

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q1914 SAS No.: Q1914 SDG No.: Q1914
Instrument ID: BNA_P Calibration Date(s): 04/14/2025 04/14/2025
Calibration Time(s): 11:06 17:13

LAB FILE ID:		RRF2.5 = BP024275.D		RRF005 = BP024276.D		RRF010 = BP024277.D		
		RRF020 = BP024278.D		RRF040 = BP024279.D		RRF050 = BP024280.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.123	1.145	1.262	1.254	1.210	1.210	4.9
Phenol-d6		1.463	1.552	1.718	1.748	1.697	1.656	6.7
Nitrobenzene-d5		0.322	0.337	0.367	0.368	0.357	0.351	4.8
Naphthalene		1.044	1.054	1.091	1.079	1.037	1.054	2.3
2-Fluorobiphenyl		1.332	1.334	1.359	1.366	1.263	1.306	4.1
Acenaphthylene		1.604	1.680	1.793	1.814	1.726	1.730	4.1
Acenaphthene		1.087	1.087	1.141	1.126	1.081	1.097	2.4
Fluorene		1.376	1.397	1.454	1.398	1.368	1.388	2.4
2,4,6-Tribromophenol		0.235	0.256	0.278	0.289	0.289	0.277	8.3
Phenanthrene		1.098	1.086	1.117	1.127	1.070	1.091	2.3
Anthracene		0.995	1.017	1.084	1.111	1.053	1.052	3.9
Fluoranthene		1.289	1.274	1.316	1.347	1.280	1.298	2.1
Pyrene		1.192	1.236	1.345	1.305	1.294	1.271	4.4
Terphenyl-d14		0.967	0.998	1.055	1.032	1.005	0.992	4.4
Benzo (a) anthracene		1.195	1.214	1.292	1.293	1.234	1.243	3.1
Chrysene		1.180	1.181	1.229	1.213	1.173	1.191	1.9
Benzo (k) fluoranthene		1.088	1.131	1.217	1.212	1.154	1.158	3.9
Benzo (a) pyrene		0.939	0.971	1.057	1.091	1.053	1.034	5.4
Indeno (1,2,3-cd) pyrene		1.252	1.304	1.407	1.444	1.401	1.388	5.8
Dibenzo (a,h) anthracene		1.046	1.089	1.172	1.203	1.169	1.152	5.3
Benzo (g,h,i) perylene		1.073	1.110	1.198	1.218	1.180	1.173	5.0

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP041425.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Apr 15 04:48:42 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BP024275.D 5 =BP024276.D 10 =BP024277.D 20 =BP024278.D 40 =BP024279.D 50 =BP024280.D 60 =BP024281.D 80 =BP024282.D

