

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF011723.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Jan 18 00:47:03 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BF132092.D 5 =BF132093.D 10 =BF132094.D 20 =BF132095.D 40 =BF132096.D 50 =BF132097.D 60 =BF132098.D 80 =BF132099.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.633	0.627	0.615	0.598	0.579	0.538	0.509	0.585	8.01	
3)	Pyridine	1.703	1.689	1.678	1.637	1.598	1.494	1.406	1.601	6.97	
4)	n-Nitrosodimet...	0.783	0.786	0.802	0.820	0.807	0.758	0.715	0.782	4.53	
5) S	2-Fluorophenol	1.348	1.284	1.205	1.096	1.052	0.961	0.877	1.118	15.30	
6)	Aniline	2.316	2.251	2.209	2.083	2.030	1.876	1.774	2.077	9.62	
7) S	Phenol-d6	1.739	1.636	1.566	1.426	1.341	1.245	1.141	1.442	15.02	
8)	2-Chlorophenol	1.389	1.339	1.301	1.164	1.100	1.001	0.900	1.171	15.60	
9)	Benzaldehyde	1.276	1.190	1.114	0.975	0.892	0.798		1.041	17.62	
10) C	Phenol	1.798	1.713	1.645	1.466	1.377	1.272	1.190	1.494	15.45	
11)	bis(2-Chloroet...	1.551	1.453	1.388	1.271	1.229	1.113	1.018	1.289	14.64	
12)	1,3-Dichlorobe...	1.579	1.504	1.435	1.300	1.215	1.114	1.019	1.309	15.84	
13) C	1,4-Dichlorobe...	1.590	1.472	1.410	1.287	1.203	1.107	1.006	1.296	16.03	
14)	1,2-Dichlorobe...	1.552	1.414	1.322	1.145	1.062	0.984		1.246	17.61	
15)	Benzyl Alcohol	1.177	1.181	1.222	1.206	1.158	1.079	0.994	1.145	7.07	
16)	2,2'-oxybis(1-...	2.322	2.236	2.166	1.976	1.854	1.701	1.524	1.969	14.92	
17)	2-Methylphenol	1.236	1.186	1.154	1.077	1.019	0.950	0.881	1.072	12.07	
18)	Hexachloroethane	0.489	0.503	0.495	0.480	0.466	0.433	0.398	0.466	8.13	
19) P	n-Nitroso-di-n...	0.957	1.101	1.053	0.976	0.884	0.837	0.790	0.748	0.918	13.61
20)	3+4-Methylphenols	1.547	1.535	1.477	1.331	1.225	1.111	0.975	1.314	16.85	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.602	0.538	0.499	0.437	0.416	0.388	0.358	0.463	18.87	
23) S	Nitrobenzene-d5	0.342	0.358	0.378	0.377	0.364	0.354	0.331	0.358	4.83	
24)	Nitrobenzene	0.380	0.394	0.411	0.396	0.380	0.364	0.335	0.380	6.56	
25)	Isophorone	0.835	0.791	0.780	0.757	0.741	0.727	0.703	0.762	5.79	
26) C	2-Nitrophenol	0.083	0.097	0.129	0.151	0.155	0.154	0.151	0.131	22.89	
27)	2,4-Dimethylph...	0.343	0.334	0.331	0.306	0.301	0.287	0.267	0.310	9.02	
28)	bis(2-Chloroet...	0.528	0.485	0.470	0.422	0.407	0.384	0.355	0.436	13.99	
29) C	2,4-Dichloroph...	0.302	0.304	0.316	0.296	0.287	0.271	0.253	0.290	7.38	
30)	1,2,4-Trichlor...	0.383	0.354	0.346	0.320	0.304	0.290	0.264	0.323	12.64	
31)	Naphthalene	1.234	1.134	1.063	0.949	0.891	0.849	0.770	0.984	16.87	
32)	Benzoic acid		0.114	0.157	0.201	0.225	0.230	0.237	0.194	25.07	
33)	4-Chloroaniline	0.511	0.475	0.463	0.425	0.397	0.380	0.349	0.429	13.45	
34) C	Hexachlorobuta...	0.236	0.225	0.221	0.211	0.206	0.195	0.183	0.211	8.60	
35)	Caprolactam	0.080	0.090	0.099	0.100	0.096	0.094	0.099	0.094	7.50	
36) C	4-Chloro-3-met...	0.320	0.315	0.325	0.313	0.302	0.293	0.270	0.306	6.23	
37)	2-Methylnaphth...	0.852	0.781	0.735	0.651	0.612	0.580	0.528	0.677	17.21	
38)	1-Methylnaphth...	0.802	0.737	0.692	0.611	0.569	0.544	0.497	0.636	17.46	

