.479	1.444	1.464	1.389	1.303	1.448	5.17
46)		1,1'-Biphenyl		1.518	1.461	1.524	1.449	1.517	1.454	1.395	1.474	3.26
47)		2-Chloronaphth...		1.138	1.098	1.157	1.106	1.159	1.124	1.089	1.124	2.50
48)		2-Nitroaniline		0.187	0.212	0.287	0.308	0.344	0.341	0.337	0.288	22.33
49)		Acenaphthylene		1.859	1.841	1.901	1.868	1.971	1.890	1.800	1.876	2.86
50)		Dimethylphthalate		1.522	1.403	1.470	1.431	1.532	1.474	1.373	1.458	4.05
51)		2,6-Dinitrotol...		0.178	0.217	0.278	0.287	0.308	0.309	0.304	0.269	19.03
52)	C	Acenaphthene		1.164	1.120	1.156	1.114	1.201	1.147	1.107	1.144	2.92
53)		3-Nitroaniline		0.217	0.256	0.317	0.333	0.362	0.360	0.359	0.315	18.17
54)	P	2,4-Dinitrophenol			0.059	0.080	0.095	0.117	0.129	0.149	0.105	31.45
55)		Dibenzofuran		1.804	1.711	1.735	1.681	1.762	1.700	1.574	1.710	4.25
56)	P	4-Nitrophenol			0.199	0.270	0.284	0.308	0.308	0.298	0.278	14.89
57)		2,4-Dinitrotol...		0.213	0.257	0.361	0.390	0.431	0.432	0.430	0.359	25.01
58)		Fluorene		1.500	1.398	1.379	1.316	1.360	1.284	1.163	1.343	7.79
59)		2,3,4,6-Tetrac...		0.262	0.286	0.339	0.344	0.366	0.366	0.351	0.331	12.26
60)		Diethylphthalate		1.518	1.416	1.498	1.440	1.528	1.508	1.381	1.470	3.91
61)		4-Chlorophenyl...		0.722	0.638	0.651	0.631	0.642	0.614	0.558	0.637	7.67
62)		4-Nitroaniline		0.227	0.263	0.324	0.338	0.348	0.344	0.339	0.312	15.24
63)		Azobenzene		1.412	1.340	1.375	1.351	1.400	1.376	1.306	1.366	2.67
64)	I	Phenanthrene-d10	----------ISTD----------									
