Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM010225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jan 02 17:54:55 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM049313.D 5 =BM049314.D 10 =BM049315.D 20 =BM049316.D 40 =BM049317.D 50 =BM049318.D 60 =BM049319.D 80 =BM0493
20.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.589	0.550	0.557	0.518	0.517	0.524	0.501	0.537	5.64
3)		Pyridine		1.573	1.554	1.588	1.501	1.511	1.554	1.483	1.538	2.57
4)		n-Nitrosodimet...		0.682	0.672	0.680	0.626	0.636	0.637	0.615	0.650	4.26
5)	S	2-Fluorophenol		1.205	1.220	1.296	1.271	1.295	1.324	1.284	1.271	3.40
6)		Aniline		1.352	1.399	1.476	1.354	1.371	1.385	1.295	1.376	4.01
7)	S	Phenol-d6		1.514	1.579	1.732	1.686	1.731	1.782	1.726	1.679	5.73
8)		2-Chlorophenol		1.258	1.257	1.349	1.296	1.321	1.358	1.324	1.309	3.09
9)		Benzaldehyde		1.120	1.088	1.090	0.882	0.807	0.749		0.956	17.04
10)	C	Phenol		1.592	1.612	1.740	1.666	1.710	1.754	1.709	1.683	3.69
11)		bis(2-Chloroet...		1.328	1.350	1.402	1.317	1.350	1.377	1.337	1.352	2.17
12)		1,3-Dichlorobe...		1.600	1.555	1.596	1.529	1.555	1.586	1.519	1.563	2.06
13)	C	1,4-Dichlorobe...		1.604	1.582	1.613	1.543	1.576	1.611	1.542	1.582	1.90
14)		1,2-Dichlorobe...		1.540	1.506	1.573	1.500	1.529	1.559	1.490	1.528	2.04
15)		Benzyl Alcohol		0.917	0.966	1.077	1.073	1.131	1.165	1.133	1.066	8.64
16)		2,2'-oxybis(1-...		2.082	2.011	2.059	1.890	1.917	1.957	1.856	1.968	4.38
17)		2-Methylphenol		0.925	0.986	1.073	1.047	1.077	1.104	1.071	1.040	6.03
18)		Hexachloroethane		0.593	0.563	0.598	0.573	0.587	0.596	0.570	0.583	2.43
19)	P	n-Nitroso-di-n...	0.901	0.953	1.034	1.152	1.109	1.138	1.164	1.102	1.069	9.11
20)		3+4-Methylphenols		1.223	1.333	1.477	1.439	1.506	1.540	1.484	1.429	7.84
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.532	0.525	0.556	0.540	0.556	0.569	0.546	0.546	2.82
