Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG041823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Apr 19 04:21:14 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BG057126.D 5 =BG057127.D 10 =BG057128.D 20 =BG057129.D 40 =BG057130.D 50 =BG057131.D 60 =BG057132.D 80 =BG0571
33.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.739	0.797	0.484	0.795	0.745	0.724	0.721	0.715	14.89
3)		Pyridine		1.225	1.529	1.406	1.768	1.548	1.536	1.290	1.472	12.39
4)		n-Nitrosodimet...		0.601	0.778	0.664	0.887	0.759	0.764	0.702	0.736	12.44
5)	S	2-Fluorophenol		1.073	0.982	1.082	1.309	1.373	1.333	1.070	1.174	13.44
6)		Aniline		2.237	2.094	2.208	2.394	2.100	2.182	2.057	2.182	5.24
7)	S	Phenol-d6		1.904	1.594	1.671	1.982	1.640	1.746	1.615	1.736	8.70
8)		2-Chlorophenol		1.067	1.127	1.324	1.318	1.138	1.189	1.155	1.188	8.23
9)		Benzaldehyde			1.116	1.091	1.177	0.902	0.881		1.033	12.91
10)	C	Phenol		1.870	1.573	1.677	1.749	1.568	1.711	1.630	1.682	6.34
11)		bis(2-Chloroet...		0.963	1.159	1.315	1.267	1.128	1.185	1.127	1.164	9.75
12)		1,3-Dichlorobe...		1.502	1.277	1.467	1.468	1.289	1.359	1.254	1.374	7.59
13)	C	1,4-Dichlorobe...		1.658	1.330	1.468	1.492	1.276	1.388	1.292	1.415	9.58
14)		1,2-Dichlorobe...		1.687	1.232	1.471	1.533	1.241	1.653	1.265	1.440	13.57
15)		Benzyl Alcohol		1.658	1.295	1.521	1.648	1.418	1.667	1.381	1.513	10.00
16)		2,2'-oxybis(1-...		2.046	1.255	1.736	2.045	1.302	2.499	1.284	1.738	27.75
17)		2-Methylphenol		1.578	1.258	1.441	1.708	1.211	1.925	1.213	1.476	18.62
18)		Hexachloroethane		0.612	0.424	0.536	0.831	0.450	0.747	0.469	0.581	26.96
19)	P	n-Nitroso-di-n...	1.814	1.617	1.178	1.313	2.247	1.197	1.944	1.153	1.558	26.50
20)		3+4-Methylphenols		2.098	1.630	1.929	3.089	1.638	2.721	1.683	2.113	27.32
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.606	0.566	0.465	0.595	0.506	0.568		0.551	9.91
