

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM051324.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue May 14 02:40:40 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BM045716.D 5 =BM045717.D 10 =BM045718.D 20 =BM045719.D 40 =BM045720.D 50 =BM045721.D 60 =BM045722.D 80 =BM045723.D

Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) 1,4-Dioxane	0.345	0.315	0.297	0.298	0.308	0.330	0.331	0.318	0.318	5.79
3) Pyridine	1.450	1.397	1.327	1.172	1.204	1.195	1.039	1.255	1.255	11.41
4) n-Nitrosodimet...	0.730	0.636	0.650	0.637	0.647	0.665	0.661	0.661	0.661	4.91
5) S 2-Fluorophenol	1.263	1.127	1.128	1.116	1.142	1.186	1.196	1.165	1.165	4.54
6) Aniline	1.336	1.167	1.197	1.124	1.130	1.147	1.102	1.172	1.172	6.72
7) S Phenol-d6	1.386	1.281	1.339	1.376	1.443	1.555	1.569	1.421	1.421	7.60
8) 2-Chlorophenol	1.108	0.983	1.011	1.038	1.089	1.139	1.163	1.076	1.076	6.22
9) Benzaldehyde		1.150	1.156	0.983	0.916	0.882		1.017	1.017	12.68
10) C Phenol	1.376	1.222	1.275	1.260	1.301	1.387	1.453	1.325	1.325	6.22
11) bis(2-Chloroet...	1.351	1.178	1.156	1.079	1.137	1.180	1.175	1.180	1.180	7.09
12) 1,3-Dichlorobe...	1.540	1.394	1.471	1.429	1.439	1.466	1.468	1.458	1.458	3.12
13) C 1,4-Dichlorobe...	1.546	1.421	1.509	1.479	1.491	1.527	1.529	1.500	1.500	2.80
14) 1,2-Dichlorobe...	1.412	1.282	1.347	1.288	1.307	1.360	1.376	1.339	1.339	3.61
15) Benzyl Alcohol	1.217	1.222	1.280	1.342	1.325	1.384	1.408	1.311	1.311	5.71
16) 2,2'-oxybis(1-...	1.293	1.165	1.159	1.086	1.119	1.182	1.139	1.163	1.163	5.62
17) 2-Methylphenol	0.915	0.868	0.912	0.919	0.978	1.016	1.018	0.947	0.947	6.10
18) Hexachloroethane	0.629	0.589	0.645	0.647	0.657	0.674	0.678	0.646	0.646	4.66
19) P n-Nitroso-di-n...	0.918	0.977	0.939	1.044	1.094	1.134	1.188	1.248	1.068	11.19
20) 3+4-Methylphenols	1.237	1.176	1.242	1.327	1.380	1.458	1.543	1.338	1.338	9.84
21) I Naphthalene-d8	-----ISTD-----									
22) Acetophenone	0.493	0.425	0.416	0.409	0.441	0.465	0.506	0.451	0.451	8.49
23) S Nitrobenzene-d5	0.475	0.426	0.437	0.405	0.419	0.440	0.446	0.435	0.435	5.11
24) Nitrobenzene	0.495	0.428	0.429	0.386	0.397	0.407	0.407	0.421	0.421	8.52
25) Isophorone	0.659	0.598	0.626	0.577	0.618	0.656	0.674	0.630	0.630	5.60
26) C 2-Nitrophenol	0.140	0.128	0.134	0.134	0.146	0.157	0.164	0.143	0.143	9.13
27) 2,4-Dimethylph...	0.188	0.169	0.170	0.163	0.181	0.191	0.196	0.180	0.180	6.94
28) bis(2-Chloroet...	0.386	0.335	0.344	0.338	0.362	0.387	0.397	0.364	0.364	7.10
29) C 2,4-Dichloroph...	0.255	0.232	0.257	0.254	0.267	0.287	0.299	0.265	0.265	8.54
30) 1,2,4-Trichlor...	0.329	0.303	0.318	0.306	0.312	0.329	0.344	0.320	0.320	4.57
31) Naphthalene	0.981	0.941	0.994	0.955	0.975	1.019	1.062	0.990	0.990	4.14
32) Benzoic acid		0.141	0.159	0.165	0.183	0.200	0.210	0.177	0.177	14.77
33) 4-Chloroaniline	0.346	0.329	0.360	0.351	0.354	0.370	0.376	0.355	0.355	4.42
34) C Hexachlorobuta...	0.207	0.192	0.198	0.195	0.200	0.212	0.223	0.204	0.204	5.31
35) Caprolactam		0.068	0.078	0.083	0.090	0.097	0.101	0.086	0.086	14.23
36) C 4-Chloro-3-met...	0.276	0.273	0.318	0.333	0.341	0.361	0.372	0.325	0.325	11.94
37) 2-Methylnaphth...	0.680	0.658	0.725	0.707	0.717	0.769	0.810	0.724	0.724	7.14
38) 1-Methylnaphth...	0.668	0.639	0.715	0.696	0.713	0.753	0.805	0.713	0.713	7.65

