Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM111222.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Nov 14 01:42:00 2022
Response Via : Initial Calibration

Calibration Files
2.5 =BM037488.D 5 =BM037489.D 10 =BM037490.D 20 =BM037491.D 40 =BM037492.D 50 =BM037493.D 60 =BM037494.D 80 =BM0374
95.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.509	0.466	0.449	0.400	0.442	0.407	0.393	0.438	9.52
3)		Pyridine		1.262	1.402	1.409	1.294	1.439	1.339	1.297	1.349	5.06
4)		n-Nitrosodimet...		0.673	0.647	0.636	0.572	0.632	0.592	0.562	0.616	6.75
5)	S	2-Fluorophenol	0.995	1.087	1.103	1.071	1.012	1.125	1.050	1.030	1.059	4.29
6)		Aniline		1.832	1.956	1.941	1.844	2.066	1.953	1.906	1.928	4.10
7)	S	Phenol-d6	1.347	1.458	1.561	1.570	1.488	1.669	1.564	1.533	1.524	6.24
8)		2-Chlorophenol		1.359	1.457	1.421	1.362	1.532	1.459	1.407	1.428	4.27
9)		Benzaldehyde		0.859	0.899	0.892	0.774	0.878	0.812	0.746	0.837	7.23
10)	C	Phenol		1.637	1.756	1.750	1.660	1.867	1.750	1.730	1.736	4.32
11)		bis(2-Chloroet...		1.443	1.470	1.415	1.324	1.467	1.368	1.348	1.405	4.19