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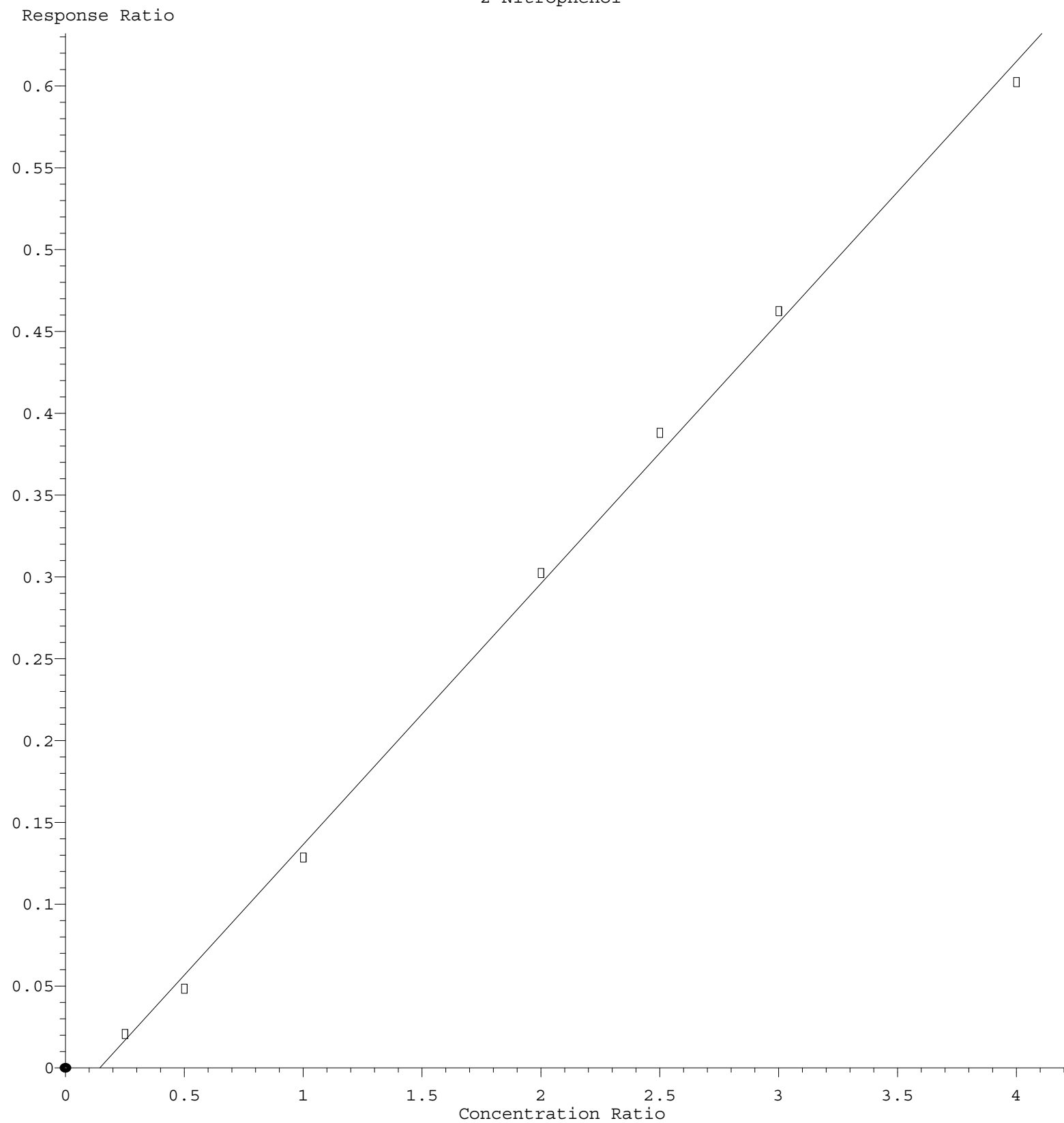
39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.755	0.717	0.680	0.621	0.593	0.557	0.508	0.633	14.04
41) P	Hexachlorocycl...	0.227	0.256	0.311	0.354	0.359	0.349	0.339	0.313	16.71
42) S	2,4,6-Tribromo...	0.191	0.207	0.216	0.206	0.200	0.202	0.195	0.202	3.99
43) C	2,4,6-Trichlor...	0.396	0.420	0.450	0.433	0.422	0.405	0.375	0.414	6.04
44)	2,4,5-Trichlor...	0.457	0.494	0.507	0.506	0.490	0.464	0.437	0.479	5.66
45) S	2-Fluorobiphenyl	1.664	1.487	1.328	1.125	1.072			1.335	18.54
46)	1,1'-Biphenyl	1.857	1.735	1.621	1.433	1.337	1.266	1.140	1.484	17.65
47)	2-Chloronaphth...	1.410	1.312	1.250	1.118	1.054	1.010	0.913	1.152	15.43
48)	2-Nitroaniline	0.231	0.285	0.358	0.394	0.389	0.392	0.365	0.345	18.19
49)	Acenaphthylene	2.271	2.149	2.045	1.835	1.718	1.636	1.478	1.876	15.41
50)	Dimethylphthalate	1.651	1.591	1.521	1.406	1.345	1.302	1.221	1.434	11.05
51)	2,6-Dinitrotol...	0.219	0.254	0.296	0.302	0.297	0.292	0.269	0.276	11.08
52) C	Acenaphthene	1.347	1.278	1.204	1.077	1.026	0.997	0.915	1.121	14.16
53)	3-Nitroaniline	0.253	0.294	0.321	0.324	0.310	0.317	0.295	0.302	8.20
