

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP060625.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Jun 06 16:20:27 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BP024860.D 5 =BP024861.D 10 =BP024862.D 20 =BP024863.D 40 =BP024864.D 50 =BP024865.D 60 =BP024866.D 80 =BP024867.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane		0.564	0.529	0.524	0.495	0.546	0.515	0.517	0.527	4.21
3)	Pyridine		1.151	1.183	1.265	1.226	1.370	1.367	1.315	1.268	6.84
4)	n-Nitrosodimet...			0.478	0.509	0.502	0.542	0.554	0.525	0.518	5.36
5) S	2-Fluorophenol		1.127	1.139	1.207	1.163	1.283	1.253	1.215	1.198	4.85
6)	Aniline		1.917	1.892	2.016	1.978	2.145	2.182	2.031	2.023	5.37
7) S	Phenol-d6		1.507	1.528	1.588	1.545	1.676	1.689	1.564	1.585	4.49
8)	2-Chlorophenol		1.336	1.290	1.346	1.314	1.453	1.422	1.348	1.358	4.29
9)	Benzaldehyde			1.038	1.071	0.873	0.985	0.869	0.646	0.914	16.98
10) C	Phenol		1.560	1.564	1.616	1.587	1.725	1.759	1.629	1.634	4.78
11)	bis(2-Chloroet...		1.222	1.277	1.334	1.234	1.363	1.322	1.246	1.285	4.26
12)	1,3-Dichlorobe...		1.570	1.515	1.537	1.425	1.571	1.519	1.471	1.515	3.49
13) C	1,4-Dichlorobe...		1.596	1.507	1.535	1.439	1.604	1.534	1.488	1.529	3.82
14)	1,2-Dichlorobe...		1.529	1.637	1.488	1.401	1.540	1.492	1.422	1.501	5.25
15)	Benzyl Alcohol			1.137	1.185	1.170	1.289	1.309	1.211	1.217	5.63
16)	2,2'-oxybis(1-...		1.748	1.732	1.722	1.583	1.751	1.667	1.574	1.682	4.54
17)	2-Methylphenol		1.053	1.149	1.138	1.106	1.210	1.211	1.121	1.141	4.94
18)	Hexachloroethane		0.591	0.565	0.581	0.545	0.611	0.574	0.562	0.576	3.73
19) P	n-Nitroso-di-n...	0.984	1.101	1.105	1.107	1.043	1.141	1.113	1.029	1.078	4.93
20)	3+4-Methylphenols			1.507	1.548	1.493	1.631	1.648	1.515	1.557	4.29
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone		0.506	0.521	0.511	0.491	0.535	0.510	0.463	0.505	4.58
23) S	Nitrobenzene-d5		0.407	0.397	0.423	0.404	0.444	0.423	0.383	0.412	4.89
24)	Nitrobenzene		0.366	0.351	0.375	0.360	0.392	0.376	0.339	0.366	4.81
25)	Isophorone		0.704	0.678	0.724	0.694	0.764	0.726	0.704	0.713	3.91
26) C	2-Nitrophenol		0.154	0.157	0.178	0.180	0.201	0.195	0.198	0.180	10.62
27)	2,4-Dimethylph...		0.294	0.286	0.310	0.303	0.331	0.320	0.318	0.309	5.12
28)	bis(2-Chloroet...		0.414	0.408	0.438	0.414	0.465	0.423	0.416	0.426	4.70
29) C	2,4-Dichloroph...		0.246	0.272	0.300	0.292	0.327	0.313	0.323	0.296	9.81
30)	1,2,4-Trichlor...		0.335	0.319	0.335	0.317	0.352	0.330	0.351	0.334	4.16
31)	Naphthalene		1.071	1.022	1.044	0.989	1.079	1.035	0.935	1.025	4.86
32)	Benzoic acid			0.159	0.181	0.204	0.230	0.235	0.243	0.209	16.01
33)	4-Chloroaniline		0.397	0.401	0.435	0.426	0.471	0.463	0.414	0.429	6.72
34) C	Hexachlorobuta...		0.203	0.199	0.208	0.194	0.218	0.198	0.189	0.201	4.76
35)	Caprolactam			0.098	0.109	0.110	0.118	0.116	0.104	0.109	6.91
36) C	4-Chloro-3-met...		0.312	0.322	0.351	0.341	0.374	0.363	0.329	0.342	6.58
37)	2-Methylnaphth...		0.659	0.638	0.659	0.633	0.696	0.664	0.602	0.650	4.54
38)	1-Methylnaphth...		0.720	0.680	0.718	0.671	0.741	0.693	0.643	0.695	4.86