12)		1,3-Dichlorobe...		1.579	1.596	1.525	1.443	1.602	1.515	1.459	1.531	4.20
13)	C	1,4-Dichlorobe...		1.623	1.660	1.577	1.493	1.649	1.570	1.506	1.583	4.17
14)		1,2-Dichlorobe...		1.576	1.627	1.569	1.482	1.648	1.533	1.465	1.557	4.40
15)		Benzyl Alcohol		1.048	1.098	1.171	1.171	1.319	1.235	1.196	1.177	7.51
16)		2,2'-oxybis(1-...		2.160	2.182	2.107	1.928	2.128	1.972	1.842	2.045	6.40
17)		2-Methylphenol		1.157	1.231	1.242	1.197	1.350	1.254	1.192	1.232	5.02
18)		Hexachloroethane		0.600	0.626	0.591	0.564	0.629	0.583	0.556	0.593	4.74
19)	P	n-Nitroso-di-n...	1.135	1.219	1.256	1.228	1.154	1.292	1.206	1.136	1.203	4.78
20)		3+4-Methylphenols		1.560	1.710	1.770	1.690	1.917	1.778	1.678	1.729	6.35
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.464	0.517	0.506	0.492	0.566	0.542	0.534	0.517	6.57
23)	S	Nitrobenzene-d5	0.338	0.358	0.386	0.380	0.370	0.432	0.410	0.405	0.385	7.88
24)		Nitrobenzene		0.370	0.393	0.388	0.374	0.436	0.413	0.405	0.397	5.85
25)		Isophorone		0.678	0.705	0.692	0.664	0.768	0.737	0.727	0.710	5.11
26)	C	2-Nitrophenol		0.152	0.171	0.177	0.180	0.209	0.203	0.205	0.185	11.52
27)		2,4-Dimethylph...		0.235	0.259	0.255	0.253	0.294	0.283	0.282	0.266	7.85