23)	S	Nitrobenzene-d5		0.392	0.397	0.430	0.424	0.437	0.446	0.432	0.423	4.81
24)		Nitrobenzene		0.415	0.418	0.448	0.430	0.436	0.449	0.429	0.432	3.12
25)		Isophorone		0.639	0.665	0.733	0.714	0.741	0.763	0.743	0.714	6.34
26)	C	2-Nitrophenol		0.122	0.136	0.163	0.173	0.180	0.190	0.189	0.165	15.91
27)		2,4-Dimethylph...		0.179	0.192	0.213	0.212	0.218	0.226	0.223	0.209	8.28
28)		bis(2-Chloroet...		0.424	0.451	0.468	0.457	0.469	0.484	0.471	0.461	4.17
29)	C	2,4-Dichloroph...		0.274	0.300	0.336	0.334	0.346	0.358	0.352	0.328	9.32
30)		1,2,4-Trichlor...		0.415	0.406	0.420	0.406	0.412	0.418	0.412	0.413	1.32
31)		Naphthalene		1.059	1.044	1.103	1.067	1.099	1.131	1.107	1.087	2.84
32)		Benzoic acid			0.146	0.208	0.212	0.232	0.242	0.255	0.216	17.82
33)		4-Chloroaniline		0.320	0.339	0.383	0.373	0.385	0.395	0.388	0.369	7.70
34)	C	Hexachlorobuta...		0.268	0.262	0.263	0.255	0.258	0.266	0.260	0.262	1.76
35)		Caprolactam			0.078	0.096	0.096	0.101	0.105	0.104	0.097	10.13
36)	C	4-Chloro-3-met...		0.264	0.286	0.325	0.327	0.336	0.348	0.347	0.319	10.03
37)		2-Methylnaphth...		0.695	0.703	0.762	0.746	0.766	0.795	0.780	0.750	5.06
38)		1-Methylnaphth...		0.694	0.700	0.756	0.739	0.760	0.785	0.767	0.743	4.66

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.667	0.647	0.669	0.666	0.683	0.710	0.705	0.678	3.32
41)	P	Hexachlorocycl...	0.189	0.198	0.216	0.219	0.225	0.231	0.224	0.215	7.11
42)	S	2,4,6-Tribromo...	0.205	0.223	0.263	0.268	0.287	0.297	0.298	0.263	13.78
43)	C	2,4,6-Trichlor...	0.343	0.375	0.423	0.429	0.445	0.462	0.461	0.420	10.72
44)		2,4,5-Trichlor...	0.397	0.427	0.489	0.478	0.495	0.514	0.507	0.472	9.27
45)	S	2-Fluorobiphenyl	1.506	1.473	1.564	1.535	1.567	1.598	1.539	1.540	2.69
46)		1,1'-Biphenyl	1.450	1.438	1.506	1.503	1.541	1.594	1.529	1.509	3.54
47)		2-Chloronaphth...	1.180	1.185	1.253	1.238	1.264	1.300	1.257	1.240	3.49
