Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 02 02:20:34 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF134536.D 5 =BF134537.D 10 =BF134538.D 20 =BF134539.D 40 =BF134540.D 50 =BF134541.D 60 =BF134542.D 80 =BF1345
43.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.641	0.648	0.649	0.606	0.573	0.576	0.546	0.605	6.88
3)		Pyridine		1.765	1.756	1.759	1.627	1.547	1.536	1.492	1.640	7.24
4)		n-Nitrosodimet...		0.798	0.821	0.837	0.792	0.759	0.761	0.719	0.784	5.20
5)	S	2-Fluorophenol		1.494	1.480	1.472	1.302	1.202	1.172	1.088	1.316	12.75
6)		Aniline		2.431	2.372	2.389	2.189	2.069	2.071	1.921	2.206	8.88
7)	S	Phenol-d6		1.904	1.907	1.855	1.660	1.535	1.531	1.382	1.682	12.49
8)		2-Chlorophenol		1.482	1.455	1.482	1.331	1.227	1.215	1.098	1.327	11.49
9)		Benzaldehyde		1.196	1.107	0.999	0.805	0.726	0.667		0.917	23.50
10)	C	Phenol		1.866	1.816	1.836	1.679	1.520	1.528	1.356	1.657	11.75
11)		bis(2-Chloroet...		1.482	1.460	1.439	1.305	1.220	1.211	1.100	1.317	11.22
12)		1,3-Dichlorobe...		1.572	1.529	1.504	1.362	1.249	1.252	1.144	1.373	12.03