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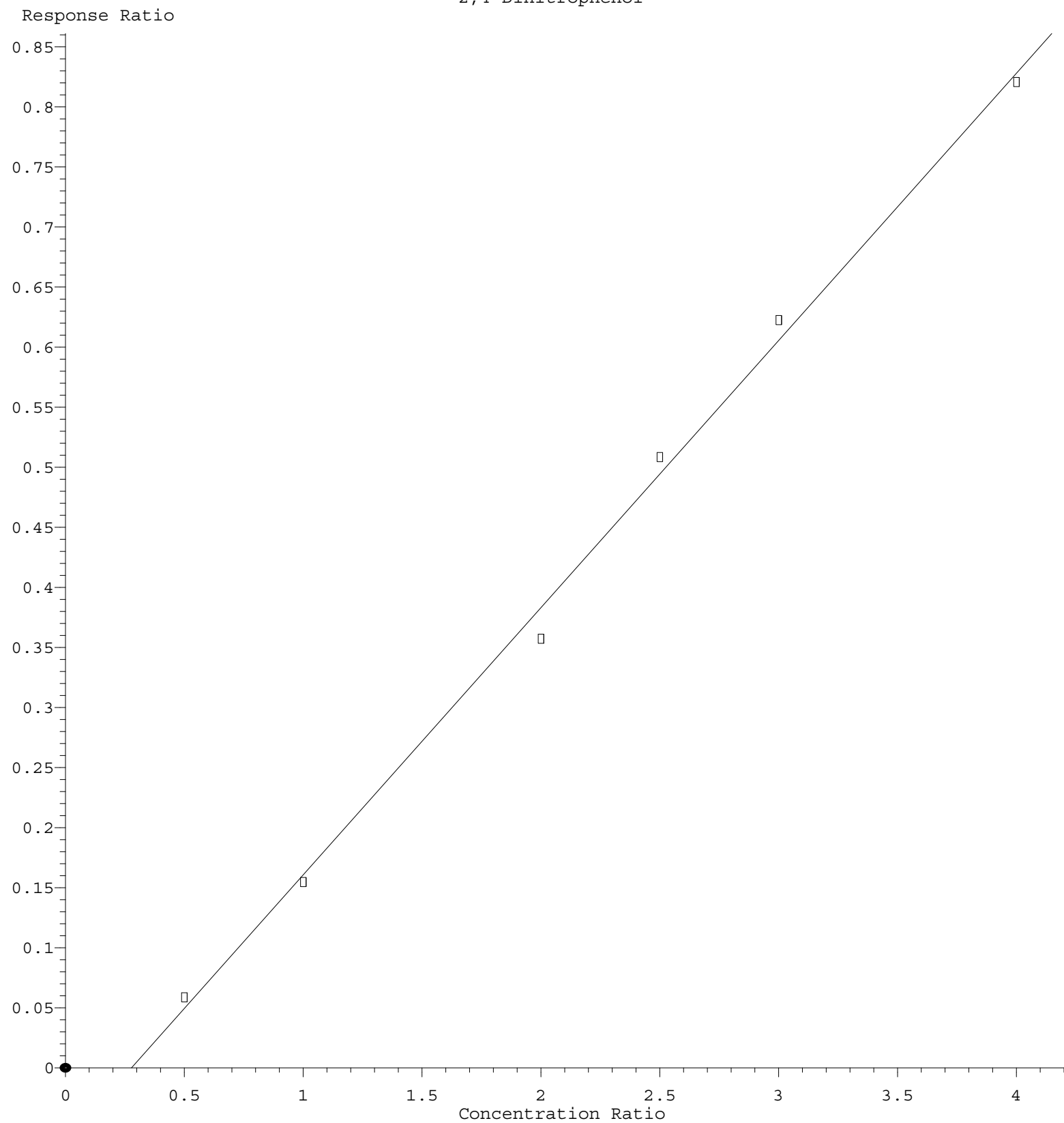
39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.568	0.561	0.568	0.538	0.601	0.574	0.562	0.568	3.31
41) P	Hexachlorocycl...		0.259	0.315	0.337	0.404	0.369	0.394	0.346	15.74
42) S	2,4,6-Tribromo...	0.256	0.264	0.279	0.267	0.298	0.286	0.285	0.277	5.26
43) C	2,4,6-Trichlor...	0.342	0.352	0.386	0.375	0.411	0.404	0.396	0.381	6.86
44)	2,4,5-Trichlor...	0.349	0.379	0.414	0.405	0.448	0.436	0.426	0.408	8.44
45) S	2-Fluorobiphenyl	1.542	1.507	1.517	1.390	1.563	1.464	1.409	1.485	4.44
46)	1,1'-Biphenyl	1.477	1.456	1.485	1.386	1.509	1.458	1.403	1.453	3.05
47)	2-Chloronaphth...	1.123	1.104	1.135	1.069	1.171	1.136	1.081	1.117	3.16
48)	2-Nitroaniline	0.289	0.324	0.344	0.346	0.371	0.374	0.355	0.343	8.59
49)	Acenaphthylene	1.880	1.851	1.892	1.768	1.939	1.904	1.805	1.863	3.19
50)	Dimethylphthalate	1.515	1.450	1.501	1.400	1.550	1.473	1.438	1.475	3.45
51)	2,6-Dinitrotol...	0.299	0.301	0.326	0.312	0.339	0.333	0.317	0.318	4.86
52) C	Acenaphthene	1.106	1.064	1.090	1.020	1.087	1.069	1.036	1.067	2.86
53)	3-Nitroaniline	0.263	0.292	0.337	0.338	0.367	0.364	0.349	0.330	11.74
54) P	2,4-Dinitrophenol		0.117	0.155	0.179	0.203	0.208	0.205	0.178	20.23
55)	Dibenzofuran	1.815	1.721	1.756	1.627	1.757	1.702	1.615	1.713	4.22
56) P	4-Nitrophenol		0.142	0.213	0.248	0.276	0.281	0.275	0.239	22.62
57)	2,4-Dinitrotol...	0.390	0.416	0.457	0.437	0.487	0.470	0.458	0.445	7.45
58)	Fluorene	1.437	1.394	1.420	1.304	1.434	1.370	1.329	1.384	3.77
59)	2,3,4,6-Tetrac...	0.343	0.350	0.360	0.354	0.395	0.381	0.370	0.365	5.04
60)	Diethylphthalate	1.501	1.474	1.487	1.393	1.545	1.444	1.449	1.470	3.27