65)		4,6-Dinitro-2-...			0.041	0.063	0.075	0.093	0.102	0.107	0.080	31.69
66)	c	n-Nitrosodiphe...		0.606	0.601	0.618	0.605	0.638	0.624	0.572	0.609	3.40
67)		4-Bromophenyl-...		0.200	0.194	0.202	0.199	0.211	0.208	0.194	0.201	3.31
68)		Hexachlorobenzene		0.232	0.222	0.224	0.220	0.233	0.231	0.218	0.226	2.78
69)		Atrazine		0.201	0.199	0.218	0.212	0.231	0.229	0.209	0.214	5.78
70)	C	Pentachlorophenol			0.104	0.139	0.144	0.161	0.160	0.156	0.144	14.88
71)		Phenanthrene		1.161	1.101	1.097	1.073	1.132	1.097	1.007	1.095	4.40
72)		Anthracene		1.104	1.093	1.129	1.095	1.151	1.143	1.017	1.105	4.08
73)		Carbazole		1.062	1.069	1.086	1.052	1.101	1.067	0.985	1.060	3.46
74)		Di-n-butylphth...		1.198	1.188	1.337	1.290	1.376	1.369	1.221	1.283	6.30
75)	C	Fluoranthene		1.321	1.288	1.291	1.252	1.314	1.268	1.143	1.268	4.74
76)	I	Chrysene-d12	----------ISTD----------									
77)		Benzidine			0.668	0.762	0.970	0.726	0.642	0.574	0.724	18.96
78)		Pyrene		1.321	1.314	1.350	1.289	1.406	1.348	1.282	1.330	3.21
79)	S	Terphenyl-d14	1.060	1.140	1.083	1.096	1.046	1.082	1.017	0.947	1.059	5.47
80)		Butylbenzylpht...		0.399	0.413	0.554	0.565	0.627	0.631	0.586	0.539	17.70
81)		Benzo(a)anthra...		1.346	1.308	1.357	1.302	1.382	1.349	1.260	1.329	3.11
82)		3,3'-Dichlorob...			0.414	0.484	0.473	0.501	0.481	0.461	0.469	6.39
83)		Chrysene		1.257	1.193	1.257	1.217	1.289	1.250	1.165	1.233	3.49
84)		Bis(2-ethylhex...		0.735	0.713	0.903	0.892	0.939	0.965	0.882	0.861	11.39
