Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 24 03:53:23 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF137129.D 5 =BF137130.D 10 =BF137131.D 20 =BF137132.D 40 =BF137133.D 50 =BF137134.D 60 =BF137135.D 80 =BF1371
36.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.631	0.648	0.665	0.637	0.617	0.602	0.584	0.626	4.42
3)		Pyridine		1.351	1.489	1.565	1.532	1.484	1.453	1.426	1.471	4.79
4)		n-Nitrosodimet...		0.758	0.823	0.858	0.859	0.835	0.821	0.803	0.822	4.24
5)	S	2-Fluorophenol		1.270	1.380	1.412	1.323	1.250	1.208	1.156	1.286	7.12
6)		Aniline		1.940	2.081	2.172	2.104	1.991	1.928	1.849	2.009	5.68
7)	S	Phenol-d6		1.606	1.716	1.757	1.630	1.560	1.515	1.443	1.604	6.85
8)		2-Chlorophenol		1.286	1.429	1.521	1.480	1.435	1.401	1.341	1.413	5.66
9)		Benzaldehyde		0.875	0.945	0.976	0.917	0.872	0.831	0.754	0.881	8.43
10)	C	Phenol		1.893	2.000	2.080	1.919	1.820	1.736	1.623	1.867	8.34
11)		bis(2-Chloroet...		1.439	1.511	1.526	1.432	1.372	1.347	1.264	1.413	6.56
12)		1,3-Dichlorobe...		1.608	1.673	1.685	1.535	1.469	1.436	1.350	1.537	8.22
13)	C	1,4-Dichlorobe...		1.624	1.681	1.678	1.566	1.492	1.436	1.342	1.546	8.31
