Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Jan 27 02:14:33 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF137173.D 5 =BF137174.D 10 =BF137175.D 20 =BF137176.D 40 =BF137177.D 50 =BF137178.D 60 =BF137179.D 80 =BF1371
80.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.602	0.658	0.656	0.654	0.619	0.613	0.606	0.630	4.00
3)		Pyridine		0.200	0.591	0.935	1.189	1.200	1.241	1.279	0.948	43.18
4)		n-Nitrosodimet...			0.297	0.519	0.639	0.650	0.681	0.726	0.585	26.87
5)	S	2-Fluorophenol		0.654	1.042	1.248	1.334	1.254	1.274	1.253	1.151	20.62
6)		Aniline		0.950	1.410	1.843	1.991	1.944	1.979	1.977	1.728	23.16
7)	S	Phenol-d6		1.134	1.641	1.773	1.840	1.707	1.720	1.684	1.643	14.20
8)		2-Chlorophenol		1.102	1.302	1.368	1.433	1.359	1.365	1.356	1.327	7.99
9)		Benzaldehyde		0.527	0.612	0.814	0.804	0.695	0.605	0.499	0.651	19.21
10)	C	Phenol		1.349	1.754	1.984	2.068	1.927	1.943	1.885	1.844	12.93
11)		bis(2-Chloroet...		1.115	1.342	1.454	1.340	1.438	1.531	1.303	1.360	9.86
12)		1,3-Dichlorobe...		1.554	1.597	1.657	1.630	1.537	1.548	1.496	1.574	3.59
13)	C	1,4-Dichlorobe...		1.634	1.577	1.737	1.714	1.525	1.610	1.557	1.622	4.90
14)		1,2-Dichlorobe...		1.480	1.602	1.597	1.590	1.477	1.483	1.418	1.521	4.87
