Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

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
2-Fluorophenol		1.267	1.243	1.298	1.148	1.146	1.198	5.8
Benzaldehyde			1.021	0.975	0.778	0.716	0.853	15.8
Phenol-d6		1.623	1.593	1.644	1.442	1.471	1.526	6.0
Phenol		1.708	1.675	1.747	1.536	1.532	1.605	6.3
bis(2-Chloroethyl)ether		1.287	1.246	1.281	1.144	1.176	1.205	5.4
2-Chlorophenol		1.421	1.354	1.434	1.259	1.284	1.329	5.6
2-Methylphenol		1.080	1.050	1.122	1.008	1.079	1.057	3.7
2,2-oxybis(1-Chloropropane)		1.591	1.525	1.534	1.363	1.472	1.455	7.1
Acetophenone		0.514	0.493	0.513	0.460	0.469	0.479	5.8
3+4-Methylphenols		1.449	1.394	1.470	1.294	1.334	1.354	6.5
n-Nitroso-di-n-propylamine	1.020	1.024	1.000	1.043	0.913	0.991	0.980	5.3
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
Isophorone		0.647	0.620	0.655	0.600	0.648	0.628	3.5
2-Nitrophenol		0.150	0.159	0.182	0.175	0.188	0.173	7.9
2,4-Dimethylphenol		0.247	0.234	0.251	0.231	0.244	0.239	3.5
bis(2-Chloroethoxy)methane		0.411	0.406	0.416	0.372	0.397	0.394	4.6
2,4-Dichlorophenol		0.292	0.295	0.309	0.286	0.303	0.296	2.5
Naphthalene		1.104	1.075	1.101	0.984	0.973	1.027	6.2
4-Chloroaniline		0.383	0.378	0.393	0.351	0.352	0.363	6.1
Hexachlorobutadiene		0.211	0.211	0.221	0.203	0.214	0.213	2.5
Caprolactam		0.092	0.089	0.094	0.084	0.090	0.090	4.0
4-Chloro-3-methylphenol		0.334	0.331	0.349	0.318	0.334	0.331	3.1
2-Methylnaphthalene		0.746	0.709	0.733	0.653	0.667	0.687	6.1
Hexachlorocyclopentadiene		0.204	0.221	0.249	0.250	0.252	0.238	8.0
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
1,1-Biphenyl		1.636	1.573	1.591	1.454	1.431	1.520	5.3
2-Chloronaphthalene		1.197	1.141	1.181	1.091	1.090	1.133	3.8
2-Nitroaniline		0.296	0.314	0.346	0.322	0.332	0.328	6.1
Dimethylphthalate		1.481	1.414	1.469	1.329	1.345	1.401	4.5
Acenaphthylene		1.765	1.740	1.778	1.635	1.595	1.681	4.7

All other compounds must meet a minimum RRF of 0.010.

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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
2,6-Dinitrotoluene		0.277	0.279	0.305	0.285	0.296	0.292	4.1
3-Nitroaniline		0.291	0.295	0.316	0.293	0.301	0.296	3.6
Acenaphthene		1.236	1.195	1.231	1.146	1.165	1.181	3.4
2,4-Dinitrophenol			0.085	0.124	0.142	0.161	0.139	22.0
4-Nitrophenol		0.192	0.216	0.234	0.230	0.230	0.223	6.6
Dibenzofuran		1.849	1.787	1.791	1.614	1.596	1.688	6.9
2,4-Dinitrotoluene		0.365	0.382	0.402	0.375	0.383	0.381	2.9
Diethylphthalate		1.475	1.471	1.497	1.336	1.338	1.397	5.8
4-Chlorophenyl-phenylether		0.730	0.688	0.702	0.643	0.656	0.679	4.4
Fluorene		1.443	1.361	1.381	1.229	1.234	1.302	7.0
4-Nitroaniline		0.284	0.288	0.304	0.288	0.286	0.288	2.7
4,6-Dinitro-2-methylphenol			0.083	0.111	0.121	0.133	0.119	16.6
n-Nitrosodiphenylamine		0.675	0.651	0.671	0.620	0.638	0.647	3.0
2,4,6-Tribromophenol		0.234	0.236	0.259	0.250	0.265	0.254	5.7
4-Bromophenyl-phenylether		0.240	0.249	0.255	0.244	0.245	0.251	3.6
Hexachlorobenzene		0.262	0.267	0.284	0.269	0.271	0.275	3.9
Atrazine		0.216	0.213	0.193	0.164		0.198	10.7
Pentachlorophenol		0.130	0.151	0.172	0.177	0.186	0.170	12.7
Phenanthrene		1.155	1.151	1.138	1.038	1.032	1.080	5.9
Anthracene		1.173	1.139	1.139	1.046	1.036	1.084	5.9
Carbazole		0.996	0.994	0.985	0.908	0.892	0.935	5.9
Di-n-butylphthalate		1.320	1.321	1.319	1.177	1.175	1.240	6.5
Fluoranthene		1.234	1.226	1.228	1.108	1.059	1.146	7.7
Pyrene		1.695	1.651	1.727	1.611	1.823	1.730	5.4
Terphenyl-d14		1.343	1.309	1.360	1.276	1.417	1.353	3.6
Butylbenzylphthalate		0.629	0.656	0.702	0.655	0.717	0.677	4.7
3,3-Dichlorobenzidine		0.370	0.389	0.380	0.372	0.394	0.379	2.8
Benzo(a)anthracene		1.370	1.304	1.334	1.273	1.317	1.312	2.4
Chrysene		1.143	1.194	1.260	1.136	1.213	1.190	3.5
Bis(2-ethylhexyl)phthalate		0.897	0.912	0.966	0.904	0.952	0.934	3.4
Di-n-octyl phthalate		1.145	1.219	1.338	1.265	1.390	1.299	7.1
Benzo(b)fluoranthene		1.420	1.310	1.485	1.210	1.390	1.371	6.6
Benzo(k)fluoranthene		1.162	1.268	1.197	1.205	1.210	1.173	6.2
Benzo(a)pyrene		1.040	1.042	1.123	1.036	1.083	1.073	3.2
Indeno(1,2,3-cd)pyrene		1.097	1.142	1.308	1.287	1.472	1.294	10.6

All other compounds must meet a minimum RRF of 0.010.

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RRF020 = BF141900.D RRF040 = BF141901.D RRF060 = BF141903.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF060	RRF	% RSD
Dibenzo(a,h)anthracene		0.910	0.953	1.073	1.068	1.195	1.067	9.9
Benzo(g,h,i)perylene		0.912	0.949	1.061	1.065	1.167	1.055	9.2
1,2,4,5-Tetrachlorobenzene		0.615	0.604	0.626	0.592	0.606	0.609	2.1
1,4-Dioxane		0.490	0.482	0.536	0.504	0.501	0.502	3.4
2,3,4,6-Tetrachlorophenol		0.355	0.365	0.390	0.359	0.366	0.367	3.0

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_F

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 =BF1419
04.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)		Benzidine	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