Response Factor Report BNA_M_NEW

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM062724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 28 03:23:08 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BM046334.D 5 =BM046335.D 10 =BM046336.D 20 =BM046337.D 40 =BM046338.D 50 =BM046339.D 60 =BM046340.D 80 =BM0463
41.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.543	0.525	0.462	0.481	0.461	0.450	0.437	0.480	8.29
3)		Pyridine		1.190	1.322	1.420	1.433	1.360	1.329	1.330	1.341	5.97
4)		n-Nitrosodimet...		1.009	1.019	1.095	1.098	1.027	1.029	0.990	1.038	4.04
5)	S	2-Fluorophenol		1.202	1.182	1.258	1.314	1.243	1.283	1.227	1.244	3.66
6)		Aniline		1.506	1.573	1.710	1.761	1.601	1.553	1.532	1.605	5.92
7)	S	Phenol-d6		1.599	1.679	1.850	1.905	1.776	1.815	1.750	1.768	5.85
8)		2-Chlorophenol		1.322	1.344	1.417	1.470	1.372	1.413	1.367	1.386	3.62
9)		Benzaldehyde		1.327	1.287	1.196	1.052	0.898	0.813		1.096	19.19
10)	C	Phenol		1.708	1.639	1.800	1.864	1.729	1.781	1.723	1.749	4.16
11)		bis(2-Chloroet...		1.415	1.350	1.427	1.518	1.409	1.421	1.403	1.420	3.52