14)		1,2-Dichlorobe...		1.539	1.601	1.602	1.491	1.430	1.385	1.281	1.476	8.03
15)		Benzyl Alcohol		1.069	1.233	1.312	1.287	1.260	1.235	1.198	1.228	6.47
16)		2,2'-oxybis(1-...		2.552	2.628	2.666	2.462	2.316	2.211	2.064	2.414	9.32
17)		2-Methylphenol		1.135	1.204	1.251	1.175	1.131	1.110	1.067	1.153	5.33
18)		Hexachloroethane		0.511	0.569	0.585	0.576	0.556	0.541	0.516	0.551	5.27
19)	P	n-Nitroso-di-n...	1.026	0.990	1.091	1.117	1.048	1.015	0.988	0.949	1.028	5.41
20)		3+4-Methylphenols		1.481	1.513	1.560	1.422	1.324	1.269	1.165	1.391	10.28
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.520	0.550	0.546	0.482	0.451	0.456	0.418	0.489	10.39
23)	S	Nitrobenzene-d5			0.258	0.327	0.346	0.349	0.355	0.340	0.329	10.98
24)		Nitrobenzene		0.220	0.286	0.358	0.362	0.357	0.367	0.343	0.327	16.75
25)		Isophorone		0.691	0.715	0.746	0.703	0.682	0.690	0.662	0.698	3.84
26)	C	2-Nitrophenol		0.051	0.074	0.105	0.127	0.140	0.153	0.150	0.114	34.32#
27)		2,4-Dimethylph...		0.234	0.262	0.268	0.251	0.247	0.245	0.233	0.249	5.27
28)		bis(2-Chloroet...		0.439	0.458	0.468	0.428	0.410	0.407	0.383	0.428	7.01
29)	C	2,4-Dichloroph...		0.236	0.274	0.299	0.288	0.276	0.277	0.262	0.273	7.41