28)		bis(2-Chloroet...		0.392	0.414	0.402	0.383	0.442	0.420	0.414	0.409	4.73
29)	C	2,4-Dichloroph...		0.278	0.305	0.308	0.306	0.359	0.341	0.341	0.320	8.78
30)		1,2,4-Trichlor...		0.331	0.347	0.335	0.323	0.376	0.359	0.361	0.347	5.48
31)		Naphthalene		1.127	1.144	1.109	1.046	1.213	1.152	1.141	1.133	4.43
32)		Benzoic acid			0.162	0.204	0.236	0.279	0.272	0.281	0.239	20.23
33)		4-Chloroaniline		0.397	0.436	0.446	0.440	0.513	0.487	0.486	0.458	8.58
34)	C	Hexachlorobuta...		0.198	0.203	0.194	0.188	0.218	0.208	0.208	0.202	4.88
35)		Caprolactam		0.098	0.105	0.108	0.108	0.125	0.122	0.119	0.112	8.85
36)	C	4-Chloro-3-met...		0.320	0.344	0.336	0.327	0.379	0.363	0.362	0.347	6.18
37)		2-Methylnaphth...		0.766	0.792	0.771	0.743	0.861	0.828	0.821	0.797	5.18
38)		1-Methylnaphth...		0.777	0.791	0.764	0.736	0.857	0.815	0.808	0.793	4.94

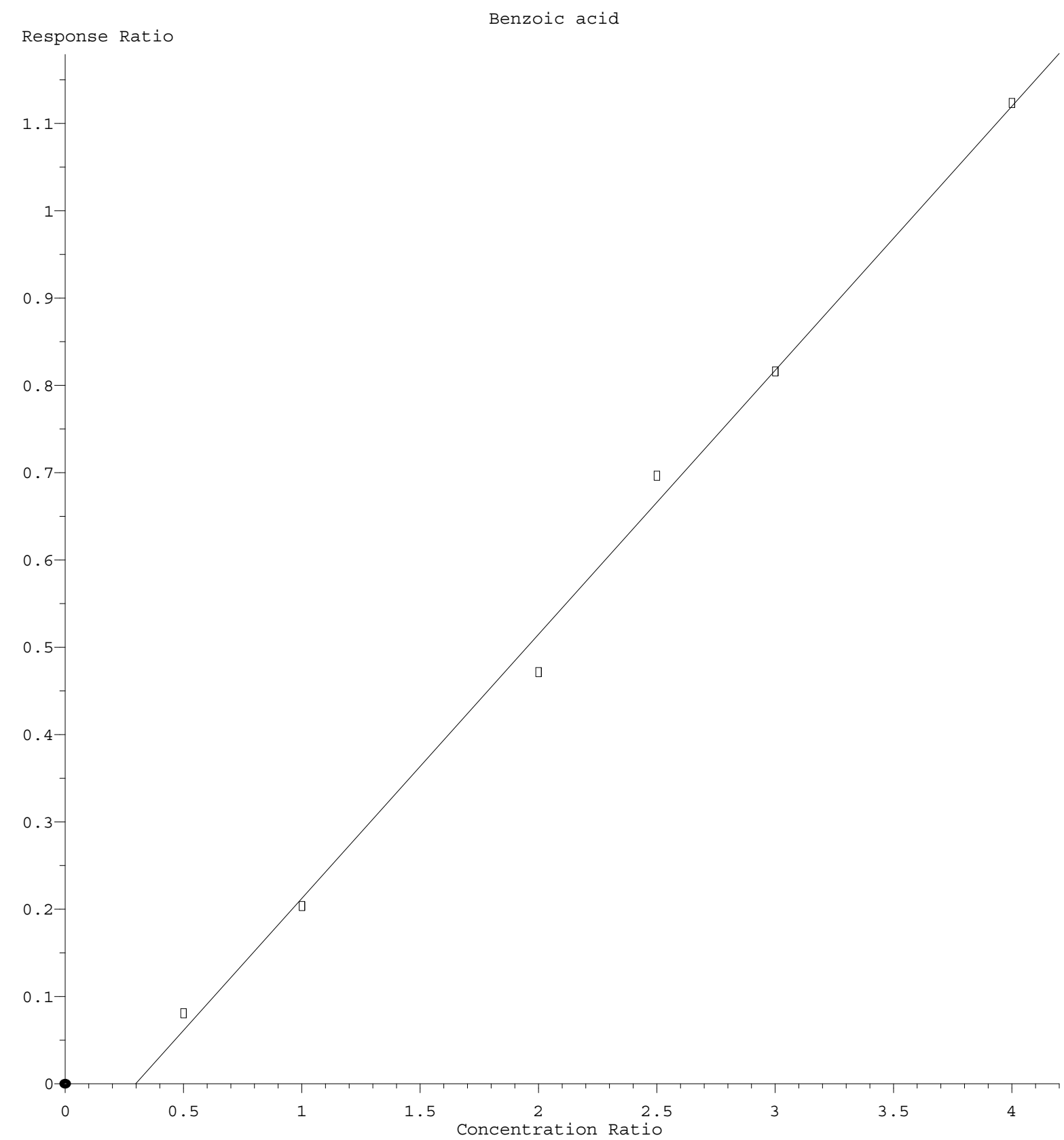
Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM111222.M

39)	I	Acenaphthene-d10	----------ISTD----------									
40)		1,2,4,5-Tetrac...		0.530	0.553	0.552	0.545	0.642	0.616	0.630	0.581	7.96
