Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012723.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Jan 28 02:25:45 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF132196.D 5 =BF132197.D 10 =BF132198.D 20 =BF132199.D 40 =BF132200.D 50 =BF132201.D 60 =BF132202.D 80 =BF1322
03.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.632	0.624	0.618	0.639	0.607	0.575	0.540	0.605	5.88
3)		Pyridine		1.769	1.746	1.718	1.745	1.641	1.548	1.464	1.662	7.00
4)		n-Nitrosodimet...		0.578	0.563	0.576	0.592	0.563	0.529	0.493	0.556	6.16
5)	S	2-Fluorophenol		1.340	1.302	1.294	1.249	1.158	1.083	0.988	1.202	10.81
6)		Aniline		2.267	2.210	2.235	2.216	2.068	1.947	1.830	2.111	7.94
7)	S	Phenol-d6		1.733	1.638	1.622	1.566	1.436	1.337	1.218	1.507	12.20
8)		2-Chlorophenol		1.306	1.297	1.312	1.275	1.165	1.088	0.994	1.205	10.45
9)		Benzaldehyde		1.211	1.124	1.058	0.920	0.822	0.731		0.978	18.89
10)	C	Phenol		1.742	1.726	1.704	1.641	1.500	1.398	1.274	1.569	11.61
11)		bis(2-Chloroet...		1.543	1.461	1.457	1.393	1.309	1.209	1.104	1.353	11.48
12)		1,3-Dichlorobe...		1.509	1.446	1.435	1.383	1.292	1.206	1.108	1.340	10.78
