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

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1584 SAS No.: Q1584 SDG No.: Q1584

Instrument ID: BNA_M Calibration Date(s): 03/14/2025 03/14/2025

Calibration Time(s): 10:39 14:03

LAB FILE ID: RRFAL1 = BM049718.D RRFAL2 = BM049719.D RRFAL3 = BM049720.D
RRFAL4 = BM049721.D RRFAL5 = BM049722.D RRFAL6 = BM049723.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.490	0.521	0.576	0.504	0.499		0.518	6.6
Benzaldehyde		0.973	1.160	0.958	0.768	0.462	0.864	30.6
Hexachloroethane	0.498	0.516	0.613	0.566	0.559		0.550	8.2
Nitrobenzene	0.352	0.351	0.413	0.394	0.392		0.380	7.2
Isophorone	0.662	0.670	0.806	0.786	0.773		0.740	9.2
2-Nitrophenol	0.148	0.163	0.200	0.198	0.201		0.182	13.6
2,4-Dimethylphenol	0.304	0.308	0.367	0.349	0.347		0.335	8.2
Bis(2-Chloroethoxy)methane	0.429	0.422	0.497	0.471	0.460		0.456	6.8
2,4-Dichlorophenol	0.309	0.323	0.382	0.377	0.384		0.355	10.2
Naphthalene	0.952	0.951	1.119	1.088	1.086		1.039	7.8
4-Chloroaniline		0.390	0.472	0.457	0.434	0.403	0.431	8.1
Hexachlorobutadiene	0.230	0.235	0.271	0.263	0.274		0.255	8.1
Phenol		1.448	1.769	1.716	1.747	1.711	1.678	7.8
Caprolactam		0.086	0.112	0.108	0.102	0.097	0.101	10.2
4-Chloro-3-methylphenol	0.269	0.283	0.349	0.346	0.347		0.319	12.4
2-Methylnaphthalene	0.699	0.695	0.843	0.820	0.822		0.776	9.3
Hexachlorocyclopentadiene		0.344	0.423	0.440	0.479	0.491	0.435	13.4
2,4,6-Trichlorophenol	0.342	0.365	0.455	0.458	0.492		0.422	15.4
2,4,5-Trichlorophenol	0.367	0.391	0.492	0.494	0.524		0.454	15.4
1,1-Biphenyl	1.339	1.346	1.593	1.560	1.582		1.484	8.7
2-Chloronaphthalene	1.064	1.080	1.262	1.222	1.246		1.175	8.1
2-Nitroaniline	0.234	0.249	0.319	0.316	0.320		0.288	14.8
Bis(2-Chloroethyl)ether		1.225	1.472	1.376	1.354	1.300	1.345	6.8
Dimethylphthalate	1.360	1.335	1.572	1.501	1.498		1.453	7.0
2,6-Dinitrotoluene	0.220	0.239	0.300	0.301	0.309		0.274	15.1
Acenaphthylene	1.550	1.581	1.892	1.845	1.883		1.750	9.7
3-Nitroaniline		0.232	0.291	0.279	0.266	0.234	0.260	10.2
Acenaphthene	1.121	1.135	1.353	1.333	1.358		1.260	9.6
2,4-Dinitrophenol		0.108	0.152	0.173	0.194	0.211	0.167	23.9
4-Nitrophenol		0.173	0.210	0.212	0.198	0.165	0.192	11.2
Dibenzofuran	1.629	1.629	1.901	1.834	1.884		1.775	7.7
2,4-Dinitrotoluene	0.329	0.354	0.436	0.430	0.429		0.396	12.7
Diethylphthalate	1.283	1.302	1.519	1.459	1.429		1.398	7.3
2-Chlorophenol	1.118	1.141	1.396	1.332	1.345		1.267	10.1

