Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP051225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 13 03:56:11 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP024603.D 5 =BP024604.D 10 =BP024605.D 20 =BP024606.D 40 =BP024607.D 50 =BP024608.D 60 =BP024609.D 80 =BP0246
10.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	ISTD									
2)		1,4-Dioxane		0.536	0.525	0.517	0.499	0.481	0.490	0.468	0.502	4.94
3)		Pyridine		1.075	1.052	1.222	1.233	1.212	1.234	1.201	1.176	6.60
4)		n-Nitrosodimet...		0.516	0.510	0.521	0.520	0.515	0.527	0.509	0.517	1.24
5)	S	2-Fluorophenol		1.076	1.078	1.157	1.161	1.149	1.169	1.134	1.132	3.45
6)		Aniline		1.213	1.217	1.392	1.403	1.385	1.399	1.340	1.335	6.36
7)	S	Phenol-d6		1.337	1.356	1.544	1.545	1.542	1.571	1.526	1.489	6.59
8)		2-Chlorophenol		1.292	1.231	1.332	1.326	1.314	1.334	1.292	1.303	2.77
9)		Benzaldehyde		0.907	0.918	0.951	0.847	0.782	0.745	0.601	0.822	14.89
10)	C	Phenol		1.379	1.360	1.519	1.521	1.529	1.558	1.513	1.483	5.32
11)		bis(2-Chloroet...		1.224	1.133	1.253	1.211	1.208	1.227	1.173	1.204	3.28
12)		1,3-Dichlorobe...		1.507	1.429	1.484	1.438	1.394	1.415	1.369	1.434	3.36
13)	C	1,4-Dichlorobe...		1.534	1.444	1.505	1.473	1.419	1.450	1.394	1.460	3.31
14)		1,2-Dichlorobe...		1.512	1.428	1.459	1.404	1.362	1.390	1.336	1.413	4.20
15)		Benzyl Alcohol		0.792	0.868	1.039	1.092	1.125	1.147	1.120	1.026	13.62
16)		2,2'-oxybis(1-...		1.444	1.379	1.441	1.389	1.356	1.361	1.295	1.381	3.74
17)		2-Methylphenol		0.903	0.933	1.057	1.060	1.065	1.083	1.034	1.020	7.01
18)		Hexachloroethane		0.582	0.564	0.565	0.553	0.537	0.550	0.527	0.554	3.32
19)	P	n-Nitroso-di-n...	0.950	0.967	0.991	1.053	1.017	0.997	1.010	0.959	0.993	3.44
20)		3+4-Methylphenols		1.209	1.271	1.459	1.462	1.476	1.495	1.451	1.403	8.12
21)	I	Naphthalene-d8	ISTD									
22)		Acetophenone		0.462	0.467	0.509	0.477	0.471	0.497	0.470	0.479	3.66
