Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG040725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 07 17:00:17 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BG064196.D 5 =BG064197.D 10 =BG064198.D 20 =BG064199.D 40 =BG064200.D 50 =BG064204.D 60 =BG064202.D 80 =BG0642
03.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.556	0.503	0.522	0.473	0.476	0.445	0.474	0.493	7.52
3)		Pyridine		1.314	1.222	1.351	1.280	1.359	1.298	1.414	1.320	4.69
4)		n-Nitrosodimet...		1.043	0.906	0.994	0.988	1.118	0.978	1.075	1.015	6.91
5)	S	2-Fluorophenol		1.152	1.153	1.305	1.227	1.306	1.268	1.293	1.244	5.45
6)		Aniline		1.679	1.644	1.847	1.653	1.621	1.544	1.391	1.626	8.49
7)	S	Phenol-d6		1.596	1.610	1.833	1.771	1.865	1.793	1.857	1.761	6.41
8)		2-Chlorophenol		1.292	1.244	1.456	1.406	1.445	1.401	1.477	1.389	6.32
9)		Benzaldehyde		1.192	1.094	1.107	0.916	0.963	0.756		1.004	15.73
10)	C	Phenol		1.539	1.591	1.785	1.761	1.874	1.784	1.883	1.745	7.59
11)		bis(2-Chloroet...		1.290	1.337	1.404	1.355	1.353	1.338	1.381	1.351	2.66
12)		1,3-Dichlorobe...		1.533	1.422	1.584	1.517	1.499	1.471	1.526	1.507	3.39
13)	C	1,4-Dichlorobe...		1.558	1.450	1.578	1.491	1.525	1.487	1.541	1.519	2.95
14)		1,2-Dichlorobe...		1.406	1.490	1.649	1.502	1.491	1.466	1.533	1.505	4.94
15)		Benzyl Alcohol		1.361	1.410	1.629	1.518	1.603	1.578	1.623	1.532	7.00
16)		2,2'-oxybis(1-...		3.060	2.949	3.113	2.989	3.031	2.922	3.048	3.016	2.22
17)		2-Methylphenol		1.220	1.186	1.265	1.252	1.278	1.273	1.317	1.256	3.39
18)		Hexachloroethane		0.567	0.552	0.617	0.597	0.609	0.600	0.610	0.593	4.11
19)	P	n-Nitroso-di-n...	1.176	1.358	1.367	1.370	1.308	1.323	1.307	1.340	1.319	4.76
20)		3+4-Methylphenols		1.676	1.645	1.879	1.783	1.813	1.774	1.831	1.771	4.72
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.545	0.536	0.569	0.543	0.536	0.552	0.547	0.547	2.07
23)	S	Nitrobenzene-d5		0.377	0.377	0.403	0.408	0.404	0.416	0.421	0.401	4.37
24)		Nitrobenzene		0.378	0.374	0.419	0.407	0.398	0.411	0.408	0.399	4.34
25)		Isophorone		0.750	0.717	0.758	0.740	0.721	0.728	0.728	0.735	2.07
26)	C	2-Nitrophenol		0.142	0.153	0.169	0.174	0.171	0.177	0.184	0.167	8.79
27)		2,4-Dimethylph...		0.210	0.220	0.236	0.228	0.228	0.235	0.235	0.227	4.28
28)		bis(2-Chloroet...		0.422	0.412	0.440	0.428	0.418	0.423	0.426	0.424	2.10
29)	C	2,4-Dichloroph...		0.284	0.270	0.307	0.300	0.301	0.317	0.315	0.299	5.69
