

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP092122.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Sep 22 02:45:14 2022
 Response Via : Initial Calibration

Calibration Files

5 =BP011769.D 10 =BP011770.D 20 =BP011771.D 40 =BP011772.D 50 =BP011773.D 60 =BP011774.D 80 =BP011775.D

	Compound	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.534	0.508	0.512	0.482	0.452	0.445	0.422	0.479	8.60
3)	Pyridine	1.298	1.406	1.566	1.589	1.481	1.526	1.487	1.479	6.75
4)	n-Nitrosodimet...	0.674	0.659	0.698	0.681	0.628	0.636	0.602	0.654	5.14
5) S	2-Fluorophenol	1.096	1.115	1.190	1.165	1.138	1.154	1.121	1.140	2.82
6)	Aniline	1.953	1.954	2.159	2.196	2.124	2.168	2.122	2.097	4.82
7) S	Phenol-d6	1.525	1.599	1.771	1.758	1.708	1.750	1.686	1.685	5.44
8)	2-Chlorophenol	1.302	1.329	1.458	1.435	1.386	1.419	1.380	1.387	4.05
9)	Benzaldehyde		1.219	1.247	1.057	0.991	0.968	0.845	1.054	14.66
10) C	Phenol	1.731	1.818	2.000	1.970	1.916	1.959	1.897	1.898	5.00
11)	bis(2-Chloroet...	1.536	1.501	1.565	1.523	1.472	1.488	1.435	1.503	2.87
12)	1,3-Dichlorobe...	1.502	1.466	1.528	1.476	1.415	1.433	1.381	1.457	3.50
13) C	1,4-Dichlorobe...	1.546	1.493	1.562	1.513	1.451	1.464	1.424	1.493	3.39
14)	1,2-Dichlorobe...	1.504	1.458	1.535	1.484	1.421	1.436	1.388	1.461	3.47
15)	Benzyl Alcohol	1.073	1.112	1.294	1.329	1.284	1.336	1.289	1.245	8.58
16)	2,2'-oxybis(1-...	2.592	2.521	2.676	2.542	2.396	2.389	2.261	2.482	5.69
17)	2-Methylphenol	1.127	1.155	1.308	1.302	1.266	1.297	1.258	1.244	5.92
18)	Hexachloroethane	0.606	0.587	0.599	0.573	0.549	0.553	0.535	0.572	4.72
19) P	n-Nitroso-di-n...	1.131	1.172	1.314	1.310	1.262	1.274	1.209	1.239	5.66
20)	3+4-Methylphenols	1.509	1.600	1.837	1.846	1.797	1.855	1.786	1.747	7.82
21) I	Naphthalene-d8	-----ISTD-----								
22)	Acetophenone	0.487	0.488	0.519	0.519	0.495	0.514	0.494	0.502	2.84
23) S	Nitrobenzene-d5	0.371	0.364	0.392	0.396	0.381	0.393	0.379	0.382	3.16
24)	Nitrobenzene	0.387	0.378	0.406	0.408	0.392	0.403	0.389	0.395	2.81
25)	Isophorone	0.657	0.665	0.739	0.751	0.728	0.752	0.726	0.717	5.53
26) C	2-Nitrophenol	0.107	0.113	0.135	0.155	0.155	0.164	0.166	0.142	17.07
27)	2,4-Dimethylph...	0.215	0.230	0.256	0.266	0.262	0.275	0.267	0.253	8.66
28)	bis(2-Chloroet...	0.412	0.403	0.430	0.430	0.414	0.427	0.409	0.418	2.60
29) C	2,4-Dichloroph...	0.220	0.238	0.272	0.288	0.286	0.300	0.294	0.271	11.26
30)	1,2,4-Trichlor...	0.269	0.266	0.285	0.290	0.282	0.294	0.288	0.282	3.78
31)	Naphthalene	1.044	1.026	1.089	1.085	1.046	1.082	1.049	1.060	2.35
32)	Benzoic acid		0.110	0.156	0.213	0.204	0.230	0.232	0.191	25.24
33)	4-Chloroaniline	0.399	0.403	0.447	0.462	0.451	0.471	0.462	0.442	6.59
34) C	Hexachlorobuta...	0.140	0.133	0.144	0.146	0.142	0.147	0.145	0.142	3.29
35)	Caprolactam	0.085	0.091	0.111	0.118	0.118	0.125	0.122	0.110	14.24
36) C	4-Chloro-3-met...	0.269	0.291	0.335	0.351	0.345	0.360	0.350	0.329	10.55
37)	2-Methylnaphth...	0.687	0.681	0.751	0.757	0.739	0.768	0.742	0.732	4.71
38)	1-Methylnaphth...	0.675	0.676	0.742	0.749	0.726	0.753	0.726	0.721	4.56

