Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM091424.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sun Sep 15 08:56:37 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BM047520.D 5 =BM047521.D 10 =BM047522.D 20 =BM047523.D 40 =BM047524.D 50 =BM047525.D 60 =BM047526.D 80 =BM0475
27.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.601	0.559	0.552	0.520	0.506	0.525	0.503	0.538	6.51
3)		Pyridine		1.680	1.592	1.594	1.587	1.559	1.610	1.588	1.601	2.36
4)		n-Nitrosodimet...		0.724	0.730	0.742	0.730	0.717	0.736	0.706	0.727	1.65
5)	S	2-Fluorophenol		1.216	1.208	1.228	1.244	1.245	1.331	1.321	1.256	3.96
6)		Aniline		1.542	1.529	1.565	1.586	1.563	1.605	1.588	1.568	1.71
7)	S	Phenol-d6		1.632	1.623	1.717	1.795	1.809	1.900	1.905	1.769	6.56
8)		2-Chlorophenol		1.338	1.321	1.380	1.395	1.375	1.446	1.438	1.385	3.37
9)		Benzaldehyde		0.923	0.986	0.993	0.837	0.771	0.737	0.642	0.841	15.80
10)	C	Phenol		1.676	1.679	1.747	1.781	1.786	1.870	1.860	1.771	4.37
11)		bis(2-Chloroet...		1.451	1.413	1.426	1.418	1.397	1.436	1.414	1.422	1.23
12)		1,3-Dichlorobe...		1.586	1.512	1.497	1.503	1.467	1.539	1.506	1.516	2.48
13)	C	1,4-Dichlorobe...		1.593	1.535	1.529	1.527	1.507	1.570	1.545	1.544	1.89
14)		1,2-Dichlorobe...		1.545	1.492	1.503	1.507	1.489	1.558	1.541	1.519	1.84
15)		Benzyl Alcohol		1.094	1.097	1.191	1.232	1.230	1.271	1.272	1.198	6.29
16)		2,2'-oxybis(1-...		2.103	2.031	2.065	2.009	1.949	1.957	1.888	2.000	3.71
17)		2-Methylphenol		1.041	1.073	1.128	1.161	1.154	1.186	1.177	1.132	4.85