23)	S	Nitrobenzene-d5		0.479	0.439	0.393	0.504	0.431	0.478		0.454	8.94
24)		Nitrobenzene		0.485	0.437	0.390	0.495	0.434	0.475		0.453	8.77
25)		Isophorone		0.958	0.823	0.740	0.946	0.778	0.883		0.855	10.47
26)	C	2-Nitrophenol		0.196	0.184	0.161	0.209	0.182	0.202		0.189	8.97
27)		2,4-Dimethylph...		0.338	0.303	0.275	0.345	0.310	0.326		0.316	8.15
28)		bis(2-Chloroet...		0.471	0.389	0.443	0.482	0.395	0.452		0.439	8.82
29)	C	2,4-Dichloroph...		0.319	0.345	0.357	0.354	0.336	0.339	0.288	0.334	7.14
30)		1,2,4-Trichlor...		0.361	0.391	0.375	0.389	0.370	0.363	0.357	0.372	3.66
31)		Naphthalene		1.139	1.024	1.095	1.102	1.010	1.052	1.025	1.064	4.57
32)		Benzoic acid		0.077	0.114	0.146	0.209	0.178	0.208	0.137	0.153	32.18
33)		4-Chloroaniline		0.498	0.451	0.499	0.515	0.463	0.485	0.466	0.482	4.83
34)	C	Hexachlorobuta...		0.264	0.311	0.263	0.269	0.282	0.254	0.253	0.271	7.37
35)		Caprolactam		0.110	0.116	0.122	0.124	0.141	0.077	0.110	0.114	17.19
36)	C	4-Chloro-3-met...		0.388	0.351	0.390	0.395	0.560	0.250	0.359	0.385	23.89
37)		2-Methylnaphth...		0.552	0.845	0.839	0.850	1.211	0.595	0.779	0.810	26.58
38)		1-Methylnaphth...		0.590	0.759	0.803	0.796	1.128	0.615	0.725	0.774	22.89

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG041823.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.636	0.699	0.751	0.692	0.645	0.593	0.697	0.673	7.72
41)	P	Hexachlorocycl...		0.242	0.325	0.351	0.315	0.319		0.310	13.05
42)	S	2,4,6-Tribromo...	0.413	0.349	0.356	0.326	0.300	0.313	0.317	0.339	11.25
43)	C	2,4,6-Trichlor...	0.430	0.459	0.479	0.458	0.415	0.423	0.439	0.443	5.16
44)		2,4,5-Trichlor...	0.532	0.514	0.571	0.520	0.470	0.497	0.523	0.518	6.01
45)	S	2-Fluorobiphenyl	1.589	1.515	1.698	1.513	1.403	1.438	1.471	1.518	6.55
46)		1,1'-Biphenyl	1.794	1.482	1.704	1.563	1.414	1.483	1.508	1.564	8.72
47)		2-Chloronaphth...	1.041	1.112	1.258	1.163	1.067	1.097	1.133	1.124	6.36
48)		2-Nitroaniline	0.318	0.357	0.420	0.412	0.372	0.386	0.394	0.380	9.18