Method	Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\									
Method	File : 8270E-BP092122.M									
39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.424	0.412	0.449	0.466	0.456	0.476	0.472	0.451	5.42
41) P	Hexachlorocycl...	0.195	0.196	0.218	0.234	0.231	0.238	0.236	0.221	8.51
42) S	2,4,6-Tribromo...	0.104	0.111	0.132	0.144	0.145	0.153	0.153	0.135	14.68
43) C	2,4,6-Trichlor...	0.253	0.275	0.324	0.353	0.347	0.366	0.366	0.326	13.86
44)	2,4,5-Trichlor...	0.304	0.328	0.374	0.398	0.393	0.413	0.416	0.375	11.52
45) S	2-Fluorobiphenyl	1.254	1.221	1.318	1.305	1.243	1.288	1.223	1.265	3.09
46)	1,1'-Biphenyl	1.437	1.397	1.487	1.490	1.436	1.484	1.442	1.453	2.39
47)	2-Chloronaphth...	1.093	1.070	1.153	1.158	1.120	1.163	1.133	1.127	3.11
48)	2-Nitroaniline	0.318	0.339	0.407	0.438	0.427	0.446	0.439	0.402	12.95
49)	Acenaphthylene	1.741	1.757	1.918	1.951	1.875	1.955	1.897	1.871	4.68
50)	Dimethylphthalate	1.393	1.374	1.504	1.517	1.471	1.523	1.483	1.466	4.08
51)	2,6-Dinitrotol...	0.252	0.264	0.304	0.325	0.316	0.330	0.328	0.303	10.61
52) C	Acenaphthene	1.103	1.082	1.166	1.186	1.151	1.187	1.157	1.147	3.51
53)	3-Nitroaniline	0.285	0.315	0.372	0.403	0.398	0.414	0.410	0.371	13.80
54) P	2,4-Dinitrophenol	0.086	0.113	0.139	0.145	0.157	0.163	0.134		21.71
55)	Dibenzofuran	1.720	1.705	1.804	1.803	1.732	1.804	1.742	1.759	2.48
56) P	4-Nitrophenol	0.226	0.294	0.323	0.322	0.342	0.340	0.308		14.15
57)	2,4-Dinitrotol...	0.302	0.338	0.412	0.443	0.439	0.463	0.461	0.408	15.52
58)	Fluorene	1.435	1.422	1.547	1.552	1.485	1.537	1.466	1.492	3.62
59)	2,3,4,6-Tetrac...	0.252	0.263	0.308	0.324	0.322	0.337	0.338	0.306	11.46
60)	Diethylphthalate	1.429	1.429	1.573	1.587	1.540	1.600	1.560	1.531	4.70
61)	4-Chlorophenyl...	0.576	0.579	0.634	0.654	0.631	0.656	0.638	0.624	5.31
62)	4-Nitroaniline	0.279	0.323	0.400	0.435	0.426	0.445	0.441	0.393	16.69
63)	Azobenzene	1.637	1.628	1.768	1.729	1.651	1.695	1.628	1.677	3.30
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...	0.064	0.080	0.097	0.099	0.104	0.108	0.092		18.26
66) c	n-Nitrosodiphe...	0.554	0.561	0.613	0.623	0.598	0.618	0.604	0.596	4.68
67)	4-Bromophenyl-...	0.145	0.146	0.165	0.172	0.170	0.176	0.175	0.164	8.10
68)	Hexachlorobenzene	0.163	0.159	0.173	0.183	0.176	0.183	0.182	0.174	5.71
69)	Atrazine	0.143	0.151	0.175	0.187	0.180	0.188	0.183	0.173	10.42
70) C	Pentachlorophenol	0.082	0.102	0.118	0.118	0.124	0.126	0.112		15.13
71)	Phenanthrene	1.091	1.081	1.153	1.165	1.118	1.159	1.129	1.128	2.94
72)	Anthracene	0.988	1.008	1.113	1.136	1.091	1.121	1.095	1.079	5.34
73)	Carbazole	0.960	0.986	1.101	1.110	1.064	1.102	1.074	1.057	5.68
74)	Di-n-butylphth...	1.074	1.135	1.315	1.369	1.322	1.362	1.332	1.273	9.27
75) C	Fluoranthene	1.081	1.113	1.260	1.307	1.255	1.301	1.267	1.226	7.42
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.331	0.343	0.377	0.372	0.428	0.445	0.420	0.388	11.29
78)	Pyrene	1.246	1.252	1.388	1.398	1.355	1.385	1.331	1.336	4.78
79) S	Terphenyl-d14	0.836	0.852	0.936	0.920	0.862	0.868	0.814	0.870	5.05
80)	Butylbenzylpht...	0.433	0.478	0.582	0.640	0.639	0.670	0.665	0.587	16.18
81)	Benzo(a)anthra...	1.230	1.231	1.364	1.387	1.328	1.368	1.329	1.320	4.88
82)	3,3'-Dichlorob...	0.297	0.373	0.404	0.400	0.421	0.415	0.385		12.03
83)	Chrysene	1.195	1.187	1.291	1.297	1.245	1.294	1.244	1.250	3.73
84)	Bis(2-ethylhex...	0.642	0.716	0.889	0.983	0.951	0.981	0.957	0.874	15.83
85) c	Di-n-octyl pht...	1.137	1.439	1.625	1.605	1.677	1.667	1.525		13.69

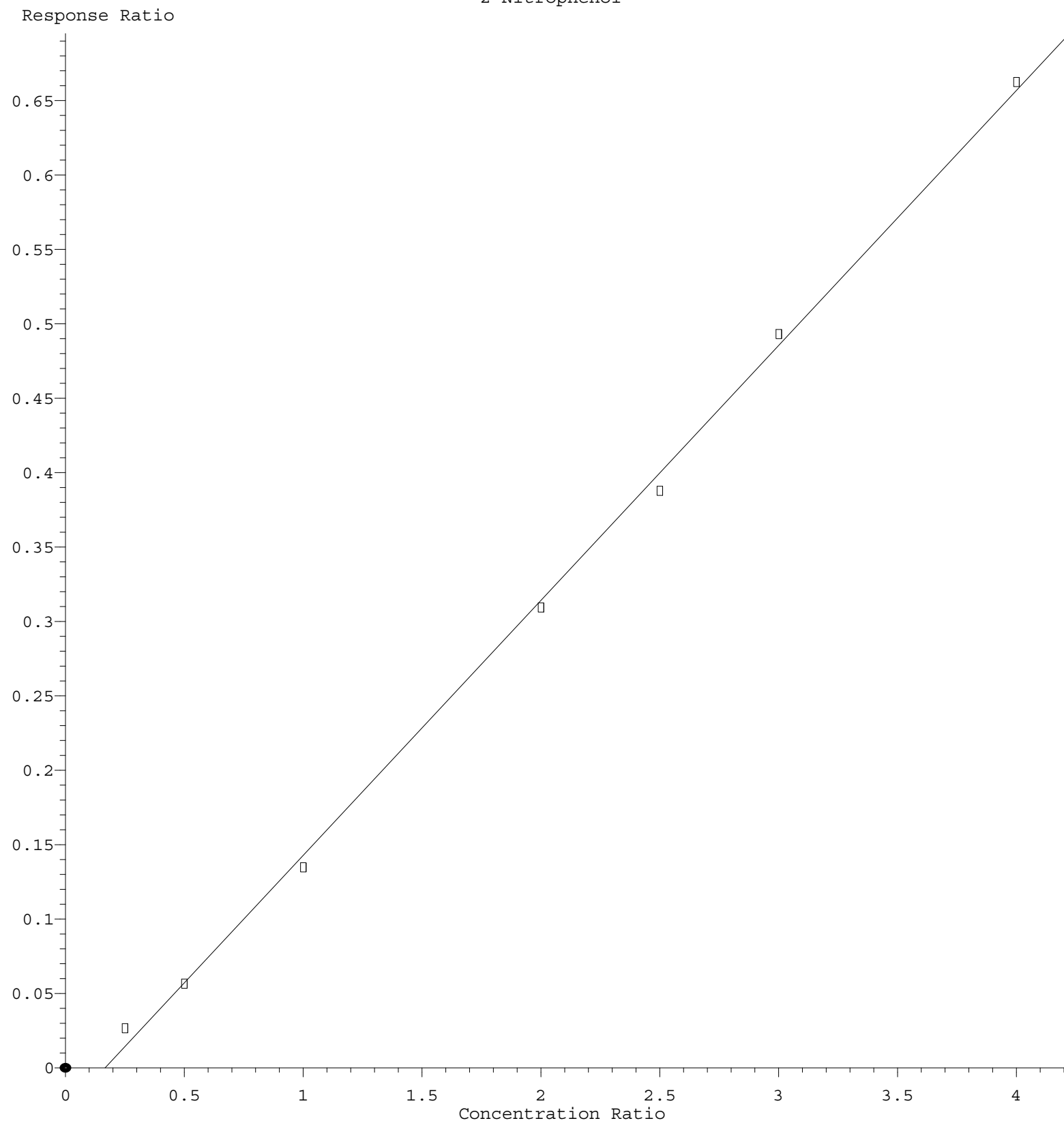
Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\