Compound		2.5	5	10	20	40	50	60	80	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.551	0.517	0.552	0.512	0.481	0.490	0.477	0.512	6.10	
3)	Pyridine	1.265	1.280	1.422	1.396	1.333	1.383	1.378	1.351	4.43	
4)	n-Nitrosodimet...	0.424	0.443	0.469	0.457	0.442	0.460	0.444	0.448	3.29	
5) S	2-Fluorophenol	1.123	1.145	1.262	1.254	1.210	1.277	1.196	1.210	4.93	
6)	Aniline	1.439	1.487	1.636	1.587	1.403	1.428	1.380	1.480	6.52	
7) S	Phenol-d6	1.463	1.552	1.718	1.748	1.697	1.769	1.647	1.656	6.75	
8)	2-Chlorophenol	1.260	1.297	1.412	1.399	1.359	1.400	1.328	1.350	4.30	
9)	Benzaldehyde	0.943	0.934	0.942	0.836	0.732	0.726	0.621	0.819	15.70	
10) C	Phenol	1.475	1.565	1.720	1.750	1.698	1.779	1.643	1.661	6.54	
11)	bis(2-Chloroet...	1.278	1.317	1.399	1.398	1.321	1.358	1.300	1.339	3.56	
12)	1,3-Dichlorobe...	1.464	1.486	1.534	1.486	1.402	1.433	1.373	1.454	3.79	
13) C	1,4-Dichlorobe...	1.496	1.489	1.550	1.494	1.436	1.463	1.399	1.475	3.28	
14)	1,2-Dichlorobe...	1.472	1.441	1.502	1.445	1.362	1.411	1.339	1.424	4.10	
15)	Benzyl Alcohol	0.857	0.935	1.106	1.158	1.142	1.178	1.122	1.071	11.58	
16)	2,2'-oxybis(1-...	1.452	1.496	1.517	1.514	1.405	1.397	1.348	1.447	4.54	
17)	2-Methylphenol	0.915	1.002	1.123	1.140	1.105	1.150	1.087	1.075	7.97	
18)	Hexachloroethane	0.532	0.537	0.558	0.542	0.521	0.533	0.510	0.533	2.88	
19) P	n-Nitroso-di-n...	0.941	1.008	1.008	1.088	1.084	1.041	1.038	0.989	1.025	4.76
20)	3+4-Methylphenols	1.224	1.365	1.560	1.592	1.567	1.607	1.525	1.491	9.57	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.470	0.487	0.522	0.519	0.490	0.495	0.483	0.495	3.85	
23) S	Nitrobenzene-d5	0.322	0.337	0.367	0.368	0.357	0.356	0.347	0.351	4.76	
24)	Nitrobenzene	0.328	0.334	0.362	0.364	0.349	0.353	0.340	0.347	3.96	
25)	Isophorone	0.575	0.601	0.653	0.673	0.650	0.654	0.639	0.635	5.41	
26) C	2-Nitrophenol	0.130	0.143	0.172	0.183	0.184	0.191	0.186	0.170	13.97	
27)	2,4-Dimethylph...	0.180	0.194	0.219	0.226	0.225	0.228	0.221	0.213	8.81	
28)	bis(2-Chloroet...	0.412	0.426	0.444	0.452	0.430	0.425	0.412	0.429	3.51	
29) C	2,4-Dichloroph...	0.242	0.268	0.297	0.308	0.307	0.311	0.302	0.291	8.94	
30)	1,2,4-Trichlor...	0.308	0.305	0.318	0.321	0.309	0.315	0.306	0.311	2.00	
31)	Naphthalene	1.044	1.054	1.091	1.079	1.037	1.048	1.023	1.054	2.27	
32)	Benzoic acid		0.185	0.226	0.242	0.270	0.285	0.282	0.248	15.56	
33)	4-Chloroaniline	0.328	0.349	0.389	0.397	0.378	0.379	0.378	0.371	6.46	
34) C	Hexachlorobuta...	0.181	0.181	0.186	0.189	0.181	0.182	0.182	0.183	1.62	
35)	Caprolactam	0.085	0.092	0.111	0.112	0.115	0.121	0.115	0.107	12.53	
36) C	4-Chloro-3-met...	0.284	0.310	0.349	0.357	0.356	0.363	0.351	0.339	8.82	
37)	2-Methylnaphth...	0.700	0.720	0.755	0.755	0.733	0.740	0.712	0.731	2.89	
38)	1-Methylnaphth...	0.700	0.714	0.737	0.731	0.712	0.718	0.691	0.715	2.25	

