

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG031324.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Mar 14 00:45:22 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BG060621.D 5 =BG060622.D 10 =BG060623.D 20 =BG060624.D 40 =BG060625.D 50 =BG060626.D 60 =BG060627.D 80 =BG060628.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane		0.574	0.543	0.583	0.521	0.514	0.519	0.474	0.533	7.08
3)	Pyridine		1.589	1.575	1.626	1.587	1.551	1.566	1.523	1.574	2.06
4)	n-Nitrosodimet...		0.789	0.750	0.812	0.776	0.759	0.781	0.738	0.772	3.23
5) S	2-Fluorophenol		1.257	1.230	1.334	1.299	1.283	1.274	1.229	1.272	2.96
6)	Aniline		2.137	2.220	2.319	2.328	2.299	2.285	2.199	2.255	3.16
7) S	Phenol-d6		1.710	1.816	1.952	1.917	1.867	1.870	1.787	1.846	4.42
8)	2-Chlorophenol		1.336	1.359	1.445	1.431	1.395	1.404	1.365	1.391	2.83
9)	Benzaldehyde		1.091	1.076	1.168	1.084	0.998	0.959	0.857	1.033	9.96
10) C	Phenol		1.797	1.778	1.943	1.932	1.851	1.886	1.776	1.852	3.83
11)	bis(2-Chloroet...		1.483	1.488	1.524	1.516	1.432	1.486	1.405	1.476	2.93
12)	1,3-Dichlorobe...		1.506	1.477	1.590	1.500	1.490	1.498	1.436	1.500	3.09
