

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF013024.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Jan 31 04:56:22 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BF137191.D 5 =BF137192.D 10 =BF137193.D 20 =BF137194.D 40 =BF137195.D 50 =BF137196.D 60 =BF137197.D 80 =BF137198.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.628	0.662	0.700	0.667	0.639	0.637	0.606	0.649	4.75	
3)	Pyridine	0.517	0.887	1.159	1.303	1.367	1.349	1.320	1.129	28.14	
4)	n-Nitrosodimet...		0.332	0.555	0.612	0.663	0.675	0.708	0.591	23.31	
5) S	2-Fluorophenol	0.813	1.140	1.307	1.329	1.325	1.312	1.259	1.212	15.52	
6)	Aniline	1.196	1.620	2.018	2.036	2.078	2.034	1.979	1.852	17.72	
7) S	Phenol-d6	1.453	1.699	1.875	1.800	1.828	1.774	1.679	1.730	8.09	
8)	2-Chlorophenol	1.128	1.302	1.448	1.416	1.461	1.394	1.338	1.355	8.51	
9)	Benzaldehyde	0.552	0.649	0.824	0.755	0.636	0.536		0.659	17.14	
10) C	Phenol	1.570	1.875	2.082	2.037	2.061	1.998	1.892	1.931	9.23	
11)	bis(2-Chloroet...	1.091	1.319	1.292	1.332	1.322	1.334	1.342	1.290	6.93	
12)	1,3-Dichlorobe...	1.475	1.599	1.707	1.635	1.620	1.596	1.492	1.589	5.12	
13) C	1,4-Dichlorobe...	1.484	1.751	1.716	1.676	1.686	1.644	1.546	1.643	5.80	
14)	1,2-Dichlorobe...	1.454	1.550	1.654	1.566	1.574	1.523	1.434	1.536	4.88	
15)	Benzyl Alcohol	0.752	1.059	1.288	1.378	1.401	1.383	1.341	1.229	19.61	
16)	2,2'-oxybis(1-...	2.333	2.467	2.526	2.373	2.312	2.228	2.031	2.324	7.00	
17)	2-Methylphenol	0.951	1.070	1.123	1.173	1.239	1.217	1.152	1.132	8.64	
18)	Hexachloroethane	0.555	0.587	0.644	0.604	0.610	0.592	0.556	0.593	5.25	
19) P	n-Nitroso-di-n...	1.132	1.097	1.243	1.296	1.211	1.220	1.171	1.118	1.186	5.77
20)	3+4-Methylphenols	1.127	1.392	1.575	1.521	1.544	1.489	1.385	1.433	10.69	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.468	0.527	0.592	0.561	0.557	0.541	0.524	0.538	7.21	
23) S	Nitrobenzene-d5	0.362	0.446	0.475	0.474	0.462	0.465	0.443	0.447	8.80	
24)	Nitrobenzene	0.346	0.430	0.450	0.465	0.453	0.458	0.433	0.434	9.41	
25)	Isophorone	0.804	0.845	0.867	0.844	0.821	0.808	0.783	0.825	3.53	
26) C	2-Nitrophenol	0.082	0.131	0.153	0.170	0.165	0.175	0.169	0.149	22.26	
27)	2,4-Dimethylph...	0.209	0.222	0.245	0.251	0.246	0.245	0.232	0.236	6.51	
28)	bis(2-Chloroet...	0.380	0.428	0.476	0.465	0.448	0.443	0.424	0.438	7.19	
29) C	2,4-Dichloroph...	0.242	0.263	0.316	0.316	0.310	0.307	0.293	0.292	9.96	
30)	1,2,4-Trichlor...	0.358	0.365	0.382	0.376	0.359	0.359	0.343	0.363	3.53	
31)	Naphthalene	1.056	1.102	1.136	1.114	1.083	1.064	1.014	1.081	3.77	
32)	Benzoic acid		0.059	0.102	0.151	0.165	0.186	0.181	0.140	35.57	
33)	4-Chloroaniline	0.257	0.356	0.392	0.402	0.405	0.403	0.390	0.372	14.36	
34) C	Hexachlorobuta...	0.238	0.250	0.258	0.247	0.236	0.236	0.224	0.241	4.70	
35)	Caprolactam	0.073	0.082	0.096	0.101	0.099	0.094	0.092	0.091	11.07	
36) C	4-Chloro-3-met...	0.294	0.324	0.369	0.362	0.367	0.359	0.342	0.345	8.04	
37)	2-Methylnaphth...	0.698	0.738	0.769	0.752	0.725	0.715	0.677	0.725	4.37	
38)	1-Methylnaphth...	0.670	0.694	0.702	0.704	0.668	0.659	0.617	0.673	4.51	