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP041425.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.522	0.538	0.568	0.576	0.544	0.549	0.552	0.550	3.33	
41) P	Hexachlorocycl...	0.162	0.185	0.197	0.218	0.199	0.197	0.204	0.195	8.92	
42) S	2,4,6-Tribromo...	0.235	0.256	0.278	0.289	0.289	0.296	0.294	0.277	8.29	
43) C	2,4,6-Trichlor...	0.301	0.335	0.369	0.389	0.386	0.390	0.390	0.366	9.51	
44)	2,4,5-Trichlor...	0.332	0.371	0.409	0.427	0.429	0.436	0.430	0.405	9.62	
45) S	2-Fluorobiphenyl	1.332	1.334	1.359	1.366	1.263	1.251	1.240	1.306	4.08	
46)	1,1'-Biphenyl	1.454	1.489	1.528	1.529	1.434	1.428	1.429	1.470	3.07	
47)	2-Chloronaphth...	1.063	1.100	1.135	1.139	1.085	1.090	1.078	1.099	2.60	
48)	2-Nitroaniline	0.250	0.270	0.317	0.330	0.324	0.335	0.331	0.308	10.98	
49)	Acenaphthylene	1.604	1.680	1.793	1.814	1.726	1.763	1.730	1.730	4.11	
50)	Dimethylphthalate	1.429	1.416	1.495	1.495	1.460	1.460	1.426	1.454	2.22	
51)	2,6-Dinitrotol...	0.264	0.290	0.319	0.325	0.319	0.328	0.317	0.309	7.58	
52) C	Acenaphthene	1.087	1.087	1.141	1.126	1.081	1.079	1.076	1.097	2.35	
53)	3-Nitroaniline	0.250	0.289	0.338	0.354	0.342	0.340	0.358	0.325	12.25	
54) P	2,4-Dinitrophenol		0.125	0.163	0.186	0.196	0.210	0.211	0.182	18.22	
55)	Dibenzofuran	1.801	1.807	1.871	1.833	1.746	1.768	1.723	1.793	2.84	
56) P	4-Nitrophenol	0.190	0.231	0.289	0.305	0.306	0.323	0.317	0.280	17.90	
57)	2,4-Dinitrotol...	0.334	0.368	0.439	0.448	0.442	0.463	0.456	0.421	11.82	
58)	Fluorene	1.376	1.397	1.454	1.398	1.368	1.366	1.356	1.388	2.40	
59)	2,3,4,6-Tetrac...	0.327	0.351	0.380	0.389	0.387	0.390	0.389	0.373	6.57	
60)	Diethylphthalate	1.451	1.484	1.528	1.550	1.499	1.499	1.481	1.499	2.16	
61)	4-Chlorophenyl...	0.667	0.675	0.699	0.680	0.667	0.670	0.659	0.674	1.95	
62)	4-Nitroaniline	0.263	0.300	0.353	0.369	0.364	0.380	0.376	0.344	12.99	
63)	Azobenzene	1.269	1.383	1.446	1.431	1.385	1.385	1.344	1.378	4.26	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.095	0.118	0.131	0.134	0.140	0.138	0.126	13.50	