41)	P	Hexachlorocycl...			0.177	0.207	0.244	0.287	0.280	0.298	0.249	19.64
42)	S	2,4,6-Tribromo...	0.222	0.244	0.267	0.269	0.271	0.318	0.307	0.314	0.277	12.43
43)	C	2,4,6-Trichlor...		0.363	0.397	0.399	0.403	0.472	0.452	0.464	0.421	9.73
44)		2,4,5-Trichlor...		0.396	0.427	0.440	0.450	0.530	0.507	0.515	0.467	10.92
45)	S	2-Fluorobiphenyl	1.317	1.357	1.420	1.390	1.369	1.602	1.525	1.532	1.439	7.02
46)		1,1'-Biphenyl		1.487	1.525	1.508	1.439	1.680	1.599	1.603	1.549	5.32
47)		2-Chloronaphth...		1.161	1.234	1.219	1.159	1.366	1.291	1.290	1.246	6.03
48)		2-Nitroaniline		0.314	0.356	0.369	0.373	0.440	0.417	0.417	0.384	11.35
49)		Acenaphthylene		1.844	1.969	1.945	1.873	2.181	2.075	2.078	1.995	6.10
50)		Dimethylphthalate		1.549	1.572	1.543	1.489	1.735	1.656	1.662	1.601	5.35
51)		2,6-Dinitrotol...		0.299	0.326	0.334	0.327	0.385	0.367	0.370	0.344	8.87
52)	C	Acenaphthene		1.163	1.190	1.175	1.129	1.333	1.265	1.270	1.218	5.97
53)		3-Nitroaniline		0.277	0.324	0.355	0.362	0.430	0.415	0.420	0.369	15.35
54)	P	2,4-Dinitrophenol			0.138	0.167	0.196	0.233	0.229	0.240	0.201	20.40
