Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG110922.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 10 03:39:46 2022
Response Via : Initial Calibration

Calibration Files
2.5 =BG055517.D 5 =BG055518.D 10 =BG055519.D 20 =BG055520.D 40 =BG055521.D 50 =BG055522.D 60 =BG055523.D 80 =BG0555
24.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.574	0.567	0.578	0.535	0.494	0.500	0.485	0.533	7.55
3)		Pyridine		1.262	1.446	1.553	1.567	1.476	1.546	1.531	1.483	7.21
4)		n-Nitrosodimet...		0.778	0.799	0.858	0.820	0.784	0.815	0.796	0.807	3.37
5)	S	2-Fluorophenol	0.966	0.994	1.036	1.134	1.091	1.043	1.081	1.056	1.050	5.12
6)		Aniline		1.967	1.960	1.948	1.979	1.865	1.883	1.884	1.927	2.46
7)	S	Phenol-d6	1.337	1.429	1.434	1.501	1.530	1.453	1.470	1.449	1.450	3.96
8)		2-Chlorophenol		1.108	1.114	1.222	1.222	1.173	1.198	1.192	1.176	4.02
9)		Benzaldehyde		1.347	1.267	1.216	1.126	1.052	1.044	0.959	1.144	12.07
10)	C	Phenol		1.686	1.665	1.696	1.719	1.627	1.669	1.625	1.670	2.07
11)		bis(2-Chloroet...		1.441	1.389	1.403	1.348	1.264	1.302	1.263	1.344	5.22
12)		1,3-Dichlorobe...		1.536	1.500	1.561	1.464	1.392	1.431	1.395	1.468	4.55
