284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CHEM02

Lab Code: ACE SDG No.: Q2637

Instrument ID: BNA_N Calibration Date(s): 07/18/2025 07/18/2025

Calibration Time(s): 12:38 15:55

LAB FILE ID: RRFAL1 = BN037520.D RRFAL2 = BN037521.D RRFAL3 = BN037522.D
RRFAL4 = BN037523.D RRFAL5 = BN037524.D RRFAL6 = BN037525.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.486	0.460	0.486	0.447	0.465		0.469	3.7
Benzaldehyde		0.897	0.926	0.780	0.533	0.293	0.686	39.1
Hexachloroethane	0.520	0.534	0.560	0.554	0.571		0.548	3.8
Nitrobenzene	0.311	0.340	0.341	0.365	0.355		0.342	5.9
Isophorone	0.563	0.613	0.641	0.670	0.639		0.625	6.4
2-Nitrophenol	0.118	0.148	0.161	0.179	0.184		0.158	16.9
2,4-Dimethylphenol	0.309	0.326	0.343	0.350	0.338		0.333	4.9
Bis(2-Chloroethoxy)methane	0.376	0.399	0.413	0.426	0.415		0.406	4.8
2,4-Dichlorophenol	0.254	0.286	0.297	0.306	0.305		0.290	7.4
Naphthalene	1.038	1.052	1.068	1.102	1.058		1.064	2.3
4-Chloroaniline		0.415	0.442	0.451	0.423	0.413	0.429	4.0
Hexachlorobutadiene	0.198	0.198	0.193	0.207	0.205		0.200	3.0
Phenol		1.465	1.537	1.543	1.556	1.474	1.515	2.8
Caprolactam		0.081	0.093	0.099	0.093	0.095	0.092	7.2
4-Chloro-3-methylphenol	0.258	0.290	0.318	0.323	0.306		0.299	8.8
2-Methylnaphthalene	0.669	0.721	0.746	0.771	0.724		0.726	5.2
Hexachlorocyclopentadiene		0.334	0.343	0.394	0.426	0.401	0.380	10.3
2,4,6-Trichlorophenol	0.281	0.333	0.362	0.389	0.395		0.352	13.3
2,4,5-Trichlorophenol	0.342	0.387	0.400	0.436	0.435		0.400	9.8
1,1-Biphenyl	1.393	1.496	1.511	1.588	1.535		1.505	4.7
2-Chloronaphthalene	1.078	1.172	1.167	1.212	1.208		1.167	4.6
2-Nitroaniline	0.205	0.257	0.289	0.325	0.319		0.279	17.8
Bis(2-Chloroethyl)ether		1.223	1.267	1.243	1.254	1.170	1.231	3.1
Dimethylphthalate	1.294	1.366	1.430	1.504	1.401		1.399	5.6
2,6-Dinitrotoluene	0.202	0.243	0.277	0.301	0.307		0.266	16.5
Acenaphthylene	1.760	1.914	1.939	2.000	1.909		1.905	4.6
3-Nitroaniline		0.251	0.288	0.292	0.253	0.232	0.263	9.9
Acenaphthene	1.175	1.234	1.244	1.287	1.249		1.237	3.3
2,4-Dinitrophenol		0.091	0.112	0.141	0.164	0.187	0.139	27.8
4-Nitrophenol		0.177	0.195	0.206	0.193	0.194	0.193	5.4
Dibenzofuran	1.625	1.715	1.755	1.787	1.695		1.715	3.6
2,4-Dinitrotoluene	0.291	0.359	0.416	0.449	0.431		0.389	16.6
Diethylphthalate	1.272	1.359	1.452	1.506	1.440		1.406	6.5
2-Chlorophenol	1.135	1.261	1.292	1.349	1.360		1.279	7.1

