

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF120522.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Dec 06 01:30:30 2022
 Response Via : Initial Calibration

Calibration Files

2.5 =BF131503.D 5 =BF131504.D 10 =BF131505.D 20 =BF131506.D 40 =BF131507.D 50 =BF131508.D 60 =BF131509.D 80 =BF131510.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane		0.540	0.541	0.471	0.482	0.500	0.501	0.474	0.501	5.84
3)	Pyridine		1.544	1.506	1.321	1.350	1.407	1.381	1.289	1.399	6.74
4)	n-Nitrosodimet...		0.773	0.807	0.680	0.705	0.704	0.711	0.640	0.717	7.86
5) S	2-Fluorophenol		1.155	1.225	1.098	1.125	1.270	1.183	1.143	1.171	5.10
6)	Aniline		1.963	1.960	1.858	1.716	1.735	1.757	1.649	1.805	6.82
7) S	Phenol-d6		1.501	1.545	1.524	1.393	1.441	1.457	1.376	1.463	4.39
8)	2-Chlorophenol		1.239	1.301	1.282	1.176	1.253	1.275	1.230	1.251	3.31
9)	Benzaldehyde			1.181	1.043	0.853	0.822	0.768		0.933	18.49
10) C	Phenol		1.688	1.752	1.694	1.568	1.638	1.679	1.563	1.654	4.20
11)	bis(2-Chloroet...		1.290	1.310	1.286	1.171	1.183	1.192	1.121	1.222	5.97
12)	1,3-Dichlorobe...		1.478	1.520	1.497	1.381	1.445	1.479	1.419	1.460	3.28
13) C	1,4-Dichlorobe...		1.535	1.542	1.528	1.406	1.468	1.509	1.455	1.492	3.38
14)	1,2-Dichlorobe...		1.472	1.450	1.318	1.320	1.379	1.409	1.383	1.390	4.24
15)	Benzyl Alcohol		1.217	1.312	1.214	1.202	1.230	1.233	1.154	1.223	3.87
16)	2,2'-oxybis(1-...		1.355	1.350	1.186	1.154	1.154	1.144	1.043	1.198	9.57
17)	2-Methylphenol		1.083	1.135	0.997	1.006	1.045	1.049	0.999	1.045	4.86
18)	Hexachloroethane		0.567	0.578	0.545	0.531	0.556	0.567	0.537	0.554	3.17
19) P	n-Nitroso-di-n...	1.101	1.105	1.072	0.954	0.938	0.946	0.944	0.859	0.990	9.13
20)	3+4-Methylphenols		1.451	1.499	1.375	1.379	1.421	1.415	1.349	1.413	3.61
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone		0.506	0.564	0.555	0.538	0.489	0.584	0.563	0.543	6.30
23) S	Nitrobenzene-d5		0.407	0.460	0.453	0.437	0.389	0.462	0.440	0.436	6.36
24)	Nitrobenzene		0.423	0.471	0.464	0.442	0.388	0.460	0.430	0.440	6.58
25)	Isophorone		0.650	0.733	0.679	0.680	0.608	0.718	0.677	0.678	6.14
26) C	2-Nitrophenol		0.123	0.147	0.158	0.161	0.156	0.192	0.190	0.161	14.89
27)	2,4-Dimethylph...		0.240	0.265	0.255	0.266	0.249	0.291	0.286	0.264	7.07
28)	bis(2-Chloroet...		0.359	0.395	0.385	0.374	0.340	0.397	0.380	0.376	5.41
29) C	2,4-Dichloroph...		0.268	0.299	0.306	0.302	0.293	0.343	0.333	0.306	8.19
30)	1,2,4-Trichlor...		0.347	0.380	0.394	0.372	0.376	0.410	0.399	0.383	5.45
31)	Naphthalene		1.100	1.117	1.145	1.041	1.069	1.143	1.125	1.106	3.50
32)	Benzoic acid			0.130	0.137	0.163	0.162	0.205		0.159	18.52
33)	4-Chloroaniline		0.414	0.414	0.424	0.395	0.407	0.432	0.412	0.414	2.86
34) C	Hexachlorobuta...		0.264	0.273	0.261	0.264	0.274	0.290	0.287	0.273	4.25
35)	Caprolactam		0.080	0.081	0.085	0.083	0.090	0.091	0.091	0.086	5.44
36) C	4-Chloro-3-met...		0.321	0.322	0.306	0.319	0.335	0.351	0.338	0.327	4.56
37)	2-Methylnaphth...		0.761	0.723	0.705	0.708	0.738	0.788	0.756	0.740	4.11
38)	1-Methylnaphth...		0.718	0.703	0.683	0.676	0.708	0.746	0.742	0.711	3.78