15)		Benzyl Alcohol			0.953	1.204	1.346	1.314	1.330	1.339	1.248	12.29
16)		2,2'-oxybis(1-...		2.571	2.611	2.573	2.464	2.253	2.224	2.079	2.397	8.73
17)		2-Methylphenol		1.054	0.991	1.110	1.258	1.226	1.115	1.175	1.133	8.32
18)		Hexachloroethane		0.562	0.607	0.601	0.608	0.564	0.569	0.546	0.580	4.36
19)	P	n-Nitroso-di-n...	1.148	1.129	1.235	1.267	1.248	1.162	1.169	1.155	1.189	4.41
20)		3+4-Methylphenols		1.063	1.303	1.509	1.537	1.456	1.429	1.404	1.386	11.64
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.434	0.512	0.586	0.541	0.543	0.541	0.513	0.524	8.96
23)	S	Nitrobenzene-d5		0.378	0.434	0.468	0.461	0.455	0.455	0.435	0.441	6.87
24)		Nitrobenzene		0.329	0.416	0.449	0.444	0.440	0.435	0.432	0.421	9.92
25)		Isophorone		0.809	0.833	0.872	0.828	0.818	0.818	0.792	0.824	3.03
26)	C	2-Nitrophenol		0.068	0.100	0.120	0.155	0.159	0.166	0.166	0.133	28.69
27)		2,4-Dimethylph...		0.208	0.215	0.234	0.241	0.240	0.235	0.231	0.229	5.57
28)		bis(2-Chloroet...		0.375	0.421	0.467	0.454	0.445	0.449	0.429	0.434	6.97
29)	C	2,4-Dichloroph...		0.173	0.253	0.296	0.307	0.306	0.304	0.293	0.276	17.76
30)		1,2,4-Trichlor...		0.359	0.370	0.381	0.365	0.353	0.354	0.335	0.360	4.07