13)	C	1,4-Dichlorobe...		1.512	1.436	1.436	1.393	1.275	1.200	1.099	1.336	11.13
14)		1,2-Dichlorobe...		1.452	1.379	1.358	1.283	1.164	1.073	0.977	1.241	14.07
15)		Benzyl Alcohol		1.121	1.136	1.185	1.196	1.114	1.053	0.947	1.107	7.71
16)		2,2'-oxybis(1-...		1.790	1.717	1.693	1.612	1.454	1.323	1.169	1.537	14.89
17)		2-Methylphenol		1.188	1.167	1.184	1.145	1.066	0.995	0.926	1.096	9.40
18)		Hexachloroethane		0.507	0.506	0.519	0.520	0.492	0.463	0.429	0.491	6.82
19)	P	n-Nitroso-di-n...	0.898	1.052	1.035	1.003	0.927	0.838	0.787	0.719	0.907	13.29
20)		3+4-Methylphenols		1.535	1.544	1.532	1.444	1.307	1.215	1.065	1.377	13.59
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.570	0.540	0.531	0.490	0.460	0.438	0.395	0.489	12.72
23)	S	Nitrobenzene-d5		0.390	0.392	0.407	0.398	0.383	0.366	0.337	0.382	6.13
24)		Nitrobenzene		0.416	0.411	0.418	0.411	0.392	0.378	0.339	0.395	7.24
25)		Isophorone		0.766	0.746	0.753	0.752	0.734	0.714	0.676	0.735	4.17
26)	C	2-Nitrophenol		0.110	0.122	0.140	0.158	0.164	0.164	0.162	0.146	15.33
27)		2,4-Dimethylph...		0.307	0.308	0.319	0.318	0.313	0.301	0.285	0.307	3.82