85)	c	Di-n-octyl pht...			1.011	1.434	1.502	1.543	1.634	1.526	1.442	15.32

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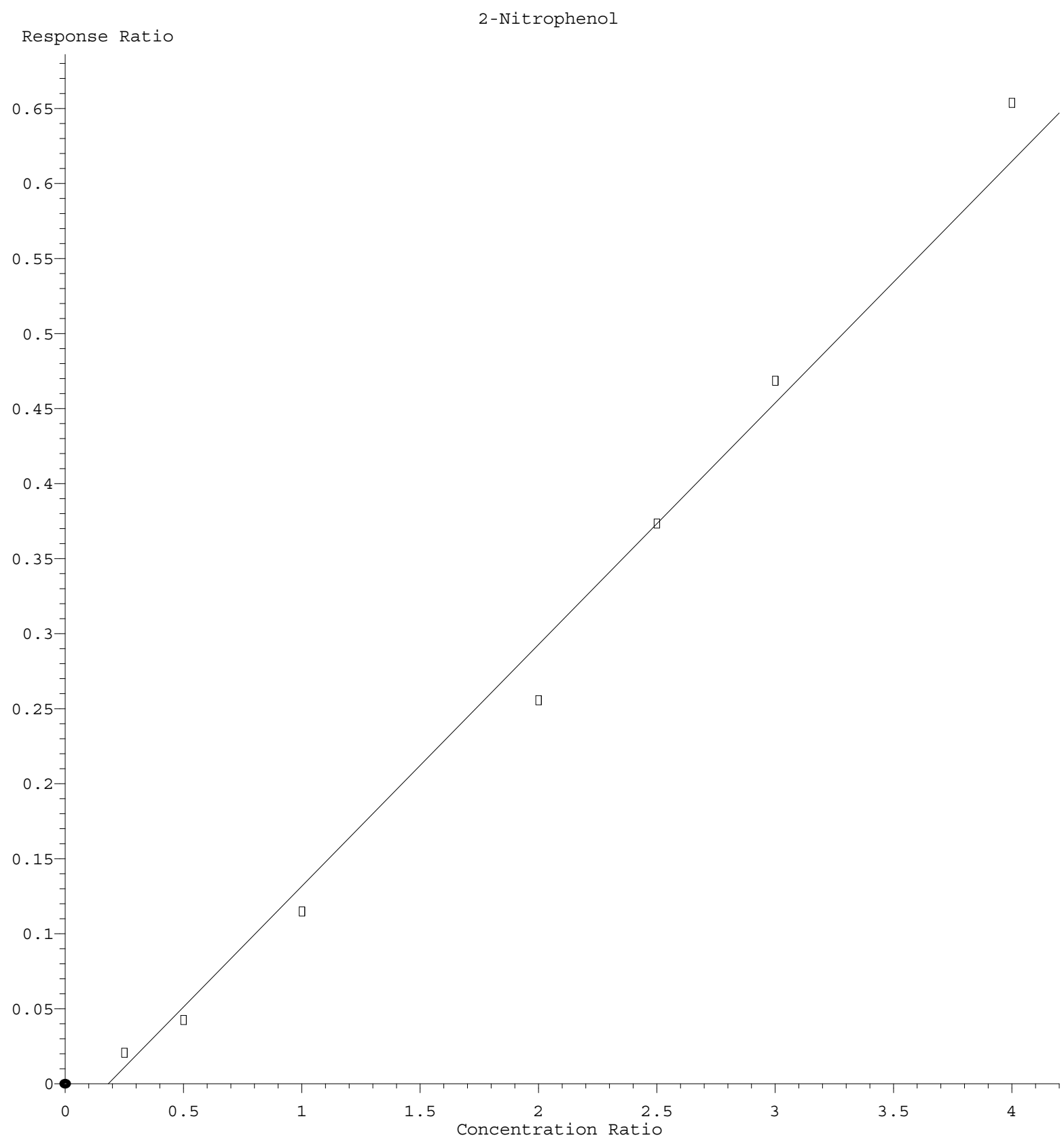
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.374	1.302	1.436	1.443	1.546	1.494	1.440	1.434	5.50
88)		Benzo(b)fluora...	1.182	1.151	1.194	1.179	1.290	1.217	1.168	1.197	3.82
89)		Benzo(k)fluora...	1.191	1.145	1.189	1.171	1.264	1.210	1.139	1.187	3.56
90)	C	Benzo(a)pyrene	1.116	1.108	1.148	1.151	1.229	1.190	1.129	1.153	3.74
91)		Dibenzo(a,h)an...	1.135	1.077	1.166	1.185	1.261	1.219	1.175	1.174	5.02
92)		Benzo(g,h,i)pe...	1.126	1.051	1.149	1.153	1.243	1.186	1.157	1.152	5.04

(#) = Out of Range