30)		1,2,4-Trichlor...		0.338	0.346	0.348	0.324	0.304	0.305	0.280	0.321	7.95
31)		Naphthalene		1.082	1.117	1.127	1.013	0.966	0.960	0.872	1.020	9.23
32)		Benzoic acid			0.093	0.125	0.157	0.184	0.205	0.210	0.162	28.69
33)		4-Chloroaniline		0.407	0.441	0.454	0.416	0.397	0.400	0.369	0.412	6.90
34)	C	Hexachlorobuta...		0.178	0.198	0.196	0.181	0.174	0.173	0.161	0.180	7.26
35)		Caprolactam		0.063	0.080	0.095	0.092	0.092	0.093	0.090	0.086	13.35
36)	C	4-Chloro-3-met...		0.285	0.312	0.331	0.312	0.302	0.301	0.287	0.304	5.23
37)		2-Methylnaphth...		0.695	0.721	0.730	0.650	0.616	0.612	0.560	0.655	9.65
38)		1-Methylnaphth...		0.661	0.662	0.678	0.606	0.577	0.567	0.517	0.610	9.82

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.630	0.654	0.652	0.589	0.555	0.542	0.499	0.589	10.08
41)	P	Hexachlorocycl...	0.199	0.230	0.267	0.283	0.277	0.276	0.269	0.257	12.04
42)	S	2,4,6-Tribromo...	0.131	0.158	0.187	0.193	0.188	0.187	0.177	0.174	12.70
43)	C	2,4,6-Trichlor...	0.294	0.351	0.392	0.384	0.382	0.375	0.350	0.361	9.37
44)		2,4,5-Trichlor...	0.321	0.380	0.420	0.420	0.399	0.402	0.376	0.388	8.80
45)	S	2-Fluorobiphenyl	1.534	1.520	1.455	1.276	1.188	1.153	1.042	1.310	14.88
