Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG122123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Dec 22 03:42:04 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BG060120.D 5 =BG060121.D 10 =BG060122.D 20 =BG060123.D 40 =BG060124.D 50 =BG060125.D 60 =BG060126.D 80 =BG0601
27.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.525	0.633	0.555	0.529	0.508	0.501	0.460	0.530	10.18
3)		Pyridine		1.716	1.795	1.677	1.875	1.661	1.625	1.650	1.714	5.25
4)		n-Nitrosodimet...		0.819	0.754	0.783	0.832	0.748	0.761	0.754	0.779	4.38
5)	S	2-Fluorophenol		1.224	1.212	1.297	1.289	1.268	1.329	1.266	1.269	3.22
6)		Aniline		2.033	2.103	2.227	2.468	2.227	2.275	2.282	2.231	6.24
7)	S	Phenol-d6		1.912	1.931	2.136	2.323	2.133	2.237	2.280	2.136	7.60
8)		2-Chlorophenol		1.267	1.328	1.411	1.500	1.390	1.481	1.468	1.406	6.09
9)		Benzaldehyde		1.385	1.315	1.295	1.196	1.070	1.062	0.972	1.185	13.02
10)	C	Phenol		1.892	1.818	2.184	2.326	2.164	2.288	2.270	2.134	9.39
11)		bis(2-Chloroet...		1.680	1.585	1.679	1.780	1.604	1.715	1.687	1.676	3.92
12)		1,3-Dichlorobe...		1.520	1.602	1.664	1.617	1.522	1.580	1.498	1.572	3.85
13)	C	1,4-Dichlorobe...		1.647	1.642	1.724	1.669	1.567	1.613	1.518	1.626	4.16
14)		1,2-Dichlorobe...		1.630	1.604	1.702	1.695	1.590	1.638	1.603	1.637	2.74
15)		Benzyl Alcohol		1.392	1.443	1.516	1.794	1.521	1.643	1.668	1.568	8.95
16)		2,2'-oxybis(1-...		3.210	3.096	3.198	3.329	2.930	3.093	2.962	3.117	4.54
17)		2-Methylphenol		1.333	1.352	1.502	1.610	1.454	1.551	1.566	1.481	7.21
18)		Hexachloroethane		0.539	0.528	0.584	0.548	0.515	0.555	0.508	0.540	4.76
19)	P	n-Nitroso-di-n...	1.276	1.611	1.723	1.681	1.924	1.613	1.714	1.746	1.661	11.06
20)		3+4-Methylphenols		1.898	1.861	2.108	2.386	2.116	2.248	2.265	2.126	9.09
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.535	0.574	0.584	0.583	0.563	0.585	0.570	0.570	3.07