28)		bis(2-Chloroet...		0.508	0.482	0.487	0.458	0.436	0.413	0.383	0.452	9.84
29)	C	2,4-Dichloroph...		0.282	0.283	0.298	0.301	0.293	0.283	0.269	0.287	3.87
30)		1,2,4-Trichlor...		0.356	0.344	0.345	0.338	0.324	0.310	0.290	0.330	6.97
31)		Naphthalene		1.150	1.082	1.058	0.996	0.939	0.894	0.808	0.990	11.94
32)		Benzoic acid			0.112	0.150	0.181	0.203	0.220	0.223	0.181	23.89
33)		4-Chloroaniline		0.474	0.454	0.456	0.441	0.416	0.401	0.363	0.429	8.91
34)	C	Hexachlorobuta...		0.213	0.203	0.212	0.212	0.206	0.202	0.192	0.206	3.81
35)		Caprolactam		0.065	0.073	0.083	0.089	0.088	0.087	0.085	0.081	11.11
36)	C	4-Chloro-3-met...		0.286	0.290	0.307	0.308	0.298	0.293	0.275	0.294	3.88
37)		2-Methylnaphth...		0.783	0.736	0.729	0.688	0.647	0.614	0.556	0.679	11.54
38)		1-Methylnaphth...		0.719	0.688	0.675	0.635	0.604	0.570	0.518	0.630	11.26

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Method File : 8270-BF012723.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.711	0.692	0.705	0.679	0.669	0.645	0.596	0.671	5.98
41)	P	Hexachlorocycl...	0.263	0.287	0.331	0.367	0.384	0.379	0.375	0.341	14.33