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF120522.M

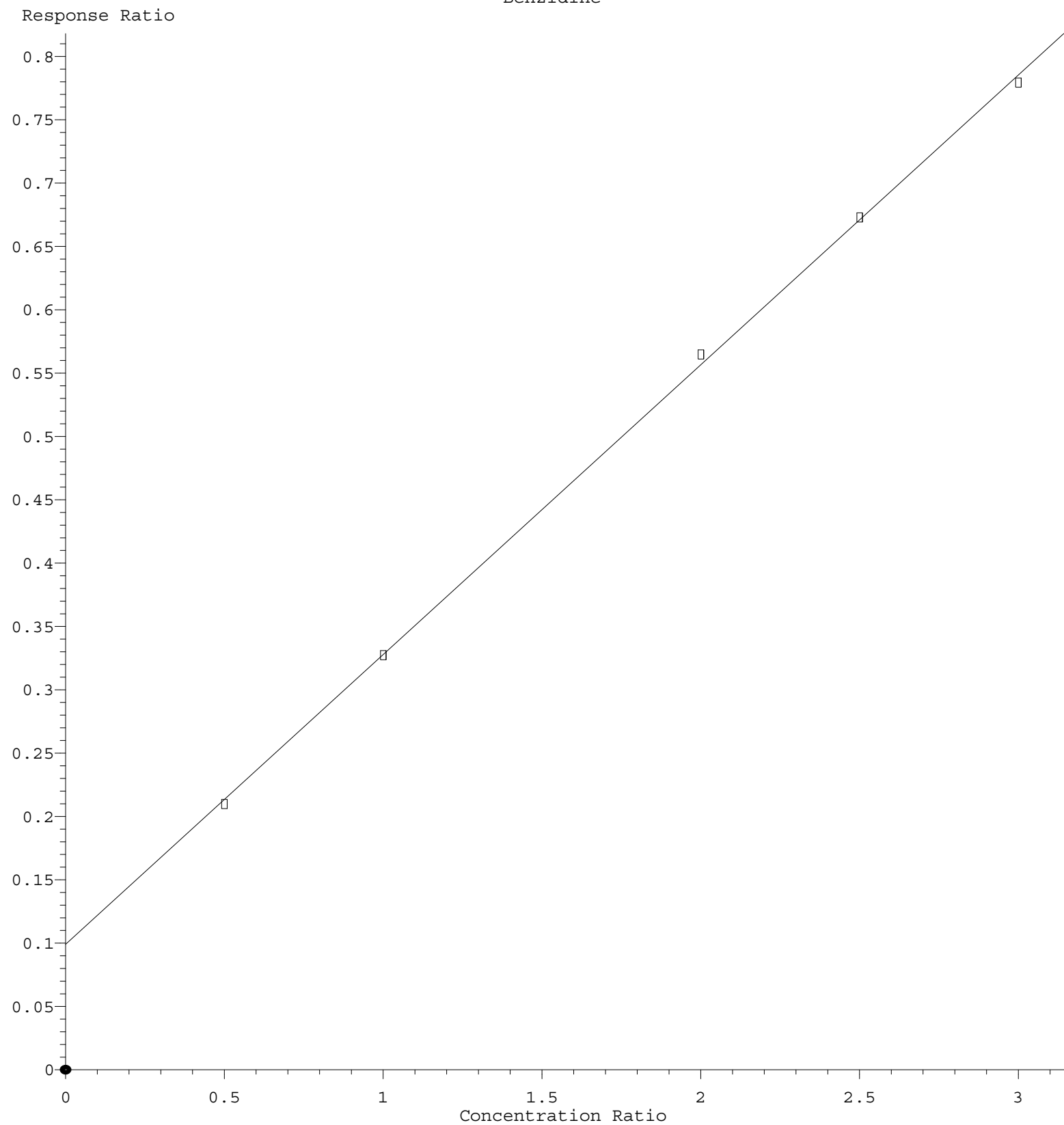
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.718	0.726	0.672	0.701	0.818	0.763	0.774	0.739	6.66	
41) P	Hexachlorocycl...	0.243	0.283	0.292	0.331	0.395	0.390	0.397	0.333	18.84	
42) S	2,4,6-Tribromo...	0.181	0.196	0.209	0.219	0.268	0.252	0.269	0.228	15.52	
43) C	2,4,6-Trichlor...	0.382	0.429	0.399	0.429	0.513	0.486	0.489	0.447	11.16	
44)	2,4,5-Trichlor...	0.427	0.436	0.433	0.464	0.550	0.507	0.517	0.476	10.17	
45) S	2-Fluorobiphenyl	1.481	1.512	1.428	1.460	1.656	1.571	1.564	1.525	5.12	
46)	1,1'-Biphenyl	1.569	1.556	1.473	1.486	1.719	1.633	1.604	1.577	5.41	
47)	2-Chloronaphth...	1.280	1.277	1.218	1.205	1.412	1.300	1.326	1.288	5.39	
48)	2-Nitroaniline	0.331	0.369	0.368	0.367	0.402	0.391	0.378	0.372	6.02	
49)	Acenaphthylene	1.869	1.911	1.925	1.816	2.052	1.935	1.964	1.924	3.85	
50)	Dimethylphthalate	1.393	1.438	1.381	1.362	1.580	1.481	1.482	1.446	5.25	
51)	2,6-Dinitrotol...	0.280	0.287	0.288	0.300	0.353	0.320	0.334	0.309	8.86	
52) C	Acenaphthene	1.170	1.222	1.255	1.204	1.248	1.316	1.325	1.248	4.55	
53)	3-Nitroaniline	0.303	0.306	0.317	0.312	0.356	0.335	0.333	0.323	5.90	