12)		1,3-Dichlorobe...		1.485	1.518	1.573	1.606	1.508	1.563	1.506	1.537	2.86
13)	C	1,4-Dichlorobe...		1.622	1.552	1.597	1.636	1.550	1.593	1.521	1.581	2.65
14)		1,2-Dichlorobe...		1.544	1.554	1.589	1.641	1.540	1.554	1.492	1.559	2.96
15)		Benzyl Alcohol		1.256	1.320	1.513	1.615	1.458	1.539	1.471	1.453	8.62
16)		2,2'-oxybis(1-...		2.426	2.509	2.529	2.557	2.324	2.354	2.221	2.417	5.11
17)		2-Methylphenol		1.153	1.138	1.262	1.331	1.212	1.245	1.198	1.220	5.44
18)		Hexachloroethane		0.716	0.710	0.723	0.737	0.693	0.720	0.687	0.712	2.42
19)	P	n-Nitroso-di-n...	1.029	1.206	1.305	1.476	1.516	1.361	1.459	1.383	1.342	12.02
20)		3+4-Methylphenols		1.543	1.614	1.848	1.946	1.760	1.874	1.797	1.769	8.14
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.492	0.525	0.565	0.590	0.560	0.604	0.575	0.559	6.91
23)	S	Nitrobenzene-d5		0.454	0.467	0.489	0.508	0.484	0.494	0.481	0.482	3.66
24)		Nitrobenzene		0.465	0.454	0.482	0.498	0.474	0.479	0.466	0.474	3.00
25)		Isophorone		0.792	0.806	0.846	0.868	0.801	0.822	0.791	0.818	3.57