Method File : 8270E-BP092122.M

86) I	Perylene-d12										
87)	Indeno(1,2,3-c...	1.342	1.371	1.577	1.672	1.593	1.714	1.684	1.565		9.62
88)	Benzo(b)fluora...	1.099	1.101	1.245	1.300	1.312	1.348	1.287	1.242		8.18
89)	Benzo(k)fluora...	1.140	1.184	1.317	1.363	1.270	1.335	1.297	1.272		6.43
90) C	Benzo(a)pyrene	0.892	0.926	1.061	1.117	1.092	1.148	1.117	1.051		9.58
91)	Dibenzo(a,h)an...	1.127	1.149	1.326	1.385	1.325	1.413	1.370	1.299		8.83
92)	Benzo(g,h,i)pe...	1.100	1.110	1.268	1.326	1.273	1.373	1.355	1.258		8.85

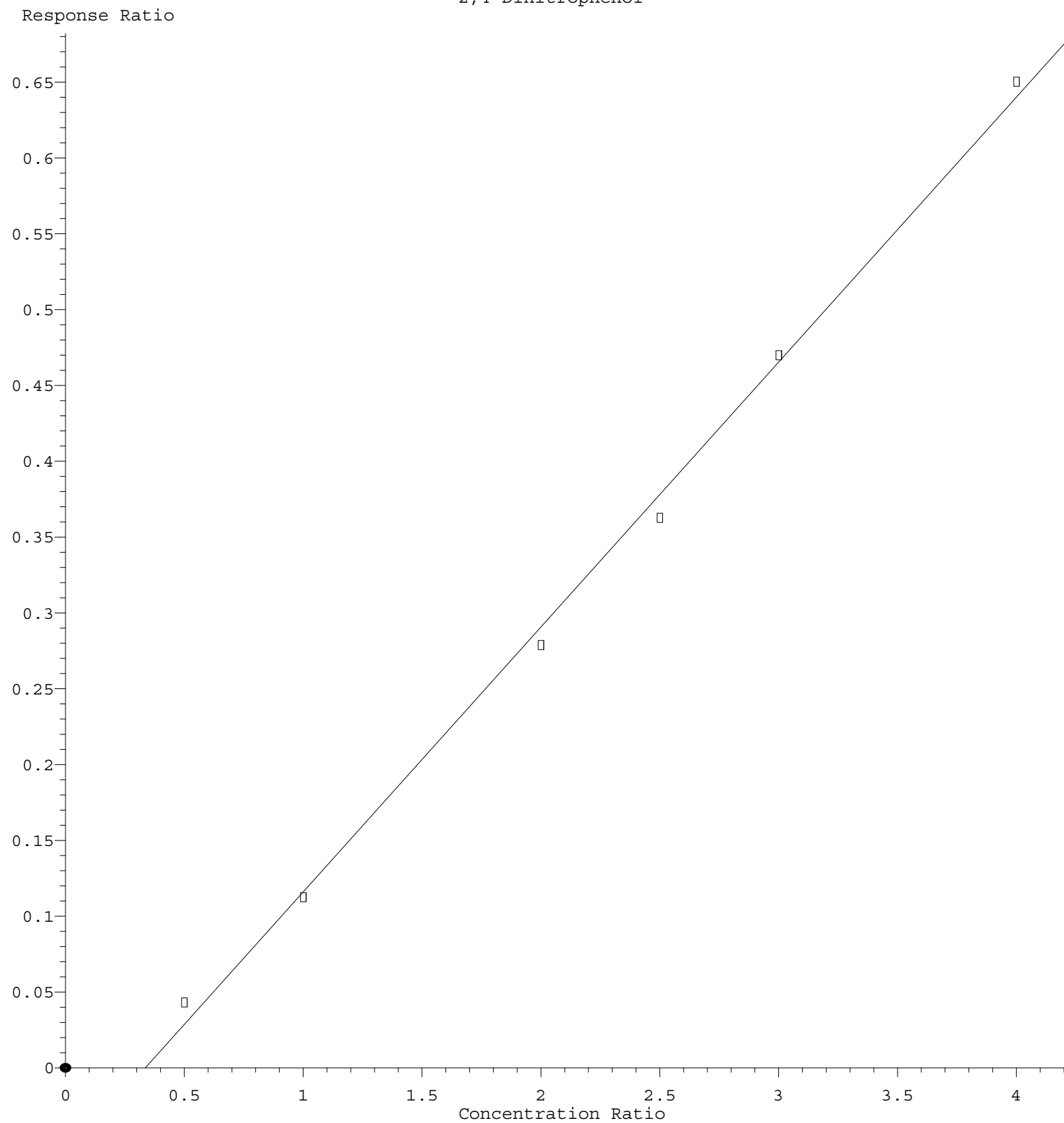
(#) = Out of Range

2-Nitrophenol



Response = $1.713 \times 10^{-1} \times \text{Amt} - 2.854 \times 10^{-2}$
 Coef of Det (r^2) = 0.998589 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP092122.M
 Calibration Table Last Updated: Thu Sep 22 02:45:14 2022