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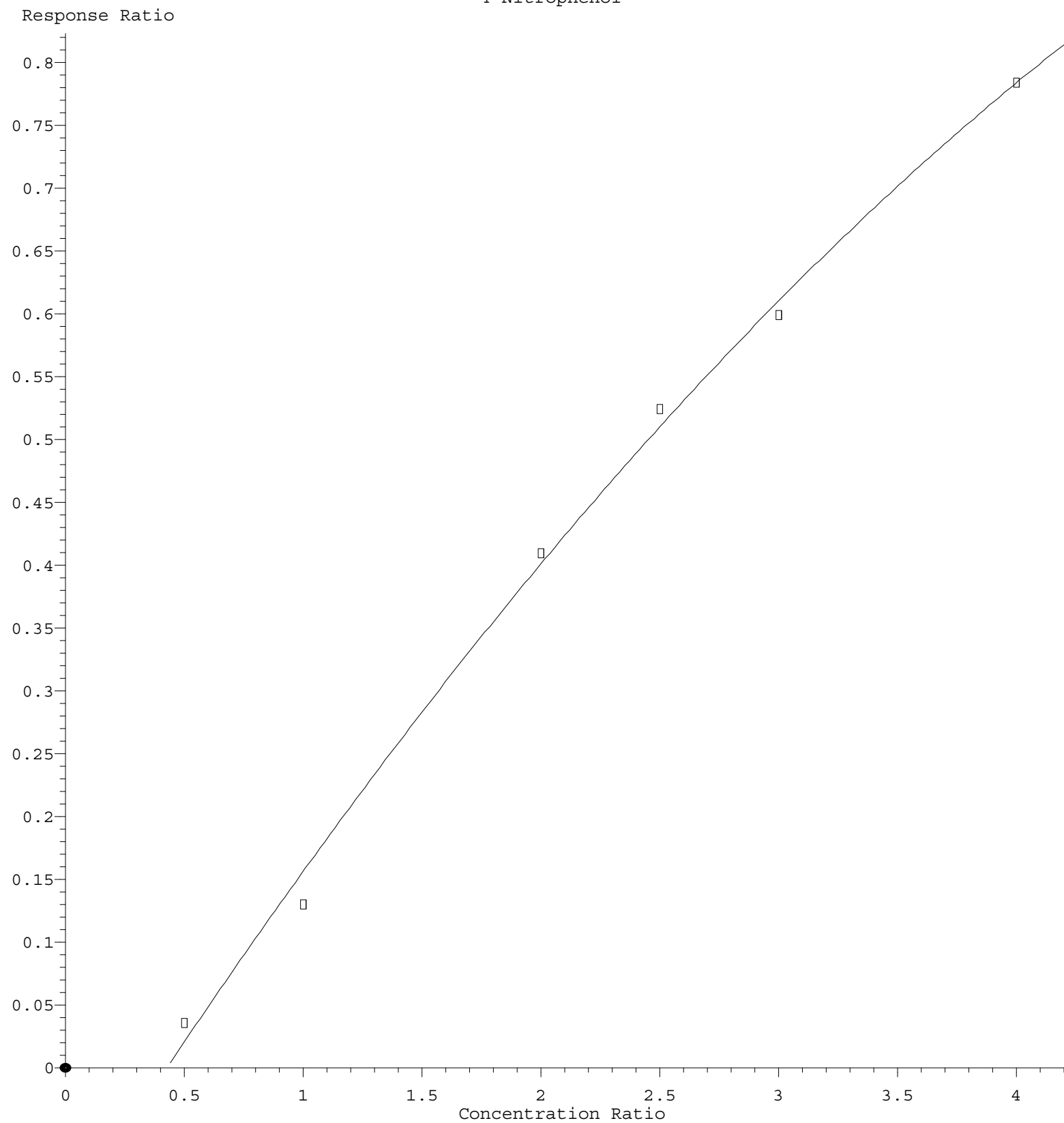
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.642	0.681	0.701	0.702	0.660	0.674	0.626	0.669	4.29	
41) P	Hexachlorocycl...	0.222	0.270	0.324	0.354	0.350	0.359	0.353	0.319	16.56	
42) S	2,4,6-Tribromo...	0.197	0.218	0.239	0.243	0.232	0.230	0.223	0.226	6.76	
43) C	2,4,6-Trichlor...	0.310	0.346	0.388	0.417	0.404	0.405	0.387	0.380	10.10	
44)	2,4,5-Trichlor...	0.325	0.392	0.450	0.451	0.427	0.446	0.414	0.415	10.92	
45) S	2-Fluorobiphenyl	1.482	1.567	1.563	1.487	1.395	1.392	1.298	1.455	6.76	
46)	1,1'-Biphenyl	1.560	1.643	1.691	1.638	1.558	1.571	1.478	1.591	4.45	
47)	2-Chloronaphth...	1.156	1.198	1.238	1.216	1.154	1.177	1.105	1.178	3.77	
48)	2-Nitroaniline	0.243	0.334	0.391	0.434	0.421	0.432	0.414	0.381	18.36	
49)	Acenaphthylene	1.819	1.926	2.002	1.956	1.849	1.877	1.767	1.885	4.33	
50)	Dimethylphthalate	1.305	1.362	1.441	1.409	1.325	1.330	1.286	1.351	4.16	
51)	2,6-Dinitrotol...	0.222	0.265	0.308	0.312	0.307	0.307	0.295	0.288	11.54	
52) C	Acenaphthene	1.087	1.171	1.153	1.149	1.084	1.070	1.043	1.108	4.41	
53)	3-Nitroaniline	0.178	0.206	0.275	0.280	0.296	0.293	0.287	0.259	18.24	
54) P	2,4-Dinitrophenol	0.018	0.052	0.103	0.112	0.117	0.133	0.089		49.60	
55)	Dibenzofuran	1.718	1.835	1.879	1.845	1.716	1.730	1.617	1.763	5.30	
56) P	4-Nitrophenol	0.071	0.130	0.205	0.210	0.200	0.196	0.169		33.18	
57)	2,4-Dinitrotol...	0.260	0.338	0.398	0.427	0.402	0.407	0.385	0.374	15.32	
58)	Fluorene	1.394	1.477	1.469	1.417	1.334	1.329	1.255	1.382	5.84	
59)	2,3,4,6-Tetrac...	0.362	0.387	0.384	0.405	0.394	0.391	0.380	0.386	3.47	
60)	Diethylphthalate	1.252	1.357	1.412	1.407	1.316	1.313	1.255	1.330	4.90	