30)		1,2,4-Trichlor...		0.337	0.312	0.323	0.335	0.325	0.338	0.338	0.330	3.07
31)		Naphthalene		1.123	1.066	1.104	1.083	1.076	1.094	1.087	1.090	1.74
32)		Benzoic acid			0.171	0.204	0.245	0.259	0.266	0.272	0.236	17.00
33)		4-Chloroaniline		0.387	0.383	0.414	0.404	0.391	0.393	0.390	0.395	2.72
34)	C	Hexachlorobuta...		0.214	0.231	0.242	0.231	0.226	0.235	0.233	0.230	3.73
35)		Caprolactam		0.119	0.106	0.114	0.118	0.114	0.112	0.111	0.113	3.80
36)	C	4-Chloro-3-met...		0.408	0.388	0.402	0.405	0.398	0.404	0.400	0.401	1.59
37)		2-Methylnaphth...		0.816	0.774	0.816	0.789	0.773	0.793	0.792	0.793	2.21
38)		1-Methylnaphth...		0.809	0.774	0.813	0.784	0.754	0.784	0.783	0.786	2.57

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.577	0.570	0.606	0.602	0.572	0.612	0.608	0.593	3.15
41)	P	Hexachlorocycl...	0.162	0.176	0.220	0.232	0.221	0.242	0.238	0.213	14.76
42)	S	2,4,6-Tribromo...	0.256	0.267	0.269	0.274	0.268	0.272	0.273	0.269	2.25
43)	C	2,4,6-Trichlor...	0.334	0.365	0.373	0.390	0.389	0.397	0.399	0.378	6.16
44)		2,4,5-Trichlor...	0.380	0.413	0.425	0.438	0.426	0.437	0.450	0.424	5.38
45)	S	2-Fluorobiphenyl	1.371	1.364	1.426	1.400	1.329	1.371	1.366	1.375	2.22
46)		1,1'-Biphenyl	1.529	1.534	1.576	1.570	1.517	1.569	1.586	1.554	1.75
47)		2-Chloronaphth...	1.104	1.108	1.135	1.131	1.083	1.139	1.140	1.120	1.96
48)		2-Nitroaniline	0.344	0.390	0.407	0.422	0.423	0.444	0.442	0.410	8.52
49)		Acenaphthylene	1.733	1.725	1.778	1.795	1.718	1.777	1.788	1.759	1.85
50)		Dimethylphthalate	1.608	1.547	1.518	1.562	1.487	1.511	1.504	1.534	2.71
51)		2,6-Dinitrotol...	0.271	0.288	0.318	0.329	0.325	0.334	0.329	0.313	7.72
52)	C	Acenaphthene	1.201	1.144	1.187	1.176	1.135	1.178	1.179	1.172	2.00
53)		3-Nitroaniline	0.262	0.281	0.310	0.334	0.307	0.327	0.326	0.307	8.57
54)	P	2,4-Dinitrophenol		0.113	0.154	0.180	0.198	0.197	0.209	0.175	20.65
55)		Dibenzofuran	1.891	1.889	1.904	1.917	1.856	1.897	1.886	1.891	0.99
56)	P	4-Nitrophenol	0.191	0.211	0.248	0.274	0.262	0.276	0.277	0.249	13.83
57)		2,4-Dinitrotol...	0.399	0.415	0.442	0.471	0.459	0.467	0.464	0.445	6.31
58)		Fluorene	1.592	1.510	1.488	1.503	1.451	1.497	1.460	1.500	3.07
59)		2,3,4,6-Tetrac...	0.383	0.397	0.415	0.424	0.411	0.416	0.425	0.410	3.70
60)		Diethylphthalate	1.641	1.645	1.622	1.680	1.597	1.649	1.630	1.638	1.57
61)		4-Chlorophenyl...	0.787	0.754	0.750	0.756	0.729	0.746	0.741	0.752	2.37
62)		4-Nitroaniline	0.255	0.280	0.306	0.337	0.327	0.342	0.339	0.312	10.82