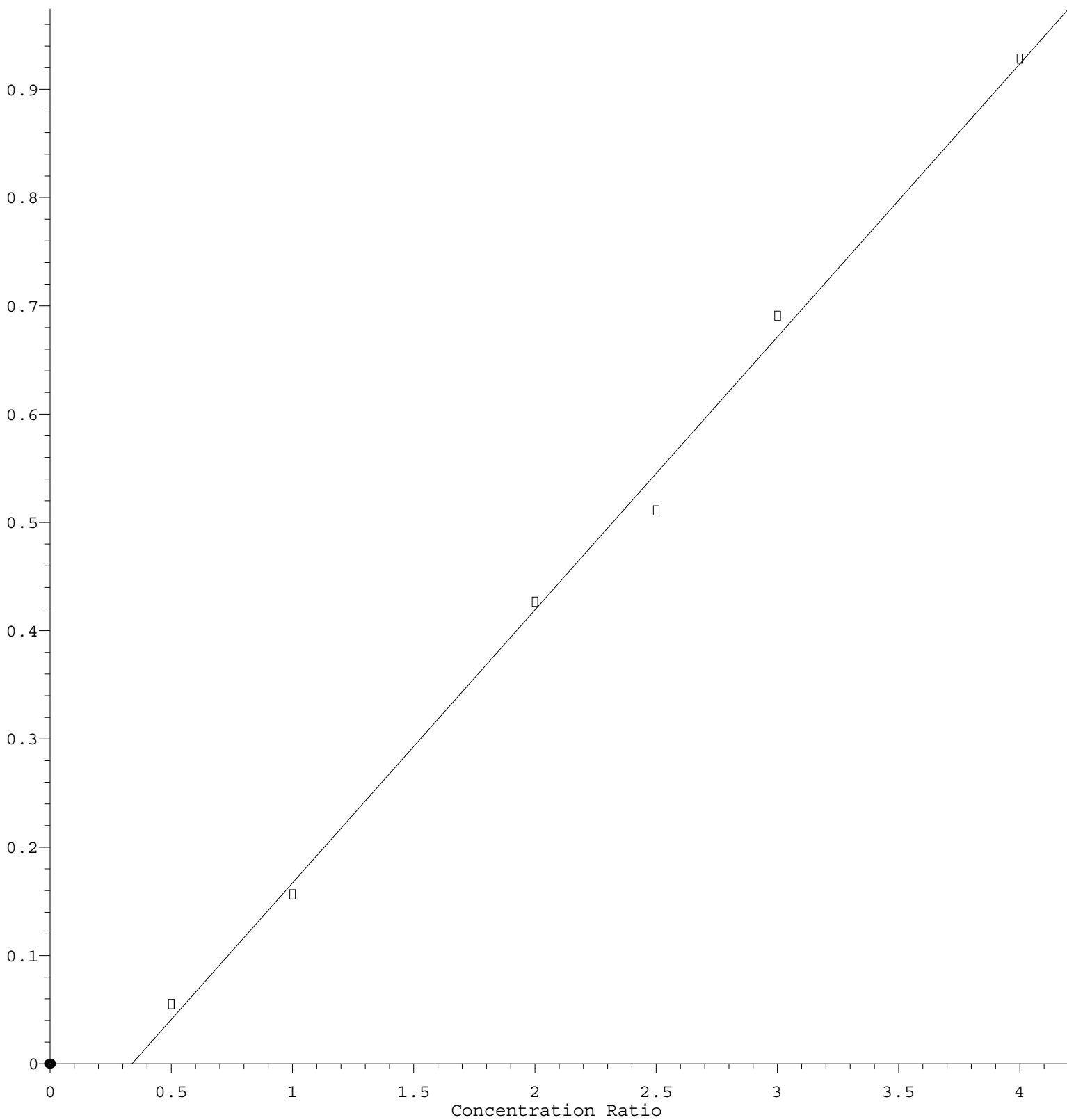
2,4-Dinitrophenol



Response = $1.746 \times 10^{-1} \times \text{Amt} - 5.871 \times 10^{-2}$
 Coef of Det (r^2) = 0.997174 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP092122.M
 Calibration Table Last Updated: Thu Sep 22 02:45:14 2022