66) c	n-Nitrosodiphe...	0.567	0.585	0.616	0.630	0.591	0.608	0.580	0.597	3.71	
67)	4-Bromophenyl-...	0.203	0.212	0.220	0.230	0.220	0.225	0.222	0.219	4.11	
68)	Hexachlorobenzene	0.247	0.247	0.260	0.271	0.261	0.269	0.263	0.260	3.67	
69)	Atrazine	0.176	0.167	0.134	0.121	0.162			0.152	15.57	
70) C	Pentachlorophenol	0.143	0.155	0.175	0.196	0.197	0.203	0.201	0.181	13.35	
71)	Phenanthrene	1.098	1.086	1.117	1.127	1.070	1.082	1.058	1.091	2.27	
72)	Anthracene	0.995	1.017	1.084	1.111	1.053	1.071	1.030	1.052	3.85	
73)	Carbazole	0.968	0.998	1.060	1.084	1.014	1.037	1.031	1.027	3.78	
74)	Di-n-butylphth...	1.147	1.230	1.253	1.398	1.310	1.338	1.284	1.280	6.30	
75) C	Fluoranthene	1.289	1.274	1.316	1.347	1.280	1.304	1.274	1.298	2.07	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.144	0.141	0.109	0.436	0.333	0.302	0.307	0.254	48.39	
78)	Pyrene	1.192	1.236	1.345	1.305	1.294	1.305	1.219	1.271	4.38	
79) S	Terphenyl-d14	0.967	0.998	1.055	1.032	1.005	0.964	0.926	0.992	4.42	
80)	Butylbenzylpht...	0.434	0.488	0.546	0.596	0.580	0.593	0.574	0.544	11.25	
81)	Benzo(a)anthra...	1.195	1.214	1.292	1.293	1.234	1.253	1.221	1.243	3.08	
82)	3,3'-Dichlorob...	0.345	0.383	0.431	0.486	0.463	0.485	0.460	0.436	12.30	
83)	Chrysene	1.180	1.181	1.229	1.213	1.173	1.193	1.167	1.191	1.88	
84)	Bis(2-ethylhex...	0.639	0.735	0.779	0.893	0.853	0.867	0.819	0.798	11.09	
85) c	Di-n-octyl pht...	0.945	1.093	1.222	1.461	1.430	1.486	1.446	1.297	16.46	

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP041425.M

86) I	Perylene-d12	-----ISTD-----	
87)	Indeno(1,2,3-c...	1.252 1.304 1.407 1.444 1.401 1.445 1.466 1.388	5.77
88)	Benzo(b)fluora...	1.130 1.174 1.217 1.258 1.196 1.205 1.212 1.199	3.30
89)	Benzo(k)fluora...	1.088 1.131 1.217 1.212 1.154 1.166 1.138 1.158	3.94
90) C	Benzo(a)pyrene	0.939 0.971 1.057 1.091 1.053 1.070 1.058 1.034	5.44
91)	Dibenzo(a,h)an...	1.046 1.089 1.172 1.203 1.169 1.186 1.202 1.152	5.28
92)	Benzo(g,h,i)pe...	1.073 1.110 1.198 1.218 1.180 1.209 1.224 1.173	4.99