54) P	2,4-Dinitrophenol		0.113	0.138	0.145	0.165	0.178	0.191	0.155	18.44	
55)	Dibenzofuran	1.727	1.821	1.827	1.723	1.936	1.861	1.863	1.823	4.18	
56) P	4-Nitrophenol	0.189	0.198	0.217	0.230	0.244	0.246	0.255	0.226	11.19	
57)	2,4-Dinitrotol...	0.332	0.376	0.396	0.404	0.437	0.440	0.451	0.405	10.37	
58)	Fluorene	1.402	1.487	1.371	1.449	1.720	1.545	1.554	1.504	7.77	
59)	2,3,4,6-Tetrac...	0.328	0.366	0.398	0.393	0.462	0.430	0.451	0.404	11.79	
60)	Diethylphthalate	1.264	1.407	1.467	1.360	1.571	1.454	1.453	1.425	6.73	
61)	4-Chlorophenyl...	0.733	0.762	0.709	0.744	0.888	0.801	0.810	0.778	7.77	
62)	4-Nitroaniline	0.272	0.315	0.295	0.314	0.385	0.337	0.338	0.322	11.19	
63)	Azobenzene	1.453	1.512	1.355	1.375	1.440	1.381	1.322	1.405	4.66	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.076	0.090	0.104	0.107	0.126	0.130	0.134	0.110	19.70	
66) c	n-Nitrosodiphe...	0.622	0.615	0.635	0.598	0.605	0.669	0.650	0.628	4.03	
67)	4-Bromophenyl-...	0.232	0.238	0.277	0.238	0.234	0.265	0.267	0.250	7.56	
68)	Hexachlorobenzene	0.255	0.268	0.302	0.262	0.260	0.295	0.299	0.277	7.37	
69)	Atrazine	0.181	0.183	0.222	0.183	0.171	0.187	0.173	0.186	9.23	