31)		Naphthalene		1.048	1.086	1.131	1.082	1.048	1.039	0.979	1.059	4.46
32)		Benzoic acid			0.016	0.057	0.106	0.125	0.151	0.191	0.108	58.81
33)		4-Chloroaniline		0.255	0.289	0.382	0.406	0.386	0.382	0.384	0.355	16.34
34)	C	Hexachlorobuta...		0.238	0.254	0.252	0.240	0.232	0.230	0.215	0.237	5.69
35)		Caprolactam		0.070	0.084	0.097	0.100	0.099	0.096	0.091	0.091	11.89
36)	C	4-Chloro-3-met...		0.274	0.315	0.364	0.354	0.358	0.362	0.339	0.338	9.77
37)		2-Methylnaphth...		0.678	0.755	0.774	0.739	0.714	0.705	0.674	0.720	5.27
38)		1-Methylnaphth...		0.703	0.700	0.720	0.678	0.661	0.652	0.616	0.676	5.25

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Method File : 8270-BF012724.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.637	0.714	0.697	0.690	0.658	0.652	0.605	0.665	5.71
41)	P	Hexachlorocycl...	0.228	0.273	0.330	0.347	0.340	0.348	0.332	0.314	14.60
42)	S	2,4,6-Tribromo...	0.185	0.214	0.237	0.246	0.232	0.233	0.217	0.223	9.05
43)	C	2,4,6-Trichlor...	0.282	0.340	0.395	0.412	0.400	0.399	0.394	0.375	12.54
44)		2,4,5-Trichlor...	0.330	0.314	0.422	0.417	0.404	0.423	0.403	0.387	11.82
45)	S	2-Fluorobiphenyl	1.478	1.541	1.549	1.449	1.363	1.346	1.245	1.425	7.84