54) P	2,4-Dinitrophenol		0.077	0.096	0.120	0.134	0.140	0.145	0.119	22.85
55)	Dibenzofuran	2.178	2.025	1.887	1.665	1.565	1.484	1.345	1.736	17.48
56) P	4-Nitrophenol	0.170	0.206	0.237	0.246	0.249	0.245	0.232	0.226	12.75
57)	2,4-Dinitrotol...	0.239	0.291	0.346	0.378	0.379	0.369	0.348	0.336	15.62
58)	Fluorene	1.680	1.538	1.381	1.209	1.128	1.075	0.985	1.285	19.94
59)	2,3,4,6-Tetrac...	0.368	0.383	0.410	0.391	0.380	0.363	0.340	0.376	5.98
60)	Diethylphthalate	1.632	1.603	1.543	1.419	1.345	1.305	1.184	1.433	11.65
61)	4-Chlorophenyl...	0.859	0.808	0.739	0.647	0.615	0.583	0.528	0.683	17.93
62)	4-Nitroaniline	0.249	0.274	0.293	0.295	0.292	0.294	0.274	0.281	6.05
63)	Azobenzene	1.781	1.656	1.553	1.396	1.302	1.257	1.138	1.441	16.07
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...		0.056	0.076	0.093	0.099	0.100	0.098	0.087	20.36
66) c	n-Nitrosodiphe...	0.732	0.681	0.645	0.583	0.556	0.524	0.475	0.599	15.17
67)	4-Bromophenyl-...	0.263	0.245	0.239	0.218	0.213	0.201	0.188	0.224	11.76
68)	Hexachlorobenzene	0.259	0.244	0.238	0.220	0.210	0.200	0.189	0.223	11.30
69)	Atrazine	0.208	0.211	0.212	0.200	0.190	0.183	0.167	0.196	8.66