70) C	Pentachlorophenol		0.112	0.147	0.142	0.154	0.167	0.169	0.148	14.09	
71)	Phenanthrene	1.072	1.087	1.144	1.060	1.103	1.169	1.144	1.111	3.73	
72)	Anthracene	1.043	1.078	1.125	1.037	1.119	1.135	1.110	1.093	3.67	
73)	Carbazole	0.919	0.922	0.965	0.894	0.822	0.965	0.951	0.920	5.49	
74)	Di-n-butylphth...	0.951	0.994	1.088	1.019	0.940	1.118	1.078	1.027	6.78	
75) C	Fluoranthene	1.242	1.217	1.306	1.183	1.186	1.242	1.186	1.223	3.66	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine		0.419	0.327	0.282	0.269	0.260		0.312	21.06	
78)	Pyrene	1.530	1.593	1.757	1.723	2.045	1.978	1.913	1.791	10.88	
79) S	Terphenyl-d14	0.973	1.172	1.327	1.317	1.542	1.493	1.448	1.324	15.02	
80)	Butylbenzylpht...	0.334	0.407	0.439	0.498	0.584	0.571	0.548	0.483	19.30	
81)	Benzo(a)anthra...	1.321	1.341	1.421	1.331	1.350	1.410	1.387	1.366	2.92	
82)	3,3'-Dichlorob...	0.338	0.385	0.407	0.357	0.368	0.380	0.354	0.370	6.16	
83)	Chrysene	1.294	1.321	1.287	1.256	1.312	1.376	1.344	1.313	3.00	
84)	Bis(2-ethylhex...	0.424	0.486	0.526	0.536	0.588	0.622	0.598	0.540	12.87	
85) c	Di-n-octyl pht...	0.512	0.559	0.518	0.609	0.806	0.806		0.635	21.59	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF120522.M