Benzoic acid

Response Ratio



$$\text{Response} = 2.523\text{e-}001 * \text{Amt} - 8.525\text{e-}002$$

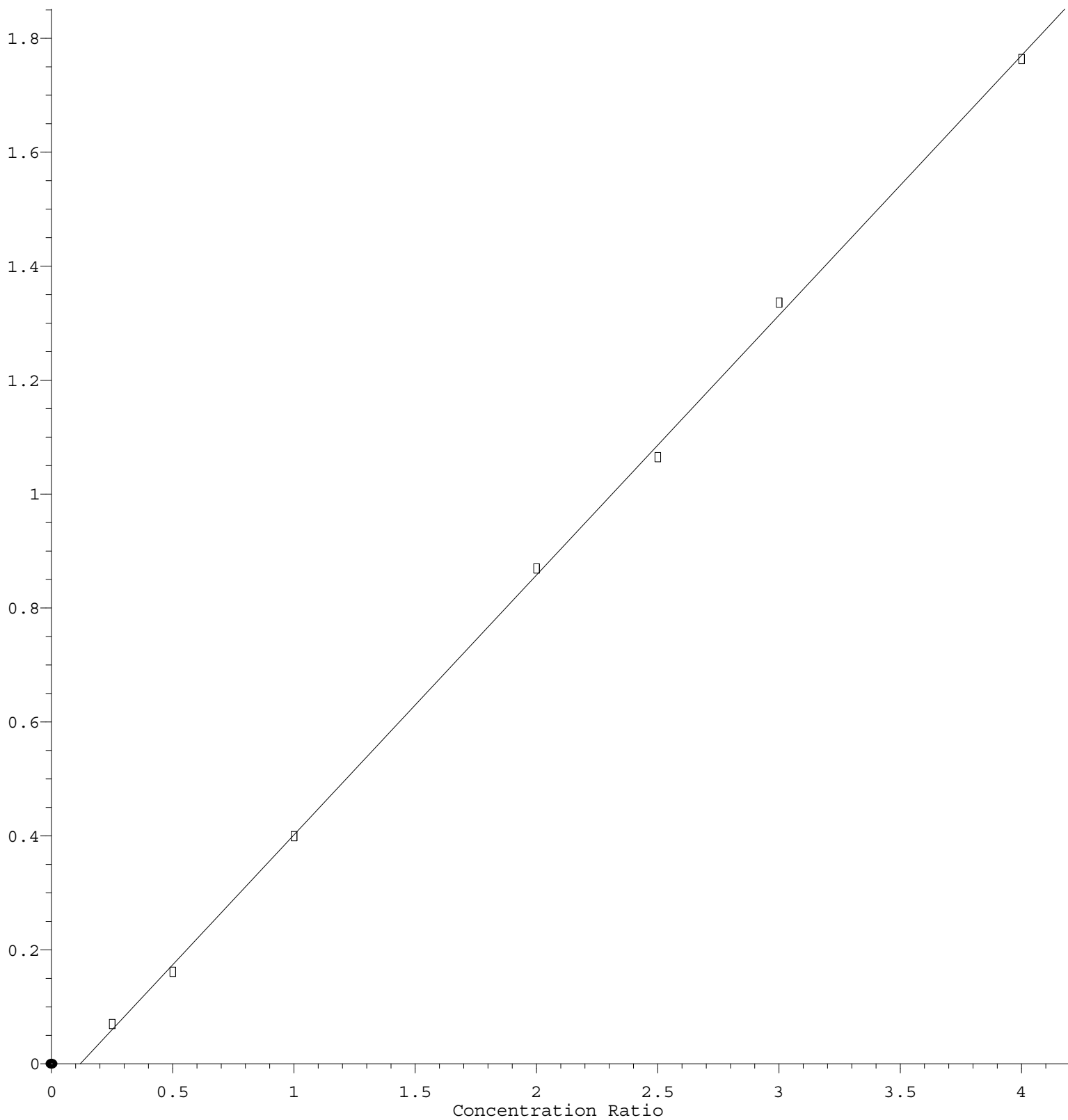
Coef of Det (r^2) = 0.996353 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP092122.M

Calibration Table Last Updated: Thu Sep 22 02:45:14 2022

4-Nitroaniline

Response Ratio



$$\text{Response} = 4.562\text{e-}001 * \text{Amt} - 5.442\text{e-}002$$

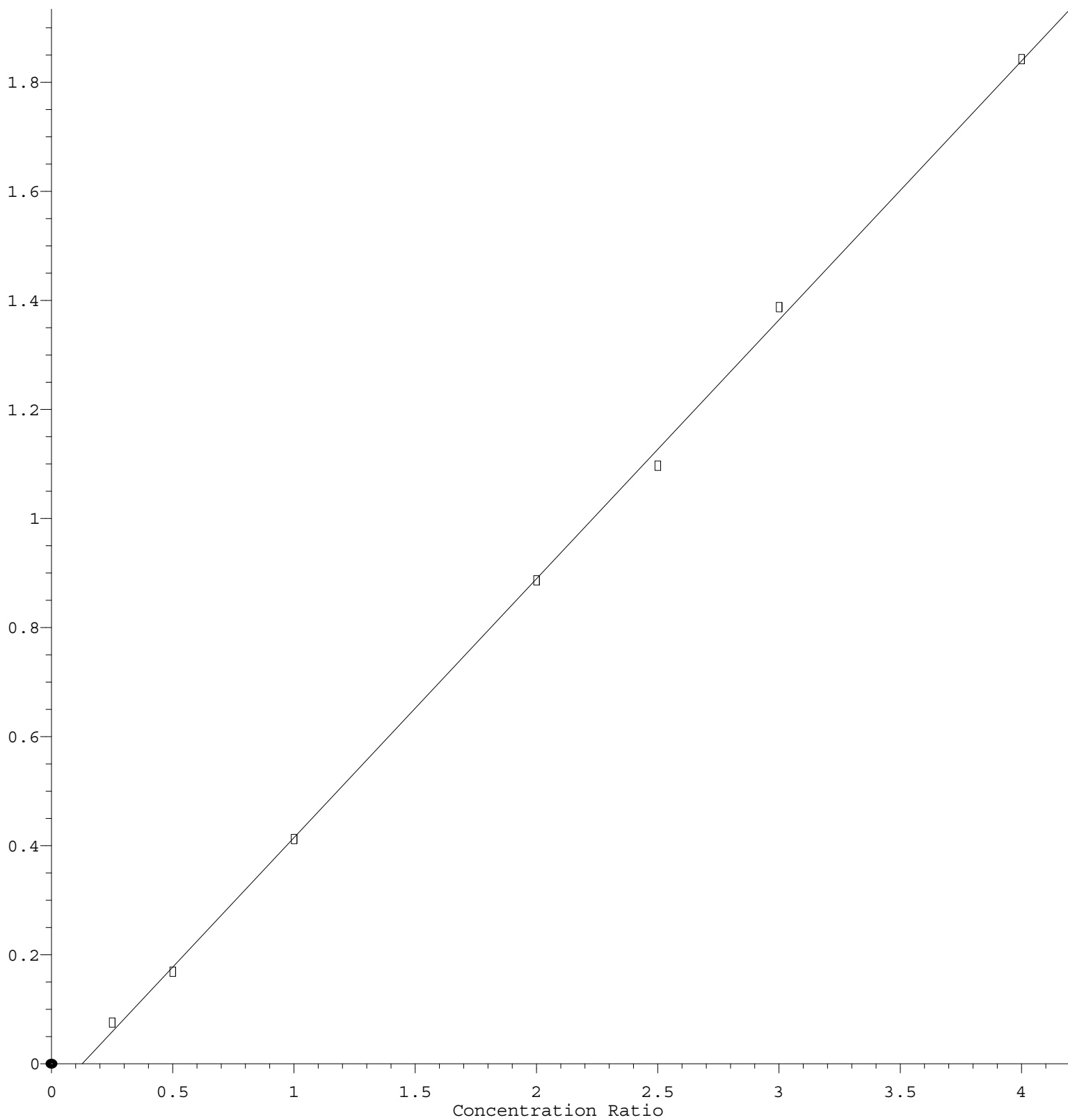
Coef of Det (r^2) = 0.999424 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP092122.M

