Method Path : Z:\HPCHEM1\BNA F\METHODS\
Method File : 8270-BF031518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Mar 15 17:34:32 2018
Response Via : Initial Calibration

Calibration Files
2.5 =BF103667.D 10 =BF103668.D 25 =BF103669.D
40 =BF103670.D 50 =BF103671.D 60 =BF103672.D

		Compound	2.5	10	25	40	50	60	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------	ISTD	----------					
2)		1,4-Dioxane	0.659	0.668	0.641	0.659	0.645	0.636	0.647	2.33
3)		Pyridine	1.858	1.769	1.766	1.785	1.786	1.751	1.781	2.08
4)		n-Nitrosodimethyl	0.728	0.637	0.638	0.657	0.657	0.642	0.657	5.02
5)	S	2-Fluorophenol	2.802	2.817	2.670	2.658	2.567	2.490	2.630	5.85
6)		Aniline	2.366	2.407	2.266	2.322	2.276	2.226	2.297	3.09
7)	S	Phenol-d6	3.461	3.476	3.268	3.226	3.147	3.027	3.217	6.47
8)		2-Chlorophenol	1.425	1.468	1.387	1.397	1.364	1.328	1.377	4.62
9)		Benzaldehyde	1.160	1.174	1.070	1.054	1.023	0.980	1.057	8.25
10)	C	Phenol	1.878	1.817	1.727	1.702	1.679	1.612	1.709	6.58
11)		bis(2-Chloroethyl	1.511	1.511	1.405	1.401	1.385	1.347	1.411	5.30
12)		1,3-Dichlorobenze	1.728	1.722	1.569	1.567	1.529	1.465	1.569	7.77
13)	C	1,4-Dichlorobenze	1.796	1.688	1.588	1.577	1.521	1.465	1.576	8.45
14)		1,2-Dichlorobenze	1.635	1.627	1.496	1.453	1.426	1.341	1.463	9.42
15)		Benzyl Alcohol	1.312	1.327	1.260	1.257	1.235	1.194	1.246	5.18
16)		2,2'-oxybis(1-Chl	2.161	2.165	2.006	2.006	1.965	1.897	2.007	6.02
17)		2-Methylphenol	1.266	1.301	1.242	1.232	1.216	1.181	1.227	4.16
18)		Hexachloroethane	0.548	0.577	0.557	0.565	0.564	0.539	0.555	2.95
19)	P	n-Nitroso-di-n-pr	1.109	1.133	1.047	1.022	0.996	0.964	1.031	6.83
20)		3+4-Methylphenols	1.657	1.717	1.607	1.574	1.540	1.450	1.557	7.96
21)	I	Naphthalene-d8	----------	ISTD	----------					
22)		Acetophenone	0.602	0.579	0.528	0.505	0.489	0.468	0.514	11.87
23)	S	Nitrobenzene-d5		0.448	0.541	0.601	0.621	0.628	0.574	12.00
24)		Nitrobenzene		0.293	0.335	0.351	0.357	0.349	0.337	6.91
25)		Isophorone	0.710	0.701	0.668	0.647	0.654	0.643	0.664	4.71
26)	C	2-Nitrophenol		0.055	0.085	0.112	0.129	0.137	0.110	30.95#
27)		2,4-Dimethylpheno	0.291	0.299	0.286	0.283	0.284	0.278	0.284	3.31
28)		bis(2-Chloroethox	0.433	0.431	0.408	0.398	0.392	0.385	0.402	5.98
29)	C	2,4-Dichloropheno	0.239	0.265	0.268	0.266	0.265	0.261	0.259	4.23
30)		1,2,4-Trichlorobe	0.335	0.323	0.306	0.297	0.292	0.282	0.300	7.91
31)		Naphthalene	1.187	1.117	1.030	0.987	0.962	0.931	1.010	11.08
32)		Benzoic acid		0.071	0.120	0.168	0.197	0.216	0.161	34.31
33)		4-Chloroaniline	0.458	0.458	0.434	0.426	0.416	0.399	0.424	7.15
34)	C	Hexachlorobutadie	0.187	0.180	0.170	0.164	0.158	0.153	0.165	9.46
35)		Caprolactam		0.082	0.086	0.090	0.092	0.090	0.089	4.59
36)	C	4-Chloro-3-methyl	0.283	0.294	0.294	0.289	0.288	0.283	0.285	3.42
37)		2-Methylnaphthale	0.729	0.706	0.664	0.635	0.616	0.593	0.641	10.12
38)	I	Acenaphthene-d10	----------	ISTD	----------					
39)		1,2,4,5-Tetrachlo	0.619	0.644	0.591	0.571	0.551	0.522	0.571	9.24
40)	P	Hexachlorocyclope	0.240	0.282	0.292	0.313	0.314	0.310	0.294	9.18
41)	S	2,4,6-Tribromophe	0.266	0.345	0.360	0.372	0.360	0.357	0.344	10.28
42)	C	2,4,6-Trichloroph	0.320	0.356	0.375	0.386	0.380	0.372	0.365	6.07
43)		2,4,5-Trichloroph	0.351	0.428	0.425	0.434	0.430	0.408	0.412	7.04
44)	S	2-Fluorobiphenyl		3.025	2.654	2.429	2.297	2.132	2.418	15.71
45)		1,1'-Biphenyl	1.912	1.874	1.720	1.658	1.594	1.492	1.668	10.96
46)		2-Chloronaphthale	1.482	1.464	1.353	1.324	1.257	1.225	1.325	8.96
47)		2-Nitroaniline		0.174	0.269	0.330	0.355	0.358	0.309	24.46
48)		Acenaphthylene	2.370	2.275	2.091	2.030	1.954	1.882	2.054	10.26
49)		Dimethylphthalate	1.678	1.647	1.549	1.528	1.485	1.408	1.526	7.26
50)		2,6-Dinitrotoluen		0.183	0.258	0.293	0.304	0.307	0.274	17.50
51)	C	Acenaphthene	1.348	1.352	1.251	1.221	1.170	1.125	1.220	8.78