13) C	1,4-Dichlorobe...		1.520	1.477	1.590	1.557	1.520	1.511	1.467	1.520	2.83
14)	1,2-Dichlorobe...		1.513	1.529	1.559	1.521	1.487	1.521	1.440	1.510	2.49
15)	Benzyl Alcohol		1.340	1.384	1.495	1.549	1.475	1.514	1.456	1.459	5.04
16)	2,2'-oxybis(1-...		2.752	2.810	3.040	2.934	2.837	2.916	2.773	2.866	3.58
17)	2-Methylphenol		1.306	1.350	1.499	1.496	1.428	1.461	1.414	1.422	5.10
18)	Hexachloroethane		0.481	0.506	0.552	0.526	0.519	0.536	0.515	0.519	4.37
19) P	n-Nitroso-di-n...	1.264	1.142	1.268	1.350	1.341	1.272	1.323	1.274	1.279	5.13
20)	3+4-Methylphenols		1.786	1.826	1.984	2.023	1.927	1.982	1.897	1.918	4.57
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone		0.527	0.523	0.559	0.548	0.535	0.545	0.516	0.536	2.85
23) S	Nitrobenzene-d5		0.343	0.349	0.397	0.398	0.399	0.410	0.394	0.384	6.94
24)	Nitrobenzene		0.348	0.351	0.398	0.401	0.393	0.406	0.392	0.384	6.28
25)	Isophorone		0.727	0.741	0.793	0.788	0.777	0.796	0.762	0.769	3.47
26) C	2-Nitrophenol		0.106	0.114	0.145	0.153	0.155	0.163	0.156	0.142	15.91
27)	2,4-Dimethylph...		0.380	0.332	0.349	0.337	0.329	0.336	0.319	0.340	5.79
28)	bis(2-Chloroet...		0.456	0.461	0.482	0.466	0.450	0.469	0.444	0.461	2.76