Calibration Table Last Updated: Thu Sep 22 02:45:14 2022

2,4-Dinitrotoluene

Response Ratio



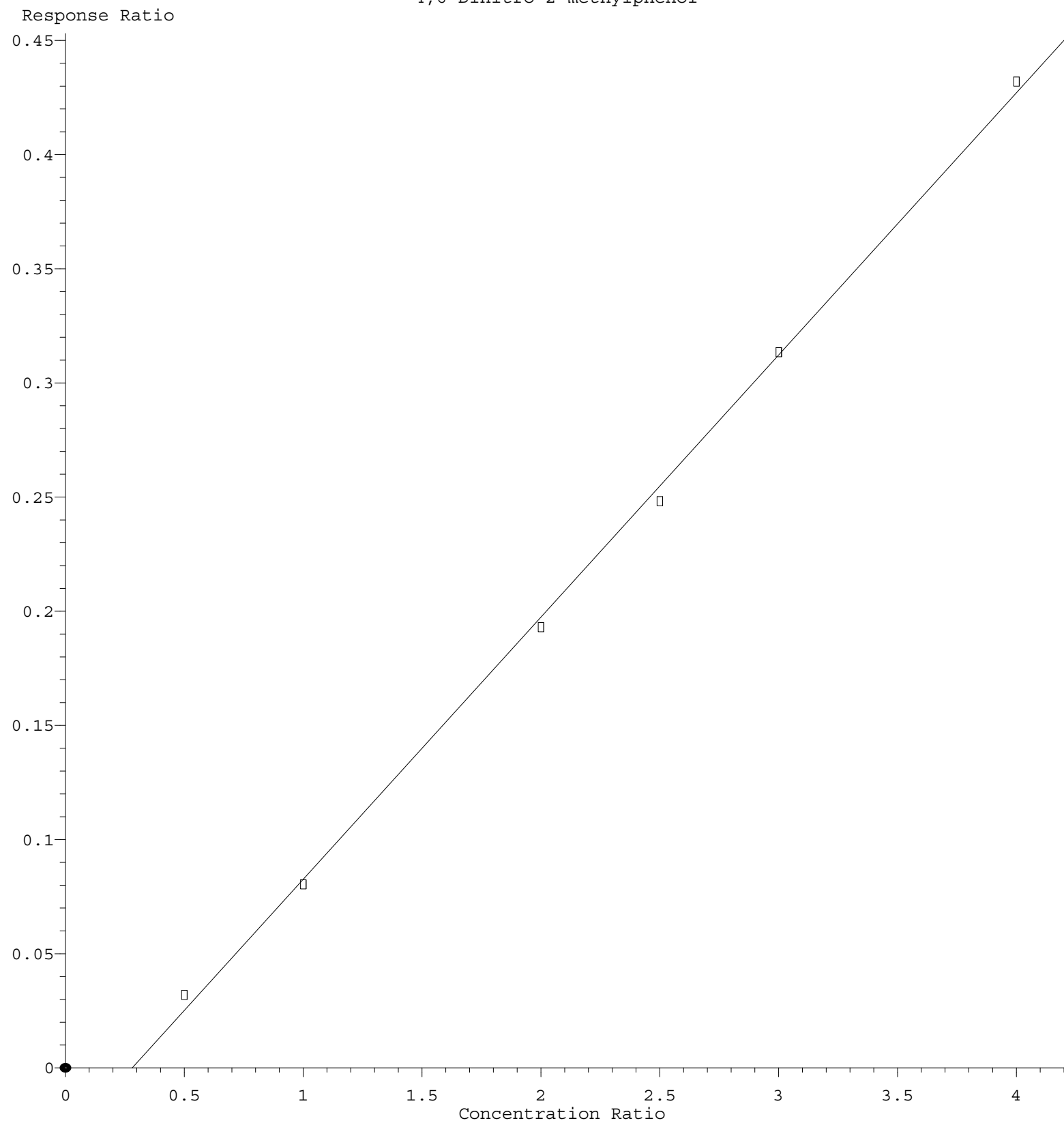
$$\text{Response} = 4.748\text{e-}001 * \text{Amt} - 6.028\text{e-}002$$

Coef of Det (r^2) = 0.999289 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP092122.M