63)		Azobenzene	1.613	1.610	1.598	1.654	1.561	1.607	1.598	1.606	1.71
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.087	0.092	0.116	0.124	0.131	0.136	0.137	0.117	17.43
66)	c	n-Nitrosodiphe...	0.573	0.569	0.598	0.597	0.580	0.588	0.583	0.584	1.93
67)		4-Bromophenyl-...	0.223	0.213	0.224	0.228	0.226	0.229	0.226	0.224	2.40
68)		Hexachlorobenzene	0.248	0.233	0.247	0.242	0.243	0.245	0.240	0.243	2.03
69)		Atrazine	0.205	0.194	0.168	0.128	0.186			0.176	17.17
70)	C	Pentachlorophenol	0.098	0.132	0.158	0.168	0.165	0.171	0.172	0.152	18.03
71)		Phenanthrene	1.090	1.049	1.114	1.089	1.067	1.093	1.052	1.079	2.20
72)		Anthracene	1.034	1.057	1.107	1.101	1.070	1.089	1.062	1.074	2.44
73)		Carbazole	0.930	0.953	1.002	1.007	0.992	1.010	0.975	0.981	3.09
74)		Di-n-butylphth...	1.166	1.208	1.258	1.260	1.234	1.277	1.211	1.231	3.12
75)	C	Fluoranthene	1.289	1.278	1.340	1.310	1.271	1.312	1.246	1.292	2.41
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.242	0.223	0.143	0.361	0.305	0.212	0.360	0.264	30.91
78)		Pyrene	1.315	1.236	1.309	1.315	1.269	1.279	1.275	1.285	2.28
79)	S	Terphenyl-d14	1.023	0.990	1.052	1.023	0.989	0.978	0.963	1.003	3.09
80)		Butylbenzylpht...	0.477	0.478	0.531	0.549	0.536	0.547	0.540	0.523	5.99
81)		Benzo(a)anthra...	1.270	1.242	1.321	1.323	1.298	1.297	1.304	1.294	2.22
82)		3,3'-Dichlorob...	0.413	0.418	0.445	0.459	0.439	0.436	0.442	0.436	3.61
83)		Chrysene	1.303	1.264	1.266	1.277	1.253	1.261	1.259	1.269	1.31
84)		Bis(2-ethylhex...	0.733	0.758	0.811	0.806	0.780	0.796	0.781	0.781	3.55
85)	c	Di-n-octyl pht...	1.306	1.272	1.369	1.387	1.369	1.389	1.385	1.354	3.40

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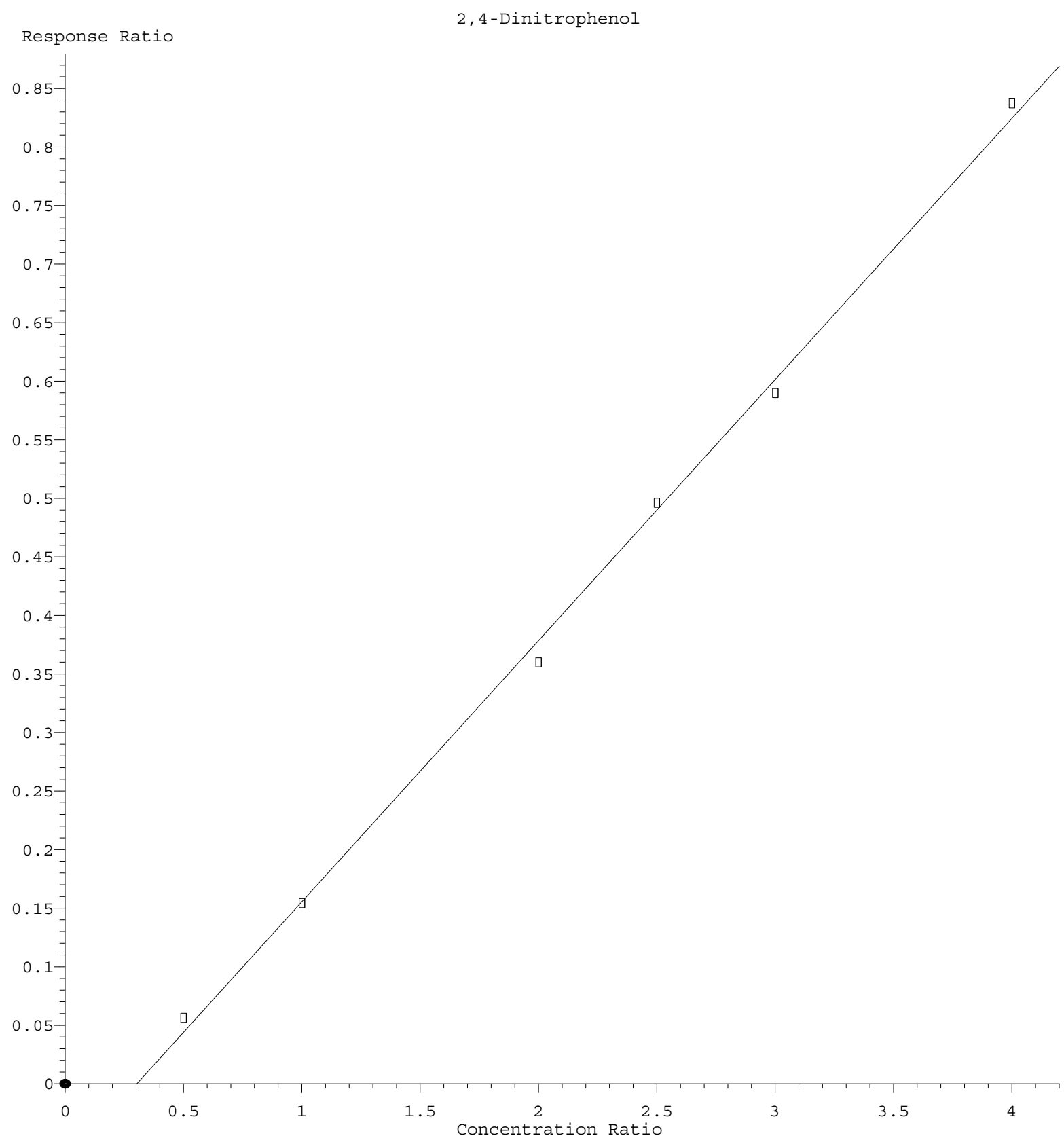
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.354	1.322	1.407	1.398	1.369	1.432	1.410	1.384	2.75
88)		Benzo(b)fluora...	1.189	1.154	1.274	1.256	1.243	1.271	1.233	1.232	3.63
89)		Benzo(k)fluora...	1.228	1.162	1.228	1.190	1.161	1.233	1.226	1.204	2.68
90)	C	Benzo(a)pyrene	0.995	1.041	1.109	1.080	1.069	1.132	1.103	1.076	4.32
91)		Dibenzo(a,h)an...	1.072	1.079	1.163	1.160	1.140	1.206	1.167	1.141	4.30
92)		Benzo(g,h,i)pe...	1.087	1.108	1.198	1.164	1.151	1.199	1.178	1.155	3.75

(#) = Out of Range



Response = 2.230e-001 * Amt - 6.747e-002
Coef of Det (r^2) = 0.998000 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG040725.M
Calibration Table Last Updated: Mon Apr 07 17:00:17 2025