13)	C	1,4-Dichlorobe...		1.581	1.544	1.513	1.372	1.256	1.240	1.128	1.376	12.70
14)		1,2-Dichlorobe...		1.509	1.471	1.448	1.273	1.155	1.120	1.002	1.282	15.45
15)		Benzyl Alcohol		1.307	1.317	1.316	1.169	1.065	1.032	0.916	1.160	13.89
16)		2,2'-oxybis(1-...		2.306	2.246	2.249	2.054	1.917	1.908	1.760	2.063	10.18
17)		2-Methylphenol		1.271	1.274	1.267	1.169	1.101	1.099	1.028	1.173	8.55
18)		Hexachloroethane		0.519	0.514	0.534	0.480	0.456	0.459	0.418	0.483	8.58
19)	P	n-Nitroso-di-n...	1.139	1.113	1.108	1.075	0.978	0.908	0.897	0.838	1.007	11.54
20)		3+4-Methylphenols		1.661	1.662	1.622	1.425	1.258	1.212	1.061	1.414	17.20
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.542	0.533	0.514	0.455	0.410	0.410	0.369	0.462	14.82
23)	S	Nitrobenzene-d5		0.258	0.304	0.343	0.341	0.331	0.339	0.324	0.320	9.53
24)		Nitrobenzene		0.299	0.346	0.374	0.364	0.346	0.359	0.331	0.346	7.26
25)		Isophorone		0.744	0.732	0.736	0.690	0.655	0.677	0.652	0.698	5.58
26)	C	2-Nitrophenol		0.065	0.086	0.116	0.138	0.143	0.155	0.155	0.122	28.81
27)		2,4-Dimethylph...		0.330	0.335	0.336	0.307	0.294	0.292	0.285	0.311	7.10