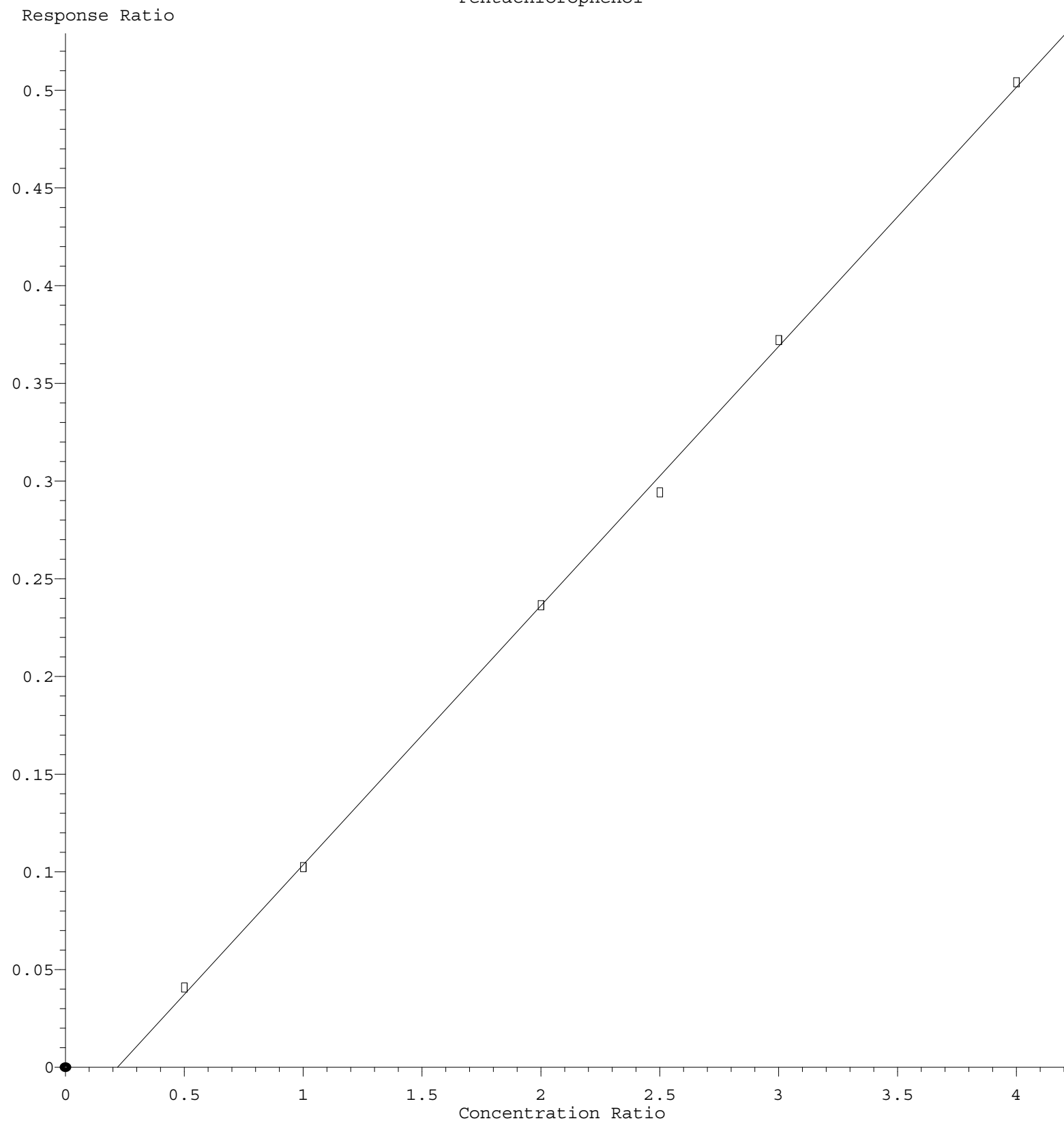
Calibration Table Last Updated: Thu Sep 22 02:45:14 2022

4,6-Dinitro-2-methylphenol



Response = $1.148 \times 10^{-1} \times \text{Amt} - 3.226 \times 10^{-2}$
 Coef of Det (r^2) = 0.998735 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP092122.M
 Calibration Table Last Updated: Thu Sep 22 02:45:14 2022