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM051324.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.568	0.509	0.521	0.504	0.505	0.529	0.580	0.531	5.83	
41) P	Hexachlorocycl...	0.247	0.220	0.232	0.223	0.223	0.234	0.251	0.233	5.26	
42) S	2,4,6-Tribromo...	0.220	0.237	0.260	0.274	0.284	0.308	0.328	0.273	13.97	
43) C	2,4,6-Trichlor...	0.331	0.316	0.349	0.342	0.352	0.361	0.388	0.348	6.55	
44)	2,4,5-Trichlor...	0.381	0.368	0.390	0.383	0.389	0.399	0.427	0.391	4.71	
45) S	2-Fluorobiphenyl	1.456	1.336	1.387	1.389	1.420	1.511	1.659	1.451	7.41	
46)	1,1'-Biphenyl	1.531	1.413	1.433	1.365	1.374	1.425	1.515	1.437	4.47	
47)	2-Chloronaphth...	1.192	1.068	1.115	1.055	1.082	1.114	1.155	1.111	4.40	
48)	2-Nitroaniline	0.348	0.341	0.380	0.366	0.368	0.371	0.379	0.365	4.10	
49)	Acenaphthylene	1.676	1.627	1.711	1.684	1.722	1.801	1.871	1.727	4.79	
50)	Dimethylphthalate	1.523	1.423	1.458	1.394	1.410	1.468	1.528	1.458	3.61	
51)	2,6-Dinitrotol...	0.308	0.301	0.315	0.309	0.314	0.323	0.336	0.315	3.68	
52) C	Acenaphthene	1.038	0.978	1.060	1.059	1.076	1.118	1.170	1.071	5.64	
53)	3-Nitroaniline	0.276	0.294	0.308	0.308	0.317	0.328	0.338	0.310	6.64	
54) P	2,4-Dinitrophenol		0.126	0.159	0.174	0.181	0.194	0.203	0.173	15.95	
55)	Dibenzofuran	1.653	1.661	1.735	1.746	1.789	1.885	1.970	1.777	6.52	
56) P	4-Nitrophenol	0.204	0.239	0.273	0.275	0.283	0.292	0.300	0.267	12.60	
57)	2,4-Dinitrotol...	0.379	0.431	0.463	0.479	0.499	0.533	0.560	0.478	12.84	
58)	Fluorene	1.454	1.441	1.539	1.576	1.616	1.725	1.828	1.597	8.81	
59)	2,3,4,6-Tetrac...	0.320	0.333	0.364	0.357	0.369	0.378	0.391	0.359	6.90	
60)	Diethylphthalate	1.571	1.612	1.671	1.618	1.663	1.725	1.741	1.657	3.71	