46)		1,1'-Biphenyl	1.793	1.786	1.786	1.613	1.510	1.462	1.327	1.611	11.55
47)		2-Chloronaphth...	1.332	1.325	1.340	1.230	1.163	1.136	1.037	1.223	9.55
48)		2-Nitroaniline	0.149	0.211	0.296	0.355	0.366	0.379	0.366	0.303	29.69
49)		Acenaphthylene	2.015	2.065	2.080	1.924	1.846	1.756	1.599	1.898	9.33
50)		Dimethylphthalate	1.434	1.475	1.519	1.413	1.335	1.326	1.246	1.393	6.82
51)		2,6-Dinitrotol...	0.109	0.164	0.229	0.266	0.272	0.277	0.265	0.226	28.81
52)	C	Acenaphthene	1.257	1.260	1.271	1.201	1.130	1.115	1.024	1.180	7.91
53)		3-Nitroaniline	0.142	0.207	0.276	0.313	0.317	0.323	0.304	0.269	25.60
54)	P	2,4-Dinitrophenol		0.042	0.059	0.079	0.088	0.101	0.107	0.079	31.23
55)		Dibenzofuran	1.872	1.874	1.860	1.698	1.594	1.552	1.377	1.690	11.40
56)	P	4-Nitrophenol		0.155	0.211	0.246	0.248	0.257	0.241	0.226	16.98
57)		2,4-Dinitrotol...	0.126	0.180	0.267	0.325	0.341	0.359	0.335	0.276	32.64
58)		Fluorene	1.431	1.448	1.396	1.230	1.149	1.123	1.015	1.256	13.61
59)		2,3,4,6-Tetrac...	0.243	0.298	0.347	0.337	0.334	0.325	0.305	0.313	11.25
60)		Diethylphthalate	1.357	1.441	1.473	1.380	1.306	1.291	1.190	1.348	7.13