46)		1,1'-Biphenyl	1.512	1.655	1.693	1.640	1.535	1.538	1.440	1.573	5.79
47)		2-Chloronaphth...	1.128	1.195	1.240	1.195	1.140	1.155	1.084	1.163	4.44
48)		2-Nitroaniline	0.211	0.296	0.386	0.430	0.412	0.421	0.421	0.368	22.58
49)		Acenaphthylene	1.863	1.969	2.014	1.950	1.849	1.821	1.692	1.880	5.79
50)		Dimethylphthalate	1.348	1.431	1.479	1.456	1.364	1.363	1.290	1.390	4.83
51)		2,6-Dinitrotol...	0.218	0.269	0.302	0.314	0.301	0.308	0.294	0.287	11.69
52)	C	Acenaphthene	1.119	1.172	1.220	1.144	1.067	1.075	1.029	1.118	5.92
53)		3-Nitroaniline	0.156	0.194	0.275	0.298	0.283	0.294	0.280	0.254	21.97
54)	P	2,4-Dinitrophenol		0.006	0.039	0.080	0.095	0.114	0.127	0.077	60.02
55)		Dibenzofuran	1.714	1.860	1.906	1.830	1.703	1.704	1.568	1.755	6.64
56)	P	4-Nitrophenol		0.047	0.122	0.174	0.191	0.197	0.195	0.154	38.56
57)		2,4-Dinitrotol...	0.236	0.322	0.397	0.418	0.404	0.407	0.378	0.366	17.91
58)		Fluorene	1.417	1.514	1.489	1.408	1.327	1.306	1.196	1.380	8.06
59)		2,3,4,6-Tetrac...	0.327	0.372	0.390	0.409	0.401	0.397	0.375	0.382	7.27
60)		Diethylphthalate	1.333	1.431	1.468	1.442	1.356	1.355	1.273	1.380	5.05
61)		4-Chlorophenyl...	0.709	0.754	0.737	0.714	0.659	0.650	0.597	0.689	8.05
62)		4-Nitroaniline	0.182	0.253	0.276	0.294	0.280	0.287	0.262	0.262	14.45