26)	C	2-Nitrophenol		0.128	0.143	0.172	0.188	0.179	0.193	0.185	0.170	14.65
27)		2,4-Dimethylph...		0.186	0.205	0.219	0.228	0.213	0.223	0.214	0.213	6.49
28)		bis(2-Chloroet...		0.416	0.429	0.464	0.479	0.448	0.474	0.454	0.452	5.10
29)	C	2,4-Dichloroph...		0.234	0.262	0.296	0.310	0.294	0.312	0.301	0.287	9.93
30)		1,2,4-Trichlor...		0.312	0.310	0.326	0.337	0.320	0.342	0.329	0.325	3.69
31)		Naphthalene		1.076	1.058	1.105	1.136	1.070	1.132	1.097	1.096	2.75
32)		Benzoic acid			0.158	0.244	0.268	0.252	0.263	0.260	0.241	17.27
33)		4-Chloroaniline		0.314	0.358	0.401	0.418	0.396	0.402	0.399	0.384	9.36
34)	C	Hexachlorobuta...		0.195	0.190	0.202	0.205	0.196	0.214	0.202	0.200	3.85
35)		Caprolactam		0.088	0.101	0.114	0.115	0.109	0.102	0.108	0.105	8.92
36)	C	4-Chloro-3-met...		0.316	0.338	0.370	0.388	0.358	0.367	0.365	0.357	6.60
37)		2-Methylnaphth...		0.699	0.721	0.747	0.777	0.729	0.764	0.738	0.739	3.56
38)		1-Methylnaphth...		0.710	0.700	0.740	0.764	0.710	0.759	0.733	0.731	3.44

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.514	0.495	0.532	0.536	0.534	0.581	0.542	0.534	4.92