61)	4-Chlorophenyl...	0.711	0.668	0.689	0.637	0.709	0.665	0.658	0.677	4.06
62)	4-Nitroaniline	0.239	0.235	0.307	0.311	0.336	0.333	0.334	0.299	14.69
63)	Azobenzene	1.346	1.334	1.394	1.300	1.425	1.335	1.307	1.349	3.37
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...		0.102	0.125	0.130	0.147	0.143	0.142	0.131	12.78
66) c	n-Nitrosodiphe...	0.627	0.608	0.633	0.597	0.659	0.622	0.594	0.620	3.68
67)	4-Bromophenyl-...	0.224	0.215	0.226	0.213	0.246	0.229	0.226	0.226	4.83
68)	Hexachlorobenzene	0.278	0.268	0.272	0.260	0.290	0.275	0.272	0.274	3.31
69)	Atrazine	0.213	0.212	0.231	0.217	0.244	0.228	0.228	0.225	5.16
70) C	Pentachlorophenol		0.105	0.131	0.139	0.162	0.153	0.159	0.142	15.21
71)	Phenanthrene	1.158	1.108	1.110	1.056	1.161	1.102	1.041	1.105	4.12
72)	Anthracene	1.129	1.093	1.137	1.072	1.188	1.133	1.083	1.119	3.58
73)	Carbazole	1.023	1.013	1.057	0.998	1.112	1.052	1.007	1.038	3.83
74)	Di-n-butylphth...	1.178	1.245	1.326	1.272	1.421	1.273	1.284	1.285	5.81
75) C	Fluoranthene	1.300	1.287	1.307	1.223	1.344	1.268	1.238	1.281	3.25
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine		0.512	0.669	0.653	0.690	0.663	0.529	0.619	12.54
78)	Pyrene	1.307	1.195	1.261	1.184	1.322	1.272	1.206	1.249	4.41
79) S	Terphenyl-d14	1.178	1.073	1.146	1.089	1.164	1.120	1.039	1.116	4.57
80)	Butylbenzylpht...	0.508	0.529	0.581	0.561	0.641	0.596	0.589	0.572	7.74
81)	Benzo(a)anthra...	1.312	1.234	1.288	1.219	1.347	1.310	1.243	1.279	3.73
82)	3,3'-Dichlorob...		0.468	0.513	0.493	0.542	0.531	0.501	0.508	5.29
83)	Chrysene	1.252	1.174	1.229	1.144	1.279	1.238	1.168	1.212	4.13
84)	Bis(2-ethylhex...	0.715	0.780	0.846	0.797	0.921	0.831	0.850	0.820	7.87
85) c	Di-n-octyl pht...		1.320	1.438	1.384	1.587	1.470	1.473	1.445	6.25