63)		Azobenzene	1.436	1.588	1.605	1.573	1.469	1.474	1.373	1.503	5.80
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.042	0.069	0.087	0.094	0.100	0.105	0.083	28.50
66)	c	n-Nitrosodiphe...	0.551	0.602	0.644	0.605	0.594	0.594	0.565	0.593	5.04
67)		4-Bromophenyl-...	0.201	0.218	0.236	0.225	0.222	0.223	0.215	0.220	4.86
68)		Hexachlorobenzene	0.235	0.255	0.262	0.245	0.240	0.237	0.229	0.243	4.86
69)		Atrazine	0.189	0.210	0.217	0.213	0.207	0.205	0.194	0.205	4.96
70)	C	Pentachlorophenol		0.102	0.120	0.139	0.147	0.152	0.148	0.135	14.66
71)		Phenanthrene	1.023	1.096	1.108	1.056	1.010	1.004	0.946	1.035	5.46
72)		Anthracene	1.057	1.130	1.137	1.075	1.052	1.046	0.978	1.068	5.08
73)		Carbazole	0.833	0.949	0.992	0.948	0.904	0.875	0.830	0.904	6.89
74)		Di-n-butylphth...	0.957	1.062	1.118	1.079	1.038	1.014	0.961	1.033	5.79
75)	C	Fluoranthene	1.151	1.221	1.235	1.135	1.068	1.021	0.944	1.111	9.55
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.191	0.315	0.382	0.403	0.392	0.309	0.332	24.05
78)		Pyrene	1.505	1.689	1.896	1.925	1.961	2.022	1.890	1.841	9.81
79)	S	Terphenyl-d14	1.241	1.352	1.503	1.472	1.486	1.526	1.400	1.426	7.14