61)		4-Chlorophenyl...	0.712	0.704	0.675	0.593	0.553	0.539	0.485	0.609	14.64
62)		4-Nitroaniline	0.157	0.222	0.283	0.310	0.312	0.319	0.297	0.271	22.12
63)		Azobenzene	1.509	1.569	1.590	1.477	1.407	1.367	1.252	1.453	8.22
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.034	0.049	0.066	0.073	0.083	0.085	0.065	30.66
66)	c	n-Nitrosodiphe...	0.655	0.680	0.695	0.633	0.600	0.591	0.556	0.630	7.98
67)		4-Bromophenyl-...	0.209	0.220	0.225	0.213	0.200	0.198	0.185	0.207	6.56
68)		Hexachlorobenzene	0.241	0.247	0.256	0.233	0.224	0.220	0.207	0.233	7.34
69)		Atrazine	0.182	0.206	0.216	0.209	0.198	0.197	0.185	0.199	6.21
70)	C	Pentachlorophenol	0.077	0.108	0.133	0.143	0.140	0.143	0.139	0.126	19.81
71)		Phenanthrene	1.182	1.183	1.175	1.073	1.006	0.976	0.906	1.071	10.51
72)		Anthracene	1.172	1.202	1.208	1.088	1.026	1.014	0.916	1.090	10.15
73)		Carbazole	1.002	1.045	1.063	0.964	0.892	0.884	0.812	0.952	9.72
74)		Di-n-butylphth...	0.970	1.141	1.212	1.131	1.077	1.062	0.963	1.080	8.45
75)	C	Fluoranthene	1.123	1.193	1.193	1.079	1.004	0.984	0.880	1.065	10.89
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.472	0.614	0.722	0.718	0.714	0.707	0.658	15.15
