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

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: BNA_P Calibration Date(s): 03/12/2025 03/12/2025

Calibration Time(s): 16:17 21:02

LAB FILE ID: RRF2.5 = BP024160.D RRF005 = BP024161.D RRF010 = BP024162.D
RRF020 = BP024163.D RRF040 = BP024164.D RRF050 = BP024165.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.158	1.194	1.307	1.211	1.291	1.253	5.1
Benzaldehyde		0.971	0.949	0.930	0.780	0.751	0.809	18.2
Phenol-d6		1.518	1.581	1.747	1.631	1.749	1.675	5.9
Phenol		1.579	1.632	1.754	1.628	1.744	1.691	4.5
bis(2-Chloroethyl)ether		1.286	1.317	1.407	1.273	1.341	1.334	3.5
2-Chlorophenol		1.257	1.310	1.413	1.306	1.391	1.353	4.5
2-Methylphenol		0.932	0.997	1.120	1.038	1.116	1.061	7.0
2,2-oxybis(1-Chloropropane)		1.374	1.367	1.434	1.293	1.365	1.361	3.1
Acetophenone		0.483	0.490	0.531	0.496	0.508	0.506	3.4
3+4-Methylphenols		1.265	1.360	1.530	1.433	1.547	1.457	7.5
n-Nitroso-di-n-propylamine	0.869	0.910	0.956	1.048	0.962	1.026	0.972	6.2
Nitrobenzene-d5		0.330	0.338	0.366	0.351	0.362	0.354	4.3
Hexachloroethane		0.533	0.512	0.547	0.508	0.533	0.529	2.7
Nitrobenzene		0.330	0.336	0.362	0.341	0.355	0.350	3.9
Isophorone		0.532	0.562	0.631	0.602	0.635	0.608	7.3
2-Nitrophenol		0.126	0.141	0.167	0.171	0.182	0.167	14.9
2,4-Dimethylphenol		0.186	0.198	0.220	0.215	0.223	0.215	7.9
bis(2-Chloroethoxy)methane		0.414	0.418	0.438	0.418	0.429	0.427	2.5
2,4-Dichlorophenol		0.237	0.263	0.298	0.296	0.306	0.291	10.2
Naphthalene		1.041	1.037	1.099	1.029	1.069	1.060	2.4
4-Chloroaniline		0.344	0.356	0.397	0.377	0.394	0.379	5.6
Hexachlorobutadiene		0.177	0.178	0.187	0.180	0.187	0.185	3.4
Caprolactam		0.072	0.079	0.097	0.097	0.107	0.095	15.6
4-Chloro-3-methylphenol		0.261	0.283	0.324	0.314	0.333	0.313	9.8
2-Methylnaphthalene		0.689	0.684	0.737	0.704	0.731	0.716	3.3
Hexachlorocyclopentadiene		0.169	0.189	0.214	0.212	0.220	0.208	10.6
2,4,6-Trichlorophenol		0.291	0.324	0.379	0.372	0.391	0.367	12.0
2-Fluorobiphenyl		1.364	1.358	1.420	1.319	1.335	1.356	2.4
2,4,5-Trichlorophenol		0.331	0.362	0.414	0.409	0.422	0.403	10.2
1,1-Biphenyl		1.467	1.475	1.566	1.462	1.493	1.503	2.6
2-Chloronaphthalene		1.108	1.100	1.180	1.095	1.115	1.130	3.0
2-Nitroaniline		0.228	0.252	0.300	0.292	0.311	0.289	12.3
Dimethylphthalate		1.351	1.349	1.459	1.358	1.417	1.399	3.3
Acenaphthylene		1.586	1.628	1.776	1.661	1.749	1.710	4.9

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.248	0.266	0.303	0.294	0.312	0.294	9.4
3-Nitroaniline		0.253	0.276	0.328	0.322	0.344	0.318	12.2
Acenaphthene		1.057	1.056	1.136	1.061	1.096	1.093	3.2
2,4-Dinitrophenol			0.108	0.146	0.160	0.179	0.156	20.0
4-Nitrophenol		0.187	0.218	0.271	0.277	0.299	0.266	17.4
Dibenzofuran		1.759	1.751	1.835	1.711	1.768	1.770	2.2
2,4-Dinitrotoluene		0.295	0.334	0.400	0.394	0.423	0.389	14.2
Diethylphthalate		1.297	1.336	1.437	1.358	1.422	1.394	4.5
4-Chlorophenyl-phenylether		0.658	0.660	0.696	0.658	0.685	0.676	2.5
Fluorene		1.309	1.343	1.442	1.345	1.407	1.379	3.4
4-Nitroaniline		0.246	0.292	0.348	0.343	0.362	0.334	14.2
4,6-Dinitro-2-methylphenol			0.085	0.111	0.120	0.127	0.119	15.9
n-Nitrosodiphenylamine		0.564	0.583	0.629	0.600	0.617	0.607	4.3
2,4,6-Tribromophenol		0.203	0.222	0.256	0.252	0.270	0.252	11.7
4-Bromophenyl-phenylether		0.206	0.207	0.222	0.217	0.224	0.220	4.6
Hexachlorobenzene		0.248	0.249	0.263	0.254	0.263	0.260	3.8
Atrazine		0.165	0.171	0.157	0.135	0.105	0.147	18.5
Pentachlorophenol		0.121	0.140	0.166	0.177	0.184	0.168	16.6
Phenanthrene		1.068	1.059	1.126	1.083	1.100	1.093	2.2
Anthracene		0.993	1.012	1.101	1.063	1.092	1.064	4.2
Carbazole		0.920	0.975	1.060	1.041	1.060	1.026	5.5
Di-n-butylphthalate		1.026	1.121	1.247	1.260	1.272	1.218	8.6
Fluoranthene		1.173	1.220	1.287	1.264	1.305	1.265	4.1
Pyrene		1.177	1.190	1.299	1.204	1.266	1.243	4.1
Terphenyl-d14		0.967	0.973	1.033	0.948	0.966	0.969	3.4
Butylbenzylphthalate		0.399	0.441	0.513	0.524	0.554	0.513	13.5
3,3-Dichlorobenzidine		0.340	0.369	0.429	0.428	0.434	0.417	10.9
Benzo(a)anthracene		1.194	1.194	1.291	1.208	1.261	1.243	3.5
Chrysene		1.185	1.159	1.224	1.158	1.212	1.195	2.4
Bis(2-ethylhexyl)phthalate		0.613	0.678	0.784	0.792	0.819	0.774	12.3
Di-n-octyl phthalate		0.922	1.033	1.224	1.272	1.357	1.240	16.0
Benzo(b)fluoranthene		1.103	1.116	1.258	1.190	1.244	1.206	5.9
Benzo(k)fluoranthene		1.092	1.136	1.213	1.130	1.203	1.180	5.1
Benzo(a)pyrene		0.953	0.959	1.065	1.029	1.094	1.049	6.8
Indeno(1,2,3-cd)pyrene		1.274	1.289	1.421	1.366	1.442	1.396	6.4

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Dibenzo(a,h)anthracene		1.063	1.083	1.184	1.137	1.191	1.161	6.0
Benzo(g,h,i)perylene		1.097	1.107	1.199	1.154	1.202	1.180	5.4
1,2,4,5-Tetrachlorobenzene		0.548	0.560	0.596	0.558	0.580	0.578	4.0
1,4-Dioxane		0.503	0.499	0.518	0.469	0.496	0.497	2.9
2,3,4,6-Tetrachlorophenol		0.316	0.323	0.365	0.356	0.371	0.356	7.5

All other compounds must meet a minimum RRF of 0.010.