Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CHEM02

Lab Code: ACE SDG No.: Q3087

Instrument ID: BNA_N Calibration Date(s): 09/12/2025 09/12/2025

Calibration Time(s): 11:28 14:45

LAB FILE ID: RRFAL1 = BN037707.D RRFAL2 = BN037708.D RRFAL3 = BN037709.D
RRFAL4 = BN037710.D RRFAL5 = BN037711.D RRFAL6 = BN037712.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.471	0.495	0.528	0.518	0.501		0.503	4.4
Benzaldehyde		0.887	0.975	0.756	0.534	0.343	0.699	37.1
Hexachloroethane	0.504	0.529	0.592	0.564	0.553		0.548	6.1
Nitrobenzene	0.303	0.333	0.373	0.363	0.354		0.345	8.1
Isophorone	0.487	0.582	0.670	0.627	0.627		0.599	11.6
2-Nitrophenol	0.098	0.124	0.165	0.167	0.174		0.146	22.7
2,4-Dimethylphenol	0.294	0.319	0.366	0.341	0.340		0.332	8.0
Bis(2-Chloroethoxy)methane	0.354	0.396	0.437	0.406	0.403		0.399	7.5
2,4-Dichlorophenol	0.241	0.273	0.320	0.304	0.301		0.288	10.8
Naphthalene	0.996	1.067	1.142	1.085	1.051		1.068	5.0
4-Chloroaniline		0.412	0.460	0.428	0.419	0.418	0.427	4.5
Hexachlorobutadiene	0.182	0.199	0.212	0.207	0.203		0.201	5.6
Phenol		1.470	1.685	1.580	1.540	1.490	1.553	5.5
Caprolactam		0.068	0.085	0.085	0.090	0.098	0.085	13.0
4-Chloro-3-methylphenol	0.210	0.258	0.303	0.292	0.291		0.271	14.0
2-Methylnaphthalene	0.610	0.705	0.771	0.720	0.705		0.702	8.3
Hexachlorocyclopentadiene		0.345	0.402	0.406	0.427	0.419	0.400	8.0
2,4,6-Trichlorophenol	0.237	0.301	0.386	0.375	0.388		0.337	19.7
2,4,5-Trichlorophenol	0.311	0.358	0.433	0.426	0.430		0.392	14.0
1,1-Biphenyl	1.408	1.506	1.664	1.594	1.530		1.540	6.2
2-Chloronaphthalene	1.126	1.189	1.293	1.233	1.221		1.213	5.1
2-Nitroaniline	0.212	0.236	0.302	0.308	0.322		0.276	17.6
Bis(2-Chloroethyl)ether		1.211	1.361	1.247	1.212	1.159	1.238	6.1
Dimethylphthalate	1.194	1.292	1.435	1.381	1.374		1.335	7.0
2,6-Dinitrotoluene	0.166	0.210	0.267	0.268	0.282		0.239	20.5
Acenaphthylene	1.714	1.894	2.093	2.013	1.969		1.936	7.4
3-Nitroaniline		0.226	0.282	0.268	0.259	0.243	0.256	8.5
Acenaphthene	1.171	1.227	1.331	1.298	1.273		1.260	5.0
2,4-Dinitrophenol		0.056	0.083	0.095	0.119	0.150	0.101	35.3
4-Nitrophenol		0.154	0.186	0.199	0.206	0.208	0.191	11.7
Dibenzofuran	1.610	1.698	1.804	1.751	1.733		1.719	4.2
2,4-Dinitrotoluene	0.240	0.298	0.381	0.386	0.405		0.342	20.6
Diethylphthalate	1.107	1.211	1.384	1.315	1.327		1.269	8.7
2-Chlorophenol	1.109	1.220	1.437	1.348	1.326		1.288	9.8