18)		Hexachloroethane		0.639	0.606	0.627	0.615	0.603	0.622	0.605	0.617	2.16
19)	P	n-Nitroso-di-n...	1.067	1.144	1.154	1.230	1.244	1.233	1.238	1.232	1.193	5.38
20)		3+4-Methylphenols		1.441	1.493	1.591	1.613	1.602	1.652	1.660	1.579	5.19
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.521	0.509	0.519	0.527	0.524	0.548	0.532	0.526	2.30
23)	S	Nitrobenzene-d5		0.387	0.384	0.400	0.406	0.400	0.417	0.403	0.400	2.80
24)		Nitrobenzene		0.409	0.406	0.417	0.413	0.407	0.420	0.402	0.411	1.55
25)		Isophorone		0.671	0.679	0.705	0.711	0.710	0.724	0.716	0.703	2.80
26)	C	2-Nitrophenol		0.105	0.116	0.134	0.147	0.152	0.162	0.164	0.140	16.21
27)		2,4-Dimethylph...		0.208	0.202	0.211	0.210	0.213	0.222	0.220	0.212	3.19
28)		bis(2-Chloroet...		0.448	0.436	0.441	0.441	0.436	0.447	0.440	0.441	1.10
29)	C	2,4-Dichloroph...		0.236	0.243	0.266	0.275	0.280	0.292	0.295	0.269	8.49
30)		1,2,4-Trichlor...		0.313	0.296	0.300	0.302	0.305	0.324	0.320	0.309	3.44
31)		Naphthalene		1.083	1.042	1.056	1.077	1.079	1.122	1.104	1.080	2.49
32)		Benzoic acid			0.125	0.156	0.192	0.207	0.214	0.227	0.187	20.87
33)		4-Chloroaniline		0.382	0.373	0.389	0.393	0.393	0.400	0.403	0.391	2.64
34)	C	Hexachlorobuta...		0.173	0.166	0.167	0.169	0.169	0.178	0.174	0.171	2.68
35)		Caprolactam		0.073	0.079	0.090	0.093	0.093	0.094	0.099	0.089	10.57
36)	C	4-Chloro-3-met...		0.269	0.284	0.305	0.318	0.319	0.329	0.337	0.309	7.99
37)		2-Methylnaphth...		0.683	0.672	0.693	0.726	0.727	0.761	0.770	0.719	5.30
38)		1-Methylnaphth...		0.679	0.670	0.694	0.716	0.728	0.755	0.759	0.714	4.93