(#) = Out of Range

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM042825.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Apr 28 18:09:16 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BM050024.D 5 =BM050025.D 10 =BM050026.D 20 =BM050027.D 40 =BM050028.D 50 =BM050029.D 60 =BM050030.D 80 =BM050031.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.506	0.464	0.478	0.511	0.504	0.491	0.473	0.490		3.75
3)	Pyridine	1.201	1.166	1.229	1.331	1.328	1.292	1.261	1.258		5.03
4)	n-Nitrosodimet...	0.487	0.459	0.475	0.522	0.518	0.504	0.490	0.493		4.62
5) S	2-Fluorophenol	1.074	1.079	1.107	1.208	1.211	1.173	1.142	1.142		5.04
6)	Aniline	1.657	1.689	1.768	1.942	1.922	1.875	1.835	1.813		6.16
7) S	Phenol-d6	1.290	1.318	1.398	1.543	1.537	1.494	1.469	1.436		7.13
8)	2-Chlorophenol	1.169	1.161	1.198	1.312	1.301	1.268	1.235	1.235		4.96
9)	Benzaldehyde	0.940	0.920	0.971	1.031	1.013	0.956	0.894	0.961		5.08
10) C	Phenol	1.349	1.344	1.420	1.539	1.537	1.501	1.483	1.453		5.73
11)	bis(2-Chloroet...	1.213	1.105	1.176	1.279	1.271	1.233	1.218	1.213		4.90
12)	1,3-Dichlorobe...	1.483	1.428	1.453	1.566	1.552	1.508	1.453	1.492		3.51
13) C	1,4-Dichlorobe...	1.518	1.418	1.463	1.561	1.557	1.516	1.458	1.499		3.60
14)	1,2-Dichlorobe...	1.420	1.393	1.423	1.522	1.506	1.464	1.405	1.448		3.50
15)	Benzyl Alcohol	0.866	0.881	0.966	1.080	1.074	1.050	1.050	0.996		9.16
16)	2,2'-oxybis(1-...	1.487	1.422	1.445	1.552	1.513	1.473	1.433	1.475		3.17
17)	2-Methylphenol	0.857	0.893	0.931	1.033	1.026	0.988	0.975	0.957		6.96
18)	Hexachloroethane	0.552	0.508	0.521	0.556	0.548	0.533	0.510	0.533		3.79
19) P	n-Nitroso-di-n...	0.802	0.889	0.885	0.921	1.003	0.988	0.949	0.928	0.921	6.95
20)	3+4-Methylphenols	1.137	1.170	1.267	1.393	1.392	1.349	1.341	1.293		8.09
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.483	0.464	0.485	0.531	0.525	0.506	0.487	0.497		4.94
23) S	Nitrobenzene-d5	0.386	0.374	0.397	0.434	0.433	0.417	0.400	0.406		5.68
24)	Nitrobenzene	0.337	0.325	0.345	0.374	0.372	0.358	0.346	0.351		5.16
25)	Isophorone	0.666	0.648	0.680	0.729	0.729	0.704	0.687	0.692		4.44
26) C	2-Nitrophenol	0.148	0.157	0.172	0.196	0.198	0.192	0.191	0.179		11.33
27)	2,4-Dimethylph...	0.263	0.266	0.289	0.324	0.322	0.312	0.305	0.297		8.42
28)	bis(2-Chloroet...	0.407	0.399	0.422	0.455	0.452	0.434	0.425	0.428		4.92
29) C	2,4-Dichloroph...	0.294	0.298	0.326	0.362	0.359	0.351	0.342	0.333		8.47
30)	1,2,4-Trichlor...	0.400	0.384	0.394	0.427	0.426	0.412	0.399	0.406		4.02
31)	Naphthalene	1.001	0.959	0.993	1.066	1.057	1.023	0.989	1.013		3.80
32)	Benzoic acid		0.138	0.172	0.197	0.206	0.212	0.215	0.190		15.67
33)	4-Chloroaniline	0.361	0.393	0.404	0.441	0.448	0.437	0.423	0.415		7.51
34) C	Hexachlorobuta...	0.253	0.240	0.249	0.270	0.270	0.263	0.258	0.258		4.34
35)	Caprolactam	0.090	0.085	0.095	0.104	0.104	0.102	0.100	0.097		7.73
36) C	4-Chloro-3-met...	0.289	0.283	0.302	0.325	0.329	0.317	0.309	0.308		5.72
37)	2-Methylnaphth...	0.656	0.639	0.662	0.713	0.714	0.692	0.678	0.679		4.22
38)	1-Methylnaphth...	0.703	0.675	0.708	0.753	0.751	0.731	0.710	0.719		3.92