28)		bis(2-Chloroet...		0.449	0.449	0.455	0.411	0.390	0.397	0.371	0.418	8.11
29)	C	2,4-Dichloroph...		0.285	0.292	0.302	0.289	0.273	0.277	0.261	0.283	4.84
30)		1,2,4-Trichlor...		0.326	0.322	0.324	0.301	0.284	0.287	0.265	0.301	7.86
31)		Naphthalene		1.121	1.122	1.102	1.010	0.921	0.919	0.841	1.005	11.32
32)		Benzoic acid			0.097	0.145	0.177	0.199	0.219	0.221	0.176	27.31
33)		4-Chloroaniline		0.481	0.475	0.479	0.443	0.415	0.432	0.409	0.448	6.86
34)	C	Hexachlorobuta...		0.191	0.186	0.188	0.174	0.162	0.164	0.152	0.174	8.64
35)		Caprolactam		0.083	0.090	0.094	0.095	0.090	0.095	0.090	0.091	4.47
36)	C	4-Chloro-3-met...		0.307	0.311	0.323	0.302	0.286	0.293	0.275	0.299	5.41
37)		2-Methylnaphth...		0.760	0.749	0.743	0.657	0.613	0.604	0.538	0.666	12.96
38)		1-Methylnaphth...		0.703	0.683	0.684	0.618	0.564	0.571	0.514	0.620	11.74

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.644	0.652	0.630	0.585	0.526	0.542	0.492	0.582	10.82
41)	P	Hexachlorocycl...	0.247	0.271	0.296	0.306	0.288	0.289	0.283	0.283	6.79
42)	S	2,4,6-Tribromo...	0.180	0.209	0.222	0.216	0.198	0.206	0.197	0.204	6.76