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.505	0.491	0.514	0.547	0.554	0.591	0.586	0.541	7.25
41)	P	Hexachlorocycl...	0.168	0.163	0.168	0.183	0.182	0.194	0.181	0.177	6.22
42)	S	2,4,6-Tribromo...	0.149	0.159	0.177	0.202	0.211	0.218	0.236	0.193	16.72
43)	C	2,4,6-Trichlor...	0.279	0.301	0.325	0.350	0.358	0.380	0.380	0.339	11.47
44)		2,4,5-Trichlor...	0.324	0.345	0.367	0.395	0.403	0.420	0.427	0.383	10.18
45)	S	2-Fluorobiphenyl	1.331	1.295	1.385	1.515	1.523	1.608	1.506	1.452	7.96
46)		1,1'-Biphenyl	1.498	1.446	1.490	1.571	1.584	1.672	1.631	1.556	5.24
47)		2-Chloronaphth...	1.157	1.137	1.169	1.218	1.234	1.291	1.252	1.208	4.64
48)		2-Nitroaniline	0.282	0.314	0.355	0.376	0.380	0.391	0.387	0.355	11.72
49)		Acenaphthylene	1.607	1.598	1.682	1.788	1.792	1.872	1.868	1.744	6.62
50)		Dimethylphthalate	1.316	1.308	1.336	1.372	1.376	1.403	1.431	1.363	3.34
51)		2,6-Dinitrotol...	0.241	0.267	0.285	0.297	0.300	0.308	0.317	0.288	9.07
52)	C	Acenaphthene	1.108	1.111	1.162	1.247	1.267	1.322	1.335	1.222	7.77
53)		3-Nitroaniline	0.263	0.284	0.316	0.336	0.339	0.344	0.356	0.320	10.72
54)	P	2,4-Dinitrophenol		0.079	0.103	0.128	0.135	0.143	0.162	0.125	23.80
55)		Dibenzofuran	1.659	1.609	1.655	1.734	1.743	1.808	1.810	1.717	4.55
56)	P	4-Nitrophenol	0.195	0.231	0.263	0.282	0.284	0.286	0.301	0.263	14.17
57)		2,4-Dinitrotol...	0.302	0.338	0.378	0.408	0.409	0.413	0.440	0.384	12.64
58)		Fluorene	1.350	1.378	1.506	1.630	1.642	1.669	1.645	1.546	8.74
59)		2,3,4,6-Tetrac...	0.259	0.271	0.284	0.306	0.313	0.322	0.335	0.299	9.36
