Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG082725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 27 18:02:44 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BG064207.D 5 =BG064208.D 10 =BG064209.D 20 =BG064210.D 40 =BG064211.D 50 =BG064212.D 60 =BG064213.D 80 =BG0642
14.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.588	0.487	0.497	0.410	0.436	0.482	0.467	0.481	11.72
3)		Pyridine		1.379	1.290	1.365	1.250	1.335	1.442	1.423	1.355	5.08
4)		n-Nitrosodimet...			0.819	0.935	0.846	0.911	0.977	0.975	0.911	7.21
5)	S	2-Fluorophenol		0.976	0.983	1.078	1.022	1.030	1.110	1.109	1.044	5.34
6)		Aniline		2.026	2.012	2.112	2.048	2.088	2.236	2.145	2.095	3.72
7)	S	Phenol-d6		1.446	1.432	1.605	1.520	1.533	1.670	1.599	1.544	5.63
8)		2-Chlorophenol		1.316	1.215	1.377	1.348	1.318	1.434	1.378	1.341	5.13
9)		Benzaldehyde			1.053	1.081	1.307	1.206	1.545		1.238	16.09
10)	C	Phenol		1.574	1.540	1.773	1.687	1.723	1.837	1.778	1.702	6.46
11)		bis(2-Chloroet...		1.194	1.150	1.292	1.193	1.216	1.307	1.255	1.230	4.65
12)		1,3-Dichlorobe...		1.406	1.348	1.482	1.400	1.374	1.496	1.397	1.415	3.87
13)	C	1,4-Dichlorobe...		1.482	1.387	1.479	1.414	1.425	1.533	1.480	1.457	3.44
14)		1,2-Dichlorobe...		1.433	1.335	1.409	1.389	1.374	1.510	1.410	1.409	3.86
15)		Benzyl Alcohol			1.248	1.404	1.392	1.406	1.544	1.472	1.411	6.99
16)		2,2'-oxybis(1-...		2.923	2.721	2.942	2.751	2.744	2.954	2.794	2.833	3.63
17)		2-Methylphenol		1.193	1.096	1.286	1.206	1.243	1.284	1.278	1.227	5.60
18)		Hexachloroethane		0.526	0.511	0.580	0.554	0.563	0.612	0.566	0.559	6.02
19)	P	n-Nitroso-di-n...	1.091	1.098	1.098	1.262	1.145	1.164	1.267	1.218	1.168	6.26
20)		3+4-Methylphenols			1.569	1.761	1.694	1.718	1.895	1.755	1.732	6.12
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.528	0.511	0.507	0.484	0.489	0.496	0.488	0.500	3.14
23)	S	Nitrobenzene-d5		0.343	0.340	0.360	0.349	0.358	0.372	0.358	0.354	3.16
24)		Nitrobenzene		0.365	0.347	0.367	0.367	0.370	0.378	0.382	0.368	3.03
25)		Isophorone		0.753	0.773	0.743	0.720	0.736	0.763	0.730	0.746	2.51
26)	C	2-Nitrophenol		0.147	0.146	0.148	0.160	0.164	0.175	0.171	0.159	7.45
27)		2,4-Dimethylph...		0.290	0.294	0.286	0.277	0.282	0.296	0.285	0.287	2.31
28)		bis(2-Chloroet...		0.415	0.418	0.400	0.386	0.393	0.405	0.392	0.401	2.99
29)	C	2,4-Dichloroph...		0.277	0.270	0.302	0.295	0.301	0.322	0.305	0.296	5.89