13)	C	1,4-Dichlorobe...		1.610	1.506	1.552	1.497	1.392	1.441	1.405	1.486	5.33
14)		1,2-Dichlorobe...		1.491	1.450	1.510	1.418	1.328	1.362	1.319	1.411	5.45
15)		Benzyl Alcohol		1.109	1.235	1.261	1.345	1.281	1.327	1.297	1.265	6.19
16)		2,2'-oxybis(1-...		2.769	2.679	2.640	2.627	2.432	2.513	2.423	2.583	5.06
17)		2-Methylphenol		1.113	1.180	1.186	1.219	1.153	1.197	1.176	1.175	2.89
18)		Hexachloroethane		0.503	0.475	0.515	0.504	0.474	0.494	0.488	0.493	3.11
19)	P	n-Nitroso-di-n...	1.185	1.248	1.262	1.149	1.244	1.167	1.176	1.159	1.199	3.76
20)		3+4-Methylphenols		1.481	1.628	1.618	1.733	1.643	1.683	1.671	1.637	4.82
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.550	0.549	0.548	0.517	0.510	0.531	0.518	0.532	3.23
23)	S	Nitrobenzene-d5	0.212	0.226	0.254	0.301	0.320	0.331	0.357	0.359	0.295	19.53
24)		Nitrobenzene		0.245	0.292	0.340	0.359	0.364	0.386	0.389	0.339	15.54
25)		Isophorone		0.739	0.744	0.754	0.755	0.742	0.780	0.762	0.754	1.90
26)	C	2-Nitrophenol		0.067	0.077	0.092	0.105	0.116			0.091	21.70
27)		2,4-Dimethylph...		0.231	0.253	0.270	0.276	0.281	0.290	0.286	0.269	7.78