78)		Pyrene	1.701	1.841	2.000	2.016	2.004	2.014	2.001	1.940	6.30
79)	S	Terphenyl-d14	1.333	1.393	1.442	1.408	1.415	1.397	1.402	1.399	2.38
80)		Butylbenzylpht...	0.370	0.504	0.637	0.735	0.751	0.764	0.756	0.645	23.80
81)		Benzo(a)anthra...	1.426	1.544	1.613	1.573	1.511	1.510	1.462	1.520	4.21
82)		3,3'-Dichlorob...	0.370	0.427	0.473	0.480	0.464	0.477	0.465	0.451	8.77
83)		Chrysene	1.397	1.455	1.541	1.504	1.468	1.477	1.401	1.463	3.56
84)		Bis(2-ethylhex...	0.525	0.690	0.841	0.902	0.891	0.915	0.893	0.808	18.17
85)	c	Di-n-octyl pht...		0.851	1.121	1.310	1.344	1.438	1.439	1.250	18.22

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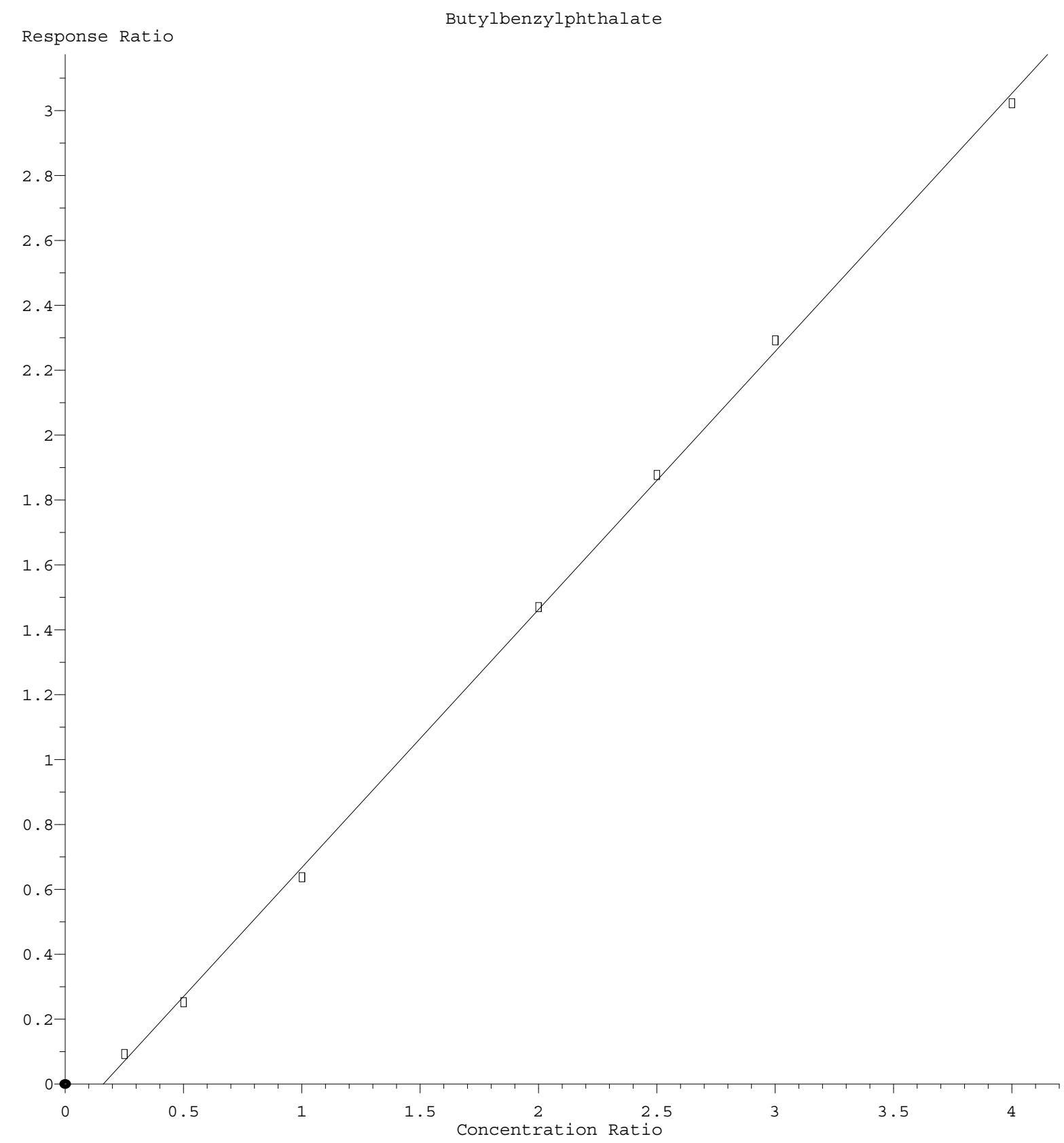
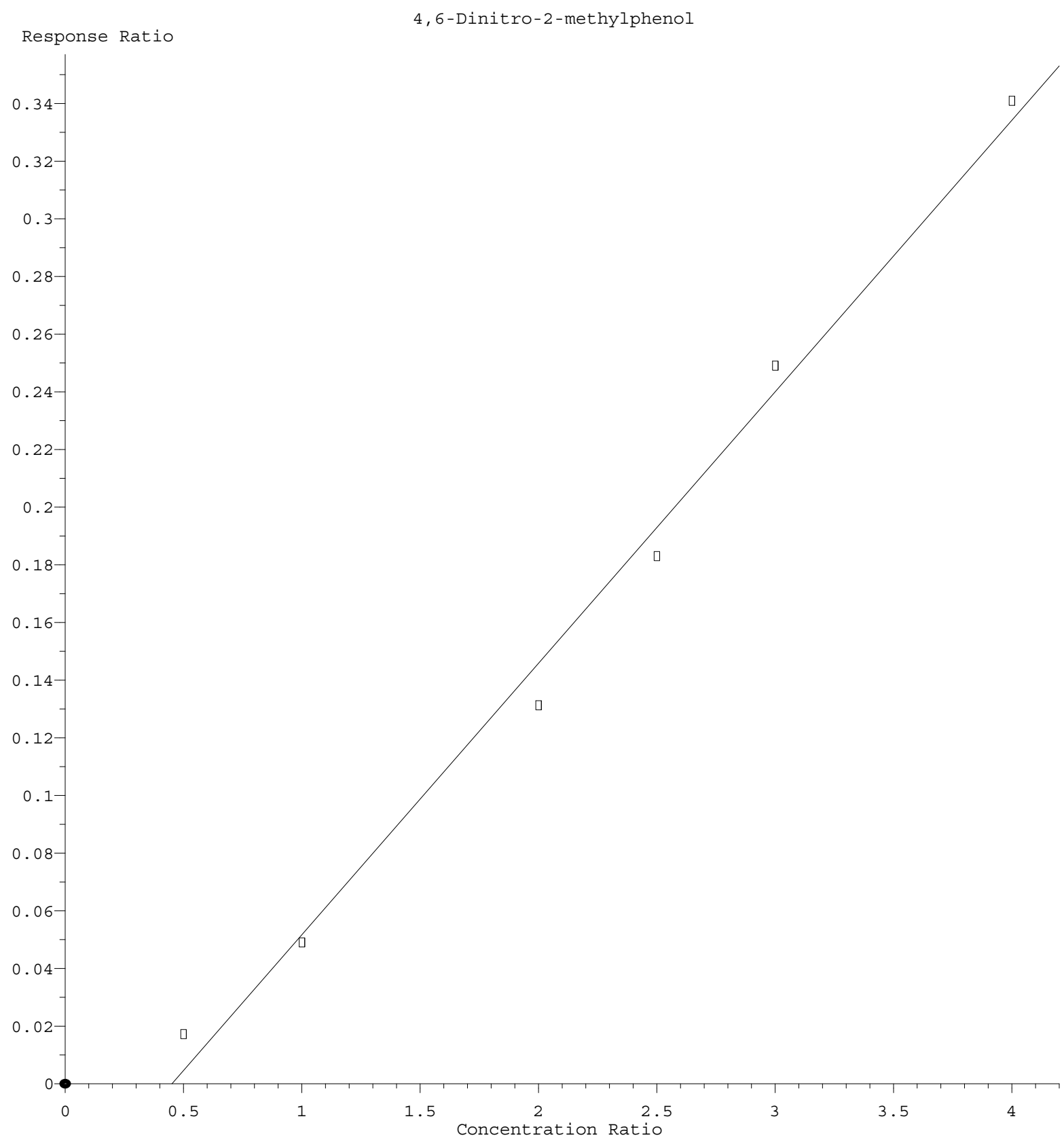
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	0.962	1.075	1.258	1.378	1.420	1.439	1.413	1.278	14.85
88)		Benzo(b)fluora...	1.207	1.252	1.329	1.317	1.228	1.185	1.124	1.235	5.87
89)		Benzo(k)fluora...	1.201	1.291	1.394	1.250	1.224	1.196	1.032	1.227	8.93
90)	C	Benzo(a)pyrene	0.974	1.090	1.158	1.132	1.097	1.096	1.013	1.080	6.01
91)		Dibenzo(a,h)an...	0.806	0.882	1.036	1.125	1.163	1.163	1.114	1.041	13.73
92)		Benzo(g,h,i)pe...	0.759	0.815	0.978	1.100	1.140	1.153	1.109	1.008	16.07