55)		Dibenzofuran		1.878	1.948	1.900	1.798	2.110	2.002	1.995	1.947	5.18
56)	P	4-Nitrophenol			0.218	0.263	0.285	0.340	0.332	0.337	0.296	16.63
57)		2,4-Dinitrotol...		0.372	0.438	0.455	0.464	0.545	0.524	0.535	0.476	13.11
58)		Fluorene		1.550	1.596	1.591	1.552	1.808	1.722	1.740	1.651	6.28
59)		2,3,4,6-Tetrac...		0.395	0.403	0.406	0.403	0.469	0.446	0.456	0.426	7.15
60)		Diethylphthalate		1.585	1.613	1.585	1.509	1.770	1.681	1.683	1.632	5.24
61)		4-Chlorophenyl...		0.718	0.749	0.737	0.728	0.842	0.808	0.820	0.772	6.51
62)		4-Nitroaniline		0.225	0.263	0.329	0.353	0.414	0.402	0.407	0.342	21.78
63)		Azobenzene		1.400	1.526	1.523	1.445	1.673	1.578	1.547	1.527	5.81
64)	I	Phenanthrene-d10	----------ISTD----------									
65)		4,6-Dinitro-2-...			0.104	0.122	0.131	0.152	0.149	0.151	0.135	14.40
66)	c	n-Nitrosodiphe...		0.576	0.625	0.625	0.606	0.710	0.676	0.673	0.642	7.26
67)		4-Bromophenyl-...		0.205	0.216	0.215	0.210	0.246	0.237	0.239	0.224	7.21
68)		Hexachlorobenzene		0.260	0.271	0.265	0.260	0.307	0.295	0.296	0.279	7.01
69)		Atrazine		0.169	0.169	0.174	0.172	0.195	0.187	0.184	0.179	5.79