61)	4-Chlorophenyl...	0.693	0.733	0.737	0.714	0.664	0.658	0.609	0.687	6.74	
62)	4-Nitroaniline	0.154	0.216	0.254	0.287	0.284	0.277	0.265	0.248	19.40	
63)	Azobenzene	1.418	1.475	1.547	1.531	1.482	1.467	1.395	1.473	3.73	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.055	0.079	0.105	0.108	0.111	0.109	0.095		23.91	
66) c	n-Nitrosodiphe...	0.561	0.623	0.648	0.623	0.606	0.616	0.580	0.608	4.79	
67)	4-Bromophenyl-...	0.198	0.215	0.232	0.229	0.224	0.225	0.216	0.220	5.17	
68)	Hexachlorobenzene	0.244	0.253	0.258	0.250	0.242	0.242	0.231	0.246	3.56	
69)	Atrazine	0.175	0.201	0.212	0.215	0.209	0.205	0.189	0.201	6.95	
70) C	Pentachlorophenol	0.111	0.137	0.149	0.149	0.156	0.144	0.141		11.25	
71)	Phenanthrene	1.027	1.107	1.107	1.075	1.035	1.020	0.958	1.047	5.09	
72)	Anthracene	1.022	1.167	1.155	1.114	1.084	1.083	1.015	1.091	5.44	
73)	Carbazole	0.835	0.957	0.972	0.956	0.927	0.900	0.838	0.912	6.21	
74)	Di-n-butylphth...	0.884	1.019	1.042	1.038	1.014	0.994	0.910	0.986	6.39	
75) C	Fluoranthene	1.101	1.185	1.202	1.150	1.096	1.024	0.911	1.096	9.24	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.277	0.381	0.427	0.407	0.356	0.301	0.358		16.48	
78)	Pyrene	1.636	1.710	2.029	2.048	2.074	2.076	1.880	1.922	9.56	
79) S	Terphenyl-d14	1.313	1.384	1.592	1.557	1.543	1.539	1.370	1.471	7.58	
80)	Butylbenzylphth...	0.371	0.430	0.511	0.553	0.554	0.525	0.499	0.492	13.79	
81)	Benzo(a)anthra...	1.339	1.417	1.504	1.459	1.421	1.397	1.377	1.416	3.81	
82)	3,3'-Dichlorob...	0.347	0.386	0.406	0.398	0.383	0.387	0.394	0.386	4.92	
83)	Chrysene	1.355	1.388	1.455	1.439	1.402	1.384	1.325	1.393	3.25	
84)	Bis(2-ethylhex...	0.443	0.493	0.580	0.633	0.625	0.617	0.614	0.572	13.04	
85) c	Di-n-octyl pht...	0.648	0.786	0.938	0.950	1.025	1.111	0.910		18.39	