29) C	2,4-Dichloroph...		0.285	0.295	0.310	0.316	0.310	0.318	0.305	0.306	3.89
30)	1,2,4-Trichlor...		0.324	0.329	0.336	0.322	0.318	0.331	0.311	0.324	2.62
31)	Naphthalene		1.140	1.123	1.164	1.113	1.107	1.120	1.053	1.117	3.05
32)	Benzoic acid			0.113	0.170	0.217	0.221	0.237	0.234	0.199	24.53
33)	4-Chloroaniline		0.438	0.472	0.492	0.481	0.472	0.480	0.462	0.471	3.69
34) C	Hexachlorobuta...		0.219	0.219	0.231	0.221	0.222	0.225	0.212	0.221	2.63
35)	Caprolactam		0.087	0.101	0.108	0.106	0.105	0.108	0.105	0.103	6.92
36) C	4-Chloro-3-met...		0.349	0.362	0.390	0.385	0.379	0.385	0.371	0.374	3.91
37)	2-Methylnaphth...		0.788	0.767	0.817	0.773	0.760	0.766	0.729	0.772	3.49
38)	1-Methylnaphth...		0.740	0.719	0.764	0.732	0.712	0.722	0.681	0.724	3.53

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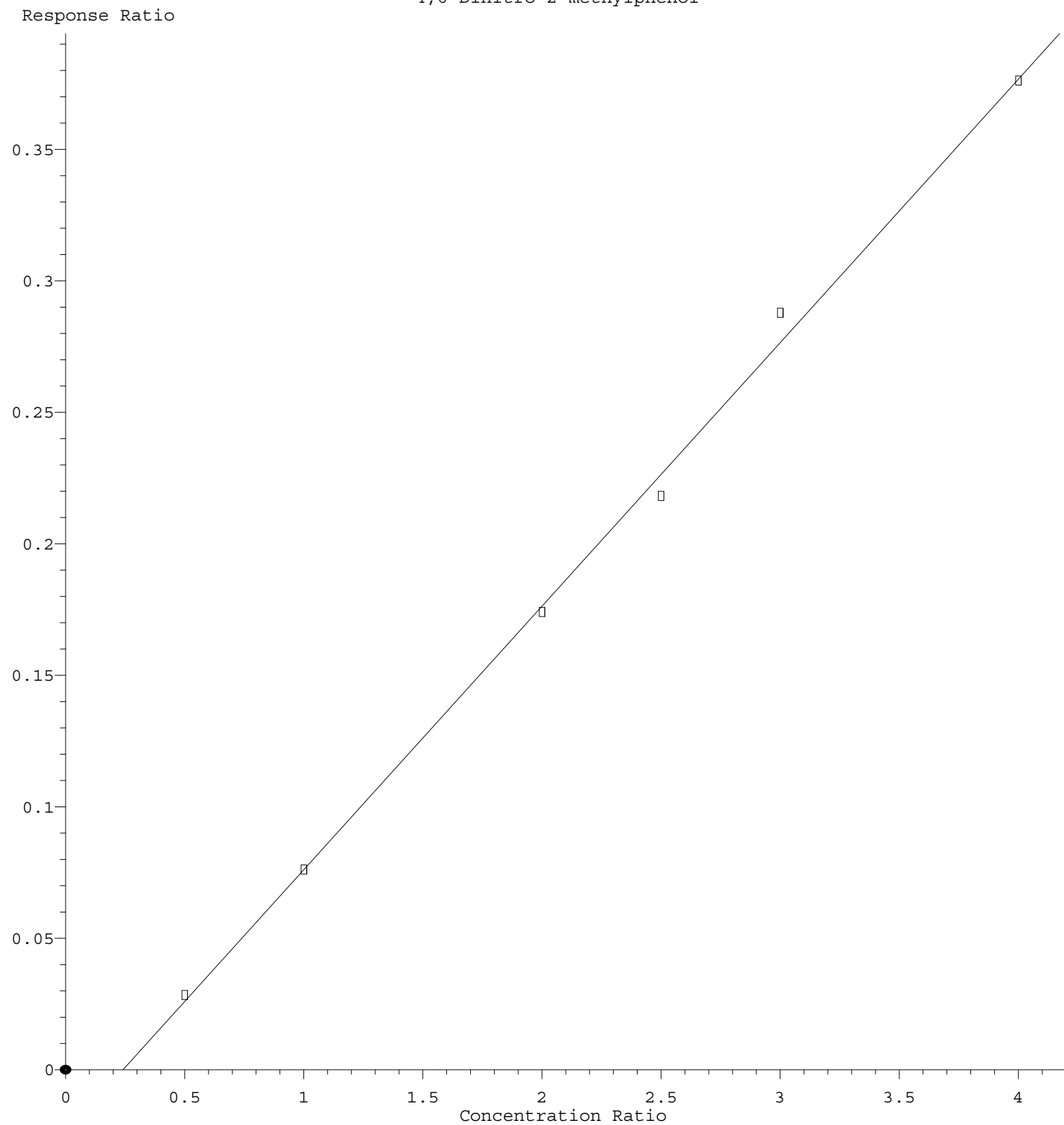
39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.590	0.611	0.639	0.613	0.619	0.631	0.597	0.614	2.83
41) P	Hexachlorocycl...	0.245	0.254	0.304	0.315	0.321	0.345	0.331	0.302	12.70
42) S	2,4,6-Tribromo...	0.178	0.218	0.234	0.245	0.248	0.254	0.245	0.232	11.46