70) C	Pentachlorophenol	0.121	0.145	0.163	0.165	0.162	0.157	0.148	0.151	10.18
71)	Phenanthrene	1.277	1.164	1.073	0.945	0.899	0.831	0.771	0.994	18.49
72)	Anthracene	1.278	1.192	1.095	0.956	0.909	0.847	0.774	1.007	18.44
73)	Carbazole	1.112	1.040	0.971	0.845	0.805	0.761	0.699	0.890	17.20
74)	Di-n-butylphth...	1.180	1.204	1.180	1.044	1.008	0.939	0.853	1.058	12.81
75) C	Fluoranthene	1.362	1.262	1.176	1.024	0.959	0.899	0.817	1.071	18.71
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.469	0.525	0.564	0.601	0.550	0.523	0.443	0.525	10.39
78)	Pyrene	1.936	1.879	1.914	1.965	1.921	1.859	1.700	1.882	4.66
79) S	Terphenyl-d14	1.348	1.247	1.180	1.185	1.157	1.139	1.049	1.186	7.85
80)	Butylbenzylphth...	0.393	0.511	0.648	0.710	0.723	0.707	0.647	0.620	19.87
81)	Benzo(a)anthra...	1.522	1.471	1.474	1.408	1.382	1.325	1.266	1.407	6.43
82)	3,3'-Dichlorob...	0.298	0.354	0.406	0.398	0.399	0.371	0.354	0.369	10.29
83)	Chrysene	1.515	1.408	1.377	1.296	1.290	1.225	1.154	1.323	9.09
84)	Bis(2-ethylhex...	0.625	0.787	0.930	0.941	0.943	0.898	0.827	0.850	13.65
85) c	Di-n-octyl pht...		0.895	1.142	1.257	1.331	1.266	1.294	1.197	13.46