28)		bis(2-Chloroet...		0.395	0.410	0.413	0.405	0.399	0.418	0.405	0.406	1.93
29)	C	2,4-Dichloroph...		0.224	0.262	0.294	0.311	0.314	0.333	0.335	0.296	13.60
30)		1,2,4-Trichlor...		0.360	0.376	0.385	0.367	0.360	0.378	0.371	0.371	2.49
31)		Naphthalene		1.095	1.096	1.119	1.064	1.044	1.087	1.065	1.081	2.35
32)		Benzoic acid			0.089	0.106	0.145	0.163	0.192	0.208	0.150	31.24
33)		4-Chloroaniline		0.429	0.460	0.454	0.449	0.447	0.465	0.461	0.452	2.66
34)	C	Hexachlorobuta...		0.242	0.246	0.257	0.244	0.241	0.252	0.251	0.247	2.48
35)		Caprolactam		0.068	0.092	0.103	0.107	0.108	0.114	0.115	0.101	16.25
36)	C	4-Chloro-3-met...		0.286	0.329	0.350	0.360	0.362	0.381	0.376	0.349	9.41
37)		2-Methylnaphth...		0.827	0.830	0.826	0.799	0.790	0.812	0.802	0.812	1.93
38)		1-Methylnaphth...		0.816	0.823	0.805	0.780	0.766	0.794	0.779	0.795	2.63

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39)	I	Acenaphthene-d10	----------ISTD----------									
40)		1,2,4,5-Tetrac...		0.606	0.590	0.622	0.590	0.570	0.602	0.602	0.597	2.73
41)	P	Hexachlorocycl...		0.189	0.215	0.252	0.267	0.270	0.293	0.304	0.256	16.13