43) C	2,4,6-Trichlor...	0.352	0.366	0.406	0.405	0.408	0.421	0.403	0.394	6.45
44)	2,4,5-Trichlor...	0.402	0.436	0.485	0.484	0.484	0.498	0.477	0.467	7.37
45) S	2-Fluorobiphenyl	1.509	1.518	1.596	1.471	1.459	1.461	1.340	1.479	5.26
46)	1,1'-Biphenyl	1.523	1.534	1.593	1.520	1.499	1.529	1.444	1.520	2.92
47)	2-Chloronaphth...	1.089	1.148	1.203	1.169	1.137	1.174	1.112	1.147	3.39
48)	2-Nitroaniline	0.277	0.327	0.376	0.411	0.416	0.428	0.415	0.379	14.98
49)	Acenaphthylene	1.813	1.868	1.957	1.881	1.882	1.897	1.785	1.869	3.00
50)	Dimethylphthalate	1.434	1.504	1.571	1.522	1.499	1.531	1.439	1.500	3.30
51)	2,6-Dinitrotol...	0.204	0.251	0.286	0.295	0.293	0.307	0.298	0.276	13.26
52) C	Acenaphthene	1.120	1.111	1.184	1.113	1.096	1.120	1.074	1.117	3.03
53)	3-Nitroaniline	0.264	0.289	0.331	0.332	0.337	0.344	0.331	0.318	9.29
54) P	2,4-Dinitrophenol		0.077	0.099	0.123	0.126	0.140	0.144	0.118	21.55
55)	Dibenzofuran	1.845	1.826	1.903	1.804	1.792	1.800	1.688	1.808	3.61
56) P	4-Nitrophenol		0.195	0.226	0.246	0.251	0.257	0.249	0.237	9.85
57)	2,4-Dinitrotol...	0.255	0.302	0.351	0.373	0.380	0.389	0.383	0.348	14.57