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86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	0.987	1.235	1.556	1.530	1.499	1.574	1.455	1.405	15.43	
88)	Benzo(b)fluora...	1.259	1.357	1.320	1.203	1.174	1.171	1.125	1.230	6.92	
89)	Benzo(k)fluora...	1.269	1.439	1.373	1.331	1.272	1.276	1.149	1.301	7.08	
90) C	Benzo(a)pyrene	1.093	1.195	1.211	1.180	1.151	1.172	1.100	1.157	3.96	
91)	Dibenzo(a,h)an...	0.799	0.991	1.247	1.211	1.210	1.267	1.156	1.126	15.15	
92)	Benzo(g,h,i)pe...	0.798	0.976	1.233	1.192	1.175	1.223	1.138	1.105	14.53	

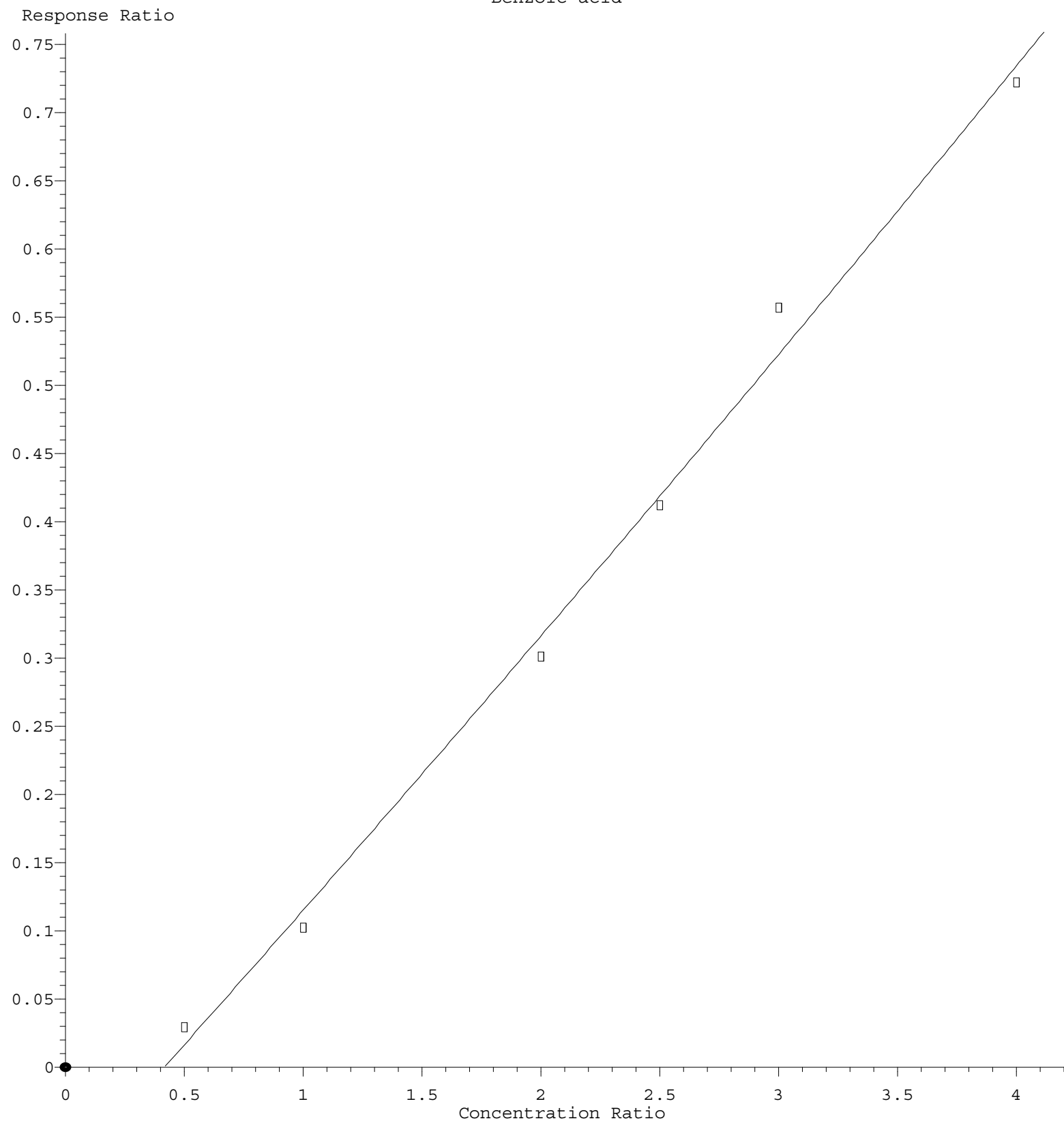
(#) = Out of Range

4-Nitrophenol



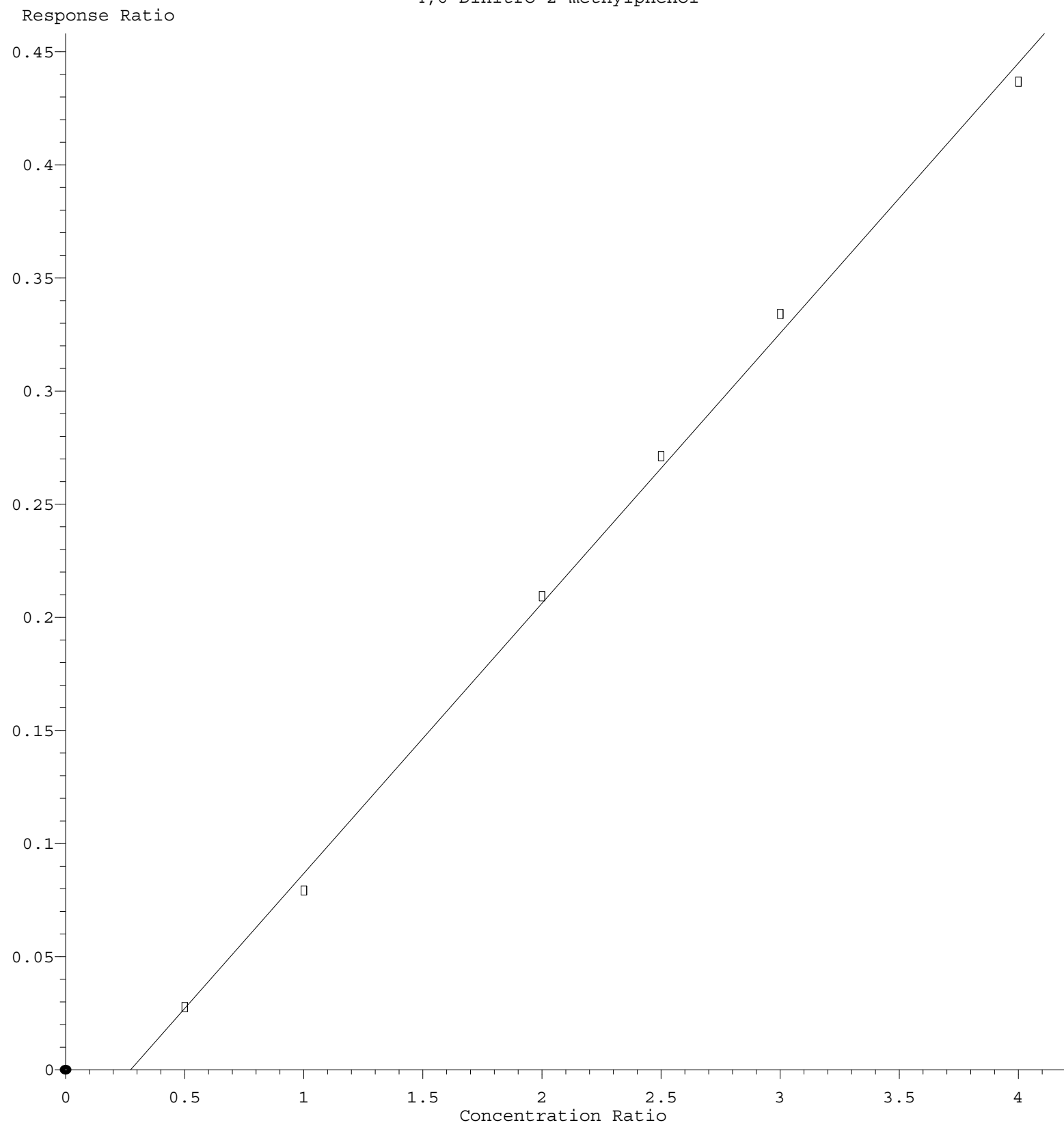
$R = -1.777e-002 A^2 + 2.980e-001 A - 1.238e-001$
 Coef of Det (r^2) = 0.996770 Curve Fit: Quadratic
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Benzoic acid