		-----ISTD-----	
86) I	Perylene-d12		
87)	Indeno(1,2,3-c...	0.905 1.024 1.391 1.637 1.459 1.594 1.608 1.374	21.47
88)	Benzo(b)fluora...	1.179 1.285 1.516 1.218 1.318 1.339 1.239 1.299	8.54
89)	Benzo(k)fluora...	1.429 1.511 1.593 1.323 1.300 1.359 1.357 1.410	7.62
90) C	Benzo(a)pyrene	0.966 1.050 1.087 1.056 1.086 1.136 1.166 1.078	6.00
91)	Dibenzo(a,h)an...	0.687 0.807 1.098 1.313 1.195 1.296 1.321 1.102	23.36
92)	Benzo(g,h,i)pe...	0.812 0.873 1.205 1.373 1.292 1.306 1.314 1.168	19.54

(#) = Out of Range

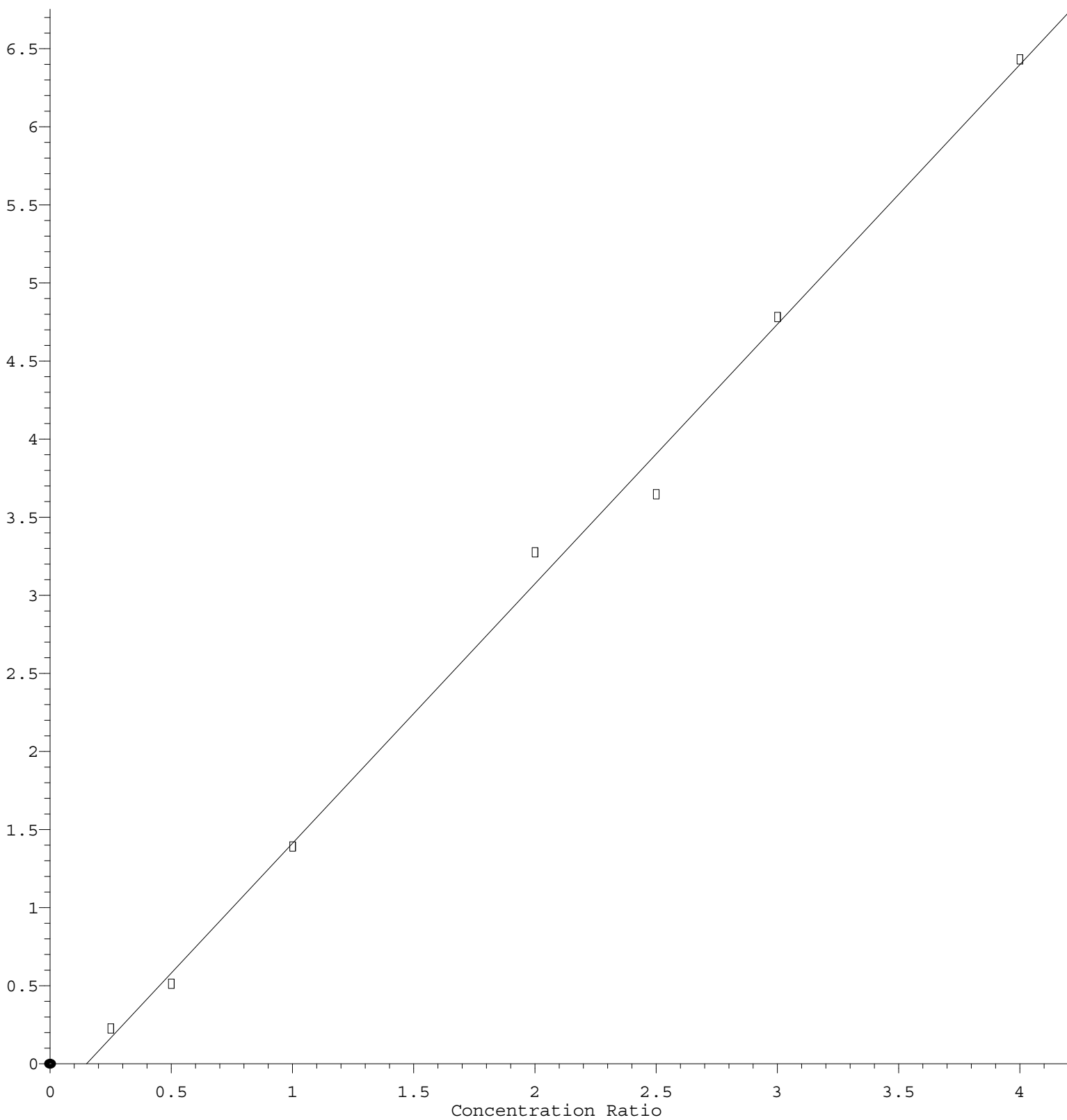
Benzidine



Response = 2.290e-001 * Amt + 9.863e-002
Coef of Det (r^2) = 0.999470 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF120522.M
Calibration Table Last Updated: Tue Dec 06 01:30:30 2022