42)	S	2,4,6-Tribromo...	0.162	0.166	0.184	0.193	0.196	0.197	0.196	0.185	8.07
43)	C	2,4,6-Trichlor...	0.357	0.387	0.424	0.438	0.432	0.426	0.403	0.410	7.11
44)		2,4,5-Trichlor...	0.434	0.456	0.501	0.507	0.505	0.490	0.465	0.480	5.93
45)	S	2-Fluorobiphenyl	1.587	1.516	1.451	1.259	1.202	1.141		1.359	13.46
46)		1,1'-Biphenyl	1.740	1.685	1.692	1.540	1.465	1.403	1.265	1.541	11.37
47)		2-Chloronaphth...	1.324	1.278	1.288	1.198	1.158	1.108	1.021	1.196	9.11
48)		2-Nitroaniline	0.257	0.287	0.335	0.356	0.350	0.343	0.322	0.321	11.37
49)		Acenaphthylene	2.060	1.988	2.007	1.877	1.787	1.735	1.556	1.859	9.61
50)		Dimethylphthalate	1.432	1.406	1.435	1.374	1.341	1.293	1.220	1.357	5.83
51)		2,6-Dinitrotol...	0.251	0.271	0.298	0.310	0.304	0.300	0.283	0.288	7.32
52)	C	Acenaphthene	1.249	1.200	1.218	1.153	1.117	1.075	0.987	1.143	7.98
53)		3-Nitroaniline	0.286	0.303	0.333	0.339	0.334	0.330	0.308	0.319	6.26
54)	P	2,4-Dinitrophenol		0.077	0.102	0.129	0.138	0.145	0.150	0.124	22.98
55)		Dibenzofuran	1.960	1.839	1.841	1.708	1.626	1.572	1.438	1.712	10.56
56)	P	4-Nitrophenol		0.186	0.222	0.245	0.247	0.249	0.234	0.231	10.37