49)		Acenaphthylene	1.662	1.746	2.043	1.906	1.731	1.780	1.824	1.813	7.00
50)		Dimethylphthalate	1.771	1.606	1.766	1.608	1.498	1.532	1.539	1.617	6.85
51)		2,6-Dinitrotol...	0.315	0.355	0.391	0.345	0.328	0.332	0.336	0.343	7.16
52)	C	Acenaphthene	1.195	1.097	1.298	1.174	1.076	1.126	1.104	1.153	6.68
53)		3-Nitroaniline	0.310	0.348	0.404	0.368	0.336	0.355	0.345	0.352	8.22
54)	P	2,4-Dinitrophenol		0.146	0.191	0.198	0.194	0.208	0.218	0.192	12.98
55)		Dibenzofuran	1.714	1.896	2.104	1.932	1.736	1.787	1.808	1.854	7.33
56)	P	4-Nitrophenol	0.166	0.215	0.250	0.269	0.239	0.252	0.252	0.235	14.68
57)		2,4-Dinitrotol...	0.428	0.496	0.541	0.495	0.465	0.483	0.479	0.484	7.13
58)		Fluorene	2.066	1.603	1.718	1.550	1.435	1.454	1.478	1.615	13.75
59)		2,3,4,6-Tetrac...	0.372	0.434	0.463	0.432	0.428	0.435	0.437	0.429	6.44
60)		Diethylphthalate	1.814	1.626	1.792	1.653	1.526	1.553	1.546	1.644	7.16
61)		4-Chlorophenyl...	1.213	0.937	0.971	0.889	0.822	0.846	0.856	0.933	14.36
62)		4-Nitroaniline	0.503	0.345	0.433	0.379	0.351	0.363	0.351	0.389	15.02
63)		Azobenzene	2.246	1.436	1.771	1.625	1.493	1.517	1.525	1.659	16.93
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.115	0.120	0.170	0.129	0.140	0.139	0.135	14.66
66)	c	n-Nitrosodiphe...	0.604	0.538	0.591	0.751	0.544	0.576	0.554	0.594	12.36
67)		4-Bromophenyl-...	0.240	0.253	0.244	0.318	0.232	0.248	0.238	0.253	11.55
68)		Hexachlorobenzene	0.274	0.268	0.259	0.334	0.248	0.258	0.252	0.270	10.91
69)		Atrazine	0.214	0.219	0.236	0.280	0.199	0.214	0.200	0.223	12.57
70)	C	Pentachlorophenol		0.111	0.129	0.159	0.144	0.159	0.156	0.143	13.64
71)		Phenanthrene	1.057	1.000	1.077	1.063	1.007	1.059	0.998	1.037	3.29
72)		Anthracene	1.108	1.047	1.099	1.123	1.024	1.078	1.020	1.071	3.86
73)		Carbazole	0.955	0.892	0.953	0.799	0.884	0.913	0.881	0.897	5.87
74)		Di-n-butylphth...	1.119	0.994	1.139	0.932	1.070	1.147	0.954	1.051	8.59