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Fluorene	1.318	1.375	1.465	1.432	1.376		1.393	4.1
4-Chlorophenyl-phenylether	0.606	0.674	0.718	0.685	0.670		0.670	6.1
4-Nitroaniline		0.228	0.274	0.259	0.231	0.211	0.241	10.5
4,6-Dinitro-2-methylphenol		0.063	0.093	0.099	0.119	0.129	0.101	25.3
N-Nitrosodiphenylamine	0.559	0.618	0.691	0.675	0.664		0.641	8.4
1,2,4,5-Tetrachlorobenzene	0.579	0.598	0.662	0.646	0.635		0.624	5.5
4-Bromophenyl-phenylether	0.182	0.217	0.247	0.244	0.235		0.225	11.9
Hexachlorobenzene	0.246	0.269	0.292	0.291	0.278		0.275	7.0
Atrazine		0.184	0.221	0.224	0.227	0.222	0.216	8.4
Pentachlorophenol		0.105	0.150	0.151	0.173	0.177	0.151	19.1
2-Methylphenol		1.054	1.271	1.155	1.142	1.102	1.145	7.1
Phenanthrene	1.068	1.130	1.211	1.213	1.173		1.159	5.3
Anthracene	1.059	1.135	1.239	1.239	1.202		1.175	6.6
Carbazole		0.975	1.062	1.077	1.067	1.024	1.041	4.0
Di-n-butylphthalate	0.781	0.956	1.164	1.172	1.208		1.056	17.3
Fluoranthene	1.006	1.201	1.377	1.266	1.251		1.220	11.1
Pyrene	1.115	1.317	1.441	1.338	1.276		1.298	9.2
Butylbenzylphthalate	0.219	0.292	0.430	0.415	0.476		0.366	29.1
3,3-Dichlorobenzidine		0.313	0.413	0.406	0.400	0.399	0.386	10.7
2,2-oxybis(1-Chloropropane)		1.673	1.907	1.707	1.657	1.584	1.706	7.1
Benzo(a)anthracene	1.107	1.254	1.413	1.329	1.310		1.283	8.8
Chrysene	1.111	1.194	1.328	1.263	1.236		1.226	6.6
Bis(2-ethylhexyl)phthalate	0.337	0.447	0.656	0.633	0.688		0.552	27.7
Di-n-octyl phthalate		0.640	0.886	0.933	1.091	1.159	0.942	21.5
Benzo(b)fluoranthene	0.948	1.114	1.275	1.305	1.261		1.181	12.7
Benzo(k)fluoranthene	1.012	1.118	1.265	1.256	1.306		1.191	10.3
Benzo(a)pyrene	0.919	1.078	1.210	1.202	1.250		1.132	12.0
Indeno(1,2,3-cd)pyrene	1.209	1.358	1.619	1.595	1.624		1.481	12.7
Dibenzo(a,h)anthracene	0.996	1.121	1.321	1.327	1.355		1.224	12.9
Benzo(g,h,i)perylene	1.027	1.139	1.306	1.297	1.299		1.213	10.4
Acetophenone		1.837	2.106	1.868	1.811	1.733	1.871	7.5
2,3,4,6-Tetrachlorophenol	0.185	0.240	0.306	0.312	0.327		0.274	21.9
1,4-Dioxane-d8	0.447	0.453	0.492	0.494	0.475		0.472	4.5
Pyridine-d5		1.224	1.394	1.361	1.318	1.267	1.313	5.2
Phenol-d5		1.376	1.625	1.512	1.493	1.455	1.492	6.1

All other compounds must meet a minimum RRF of 0.010.

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Bis-(2-Chloroethyl)ether-d8		0.903	1.011	0.921	0.899	0.865	0.920	5.9
2-Chlorophenol-d4	1.014	1.166	1.383	1.299	1.294		1.231	11.7
4-Methylphenol-d8		1.076	1.303	1.172	1.173	1.149	1.175	7.0
Nitrobenzene-d5	0.123	0.140	0.165	0.164	0.163		0.151	12.4
2-Nitrophenol-d4	0.079	0.100	0.141	0.143	0.154		0.123	26.2
2,4-Dichlorophenol-d3	0.223	0.265	0.313	0.303	0.305		0.282	13.5
4-Chloroaniline-d4		0.407	0.449	0.433	0.424	0.424	0.427	3.6
4-Methylphenol		1.161	1.363	1.250	1.214	1.188	1.235	6.4
Dimethylphthalate-d6	1.183	1.287	1.443	1.376	1.389		1.335	7.6
Acenaphthylene-d8	1.427	1.613	1.817	1.757	1.729		1.669	9.2
4-Nitrophenol-d4		0.178	0.243	0.261	0.280	0.289	0.250	17.5
Fluorene-d10	1.086	1.162	1.277	1.234	1.213		1.194	6.2
4,6-Dinitro-2-methylphenol-		0.053	0.079	0.089	0.108	0.122	0.090	29.8
Anthracene-d10	0.868	0.954	1.056	1.059	1.035		0.994	8.3
Pyrene-d10	0.850	1.038	1.185	1.092	1.062		1.045	11.7
Benzo(a)pyrene-d12	0.793	0.907	1.080	1.122	1.146		1.010	15.2
N-Nitroso-di-n-propylamine	0.734	0.829	0.978	0.866	0.856		0.853	10.3

All other compounds must meet a minimum RRF of 0.010.