48)		2-Nitroaniline	0.242	0.262	0.328	0.343	0.357	0.371	0.365	0.324	15.92
49)		Acenaphthylene	1.585	1.598	1.721	1.706	1.762	1.814	1.781	1.710	5.17
50)		Dimethylphthalate	1.417	1.401	1.495	1.455	1.497	1.535	1.493	1.471	3.27
51)		2,6-Dinitrotol...	0.260	0.280	0.322	0.320	0.333	0.347	0.342	0.315	10.31
52)	C	Acenaphthene	1.036	1.034	1.109	1.107	1.145	1.179	1.153	1.109	5.09
53)		3-Nitroaniline	0.211	0.242	0.295	0.308	0.322	0.335	0.333	0.292	16.34
54)	P	2,4-Dinitrophenol		0.093	0.143	0.162	0.177	0.188	0.199	0.160	23.80
55)		Dibenzofuran	1.815	1.777	1.857	1.798	1.864	1.885	1.841	1.834	2.11
56)	P	4-Nitrophenol		0.180	0.247	0.260	0.273	0.288	0.286	0.256	15.75
57)		2,4-Dinitrotol...	0.302	0.354	0.434	0.444	0.464	0.480	0.475	0.422	16.06
58)		Fluorene	1.352	1.407	1.552	1.520	1.547	1.593	1.528	1.500	5.78
59)		2,3,4,6-Tetrac...	0.344	0.357	0.403	0.397	0.413	0.423	0.423	0.394	8.00
60)		Diethylphthalate	1.322	1.341	1.458	1.434	1.491	1.531	1.479	1.437	5.42
61)		4-Chlorophenyl...	0.764	0.773	0.832	0.815	0.843	0.866	0.838	0.819	4.58
62)		4-Nitroaniline	0.199	0.231	0.312	0.326	0.343	0.357	0.353	0.303	20.77
63)		Azobenzene	1.258	1.326	1.442	1.398	1.439	1.467	1.406	1.391	5.32
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.078	0.104	0.115	0.122	0.129	0.131	0.113	17.59
66)	c	n-Nitrosodiphe...	0.518	0.524	0.574	0.583	0.597	0.622	0.599	0.574	6.81
67)		4-Bromophenyl-...	0.195	0.197	0.213	0.219	0.226	0.233	0.231	0.216	7.19
68)		Hexachlorobenzene	0.249	0.242	0.254	0.257	0.265	0.278	0.273	0.260	5.00
69)		Atrazine	0.158	0.164	0.161	0.140	0.117	0.110		0.142	16.57
70)	C	Pentachlorophenol	0.115	0.131	0.157	0.170	0.178	0.187	0.186	0.160	17.41
71)		Phenanthrene	1.003	1.008	1.055	1.066	1.096	1.134	1.099	1.066	4.55
72)		Anthracene	0.888	0.928	0.999	1.027	1.060	1.107	1.073	1.012	7.84
73)		Carbazole	0.854	0.903	0.986	1.014	1.034	1.088	1.040	0.988	8.32