23)	S	Nitrobenzene-d5		0.332	0.331	0.370	0.350	0.346	0.363	0.345	0.348	4.16
24)		Nitrobenzene		0.316	0.322	0.361	0.340	0.336	0.355	0.334	0.338	4.73
25)		Isophorone		0.570	0.592	0.645	0.613	0.607	0.637	0.606	0.610	4.23
26)	C	2-Nitrophenol		0.144	0.149	0.178	0.177	0.182	0.192	0.187	0.173	10.88
27)		2,4-Dimethylph...		0.189	0.191	0.218	0.210	0.212	0.225	0.213	0.208	6.43
28)		bis(2-Chloroet...		0.380	0.392	0.414	0.394	0.394	0.411	0.390	0.396	3.03
29)	C	2,4-Dichloroph...		0.245	0.255	0.303	0.298	0.300	0.316	0.303	0.289	9.35
30)		1,2,4-Trichlor...		0.328	0.320	0.335	0.313	0.310	0.328	0.314	0.321	2.86
31)		Naphthalene		1.067	1.035	1.094	1.023	1.008	1.065	1.010	1.043	3.13
32)		Benzoic acid			0.096	0.162	0.201	0.223	0.244	0.245	0.195	29.70
33)		4-Chloroaniline		0.296	0.308	0.372	0.366	0.366	0.383	0.370	0.351	9.83
34)	C	Hexachlorobuta...		0.218	0.206	0.214	0.203	0.198	0.209	0.201	0.207	3.43
35)		Caprolactam		0.081	0.089	0.104	0.104	0.104	0.113	0.110	0.101	11.25
36)	C	4-Chloro-3-met...		0.317	0.340	0.370	0.355	0.353	0.379	0.358	0.353	5.71
37)		2-Methylnaphth...		0.741	0.721	0.763	0.721	0.716	0.745	0.712	0.731	2.56
38)		1-Methylnaphth...		0.739	0.714	0.761	0.712	0.697	0.730	0.704	0.723	3.10

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.563	0.531	0.565	0.554	0.562	0.571	0.561	0.558	2.30
41)	P	Hexachlorocycl...	0.125	0.141	0.181	0.198	0.209	0.212	0.214	0.183	19.70
42)	S	2,4,6-Tribromo...	0.307	0.311	0.330	0.328	0.327	0.344	0.348	0.328	4.61
43)	C	2,4,6-Trichlor...	0.329	0.338	0.381	0.384	0.393	0.402	0.400	0.375	7.87
44)		2,4,5-Trichlor...	0.372	0.388	0.423	0.425	0.429	0.443	0.443	0.418	6.55
45)	S	2-Fluorobiphenyl	1.395	1.328	1.359	1.316	1.324	1.328	1.310	1.337	2.24
46)		1,1'-Biphenyl	1.470	1.413	1.472	1.433	1.431	1.427	1.417	1.438	1.66
47)		2-Chloronaphth...	1.099	1.075	1.129	1.076	1.079	1.097	1.086	1.092	1.76