57)		2,4-Dinitrotol...	0.282	0.315	0.363	0.386	0.384	0.385	0.370	0.355	11.45
58)		Fluorene	1.515	1.414	1.409	1.301	1.240	1.200	1.075	1.308	11.47
59)		2,3,4,6-Tetrac...	0.300	0.307	0.348	0.369	0.363	0.358	0.341	0.341	7.99
60)		Diethylphthalate	1.329	1.353	1.416	1.367	1.335	1.282	1.180	1.323	5.68
61)		4-Chlorophenyl...	0.756	0.732	0.737	0.692	0.667	0.644	0.601	0.690	8.12
62)		4-Nitroaniline	0.269	0.285	0.309	0.315	0.317	0.309	0.292	0.299	5.91
63)		Azobenzene	1.604	1.535	1.523	1.404	1.335	1.254	1.120	1.396	12.36
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.067	0.082	0.097	0.104	0.107	0.109	0.094	17.35
66)	c	n-Nitrosodiphe...	0.685	0.672	0.668	0.628	0.610	0.588	0.545	0.628	8.13
67)		4-Bromophenyl-...	0.235	0.233	0.236	0.233	0.231	0.226	0.217	0.230	2.84
68)		Hexachlorobenzene	0.234	0.231	0.235	0.227	0.229	0.225	0.216	0.228	2.82
69)		Atrazine	0.180	0.182	0.193	0.193	0.179	0.174	0.161	0.180	6.13
70)	C	Pentachlorophenol		0.119	0.143	0.159	0.161	0.163	0.158	0.151	11.20
71)		Phenanthrene	1.158	1.103	1.096	1.009	0.968	0.939	0.850	1.017	10.63
72)		Anthracene	1.162	1.130	1.122	1.034	0.988	0.952	0.864	1.036	10.50