80)		Butylbenzylpht...	0.317	0.397	0.509	0.544	0.569	0.587	0.565	0.498	20.50
81)		Benzo(a)anthra...	1.345	1.437	1.510	1.445	1.439	1.474	1.359	1.430	4.14
82)		3,3'-Dichlorob...	0.311	0.360	0.430	0.431	0.430	0.429	0.407	0.400	11.72
83)		Chrysene	1.375	1.401	1.534	1.435	1.451	1.426	1.351	1.425	4.16
84)		Bis(2-ethylhex...	0.470	0.564	0.678	0.693	0.724	0.733	0.705	0.652	15.07
85)	c	Di-n-octyl pht...		0.703	0.882	0.987	1.048	1.107	1.133	0.976	16.55

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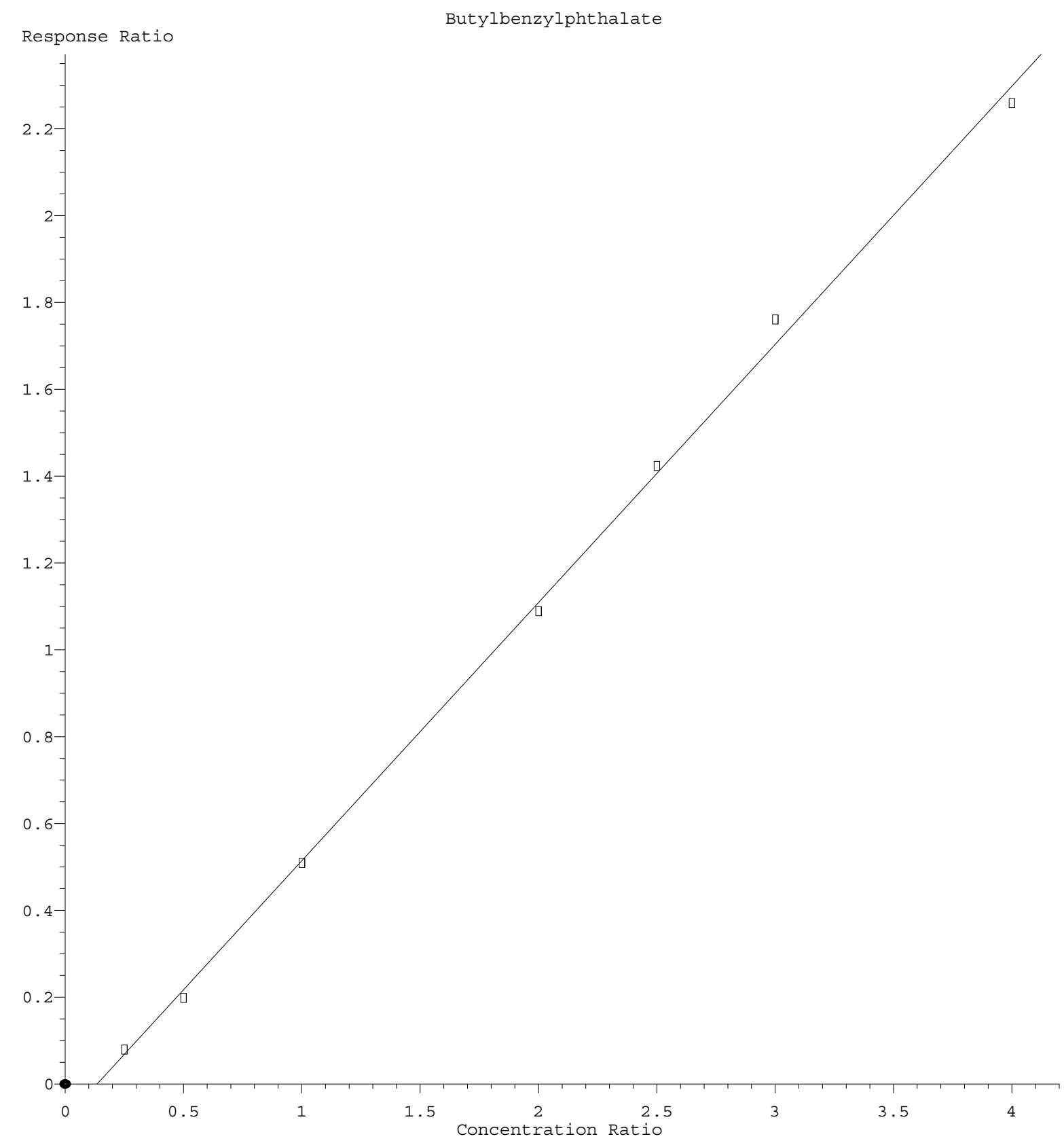
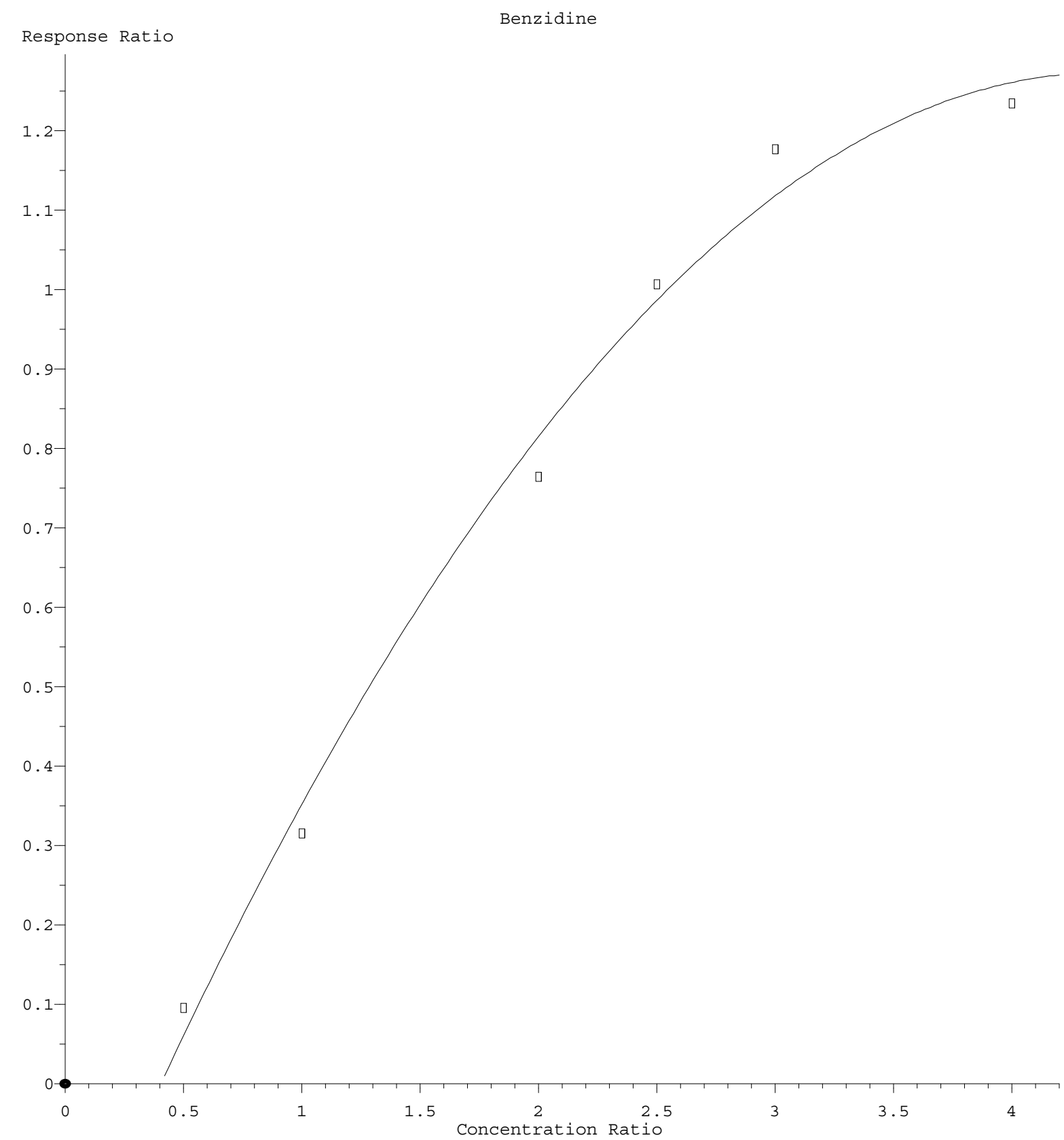
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	0.903	1.081	1.342	1.467	1.466	1.513	1.403	1.311	17.56
88)		Benzo(b)fluora...	1.190	1.315	1.426	1.282	1.253	1.300	1.203	1.281	6.18
89)		Benzo(k)fluora...	1.302	1.426	1.391	1.322	1.283	1.201	1.129	1.293	7.98
90)	C	Benzo(a)pyrene	1.043	1.182	1.219	1.196	1.188	1.174	1.087	1.156	5.62
91)		Dibenzo(a,h)an...	0.709	0.899	1.066	1.168	1.160	1.211	1.123	1.048	17.29
92)		Benzo(g,h,i)pe...	0.704	0.848	1.038	1.143	1.144	1.189	1.088	1.022	17.58

(#) = Out of Range



Response = 5.947e-001 * Amt - 8.026e-002
Coef of Det (r^2) = 0.998526 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012724.M