70)	C	Pentachlorophenol		0.134	0.146	0.155	0.159	0.188	0.182	0.187	0.164	13.08
71)		Phenanthrene		1.175	1.205	1.176	1.147	1.333	1.281	1.277	1.228	5.67
72)		Anthracene		1.063	1.118	1.145	1.110	1.303	1.259	1.243	1.177	7.68
73)		Carbazole		1.011	1.037	1.070	1.035	1.217	1.169	1.167	1.101	7.40
74)		Di-n-butylphth...		1.810	1.445	1.339	1.295	1.499	1.437	1.430	1.465	11.40
75)	C	Fluoranthene		1.373	1.388	1.374	1.371	1.599	1.569	1.570	1.463	7.45
76)	I	Chrysene-d12	----------ISTD----------									
77)		Benzidine		0.209	0.277	0.207	0.273	0.322	0.339	0.332	0.280	19.78
78)		Pyrene		1.204	1.274	1.262	1.248	1.456	1.382	1.355	1.312	6.76
79)	S	Terphenyl-d14	0.925	0.924	1.001	0.997	0.984	1.146	1.066	0.968	1.001	7.39
80)		Butylbenzylpht...		0.498	0.530	0.536	0.544	0.632	0.605	0.603	0.564	8.72
81)		Benzo(a)anthra...		1.333	1.386	1.362	1.315	1.533	1.473	1.413	1.402	5.57
82)		3,3'-Dichlorob...		0.396	0.430	0.438	0.429	0.515	0.494	0.486	0.456	9.44
83)		Chrysene		1.331	1.365	1.319	1.242	1.469	1.397	1.352	1.354	5.18
84)		Bis(2-ethylhex...		0.753	0.784	0.789	0.805	0.926	0.885	0.872	0.831	7.68
85)	c	Di-n-octyl pht...		1.342	1.366	1.366	1.345	1.577	1.500	1.484	1.426	6.56