73)		Carbazole	0.962	0.942	0.958	0.907	0.863	0.834	0.765	0.890	8.24
74)		Di-n-butylphth...	0.929	1.028	1.138	1.074	1.032	0.993	0.894	1.013	8.22
75)	C	Fluoranthene	1.112	1.119	1.129	1.055	1.002	0.965	0.865	1.035	9.43
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.465	0.544	0.535	0.585	0.520	0.528	0.478	0.522	7.78
78)		Pyrene	1.913	1.840	1.919	1.981	1.938	1.830	1.696	1.874	5.06
79)	S	Terphenyl-d14	1.365	1.332	1.315	1.318	1.273	1.200	1.108	1.273	7.04
80)		Butylbenzylpht...	0.372	0.456	0.567	0.662	0.666	0.640	0.618	0.569	19.93
81)		Benzo(a)anthra...	1.435	1.399	1.432	1.450	1.424	1.384	1.321	1.406	3.13
82)		3,3'-Dichlorob...	0.286	0.337	0.394	0.428	0.422	0.405	0.395	0.381	13.45
83)		Chrysene	1.368	1.309	1.357	1.352	1.319	1.258	1.211	1.310	4.40
84)		Bis(2-ethylhex...	0.546	0.634	0.777	0.870	0.870	0.827	0.786	0.758	16.26
85)	c	Di-n-octyl pht...		0.685	0.938	1.175	1.248	1.235	1.259	1.090	21.27

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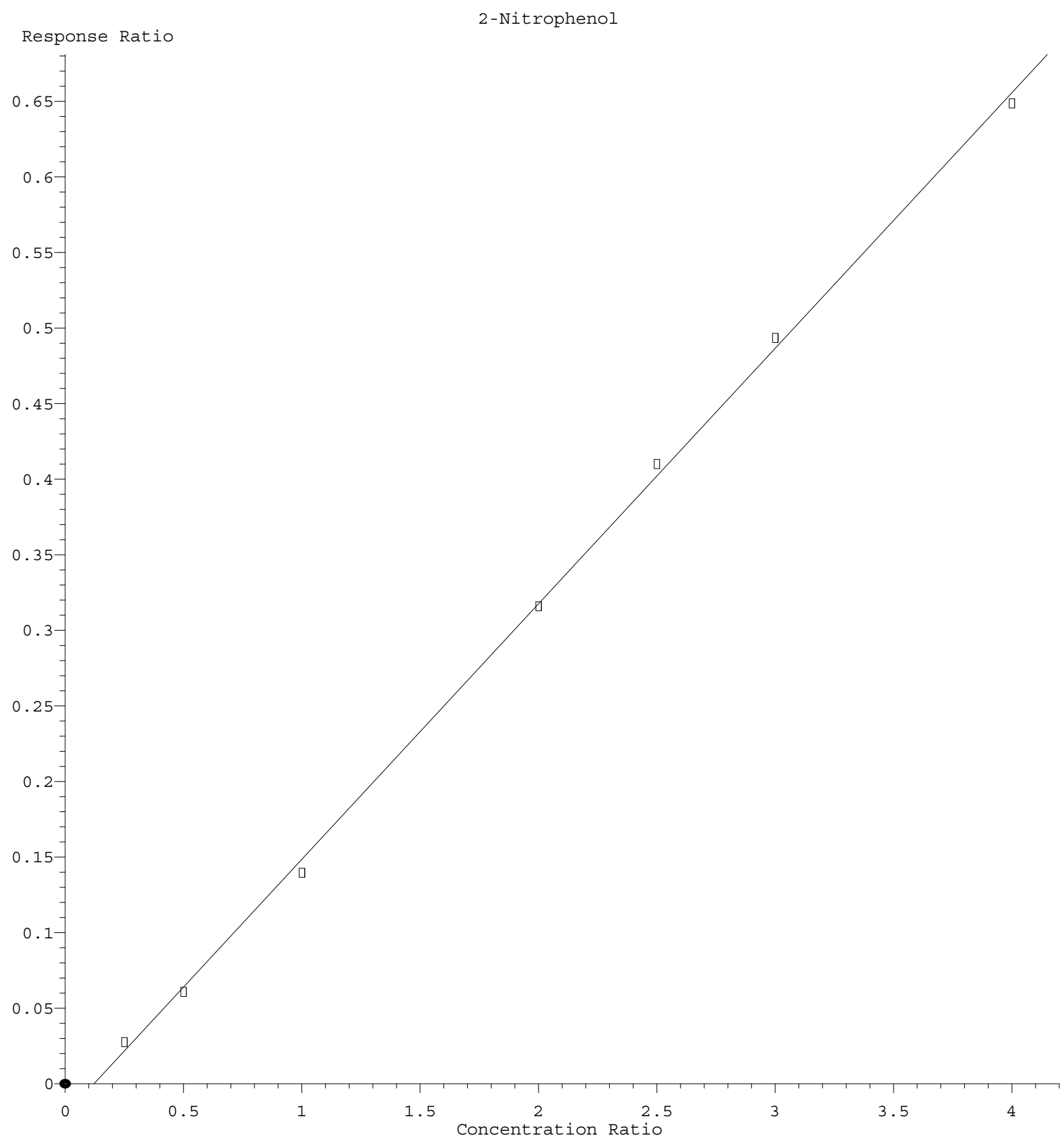
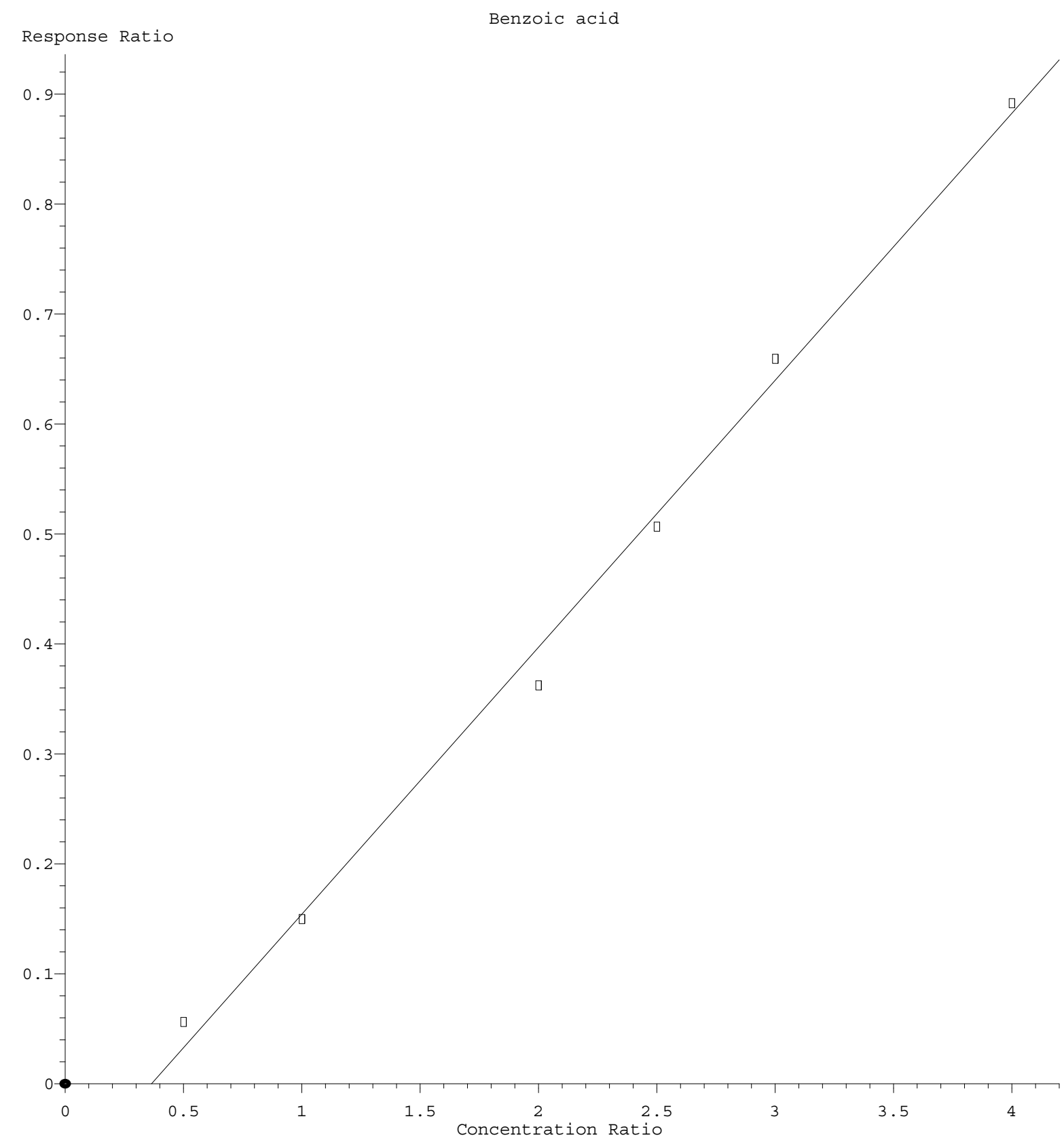
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.066	1.140	1.295	1.436	1.456	1.441	1.424	1.322	12.15