60)		Diethylphthalate	1.358	1.374	1.435	1.482	1.473	1.485	1.548	1.451	4.60
61)		4-Chlorophenyl...	0.616	0.625	0.683	0.744	0.745	0.768	0.766	0.707	9.24
62)		4-Nitroaniline	0.276	0.315	0.377	0.420	0.417	0.408	0.419	0.376	15.46
63)		Azobenzene	1.526	1.559	1.620	1.654	1.619	1.608	1.596	1.597	2.66
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.061	0.077	0.091	0.097	0.106	0.112	0.091	20.89
66)	c	n-Nitrosodiphe...	0.558	0.546	0.590	0.632	0.633	0.677	0.646	0.612	7.92
67)		4-Bromophenyl-...	0.176	0.170	0.183	0.197	0.201	0.218	0.215	0.194	9.65
68)		Hexachlorobenzene	0.210	0.196	0.206	0.222	0.224	0.243	0.239	0.220	7.80
69)		Atrazine	0.149	0.155	0.169	0.178	0.174	0.179	0.180	0.169	7.50
70)	C	Pentachlorophenol	0.090	0.101	0.121	0.136	0.140	0.150	0.157	0.128	19.62
71)		Phenanthrene	1.037	0.999	1.054	1.134	1.131	1.197	1.163	1.102	6.60
72)		Anthracene	0.948	0.939	1.021	1.104	1.102	1.169	1.130	1.059	8.55
73)		Carbazole	0.942	0.946	1.015	1.090	1.085	1.126	1.142	1.049	7.87
74)		Di-n-butylphth...	1.064	1.097	1.238	1.340	1.349	1.352	1.351	1.256	10.09
75)	C	Fluoranthene	1.036	1.044	1.149	1.281	1.276	1.283	1.347	1.203	10.45
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.303	0.320	0.312	0.253	0.265	0.236		0.282	12.38
78)		Pyrene	1.327	1.317	1.353	1.494	1.564	1.672	1.486	1.459	9.15
79)	S	Terphenyl-d14	0.989	1.037	1.142	1.256	1.239	1.262	0.888	1.116	13.24
80)		Butylbenzylpht...	0.433	0.474	0.540	0.588	0.604	0.627	0.665	0.562	14.93
81)		Benzo(a)anthra...	1.245	1.220	1.286	1.333	1.325	1.374	1.343	1.304	4.28