(#) = Out of Range



Response = 7.953e-001 * Amt - 1.278e-001
Coef of Det (r^2) = 0.999437 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012324.M
Calibration Table Last Updated: Wed Jan 24 03:53:23 2024



Response = 9.430e-002 * Amt - 4.256e-002
Coef of Det (r^2) = 0.991908 Curve Fit: Linear
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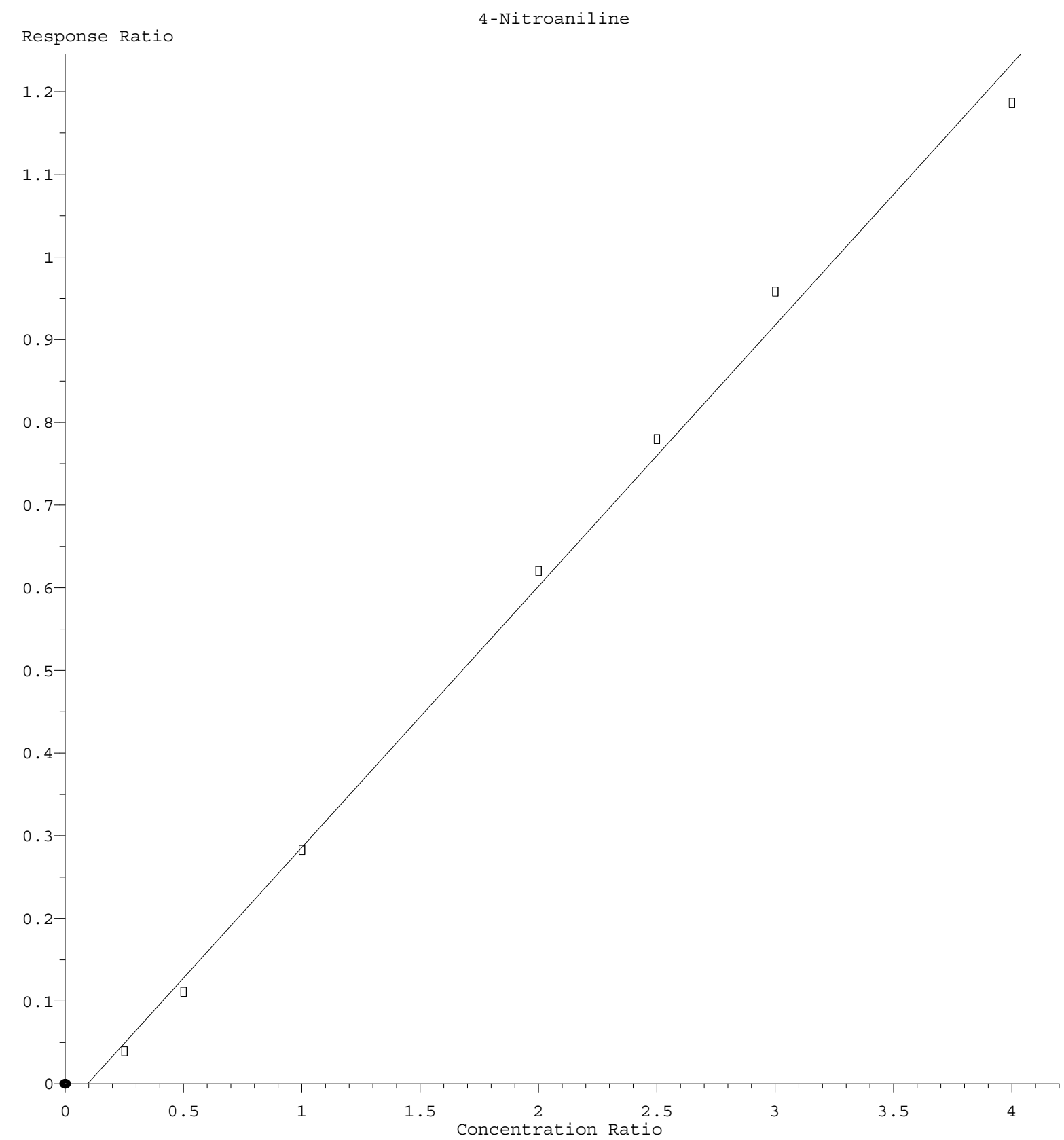
Calibration Table Last Updated: Wed Jan 24 03:53:23 2024



Response = 3.160e-001 * Amt - 2.992e-002
Coef of Det (r^2) = 0.995662 Curve Fit: Linear
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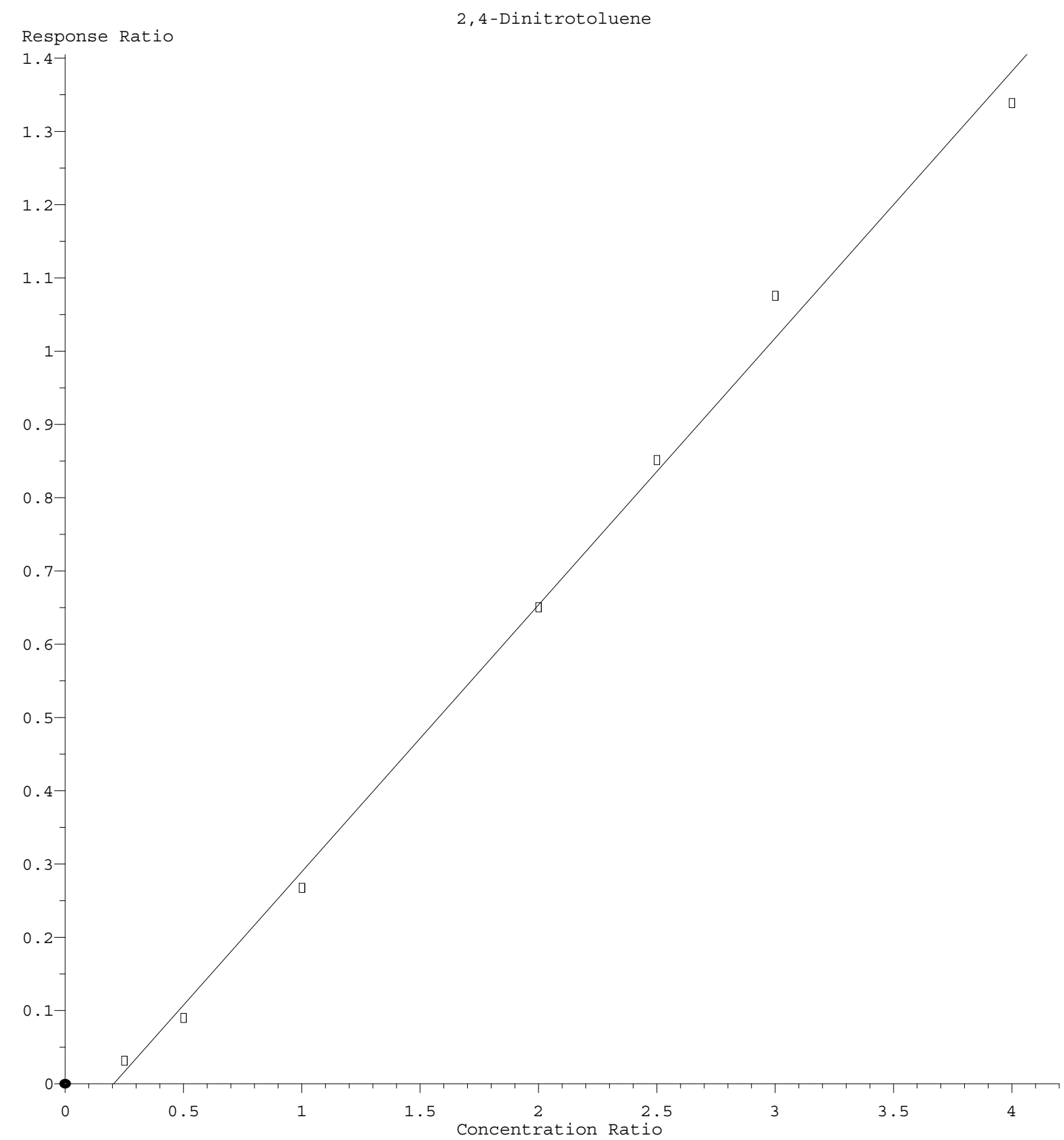
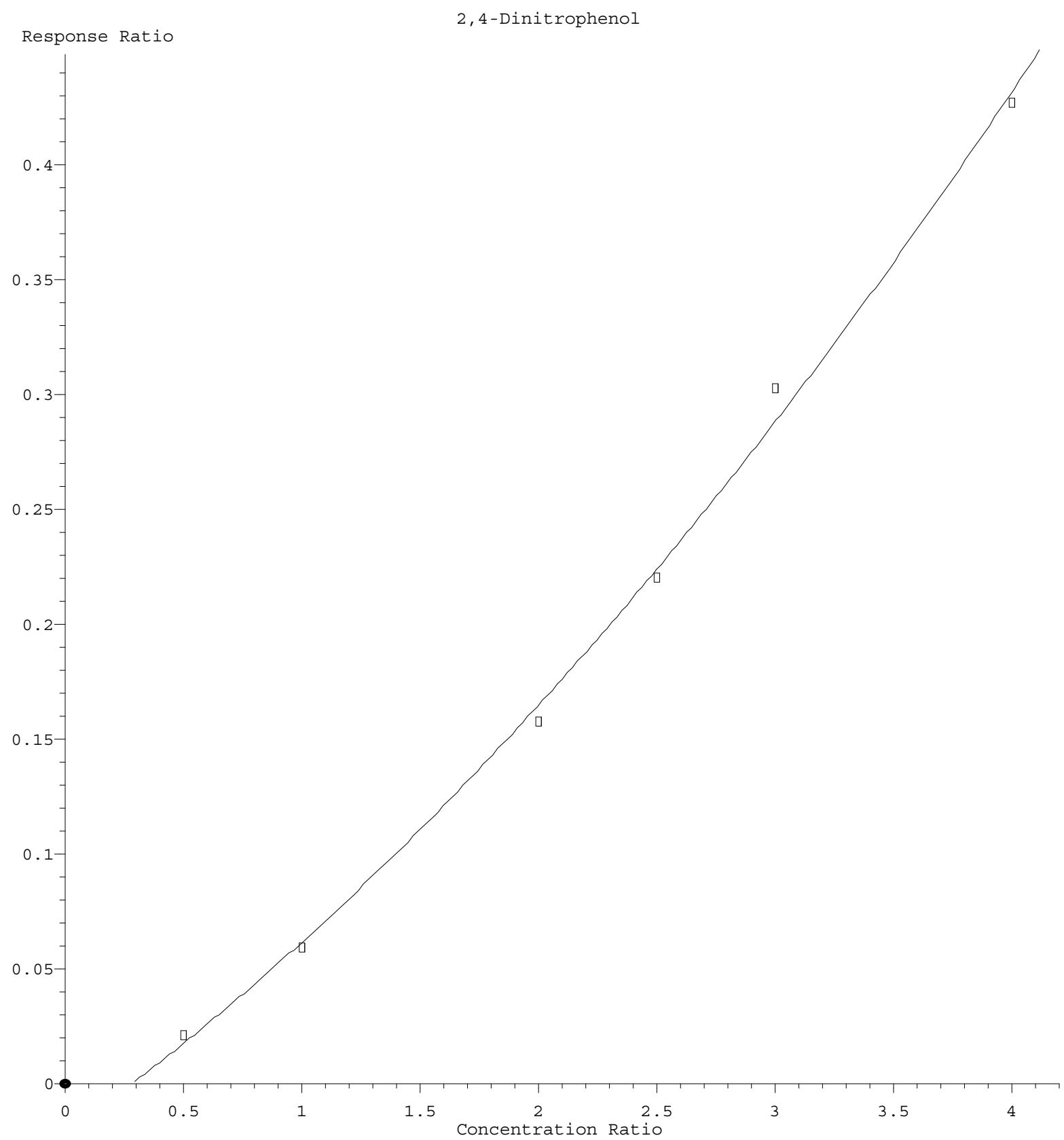
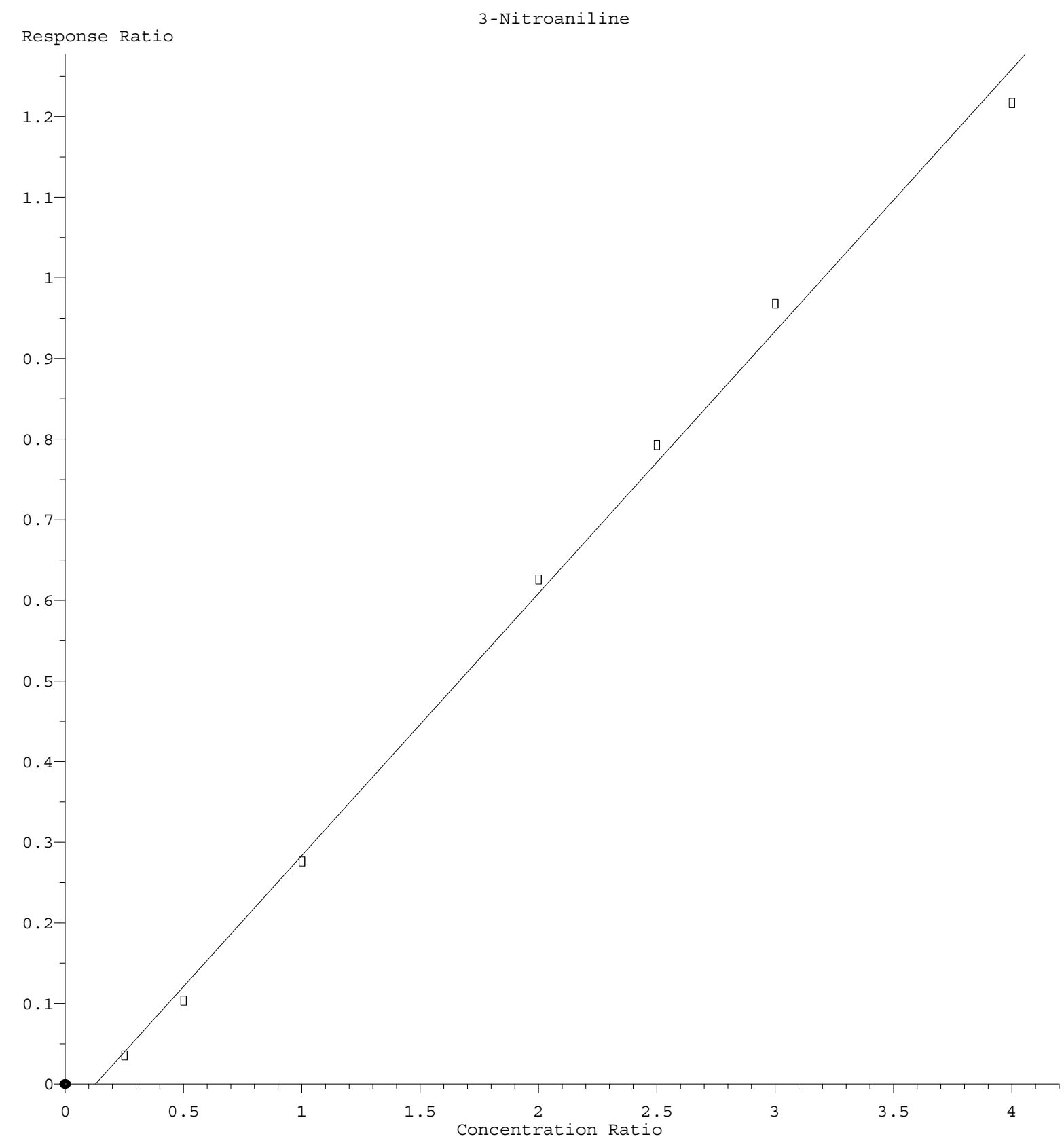
Calibration Table Last Updated: Wed Jan 24 03:53:23 2024



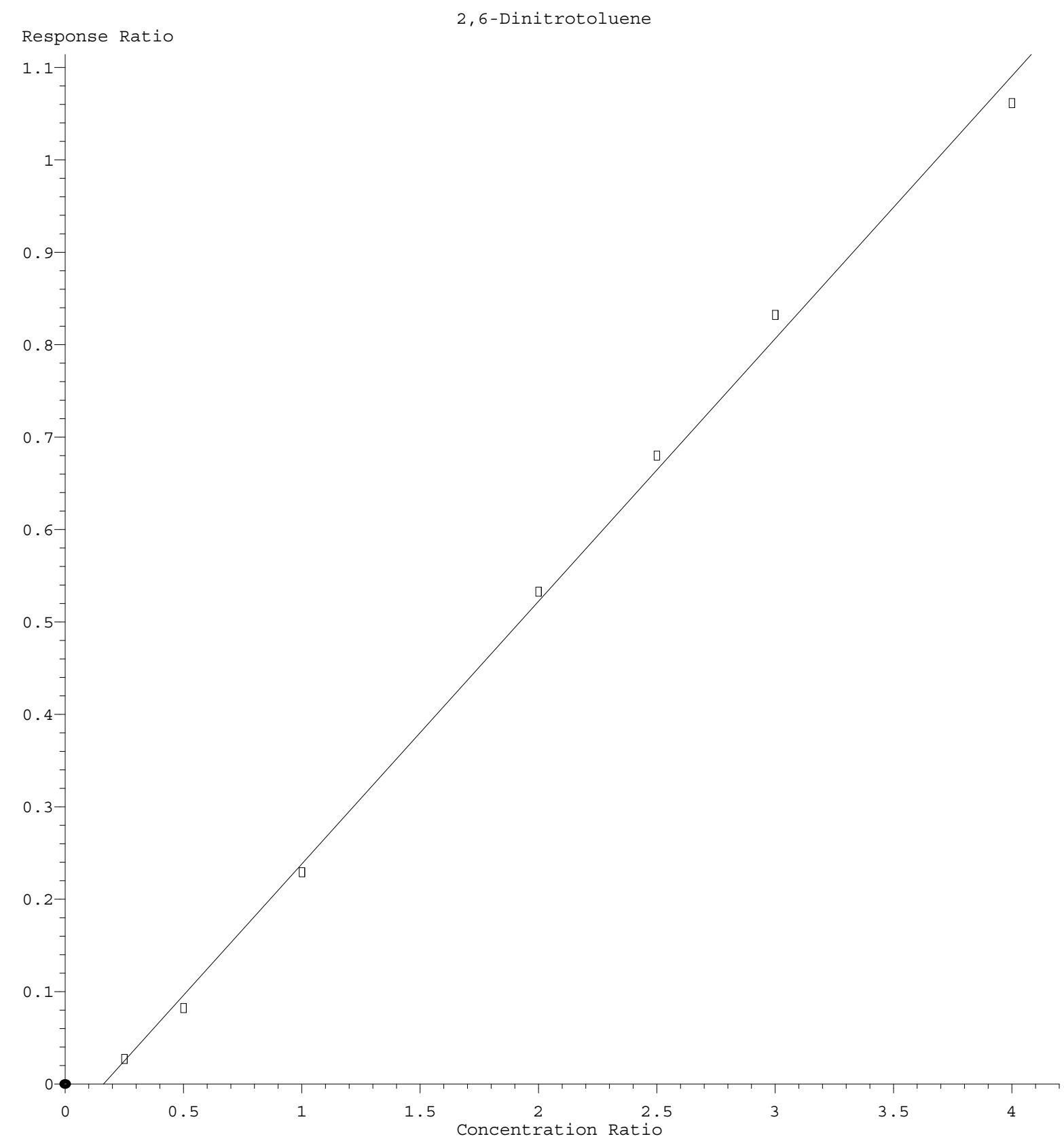
Response = 3.642e-001 * Amt - 7.452e-002
Coef of Det (r^2) = 0.995760 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012324.M
Calibration Table Last Updated: Wed Jan 24 03:53:23 2024



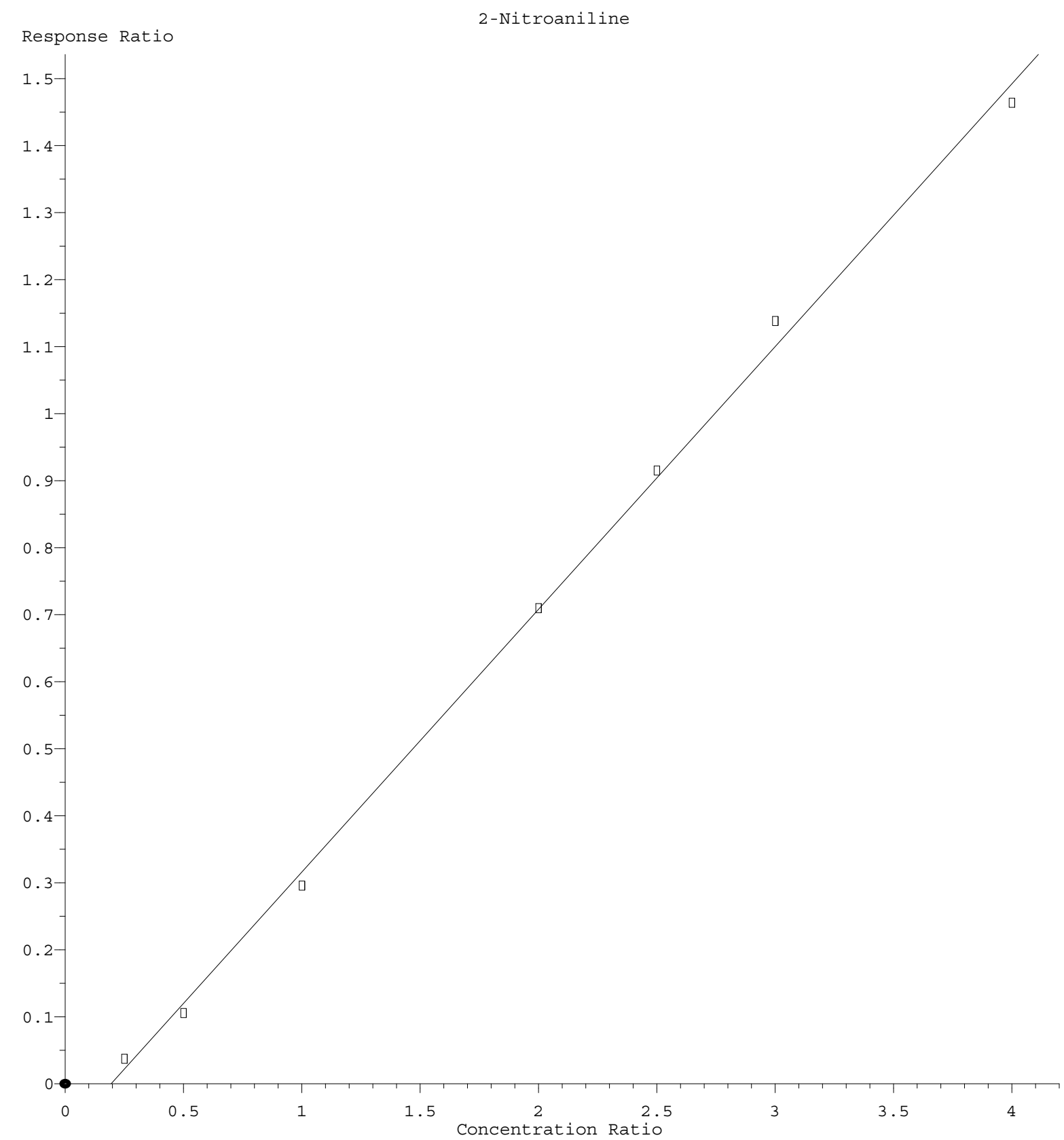
R = 1.009e-002 A*A + 7.295e-002 A - 2.143e-002