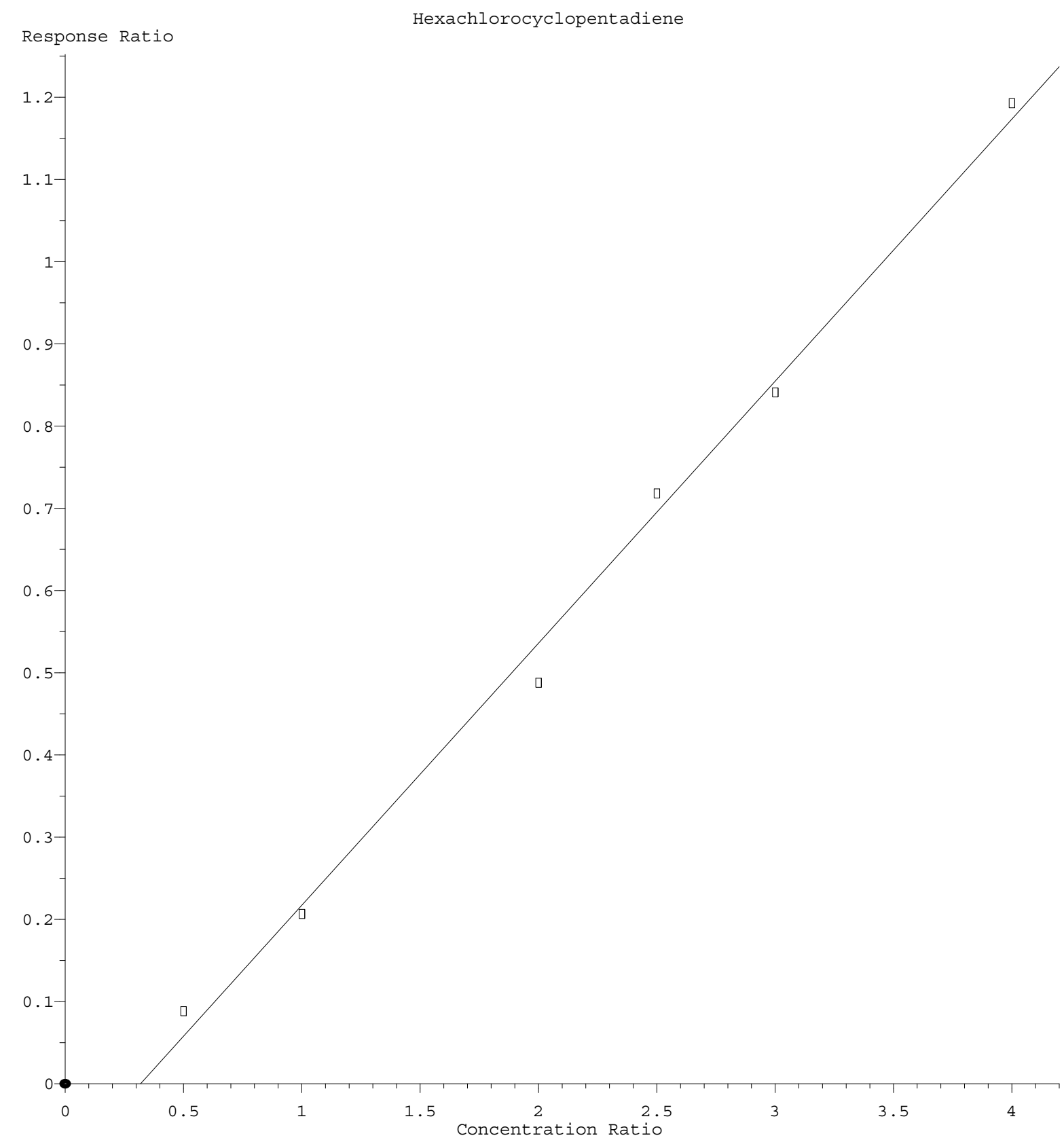
Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM111222.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.476	1.545	1.589	1.511	1.896	1.818	1.729	1.652	9.87
88)		Benzo(b)fluora...	1.174	1.300	1.264	1.288	1.493	1.426	1.443	1.341	8.56
89)		Benzo(k)fluora...	1.286	1.295	1.300	1.270	1.495	1.442	1.432	1.360	6.81
90)	C	Benzo(a)pyrene	1.011	1.058	1.063	1.050	1.247	1.192	1.201	1.117	8.31
91)		Dibenzo(a,h)an...	1.180	1.255	1.306	1.267	1.588	1.525	1.456	1.368	11.26
92)		Benzo(g,h,i)pe...	1.223	1.297	1.300	1.177	1.502	1.427	1.340	1.324	8.49

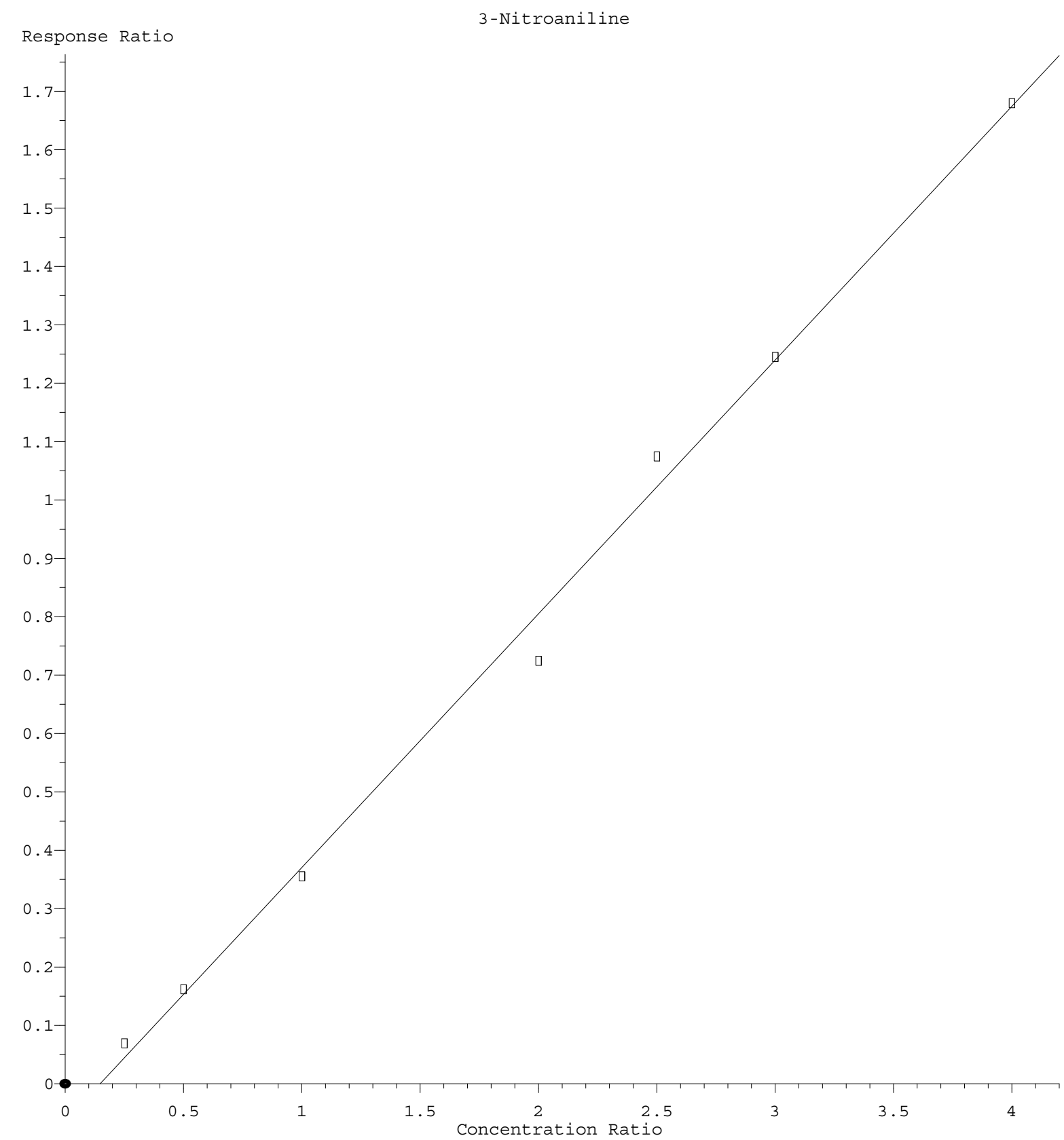
(#) = Out of Range



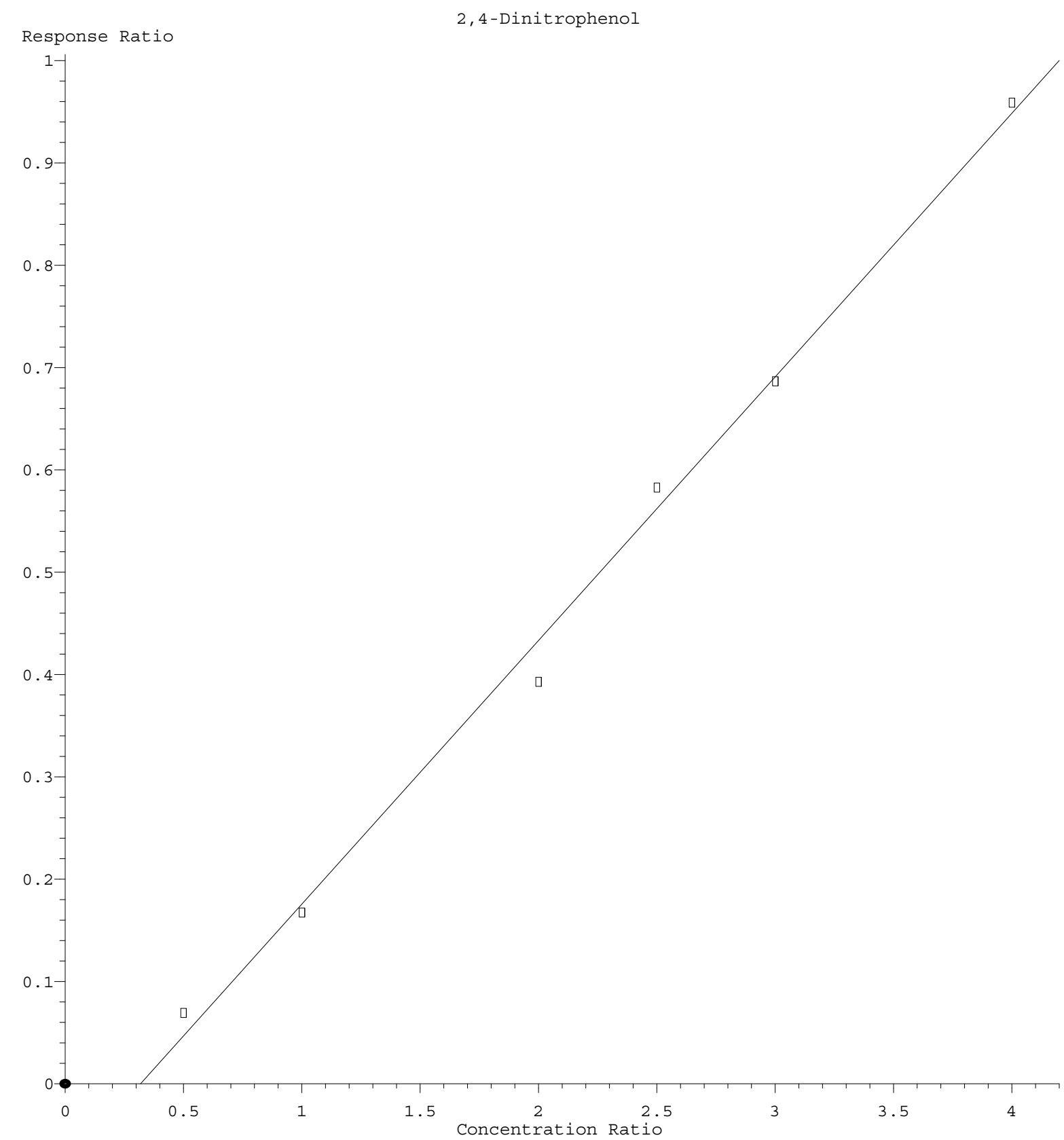
Response = 3.025e-001 * Amt - 9.014e-002
Coef of Det (r^2) = 0.995709 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM111222.M
Calibration Table Last Updated: Mon Nov 14 01:42:00 2022



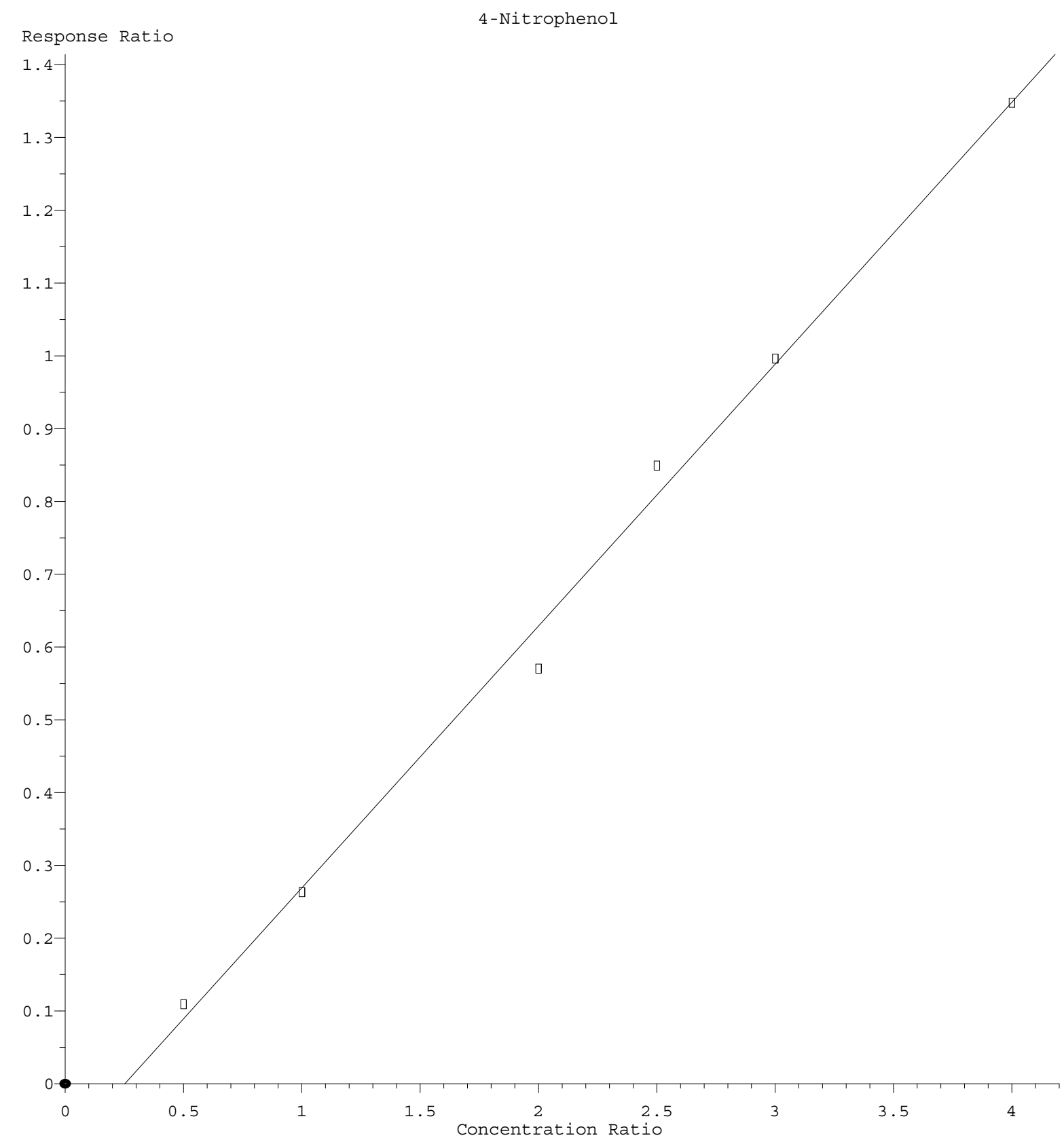
Response = 3.189e-001 * Amt - 1.019e-001
Coef of Det (r^2) = 0.994775 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM111222.M