42)	S	2,4,6-Tribromo...	0.128		0.165	0.197	0.212	0.210	0.225	0.228	0.195	18.61
43)	C	2,4,6-Trichlor...		0.241	0.295	0.343	0.372	0.383	0.411	0.413	0.351	18.06
44)		2,4,5-Trichlor...		0.289	0.358	0.398	0.429	0.431	0.456	0.455	0.402	15.07
45)	S	2-Fluorobiphenyl	1.447	1.380	1.372	1.380	1.277	1.236	1.278	1.237	1.326	5.93
46)		1,1'-Biphenyl		1.507	1.489	1.525	1.435	1.400	1.453	1.433	1.463	3.09
47)		2-Chloronaphth...		1.168	1.141	1.172	1.103	1.090	1.125	1.114	1.130	2.79
48)		2-Nitroaniline		0.158	0.187	0.236	0.280	0.299			0.232	25.74
49)		Acenaphthylene		1.872	1.916	1.956	1.839	1.797	1.878	1.832	1.870	2.88
50)		Dimethylphthalate		1.354	1.504	1.608	1.547	1.514	1.560	1.551	1.520	5.29
51)		2,6-Dinitrotol...		0.149	0.182	0.232	0.266	0.268			0.219	23.89
52)	C	Acenaphthene		1.141	1.173	1.217	1.158	1.131	1.178	1.174	1.167	2.43
53)		3-Nitroaniline		0.184	0.225	0.278	0.304	0.308	0.331	0.339	0.281	20.32
54)	P	2,4-Dinitrophenol			0.068	0.087	0.092	0.095	0.107	0.118	0.094	18.21
55)		Dibenzofuran		1.938	1.938	1.960	1.815	1.778	1.836	1.801	1.866	4.08
56)	P	4-Nitrophenol			0.153	0.207	0.229	0.237	0.257	0.267	0.225	18.23
57)		2,4-Dinitrotol...		0.193	0.224	0.296	0.343	0.360			0.283	25.71