41)	P	Hexachlorocycl...		0.170	0.205	0.209	0.209	0.250	0.211	0.209	12.28
42)	S	2,4,6-Tribromo...	0.206	0.230	0.259	0.264	0.252	0.242	0.249	0.243	8.07
43)	C	2,4,6-Trichlor...	0.281	0.317	0.364	0.371	0.366	0.401	0.380	0.354	11.61
44)		2,4,5-Trichlor...	0.395	0.382	0.402	0.424	0.398	0.438	0.419	0.408	4.75
45)	S	2-Fluorobiphenyl	1.365	1.355	1.461	1.518	1.460	1.636	1.535	1.476	6.68
46)		1,1'-Biphenyl	1.426	1.415	1.487	1.543	1.478	1.611	1.521	1.497	4.55
47)		2-Chloronaphth...	1.086	1.082	1.174	1.205	1.159	1.243	1.187	1.162	5.11
48)		2-Nitroaniline	0.382	0.417	0.481	0.502	0.480	0.484	0.484	0.461	9.54
49)		Acenaphthylene	1.650	1.681	1.797	1.863	1.801	1.902	1.848	1.792	5.23
50)		Dimethylphthalate	1.365	1.400	1.484	1.532	1.464	1.497	1.492	1.462	4.02
51)		2,6-Dinitrotol...	0.288	0.309	0.334	0.345	0.332	0.336	0.335	0.326	6.06
52)	C	Acenaphthene	1.053	1.044	1.120	1.153	1.110	1.174	1.143	1.114	4.45
53)		3-Nitroaniline	0.266	0.296	0.342	0.359	0.346	0.334	0.359	0.329	10.66
54)	P	2,4-Dinitrophenol		0.106	0.164	0.184	0.178	0.185	0.196	0.169	19.36