48)		2-Nitroaniline	0.272	0.293	0.330	0.330	0.332	0.343	0.339	0.320	8.38
49)		Acenaphthylene	1.716	1.666	1.747	1.700	1.697	1.721	1.693	1.706	1.49
50)		Dimethylphthalate	1.524	1.499	1.527	1.467	1.456	1.500	1.469	1.492	1.90
51)		2,6-Dinitrotol...	0.300	0.307	0.327	0.322	0.320	0.328	0.324	0.318	3.38
52)	C	Acenaphthene	1.121	1.065	1.115	1.077	1.070	1.089	1.069	1.087	2.12
53)		3-Nitroaniline	0.245	0.274	0.314	0.320	0.326	0.336	0.335	0.307	11.18
54)	P	2,4-Dinitrophenol		0.114	0.154	0.179	0.189	0.204	0.208	0.175	20.21
55)		Dibenzofuran	1.845	1.784	1.839	1.744	1.718	1.745	1.715	1.770	3.06
56)	P	4-Nitrophenol		0.173	0.237	0.261	0.270	0.284	0.289	0.252	17.03
57)		2,4-Dinitrotol...	0.387	0.414	0.456	0.451	0.452	0.458	0.452	0.439	6.21
58)		Fluorene	1.406	1.371	1.409	1.357	1.352	1.372	1.355	1.375	1.74
59)		2,3,4,6-Tetrac...	0.381	0.374	0.404	0.393	0.397	0.404	0.403	0.394	3.01
60)		Diethylphthalate	1.609	1.555	1.584	1.518	1.495	1.542	1.511	1.545	2.66
61)		4-Chlorophenyl...	0.714	0.695	0.710	0.676	0.676	0.697	0.686	0.693	2.17
62)		4-Nitroaniline	0.230	0.268	0.321	0.320	0.325	0.339	0.336	0.306	13.38
63)		Azobenzene	1.328	1.320	1.380	1.304	1.296	1.317	1.281	1.318	2.40
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.085	0.101	0.126	0.132	0.136	0.140	0.139	0.123	17.34
66)	c	n-Nitrosodiphe...	0.585	0.588	0.626	0.605	0.600	0.603	0.580	0.598	2.58
67)		4-Bromophenyl-...	0.237	0.227	0.243	0.238	0.236	0.241	0.233	0.236	2.29
68)		Hexachlorobenzene	0.302	0.289	0.308	0.287	0.289	0.298	0.287	0.294	2.81
69)		Atrazine	0.206	0.207	0.218	0.204	0.195	0.199	0.184	0.202	5.17
70)	C	Pentachlorophenol	0.149	0.167	0.192	0.195	0.203	0.211	0.208	0.189	12.22
71)		Phenanthrene	1.106	1.087	1.125	1.072	1.056	1.081	1.024	1.079	3.05
72)		Anthracene	1.053	1.022	1.106	1.053	1.042	1.070	1.030	1.054	2.65
73)		Carbazole	0.916	0.961	1.029	1.017	0.980	1.034	0.983	0.988	4.28