61)	4-Chlorophenyl...	0.688	0.705	0.754	0.763	0.784	0.837	0.891	0.774	9.22	
62)	4-Nitroaniline	0.281	0.303	0.344	0.345	0.353	0.369	0.368	0.338	9.83	
63)	Azobenzene	1.627	1.653	1.681	1.602	1.606	1.613	1.598	1.626	1.88	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.080	0.100	0.110	0.115	0.126		0.106	16.34	
66) c	n-Nitrosodiphe...	0.467	0.444	0.503	0.518	0.530	0.567	0.603	0.519	10.57	
67)	4-Bromophenyl-...	0.189	0.181	0.189	0.192	0.196	0.212	0.227	0.198	8.11	
68)	Hexachlorobenzene	0.233	0.219	0.229	0.231	0.235	0.251	0.269	0.238	7.00	
69)	Atrazine	0.163	0.162	0.173	0.167	0.159	0.162	0.160	0.164	2.99	
70) C	Pentachlorophenol	0.125	0.126	0.145	0.155	0.159	0.169	0.178	0.151	13.44	
71)	Phenanthrene	0.909	0.913	0.996	0.998	1.018	1.084	1.140	1.008	8.33	
72)	Anthracene	0.863	0.856	0.952	0.974	0.994	1.058	1.104	0.971	9.49	
73)	Carbazole	0.802	0.840	0.943	0.946	0.969	1.029	1.067	0.942	10.07	
74)	Di-n-butylphth...	1.026	1.085	1.202	1.231	1.251	1.348	1.431	1.225	11.45	
75) C	Fluoranthene	1.089	1.113	1.199	1.221	1.258	1.322	1.389	1.227	8.75	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.329	0.354	0.263	0.473	0.579	0.538	0.517	0.436	27.57	
78)	Pyrene	1.588	2.001	2.208	2.065	1.998	2.145	2.278	2.040	11.03	
79) S	Terphenyl-d14		1.723	2.028	2.027	2.038	2.240	2.240	2.049	9.27	
80)	Butylbenzylpht...	0.564	0.748	0.946	0.883	0.868	0.905	0.946	0.837	16.48	
81)	Benzo(a)anthra...	1.276	1.203	1.347	1.364	1.376	1.448	1.568	1.369	8.57	
82)	3,3'-Dichlorob...	0.452	0.429	0.502	0.568	0.600		0.510		14.35	
83)	Chrysene	1.167	1.080	1.201	1.235	1.253	1.369	1.481	1.255	10.57	
84)	Bis(2-ethylhex...	0.794	0.777	1.004	1.128	1.205		0.982		19.65	
85) c	Di-n-octyl pht...	1.352	1.262	1.322	1.282	1.316	1.498	1.623	1.380	9.58	