88)		Benzo(b)fluora...	1.161	1.150	1.278	1.315	1.274	1.219	1.201	1.228	5.10
89)		Benzo(k)fluora...	1.391	1.362	1.330	1.260	1.235	1.207	1.087	1.267	8.24
90)	C	Benzo(a)pyrene	1.051	1.093	1.186	1.248	1.205	1.193	1.141	1.159	5.93
91)		Dibenzo(a,h)an...	0.867	0.927	1.072	1.189	1.203	1.166	1.144	1.081	12.36
92)		Benzo(g,h,i)pe...	0.915	0.964	1.073	1.184	1.201	1.198	1.182	1.102	10.92

(#) = Out of Range



Response = 1.691e-001 * Amt - 2.061e-002
Coef of Det (r^2) = 0.999132 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012723.M
Calibration Table Last Updated: Sat Jan 28 02:25:45 2023



Response = 2.429e-001 * Amt - 8.863e-002
Coef of Det (r^2) = 0.995198 Curve Fit: Linear
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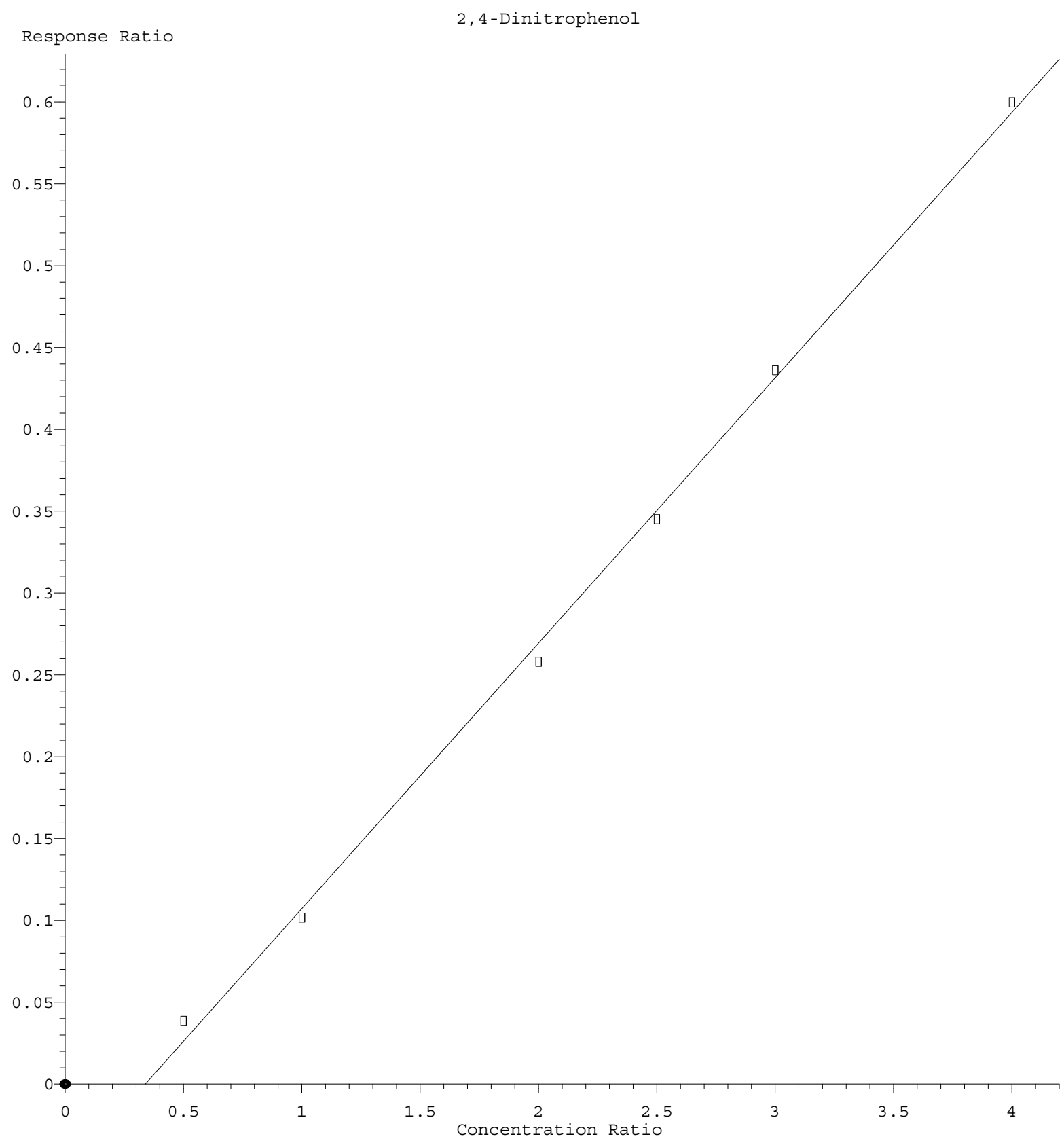
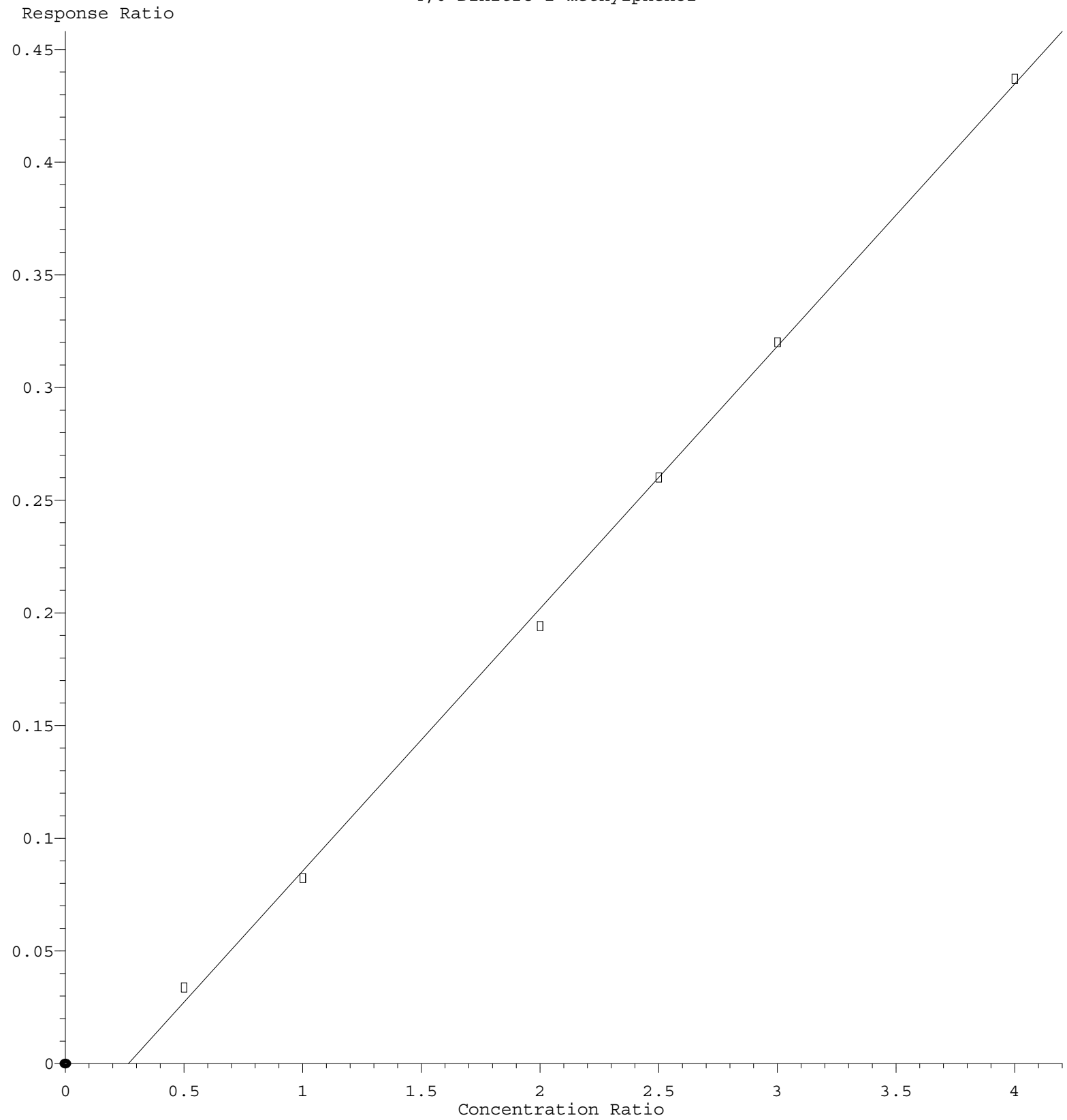
Calibration Table Last Updated: Sat Jan 28 02:25:45 2023

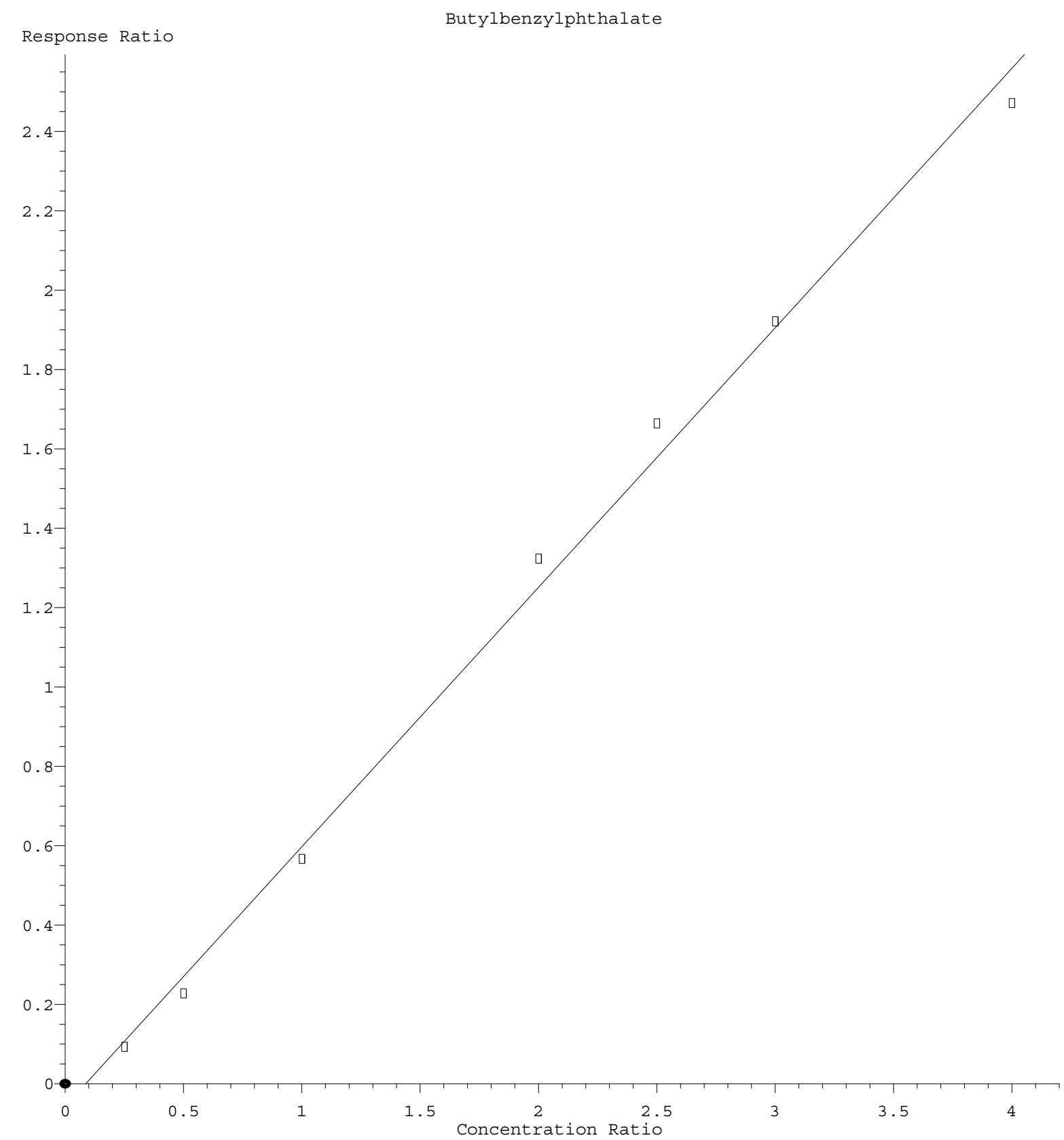


Response = 1.622e-001 * Amt - 5.498e-002
Coef of Det (r^2) = 0.998164 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012723.M
Calibration Table Last Updated: Sat Jan 28 02:25:45 2023