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM042825.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.624	0.622	0.655	0.742	0.745	0.725	0.733	0.692	8.17	
41) P	Hexachlorocycl...	0.303	0.362	0.455	0.468	0.467	0.483	0.423	17.30		
42) S	2,4,6-Tribromo...	0.253	0.249	0.281	0.318	0.329	0.318	0.323	0.296	11.61	
43) C	2,4,6-Trichlor...	0.372	0.381	0.423	0.476	0.485	0.467	0.469	0.439	10.76	
44)	2,4,5-Trichlor...	0.410	0.417	0.453	0.517	0.519	0.501	0.497	0.474	9.83	
45) S	2-Fluorobiphenyl	1.588	1.555	1.632	1.807	1.822	1.744	1.688	1.691	6.21	
46)	1,1'-Biphenyl	1.427	1.395	1.452	1.573	1.581	1.507	1.473	1.487	4.77	
47)	2-Chloronaphth...	1.126	1.112	1.155	1.250	1.248	1.192	1.158	1.177	4.69	
48)	2-Nitroaniline	0.238	0.242	0.269	0.302	0.304	0.294	0.286	0.276	9.96	
49)	Acenaphthylene	1.794	1.715	1.810	1.972	1.971	1.889	1.845	1.857	5.10	
50)	Dimethylphthalate	1.444	1.377	1.437	1.532	1.543	1.470	1.429	1.462	4.02	
51)	2,6-Dinitrotol...	0.266	0.271	0.299	0.327	0.331	0.316	0.309	0.303	8.50	
52) C	Acenaphthene	1.038	0.998	1.046	1.133	1.145	1.094	1.067	1.075	4.93	
53)	3-Nitroaniline	0.233	0.247	0.284	0.321	0.325	0.311	0.302	0.289	12.47	
54) P	2,4-Dinitrophenol	0.100	0.132	0.178	0.194	0.188	0.191	0.164	23.65		
55)	Dibenzofuran	1.749	1.681	1.749	1.876	1.888	1.810	1.763	1.788	4.17	
56) P	4-Nitrophenol	0.128	0.180	0.224	0.237	0.231	0.231	0.205	20.96		
57)	2,4-Dinitrotol...	0.338	0.366	0.412	0.456	0.468	0.447	0.440	0.418	11.72	
58)	Fluorene	1.387	1.343	1.431	1.558	1.573	1.500	1.453	1.463	5.84	
59)	2,3,4,6-Tetrac...	0.366	0.362	0.398	0.435	0.445	0.432	0.431	0.410	8.44	
60)	Diethylphthalate	1.372	1.301	1.380	1.433	1.451	1.376	1.328	1.377	3.86	
61)	4-Chlorophenyl...	0.741	0.716	0.770	0.857	0.871	0.836	0.836	0.804	7.58	
62)	4-Nitroaniline	0.208	0.234	0.277	0.313	0.321	0.301	0.295	0.279	15.17	
63)	Azobenzene	1.118	1.091	1.150	1.216	1.229	1.165	1.110	1.154	4.59	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.088	0.110	0.135	0.142	0.138	0.137	0.125	17.16		
66) c	n-Nitrosodiphe...	0.580	0.572	0.596	0.655	0.657	0.629	0.610	0.614	5.56	
67)	4-Bromophenyl-...	0.223	0.216	0.229	0.258	0.258	0.256	0.253	0.242	7.60	
68)	Hexachlorobenzene	0.265	0.251	0.264	0.294	0.295	0.291	0.291	0.279	6.49	
69)	Atrazine	0.196	0.198	0.214	0.236	0.242	0.234	0.230	0.222	8.47	
70) C	Pentachlorophenol	0.117	0.141	0.167	0.172	0.170	0.174	0.157	14.52		
71)	Phenanthrene	1.075	1.035	1.083	1.187	1.212	1.173	1.132	1.128	5.84	
72)	Anthracene	1.062	1.038	1.096	1.214	1.236	1.191	1.154	1.142	6.78	
73)	Carbazole	0.909	0.900	0.960	1.054	1.075	1.038	0.999	0.991	7.05	
74)	Di-n-butylphth...	1.106	1.082	1.151	1.246	1.277	1.231	1.165	1.180	6.25	
75) C	Fluoranthene	1.178	1.142	1.250	1.410	1.455	1.425	1.411	1.324	9.86	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.560	0.646	0.772	0.769	0.765	0.751	0.710	12.36		
78)	Pyrene	1.290	1.255	1.332	1.518	1.520	1.465	1.453	1.404	7.83	
79) S	Terphenyl-d14	1.176	1.189	1.332	1.524	1.541	1.458	1.239	1.352	11.58	
80)	Butylbenzylphth...	0.489	0.479	0.515	0.562	0.568	0.545	0.524	0.526	6.53	
81)	Benzo(a)anthra...	1.280	1.231	1.321	1.478	1.479	1.442	1.408	1.377	7.24	
82)	3,3'-Dichlorob...	0.434	0.432	0.483	0.580	0.597	0.583	0.581	0.527	14.14	
83)	Chrysene	1.208	1.170	1.214	1.342	1.369	1.325	1.296	1.275	6.03	
84)	Bis(2-ethylhex...	0.726	0.725	0.775	0.843	0.852	0.814	0.765	0.786	6.61	
85) c	Di-n-octyl pht...	1.221	1.197	1.267	1.366	1.404	1.341	1.275	1.296	5.92	

