Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG122623.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Dec 27 00:45:31 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BG060165.D 5 =BG060166.D 10 =BG060167.D 20 =BG060168.D 40 =BG060169.D 50 =BG060170.D 60 =BG060171.D 80 =BG0601
72.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.557	0.582	0.572	0.551	0.456	0.501	0.464	0.526	9.91
3)		Pyridine		1.458	1.566	1.652	1.794	1.465	1.525	1.456	1.559	8.06
4)		n-Nitrosodimet...		0.628	0.601	0.660	0.693	0.558	0.612	0.584	0.620	7.38
5)	S	2-Fluorophenol		1.241	1.206	1.351	1.239	1.211	1.286	1.213	1.249	4.21
6)		Aniline		1.932	1.884	2.187	2.154	2.028	2.069	1.960	2.031	5.58
7)	S	Phenol-d6		1.818	1.860	2.124	2.148	1.959	2.006	1.892	1.972	6.48
8)		2-Chlorophenol		1.256	1.252	1.410	1.385	1.297	1.369	1.290	1.322	4.86
9)		Benzaldehyde		1.333	1.260	1.323	1.101	0.974	0.994	0.834	1.117	17.36
10)	C	Phenol		1.835	1.875	2.180	2.183	2.034	2.112	1.996	2.031	6.85
11)		bis(2-Chloroet...		1.509	1.538	1.748	1.705	1.554	1.629	1.556	1.606	5.66
12)		1,3-Dichlorobe...		1.552	1.599	1.678	1.586	1.446	1.523	1.470	1.550	5.13
13)	C	1,4-Dichlorobe...		1.663	1.531	1.702	1.648	1.491	1.574	1.493	1.586	5.40
14)		1,2-Dichlorobe...		1.686	1.589	1.675	1.622	1.522	1.576	1.500	1.596	4.45
15)		Benzyl Alcohol		1.223	1.244	1.509	1.526	1.417	1.417	1.375	1.387	8.52
16)		2,2'-oxybis(1-...		2.378	2.269	2.453	2.404	2.211	2.251	2.141	2.301	4.91
17)		2-Methylphenol		1.294	1.294	1.445	1.473	1.369	1.414	1.344	1.376	5.14
18)		Hexachloroethane		0.580	0.524	0.602	0.539	0.508	0.542	0.512	0.544	6.49
19)	P	n-Nitroso-di-n...	1.360	1.448	1.420	1.633	1.659	1.494	1.445	1.423	1.485	7.15
20)		3+4-Methylphenols		1.762	1.810	2.090	2.088	1.938	1.900	1.889	1.926	6.56
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.579	0.580	0.595	0.598	0.559	0.571	0.554	0.577	2.93