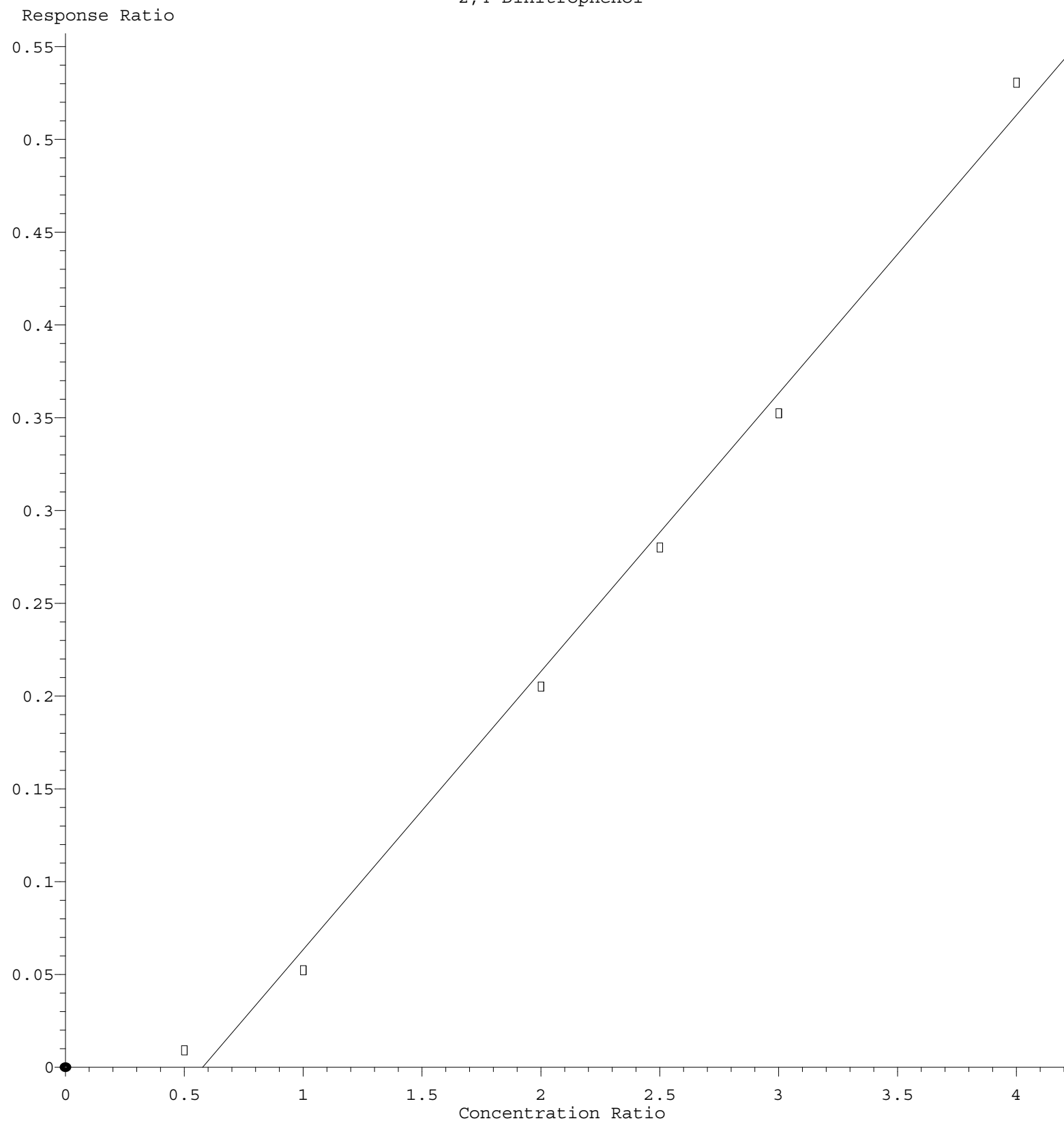
$R = 2.587e-003 A^2 + 1.934e-001 A - 8.089e-002$
 Coef of Det (r^2) = 0.994514 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF013024.M
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4,6-Dinitro-2-methylphenol



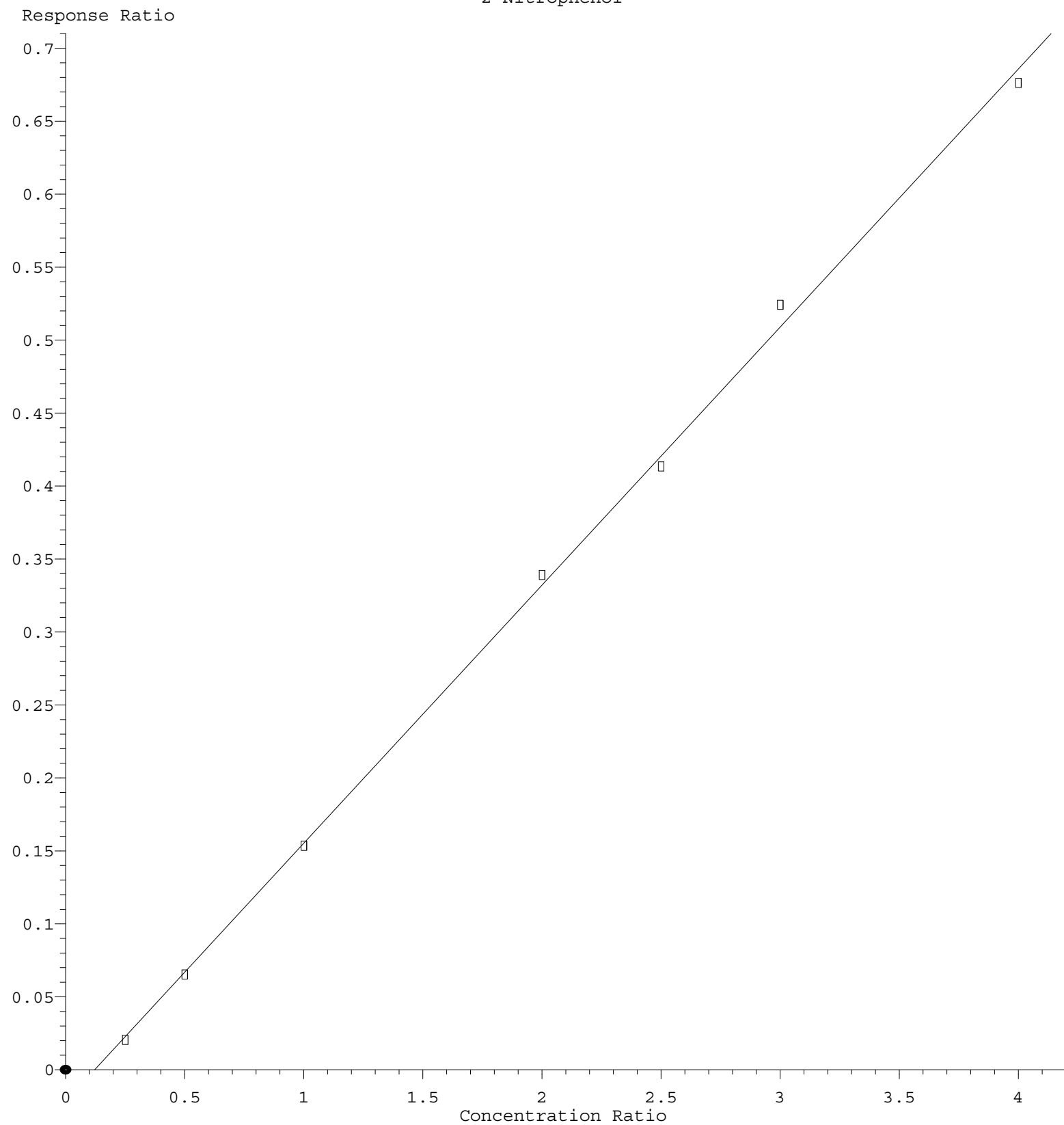
Response = 1.195e-001 * Amt - 3.260e-002
Coef of Det (r^2) = 0.998024 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF013024.M
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2,4-Dinitrophenol