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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.301	1.293	1.404	1.602	1.646	1.591	1.595	1.490	10.27
88)	Benzo(b)fluora...	1.128	1.149	1.209	1.406	1.415	1.408	1.390	1.301	10.16
89)	Benzo(k)fluora...	1.219	1.150	1.251	1.387	1.449	1.383	1.372	1.316	8.29
90) C	Benzo(a)pyrene	1.094	1.066	1.147	1.295	1.330	1.298	1.297	1.218	9.15
91)	Dibenzo(a,h)an...	1.056	1.044	1.142	1.300	1.347	1.305	1.310	1.215	10.72
92)	Benzo(g,h,i)pe...	1.066	1.030	1.105	1.236	1.268	1.224	1.212	1.163	8.07

(#) = Out of Range

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 Method File : 8270-BF043025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Apr 30 16:00:01 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BF142239.D 5 =BF142240.D 10 =BF142241.D 20 =BF142242.D 40 =BF142243.D 50 =BF142244.D 60 =BF142245.D 80 =BF142246.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.563	0.534	0.561	0.592	0.580	0.555	0.530	0.559		4.03
3)	Pyridine	1.465	1.391	1.454	1.522	1.503	1.460	1.380	1.454		3.62
4)	n-Nitrosodimet...	0.747	0.699	0.728	0.807	0.789	0.766	0.731	0.752		4.95
5) S	2-Fluorophenol	1.324	1.238	1.265	1.314	1.285	1.210	1.131	1.252		5.35
6)	Aniline	2.212	2.085	2.157	2.245	2.203	2.101	1.981	2.140		4.29
7) S	Phenol-d6	1.559	1.505	1.534	1.593	1.550	1.475	1.370	1.512		4.85
8)	2-Chlorophenol	1.252	1.232	1.304	1.379	1.354	1.313	1.225	1.294		4.64
9)	Benzaldehyde	1.154	1.088	1.095	1.117	1.078	0.993	0.875	1.057		8.91
10) C	Phenol	1.679	1.588	1.657	1.715	1.687	1.603	1.468	1.628		5.15
11)	bis(2-Chloroet...	1.345	1.250	1.270	1.318	1.285	1.231	1.132	1.262		5.46
12)	1,3-Dichlorobe...	1.571	1.485	1.485	1.533	1.478	1.396	1.299	1.464		6.18
13) C	1,4-Dichlorobe...	1.610	1.486	1.495	1.546	1.488	1.404	1.295	1.475		6.86
14)	1,2-Dichlorobe...	1.489	1.418	1.431	1.475	1.432	1.356	1.255	1.408		5.67
15)	Benzyl Alcohol	1.047	1.017	1.064	1.149	1.126	1.082	1.023	1.073		4.69
16)	2,2'-oxybis(1-...	2.368	2.287	2.303	2.386	2.344	2.216	2.043	2.278		5.19
17)	2-Methylphenol	1.085	1.029	1.068	1.121	1.084	1.050	0.983	1.060		4.19
18)	Hexachloroethane	0.468	0.466	0.481	0.511	0.514	0.489	0.451	0.483		4.84
19) P	n-Nitroso-di-n...	0.953	0.987	0.937	0.949	0.967	0.939	0.898	0.844	0.934	4.77
20)	3+4-Methylphenols	1.357	1.323	1.372	1.400	1.366	1.296	1.166	1.326		5.90
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.511	0.482	0.483	0.468	0.461	0.430	0.404	0.463		7.70
23) S	Nitrobenzene-d5	0.217	0.251	0.302	0.340	0.351	0.339	0.330	0.304		16.88
24)	Nitrobenzene	0.229	0.261	0.297	0.328	0.338	0.323	0.314	0.299		13.31
25)	Isophorone	0.660	0.630	0.642	0.660	0.654	0.626	0.601	0.639		3.36
26) C	2-Nitrophenol	0.048	0.057	0.083	0.115	0.132	0.136	0.142	0.102		38.38#
27)	2,4-Dimethylph...	0.315	0.319	0.333	0.337	0.333	0.315	0.302	0.322		3.96
28)	bis(2-Chloroet...	0.425	0.404	0.414	0.415	0.410	0.386	0.366	0.403		4.98
29) C	2,4-Dichloroph...	0.246	0.253	0.274	0.291	0.286	0.272	0.263	0.269		6.12
30)	1,2,4-Trichlor...	0.320	0.303	0.305	0.312	0.304	0.287	0.273	0.301		5.28
31)	Naphthalene	1.106	1.040	1.035	1.020	0.999	0.924	0.858	0.997		8.21
32)	Benzoic acid		0.048	0.087	0.130	0.146	0.159	0.179	0.125		39.24
33)	4-Chloroaniline	0.446	0.414	0.429	0.429	0.423	0.396	0.371	0.415		5.98
34) C	Hexachlorobuta...	0.180	0.175	0.179	0.185	0.178	0.170	0.161	0.175		4.35
35)	Caprolactam	0.068	0.073	0.081	0.087	0.089	0.085	0.083	0.081		9.45
36) C	4-Chloro-3-met...	0.262	0.265	0.279	0.295	0.293	0.276	0.266	0.277		4.84
37)	2-Methylnaphth...	0.679	0.637	0.633	0.623	0.612	0.574	0.534	0.613		7.69
38)	1-Methylnaphth...	0.700	0.655	0.667	0.652	0.641	0.590	0.542	0.635		8.29