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	1.350	1.376	1.686	1.687	1.599		1.540	10.8
4-Chlorophenyl-phenylether	0.720	0.740	0.908	0.936	0.963		0.853	13.4
4-Nitroaniline		0.242	0.304	0.275	0.234	0.177	0.246	19.4
4,6-Dinitro-2-methylphenol		0.100	0.131	0.141	0.159	0.164	0.139	18.5
N-Nitrosodiphenylamine	0.516	0.533	0.645	0.642	0.698		0.607	12.9
1,2,4,5-Tetrachlorobenzene	0.619	0.634	0.753	0.771	0.849		0.725	13.4
4-Bromophenyl-phenylether	0.193	0.205	0.245	0.254	0.298		0.239	17.4
Hexachlorobenzene	0.225	0.232	0.277	0.289	0.326		0.270	15.6
Atrazine		0.205	0.251	0.249	0.246	0.218	0.234	8.9
Pentachlorophenol		0.123	0.159	0.178	0.200	0.211	0.174	20.0
2-Methylphenol		1.015	1.287	1.261	1.282	1.281	1.225	9.6
Phenanthrene	0.979	1.002	1.213	1.226	1.239		1.132	11.5
Anthracene	0.971	1.014	1.231	1.235	1.208		1.132	11.3
Carbazole		0.884	1.055	1.063	1.081	0.771	0.971	14.1
Di-n-butylphthalate	0.969	1.026	1.232	1.253	1.140		1.124	11.1
Fluoranthene	1.117	1.209	1.502	1.505	1.543		1.375	14.3
Pyrene	1.189	1.313	1.633	1.614	1.544		1.459	13.5
Butylbenzylphthalate	0.362	0.400	0.506	0.523	0.541		0.466	17.2
3,3-Dichlorobenzidine		0.326	0.425	0.459	0.448	0.414	0.414	12.6
2,2-oxybis(1-Chloropropane)		1.578	1.870	1.737	1.676	1.518	1.676	8.2
Benzo(a)anthracene	1.191	1.235	1.486	1.490	1.487		1.378	11.0
Chrysene	1.042	1.117	1.339	1.342	1.357		1.239	12.0
Bis(2-ethylhexyl)phthalate	0.547	0.600	0.755	0.775	0.766		0.689	15.5
Di-n-octyl phthalate		0.962	1.327	1.521	1.576	1.198	1.317	19.0
Benzo(b)fluoranthene	1.076	1.161	1.484	1.537	1.614		1.374	17.5
Benzo(k)fluoranthene	1.050	1.167	1.492	1.555	1.614		1.376	18.2
Benzo(a)pyrene	0.957	1.029	1.319	1.338	1.435		1.215	17.2
Indeno(1,2,3-cd)pyrene	1.091	1.105	1.368	1.352	1.613		1.306	16.6
Dibenzo(a,h)anthracene	0.873	0.886	1.120	1.102	1.319		1.060	17.5
Benzo(g,h,i)perylene	0.837	0.835	1.013	0.982	1.179		0.969	14.7
Acetophenone		1.847	2.297	2.210	2.066	1.911	2.066	9.3
2,3,4,6-Tetrachlorophenol	0.294	0.318	0.402	0.408	0.445		0.373	17.2
1,4-Dioxane-d8	0.459	0.468	0.542	0.483	0.476		0.486	6.8
Pyridine-d5		1.331	1.612	1.521	1.528	1.474	1.493	6.9
Phenol-d5		1.373	1.695	1.668	1.725	1.715	1.635	9.1

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl)ether-d8		0.953	1.111	1.049	1.024	0.964	1.020	6.4
2-Chlorophenol-d4	1.054	1.097	1.356	1.309	1.322		1.228	11.5
4-Methylphenol-d8		1.066	1.343	1.326	1.317	1.297	1.270	9.1
Nitrobenzene-d5	0.131	0.138	0.165	0.162	0.164		0.152	10.6
2-Nitrophenol-d4	0.130	0.139	0.178	0.182	0.193		0.164	17.0
2,4-Dichlorophenol-d3	0.290	0.315	0.388	0.385	0.401		0.356	14.0
4-Chloroaniline-d4		0.411	0.494	0.475	0.458	0.437	0.455	7.1
4-Methylphenol		1.143	1.429	1.415	1.396	1.370	1.351	8.7
Dimethylphthalate-d6	1.346	1.347	1.591	1.534	1.553		1.474	8.0
Acenaphthylene-d8	1.474	1.539	1.863	1.847	1.863		1.717	11.3
4-Nitrophenol-d4		0.212	0.267	0.267	0.262	0.246	0.251	9.3
Fluorene-d10	1.143	1.181	1.403	1.393	1.449		1.314	10.7
4,6-Dinitro-2-methylphenol-		0.083	0.116	0.127	0.146	0.154	0.125	22.3
Anthracene-d10	0.855	0.888	1.083	1.092	1.157		1.015	13.2
Pyrene-d10	0.947	1.051	1.317	1.315	1.484		1.223	17.9
Benzo(a)pyrene-d12	0.832	0.899	1.165	1.197	1.285		1.076	18.4
N-Nitroso-di-n-propylamine	0.935	0.962	1.218	1.165	1.059		1.068	11.6

All other compounds must meet a minimum RRF of 0.010.