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86) I	Perylene-d12	-----ISTD-----	
87)	Indeno(1,2,3-c...	0.829 0.923 1.133 1.300 1.310 1.276 1.186 1.137	16.80
88)	Benzo(b)fluora...	1.416 1.323 1.317 1.325 1.203 1.164 1.127 1.268	8.23
89)	Benzo(k)fluora...	1.428 1.418 1.445 1.242 1.227 1.175 1.030 1.281	12.18
90) C	Benzo(a)pyrene	1.134 1.142 1.202 1.196 1.170 1.124 1.064 1.147	4.13
91)	Dibenzo(a,h)an...	0.666 0.760 0.919 1.037 1.047 1.026 0.932 0.912	16.19
92)	Benzo(g,h,i)pe...	0.686 0.772 0.925 1.087 1.092 1.079 0.978 0.946	17.17

(#) = Out of Range

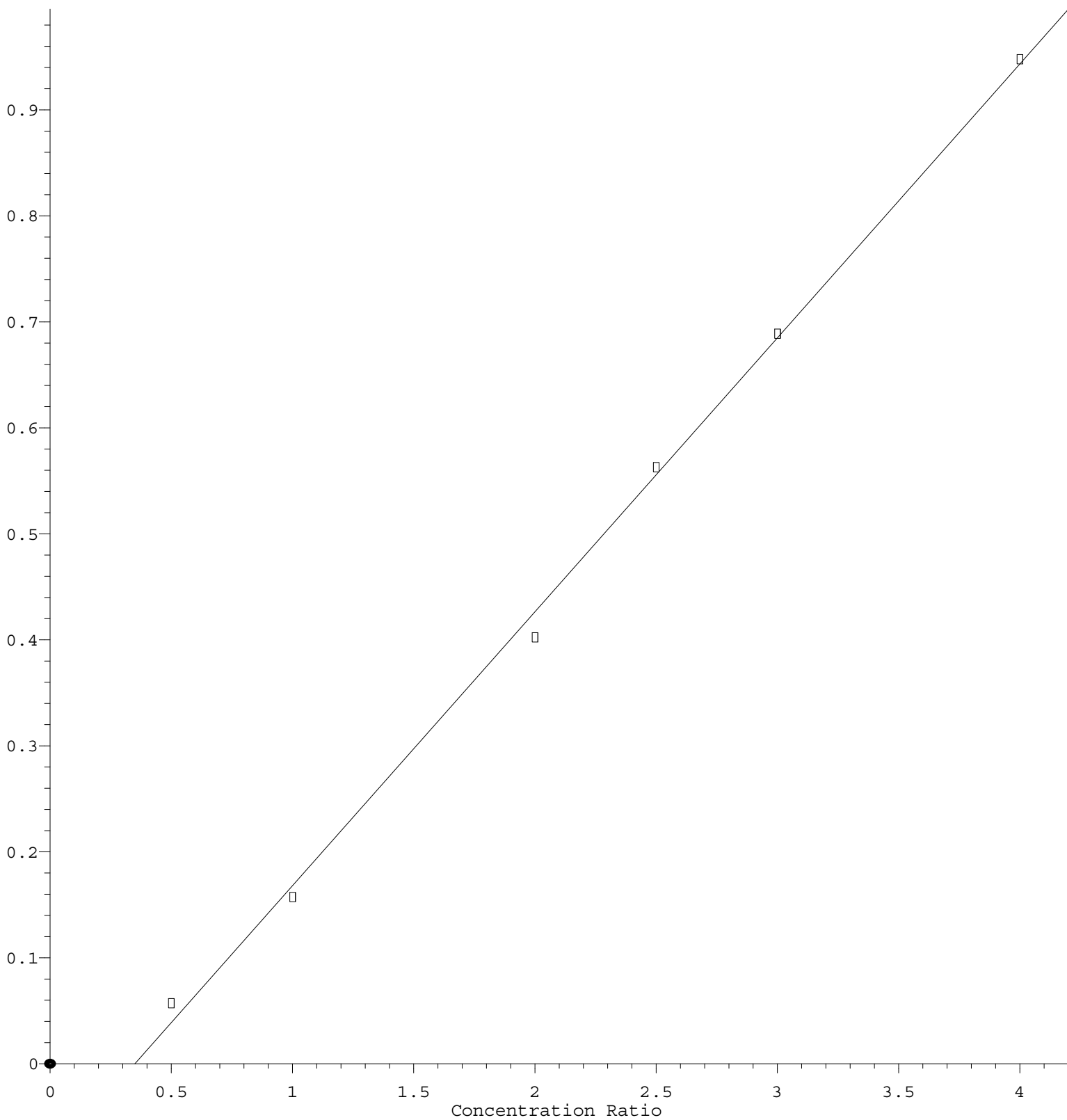
2-Nitrophenol



$\text{Response} = 1.596\text{e-}001 * \text{Amt} - 2.322\text{e-}002$
 Coef of Det (r^2) = 0.998136 Curve Fit: Linear
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 Calibration Table Last Updated: Wed Jan 18 00:47:03 2023