Calibration Table Last Updated: Sat Jan 27 02:14:33 2024



R = -8.002e-002 A*A + 7.030e-001 A - 2.711e-001
Coef of Det (r^2) = 0.991164 Curve Fit: Quadratic
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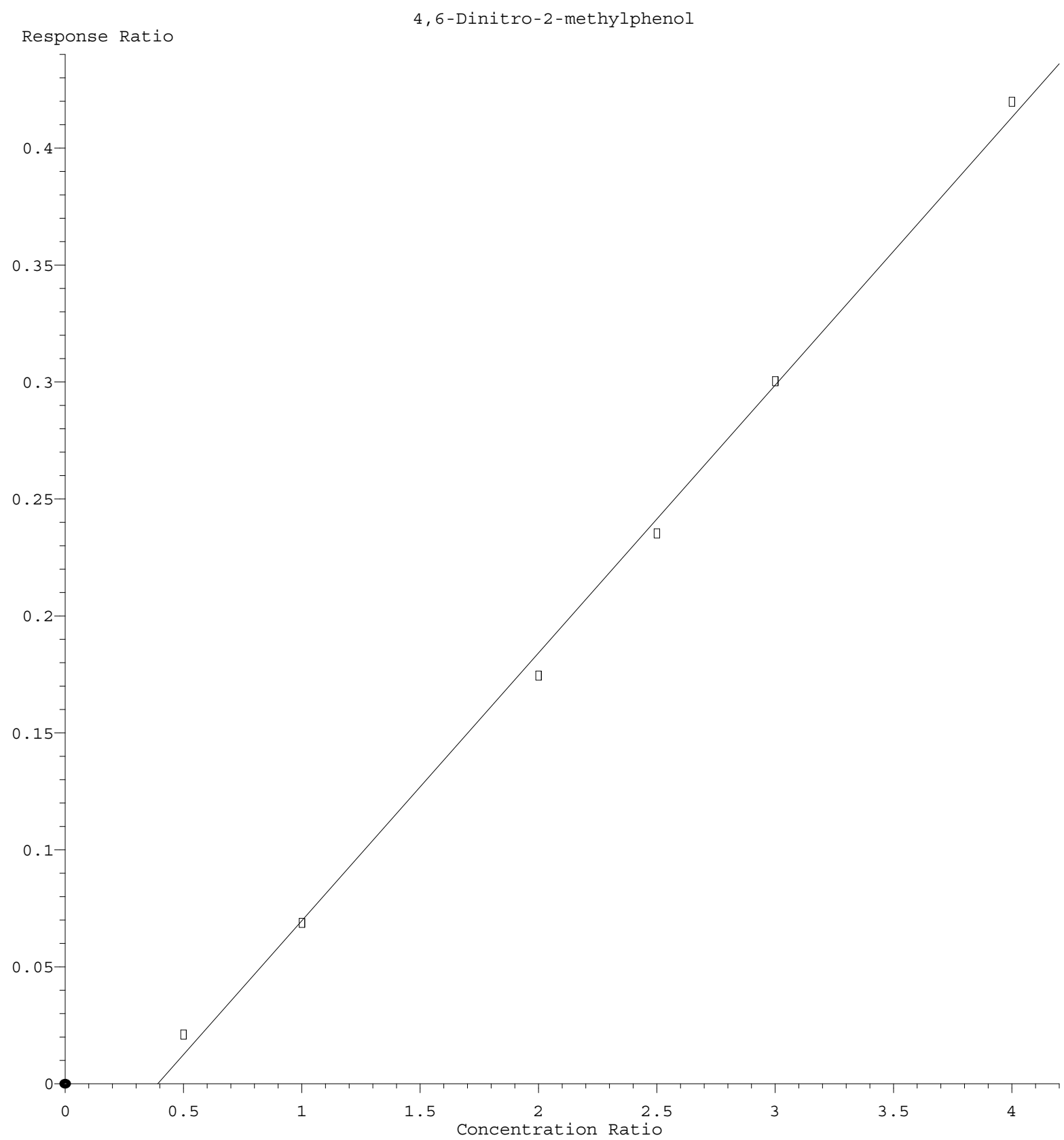
Calibration Table Last Updated: Sat Jan 27 02:14:33 2024



Response = 1.145e-001 * Amt - 4.471e-002
Coef of Det (r^2) = 0.997687 Curve Fit: Linear
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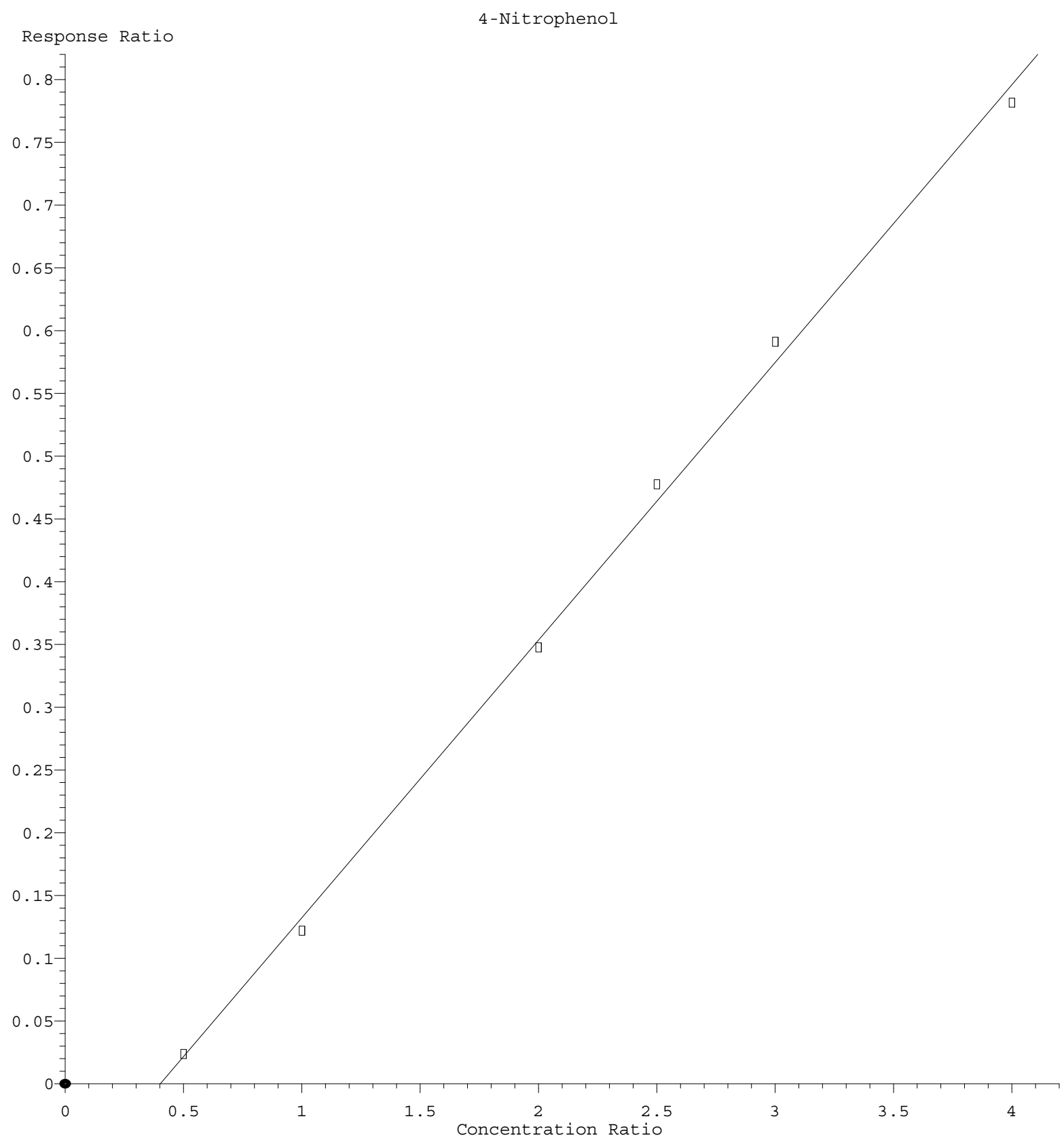
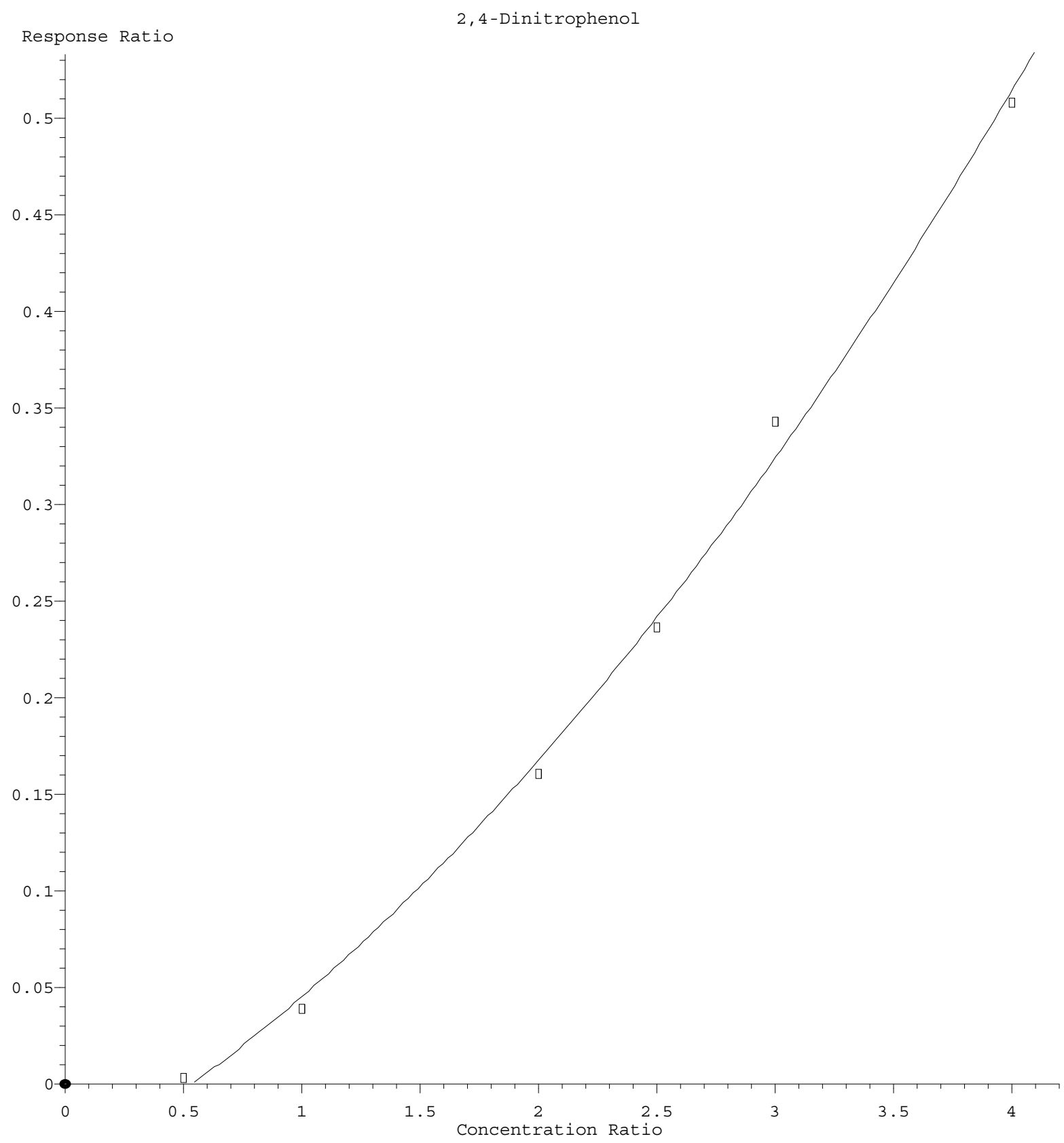
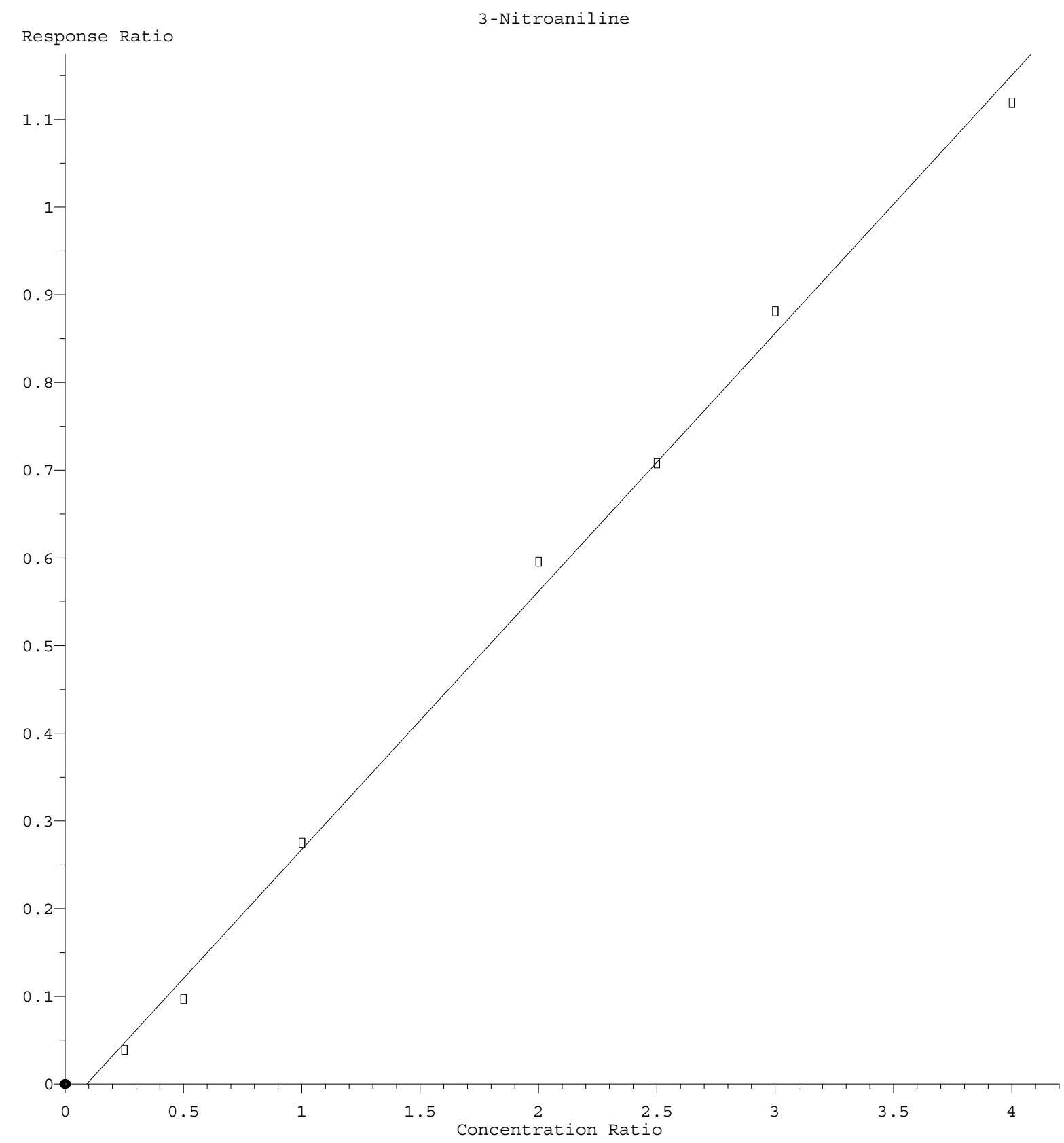
Calibration Table Last Updated: Sat Jan 27 02:14:33 2024



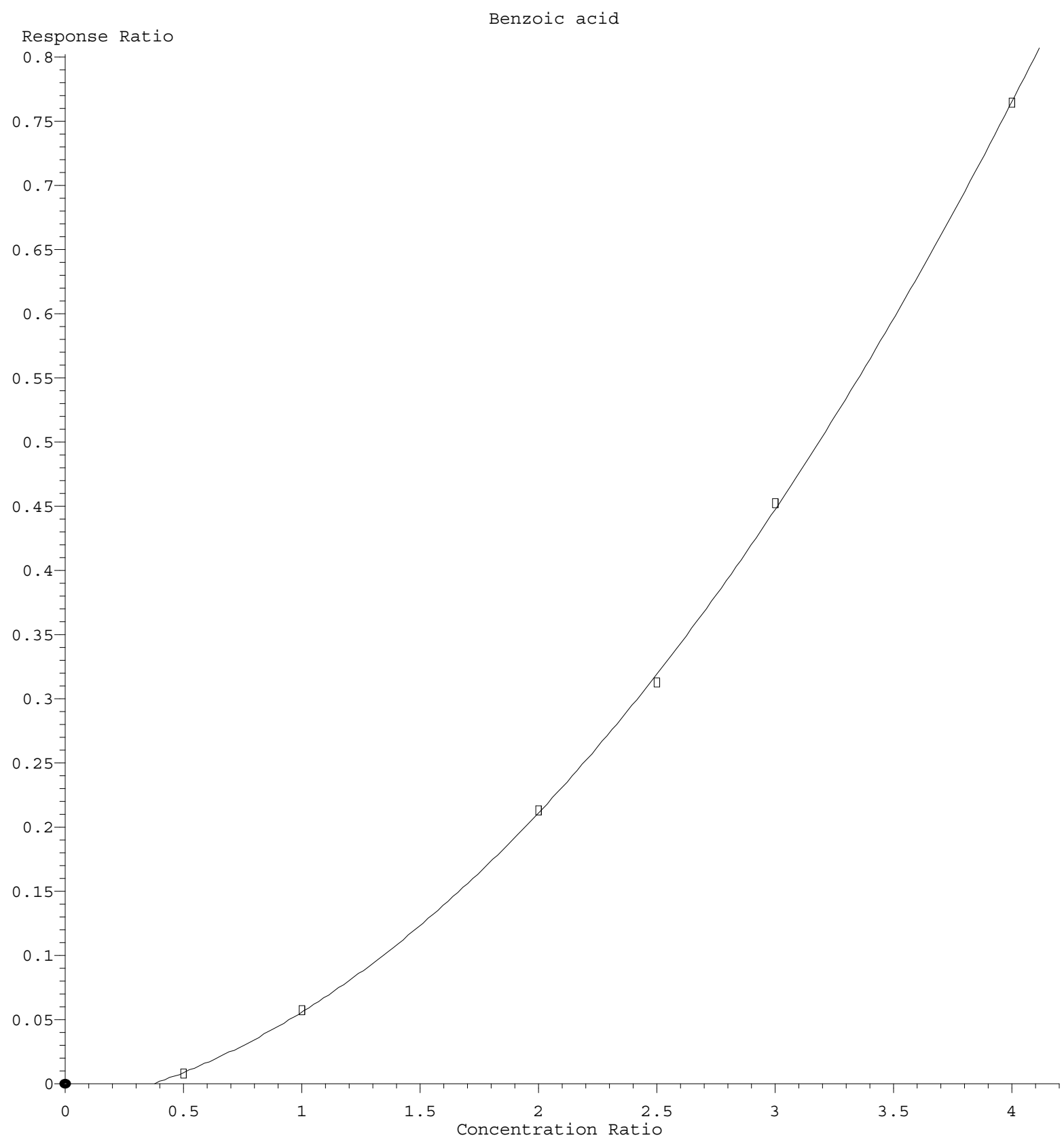
Response = 2.214e-001 * Amt - 8.911e-002
Coef of Det (r^2) = 0.998047 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012724.M
Calibration Table Last Updated: Sat Jan 27 02:14:33 2024



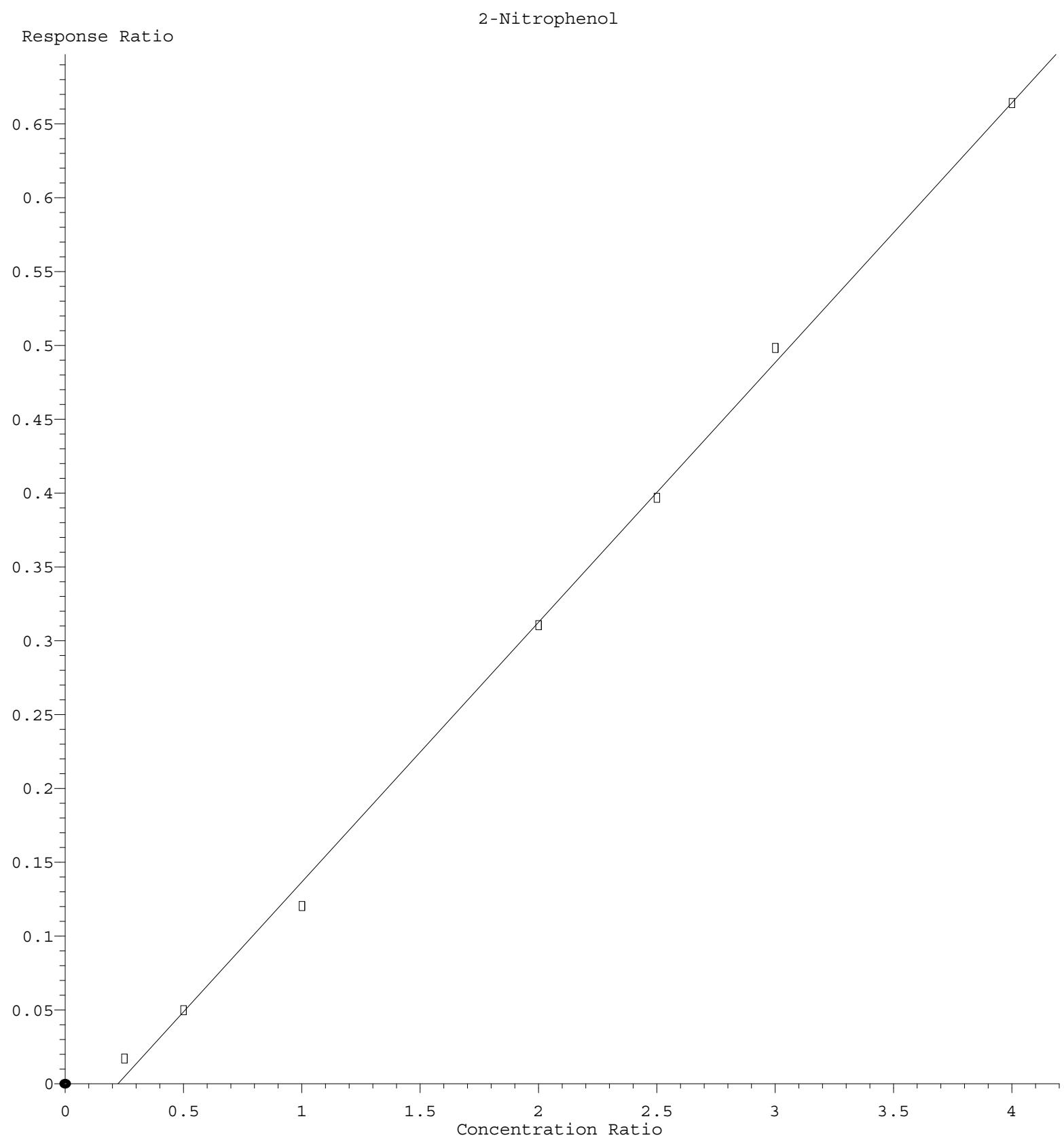
R = 1.697e-002 A*A + 7.155e-002 A - 4.327e-002
Coef of Det (r^2) = 0.996950 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012724.M
Calibration Table Last Updated: Sat Jan 27 02:14:33 2024



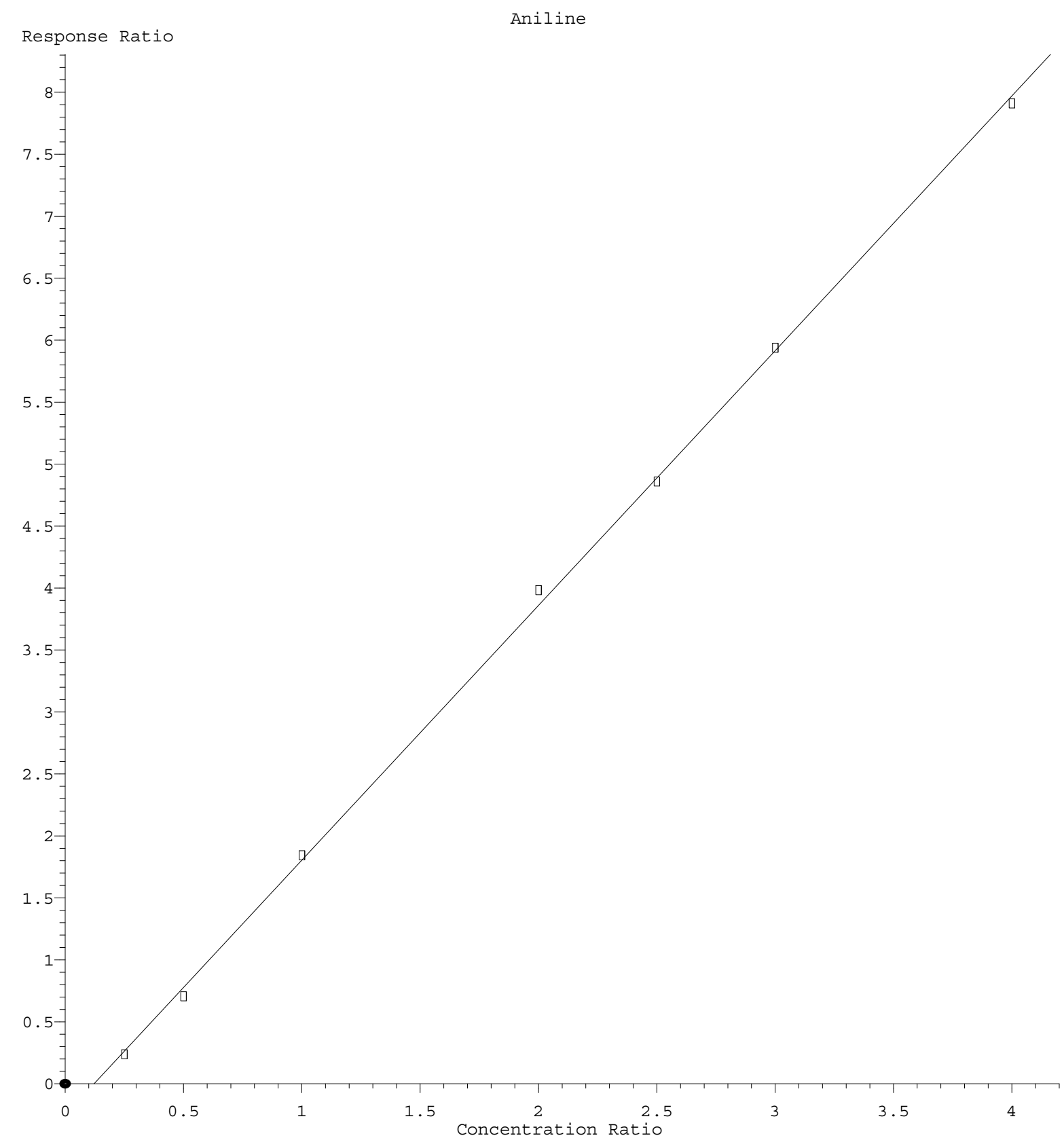
Response = 2.946e-001 * Amt - 2.693e-002