23)	S	Nitrobenzene-d5		0.416	0.409	0.445	0.439	0.412	0.429	0.412	0.423	3.46
24)		Nitrobenzene		0.437	0.422	0.450	0.457	0.432	0.453	0.444	0.442	2.81
25)		Isophorone		0.911	0.915	0.960	0.955	0.872	0.874	0.827	0.902	5.30
26)	C	2-Nitrophenol		0.159	0.156	0.175	0.182	0.180	0.181	0.181	0.173	6.44
27)		2,4-Dimethylph...		0.184	0.200	0.225	0.229	0.224	0.234	0.226	0.217	8.43
28)		bis(2-Chloroet...		0.546	0.538	0.558	0.553	0.516	0.531	0.502	0.535	3.82
29)	C	2,4-Dichloroph...		0.319	0.330	0.356	0.376	0.356	0.370	0.357	0.352	5.75
30)		1,2,4-Trichlor...		0.404	0.385	0.418	0.414	0.390	0.409	0.388	0.401	3.26
31)		Naphthalene		1.106	1.041	1.085	1.066	0.992	1.007	0.945	1.035	5.48
32)		Benzoic acid			0.122	0.168	0.245	0.241	0.238	0.253	0.211	25.43
33)		4-Chloroaniline		0.404	0.401	0.438	0.449	0.421	0.421	0.408	0.420	4.27
34)	C	Hexachlorobuta...		0.254	0.234	0.243	0.240	0.226	0.241	0.233	0.239	3.72
35)		Caprolactam		0.133	0.129	0.133	0.132	0.124	0.119	0.117	0.127	5.37
36)	C	4-Chloro-3-met...		0.369	0.375	0.398	0.399	0.377	0.385	0.366	0.381	3.46
37)		2-Methylnaphth...		0.827	0.802	0.826	0.831	0.763	0.784	0.724	0.794	5.01
38)		1-Methylnaphth...		0.831	0.811	0.842	0.820	0.768	0.775	0.735	0.797	4.89

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.632	0.556	0.610	0.606	0.593	0.624	0.601	0.603	4.07
41)	P	Hexachlorocycl...	0.158	0.160	0.197	0.212	0.209	0.233	0.222	0.199	14.80
42)	S	2,4,6-Tribromo...	0.274	0.270	0.282	0.280	0.261	0.263	0.249	0.268	4.37
43)	C	2,4,6-Trichlor...	0.394	0.389	0.427	0.429	0.409	0.425	0.409	0.412	3.93
44)		2,4,5-Trichlor...	0.437	0.413	0.481	0.486	0.461	0.483	0.466	0.461	5.90
45)	S	2-Fluorobiphenyl	1.543	1.450	1.471	1.286	1.124	1.098	0.953	1.275	17.51
46)		1,1'-Biphenyl	1.544	1.424	1.527	1.472	1.356	1.375	1.257	1.422	7.15
47)		2-Chloronaphth...	1.289	1.184	1.258	1.248	1.182	1.199	1.119	1.211	4.75