58)	Fluorene	1.413	1.464	1.532	1.453	1.436	1.468	1.361	1.447	3.65
59)	2,3,4,6-Tetrac...	0.320	0.376	0.394	0.406	0.411	0.415	0.402	0.389	8.53
60)	Diethylphthalate	1.496	1.559	1.617	1.554	1.538	1.565	1.473	1.543	3.08
61)	4-Chlorophenyl...	0.725	0.741	0.776	0.729	0.724	0.736	0.699	0.733	3.15
62)	4-Nitroaniline	0.252	0.307	0.338	0.347	0.344	0.350	0.342	0.326	10.90
63)	Azobenzene	1.524	1.600	1.696	1.621	1.589	1.614	1.537	1.597	3.58
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...		0.057	0.076	0.087	0.087	0.096	0.094	0.083	17.56
66) c	n-Nitrosodiphe...	0.605	0.616	0.674	0.631	0.621	0.639	0.596	0.626	4.11
67)	4-Bromophenyl-...	0.209	0.204	0.229	0.213	0.215	0.226	0.214	0.216	4.08
68)	Hexachlorobenzene	0.241	0.248	0.260	0.247	0.245	0.254	0.241	0.248	2.74
69)	Atrazine	0.192	0.207	0.224	0.214	0.209	0.213	0.206	0.209	4.78
70) C	Pentachlorophenol		0.119	0.153	0.170	0.170	0.176	0.176	0.161	13.61
71)	Phenanthrene	1.100	1.098	1.162	1.071	1.048	1.074	0.989	1.077	4.90
72)	Anthracene	1.082	1.102	1.158	1.092	1.075	1.101	1.015	1.089	3.89
73)	Carbazole	0.896	0.961	1.017	0.954	0.950	0.957	0.895	0.947	4.42