Benzoic acid

Response Ratio



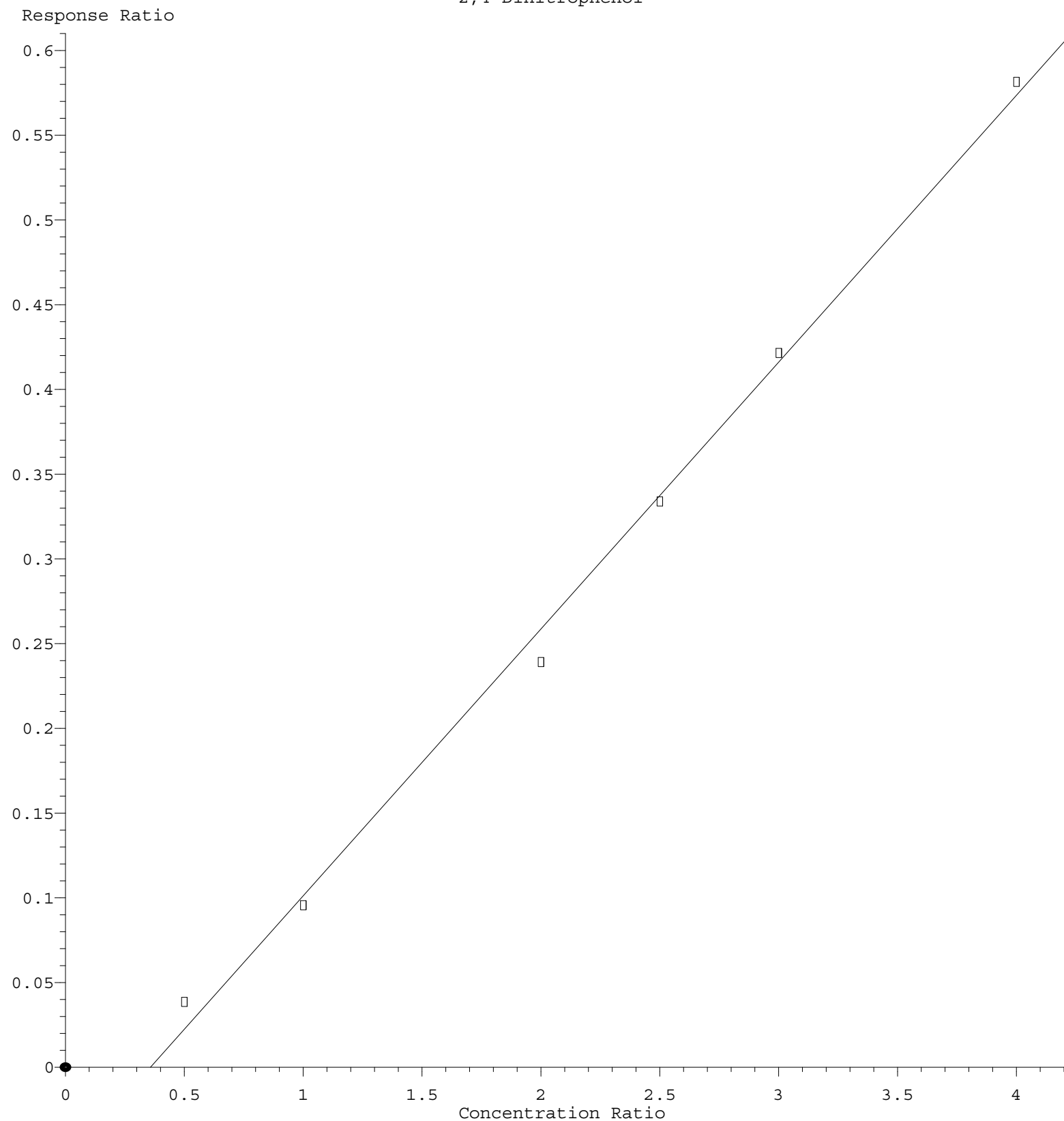
$$\text{Response} = 2.584\text{e-}001 * \text{Amt} - 9.051\text{e-}002$$