43)	C	2,4,6-Trichlor...	0.367	0.386	0.409	0.391	0.370	0.385	0.357	0.381	4.59
44)		2,4,5-Trichlor...	0.430	0.457	0.464	0.451	0.410	0.428	0.405	0.435	5.28
45)	S	2-Fluorobiphenyl		1.533	1.418	1.220	1.048	1.061	0.937	1.203	19.34
46)		1,1'-Biphenyl	1.803	1.771	1.705	1.564	1.391	1.395	1.257	1.555	13.68
47)		2-Chloronaphth...	1.293	1.303	1.266	1.173	1.060	1.076	0.986	1.165	10.89
48)		2-Nitroaniline	0.172	0.245	0.327	0.362	0.354	0.380	0.371	0.316	24.66
49)		Acenaphthylene	2.038	2.049	2.008	1.845	1.671	1.689	1.522	1.832	11.43
50)		Dimethylphthalate	1.472	1.477	1.458	1.372	1.252	1.301	1.211	1.363	8.12
51)		2,6-Dinitrotol...	0.144	0.205	0.262	0.281	0.275	0.289	0.282	0.248	21.79
52)	C	Acenaphthene	1.304	1.321	1.294	1.192	1.082	1.106	1.011	1.187	10.40
53)		3-Nitroaniline	0.193	0.266	0.317	0.342	0.323	0.347	0.339	0.304	18.36
54)	P	2,4-Dinitrophenol		0.038	0.056	0.077	0.090	0.105	0.109	0.079	35.42
55)		Dibenzofuran	1.906	1.888	1.851	1.737	1.527	1.532	1.388	1.690	12.25
56)	P	4-Nitrophenol		0.195	0.244	0.259	0.257	0.273	0.263	0.248	11.17
57)		2,4-Dinitrotol...	0.148	0.222	0.298	0.341	0.339	0.361	0.334	0.292	26.82