23)	S	Nitrobenzene-d5		0.400	0.383	0.417	0.420	0.399	0.424	0.414	0.408	3.59
24)		Nitrobenzene		0.390	0.401	0.432	0.435	0.423	0.439	0.432	0.422	4.49
25)		Isophorone		1.103	1.029	0.962	1.051	0.948	0.927	0.945	0.995	6.68
26)	C	2-Nitrophenol		0.140	0.152	0.174	0.178	0.168	0.180	0.177	0.167	9.09
27)		2,4-Dimethylph...		0.216	0.212	0.232	0.246	0.233	0.238	0.233	0.230	5.15
28)		bis(2-Chloroet...		0.527	0.515	0.537	0.547	0.494	0.527	0.510	0.522	3.38
29)	C	2,4-Dichloroph...		0.296	0.316	0.355	0.369	0.347	0.363	0.356	0.343	7.87
30)		1,2,4-Trichlor...		0.357	0.362	0.389	0.376	0.361	0.373	0.361	0.368	3.12
31)		Naphthalene		1.050	1.064	1.102	1.117	1.035	1.052	1.034	1.065	3.04
32)		Benzoic acid			0.139	0.182	0.269	0.269	0.263	0.302	0.237	26.35
33)		4-Chloroaniline		0.428	0.443	0.452	0.514	0.474	0.445	0.466	0.460	6.14
34)	C	Hexachlorobuta...		0.198	0.207	0.224	0.207	0.203	0.207	0.194	0.206	4.63
35)		Caprolactam		0.178	0.194	0.150	0.205	0.191	0.153	0.185	0.179	11.62
36)	C	4-Chloro-3-met...		0.393	0.371	0.403	0.457	0.429	0.389	0.428	0.410	7.19
37)		2-Methylnaphth...		0.812	0.801	0.848	0.883	0.808	0.809	0.824	0.826	3.53
38)		1-Methylnaphth...		0.823	0.818	0.840	0.877	0.813	0.814	0.822	0.829	2.75

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.531	0.515	0.566	0.513	0.481	0.551	0.509	0.524	5.42
41)	P	Hexachlorocycl...	0.152	0.163	0.201	0.175	0.172	0.200	0.176	0.177	10.27
42)	S	2,4,6-Tribromo...	0.261	0.270	0.256	0.292	0.272	0.263	0.272	0.269	4.31
43)	C	2,4,6-Trichlor...	0.376	0.368	0.422	0.406	0.369	0.405	0.389	0.391	5.35
44)		2,4,5-Trichlor...	0.456	0.407	0.443	0.462	0.428	0.452	0.455	0.443	4.41
45)	S	2-Fluorobiphenyl	1.478	1.403	1.471	1.346	1.215	1.239	1.172	1.332	9.37
46)		1,1'-Biphenyl	1.586	1.440	1.544	1.439	1.343	1.449	1.371	1.453	5.95
47)		2-Chloronaphth...	1.231	1.146	1.264	1.208	1.119	1.222	1.151	1.192	4.47