Indeno (1,2,3-cd)pyrene

Response Ratio



$$\text{Response} = 1.662\text{e}+000 * \text{Amt} - 2.512\text{e}-001$$

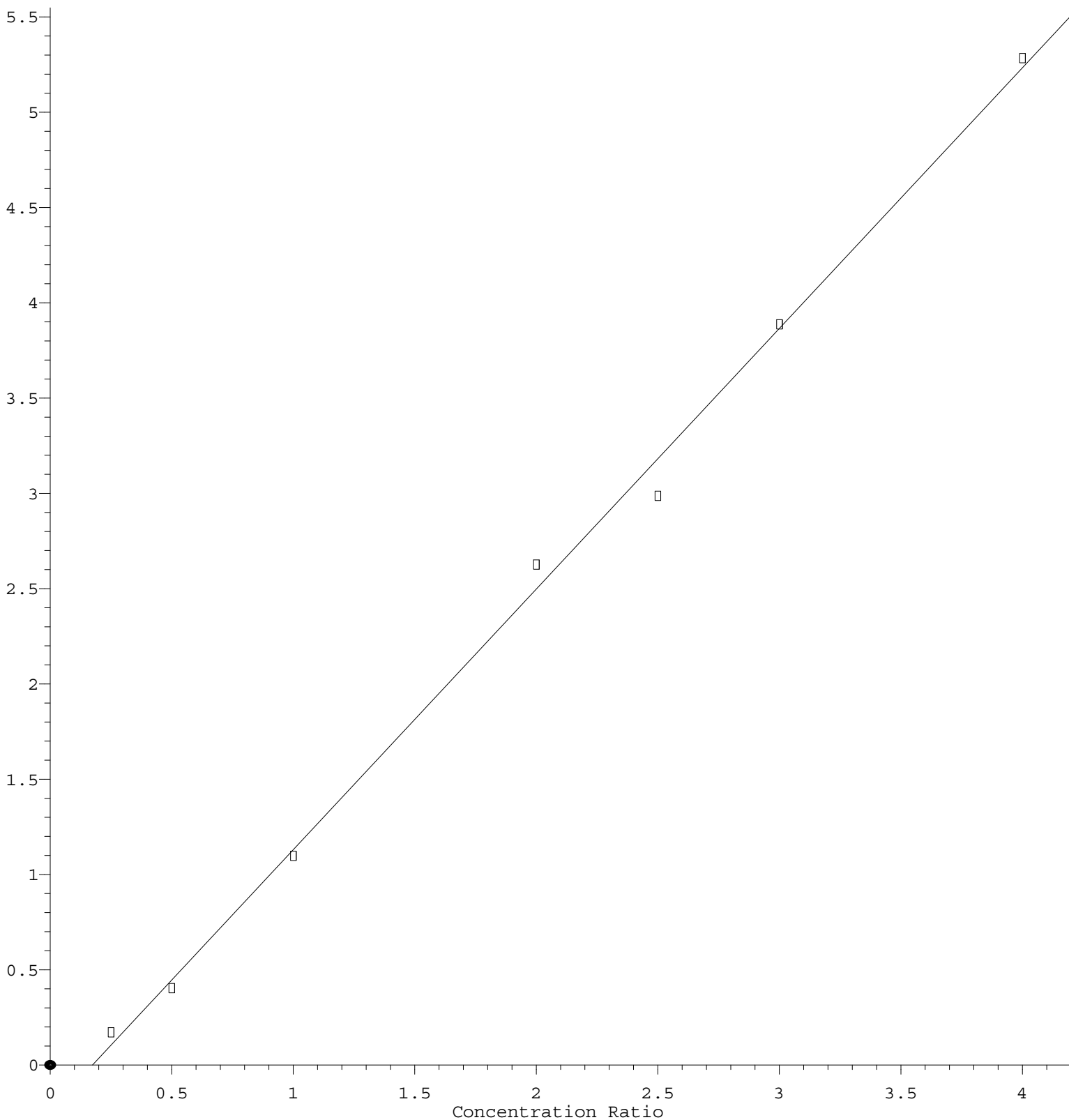
Coef of Det (r^2) = 0.996261 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF120522.M