58)		Fluorene		1.567	1.536	1.557	1.448	1.418	1.450	1.419	1.485	4.43
59)		2,3,4,6-Tetrac...		0.265	0.322	0.372	0.399	0.401	0.422	0.429	0.373	15.99
60)		Diethylphthalate		1.392	1.545	1.647	1.566	1.532	1.577	1.563	1.546	4.99
61)		4-Chlorophenyl...		0.840	0.808	0.812	0.773	0.746	0.777	0.772	0.790	3.98
62)		4-Nitroaniline		0.216	0.254	0.320	0.318	0.318	0.339	0.346	0.301	15.98
63)		Azobenzene		1.549	1.561	1.559	1.462	1.430	1.471	1.458	1.499	3.69
64)	I	Phenanthrene-d10	----------ISTD----------									
65)		4,6-Dinitro-2-...			0.042	0.050	0.060	0.064	0.072	0.079	0.061	22.29
66)	c	n-Nitrosodiphe...		0.553	0.564	0.576	0.561	0.551	0.566	0.551	0.560	1.68
67)		4-Bromophenyl-...		0.199	0.209	0.208	0.206	0.199	0.206	0.200	0.204	2.22
68)		Hexachlorobenzene		0.248	0.245	0.241	0.240	0.239	0.245	0.239	0.243	1.42
69)		Atrazine		0.158	0.195	0.223	0.212	0.207	0.214	0.210	0.203	10.59
70)	C	Pentachlorophenol			0.096	0.117	0.137	0.141	0.151	0.155	0.133	17.11
71)		Phenanthrene		1.103	1.125	1.123	1.057	1.040	1.056	1.020	1.075	3.91
72)		Anthracene		1.086	1.096	1.109	1.045	1.015	1.025	0.999	1.053	4.12