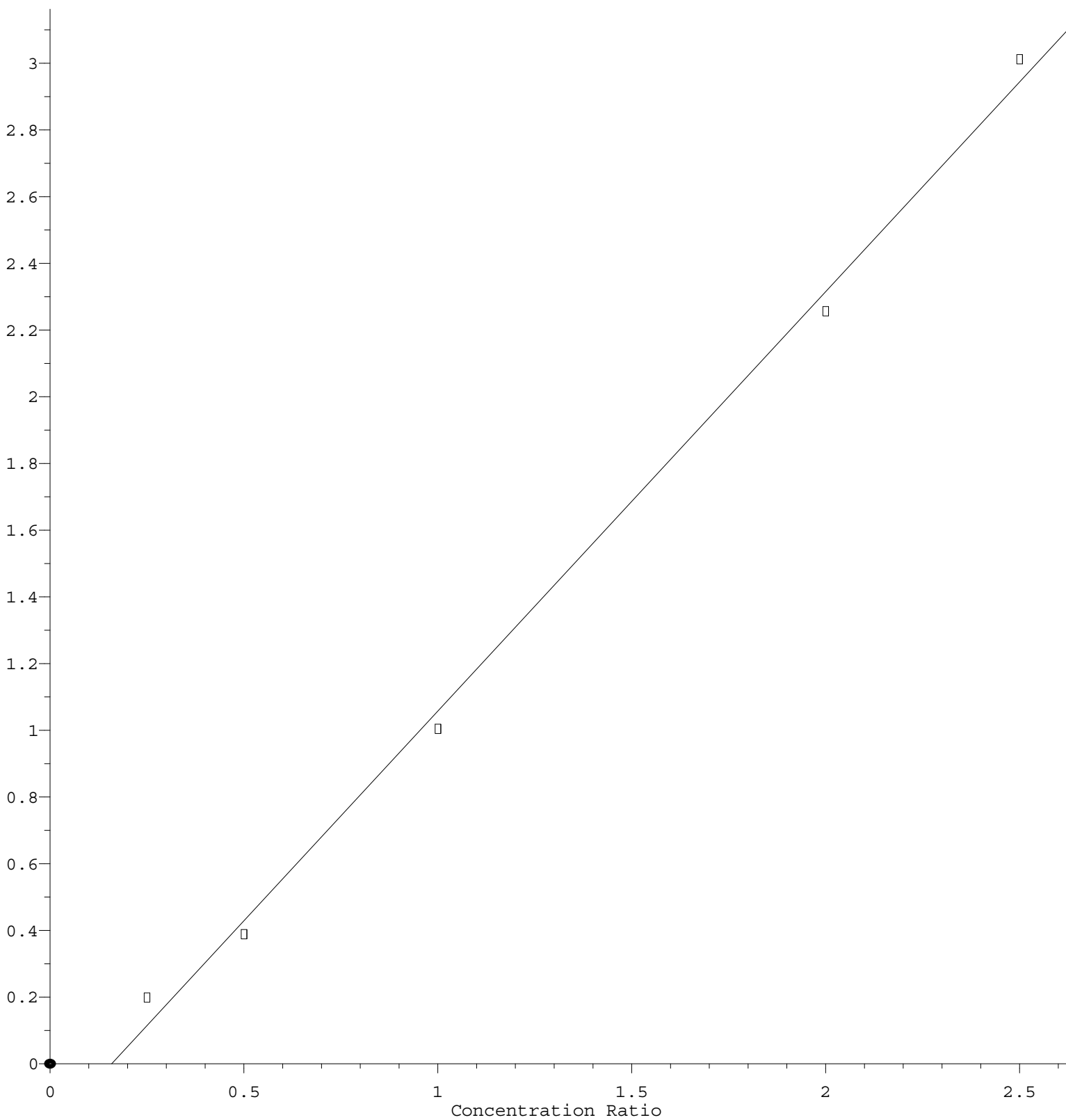
Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM051324.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.233	1.186	1.260	1.306	1.367	1.299	1.159	1.259	5.76
88)	Benzo(b)fluora...	1.109	1.116	1.209	1.287	1.475	1.560		1.293	14.54
89)	Benzo(k)fluora...	1.019	1.043	1.148	1.184	1.286	1.426		1.184	12.92
90) C	Benzo(a)pyrene	0.970	0.956	1.036	1.063	1.198	1.273	1.354	1.121	13.82
91)	Dibenzo(a,h)an...	1.032	0.991	1.049	1.092	1.128	1.096	1.034	1.060	4.43
92)	Benzo(g,h,i)pe...	1.075	1.017	1.101	1.108	1.135	1.138	1.060	1.091	3.96