Response = 1.611e-001 * Amt - 2.930e-002
Coef of Det (r^2) = 0.990043 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP080525.M
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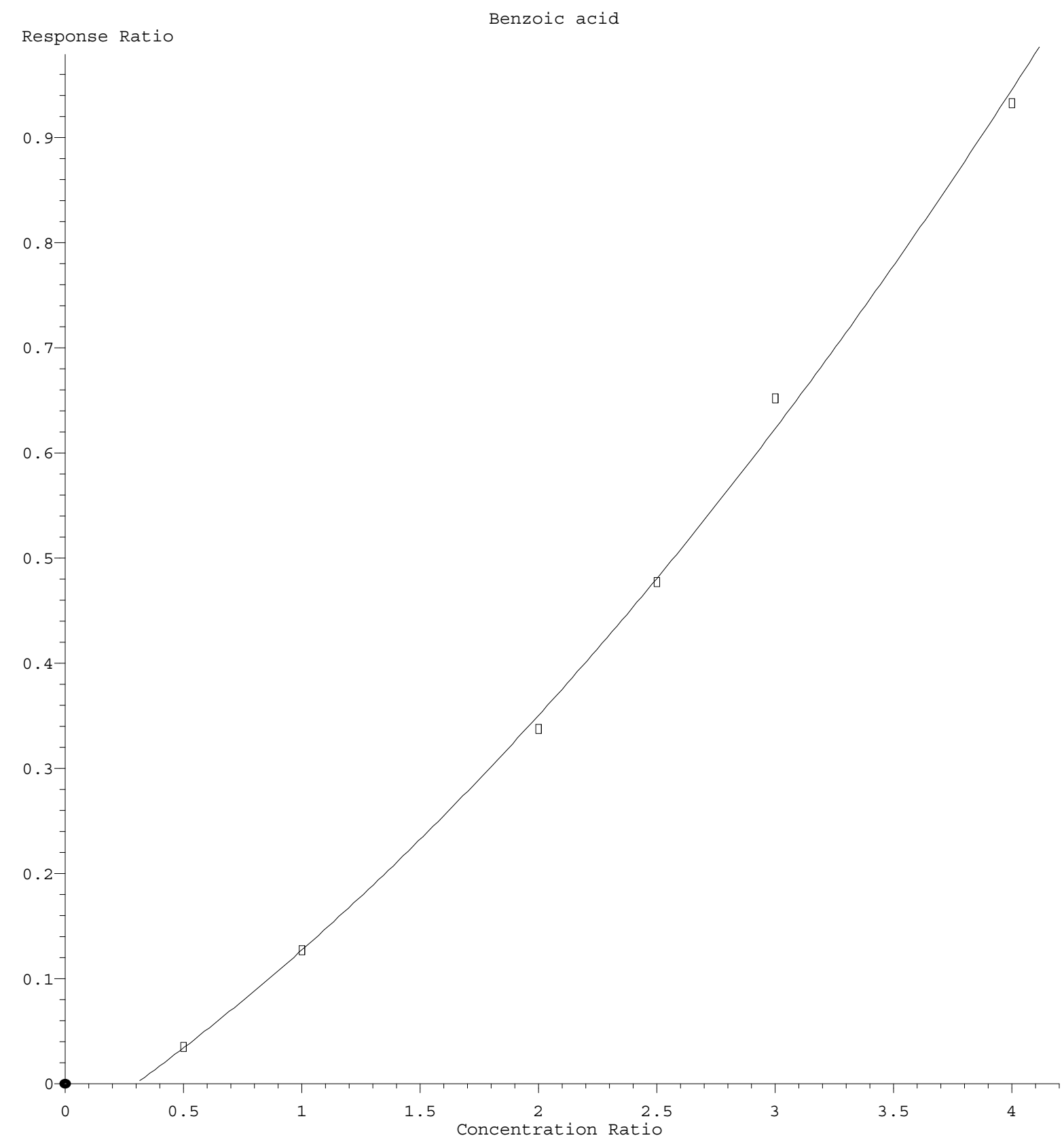

R = 2.477e-002 A*A + 1.489e-001 A - 4.651e-002
Coef of Det (r^2) = 0.998646 Curve Fit: Quadratic w(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP080525.M
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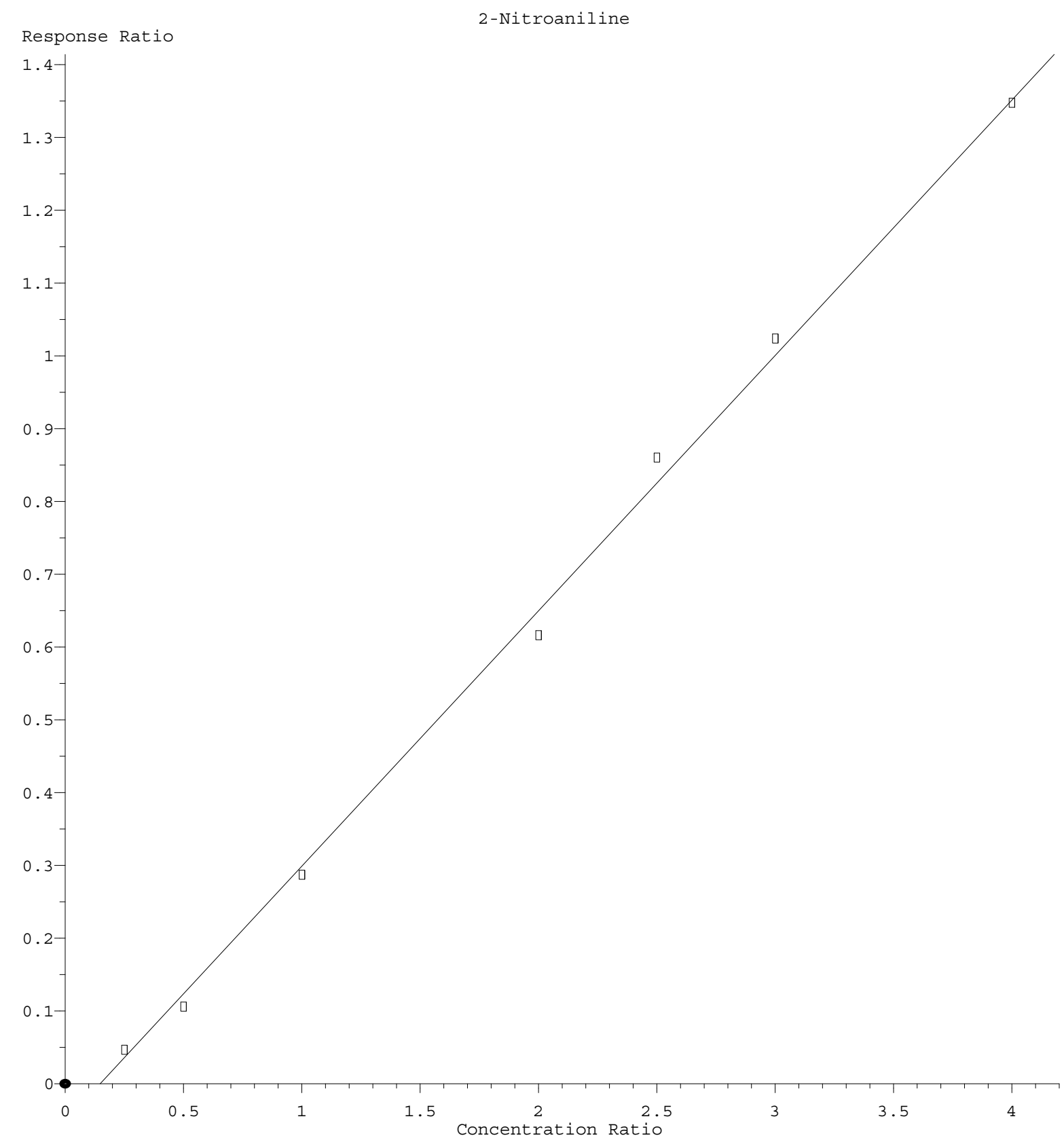

Response = 3.511e-001 * Amt - 5.203e-002
Coef of Det (r^2) = 0.997329 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP080525.M
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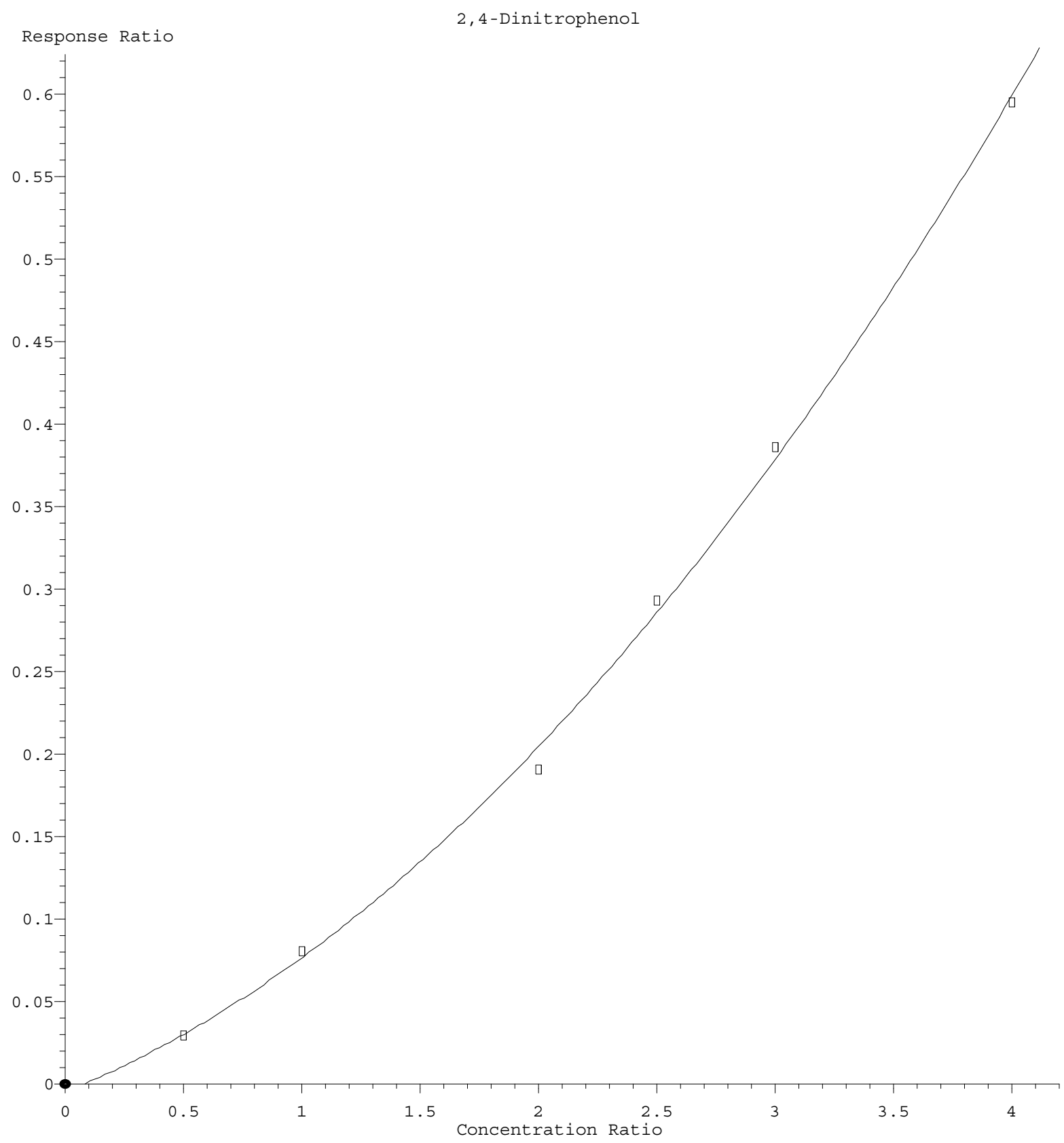

