

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: WALS01
Lab Code: CHEM Case No.: Q1626 SAS No.: Q1626 SDG No.: Q1626
Instrument ID: BNA_F Calibration Date(s): 03/10/2025 03/10/2025
Calibration Time(s): 11:01 15:20

LAB FILE ID:		RRF2.5 = BF141897.D		RRF005 = BF141898.D		RRF010 = BF141899.D		
		RRF020 = BF141900.D		RRF040 = BF141901.D		RRF060 = BF141903.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF060	RRF	% RSD
Pyridine		1.217	1.204	1.334	1.221	1.209	1.232	3.8
2-Fluorophenol		1.267	1.243	1.298	1.148	1.146	1.198	5.8
Phenol-d6		1.623	1.593	1.644	1.442	1.471	1.526	6.0
1,4-Dichlorobenzene		1.514	1.503	1.548	1.393	1.420	1.452	4.7
2-Methylphenol		1.080	1.050	1.122	1.008	1.079	1.057	3.7
3+4-Methylphenols		1.449	1.394	1.470	1.294	1.334	1.354	6.5
Nitrobenzene-d5		0.345	0.356	0.379	0.348	0.363	0.355	3.5
Hexachloroethane		0.545	0.551	0.576	0.517	0.560	0.544	3.8
Nitrobenzene		0.347	0.351	0.375	0.346	0.359	0.353	3.1
Hexachlorobutadiene		0.211	0.211	0.221	0.203	0.214	0.213	2.5
2,4,6-Trichlorophenol		0.388	0.389	0.402	0.398	0.401	0.398	1.9
2-Fluorobiphenyl		1.430	1.379	1.379	1.254	1.246	1.315	5.9
2,4,5-Trichlorophenol		0.396	0.391	0.422	0.389	0.415	0.403	3.0
2,4-Dinitrotoluene		0.365	0.382	0.402	0.375	0.383	0.381	2.9
2,4,6-Tribromophenol		0.234	0.236	0.259	0.250	0.265	0.254	5.7
Hexachlorobenzene		0.262	0.267	0.284	0.269	0.271	0.275	3.9
Pentachlorophenol		0.130	0.151	0.172	0.177	0.186	0.170	12.7
Terphenyl-d14		1.343	1.309	1.360	1.276	1.417	1.353	3.6