Calibration Table Last Updated: Tue Dec 06 01:30:30 2022

Dibenzo (a,h) anthracene

Response Ratio



$$\text{Response} = 1.368\text{e}+000 * \text{Amt} - 2.384\text{e}-001$$

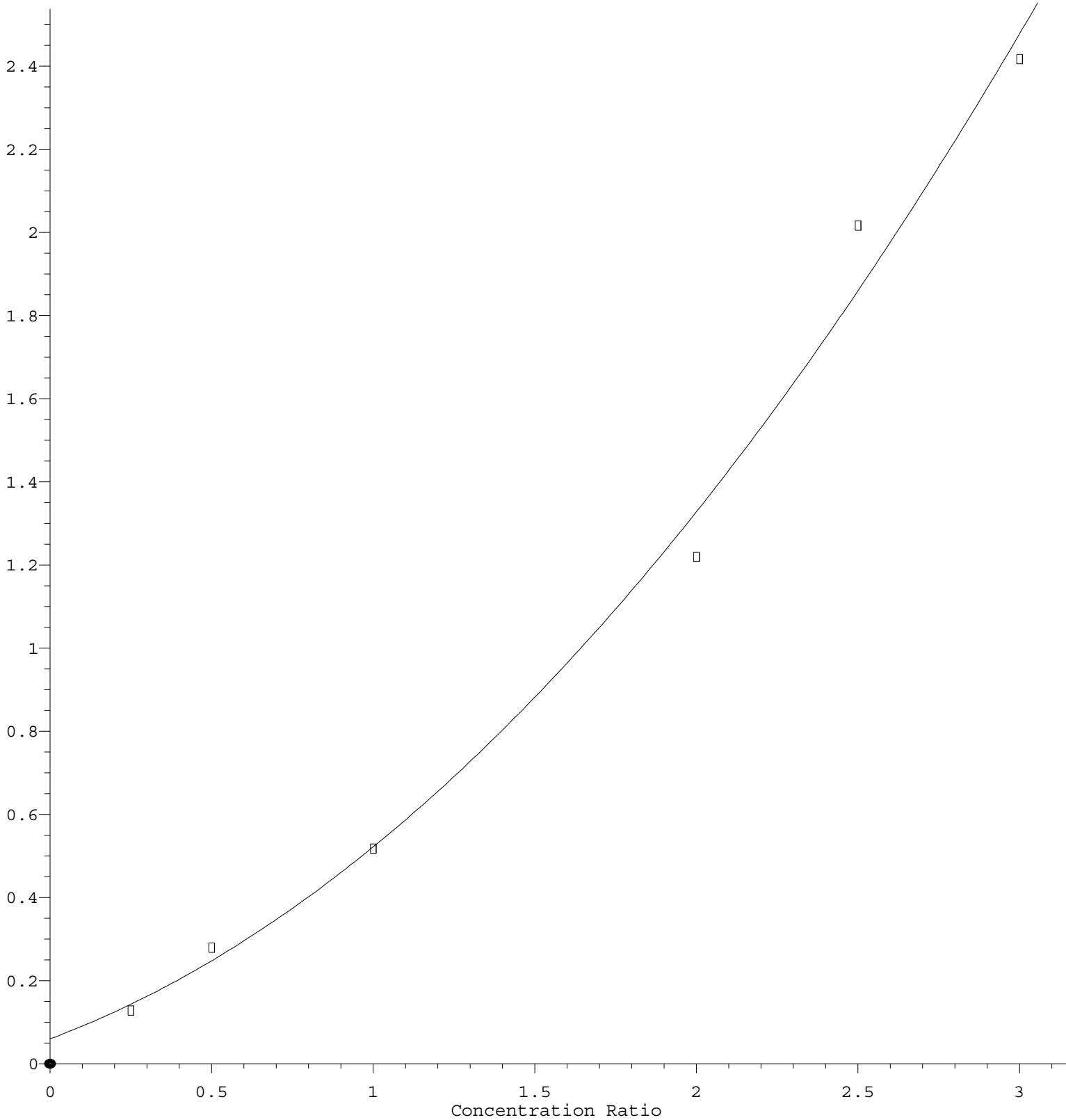
Coef of Det (r^2) = 0.996991 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF120522.M

Calibration Table Last Updated: Tue Dec 06 01:30:30 2022

Di-n-octyl phthalate

Response Ratio



$R = 1.720e-001 A^2 + 2.899e-001 A + 5.966e-002$
 Coef of Det (r^2) = 0.990918 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF120522.M
 Calibration Table Last Updated: Tue Dec 06 01:30:30 2022