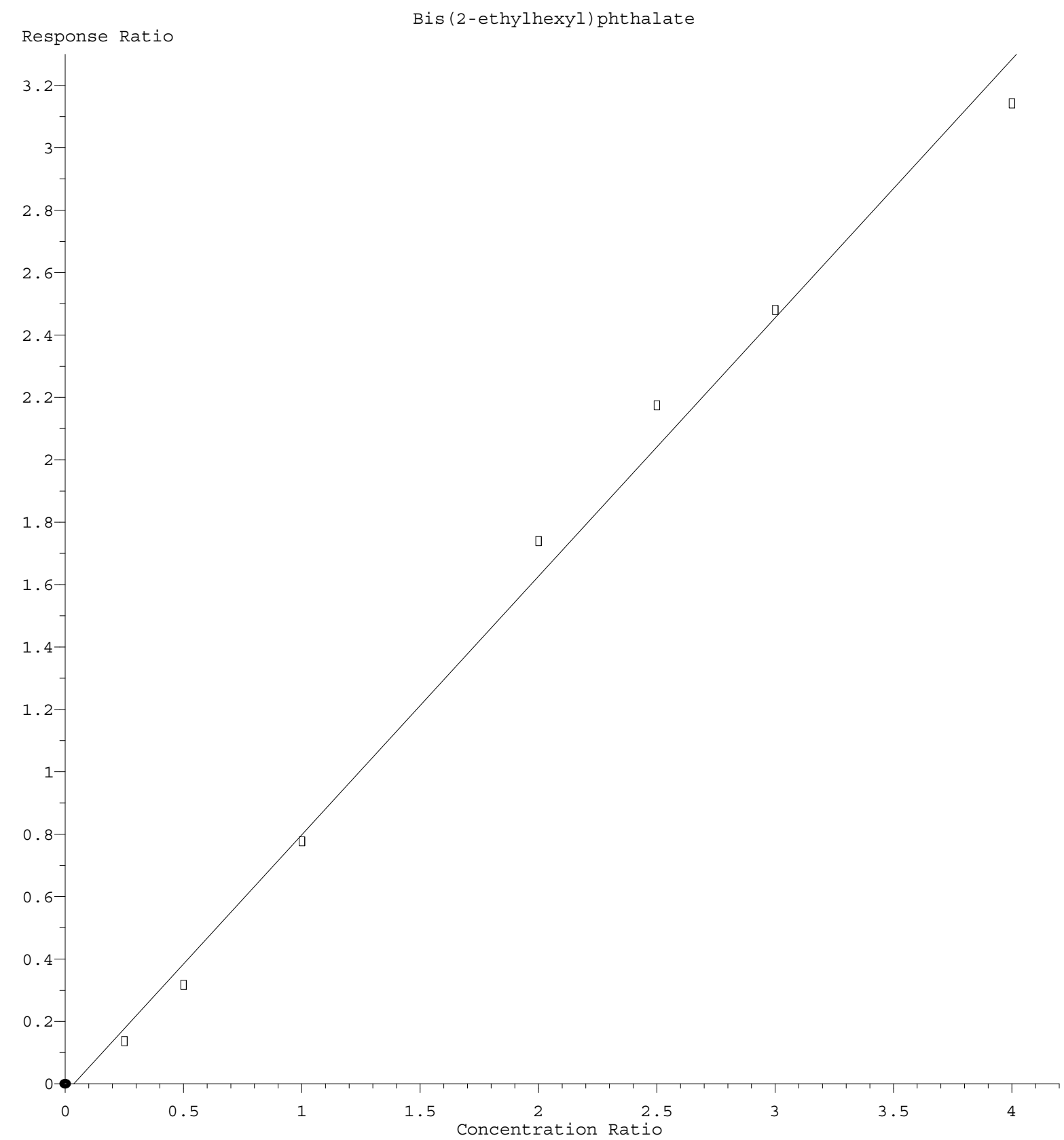
4,6-Dinitro-2-methylphenol



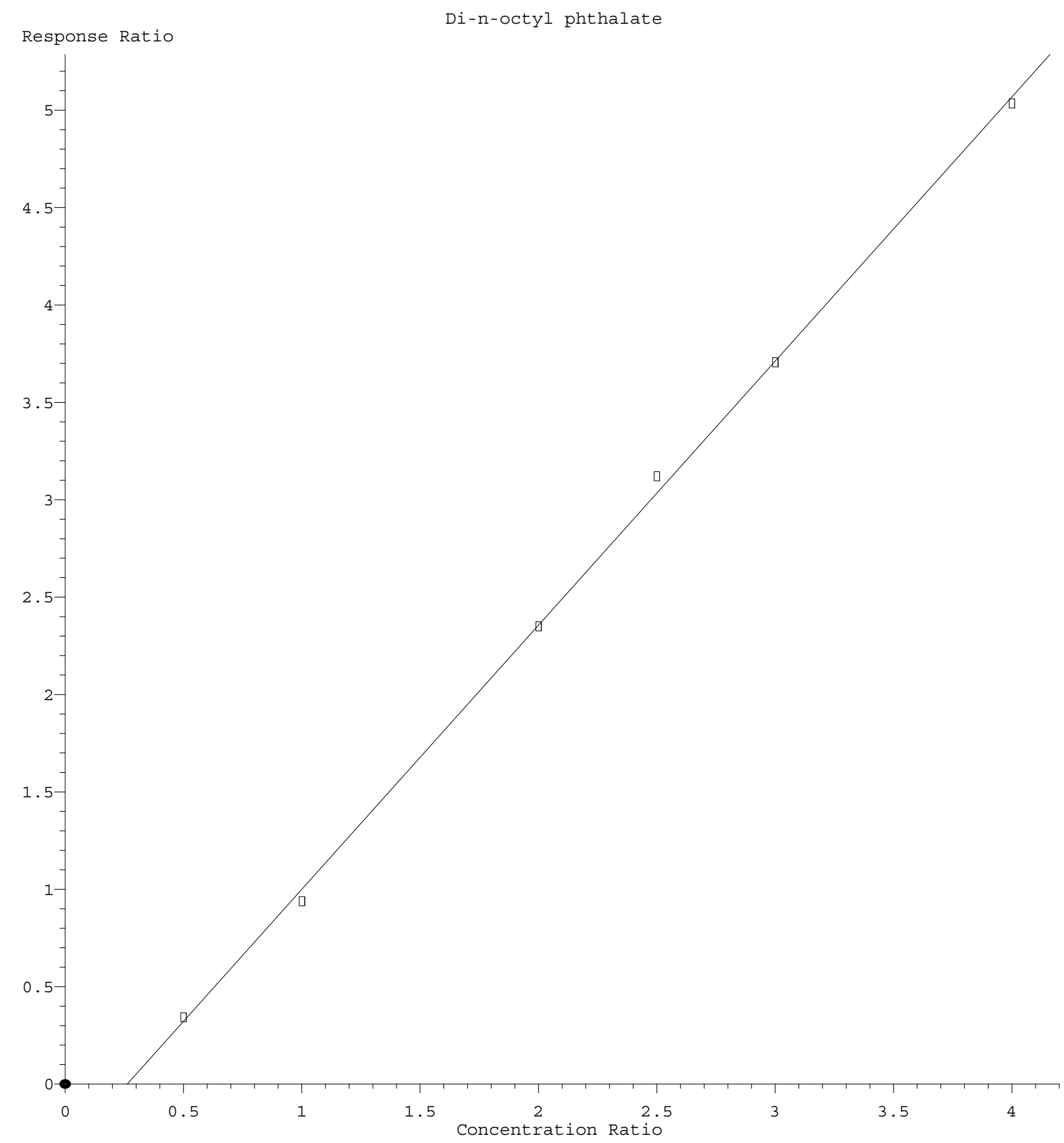
Response = 1.164e-001 * Amt - 3.097e-002
Coef of Det (r^2) = 0.998942 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012723.M
Calibration Table Last Updated: Sat Jan 28 02:25:45 2023



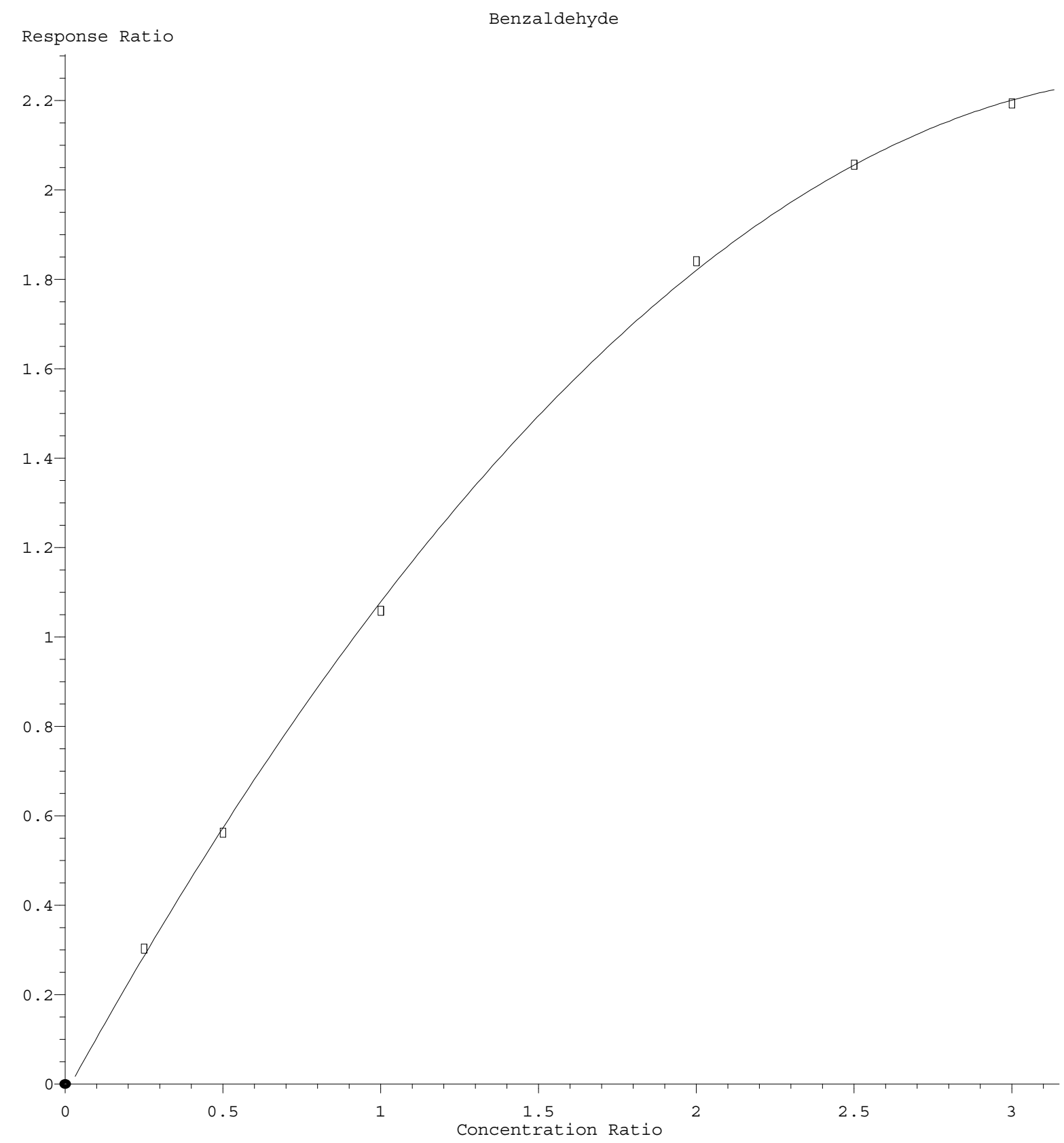
Response = 6.541e-001 * Amt - 5.707e-002
Coef of Det (r^2) = 0.995235 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012723.M
Calibration Table Last Updated: Sat Jan 28 02:25:45 2023



Response = 8.285e-001 * Amt - 3.032e-002
Coef of Det (r^2) = 0.992733 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012723.M
Calibration Table Last Updated: Sat Jan 28 02:25:45 2023



Response = 1.356e+000 * Amt - 3.564e-001
Coef of Det (r^2) = 0.999160 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012723.M
Calibration Table Last Updated: Sat Jan 28 02:25:45 2023



R = -1.802e-001 A*A + 1.282e+000 A - 2.323e-002
Coef of Det (r^2) = 0.999608 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012723.M
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