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF031025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Mar 10 15:46:22 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BF141897.D 5 =BF141898.D 10 =BF141899.D 20 =BF141900.D 40 =BF141901.D 50 =BF141905.D 60 =BF141903.D 80 =BF141904.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.490	0.482	0.536	0.504	0.495	0.501	0.508	0.502		3.43
3)	Pyridine	1.217	1.204	1.334	1.221	1.203	1.209	1.233	1.232		3.77
4)	n-Nitrosodimet...	0.554	0.556	0.621	0.583	0.595	0.594	0.607	0.587		4.26
5) S	2-Fluorophenol	1.267	1.243	1.298	1.148	1.162	1.146	1.124	1.198		5.79
6)	Aniline	1.599	1.602	1.640	1.465	1.443	1.435	1.351	1.505		7.20
7) S	Phenol-d6	1.623	1.593	1.644	1.442	1.483	1.471	1.424	1.526		5.99
8)	2-Chlorophenol	1.421	1.354	1.434	1.259	1.295	1.284	1.256	1.329		5.63
9)	Benzaldehyde		1.021	0.975	0.778	0.778	0.716		0.853		15.85
10) C	Phenol	1.708	1.675	1.747	1.536	1.542	1.532	1.496	1.605		6.30
11)	bis(2-Chloroet...	1.287	1.246	1.281	1.144	1.175	1.176	1.127	1.205		5.43
12)	1,3-Dichlorobe...	1.475	1.489	1.538	1.373	1.401	1.401	1.367	1.435		4.59
13) C	1,4-Dichlorobe...	1.514	1.503	1.548	1.393	1.408	1.420	1.376	1.452		4.71
14)	1,2-Dichlorobe...	1.461	1.417	1.460	1.303	1.315	1.343	1.273	1.367		5.69
15)	Benzyl Alcohol	1.236	1.252	1.322	1.185	1.214	1.246	1.180	1.233		3.91
16)	2,2'-oxybis(1-...	1.591	1.525	1.534	1.363	1.387	1.472	1.313	1.455		7.07
17)	2-Methylphenol	1.080	1.050	1.122	1.008	1.038	1.079	1.021	1.057		3.73
18)	Hexachloroethane	0.545	0.551	0.576	0.517	0.540	0.560	0.522	0.544		3.76
19) P	n-Nitroso-di-n...	1.020	1.024	1.000	1.043	0.913	0.940	0.991	0.912	0.980	5.29
20)	3+4-Methylphenols	1.449	1.394	1.470	1.294	1.311	1.334	1.223	1.354		6.55
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.514	0.493	0.513	0.460	0.450	0.469	0.453	0.479		5.76
23) S	Nitrobenzene-d5	0.345	0.356	0.379	0.348	0.344	0.363	0.353	0.355		3.47
24)	Nitrobenzene	0.347	0.351	0.375	0.346	0.343	0.359	0.352	0.353		3.07
25)	Isophorone	0.647	0.620	0.655	0.600	0.605	0.648	0.622	0.628		3.49
26) C	2-Nitrophenol	0.150	0.159	0.182	0.175	0.179	0.188	0.181	0.173		7.88
27)	2,4-Dimethylph...	0.247	0.234	0.251	0.231	0.233	0.244	0.232	0.239		3.45
28)	bis(2-Chloroet...	0.411	0.406	0.416	0.372	0.377	0.397	0.378	0.394		4.63
29) C	2,4-Dichloroph...	0.292	0.295	0.309	0.286	0.295	0.303	0.294	0.296		2.54
30)	1,2,4-Trichlor...	0.337	0.325	0.342	0.310	0.318	0.333	0.322	0.327		3.50
31)	Naphthalene	1.104	1.075	1.101	0.984	1.001	0.973	0.954	1.027		6.22
32)	Benzoic acid		0.149	0.191	0.208	0.228	0.242	0.241	0.210		17.07
33)	4-Chloroaniline	0.383	0.378	0.393	0.351	0.354	0.352	0.329	0.363		6.14
34) C	Hexachlorobuta...	0.211	0.211	0.221	0.203	0.214	0.214	0.216	0.213		2.52
35)	Caprolactam	0.092	0.089	0.094	0.084	0.088	0.090	0.094	0.090		4.00
36) C	4-Chloro-3-met...	0.334	0.331	0.349	0.318	0.329	0.334	0.320	0.331		3.13
37)	2-Methylnaphth...	0.746	0.709	0.733	0.653	0.655	0.667	0.645	0.687		6.09
38)	1-Methylnaphth...	0.717	0.691	0.721	0.623	0.619	0.647	0.620	0.663		6.95