48)		2-Nitroaniline	0.334	0.324	0.372	0.383	0.374	0.373	0.370	0.361	6.32
49)		Acenaphthylene	1.910	1.780	1.891	1.808	1.637	1.637	1.481	1.735	9.01
50)		Dimethylphthalate	1.691	1.594	1.637	1.551	1.400	1.388	1.258	1.503	10.45
51)		2,6-Dinitrotol...	0.331	0.314	0.353	0.363	0.339	0.354	0.336	0.341	4.84
52)	C	Acenaphthene	1.167	1.106	1.166	1.134	1.061	1.082	1.005	1.103	5.34
53)		3-Nitroaniline	0.280	0.283	0.336	0.332	0.315	0.317	0.307	0.310	7.04
54)	P	2,4-Dinitrophenol		0.111	0.157	0.188	0.187	0.200	0.196	0.173	19.51
55)		Dibenzofuran	2.084	1.921	1.974	1.863	1.684	1.643	1.462	1.805	12.01
56)	P	4-Nitrophenol	0.194	0.225	0.255	0.255	0.248	0.258	0.250	0.241	9.71
57)		2,4-Dinitrotol...	0.449	0.438	0.494	0.494	0.464	0.486	0.460	0.469	4.77
58)		Fluorene	1.718	1.625	1.654	1.556	1.431	1.391	1.272	1.521	10.60
59)		2,3,4,6-Tetrac...	0.380	0.396	0.437	0.404	0.394	0.395	0.383	0.398	4.71
60)		Diethylphthalate	1.699	1.595	1.646	1.529	1.414	1.375	1.247	1.501	10.81
61)		4-Chlorophenyl...	0.871	0.816	0.829	0.798	0.756	0.760	0.716	0.792	6.60
62)		4-Nitroaniline	0.331	0.337	0.353	0.351	0.338	0.350	0.331	0.342	2.74
63)		Azobenzene	1.713	1.604	1.654	1.577	1.443	1.402	1.282	1.525	10.08
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.080	0.090	0.114	0.122	0.119	0.129	0.124	0.111	16.80
66)	c	n-Nitrosodiphe...	0.551	0.536	0.578	0.571	0.527	0.545	0.499	0.544	4.93
67)		4-Bromophenyl-...	0.203	0.204	0.213	0.224	0.212	0.223	0.208	0.212	3.97
68)		Hexachlorobenzene	0.261	0.238	0.254	0.255	0.241	0.254	0.235	0.248	4.06
69)		Atrazine	0.205	0.186	0.172	0.139	0.145	0.176	0.116	0.163	18.83
70)	C	Pentachlorophenol	0.112	0.120	0.143	0.145	0.140	0.149	0.137	0.135	10.17
71)		Phenanthrene	1.122	1.057	1.075	0.959	0.844	0.846	0.737	0.949	15.17
72)		Anthracene	1.078	1.045	1.084	0.970	0.858	0.857	0.746	0.948	13.77
73)		Carbazole	1.029	1.003	1.036	0.932	0.819	0.825	0.728	0.910	13.28