55)		Dibenzofuran	1.681	1.681	1.797	1.857	1.778	1.866	1.833	1.785	4.32
56)	P	4-Nitrophenol		0.151	0.251	0.275	0.265	0.247	0.280	0.245	19.55
57)		2,4-Dinitrotol...	0.395	0.419	0.489	0.514	0.491	0.481	0.510	0.471	9.73
58)		Fluorene	1.391	1.407	1.533	1.608	1.535	1.609	1.602	1.527	6.09
59)		2,3,4,6-Tetrac...	0.332	0.334	0.353	0.361	0.343	0.344	0.343	0.344	2.95
60)		Diethylphthalate	1.511	1.564	1.636	1.693	1.613	1.601	1.640	1.608	3.64
61)		4-Chlorophenyl...	0.645	0.649	0.702	0.744	0.709	0.773	0.753	0.711	7.03
62)		4-Nitroaniline	0.247	0.286	0.344	0.368	0.350	0.307	0.357	0.323	13.71
63)		Azobenzene	1.837	1.899	2.006	2.018	1.903	1.878	1.875	1.917	3.58
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.085	0.116	0.127	0.120	0.132	0.133	0.119	15.05
66)	c	n-Nitrosodiphe...	0.523	0.541	0.575	0.600	0.570	0.663	0.594	0.581	7.86
67)		4-Bromophenyl-...	0.188	0.189	0.205	0.210	0.199	0.232	0.207	0.204	7.29
68)		Hexachlorobenzene	0.230	0.226	0.243	0.246	0.236	0.265	0.242	0.241	5.33