30)		1,2,4-Trichlor...		0.328	0.319	0.320	0.307	0.305	0.319	0.310	0.315	2.65
31)		Naphthalene		1.053	1.043	1.027	0.992	1.004	1.027	1.004	1.021	2.19
32)		Benzoic acid			0.191	0.229	0.248	0.258	0.273	0.259	0.243	12.17
33)		4-Chloroaniline		0.356	0.377	0.402	0.409	0.406	0.426	0.417	0.399	6.12
34)	C	Hexachlorobuta...		0.237	0.229	0.235	0.226	0.224	0.237	0.229	0.231	2.32
35)		Caprolactam			0.121	0.114	0.118	0.123	0.117	0.119	0.118	2.79
36)	C	4-Chloro-3-met...		0.371	0.376	0.381	0.385	0.386	0.406	0.392	0.385	2.95
37)		2-Methylnaphth...		0.742	0.740	0.764	0.739	0.764	0.779	0.759	0.755	2.03
38)		1-Methylnaphth...		0.747	0.754	0.762	0.733	0.741	0.766	0.742	0.749	1.60

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.553	0.544	0.559	0.539	0.550	0.571	0.550	0.552	1.91
41)	P	Hexachlorocycl...		0.202	0.237	0.266	0.274	0.287	0.282	0.258	12.63
42)	S	2,4,6-Tribromo...	0.248	0.259	0.270	0.264	0.268	0.260	0.256	0.261	2.90
43)	C	2,4,6-Trichlor...	0.366	0.356	0.394	0.382	0.379	0.393	0.385	0.379	3.67
44)		2,4,5-Trichlor...	0.424	0.398	0.430	0.418	0.416	0.433	0.421	0.420	2.72
45)	S	2-Fluorobiphenyl	1.305	1.302	1.343	1.203	1.227	1.255	1.215	1.264	4.18
46)		1,1'-Biphenyl	1.446	1.429	1.491	1.363	1.387	1.435	1.377	1.418	3.17
47)		2-Chloronaphth...	1.026	1.063	1.119	1.029	1.050	1.081	1.041	1.058	3.11
48)		2-Nitroaniline	0.310	0.323	0.366	0.380	0.393	0.394	0.402	0.367	9.98
49)		Acenaphthylene	1.515	1.551	1.642	1.527	1.586	1.607	1.570	1.571	2.84
50)		Dimethylphthalate	1.595	1.504	1.525	1.471	1.485	1.474	1.451	1.501	3.20
51)		2,6-Dinitrotol...	0.229	0.253	0.289	0.294	0.304	0.306	0.308	0.283	10.77
52)	C	Acenaphthene	1.091	1.102	1.151	1.081	1.104	1.115	1.078	1.103	2.27
53)		3-Nitroaniline	0.220	0.258	0.307	0.317	0.319	0.314	0.310	0.292	13.01
54)	P	2,4-Dinitrophenol		0.098	0.140	0.183	0.188	0.188	0.189	0.164	22.96
55)		Dibenzofuran	1.825	1.781	1.810	1.689	1.738	1.725	1.685	1.750	3.21
56)	P	4-Nitrophenol		0.209	0.235	0.266	0.281	0.261	0.265	0.253	10.31
57)		2,4-Dinitrotol...	0.366	0.392	0.438	0.454	0.476	0.460	0.457	0.435	9.29
58)		Fluorene	1.464	1.432	1.473	1.423	1.425	1.413	1.380	1.430	2.19
59)		2,3,4,6-Tetrac...	0.384	0.374	0.397	0.404	0.405	0.404	0.414	0.398	3.49
60)		Diethylphthalate	1.669	1.713	1.619	1.583	1.617	1.538	1.537	1.611	4.04
61)		4-Chlorophenyl...	0.785	0.765	0.762	0.711	0.721	0.725	0.696	0.738	4.43
62)		4-Nitroaniline	0.242	0.300	0.320	0.333	0.344	0.330	0.343	0.316	11.32