73)		Carbazole		0.958	0.992	1.040	0.943	0.913	0.924	0.895	0.952	5.25
74)		Di-n-butylphth...		0.856	1.019	1.255	1.150	1.120	1.147	1.092	1.092	11.51
75)	C	Fluoranthene		1.318	1.334	1.450	1.257	1.205	1.232	1.177	1.282	7.30
76)	I	Chrysene-d12	----------ISTD----------									
77)		Benzidine		0.531	0.506	0.525	0.568	0.552	0.572	0.535	0.541	4.42
78)		Pyrene		1.396	1.411	1.382	1.341	1.315	1.335	1.295	1.354	3.21
79)	S	Terphenyl-d14	1.081	1.058	1.057	1.037	0.965	0.932	0.941	0.894	0.996	7.10
80)		Butylbenzylpht...		0.290	0.360	0.448	0.494	0.509	0.536	0.531	0.453	20.73
81)		Benzo(a)anthra...		1.394	1.386	1.426	1.368	1.322	1.367	1.326	1.370	2.69
82)		3,3'-Dichlorob...		0.388	0.432	0.468	0.465	0.452	0.472	0.452	0.447	6.55
83)		Chrysene		1.327	1.322	1.352	1.292	1.255	1.301	1.269	1.303	2.60
84)		Bis(2-ethylhex...		0.487	0.581	0.694	0.740	0.739	0.779	0.762	0.683	15.90
85)	c	Di-n-octyl pht...			0.884	1.113	1.225	1.239	1.324	1.298	1.181	13.78

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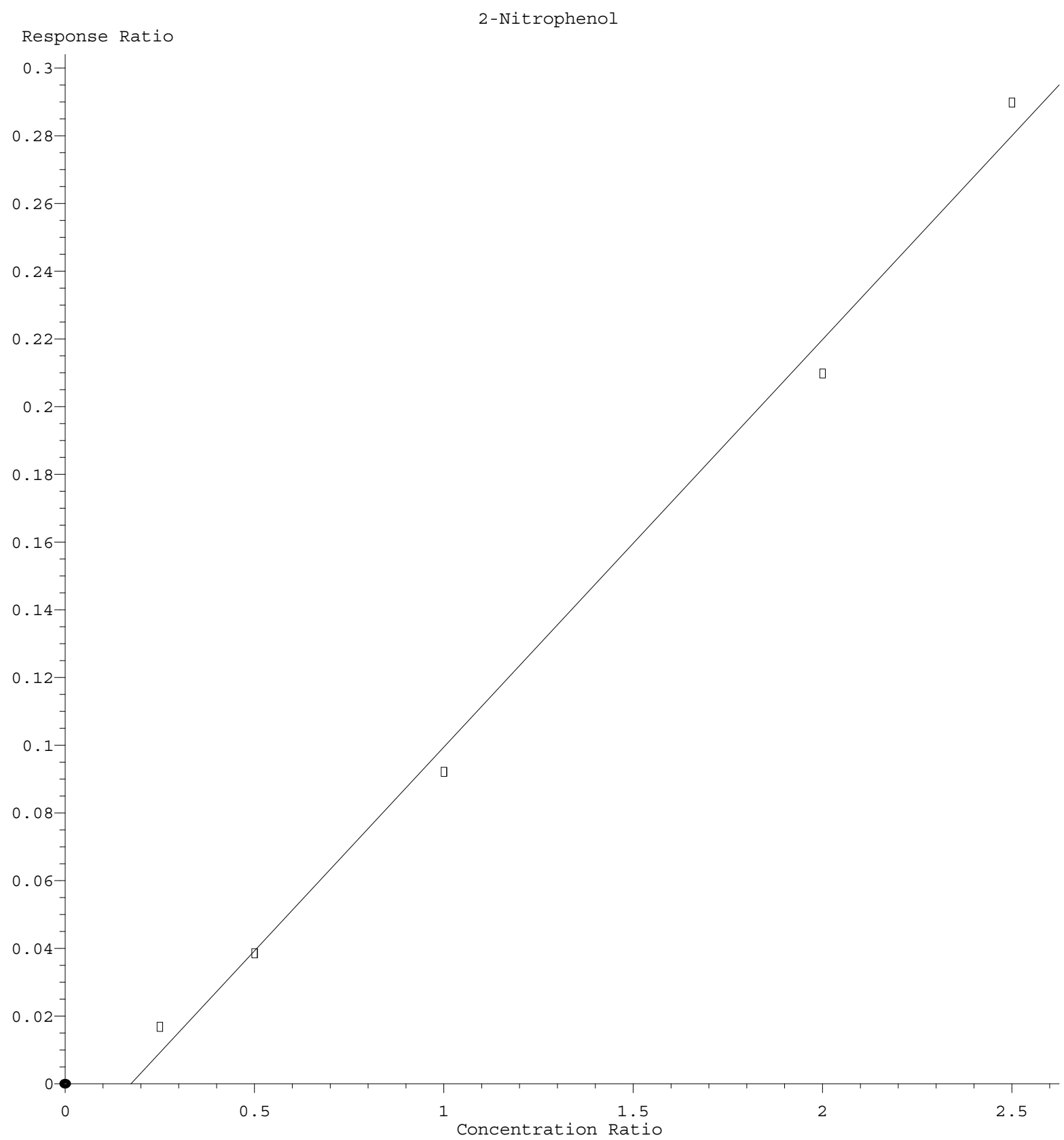
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.491	1.497	1.577	1.508	1.489	1.555	1.545	1.523	2.34