R = 2.317e-002 A*A + 5.829e-002 A - 4.826e-003
Coef of Det (r^2) = 0.998598 Curve Fit: Quadratic w(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP080525.M
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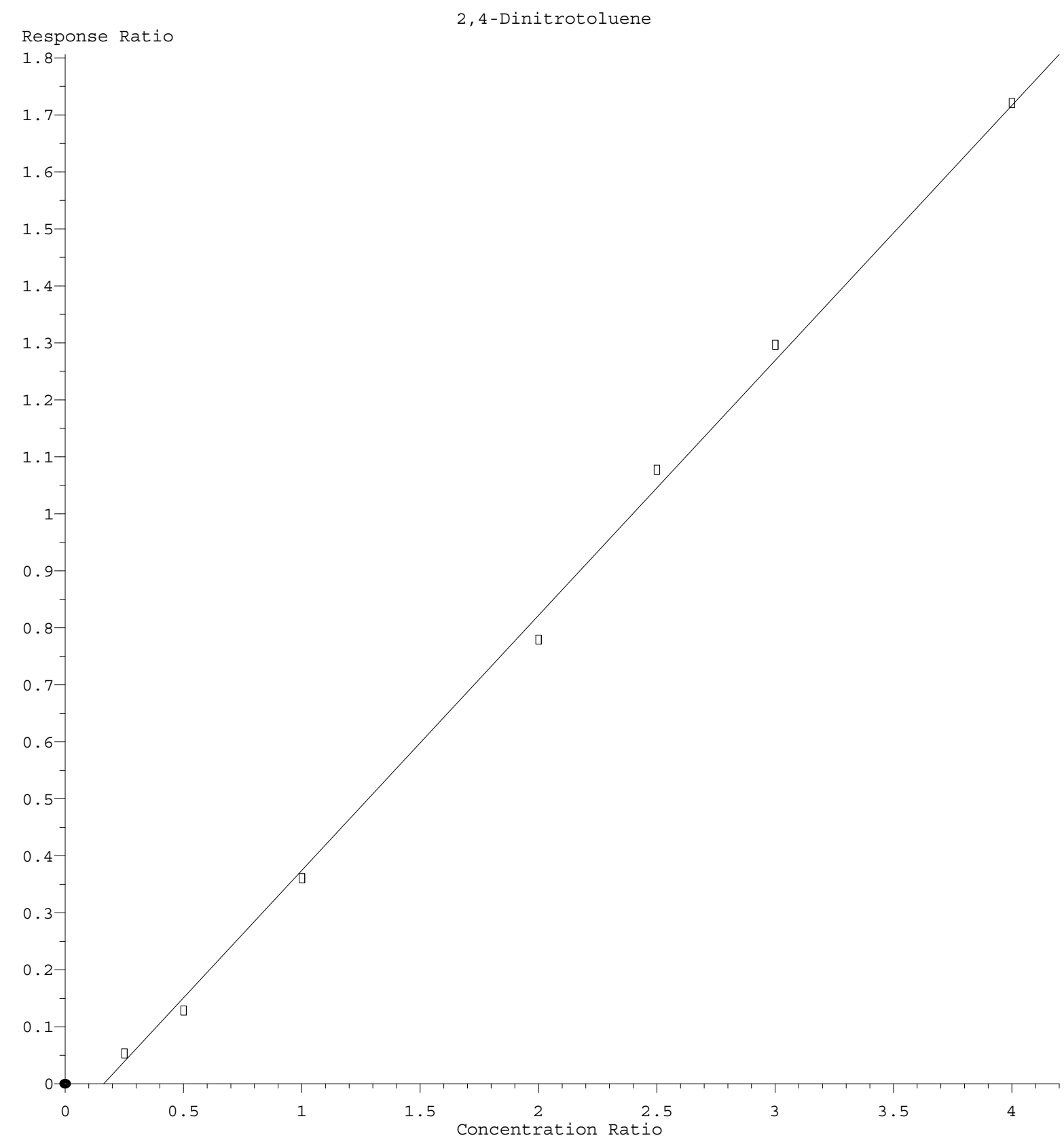

Response = 4.472e-001 * Amt - 7.278e-002
Coef of Det (r^2) = 0.997623 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP080525.M
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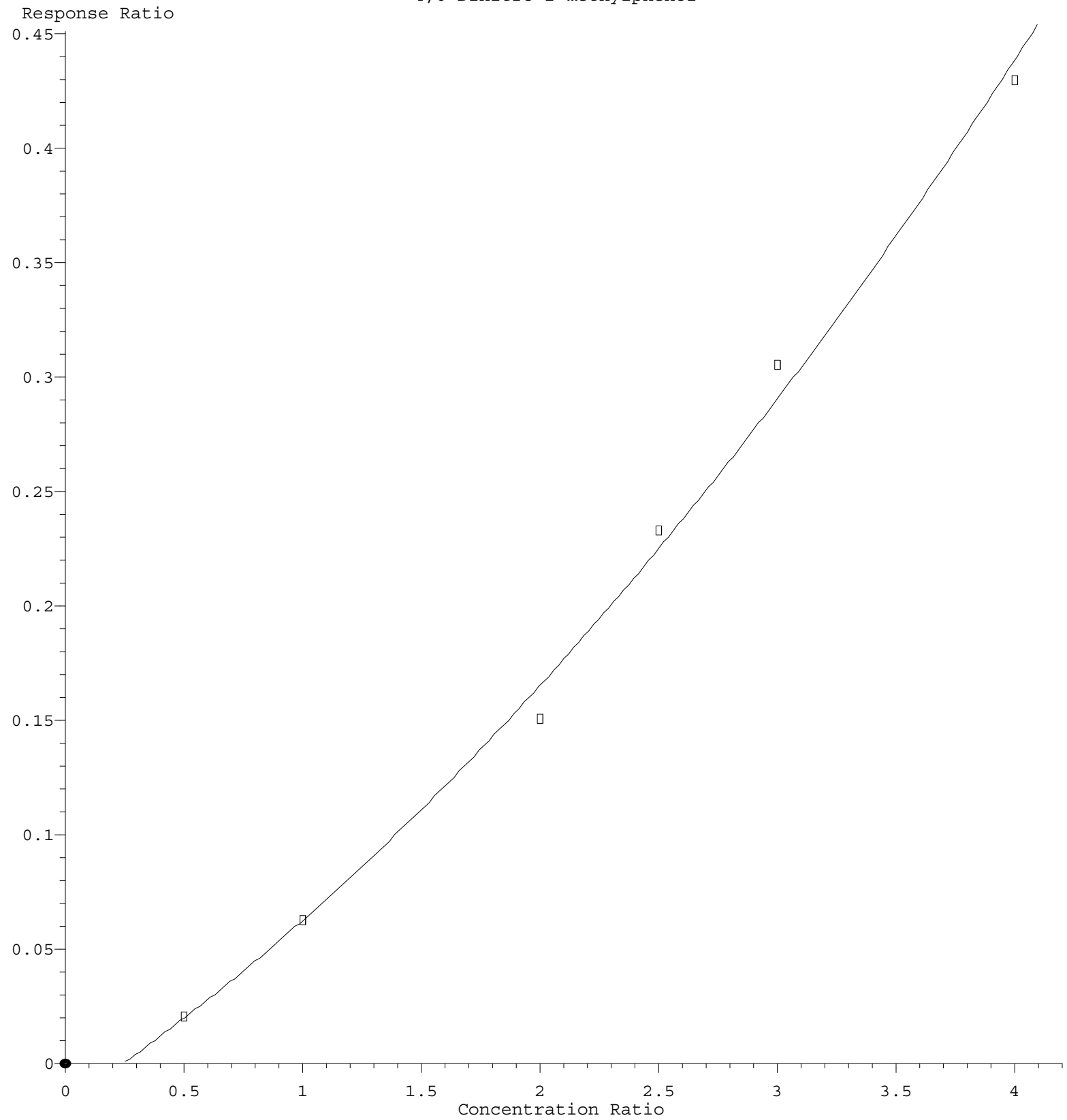
4,6-Dinitro-2-methylphenol



R = 1.136e-002 A*A + 6.849e-002 A - 1.722e-002
Coef of Det (r^2) = 0.996451 Curve Fit: Quadratic w(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP080525.M
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