(#) = Out of Range

Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 1.258\text{e}+000 * \text{Amt} - 2.002\text{e}-001$$

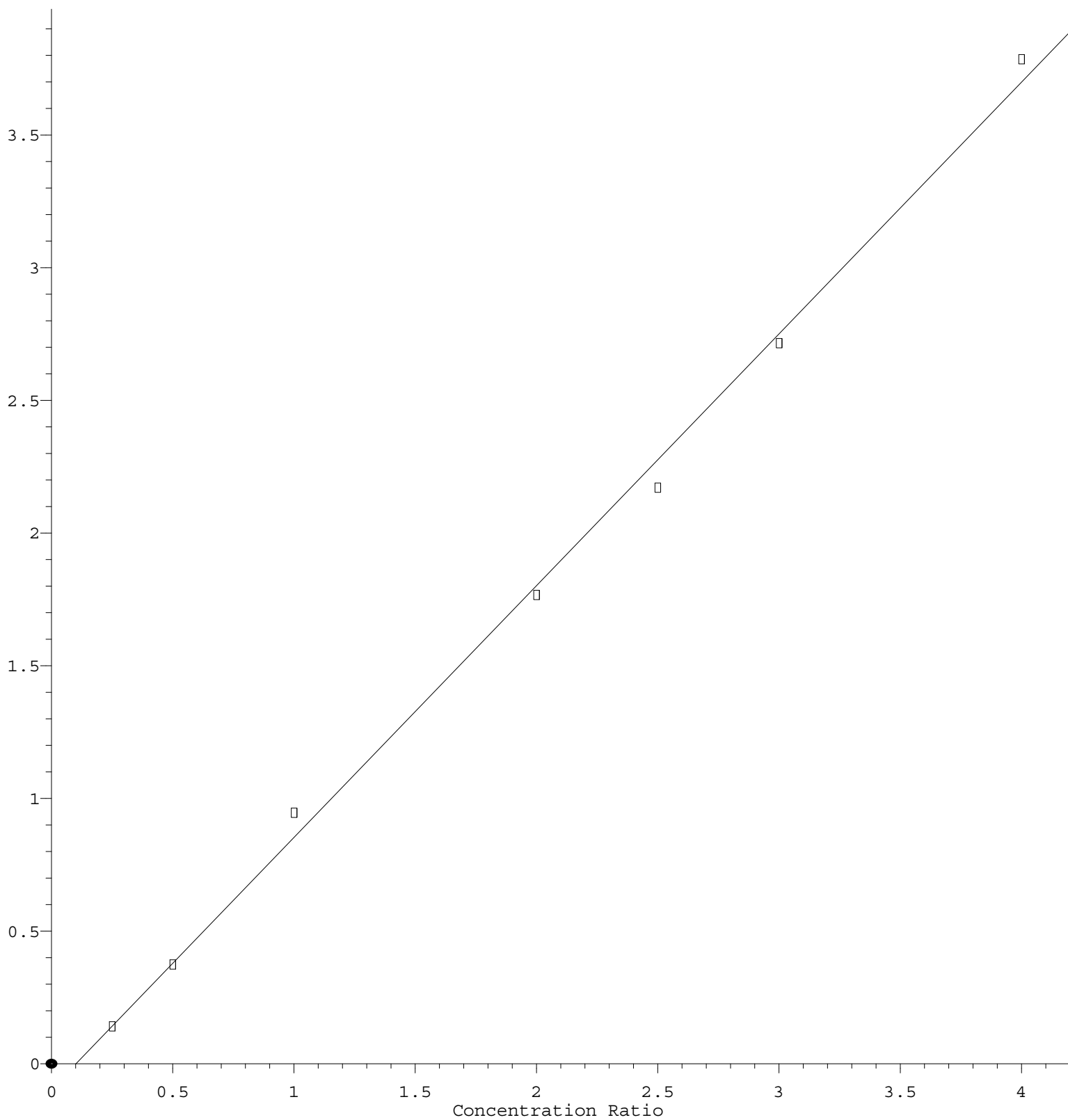
Coef of Det (r^2) = 0.996701 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051324.M