88)		Benzo(b)fluora...	1.252	1.271	1.329	1.252	1.228	1.288	1.251	1.267	2.61
89)		Benzo(k)fluora...	1.325	1.318	1.354	1.282	1.248	1.282	1.260	1.296	2.94
90)	C	Benzo(a)pyrene	1.074	1.092	1.138	1.081	1.064	1.107	1.085	1.092	2.26
91)		Dibenzo(a,h)an...	1.248	1.260	1.309	1.248	1.222	1.277	1.262	1.261	2.15
92)		Benzo(g,h,i)pe...	1.183	1.222	1.275	1.227	1.206	1.261	1.253	1.233	2.63

(#) = Out of Range



Response = 1.202e-001 * Amt - 2.089e-002
Coef of Det (r^2) = 0.994316 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG110922.M
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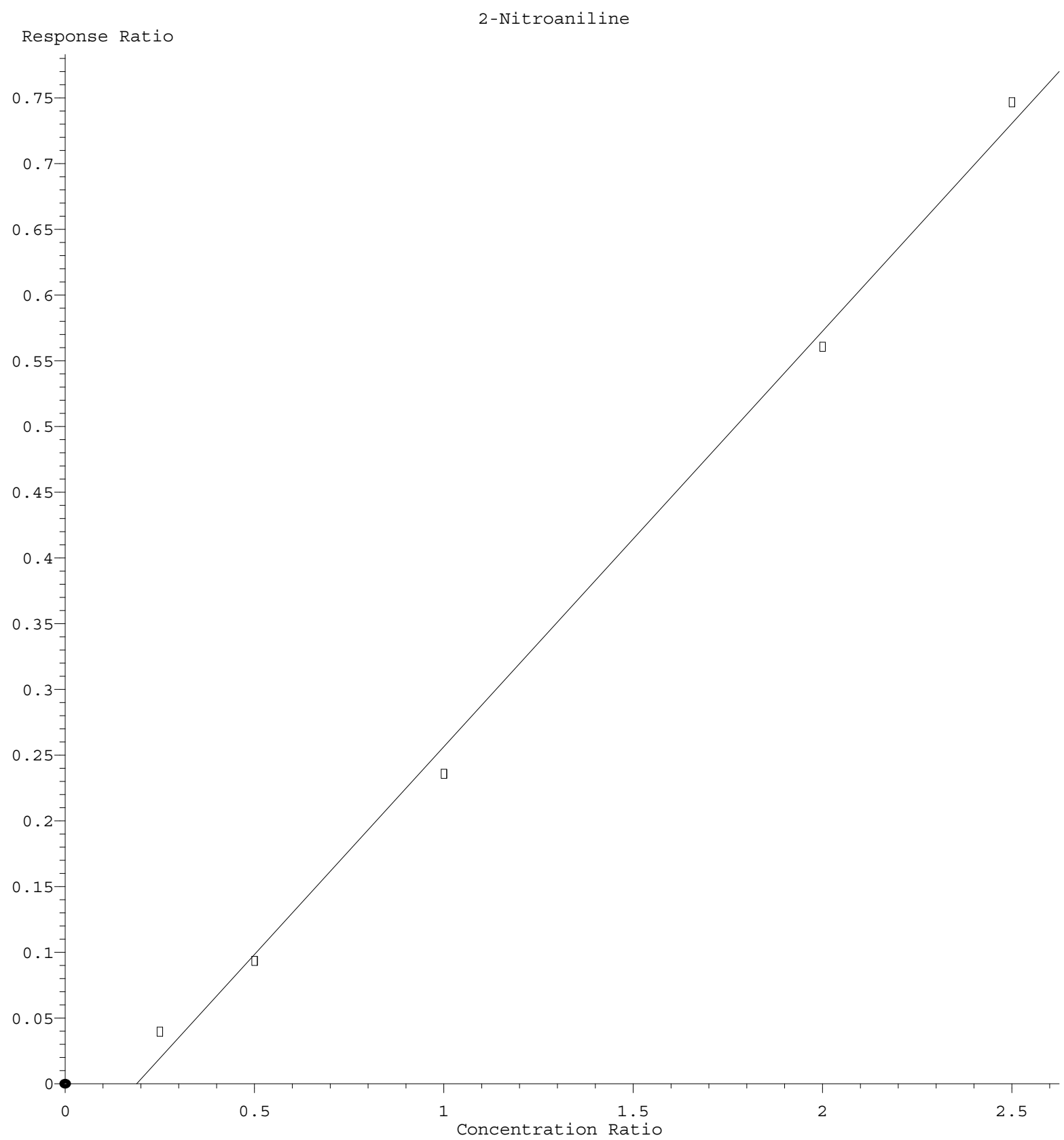

Response = 3.160e-001 * Amt - 5.984e-002
Coef of Det (r^2) = 0.996651 Curve Fit: Linear
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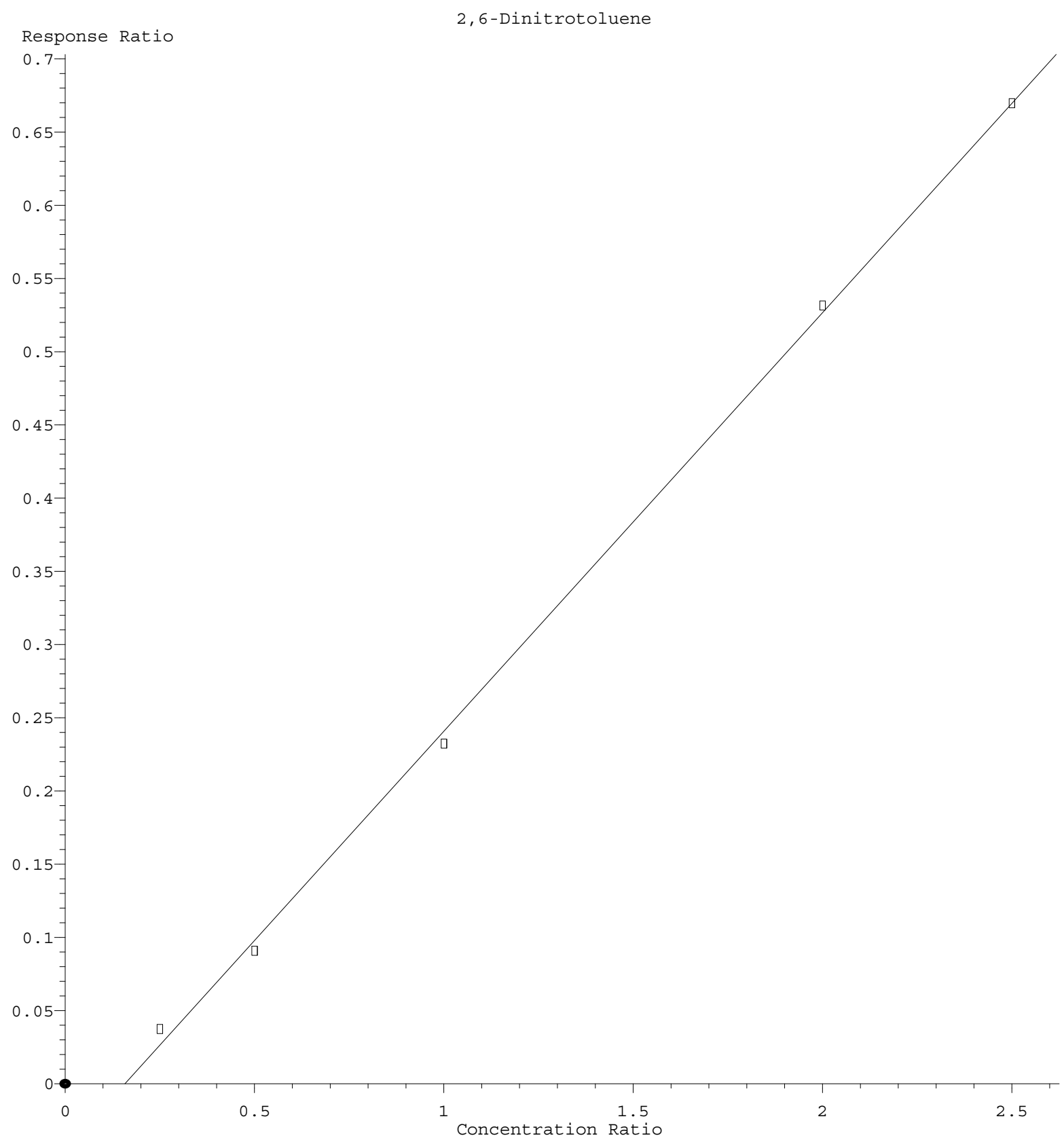

Response = 2.859e-001 * Amt - 4.507e-002
Coef of Det (r^2) = 0.999134 Curve Fit: Linear
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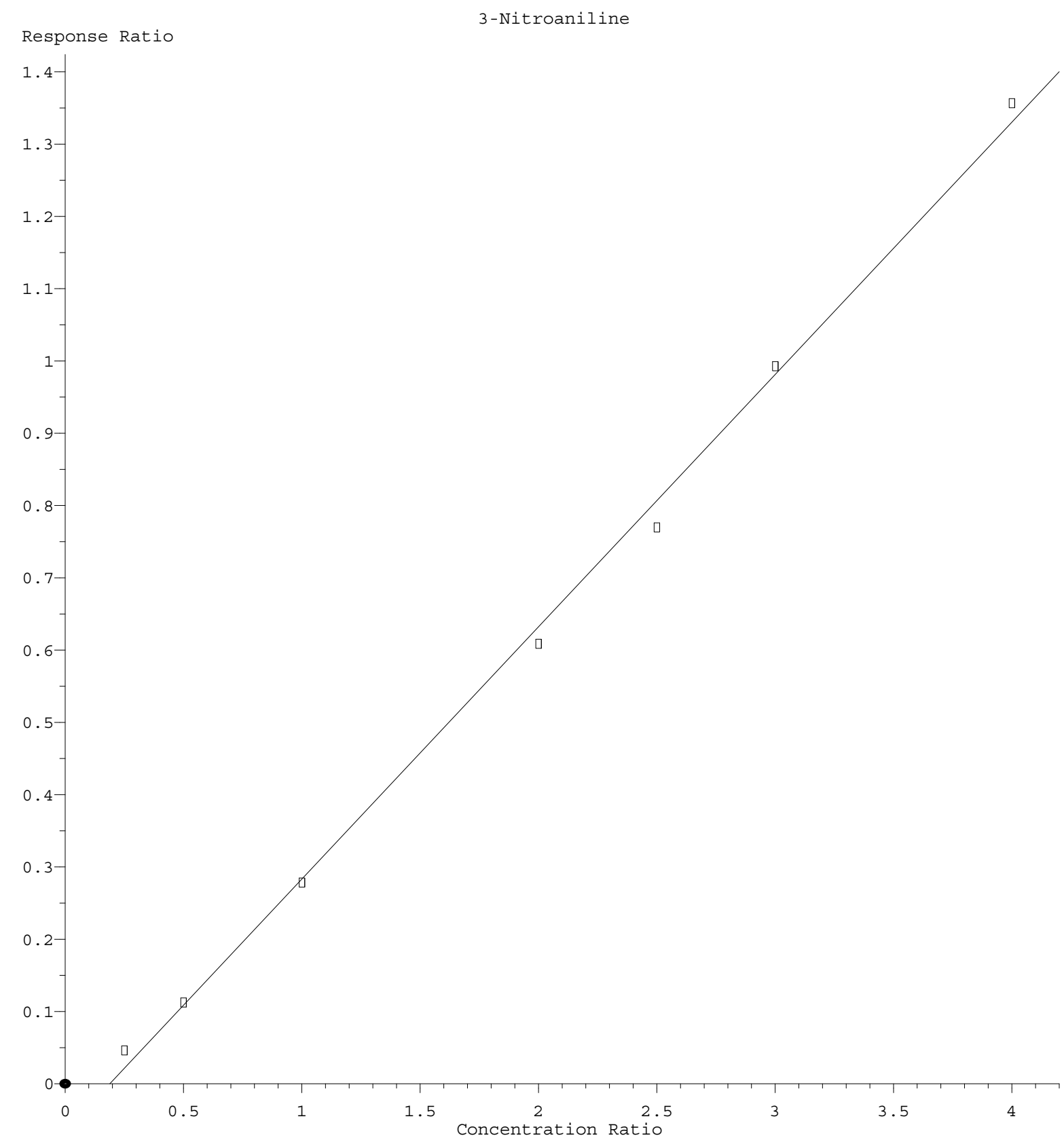
Calibration Table Last Updated: Thu Nov 10 03:39:46 2022



Response = 3.491e-001 * Amt - 6.597e-002