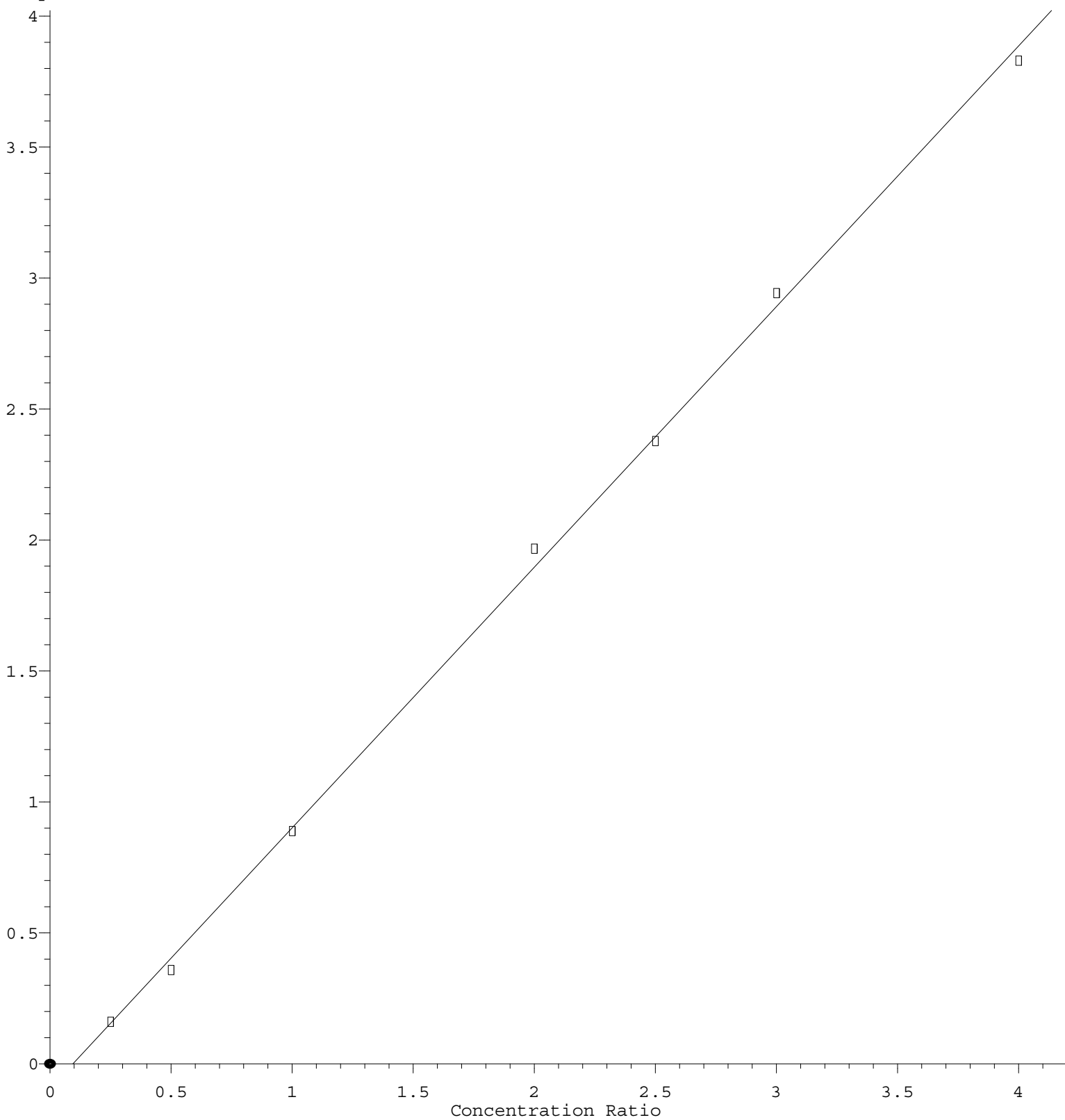
Pentachlorophenol



Response = 1.326e-001 * Amt - 2.908e-002
 Coef of Det (r^2) = 0.999311 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP092122.M
 Calibration Table Last Updated: Thu Sep 22 02:45:14 2022

Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 9.950\text{e-}001 * \text{Amt} - 9.439\text{e-}002$$

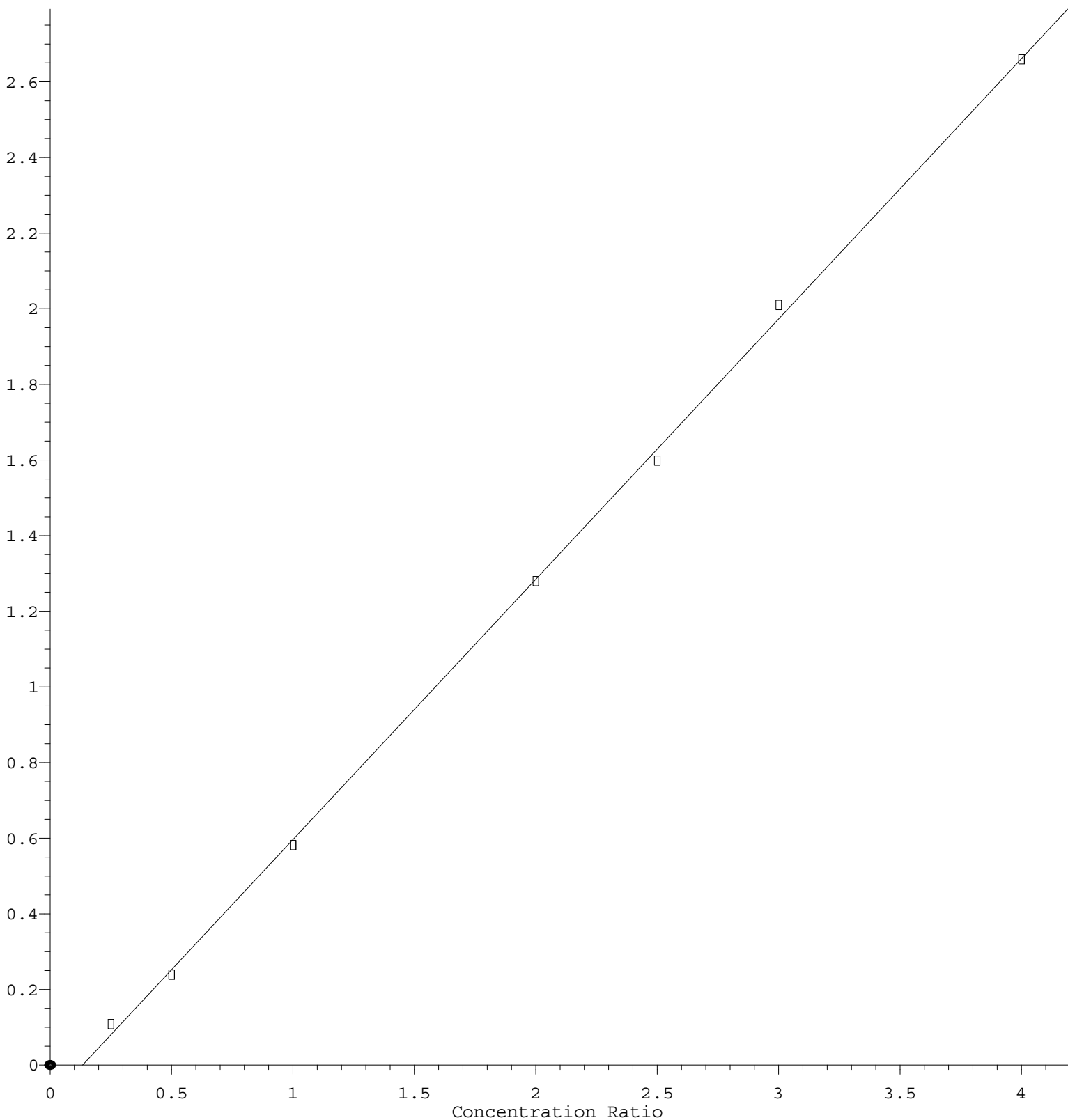
Coef of Det (r^2) = 0.998835 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP092122.M

Calibration Table Last Updated: Thu Sep 22 02:45:14 2022

Butylbenzylphthalate

Response Ratio



$$\text{Response} = 6.885\text{e-}001 * \text{Amt} - 9.237\text{e-}002$$

Coef of Det (r^2) = 0.999356 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP092122.M

Calibration Table Last Updated: Thu Sep 22 02:45:14 2022