69)		Atrazine	0.173	0.176	0.188	0.163	0.152	0.141	0.132	0.161	12.53
70)	C	Pentachlorophenol	0.116	0.131	0.159	0.168	0.157	0.166	0.164	0.152	13.07
71)		Phenanthrene	1.014	1.004	1.066	1.106	1.055	1.113	1.092	1.064	4.04
72)		Anthracene	0.952	0.975	1.045	1.085	1.032	1.085	1.073	1.035	5.14
73)		Carbazole	0.942	0.957	1.045	1.085	1.040	0.995	1.072	1.019	5.48
74)		Di-n-butylphth...	1.161	1.246	1.410	1.488	1.393	1.405	1.483	1.370	8.92
75)	C	Fluoranthene	1.177	1.217	1.296	1.353	1.285	1.140	1.335	1.258	6.45
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.193	0.119	0.157	0.270	0.222	0.284		0.208	31.01
78)		Pyrene	1.238	1.238	1.379	1.406	1.333	1.707	1.423	1.389	11.44
79)	S	Terphenyl-d14	1.006	1.043	1.198	1.262	1.184	1.510	1.259	1.209	13.73
80)		Butylbenzylpht...	0.522	0.555	0.663	0.701	0.658	0.756	0.720	0.654	13.15
81)		Benzo(a)anthra...	1.244	1.251	1.320	1.335	1.306	1.364	1.363	1.312	3.72
82)		3,3'-Dichlorob...	0.386	0.388	0.446	0.465	0.437	0.412	0.412	0.421	7.09
83)		Chrysene	1.201	1.202	1.266	1.297	1.247	1.279	1.291	1.255	3.18