Calibration Table Last Updated: Tue May 14 02:40:40 2024

Butylbenzylphthalate

Response Ratio



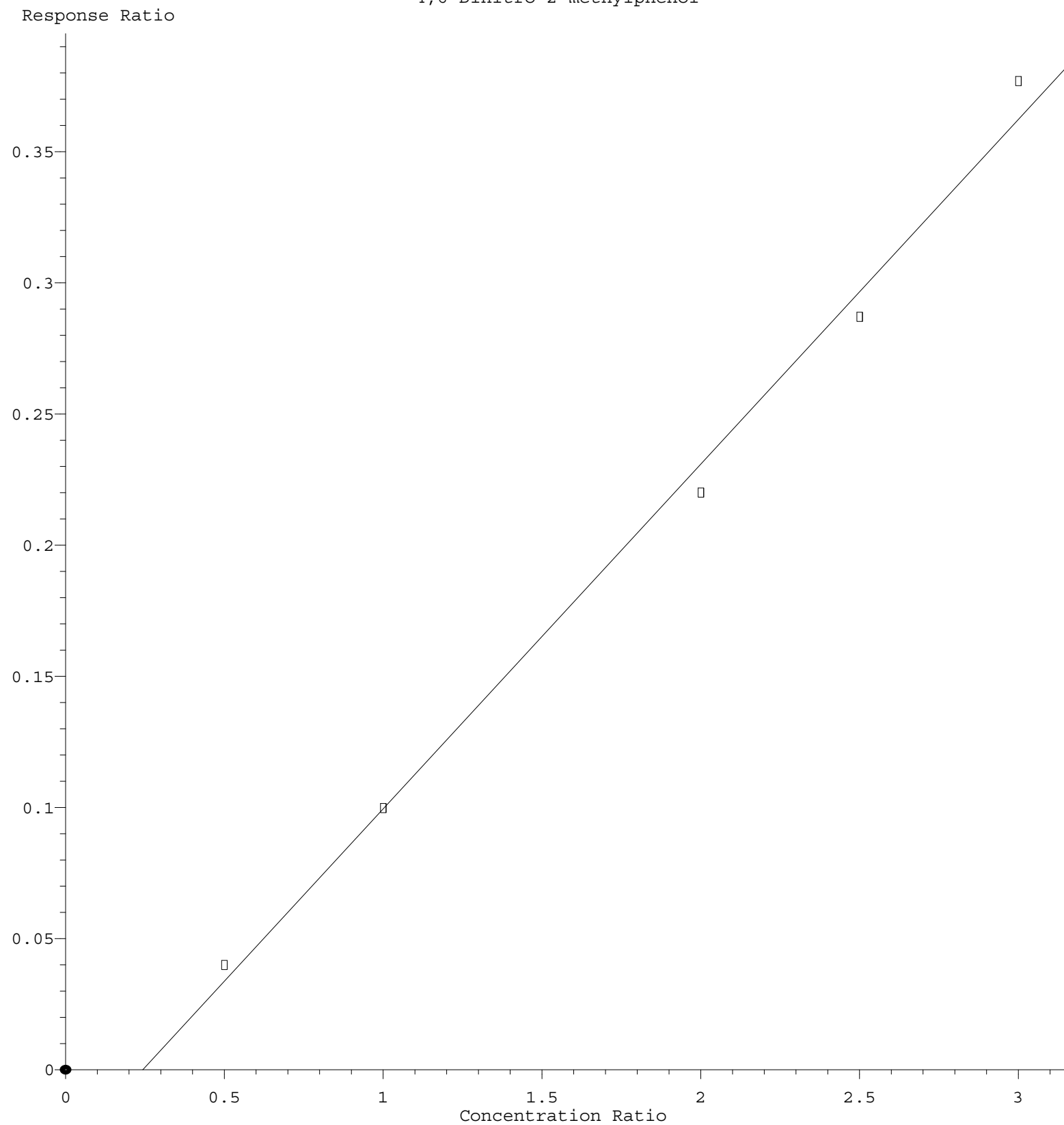
$$\text{Response} = 9.487\text{e-}001 * \text{Amt} - 9.590\text{e-}002$$

Coef of Det (r^2) = 0.997150 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051324.M