48)		2-Nitroaniline	0.372	0.355	0.373	0.411	0.391	0.400	0.420	0.389	6.02
49)		Acenaphthylene	1.865	1.840	1.971	1.951	1.790	1.822	1.798	1.863	3.88
50)		Dimethylphthalate	1.987	1.863	1.706	1.837	1.677	1.594	1.649	1.759	7.96
51)		2,6-Dinitrotol...	0.311	0.330	0.343	0.377	0.356	0.363	0.382	0.352	7.32
52)	C	Acenaphthene	1.181	1.130	1.165	1.184	1.091	1.138	1.129	1.145	2.92
53)		3-Nitroaniline	0.332	0.358	0.347	0.408	0.391	0.372	0.408	0.374	7.98
54)	P	2,4-Dinitrophenol		0.116	0.163	0.218	0.218	0.206	0.241	0.194	23.79
55)		Dibenzofuran	2.044	1.951	1.968	1.999	1.864	1.855	1.824	1.929	4.28
56)	P	4-Nitrophenol	0.258	0.268	0.275	0.336	0.349	0.320	0.366	0.310	13.94
57)		2,4-Dinitrotol...	0.437	0.483	0.487	0.568	0.542	0.516	0.584	0.517	10.04
58)		Fluorene	1.697	1.693	1.654	1.701	1.583	1.526	1.571	1.632	4.36
59)		2,3,4,6-Tetrac...	0.383	0.385	0.410	0.424	0.404	0.382	0.399	0.398	3.99
60)		Diethylphthalate	2.138	2.099	1.783	2.014	1.833	1.661	1.774	1.900	9.61
61)		4-Chlorophenyl...	0.811	0.785	0.781	0.816	0.748	0.749	0.757	0.778	3.64
62)		4-Nitroaniline	0.402	0.423	0.395	0.482	0.470	0.420	0.480	0.439	8.58
63)		Azobenzene	1.771	1.769	1.681	1.778	1.657	1.596	1.622	1.696	4.49
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.071	0.092	0.112	0.122	0.115	0.123	0.122	0.108	18.27
66)	c	n-Nitrosodiphe...	0.531	0.524	0.573	0.549	0.493	0.537	0.486	0.528	5.81
67)		4-Bromophenyl-...	0.197	0.185	0.199	0.192	0.175	0.194	0.178	0.188	5.02
68)		Hexachlorobenzene	0.217	0.217	0.230	0.220	0.200	0.222	0.205	0.216	4.79
69)		Atrazine	0.254	0.239	0.186	0.174	0.176	0.198	0.146	0.196	19.47
70)	C	Pentachlorophenol	0.111	0.120	0.139	0.149	0.135	0.142	0.138	0.134	10.06
71)		Phenanthrene	1.123	1.048	1.090	1.055	0.929	0.941	0.867	1.008	9.45
72)		Anthracene	1.082	1.072	1.094	1.064	0.947	0.959	0.883	1.014	8.20