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF031025.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.615	0.604	0.626	0.592	0.597	0.606	0.623	0.609	2.11	
41) P	Hexachlorocycl...	0.204	0.221	0.249	0.250	0.237	0.252	0.256	0.238	8.03	
42) S	2,4,6-Tribromo...	0.234	0.236	0.259	0.250	0.259	0.265	0.272	0.254	5.67	
43) C	2,4,6-Trichlor...	0.388	0.389	0.402	0.398	0.400	0.401	0.409	0.398	1.91	
44)	2,4,5-Trichlor...	0.396	0.391	0.422	0.389	0.400	0.415	0.407	0.403	3.05	
45) S	2-Fluorobiphenyl	1.430	1.379	1.379	1.254	1.272	1.246	1.246	1.315	5.95	
46)	1,1'-Biphenyl	1.636	1.573	1.591	1.454	1.502	1.431	1.450	1.520	5.29	
47)	2-Chloronaphth...	1.197	1.141	1.181	1.091	1.129	1.090	1.100	1.133	3.82	
48)	2-Nitroaniline	0.296	0.314	0.346	0.322	0.356	0.332	0.330	0.328	6.08	
49)	Acenaphthylene	1.765	1.740	1.778	1.635	1.664	1.595	1.589	1.681	4.74	
50)	Dimethylphthalate	1.481	1.414	1.469	1.329	1.425	1.345	1.341	1.401	4.47	
51)	2,6-Dinitrotol...	0.277	0.279	0.305	0.285	0.307	0.296	0.292	0.292	4.11	
52) C	Acenaphthene	1.236	1.195	1.231	1.146	1.144	1.165	1.152	1.181	3.37	
53)	3-Nitroaniline	0.291	0.295	0.316	0.293	0.283	0.301	0.291	0.296	3.61	
54) P	2,4-Dinitrophenol		0.085	0.124	0.142	0.153	0.161	0.169	0.139	22.02	
55)	Dibenzofuran	1.849	1.787	1.791	1.614	1.607	1.596	1.570	1.688	6.87	
56) P	4-Nitrophenol	0.192	0.216	0.234	0.230	0.229	0.230	0.230	0.223	6.60	
57)	2,4-Dinitrotol...	0.365	0.382	0.402	0.375	0.383	0.383	0.376	0.381	2.95	
58)	Fluorene	1.443	1.361	1.381	1.229	1.243	1.234	1.220	1.302	7.01	
59)	2,3,4,6-Tetrac...	0.355	0.365	0.390	0.359	0.364	0.366	0.369	0.367	3.05	
60)	Diethylphthalate	1.475	1.471	1.497	1.336	1.357	1.338	1.302	1.397	5.80	
61)	4-Chlorophenyl...	0.730	0.688	0.702	0.643	0.664	0.656	0.667	0.679	4.41	
62)	4-Nitroaniline	0.284	0.288	0.304	0.288	0.287	0.286	0.278	0.288	2.73	
63)	Azobenzene	1.392	1.363	1.404	1.245	1.261	1.226	1.197	1.298	6.57	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.083	0.111	0.121	0.130	0.133	0.137	0.119	16.61	
66) c	n-Nitrosodiphe...	0.675	0.651	0.671	0.620	0.638	0.638	0.637	0.647	3.03	
67)	4-Bromophenyl-...	0.240	0.249	0.255	0.244	0.263	0.245	0.262	0.251	3.55	
68)	Hexachlorobenzene	0.262	0.267	0.284	0.269	0.283	0.271	0.292	0.275	3.92	
69)	Atrazine	0.216	0.213	0.193	0.164	0.206			0.198	10.72	
70) C	Pentachlorophenol	0.130	0.151	0.172	0.177	0.180	0.186	0.191	0.170	12.66	
71)	Phenanthrene	1.155	1.151	1.138	1.038	1.026	1.032	1.023	1.080	5.90	
72)	Anthracene	1.173	1.139	1.139	1.046	1.026	1.036	1.026	1.084	5.89	
73)	Carbazole	0.996	0.994	0.985	0.908	0.903	0.892	0.864	0.935	5.91	
74)	Di-n-butylphth...	1.320	1.321	1.319	1.177	1.238	1.175	1.132	1.240	6.50	
75) C	Fluoranthene	1.234	1.226	1.228	1.108	1.148	1.059	1.017	1.146	7.66	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzydine	0.347	0.309	0.190	0.360	0.220	0.275	0.252	0.279	22.73	
78)	Pyrene	1.695	1.651	1.727	1.611	1.877	1.823	1.726	1.730	5.38	
79) S	Terphenyl-d14	1.343	1.309	1.360	1.276	1.380	1.417	1.384	1.353	3.56	
80)	Butylbenzylpht...	0.629	0.656	0.702	0.655	0.703	0.717	0.677	0.677	4.72	
81)	Benzo(a)anthra...	1.370	1.304	1.334	1.273	1.294	1.317	1.294	1.312	2.41	
82)	3,3'-Dichlorob...	0.370	0.389	0.380	0.372	0.365	0.394	0.384	0.379	2.78	
83)	Chrysene	1.143	1.194	1.260	1.136	1.192	1.213	1.189	1.190	3.53	
84)	Bis(2-ethylhex...	0.897	0.912	0.966	0.904	0.978	0.952	0.927	0.934	3.43	
85) c	Di-n-octyl pht...	1.145	1.219	1.338	1.265	1.376	1.390	1.361	1.299	7.10	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF031025.M

86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	1.097	1.142	1.308	1.287	1.322	1.472	1.429	1.294	10.60	
88)	Benzo(b)fluora...	1.420	1.310	1.485	1.210	1.346	1.390	1.434	1.371	6.65	
89)	Benzo(k)fluora...	1.162	1.268	1.197	1.205	1.129	1.210	1.041	1.173	6.16	
90) C	Benzo(a)pyrene	1.040	1.042	1.123	1.036	1.083	1.083	1.101	1.073	3.16	
91)	Dibenzo(a,h)an...	0.910	0.953	1.073	1.068	1.095	1.195	1.178	1.067	9.91	
92)	Benzo(g,h,i)pe...	0.912	0.949	1.061	1.065	1.064	1.167	1.167	1.055	9.24	

(#) = Out of Range