74)		Di-n-butylphth...	1.254	1.291	1.392	1.350	1.331	1.368	1.322	1.330	3.51
75)	C	Fluoranthene	1.319	1.312	1.376	1.325	1.287	1.315	1.268	1.315	2.56
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.142	0.126	0.239	0.273	0.290	0.323	0.243	0.234	31.67
78)		Pyrene	1.171	1.185	1.263	1.197	1.223	1.232	1.200	1.210	2.60
79)	S	Terphenyl-d14	1.027	1.002	1.064	0.999	1.025	1.031	1.003	1.022	2.27
80)		Butylbenzylpht...	0.473	0.491	0.560	0.556	0.563	0.577	0.559	0.540	7.51
81)		Benzo(a)anthra...	1.213	1.212	1.264	1.203	1.198	1.238	1.198	1.218	2.02
82)		3,3'-Dichlorob...	0.237	0.249	0.299	0.315	0.301	0.329	0.307	0.291	11.80
83)		Chrysene	1.221	1.174	1.221	1.160	1.148	1.199	1.137	1.180	2.89
84)		Bis(2-ethylhex...	0.690	0.739	0.829	0.800	0.827	0.835	0.825	0.792	7.04
85)	c	Di-n-octyl pht...	1.095	1.172	1.335	1.366	1.379	1.435	1.410	1.313	9.80

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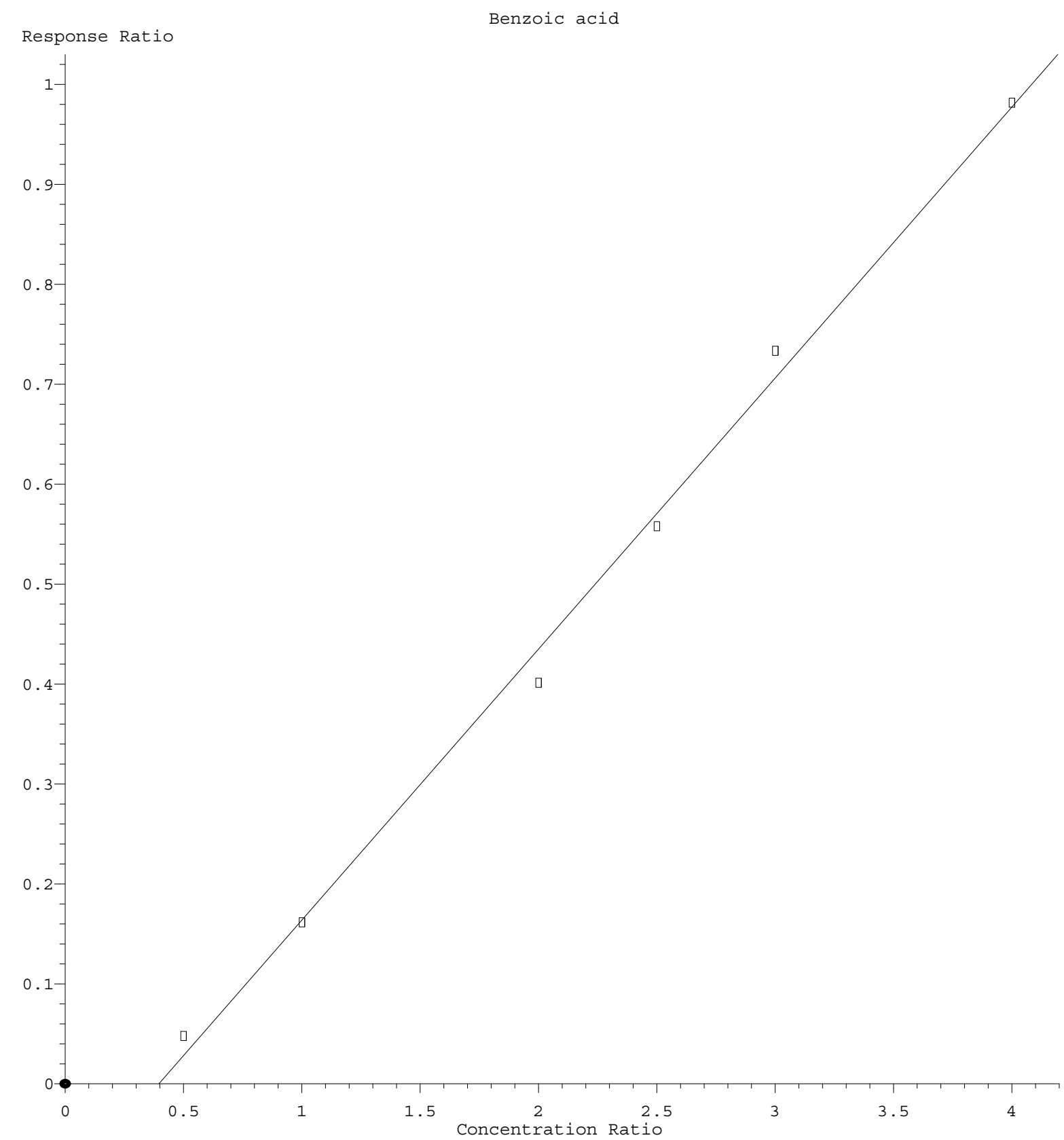
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.284	1.263	1.414	1.386	1.372	1.452	1.396	1.367	5.04
88)		Benzo(b)fluora...	1.112	1.105	1.182	1.156	1.160	1.197	1.169	1.154	2.97
89)		Benzo(k)fluora...	1.123	1.067	1.197	1.146	1.143	1.161	1.136	1.139	3.48
90)	C	Benzo(a)pyrene	0.932	0.940	1.036	1.010	1.010	1.050	1.016	0.999	4.57
91)		Dibenzo(a,h)an...	0.991	1.051	1.174	1.148	1.143	1.194	1.148	1.121	6.48
92)		Benzo(g,h,i)pe...	1.086	1.098	1.197	1.170	1.163	1.221	1.176	1.159	4.30

(#) = Out of Range



Response = 2.714e-001 * Amt - 1.075e-001
Coef of Det (r^2) = 0.996027 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP051225.M
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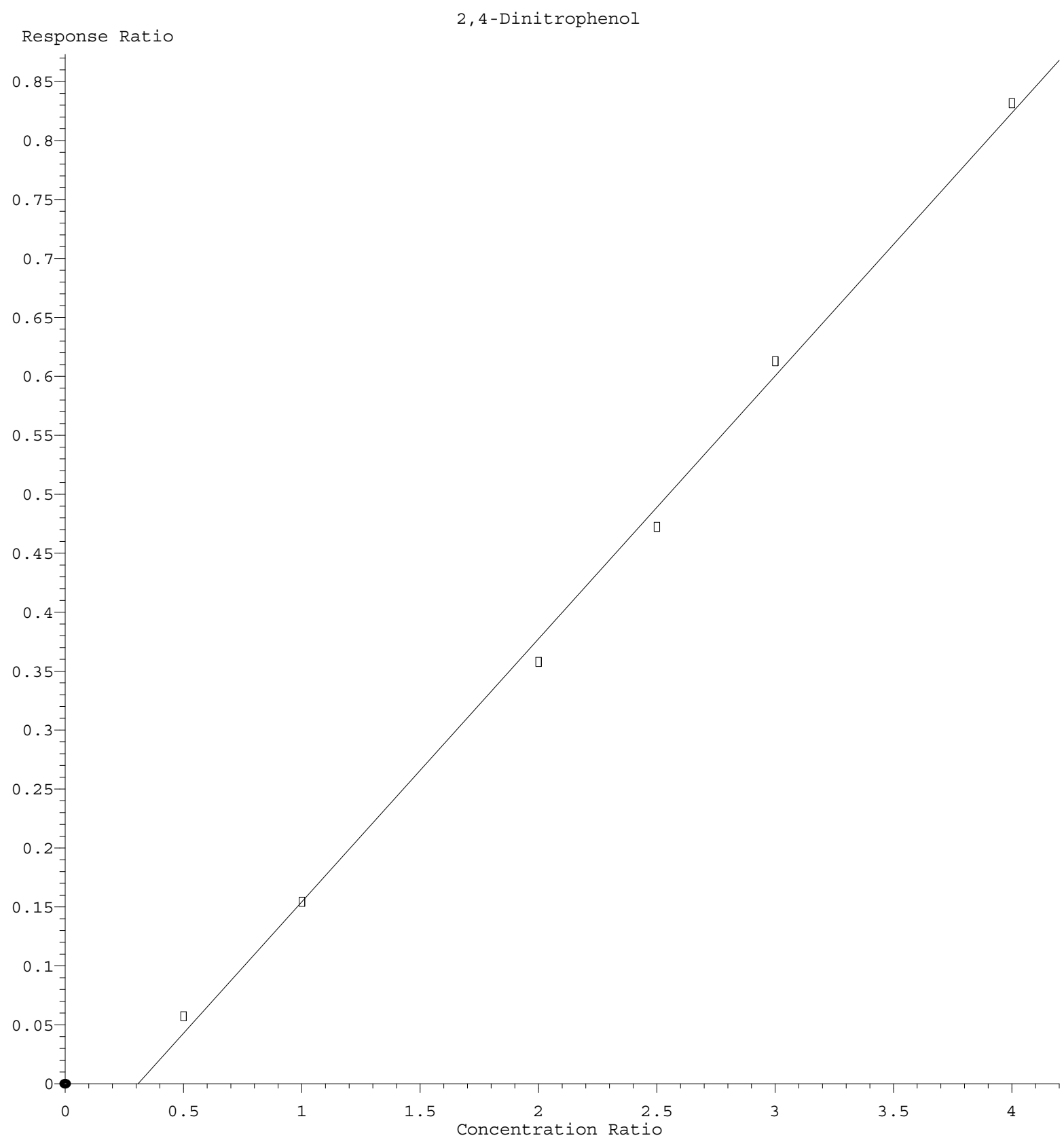

Response = 2.229e-001 * Amt - 6.868e-002
Coef of Det (r^2) = 0.997374 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP051225.M
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