58)		Fluorene	1.479	1.477	1.390	1.205	1.054	1.066	0.947	1.231	17.77
59)		2,3,4,6-Tetrac...	0.323	0.354	0.366	0.359	0.341	0.342	0.324	0.344	4.79
60)		Diethylphthalate	1.389	1.411	1.396	1.321	1.186	1.221	1.122	1.292	8.96
61)		4-Chlorophenyl...	0.735	0.716	0.678	0.592	0.517	0.531	0.465	0.605	17.53
62)		4-Nitroaniline	0.197	0.259	0.307	0.333	0.322	0.340	0.327	0.298	17.38
63)		Azobenzene	1.515	1.538	1.502	1.405	1.274	1.302	1.181	1.388	9.99
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.034	0.054	0.071	0.078	0.088	0.089	0.069	31.15
66)	c	n-Nitrosodiphe...	0.693	0.707	0.695	0.641	0.582	0.595	0.543	0.637	10.14
67)		4-Bromophenyl-...	0.233	0.229	0.239	0.220	0.205	0.209	0.197	0.219	7.15
68)		Hexachlorobenzene	0.240	0.249	0.251	0.235	0.215	0.221	0.207	0.231	7.39
69)		Atrazine	0.185	0.194	0.191	0.171	0.160	0.153	0.147	0.172	11.01
70)	C	Pentachlorophenol	0.112	0.133	0.155	0.156	0.147	0.154	0.146	0.143	11.08
71)		Phenanthrene	1.205	1.194	1.177	1.072	0.953	0.960	0.876	1.062	12.66
72)		Anthracene	1.225	1.217	1.209	1.094	0.978	0.987	0.887	1.085	12.64