82)		3,3'-Dichlorob...	0.297	0.326	0.358	0.362	0.356	0.360	0.369	0.347	7.47
83)		Chrysene	1.196	1.178	1.201	1.254	1.250	1.293	1.260	1.233	3.38
84)		Bis(2-ethylhex...	0.663	0.761	0.854	0.928	0.947	0.969	1.035	0.880	14.73
85)	c	Di-n-octyl pht...	0.873	1.043	1.243	1.301	1.309	1.392	1.550	1.244	18.01

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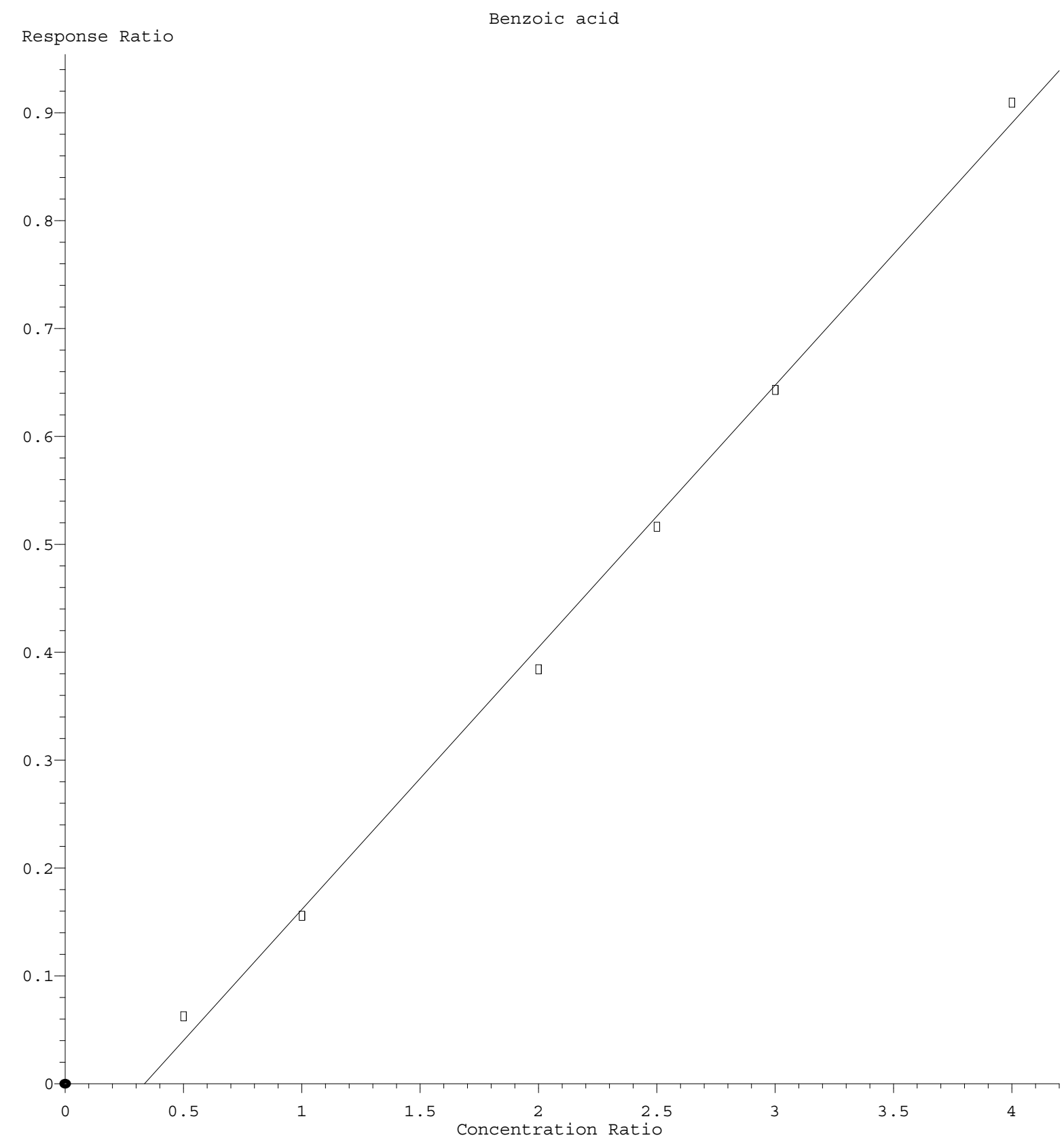
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.079	1.075	1.152	1.184	1.238	1.417	1.233	1.197	9.79
88)		Benzo(b)fluora...	1.120	1.142	1.236	1.340	1.381	1.407	1.432	1.294	9.89
89)		Benzo(k)fluora...	1.113	1.131	1.212	1.364	1.351	1.383	1.424	1.282	9.97
90)	C	Benzo(a)pyrene	0.906	0.941	1.018	1.098	1.114	1.177	1.171	1.061	10.20
91)		Dibenzo(a,h)an...	0.894	0.894	0.964	0.994	1.047	1.198	1.058	1.007	10.58
92)		Benzo(g,h,i)pe...	0.917	0.883	0.940	0.968	1.018	1.171	0.988	0.984	9.57

(#) = Out of Range



Response = 2.430e-001 * Amt - 8.140e-002
Coef of Det (r^2) = 0.997113 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM091424.M
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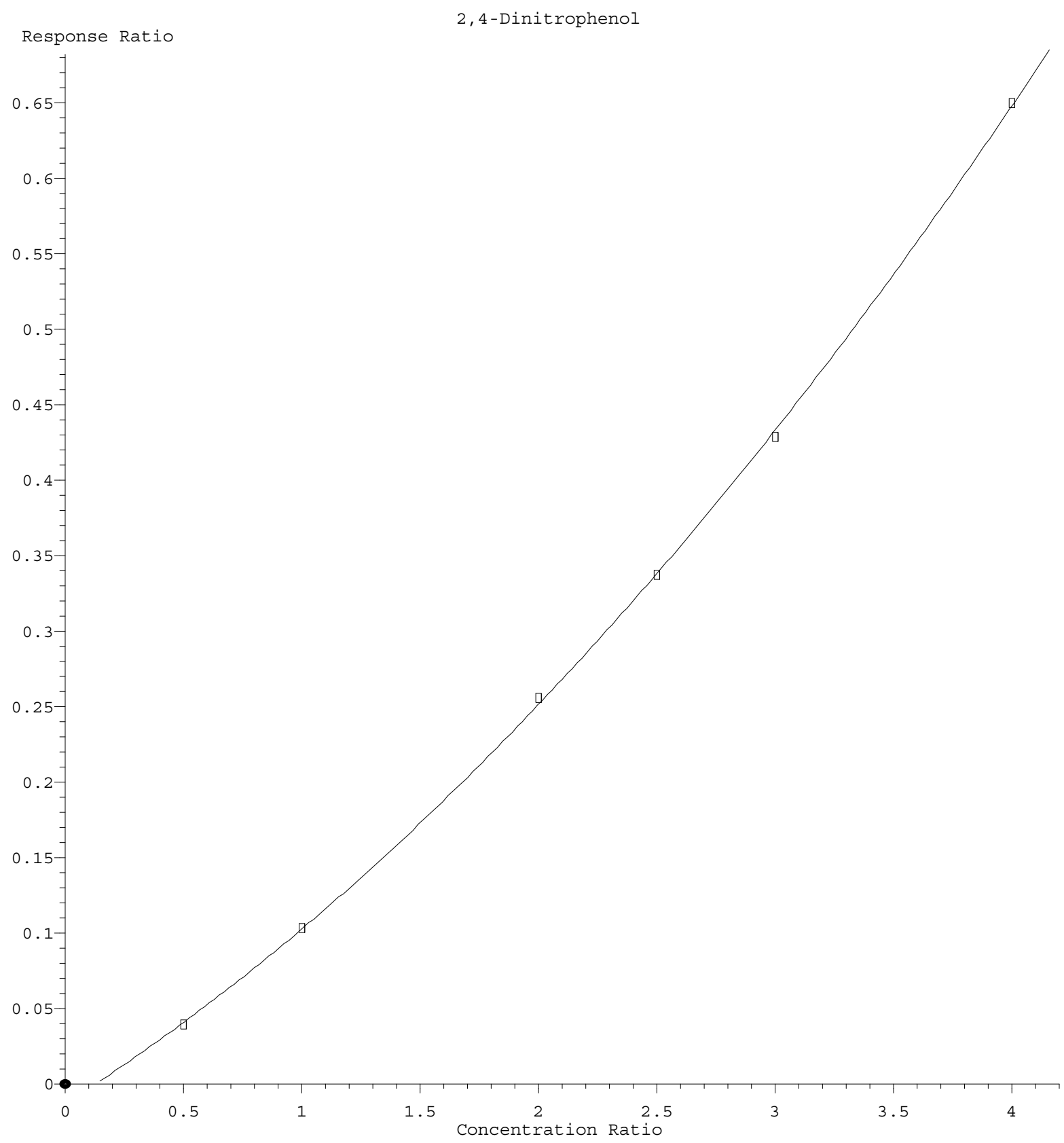

R = 1.652e-002 A*A + 9.915e-002 A - 1.295e-002
Coef of Det (r^2) = 0.999816 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM091424.M
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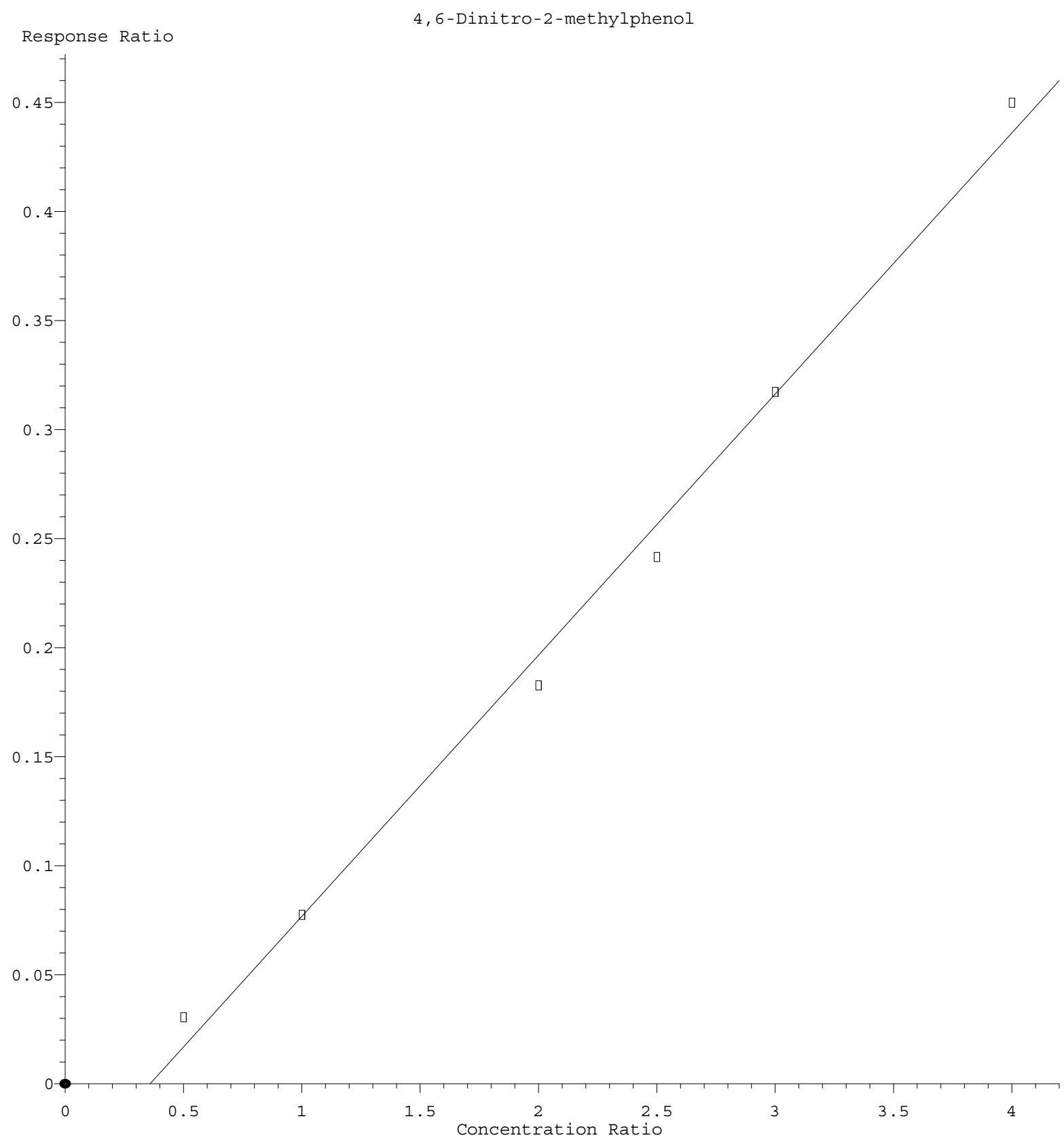

Response = 1.198e-001 * Amt - 4.295e-002
Coef of Det (r^2) = 0.993448 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM091424.M
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