Coef of Det (r^2) = 0.997270 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012324.M
Calibration Table Last Updated: Wed Jan 24 03:53:23 2024



Response = 3.253e-001 * Amt - 4.171e-002
Coef of Det (r^2) = 0.996657 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012324.M
Calibration Table Last Updated: Wed Jan 24 03:53:23 2024



Response = 2.843e-001 * Amt - 4.597e-002
Coef of Det (r^2) = 0.997695 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012324.M
Calibration Table Last Updated: Wed Jan 24 03:53:23 2024



Response = 3.923e-001 * Amt - 7.601e-002
Coef of Det (r^2) = 0.998166 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012324.M
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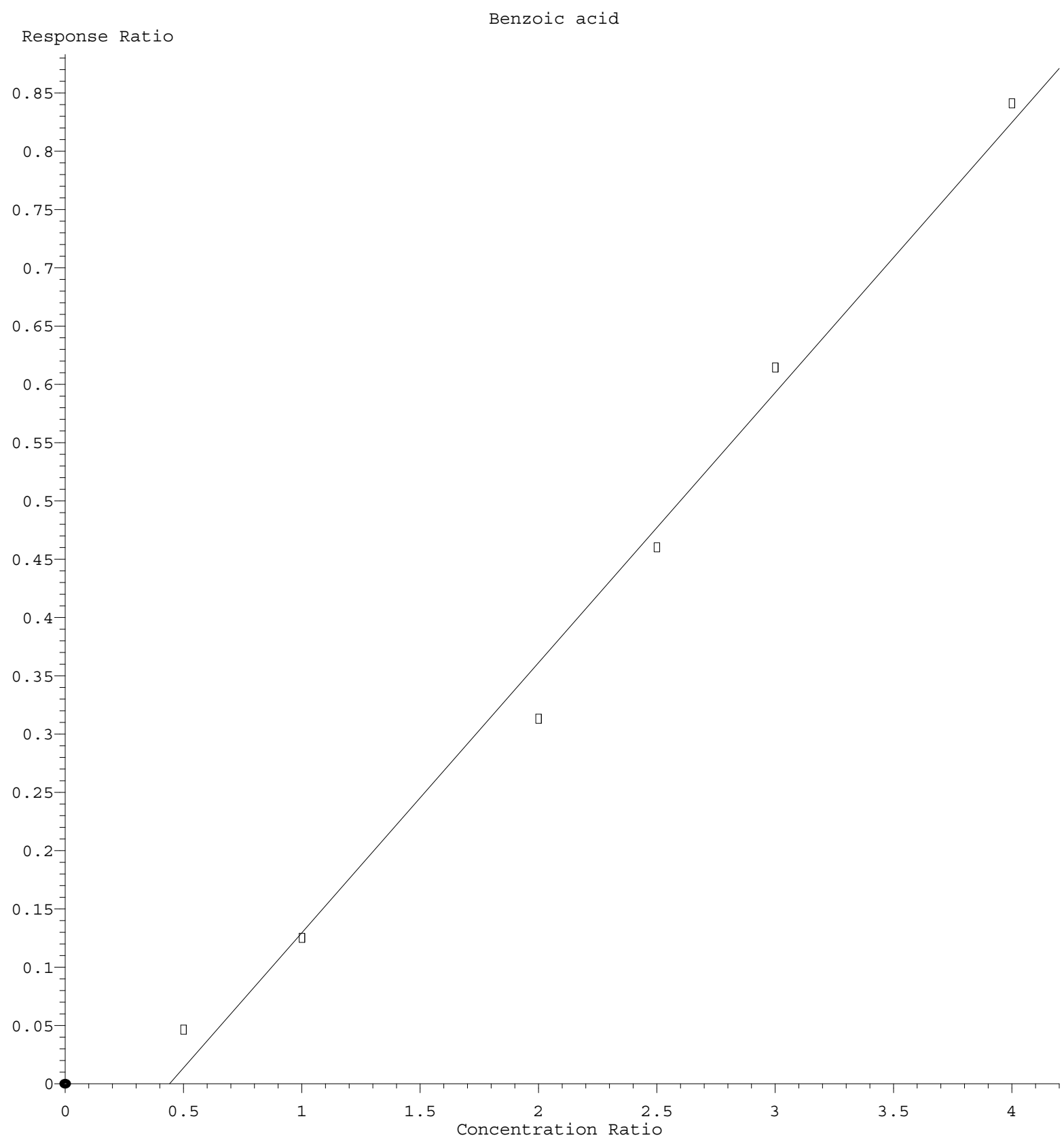

Response = 2.318e-001 * Amt - 1.022e-001
Coef of Det (r^2) = 0.990228 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012324.M
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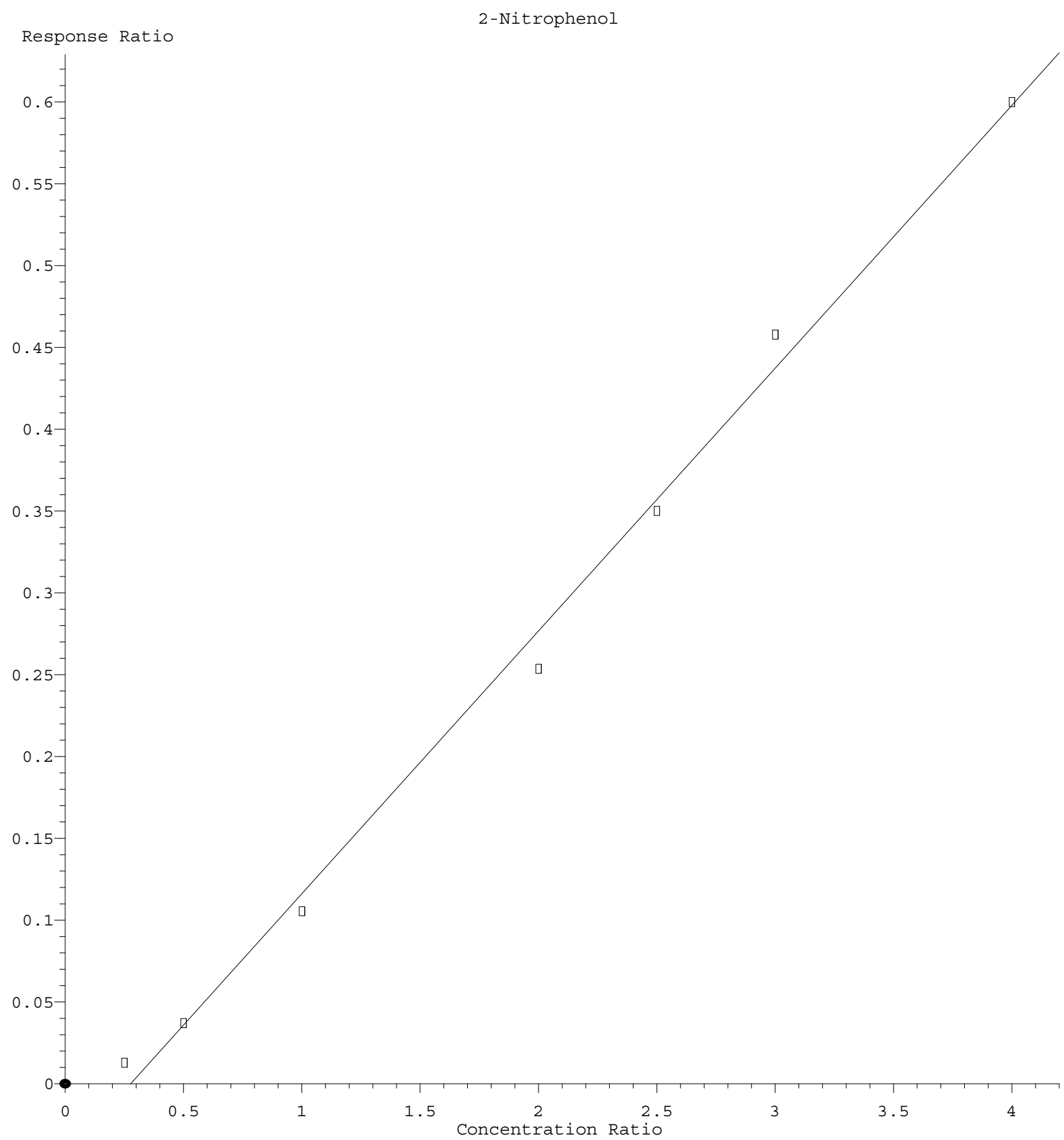

Response = 1.606e-001 * Amt - 4.446e-002
Coef of Det (r^2) = 0.995232 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012324.M
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