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	1.348	1.406	1.442	1.452	1.360		1.401	3.4
4-Chlorophenyl-phenylether	0.680	0.683	0.704	0.708	0.687	0.648	0.685	3.1
4-Nitroaniline		0.247	0.295	0.279	0.228	0.201	0.250	15.1
4,6-Dinitro-2-methylphenol		0.092	0.106	0.125	0.133	0.141	0.119	16.9
N-Nitrosodiphenylamine	0.572	0.616	0.623	0.660	0.639		0.622	5.2
1,2,4,5-Tetrachlorobenzene	0.562	0.594	0.586	0.629	0.613		0.597	4.3
4-Bromophenyl-phenylether	0.199	0.213	0.218	0.242	0.230		0.221	7.6
Hexachlorobenzene	0.243	0.264	0.257	0.274	0.270		0.262	4.6
Atrazine		0.202	0.222	0.235	0.232	0.229	0.224	5.9
Pentachlorophenol		0.136	0.146	0.170	0.175	0.183	0.162	12.2
2-Methylphenol		1.112	1.164	1.168	1.168	1.115	1.145	2.5
Phenanthrene	1.084	1.140	1.145	1.177	1.131		1.135	2.9
Anthracene	1.076	1.167	1.172	1.204	1.144		1.153	4.2
Carbazole		0.979	1.034	1.080	1.017	0.984	1.019	4.1
Di-n-butylphthalate	1.016	1.167	1.260	1.367	1.323		1.227	11.4
Fluoranthene	1.124	1.283	1.219	1.336	1.274		1.247	6.5
Pyrene	1.219	1.320	1.268	1.378	1.324		1.302	4.6
Butylbenzylphthalate	0.325	0.412	0.436	0.540	0.545		0.452	20.5
3,3-Dichlorobenzidine		0.339	0.373	0.425	0.408	0.363	0.381	9.1
2,2-oxybis(1-Chloropropane)		1.798	1.813	1.815	1.799	1.681	1.781	3.2
Benzo(a)anthracene	1.221	1.294	1.270	1.401	1.314		1.300	5.1
Chrysene	1.194	1.254	1.214	1.257	1.251		1.234	2.3
Bis(2-ethylhexyl)phthalate	0.546	0.689	0.731	0.891	0.894		0.750	19.5
Di-n-octyl phthalate		0.969	1.121	1.329	1.383	1.358	1.232	14.6
Benzo(b)fluoranthene	1.035	1.121	1.211	1.271	1.238		1.175	8.2
Benzo(k)fluoranthene	1.100	1.187	1.219	1.314	1.279		1.220	6.8
Benzo(a)pyrene	0.973	1.075	1.174	1.227	1.189		1.128	9.1
Indeno(1,2,3-cd)pyrene	1.235	1.364	1.464	1.552	1.540		1.431	9.3
Dibenzo(a,h)anthracene	1.032	1.132	1.230	1.301	1.277		1.194	9.3
Benzo(g,h,i)perylene	1.031	1.105	1.205	1.225	1.225		1.158	7.5
Acetophenone		1.947	1.993	1.904	1.887	1.749	1.896	4.9
2,3,4,6-Tetrachlorophenol	0.255	0.294	0.324	0.346	0.347		0.313	12.5
1,4-Dioxane-d8	0.391	0.427	0.436	0.421	0.435		0.422	4.3
Pyridine-d5		1.205	1.249	1.216	1.264	1.150	1.217	3.6
Phenol-d5		1.425	1.495	1.508	1.508	1.430	1.474	2.9

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl)ether-d8		0.885	0.899	0.909	0.921	0.845	0.892	3.3
2-Chlorophenol-d4	1.113	1.235	1.281	1.310	1.338		1.255	7.0
4-Methylphenol-d8		1.176	1.243	1.234	1.229	1.179	1.212	2.6
Nitrobenzene-d5	0.126	0.143	0.153	0.165	0.164		0.150	11.1
2-Nitrophenol-d4	0.100	0.122	0.138	0.159	0.171		0.138	20.4
2,4-Dichlorophenol-d3	0.245	0.279	0.297	0.312	0.307		0.288	9.4
4-Chloroaniline-d4		0.414	0.433	0.451	0.425	0.418	0.428	3.5
4-Methylphenol		1.196	1.267	1.270	1.271	1.183	1.237	3.6
Dimethylphthalate-d6	1.302	1.405	1.453	1.512	1.425		1.420	5.4
Acenaphthylene-d8	1.488	1.640	1.694	1.776	1.734		1.666	6.7
4-Nitrophenol-d4		0.231	0.269	0.291	0.280	0.282	0.270	8.7
Fluorene-d10	1.171	1.213	1.249	1.287	1.207		1.226	3.6
4,6-Dinitro-2-methylphenol-		0.078	0.093	0.117	0.128	0.138	0.111	22.4
Anthracene-d10	0.904	0.977	1.003	1.041	0.994		0.984	5.1
Pyrene-d10	0.941	1.057	1.029	1.152	1.075		1.051	7.3
Benzo(a)pyrene-d12	0.863	0.957	1.031	1.094	1.098		1.009	9.9
N-Nitroso-di-n-propylamine	0.776	0.886	0.929	0.912	0.905		0.881	6.9

All other compounds must meet a minimum RRF of 0.010.