73)		Carbazole	1.071	1.070	1.067	0.978	0.887	0.893	0.815	0.969	10.87
74)		Di-n-butylphth...	1.053	1.103	1.155	1.066	0.955	0.980	0.894	1.029	8.84
75)	C	Fluoranthene	1.238	1.235	1.243	1.154	1.031	1.032	0.922	1.122	11.41
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.524	0.492	0.412	0.482	0.402	0.358	0.370	0.434	14.94
78)		Pyrene	1.617	1.671	1.726	1.747	1.733	1.824	1.797	1.731	4.08
79)	S	Terphenyl-d14	1.167	1.157	1.157	1.136	1.100	1.140	1.084	1.135	2.74
80)		Butylbenzylpht...	0.431	0.494	0.571	0.629	0.640	0.677	0.655	0.585	15.65
81)		Benzo(a)anthra...	1.457	1.472	1.482	1.451	1.371	1.425	1.352	1.430	3.52
82)		3,3'-Dichlorob...	0.417	0.438	0.438	0.417	0.400	0.409	0.383	0.415	4.77
83)		Chrysene	1.427	1.418	1.437	1.399	1.351	1.405	1.316	1.393	3.16
84)		Bis(2-ethylhex...	0.631	0.693	0.711	0.727	0.687	0.720	0.652	0.689	5.17
85)	c	Di-n-octyl pht...	0.877	0.956	1.042	1.103	1.062	1.196	1.095	1.047	9.94

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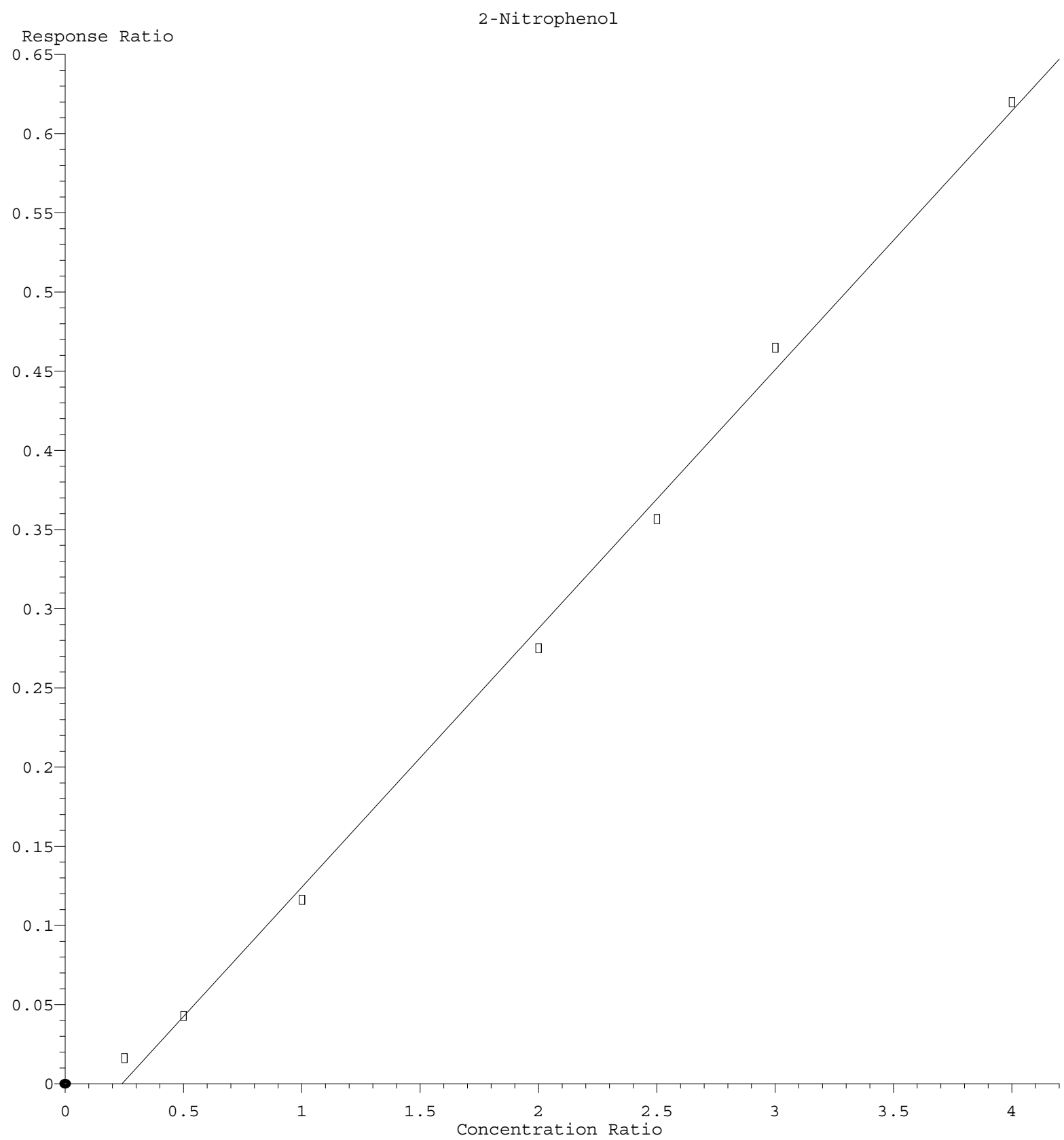
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.019	1.028	1.101	1.261	1.234	1.316	1.274	1.176	10.52