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		-----ISTD-----								
86) I	Perylene-d12									
87)	Indeno(1,2,3-c...	1.427	1.402	1.469	1.412	1.559	1.510	1.436	1.459	3.92
88)	Benzo(b)fluora...	1.103	1.104	1.133	1.127	1.232	1.180	1.133	1.145	4.06
89)	Benzo(k)fluora...	1.165	1.144	1.180	1.106	1.259	1.158	1.144	1.165	4.05
90) C	Benzo(a)pyrene	1.096	1.069	1.127	1.070	1.214	1.136	1.113	1.118	4.46
91)	Dibenzo(a,h)an...	1.151	1.143	1.202	1.143	1.279	1.224	1.172	1.188	4.25
92)	Benzo(g,h,i)pe...	1.172	1.127	1.183	1.136	1.261	1.214	1.157	1.179	3.95

(#) = Out of Range

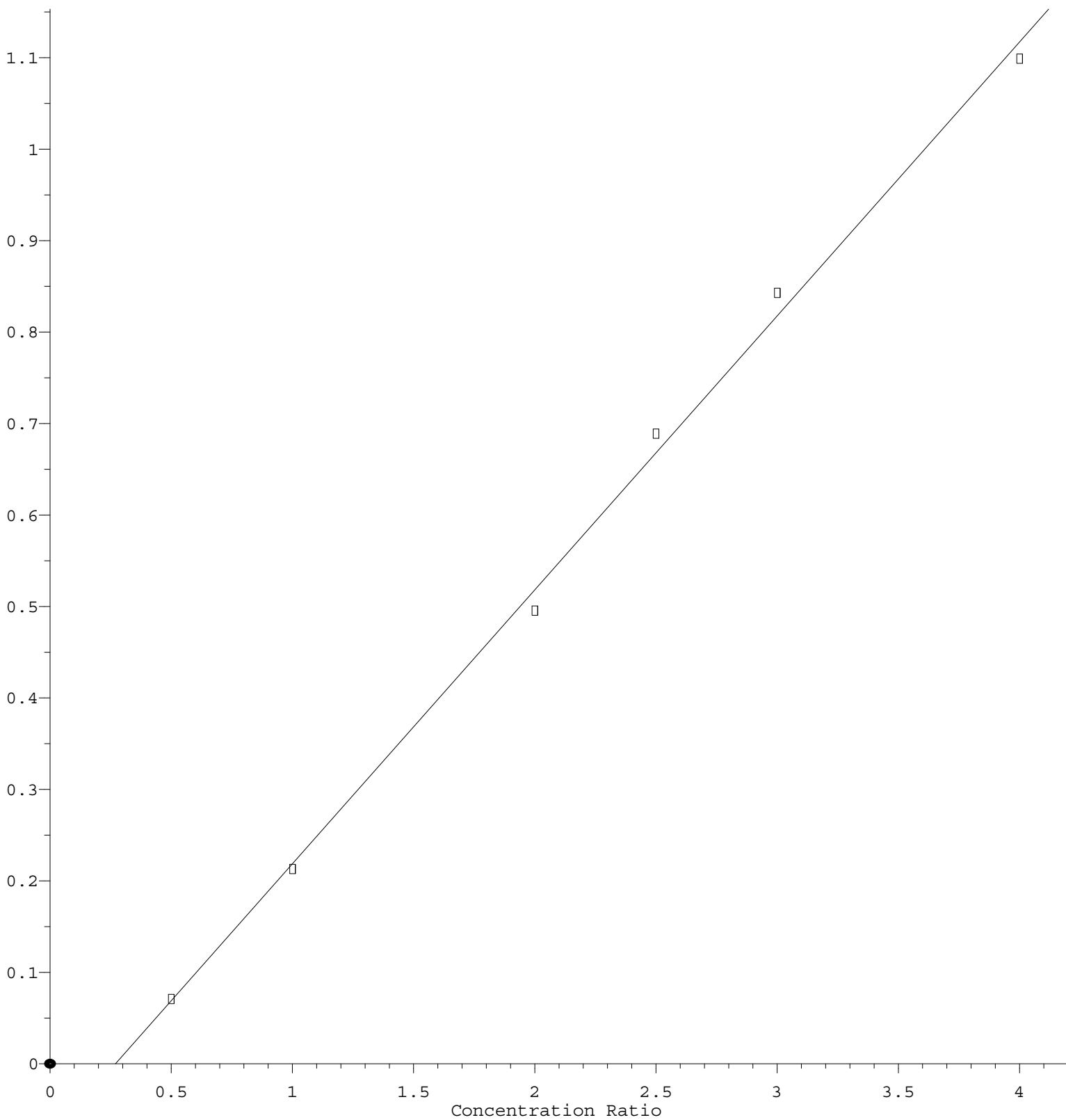
2,4-Dinitrophenol



Response = 2.226e-001 * Amt - 6.192e-002
 Coef of Det (r^2) = 0.996780 Curve Fit: Linear
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4-Nitrophenol

Response Ratio



$$\text{Response} = 2.997\text{e-}001 * \text{Amt} - 8.106\text{e-}002$$

Coef of Det (r^2) = 0.997389 Curve Fit: Linear

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