Response = 1.499e-001 * Amt - 8.656e-002
 Coef of Det (r^2) = 0.994134 Curve Fit: Linear
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2-Nitrophenol



$$\text{Response} = 1.769\text{e-}001 * \text{Amt} - 2.167\text{e-}002$$

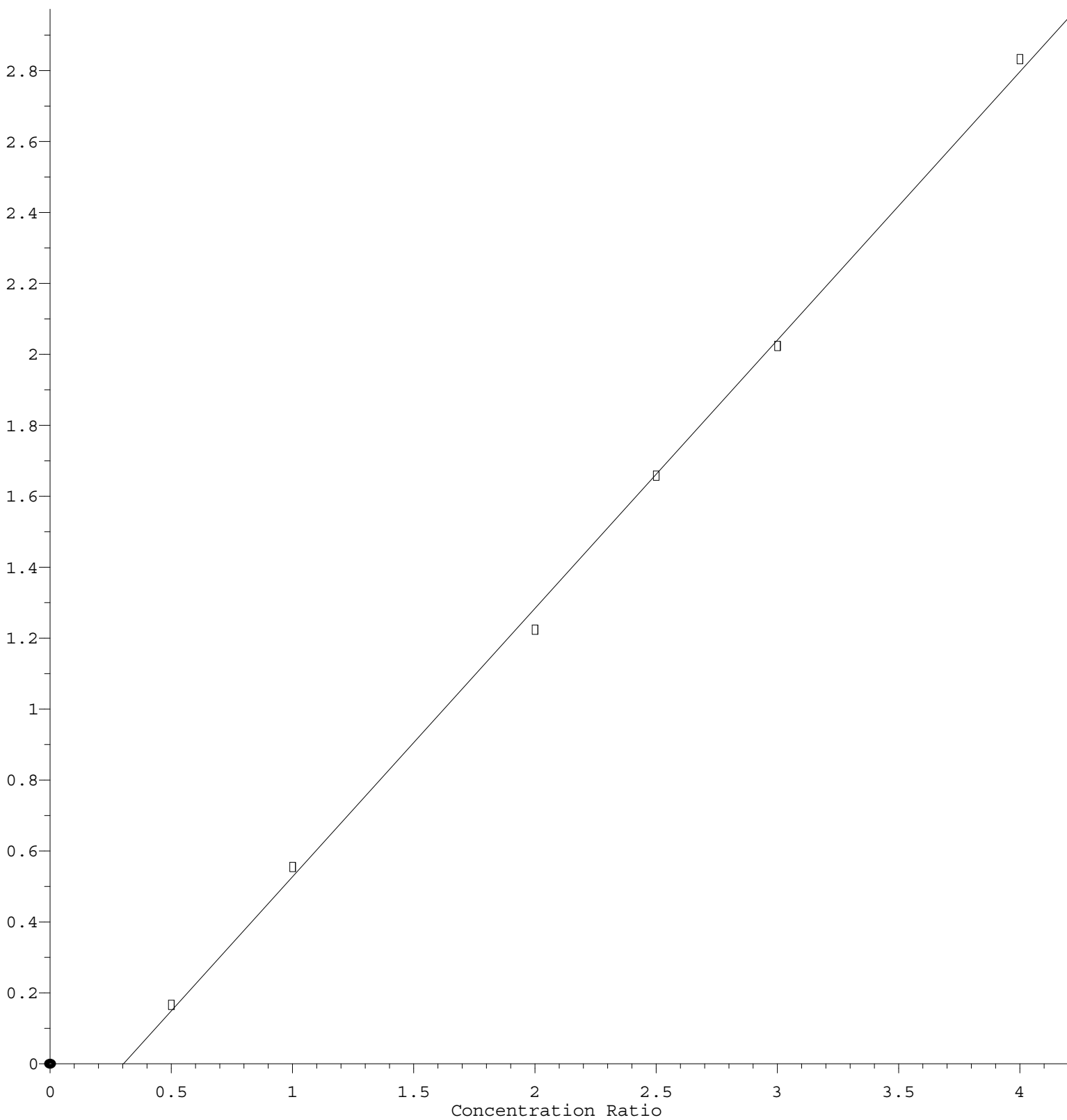
Coef of Det (r^2) = 0.998796 Curve Fit: Linear