84)		Bis(2-ethylhex...	0.767	0.847	1.039	1.130	1.046	1.154	1.148	1.019	15.06
85)	c	Di-n-octyl pht...	1.355	1.478	1.692	1.818	1.723	1.675	1.826	1.652	10.59

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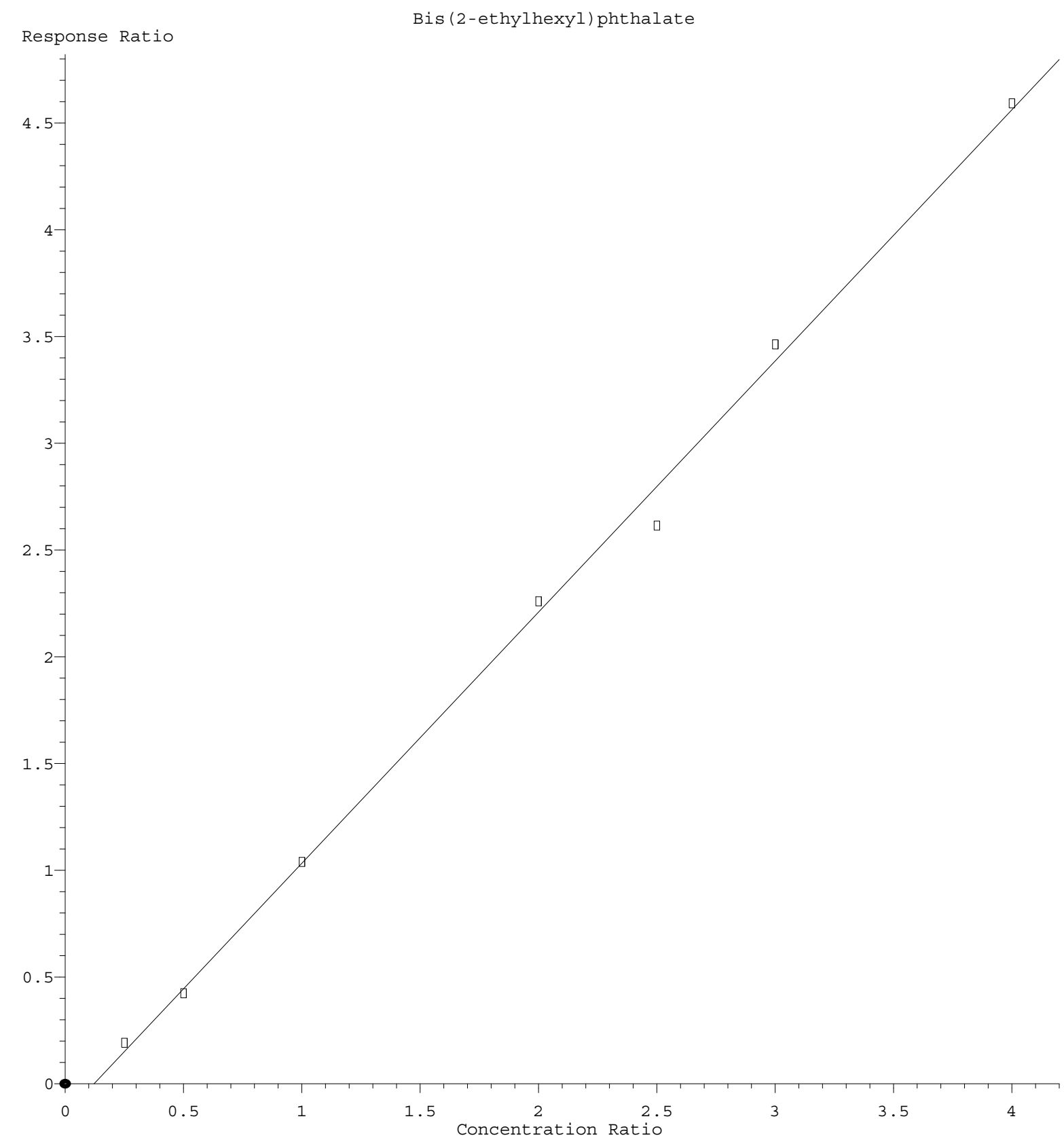
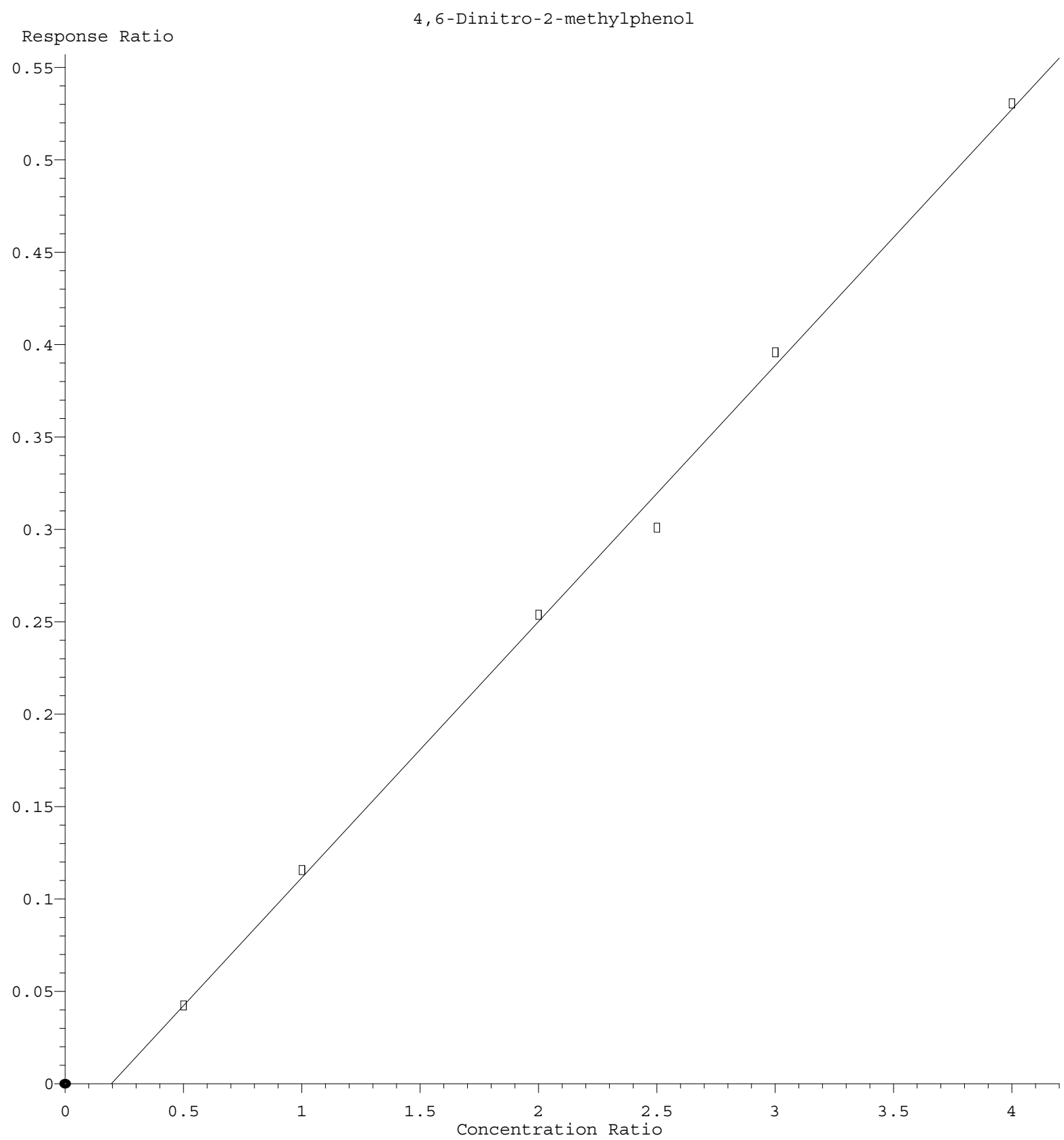
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.267	1.279	1.257	1.219	1.332	1.390	1.235	1.283	4.62
88)		Benzo(b)fluora...	1.020	1.061	1.230	1.277	1.167	1.280	1.257	1.185	8.97
89)		Benzo(k)fluora...	1.105	1.107	1.192	1.248	1.145	1.224	1.228	1.178	5.04
90)	C	Benzo(a)pyrene	0.941	0.952	1.049	1.101	1.041	1.104	1.095	1.040	6.60
91)		Dibenzo(a,h)an...	1.048	1.043	1.040	1.022	1.123	1.160	1.063	1.071	4.72
92)		Benzo(g,h,i)pe...	1.078	1.060	1.024	0.979	1.118	1.171	0.996	1.061	6.44

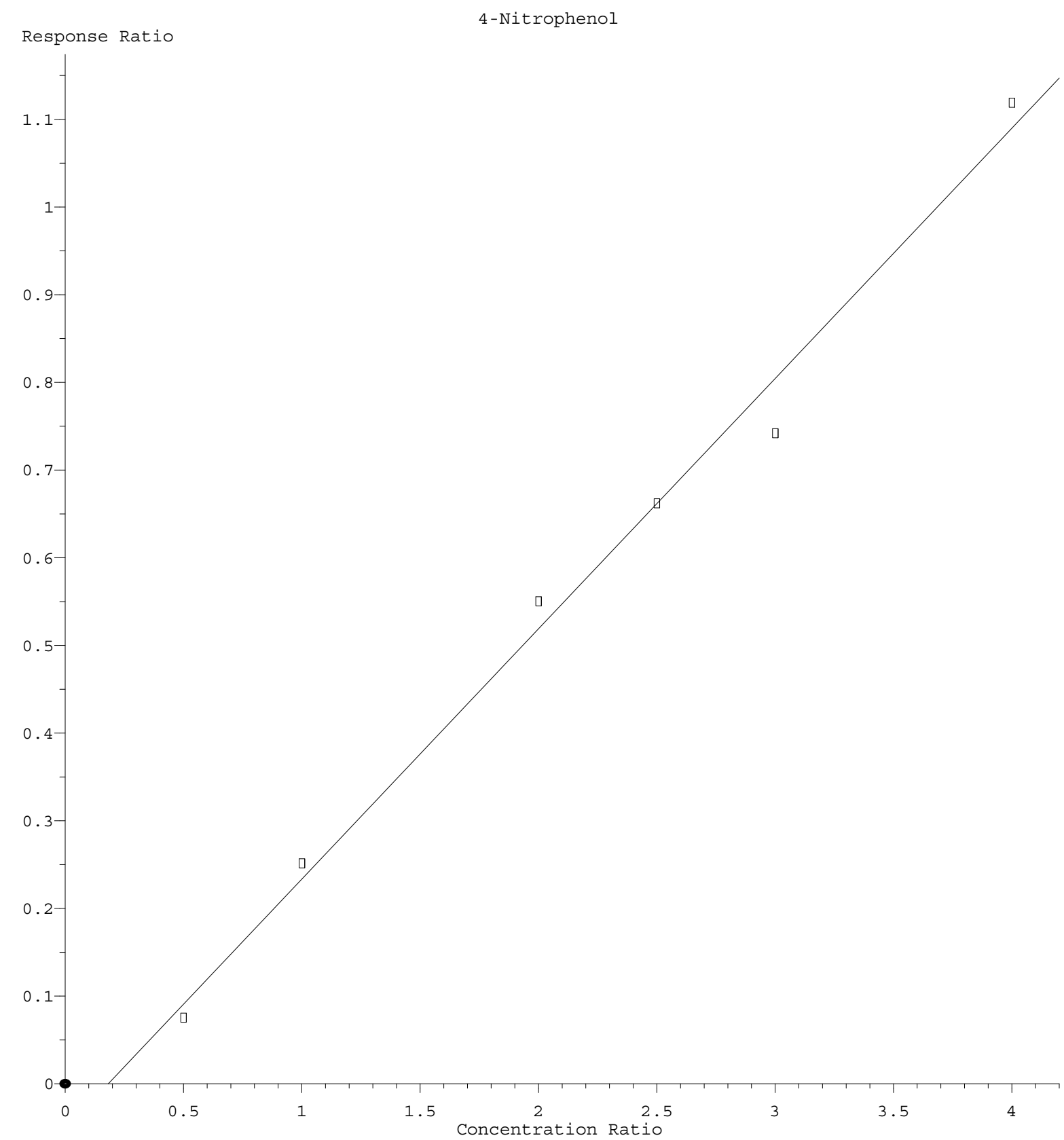
(#) = Out of Range



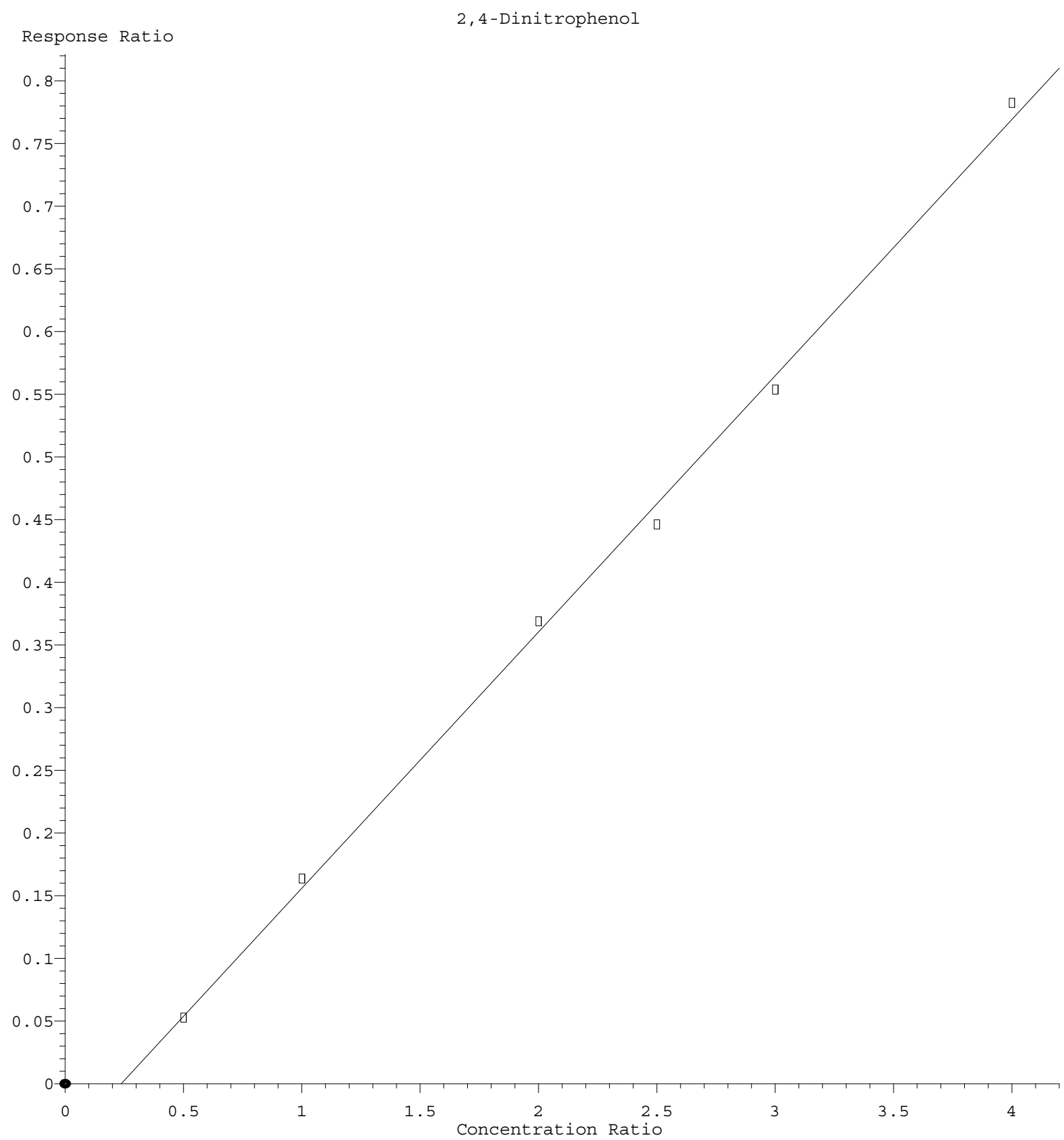
Response = 1.176e+000 * Amt - 1.434e-001
Coef of Det (r^2) = 0.997170 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM062724.M
Calibration Table Last Updated: Fri Jun 28 03:23:08 2024