88)		Benzo(b)fluora...	1.270	1.271	1.358	1.210	1.129	1.183	1.117	1.220	7.07
89)		Benzo(k)fluora...	1.224	1.326	1.296	1.287	1.165	1.146	1.063	1.215	7.84
90)	C	Benzo(a)pyrene	1.124	1.179	1.178	1.174	1.099	1.133	1.075	1.137	3.65
91)		Dibenzo(a,h)an...	0.819	0.841	0.889	1.017	1.001	1.055	1.033	0.951	10.31
92)		Benzo(g,h,i)pe...	0.801	0.826	0.897	1.042	1.042	1.091	1.088	0.970	12.88

(#) = Out of Range



Response = 1.634e-001 * Amt - 3.916e-002
Coef of Det (r^2) = 0.997343 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
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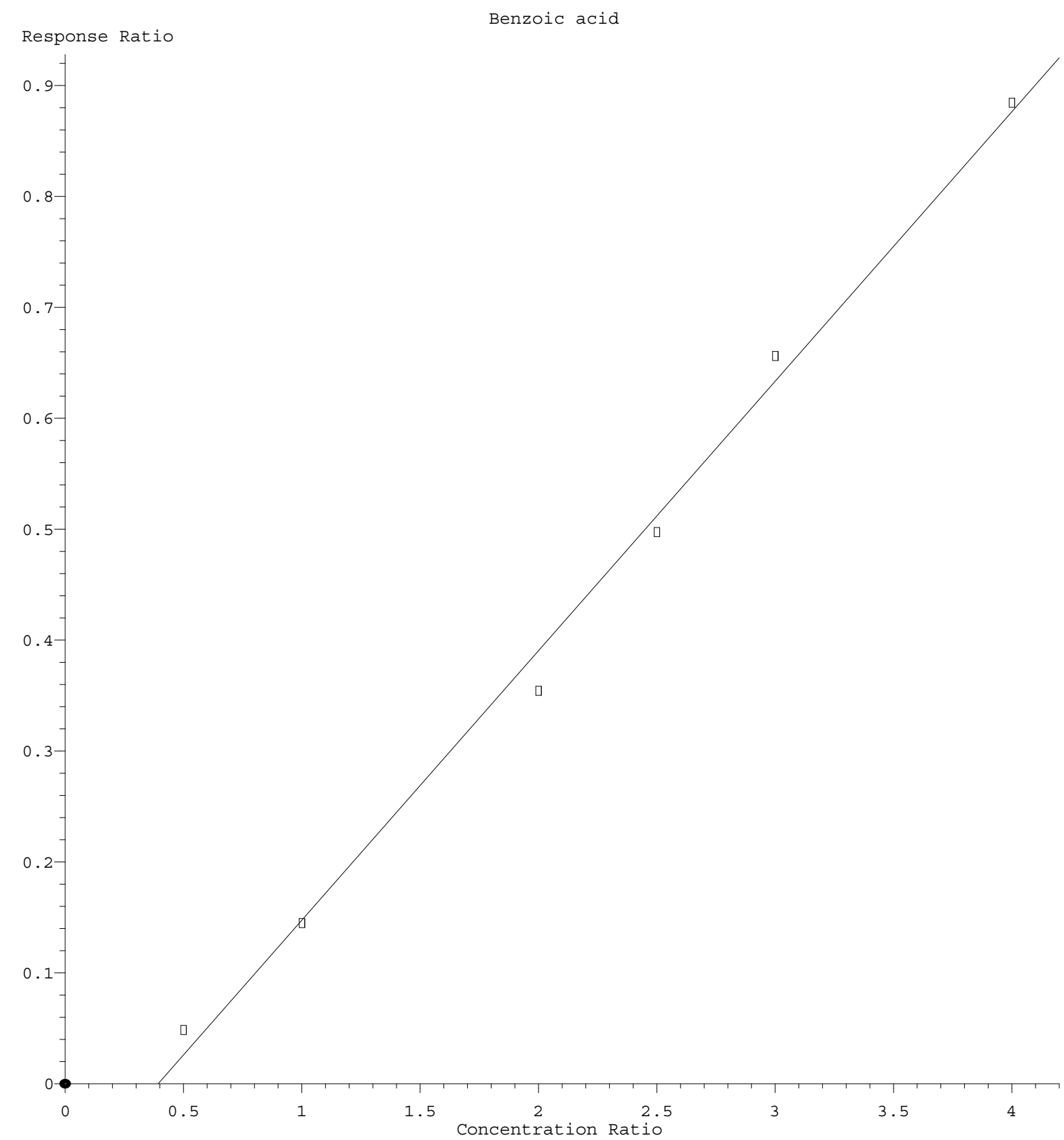

Response = 2.430e-001 * Amt - 9.558e-002
Coef of Det (r^2) = 0.994713 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
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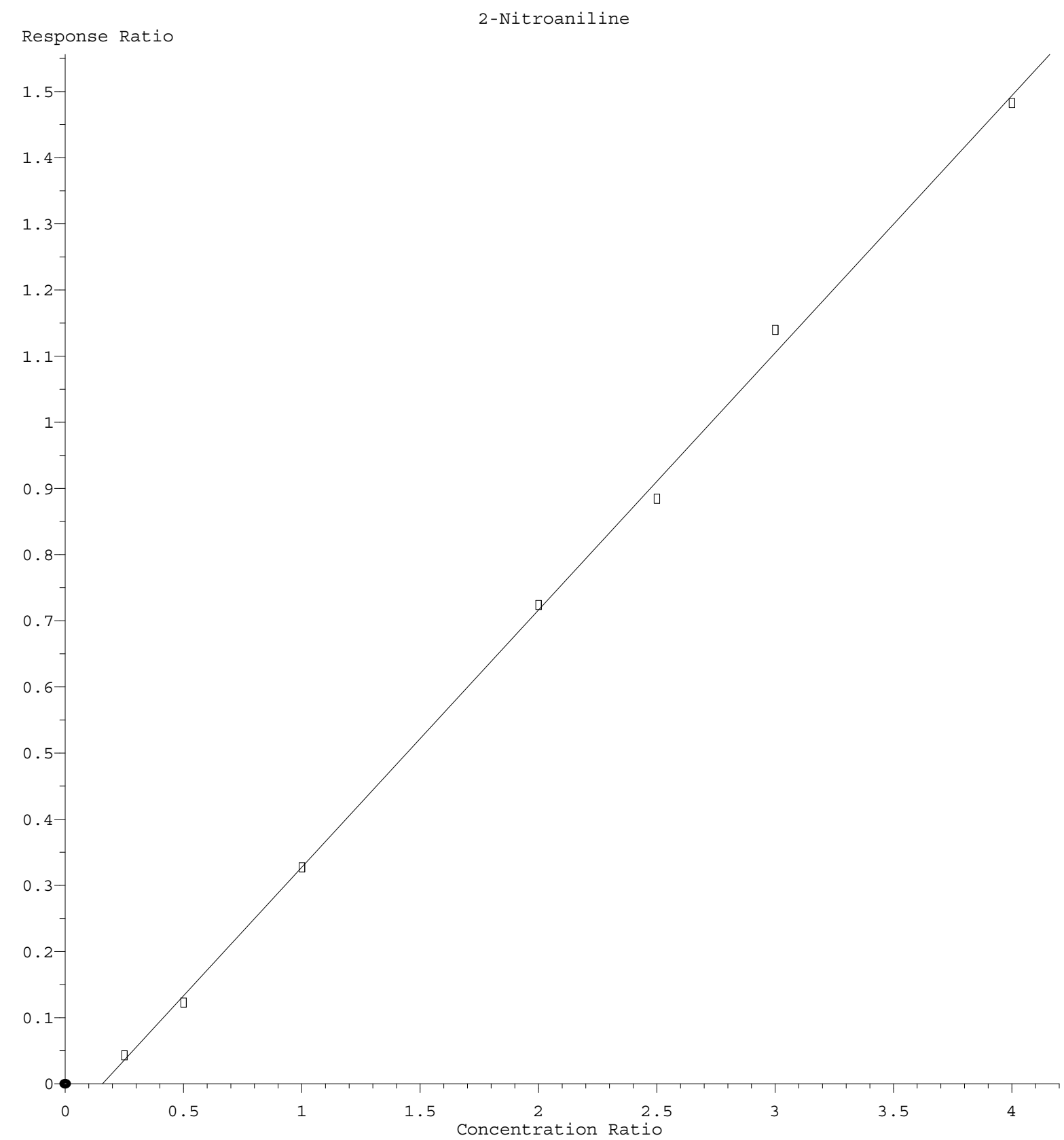

Response = 3.890e-001 * Amt - 6.158e-002
Coef of Det (r^2) = 0.998716 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
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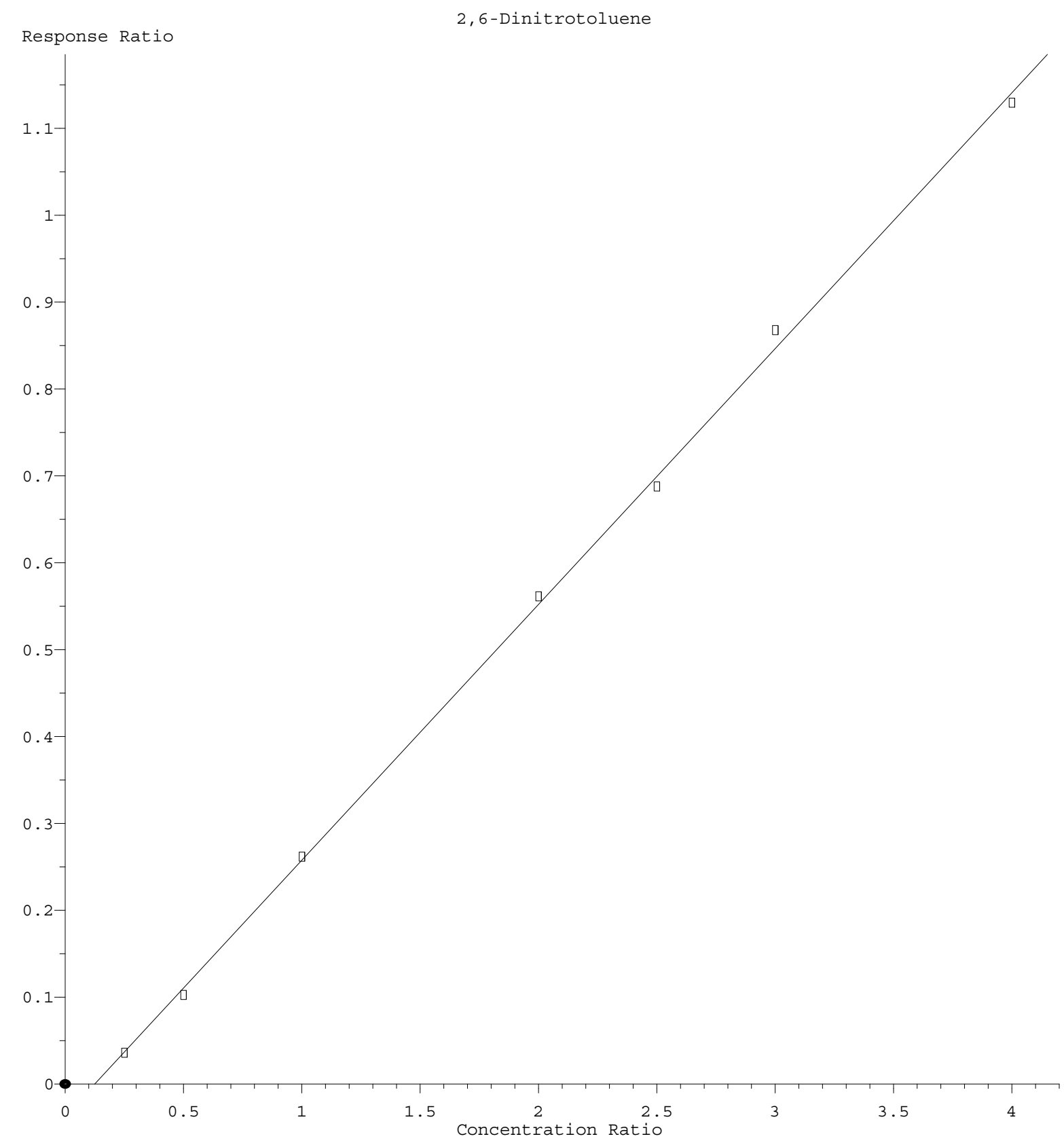