75)	C	Fluoranthene	1.231	1.246	1.261	1.159	1.175	1.256	1.198	1.218	3.37
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.737	0.631	0.642	0.373	0.469	0.581	0.410	0.549	24.49
78)		Pyrene	1.570	1.406	1.674	1.109	1.415	1.902	1.407	1.497	16.68
79)	S	Terphenyl-d14	1.368	1.308	1.456	1.018	1.231	1.634	1.239	1.322	14.64
80)		Butylbenzylpht...	0.554	0.469	0.606	0.431	0.534	0.710	0.547	0.550	16.57
81)		Benzo(a)anthra...	1.461	1.398	1.540	1.458	1.331	1.440	1.377	1.429	4.76
82)		3,3'-Dichlorob...	0.499	0.500	0.548	0.446	0.454	0.496	0.454	0.485	7.50
83)		Chrysene	1.401	1.306	1.248	1.378	1.246	1.369	1.294	1.320	4.79
84)		Bis(2-ethylhex...	0.829	0.670	0.873	0.709	0.740	0.697	0.765	0.755	9.74
85)	c	Di-n-octyl pht...	1.324	1.090	1.412	1.349	1.235	1.241	1.264	1.274	8.09

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
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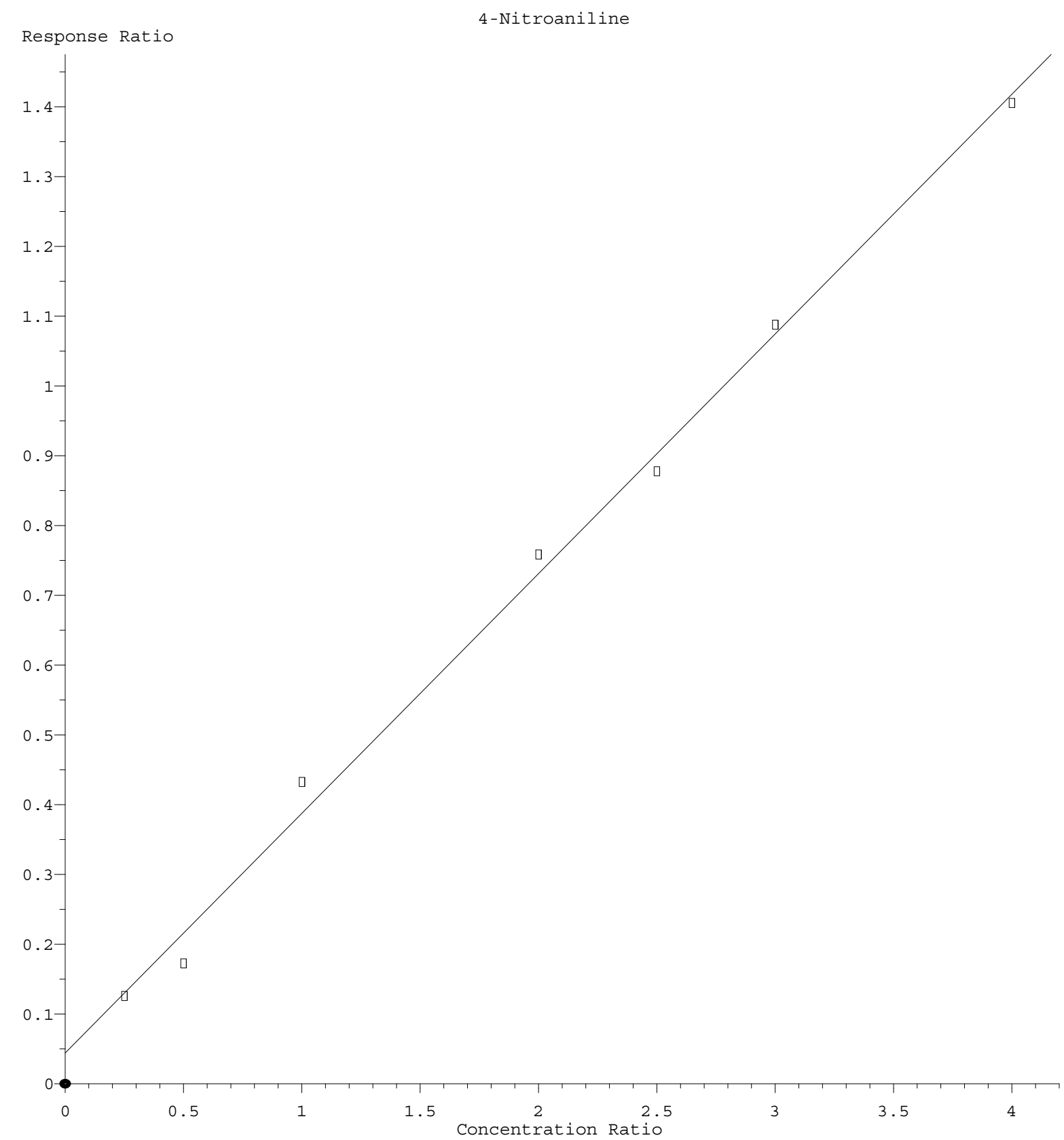
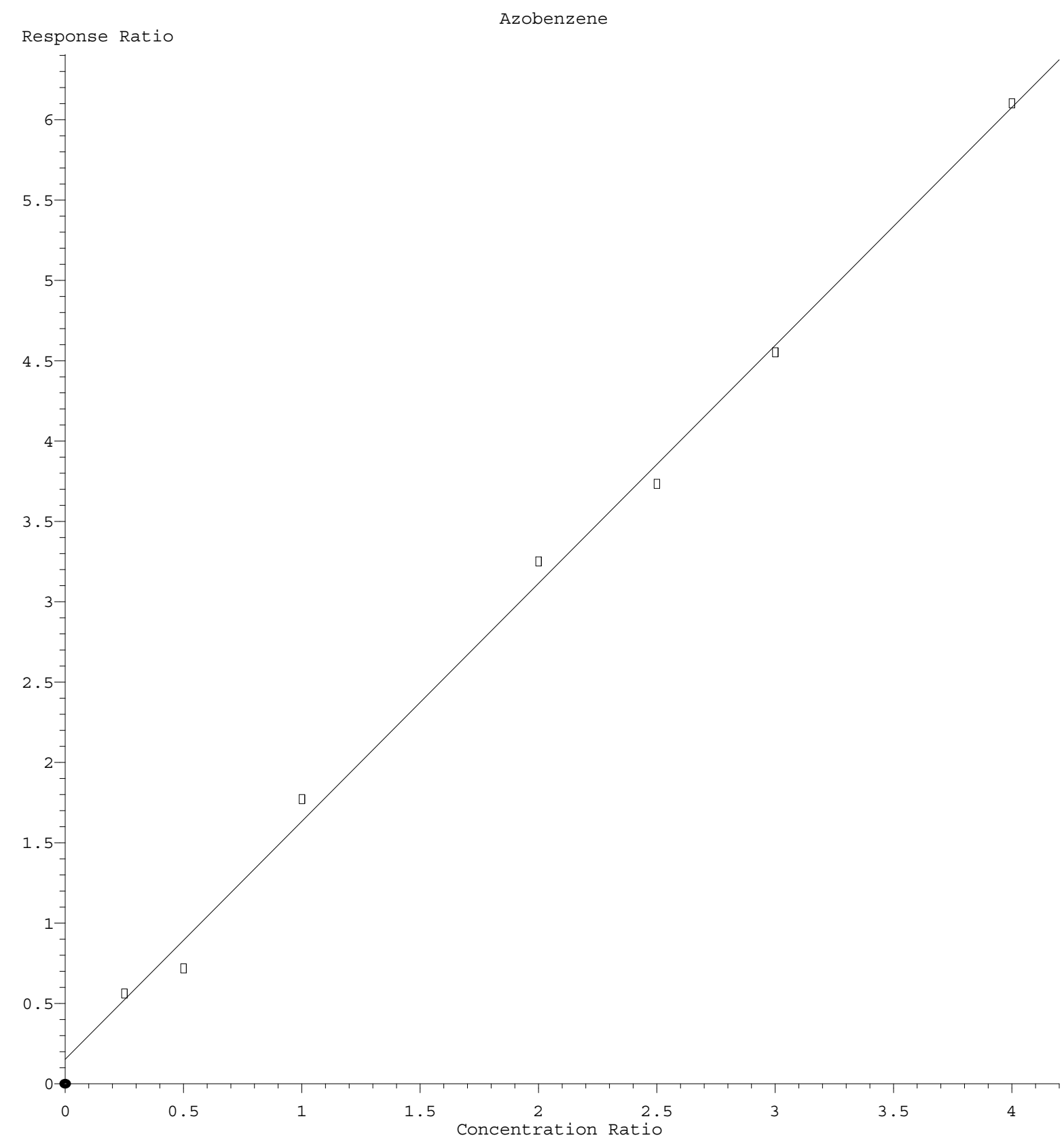
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.548	1.485	1.502	1.519	1.422	1.470	1.481	1.490	2.68
88)		Benzo(b)fluora...	1.315	1.253	1.326	1.312	1.218	1.281	1.247	1.279	3.20
89)		Benzo(k)fluora...	1.351	1.293	1.307	1.352	1.218	1.263	1.274	1.294	3.71
90)	C	Benzo(a)pyrene	1.278	1.198	1.259	1.282	1.176	1.230	1.221	1.235	3.26
91)		Dibenzo(a,h)an...	1.273	1.272	1.258	1.287	1.187	1.234	1.238	1.250	2.69
92)		Benzo(g,h,i)pe...	1.209	1.215	1.211	1.225	1.124	1.183	1.186	1.193	2.86

(#) = Out of Range



Response = 3.437e-001 * Amt + 4.367e-002
Coef of Det (r^2) = 0.995864 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG041823.M
Calibration Table Last Updated: Wed Apr 19 04:21:14 2023



Response = 1.481e+000 * Amt + 1.518e-001
Coef of Det (r^2) = 0.996567 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG041823.M
Calibration Table Last Updated: Wed Apr 19 04:21:14 2023