Coef of Det (r^2) = 0.996564 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012724.M
Calibration Table Last Updated: Sat Jan 27 02:14:33 2024



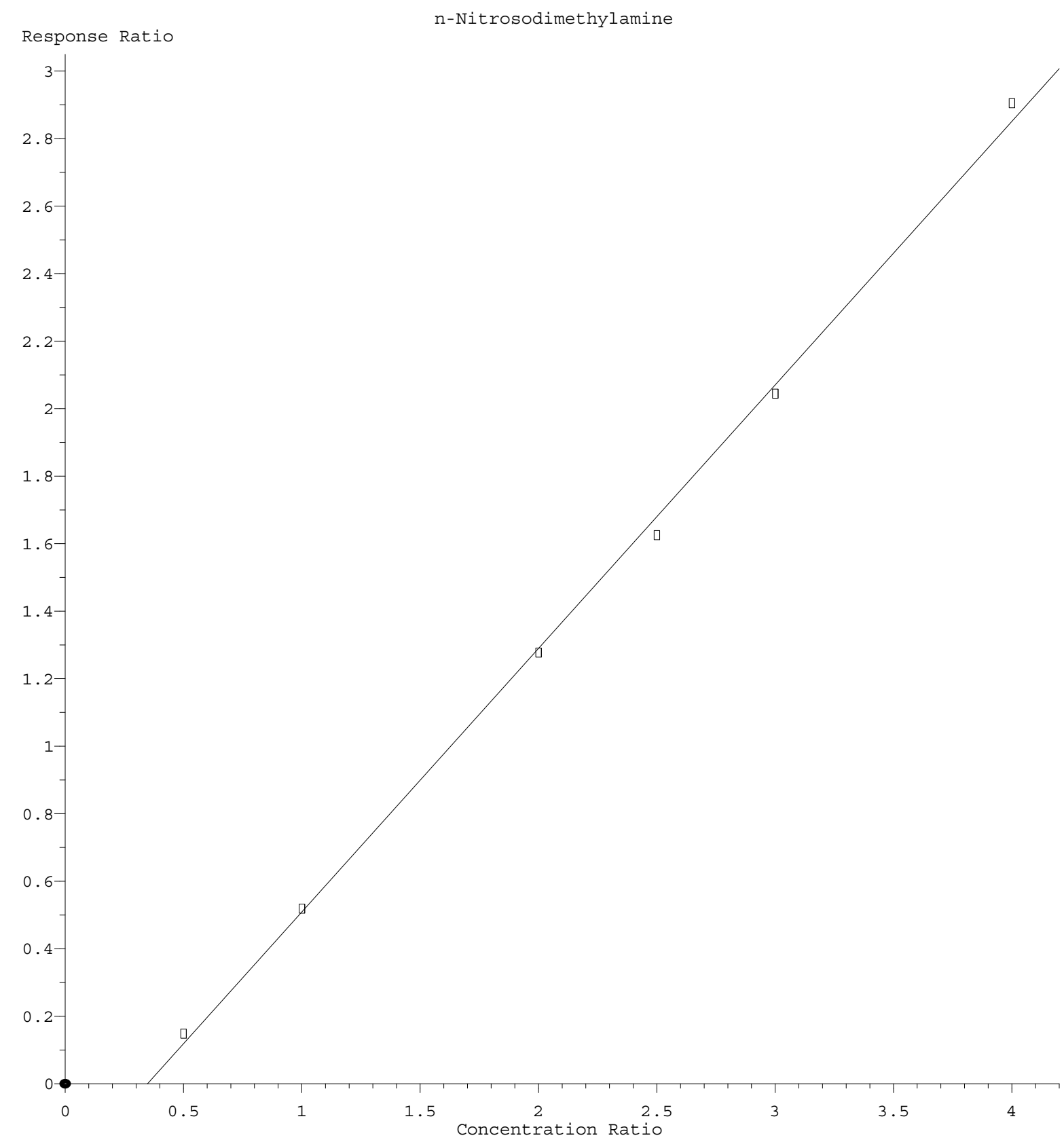
R = 4.058e-002 A*A + 3.347e-002 A - 1.814e-002
Coef of Det (r^2) = 0.999818 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012724.M
Calibration Table Last Updated: Sat Jan 27 02:14:33 2024



Response = 1.759e-001 * Amt - 3.920e-002
Coef of Det (r^2) = 0.998508 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012724.M
Calibration Table Last Updated: Sat Jan 27 02:14:33 2024



Response = 2.055e+000 * Amt - 2.512e-001
Coef of Det (r^2) = 0.999436 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012724.M
Calibration Table Last Updated: Sat Jan 27 02:14:33 2024



Response = 7.806e-001 * Amt - 2.715e-001
Coef of Det (r^2) = 0.998480 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012724.M
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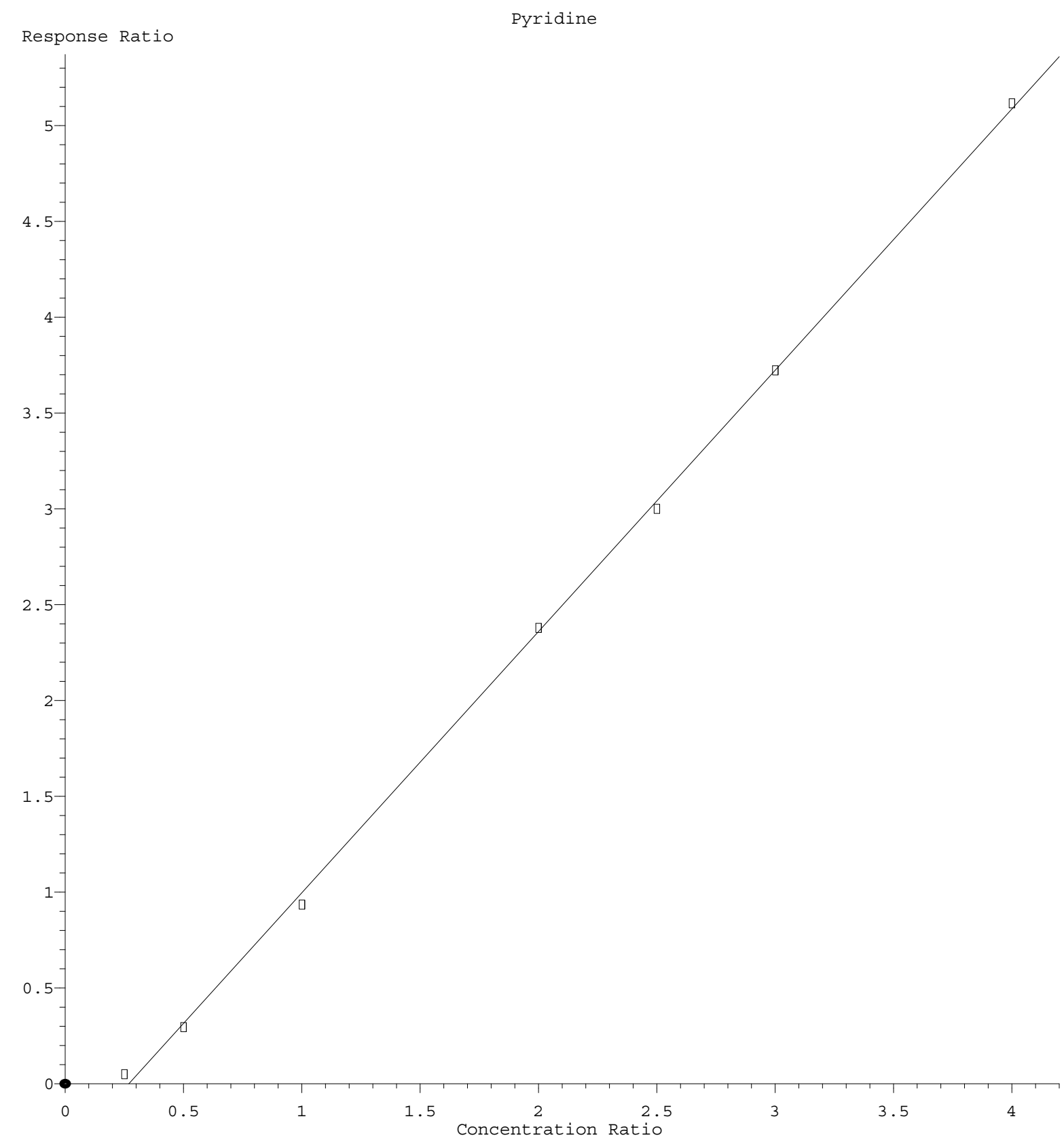

Response = 1.363e+000 * Amt - 3.661e-001
Coef of Det (r^2) = 0.999394 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012724.M
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