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.621	0.575	0.572	0.576	0.566	0.534	0.496	0.563	6.88	
41) P	Hexachlorocycl...	0.244	0.265	0.306	0.352	0.368	0.358	0.343	0.319	15.23	
42) S	2,4,6-Tribromo...	0.139	0.158	0.184	0.204	0.205	0.197	0.190	0.182	13.73	
43) C	2,4,6-Trichlor...	0.275	0.329	0.353	0.370	0.375	0.381	0.357	0.349	10.50	
44)	2,4,5-Trichlor...	0.322	0.330	0.362	0.404	0.411	0.371	0.365	0.367	9.17	
45) S	2-Fluorobiphenyl	1.738	1.580	1.520	1.409	1.347	1.221	1.114	1.418	15.11	
46)	1,1'-Biphenyl	1.773	1.621	1.612	1.581	1.547	1.435	1.316	1.555	9.38	
47)	2-Chloronaphth...	1.289	1.176	1.191	1.185	1.157	1.085	1.014	1.157	7.51	
48)	2-Nitroaniline	0.119	0.156	0.228	0.295	0.316	0.315	0.316	0.249	33.25	
49)	Acenaphthylene	2.149	2.025	2.025	1.997	1.965	1.828	1.675	1.952	7.93	
50)	Dimethylphthalate	1.362	1.284	1.301	1.321	1.309	1.227	1.152	1.280	5.42	
51)	2,6-Dinitrotol...	0.098	0.137	0.193	0.241	0.259	0.254	0.249	0.204	31.45	
52) C	Acenaphthene	1.271	1.175	1.156	1.172	1.138	1.072	0.995	1.140	7.63	
53)	3-Nitroaniline	0.143	0.187	0.252	0.298	0.311	0.310	0.299	0.257	26.09	
54) P	2,4-Dinitrophenol		0.025	0.036	0.057	0.069	0.076	0.085	0.058	40.36	
55)	Dibenzofuran	1.930	1.775	1.751	1.743	1.713	1.581	1.466	1.709	8.67	
56) P	4-Nitrophenol		0.131	0.177	0.216	0.233	0.230	0.220	0.201	19.82	
57)	2,4-Dinitrotol...	0.104	0.145	0.213	0.285	0.311	0.309	0.306	0.239	35.96	
58)	Fluorene	1.493	1.403	1.351	1.317	1.273	1.186	1.071	1.299	10.74	
59)	2,3,4,6-Tetrac...	0.252	0.267	0.312	0.334	0.334	0.323	0.305	0.304	10.65	
60)	Diethylphthalate	1.324	1.264	1.302	1.313	1.300	1.215	1.126	1.263	5.61	
61)	4-Chlorophenyl...	0.702	0.642	0.632	0.632	0.614	0.570	0.526	0.617	9.06	
62)	4-Nitroaniline	0.144	0.177	0.233	0.272	0.287	0.281	0.269	0.238	23.57	
63)	Azobenzene	1.346	1.260	1.275	1.279	1.278	1.198	1.098	1.248	6.33	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.022	0.034	0.055	0.065	0.071	0.075	0.054	39.23	
66) c	n-Nitrosodiphe...	0.727	0.686	0.693	0.712	0.689	0.653	0.623	0.683	5.11	
67)	4-Bromophenyl-...	0.224	0.219	0.223	0.236	0.225	0.220	0.211	0.223	3.39	
68)	Hexachlorobenzene	0.256	0.245	0.248	0.261	0.255	0.244	0.237	0.249	3.28	
69)	Atrazine	0.166	0.172	0.186	0.190	0.190	0.182	0.174	0.180	5.29	
70) C	Pentachlorophenol		0.093	0.121	0.144	0.145	0.144	0.144	0.132	16.25	
71)	Phenanthrene	1.218	1.114	1.119	1.112	1.064	0.995	0.940	1.080	8.45	
72)	Anthracene	1.209	1.161	1.151	1.128	1.099	1.025	0.959	1.105	7.77	
73)	Carbazole	1.125	1.047	1.061	1.033	0.996	0.935	0.857	1.008	8.77	
74)	Di-n-butylphth...	0.986	1.006	1.088	1.069	1.045	0.988	0.912	1.013	5.88	
75) C	Fluoranthene	1.221	1.144	1.155	1.085	1.035	0.957	0.878	1.068	11.24	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.702	0.748	0.885	0.963	0.945	0.895	0.810	0.850	11.67	
78)	Pyrene	1.833	1.801	1.849	2.026	1.937	1.833	1.635	1.845	6.54	
79) S	Terphenyl-d14	1.472	1.413	1.422	1.481	1.392	1.290	1.155	1.375	8.41	
80)	Butylbenzylphth...	0.218	0.293	0.405	0.505	0.525	0.524	0.509	0.425	29.32	
81)	Benzo(a)anthra...	1.379	1.320	1.332	1.438	1.388	1.316	1.225	1.343	5.06	
82)	3,3'-Dichlorob...	0.286	0.317	0.380	0.442	0.450	0.451	0.435	0.394	17.37	
83)	Chrysene	1.302	1.210	1.249	1.232	1.227	1.197	1.138	1.222	4.12	
84)	Bis(2-ethylhex...	0.384	0.448	0.549	0.695	0.726	0.722	0.707	0.604	23.69	
85) c	Di-n-octyl pht...		0.668	0.875	1.262	1.320	1.347	1.329	1.133	25.55	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
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86) I	Perylene-d12	-----ISTD-----	
87)	Indeno(1,2,3-c...	1.323 1.384 1.466 1.613 1.556 1.490 1.422 1.465	6.78
88)	Benzo(b)fluora...	1.317 1.220 1.208 1.302 1.271 1.177 1.202 1.242	4.36
89)	Benzo(k)fluora...	1.211 1.159 1.222 1.145 1.146 1.110 0.962 1.136	7.59
90) C	Benzo(a)pyrene	1.121 1.098 1.146 1.203 1.180 1.137 1.076 1.137	3.91
91)	Dibenzo(a,h)an...	1.075 1.131 1.197 1.312 1.271 1.192 1.144 1.189	6.90
92)	Benzo(g,h,i)pe...	1.076 1.138 1.204 1.308 1.267 1.213 1.162 1.195	6.55

(#) = Out of Range