74)	Di-n-butylphth...	1.044	1.139	1.244	1.198	1.172	1.186	1.097	1.154	5.82
75) C	Fluoranthene	1.170	1.192	1.283	1.212	1.194	1.190	1.101	1.192	4.52
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.414	0.407	0.436	0.545	0.520	0.581	0.522	0.489	14.13
78)	Pyrene	1.385	1.423	1.489	1.414	1.375	1.398	1.286	1.396	4.37
79) S	Terphenyl-d14	1.201	1.204	1.244	1.096	1.065	1.028	0.907	1.106	10.77
80)	Butylbenzylpht...	0.436	0.477	0.542	0.557	0.560	0.575	0.547	0.528	9.69
81)	Benzo(a)anthra...	1.342	1.372	1.434	1.402	1.382	1.394	1.314	1.377	2.88
82)	3,3'-Dichlorob...	0.410	0.430	0.475	0.494	0.478	0.495	0.468	0.464	6.98
83)	Chrysene	1.344	1.335	1.385	1.346	1.320	1.359	1.271	1.337	2.66
84)	Bis(2-ethylhex...	0.668	0.705	0.795	0.826	0.815	0.847	0.800	0.779	8.52
85) c	Di-n-octyl pht...	1.039	1.134	1.296	1.375	1.368	1.425	1.348	1.283	11.10

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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.240	1.273	1.400	1.396	1.403	1.450	1.387	1.364	5.62
88)	Benzo(b)fluora...	1.030	1.059	1.149	1.137	1.097	1.148	1.082	1.100	4.22
89)	Benzo(k)fluora...	1.112	1.106	1.207	1.164	1.174	1.189	1.140	1.156	3.29