73)		Carbazole	1.171	1.175	1.116	1.120	1.017	0.998	0.942	1.077	8.48
74)		Di-n-butylphth...	1.542	1.525	1.306	1.336	1.165	1.081	0.984	1.277	16.71
75)	C	Fluoranthene	1.542	1.516	1.407	1.376	1.209	1.137	1.074	1.323	13.96
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.611	0.483	0.585	0.485	0.560	0.599	0.463	0.541	11.50
78)		Pyrene	1.531	1.456	1.950	1.601	1.381	1.509	1.260	1.527	14.21
79)	S	Terphenyl-d14	1.268	1.192	1.373	1.043	0.853	0.903		1.105	18.72
80)		Butylbenzylpht...	0.442	0.443	0.526	0.554	0.529	0.554	0.533	0.512	9.47
81)		Benzo(a)anthra...	1.481	1.383	1.444	1.353	1.230	1.277	1.134	1.329	9.23
82)		3,3'-Dichlorob...	0.398	0.381	0.411	0.404	0.384	0.402	0.379	0.394	3.29
83)		Chrysene	1.375	1.304	1.348	1.290	1.159	1.194	1.065	1.248	8.98
84)		Bis(2-ethylhex...	0.627	0.578	0.762	0.710	0.684	0.727	0.686	0.682	9.08
85)	c	Di-n-octyl pht...	1.034	0.982	1.283	1.198	1.135	1.216	1.106	1.136	9.28

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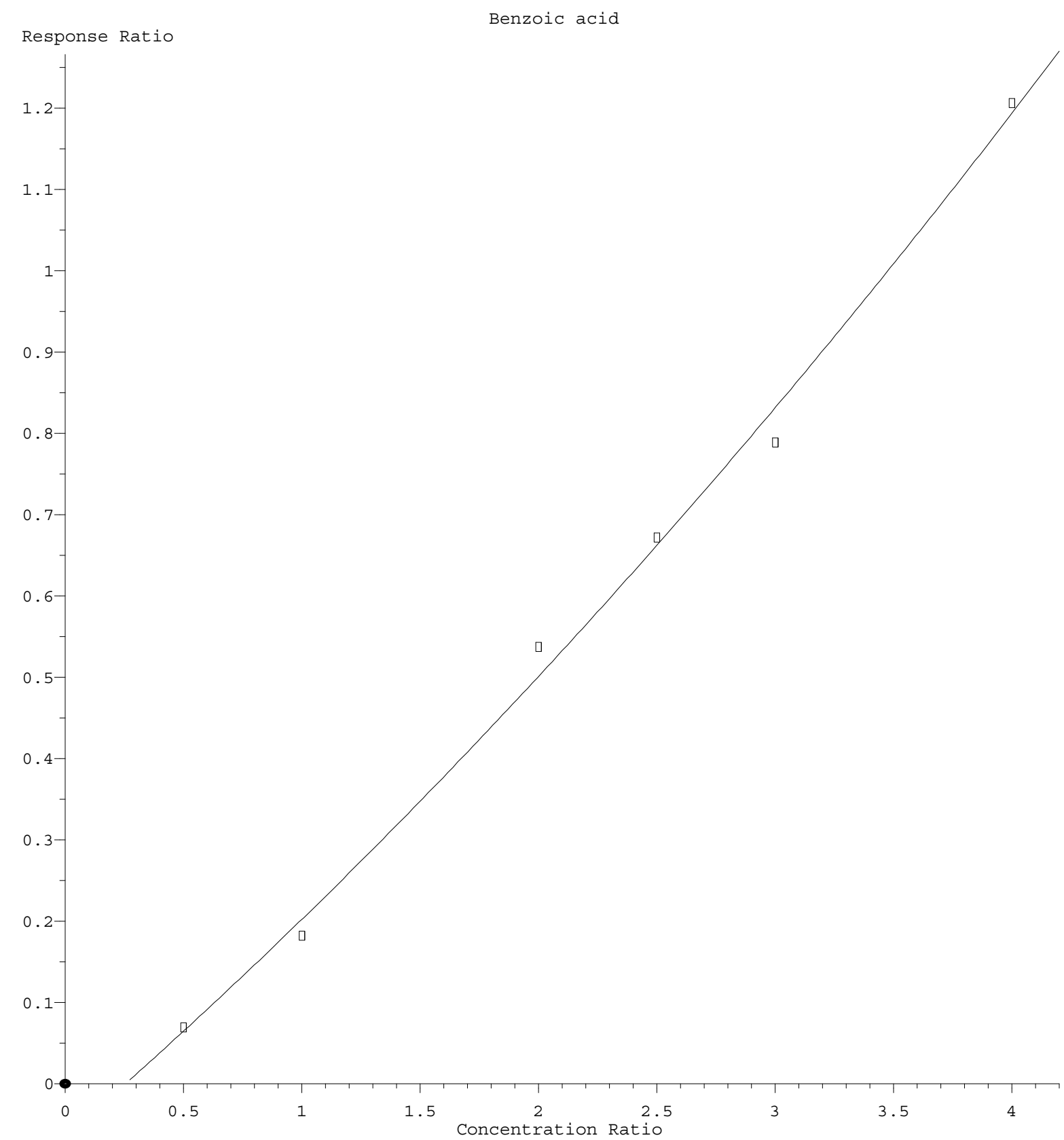
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.407	1.323	1.422	1.455	1.344	1.435	1.385	1.396	3.45
88)		Benzo(b)fluora...	1.372	1.283	1.318	1.310	1.160	1.234	1.175	1.265	6.17
89)		Benzo(k)fluora...	1.379	1.280	1.263	1.232	1.156	1.235	1.130	1.239	6.64
90)	C	Benzo(a)pyrene	1.158	1.109	1.152	1.138	1.060	1.124	1.059	1.114	3.69
91)		Dibenzo(a,h)an...	1.153	1.114	1.178	1.196	1.103	1.187	1.138	1.153	3.15
92)		Benzo(g,h,i)pe...	1.211	1.093	1.189	1.180	1.124	1.205	1.150	1.165	3.77

(#) = Out of Range



R = 1.583e-002 A*A + 2.513e-001 A - 6.495e-002
Coef of Det (r^2) = 0.995592 Curve Fit: Quadratic
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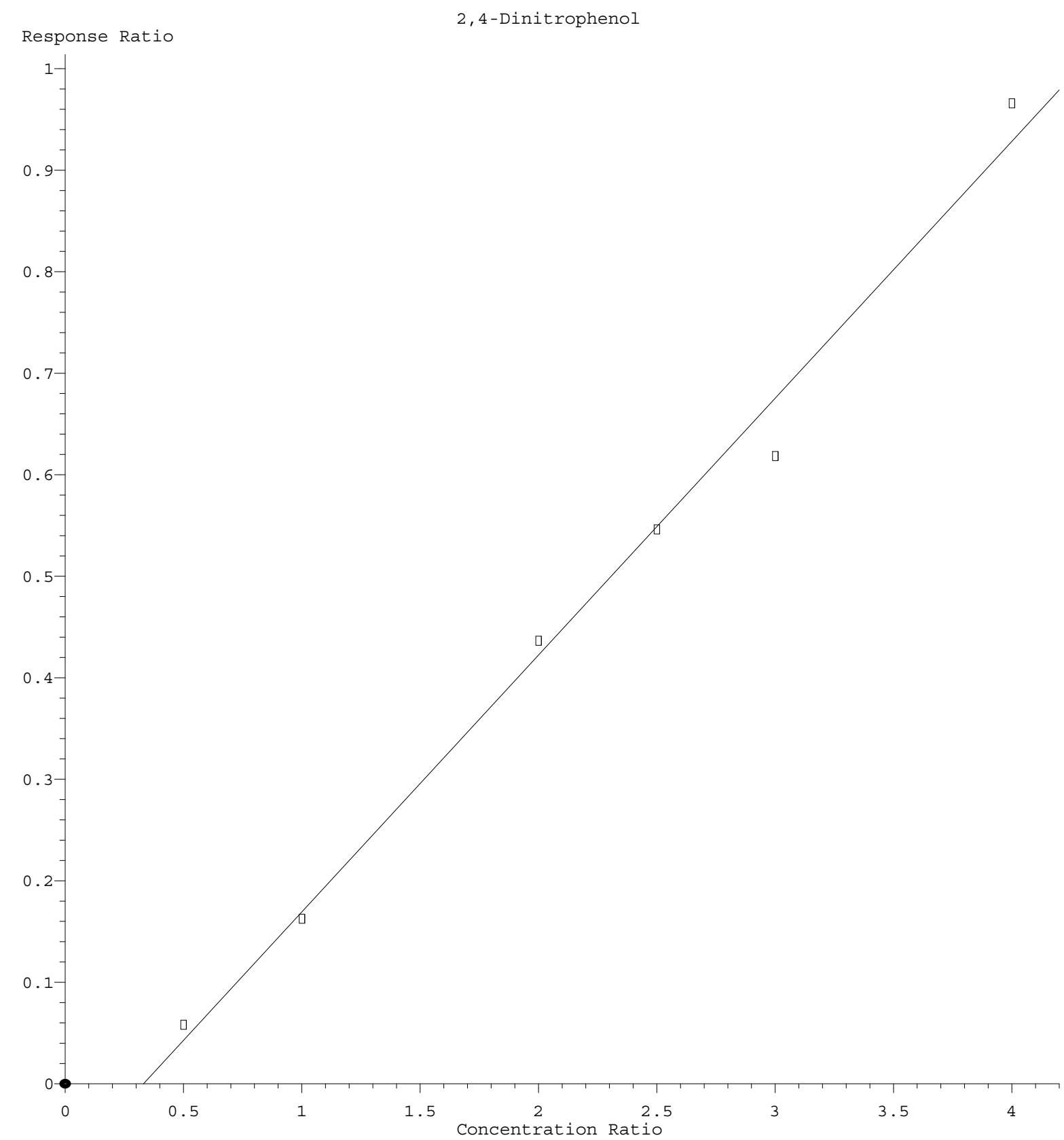

Response = 2.531e-001 * Amt - 8.375e-002
Coef of Det (r^2) = 0.990475 Curve Fit: Linear
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