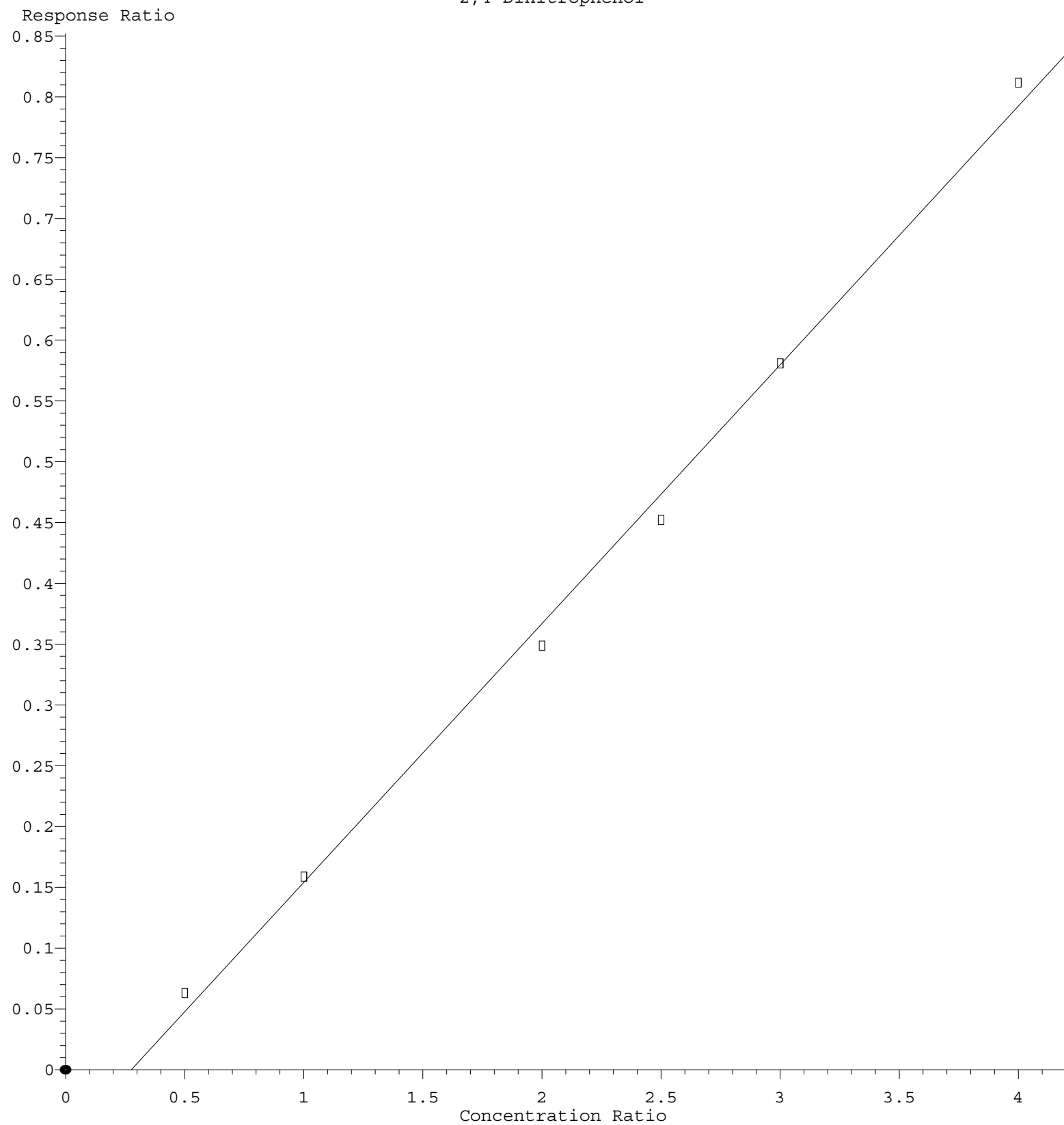
Calibration Table Last Updated: Tue May 14 02:40:40 2024

4,6-Dinitro-2-methylphenol



Response = $1.315 \times 10^{-1} \times \text{Amt} - 3.198 \times 10^{-2}$
Coef of Det (r^2) = 0.993850 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051324.M
Calibration Table Last Updated: Tue May 14 02:40:40 2024

2,4-Dinitrophenol



Response = $2.129 \times 10^{-1} \times \text{Amt} - 5.881 \times 10^{-2}$
Coef of Det (r^2) = 0.996302 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM051324.M
Calibration Table Last Updated: Tue May 14 02:40:40 2024