Coef of Det (r^2) = 0.997578 Curve Fit: Linear
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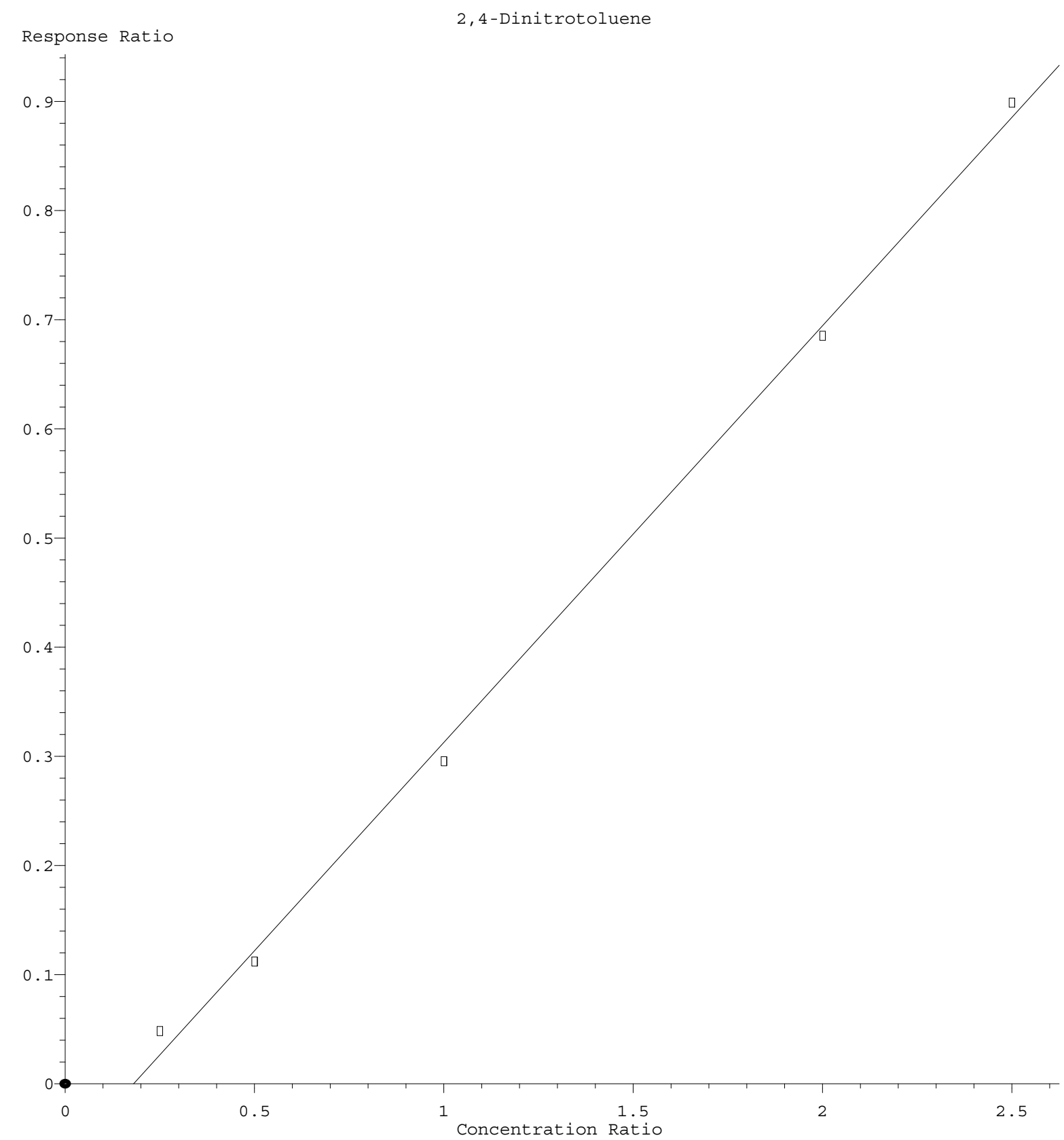
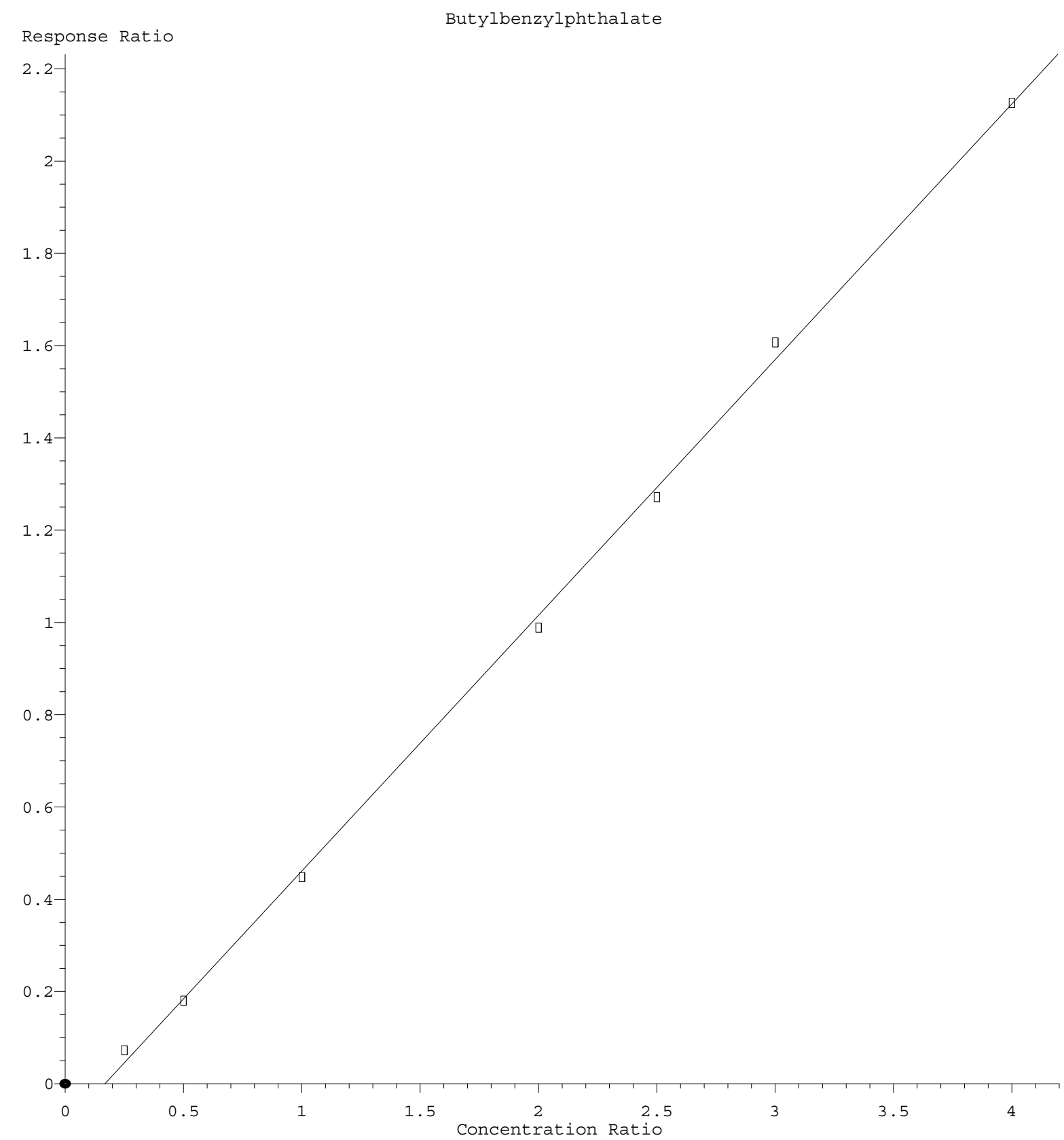
Calibration Table Last Updated: Thu Nov 10 03:39:46 2022



Response = 3.817e-001 * Amt - 6.914e-002
Coef of Det (r^2) = 0.997928 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG110922.M
Calibration Table Last Updated: Thu Nov 10 03:39:46 2022



Response = 5.544e-001 * Amt - 9.326e-002
Coef of Det (r^2) = 0.999016 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG110922.M
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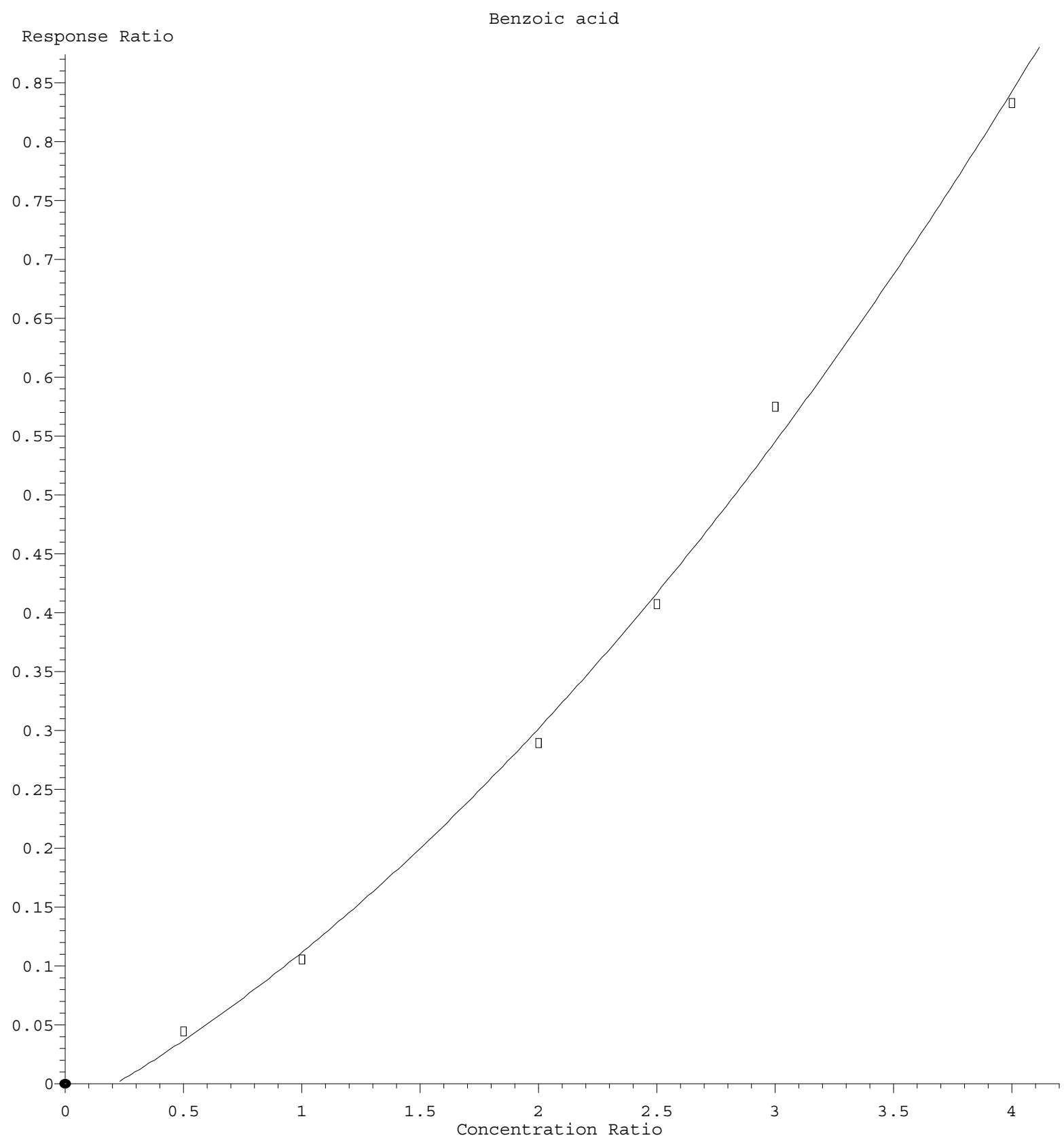

R = 2.681e-002 A*A + 1.096e-001 A - 2.479e-002
Coef of Det (r^2) = 0.997014 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG110922.M
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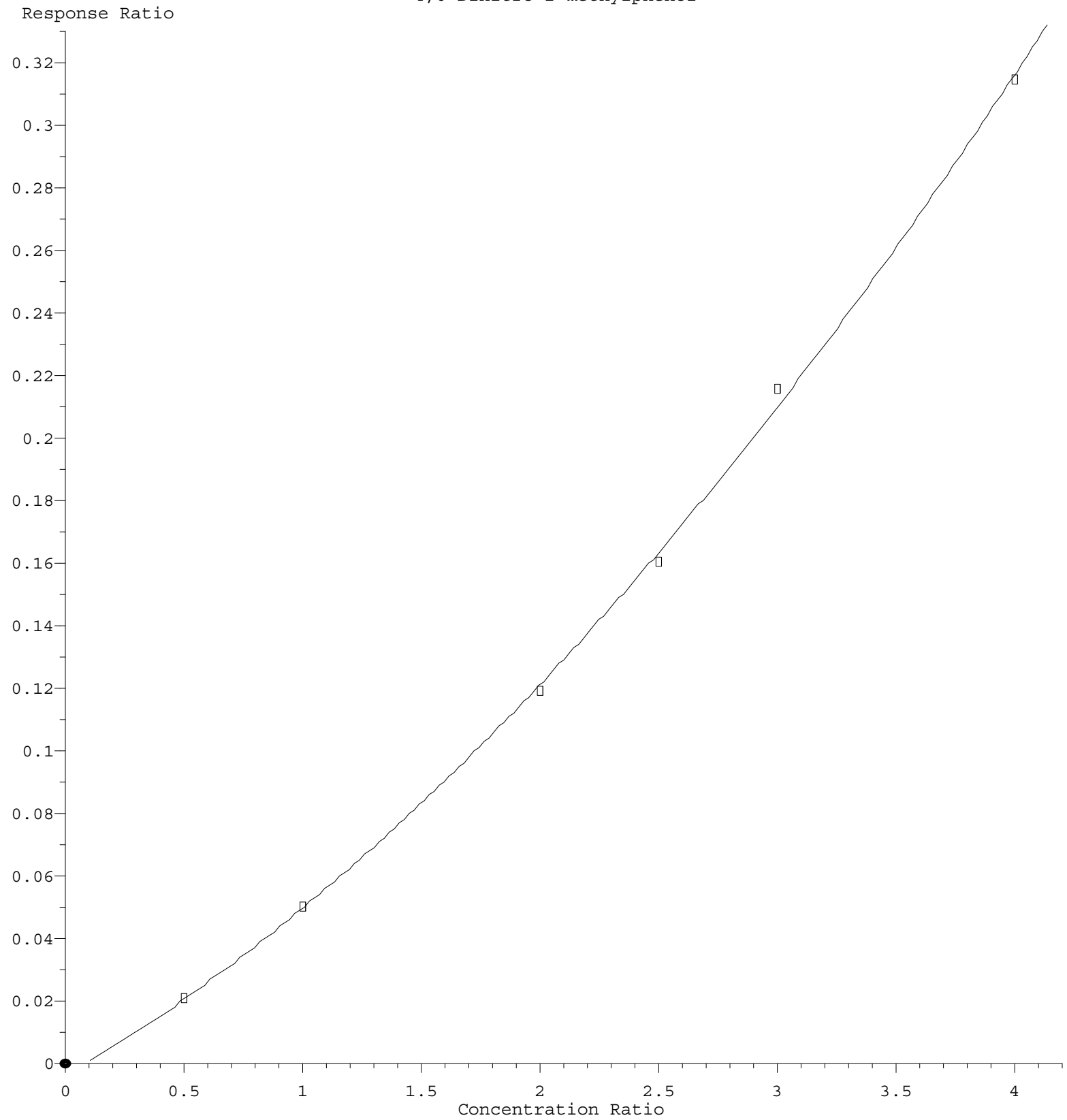
4,6-Dinitro-2-methylphenol



R = 8.688e-003 A*A + 4.539e-002 A - 4.342e-003
Coef of Det (r^2) = 0.999184 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG110922.M
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