Coef of Det (r^2) = 0.997992 Curve Fit: Linear

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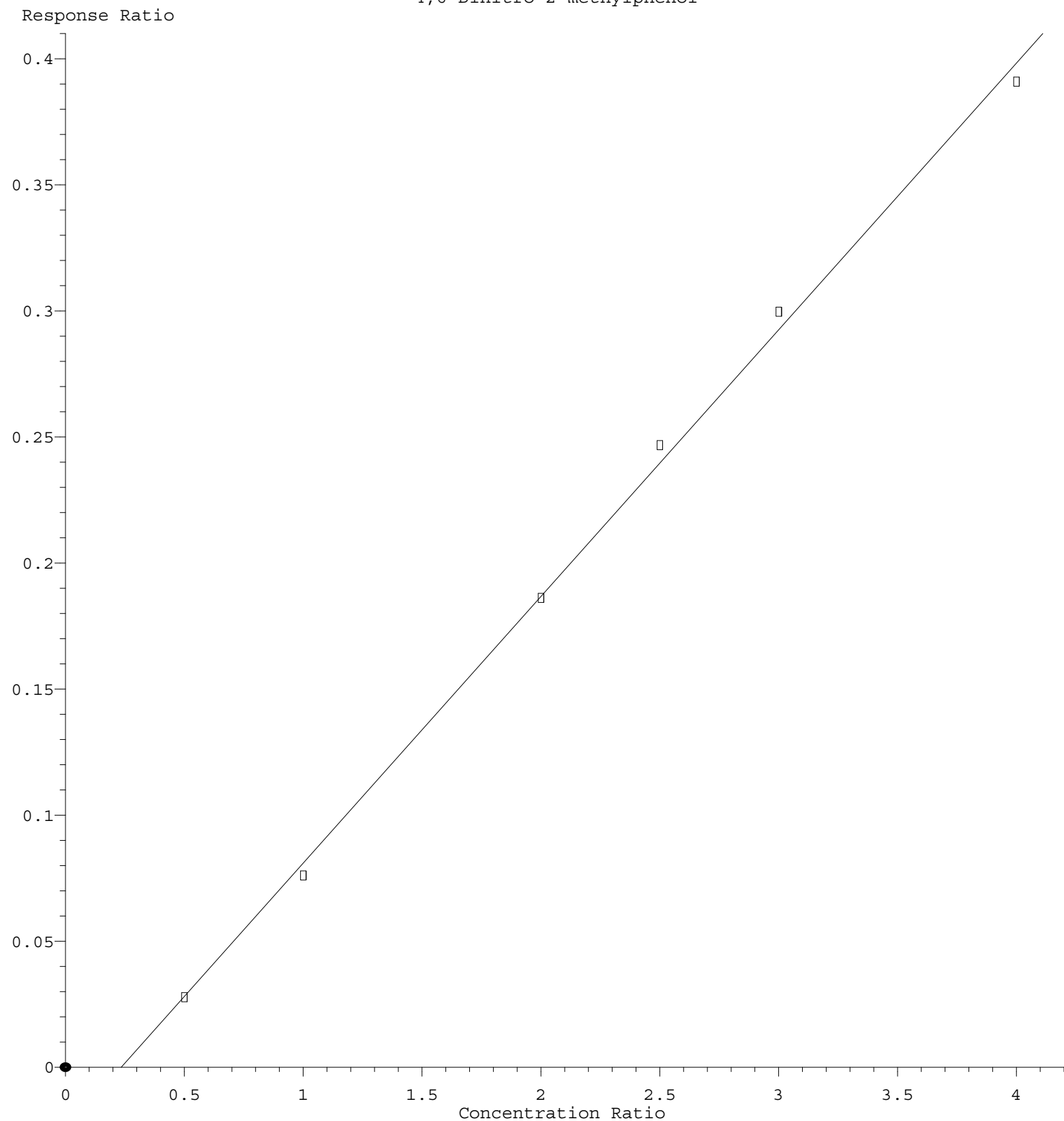
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2,4-Dinitrophenol



Response = 1.575e-001 * Amt - 5.633e-002
 Coef of Det (r^2) = 0.996272 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011723.M
 Calibration Table Last Updated: Wed Jan 18 00:47:03 2023

4,6-Dinitro-2-methylphenol



Response = $1.059e-001 * \text{Amt} - 2.492e-002$
 Coef of Det (r^2) = 0.998075 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011723.M
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