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n-Nitrosodimethylamine

Response Ratio



$$\text{Response} = 7.564\text{e-}001 * \text{Amt} - 2.292\text{e-}001$$

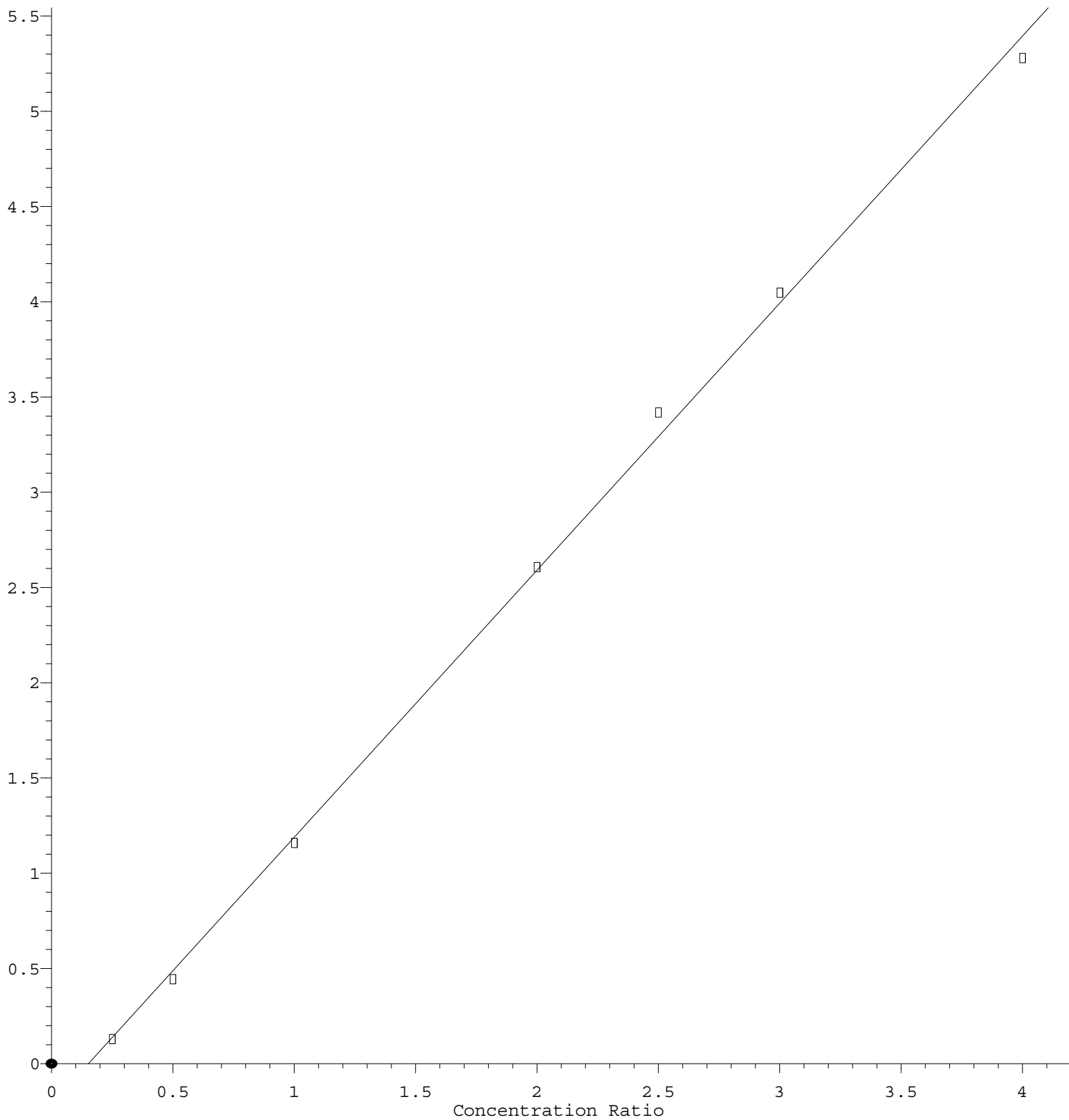
Coef of Det (r^2) = 0.998704 Curve Fit: Linear

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Pyridine

Response Ratio



$$\text{Response} = 1.402\text{e}+000 * \text{Amt} - 2.128\text{e}-001$$

Coef of Det (r^2) = 0.998428 Curve Fit: Linear

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