90) C	Benzo(a)pyrene	1.013	1.002	1.121	1.101	1.098	1.137	1.079	1.079	4.84
91)	Dibenzo(a,h)an...	1.087	1.078	1.184	1.182	1.175	1.225	1.176	1.158	4.69
92)	Benzo(g,h,i)pe...	1.019	1.059	1.152	1.154	1.146	1.182	1.137	1.121	5.26

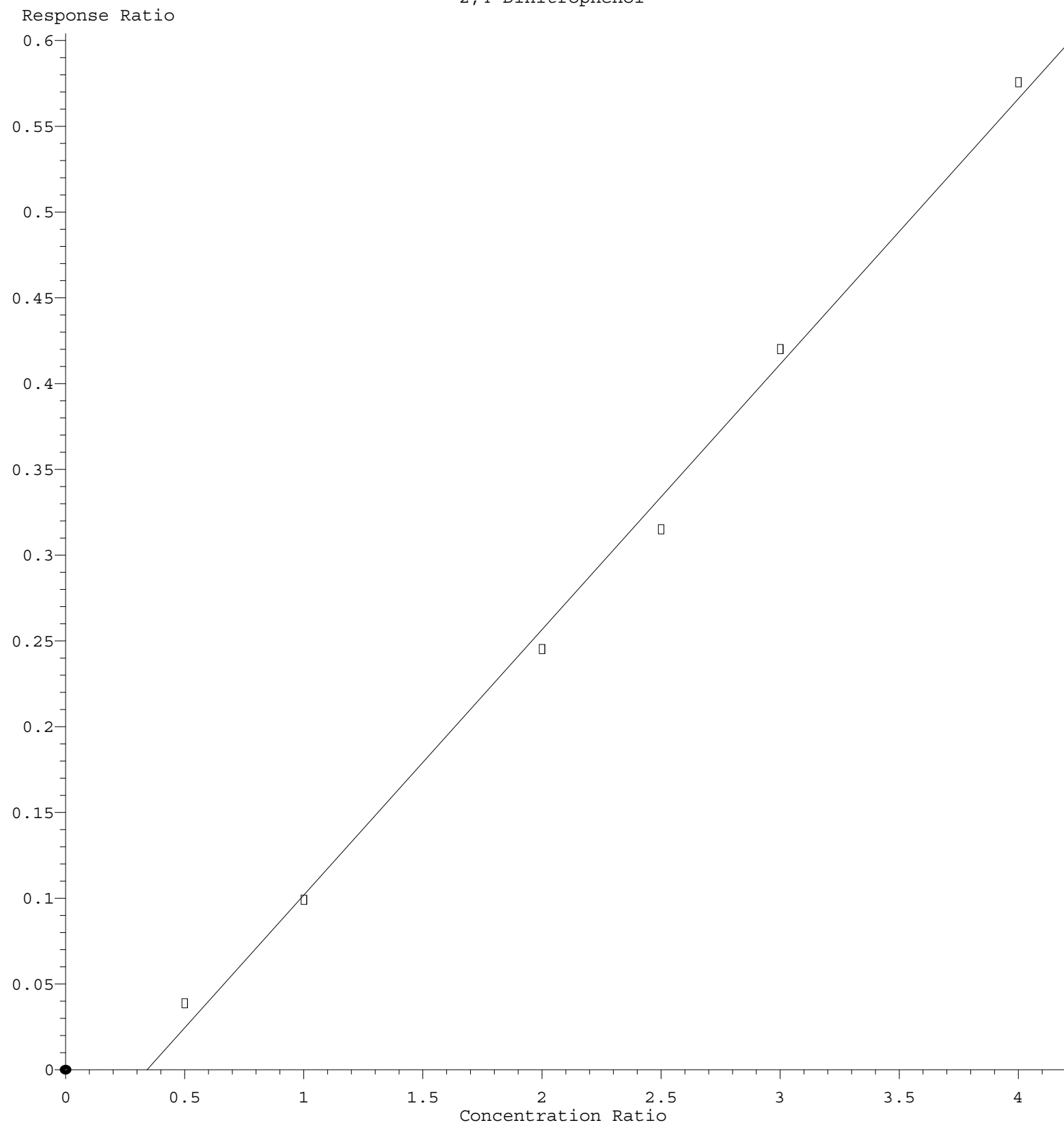
(#) = Out of Range

4,6-Dinitro-2-methylphenol



Response = $1.005 \times 10^{-1} \times \text{Amt} - 2.418 \times 10^{-2}$
Coef of Det (r^2) = 0.997569 Curve Fit: Linear
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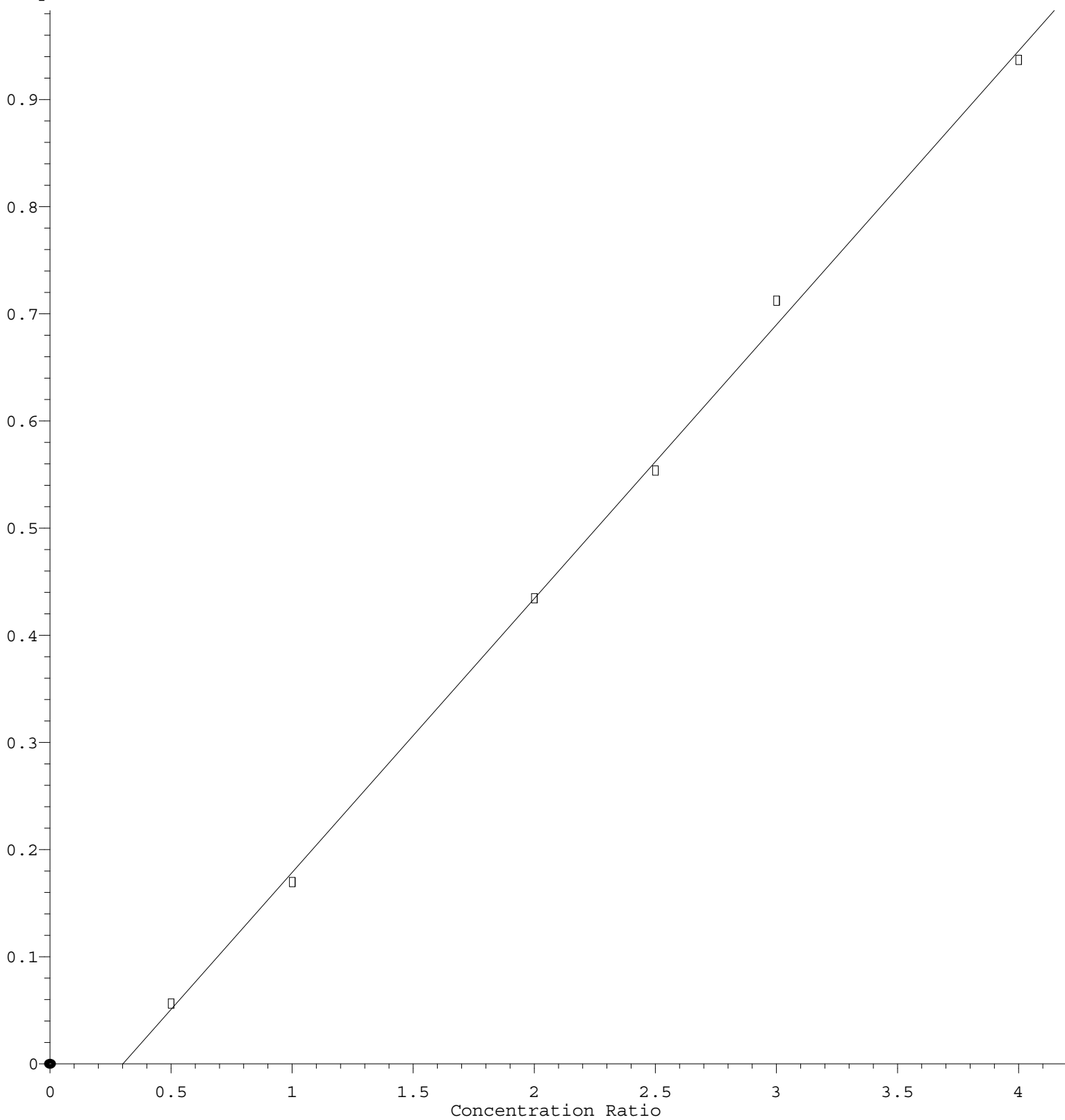
2,4-Dinitrophenol



Response = $1.547 \times 10^{-1} \times \text{Amt} - 5.295 \times 10^{-2}$
Coef of Det (r^2) = 0.995674 Curve Fit: Linear
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Benzoic acid

Response Ratio



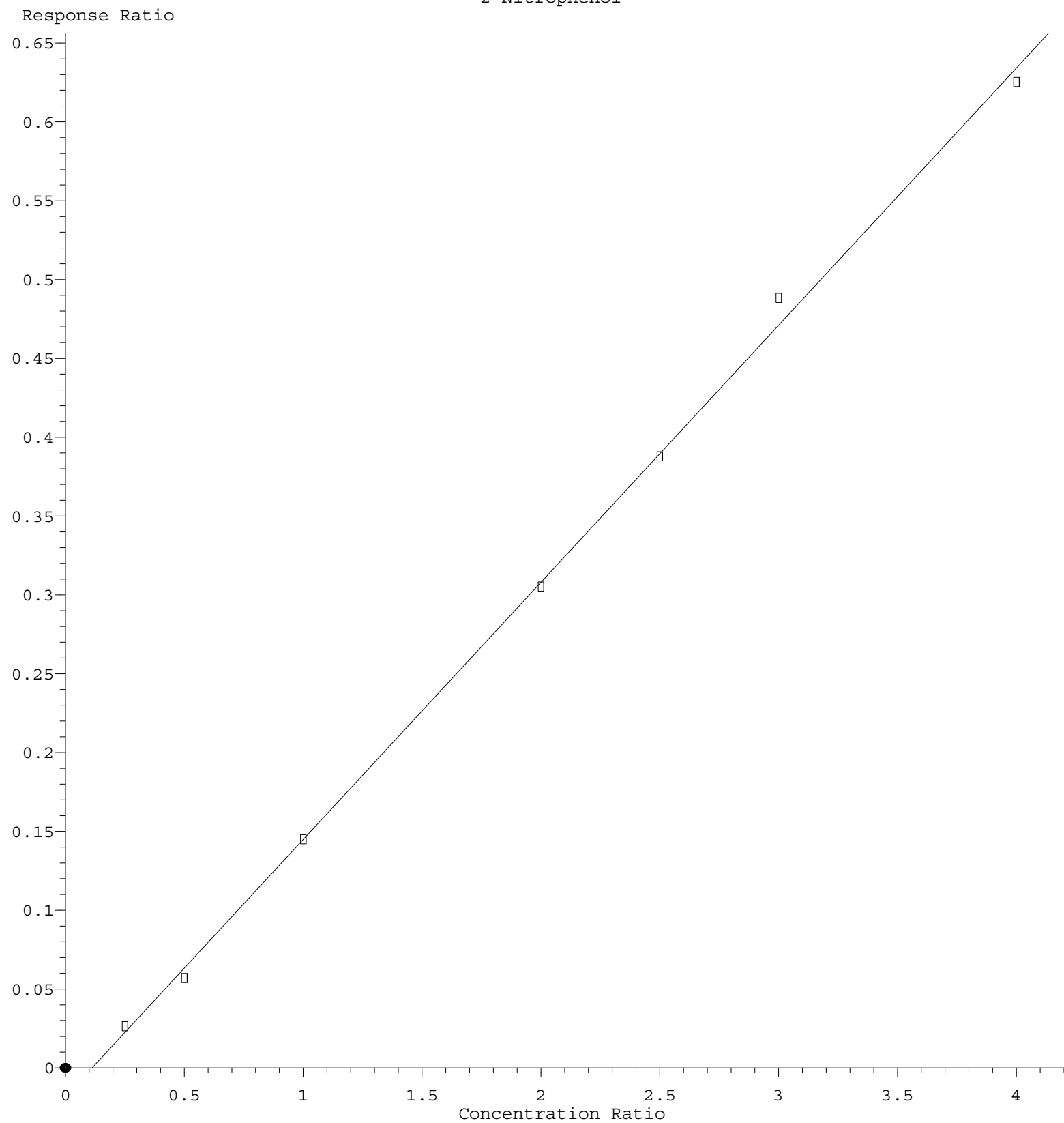
$$\text{Response} = 2.558\text{e-}001 * \text{Amt} - 7.700\text{e-}002$$

Coef of Det (r^2) = 0.998619 Curve Fit: Linear

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2-Nitrophenol



Response = 1.632e-001 * Amt - 1.825e-002
 Coef of Det (r^2) = 0.998561 Curve Fit: Linear
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