63)		Azobenzene	1.462	1.427	1.420	1.382	1.418	1.407	1.392	1.415	1.83
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.087	0.107	0.117	0.121	0.125	0.127	0.114	13.40
66)	c	n-Nitrosodiphe...	0.566	0.516	0.568	0.517	0.535	0.556	0.530	0.541	4.09
67)		4-Bromophenyl-...	0.208	0.206	0.216	0.204	0.210	0.219	0.210	0.210	2.45
68)		Hexachlorobenzene	0.225	0.219	0.236	0.215	0.224	0.237	0.226	0.226	3.57
69)		Atrazine	0.239	0.233	0.236	0.223	0.220	0.226	0.224	0.229	3.20
70)	C	Pentachlorophenol		0.113	0.138	0.146	0.150	0.158	0.155	0.143	11.39
71)		Phenanthrene	1.077	1.026	1.077	0.990	1.018	1.038	1.004	1.033	3.27
72)		Anthracene	1.079	1.036	1.088	1.009	1.026	1.063	1.023	1.046	2.90
73)		Carbazole	0.962	0.941	0.970	0.905	0.923	0.929	0.911	0.934	2.66
74)		Di-n-butylphth...	1.157	1.165	1.190	1.085	1.128	1.107	1.123	1.137	3.16
75)	C	Fluoranthene	1.296	1.275	1.286	1.174	1.217	1.195	1.200	1.235	4.03
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.483	0.521	0.412	0.374	0.318	0.376	0.414	18.16
78)		Pyrene	1.273	1.257	1.296	1.217	1.221	1.256	1.206	1.246	2.64
79)	S	Terphenyl-d14	0.988	0.982	1.007	0.904	0.916	0.935	0.895	0.947	4.74
80)		Butylbenzylpht...	0.438	0.433	0.480	0.463	0.475	0.500	0.484	0.468	5.25
81)		Benzo(a)anthra...	1.282	1.288	1.327	1.250	1.251	1.297	1.253	1.278	2.26
82)		3,3'-Dichlorob...		0.398	0.426	0.411	0.409	0.415	0.415	0.412	2.18
83)		Chrysene	1.234	1.265	1.275	1.186	1.200	1.247	1.197	1.229	2.88
84)		Bis(2-ethylhex...	0.676	0.693	0.721	0.696	0.697	0.731	0.705	0.703	2.59
85)	c	Di-n-octyl pht...		1.206	1.258	1.215	1.238	1.280	1.248	1.241	2.20

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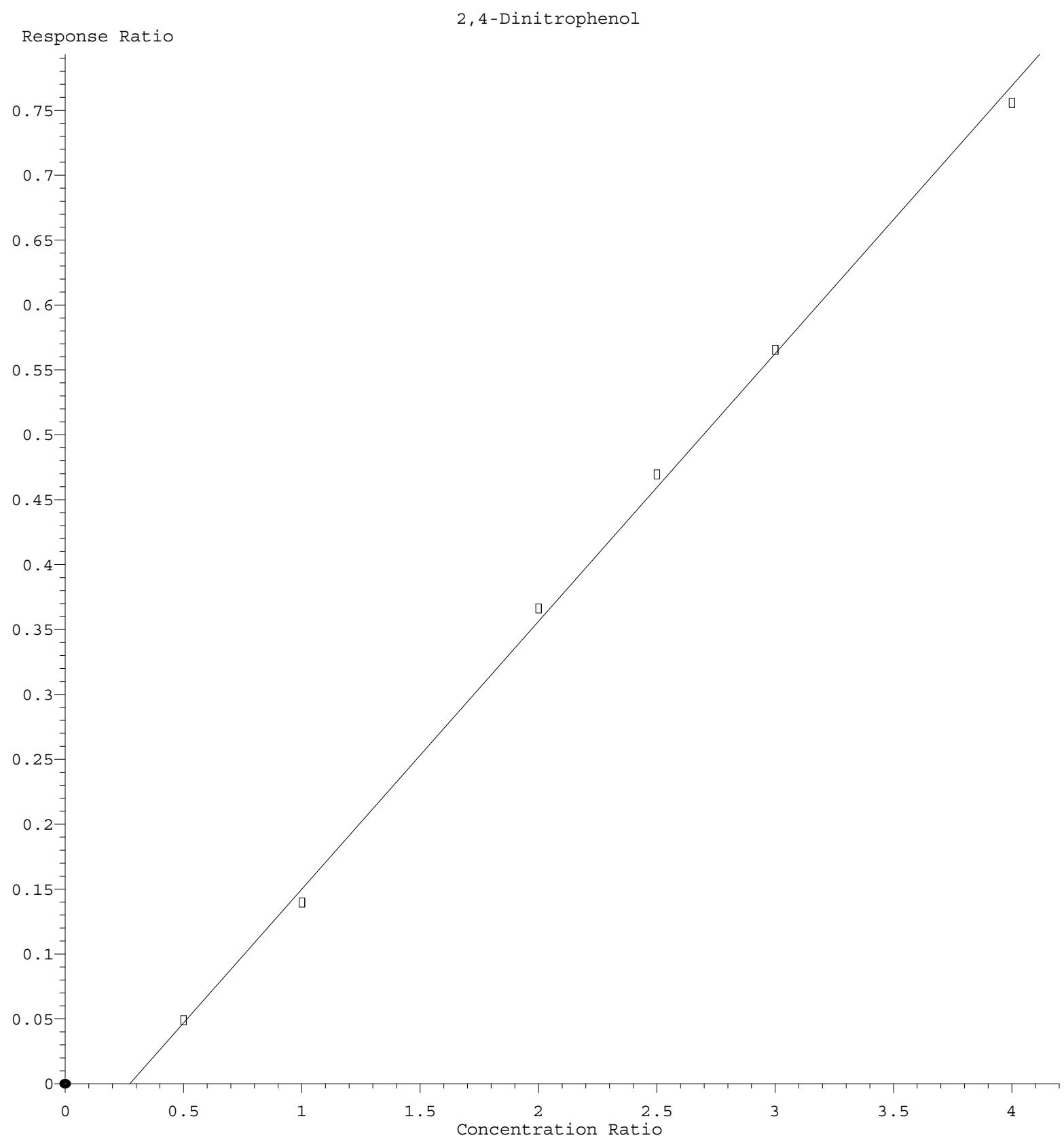
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.332	1.265	1.392	1.347	1.361	1.408	1.373	1.354	3.46
88)		Benzo(b)fluora...	1.135	1.070	1.147	1.116	1.116	1.142	1.139	1.124	2.36
89)		Benzo(k)fluora...	1.118	1.117	1.213	1.121	1.165	1.177	1.169	1.154	3.17
90)	C	Benzo(a)pyrene	1.041	0.993	1.061	1.030	1.060	1.078	1.066	1.047	2.71
91)		Dibenzo(a,h)an...	1.052	1.032	1.113	1.094	1.113	1.134	1.109	1.093	3.35
92)		Benzo(g,h,i)pe...	1.056	1.007	1.075	1.043	1.060	1.085	1.066	1.056	2.40

(#) = Out of Range



Response = 2.064e-001 * Amt - 5.640e-002
Coef of Det (r^2) = 0.998808 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG082725.M
Calibration Table Last Updated: Wed Aug 27 18:02:44 2025