74)		Di-n-butylphth...	0.878	0.971	1.105	1.171	1.215	1.274	1.221	1.119	12.97
75)	C	Fluoranthene	1.132	1.180	1.270	1.305	1.361	1.424	1.388	1.294	8.35
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.339	0.252	0.224	0.337	0.243	0.313		0.285	17.87
78)		Pyrene	1.373	1.364	1.435	1.477	1.525	1.581	1.555	1.473	5.84
79)	S	Terphenyl-d14	1.064	1.087	1.205	1.267	1.299	1.324	1.235	1.212	8.33
80)		Butylbenzylpht...	0.387	0.412	0.480	0.522	0.546	0.572	0.564	0.498	14.84
81)		Benzo(a)anthra...	1.305	1.309	1.428	1.434	1.479	1.528	1.495	1.426	6.16
82)		3,3'-Dichlorob...	0.330	0.369	0.427	0.463	0.469	0.503	0.470	0.433	14.32
83)		Chrysene	1.297	1.259	1.338	1.344	1.384	1.440	1.395	1.351	4.52
84)		Bis(2-ethylhex...	0.565	0.635	0.755	0.813	0.848	0.883	0.840	0.763	15.66
85)	c	Di-n-octyl pht...		0.957	1.163	1.266	1.339	1.433	1.410	1.261	14.17

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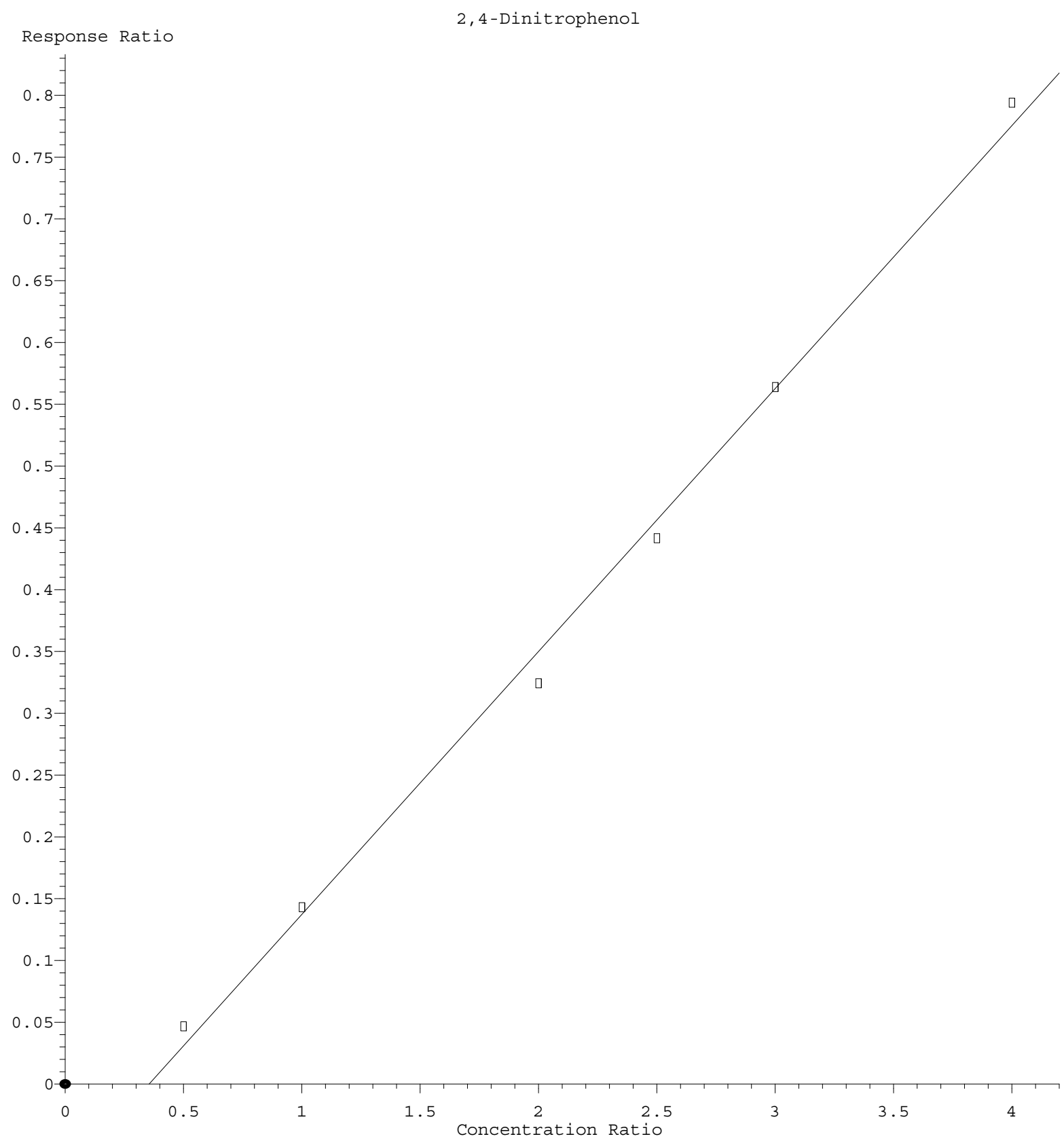
86)	I	Perylene-d12	----------ISTD----------								
87)		Indeno(1,2,3-c...	1.323	1.328	1.429	1.480	1.523	1.610	1.609	1.472	8.10
88)		Benzo(b)fluora...	1.164	1.183	1.286	1.354	1.399	1.499	1.489	1.339	10.10
89)		Benzo(k)fluora...	1.137	1.167	1.292	1.312	1.379	1.413	1.428	1.304	8.84
90)	C	Benzo(a)pyrene	0.978	1.003	1.105	1.145	1.193	1.262	1.262	1.135	10.08
91)		Dibenzo(a,h)an...	1.087	1.115	1.196	1.237	1.271	1.345	1.340	1.227	8.27
92)		Benzo(g,h,i)pe...	1.129	1.148	1.202	1.234	1.259	1.330	1.311	1.230	6.20

(#) = Out of Range



Response = 2.129e-001 * Amt - 7.567e-002
Coef of Det (r^2) = 0.996018 Curve Fit: Linear
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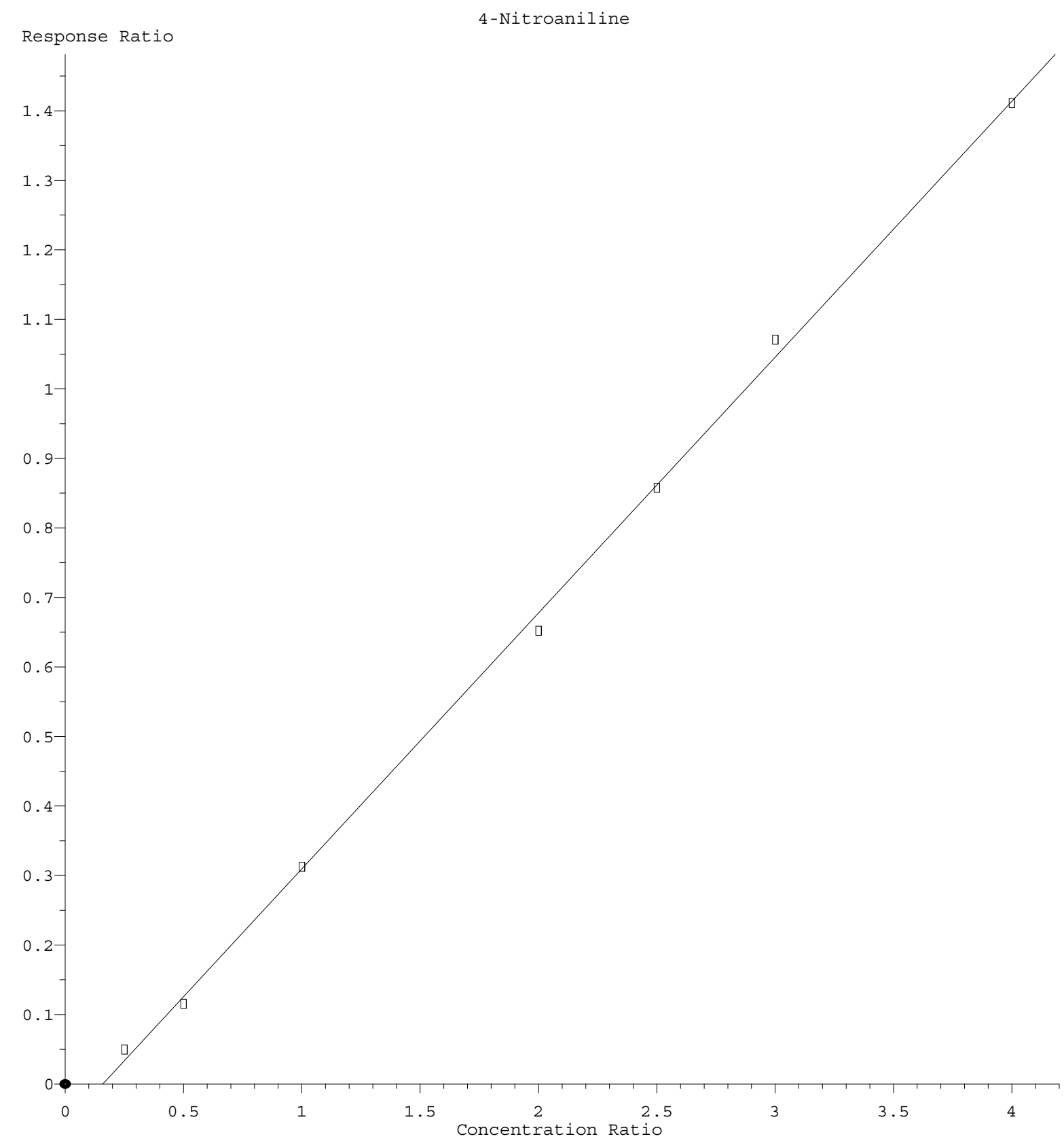

Response = 3.683e-001 * Amt - 5.865e-002
Coef of Det (r^2) = 0.998922 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM010225.M
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