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		Compound	2.5	10	25	40	50	60	Avg	%RSD
52)		3-Nitroaniline		0.237	0.310	0.355	0.362	0.360	0.331	15.23
53)	P	2,4-Dinitrophenol		0.022	0.035	0.052	0.066	0.075	0.057	45.10
54)		Dibenzofuran	2.003	1.927	1.784	1.731	1.653	1.572	1.742	10.18
55)	P	4-Nitrophenol		0.159	0.225	0.263	0.273	0.275	0.245	18.95
56)		2,4-Dinitrotoluen		0.192	0.300	0.364	0.383	0.386	0.336	23.44
57)		Fluorene	1.602	1.543	1.397	1.344	1.268	1.195	1.352	13.18
58)		2,3,4,6-Tetrachlo	0.224	0.297	0.301	0.315	0.307	0.304	0.292	10.58
59)		Diethylphthalate	1.679	1.658	1.545	1.517	1.457	1.405	1.514	8.29
60)		4-Chlorophenyl-ph	0.731	0.712	0.640	0.609	0.573	0.546	0.618	13.27
61)		4-Nitroaniline		0.229	0.297	0.342	0.349	0.347	0.319	15.13
62)		Azobenzene	1.759	1.711	1.553	1.538	1.477	1.398	1.540	9.96
63)	I	Phenanthrene-d10	----------	ISTD	----------					
64)		4,6-Dinitro-2-met		0.024	0.044	0.065	0.076	0.085	0.065	41.15
65)	c	n-Nitrosodiphenyl	0.734	0.746	0.701	0.683	0.660	0.628	0.681	7.39
66)		4-Bromophenyl-phe	0.213	0.223	0.211	0.208	0.201	0.194	0.205	5.90
67)		Hexachlorobenzene	0.259	0.255	0.240	0.234	0.225	0.216	0.234	7.83
68)		Atrazine	0.217	0.226	0.213	0.214	0.209	0.200	0.211	4.93
69)	C	Pentachlorophenol		0.109	0.131	0.143	0.141	0.142	0.135	9.76
70)		Phenanthrene	1.276	1.224	1.126	1.077	1.039	0.986	1.094	11.37
71)		Anthracene	1.283	1.231	1.146	1.100	1.059	1.010	1.111	10.65
72)		Carbazole	1.242	1.182	1.096	1.080	1.031	0.981	1.080	9.77
73)		Di-n-butylphthala	1.373	1.434	1.363	1.315	1.258	1.206	1.296	8.28
74)	C	Fluoranthene	1.321	1.242	1.150	1.130	1.068	1.019	1.127	11.10
75)	I	Chrysene-d12	----------	ISTD	----------					
76)		Benzidine	0.799	0.882	0.895	0.872	0.856	0.858	0.853	4.23
77)		Pyrene	1.585	1.542	1.485	1.433	1.424	1.426	1.469	4.91
78)	S	Terphenyl-d14	2.041	1.936	1.772	1.654	1.600	1.543	1.723	11.70
79)		Butylbenzylphthal		0.573	0.647	0.669	0.672	0.680	0.651	6.13
80)		Benzo(a)anthracen	1.353	1.344	1.288	1.261	1.231	1.215	1.266	5.34
81)		3,3'-Dichlorobenz	0.392	0.456	0.455	0.448	0.425	0.409	0.423	7.43
82)		Chrysene	1.355	1.306	1.240	1.188	1.158	1.128	1.207	8.25
83)		Bis(2-ethylhexyl)	0.816	0.959	0.985	0.970	0.956	0.943	0.930	6.49
84)	c	Di-n-octyl phthal	0.979	1.327	1.425	1.477	1.439	1.454	1.352	12.75
85)		Indeno(1,2,3-cd)p	1.189	1.190	1.051	1.068	0.985	0.958	1.054	9.82
86)	I	Perylene-d12	----------	ISTD	----------					
87)		Benzo(b)fluoranth	1.230	1.231	1.210	1.246	1.324	1.295	1.264	3.53
88)		Benzo(k)fluoranth	1.291	1.324	1.258	1.221	1.158	1.143	1.215	6.68
89)	C	Benzo(a)pyrene	1.162	1.188	1.135	1.149	1.139	1.127	1.146	1.97
90)		Dibenzo(a,h)anthr	1.037	1.069	0.978	0.984	0.971	0.942	0.992	4.50
91)		Benzo(g,h,i)peryl	1.032	1.040	0.929	0.944	0.926	0.923	0.965	5.21

(#) = Out of Range ### Number of calibration levels exceeded format ###