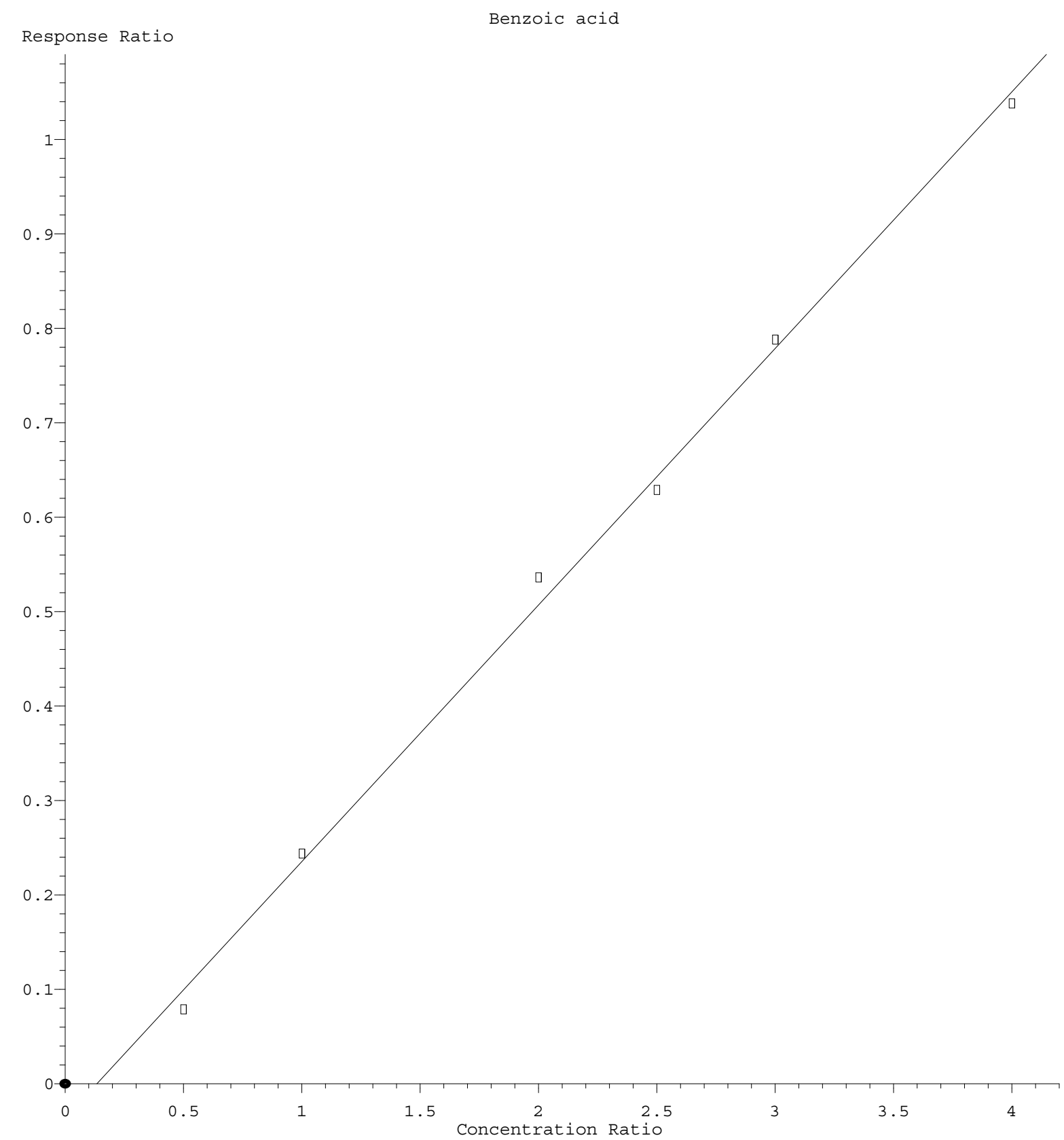
Response = 1.386e-001 * Amt - 2.707e-002
Coef of Det (r^2) = 0.997300 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM062724.M
Calibration Table Last Updated: Fri Jun 28 03:23:08 2024



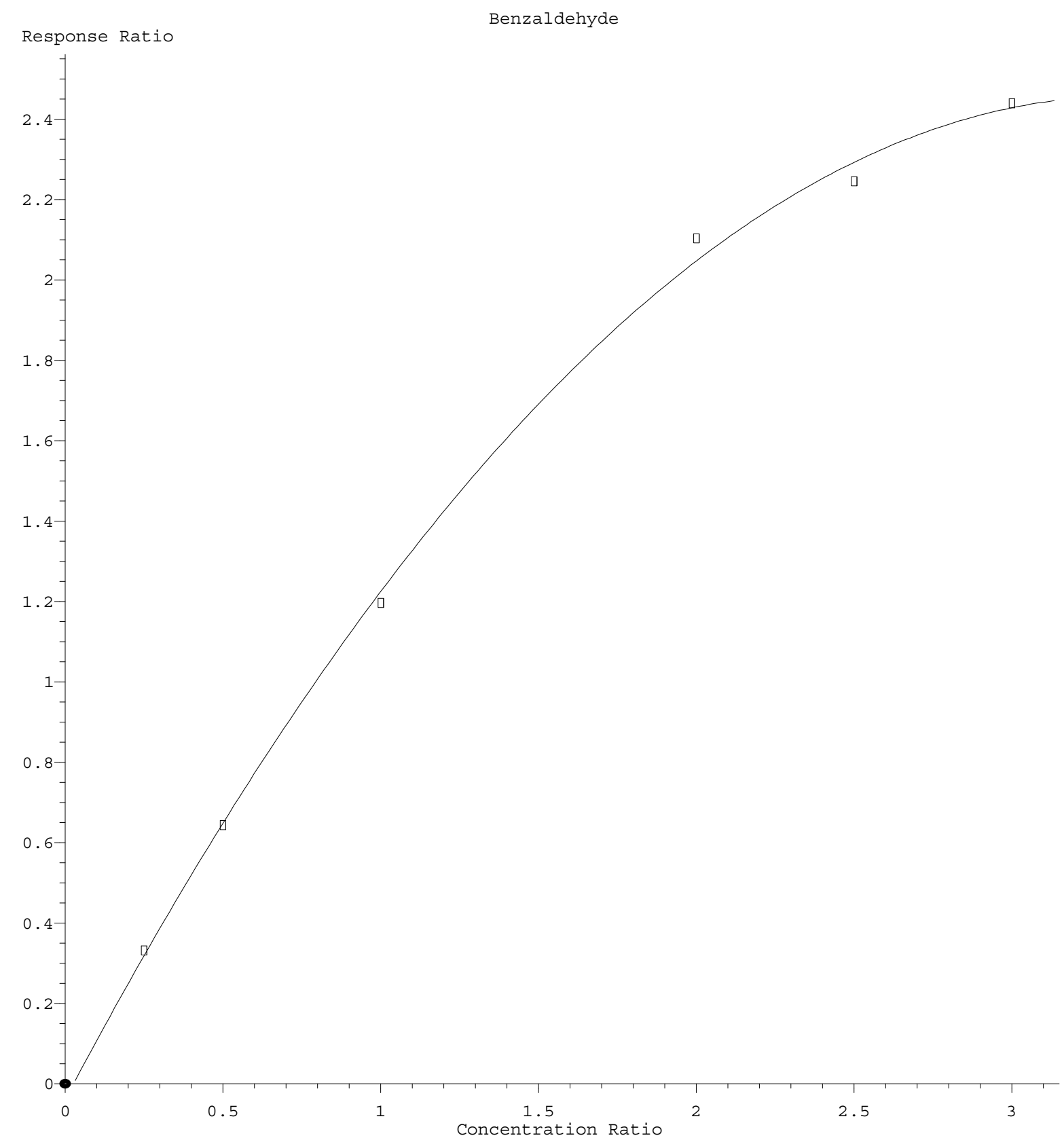
Response = 2.856e-001 * Amt - 5.206e-002
Coef of Det (r^2) = 0.990838 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM062724.M
Calibration Table Last Updated: Fri Jun 28 03:23:08 2024



Response = 2.045e-001 * Amt - 4.846e-002
Coef of Det (r^2) = 0.997999 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM062724.M
Calibration Table Last Updated: Fri Jun 28 03:23:08 2024



Response = 2.717e-001 * Amt - 3.648e-002
Coef of Det (r^2) = 0.997107 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM062724.M
Calibration Table Last Updated: Fri Jun 28 03:23:08 2024



R = -2.205e-001 A*A + 1.484e+000 A - 3.843e-002
Coef of Det (r^2) = 0.998357 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM062724.M
Calibration Table Last Updated: Fri Jun 28 03:23:08 2024