Calibration Table Last Updated: Mon Nov 14 01:42:00 2022



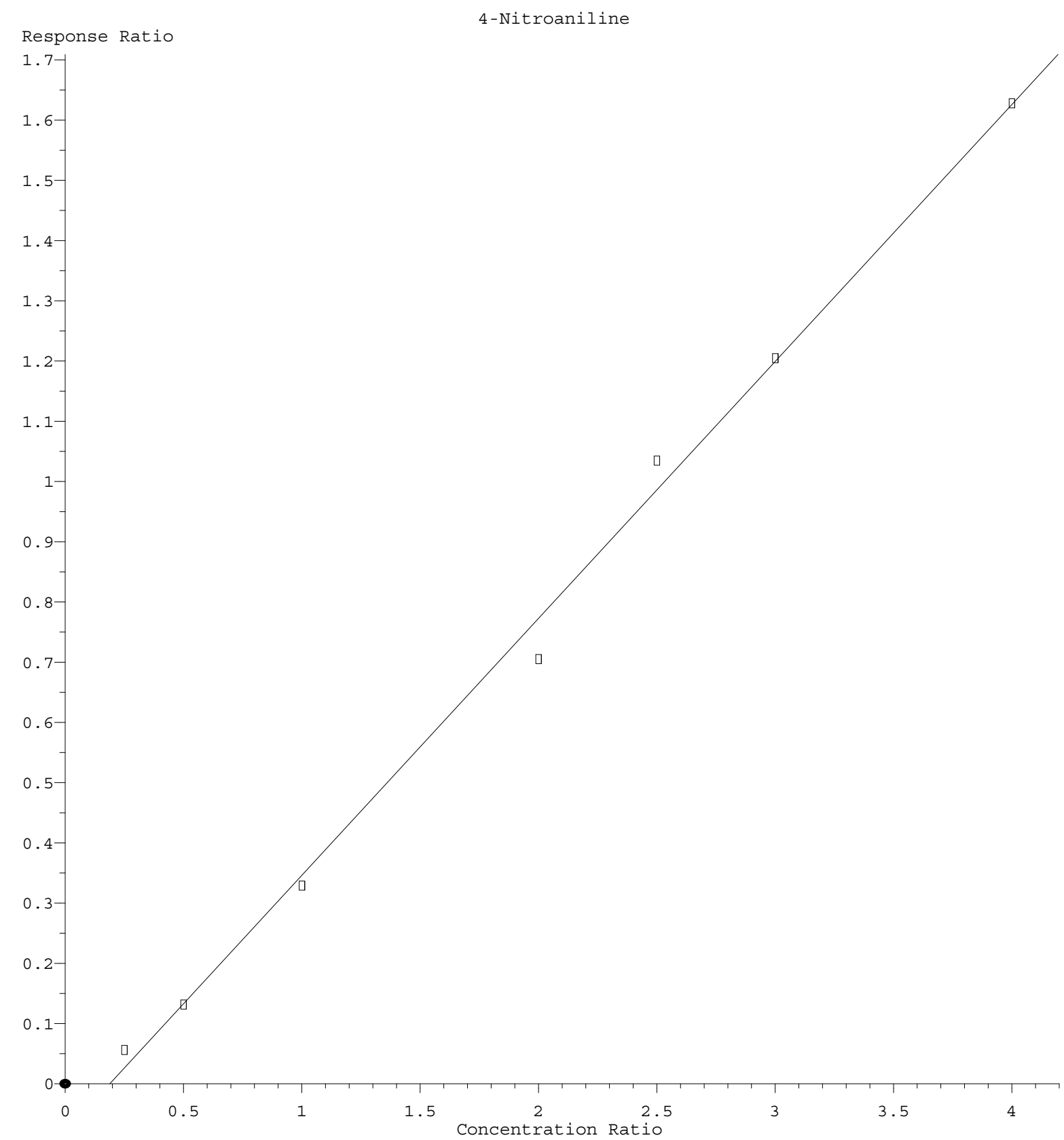
Response = 4.346e-001 * Amt - 6.425e-002
Coef of Det (r^2) = 0.995323 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM111222.M
Calibration Table Last Updated: Mon Nov 14 01:42:00 2022



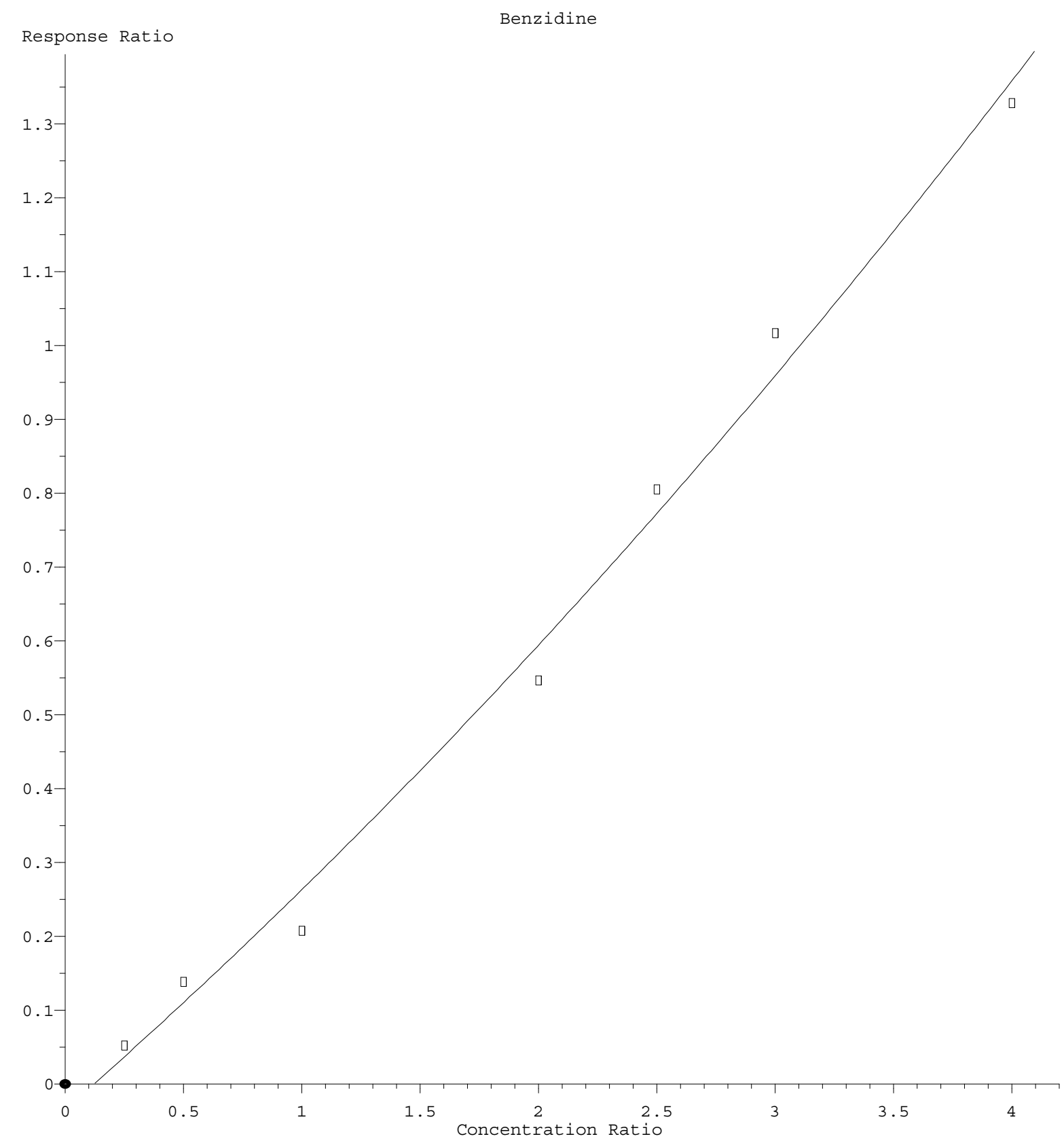
Response = 2.578e-001 * Amt - 8.228e-002
Coef of Det (r^2) = 0.995050 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM111222.M
Calibration Table Last Updated: Mon Nov 14 01:42:00 2022



Response = 3.600e-001 * Amt - 9.065e-002
Coef of Det (r^2) = 0.994883 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM111222.M
Calibration Table Last Updated: Mon Nov 14 01:42:00 2022



Response = 4.266e-001 * Amt - 8.051e-002
Coef of Det (r^2) = 0.996116 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM111222.M
Calibration Table Last Updated: Mon Nov 14 01:42:00 2022



R = 1.692e-002 A*A + 2.804e-001 A - 3.436e-002
Coef of Det (r^2) = 0.991749 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM111222.M
Calibration Table Last Updated: Mon Nov 14 01:42:00 2022