Response = 2.946e-001 * Amt - 3.676e-002
Coef of Det (r^2) = 0.999119 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
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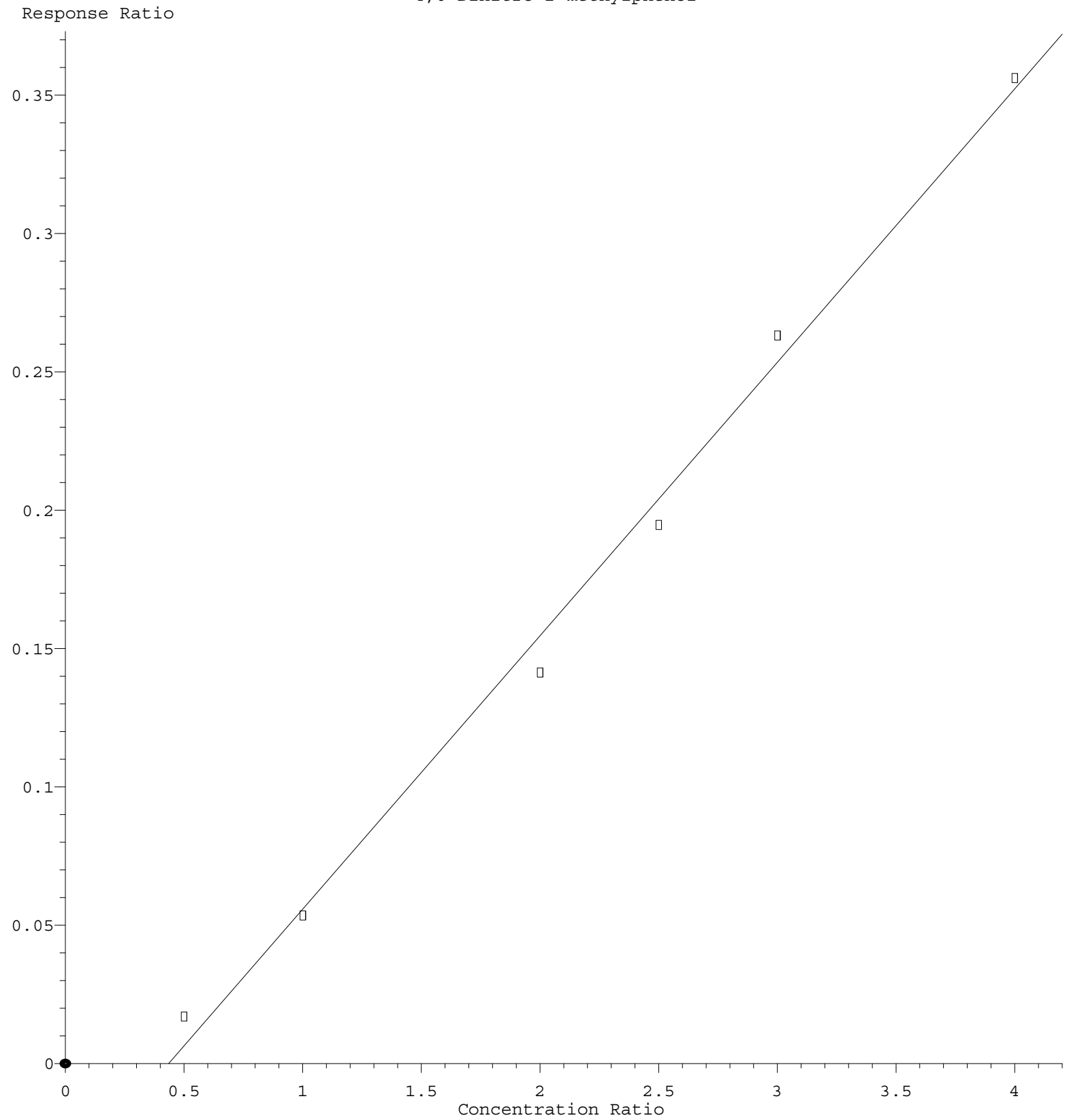
4,6-Dinitro-2-methylphenol



Response = 9.873e-002 * Amt - 4.294e-002
Coef of Det (r^2) = 0.993994 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
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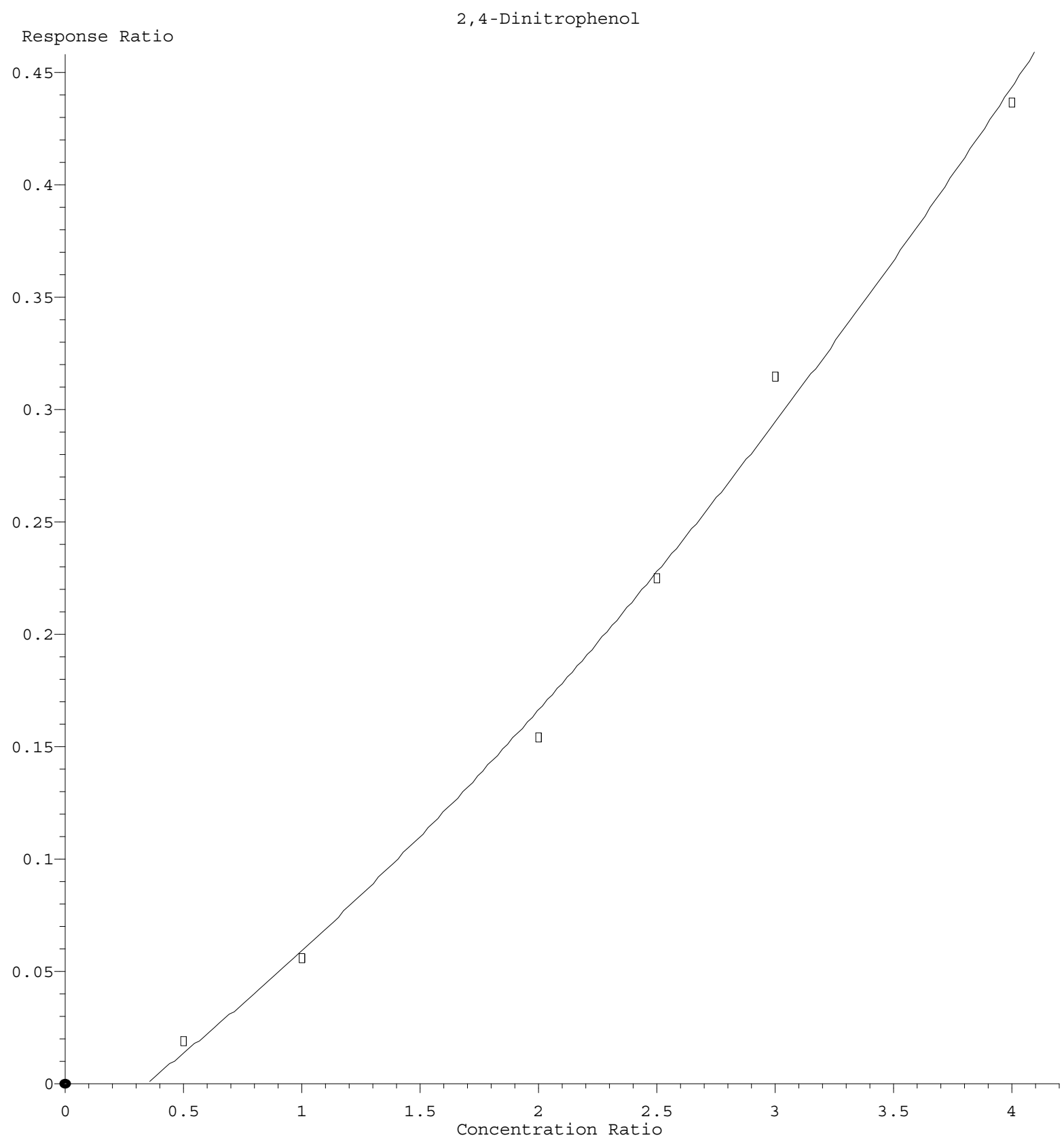

R = 1.051e-002 A*A + 7.557e-002 A - 2.683e-002
Coef of Det (r^2) = 0.994794 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
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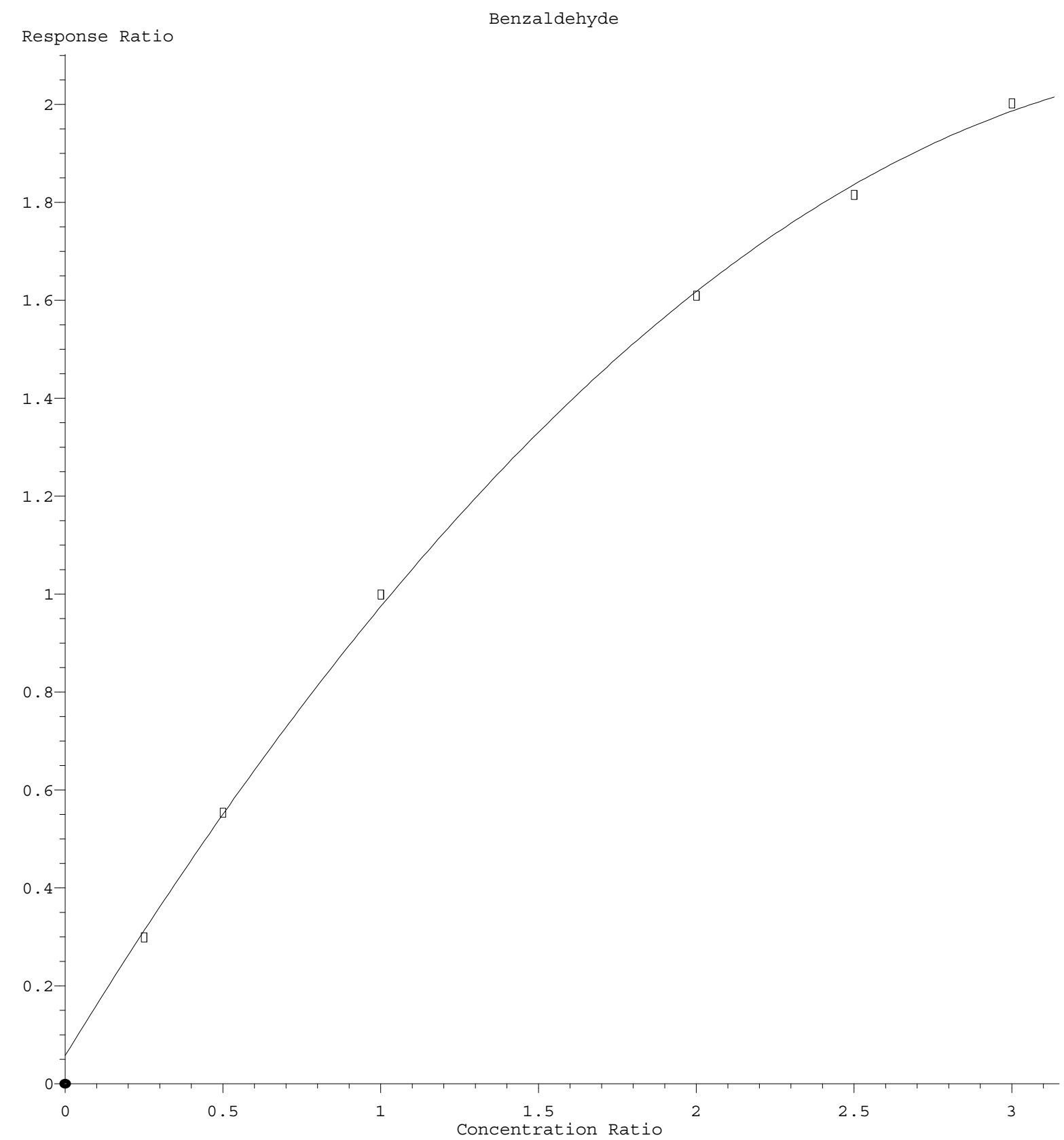

R = -1.371e-001 A*A + 1.054e+000 A + 5.754e-002
Coef of Det (r^2) = 0.999373 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
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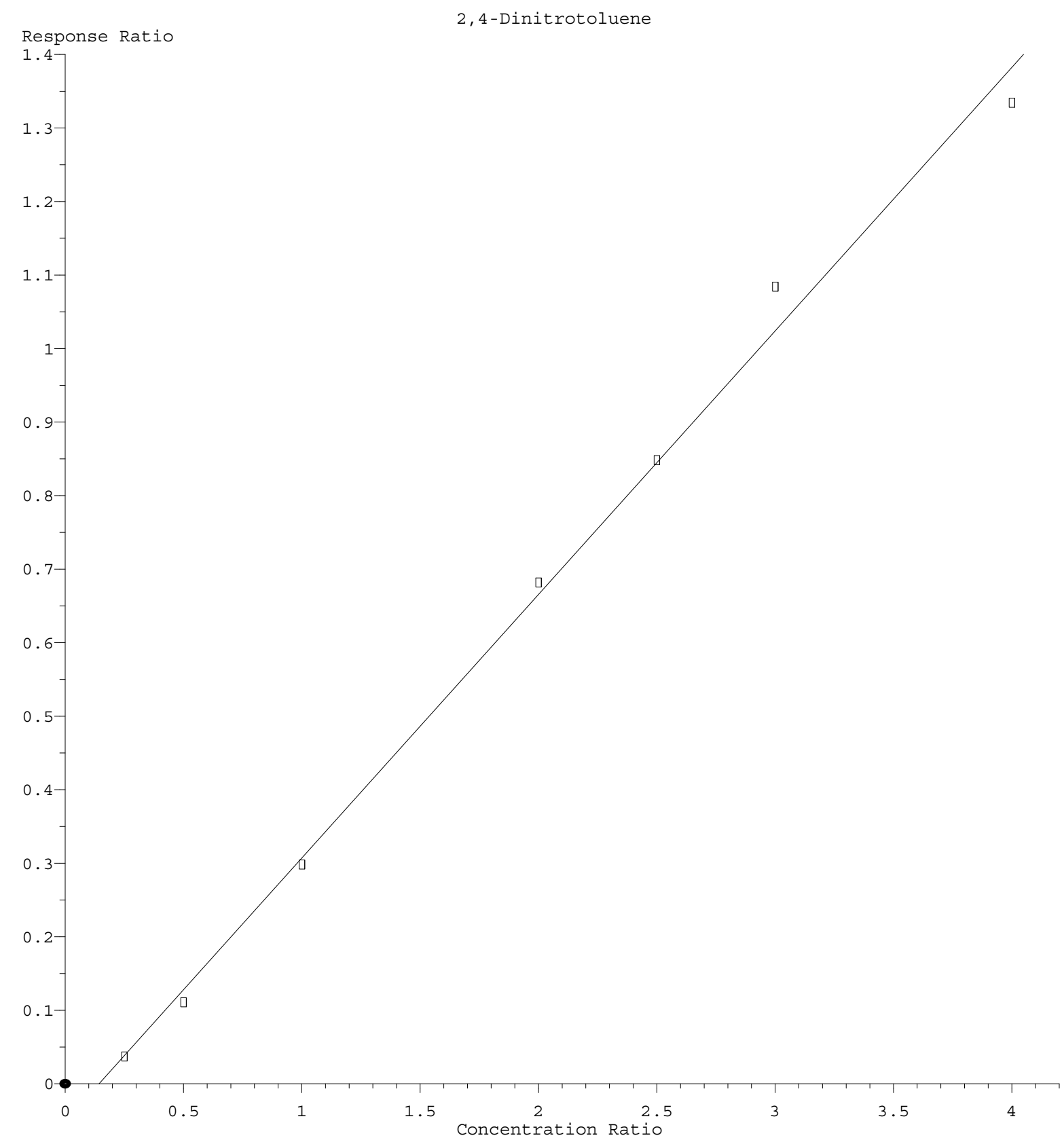

Response = 3.586e-001 * Amt - 5.112e-002
Coef of Det (r^2) = 0.995562 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
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