74)		Di-n-butylphth...	1.141	1.110	1.135	0.973	0.839	0.822	0.697	0.960	18.48
75)	C	Fluoranthene	1.376	1.292	1.283	1.078	0.932	0.932		1.149	16.94
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.273	0.297	0.429	0.298	0.368	0.439	0.343	0.350	18.89
78)		Pyrene	1.558	1.530	1.501	1.330	1.147	1.067	0.938	1.296	19.15
79)	S	Terphenyl-d14	1.231	1.164	1.038	0.823	0.674	0.621		0.925	27.73
80)		Butylbenzylpht...	0.499	0.472	0.525	0.525	0.497	0.486	0.455	0.494	5.25
81)		Benzo(a)anthra...	1.442	1.354	1.396	1.281	1.108	1.077	0.958	1.231	14.92
82)		3,3'-Dichlorob...	0.444	0.431	0.461	0.450	0.421	0.427	0.400	0.434	4.68
83)		Chrysene	1.374	1.318	1.326	1.227	1.065	1.026	0.918	1.179	14.92
84)		Bis(2-ethylhex...	0.802	0.747	0.794	0.785	0.710	0.697	0.638	0.739	8.17
85)	c	Di-n-octyl pht...	1.320	1.280	1.345	1.280	1.147	1.108	0.986	1.209	10.93

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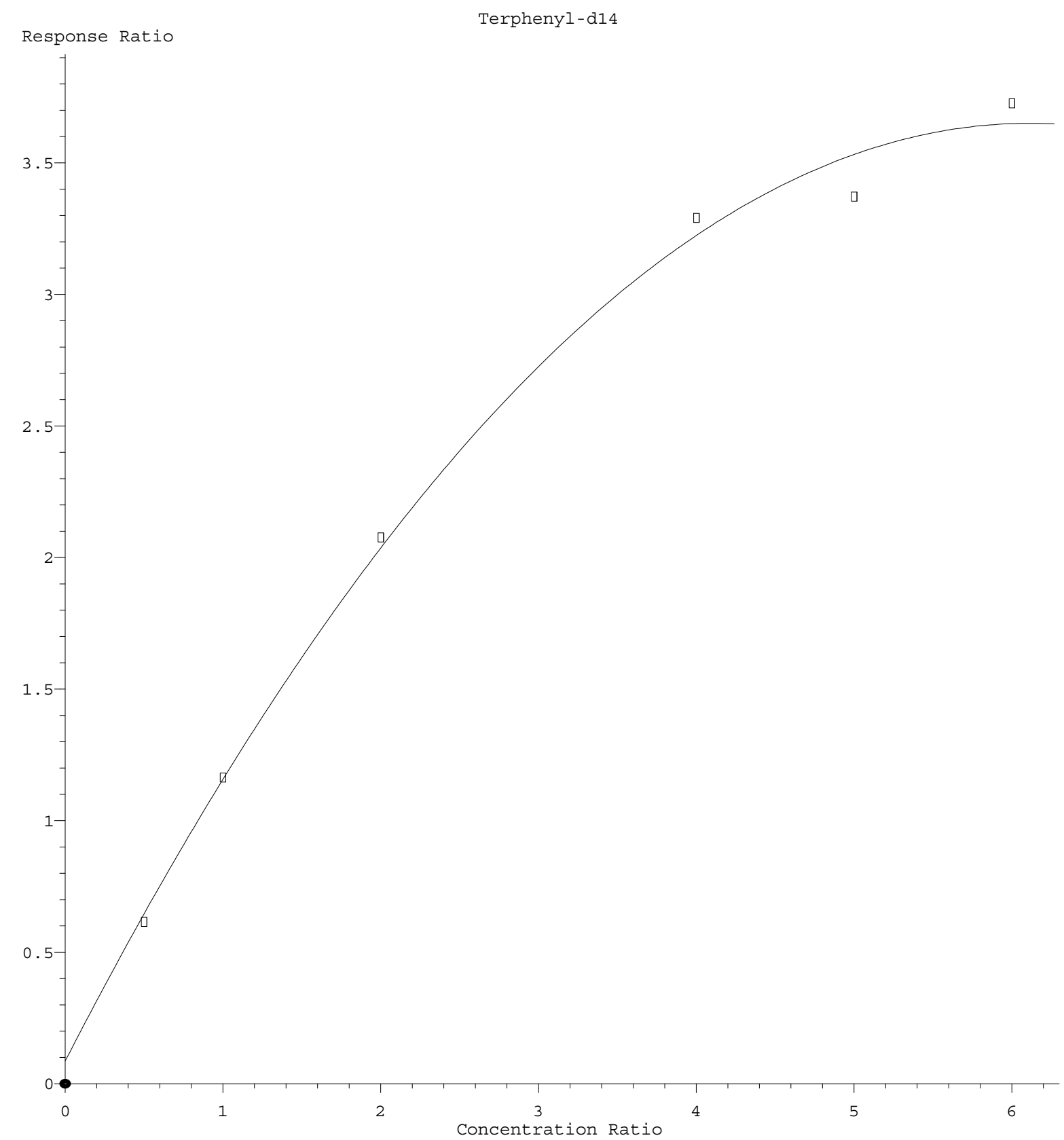
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.431	1.337	1.438	1.467	1.396	1.450	1.401	1.417	3.08
88)		Benzo(b)fluora...	1.247	1.203	1.284	1.249	1.159	1.143	1.029	1.188	7.27
89)		Benzo(k)fluora...	1.294	1.247	1.242	1.199	1.126	1.113	1.009	1.176	8.36
90)	C	Benzo(a)pyrene	1.122	1.081	1.141	1.119	1.049	1.071	0.977	1.080	5.16
91)		Dibenzo(a,h)an...	1.186	1.102	1.204	1.196	1.139	1.168	1.114	1.158	3.50
92)		Benzo(g,h,i)pe...	1.201	1.111	1.181	1.210	1.183	1.202	1.147	1.176	3.03

(#) = Out of Range



R = -9.531e-002 A*A + 1.166e+000 A + 8.672e-002
Coef of Det (r^2) = 0.995340 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG122623.M
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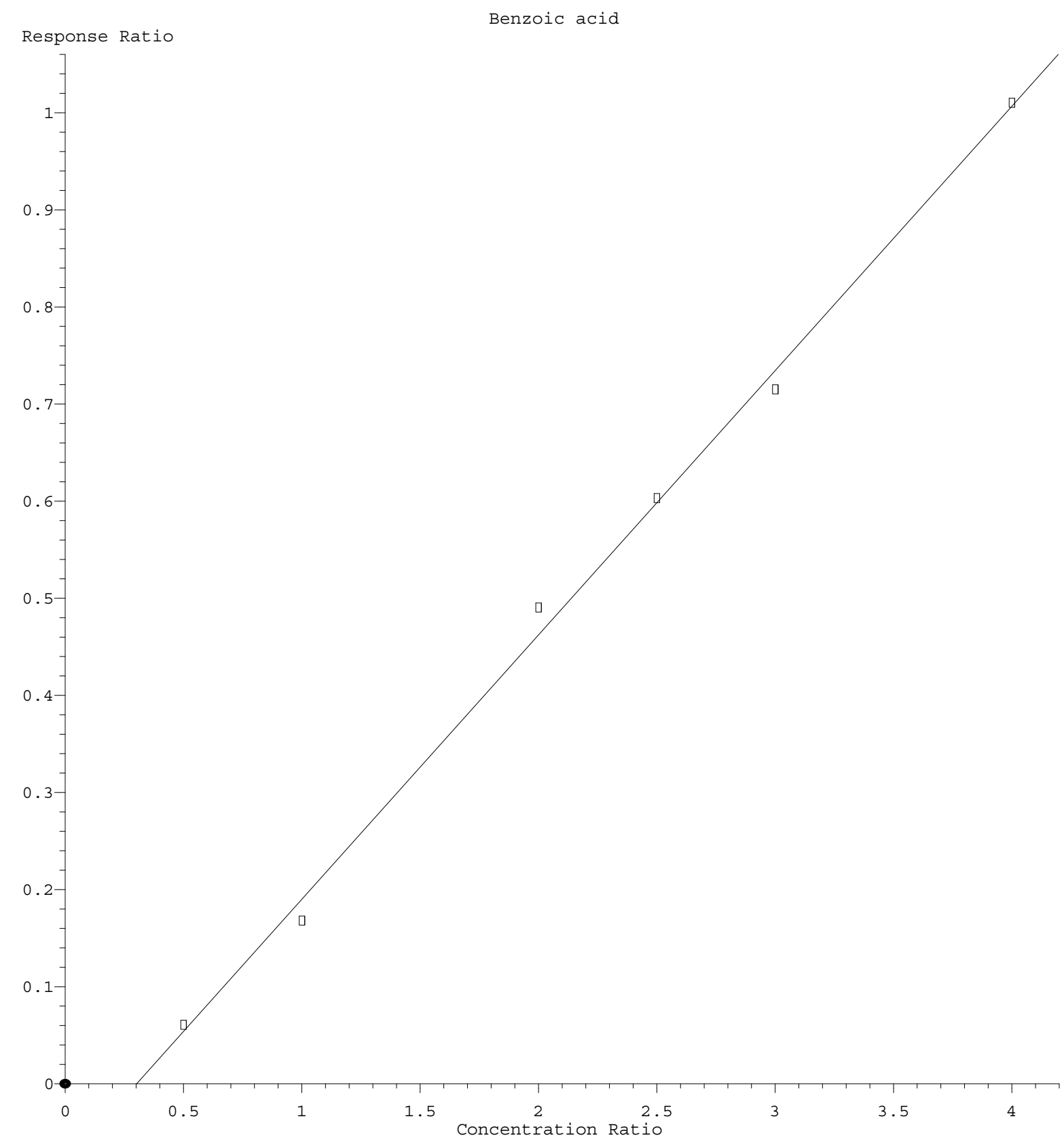

Response = 2.724e-001 * Amt - 8.222e-002
Coef of Det (r^2) = 0.997204 Curve Fit: Linear
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