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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q2437 SAS No.: Q2437 SDG No.: Q2437

Instrument ID: BNA_P Calibration Date/Time: 07/01/2025 11:57

Lab File ID: BP025052.D Init. Calib. Date(s): 06/30/2025 06/30/2025

EPA Sample No.: SSTD020674 Init. Calib. Time(s): 16:03 19:32

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.482	0.460	0.010	-4.7	40.0
Benzaldehyde	0.746	0.922	0.010	23.5	40.0
Phenol	1.581	1.581	0.080	0.0	20.0
Bis(2-Chloroethyl)ether	1.218	1.228	0.100	0.8	20.0
2-Chlorophenol	1.275	1.308	0.200	2.6	20.0
2-Methylphenol	1.204	1.189	0.010	-1.2	20.0
2,2-oxybis(1-Chloropropane)	1.684	1.683	0.010	-0.1	40.0
Acetophenone	1.954	2.035	0.060	4.2	20.0
4-Methylphenol	1.301	1.315	0.010	1.0	20.0
N-Nitroso-di-n-propylamine	0.893	0.962	0.050	7.8	30.0
Hexachloroethane	0.486	0.490	0.100	0.7	20.0
Nitrobenzene	0.311	0.318	0.050	2.1	25.0
Isophorone	0.642	0.658	0.050	2.6	25.0
2-Nitrophenol	0.137	0.142	0.050	3.6	25.0
2,4-Dimethylphenol	0.330	0.340	0.050	3.0	25.0
Bis(2-Chloroethoxy)methane	0.397	0.399	0.050	0.5	20.0
2,4-Dichlorophenol	0.297	0.299	0.060	0.7	20.0
Naphthalene	1.050	1.061	0.200	1.0	20.0
4-Chloroaniline	0.450	0.456	0.010	1.4	40.0
Hexachlorobutadiene	0.198	0.192	0.040	-3.3	30.0
Caprolactam	0.105	0.107	0.010	1.4	40.0
4-Chloro-3-methylphenol	0.296	0.312	0.040	5.4	25.0
2-Methylnaphthalene	0.748	0.759	0.100	1.5	20.0
Hexachlorocyclopentadiene	0.289	0.258	0.010	-10.5	40.0
2,4,6-Trichlorophenol	0.349	0.353	0.090	1.1	25.0
2,4,5-Trichlorophenol	0.388	0.400	0.100	2.9	25.0
1,1-Biphenyl	1.481	1.503	0.200	1.5	20.0
2-Chloronaphthalene	1.152	1.172	0.300	1.7	20.0
2-Nitroaniline	0.218	0.244	0.050	12.0	40.0
Dimethylphthalate	1.418	1.472	0.300	3.8	20.0
2,6-Dinitrotoluene	0.222	0.243	0.080	9.7	30.0
Acenaphthylene	1.907	1.969	0.400	3.2	20.0
3-Nitroaniline	0.260	0.272	0.010	4.8	40.0
Acenaphthene	1.232	1.262	0.200	2.4	20.0
2,4-Dinitrophenol	0.111	0.093	0.010	-15.7	40.0
4-Nitrophenol	0.192	0.197	0.010	2.2	40.0
Dibenzofuran	1.746	1.801	0.300	3.2	20.0
2,4-Dinitrotoluene	0.328	0.366	0.070	11.7	30.0
Diethylphthalate	1.385	1.433	0.300	3.5	20.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.411	1.452	0.200	2.9	20.0
4-Chlorophenyl-phenylether	0.697	0.697	0.100	0.0	20.0
4-Nitroaniline	0.256	0.290	0.010	13.3	40.0
4,6-Dinitro-2-methylphenol	0.095	0.082	0.010	-13.4	40.0
N-Nitrosodiphenylamine	0.592	0.601	0.050	1.5	20.0
1,2,4,5-Tetrachlorobenzene	0.590	0.578	0.100	-2.1	20.0
4-Bromophenyl-phenylether	0.210	0.211	0.070	0.4	20.0
Hexachlorobenzene	0.263	0.263	0.050	0.1	25.0
Atrazine	0.218	0.215	0.010	-1.0	25.0
Pentachlorophenol	0.159	0.146	0.010	-8.1	40.0
Phenanthrene	1.113	1.130	0.200	1.5	20.0
Anthracene	1.116	1.149	0.200	3.0	20.0
Carbazole	1.000	1.059	0.050	5.8	40.0
Di-n-butylphthalate	1.103	1.129	0.500	2.4	25.0
Fluoranthene	1.192	1.199	0.400	0.6	25.0
Pyrene	1.265	1.269	0.400	0.3	25.0
Butylbenzylphthalate	0.367	0.378	0.100	3.0	40.0
3,3-Dichlorobenzidine	0.366	0.359	0.010	-1.7	40.0
Benzo(a)anthracene	1.286	1.303	0.300	1.3	30.0
Chrysene	1.199	1.219	0.200	1.7	30.0
Bis(2-ethylhexyl)phthalate	0.616	0.635	0.200	2.9	40.0
Di-n-octyl phthalate	0.991	0.898	0.010	-9.4	40.0
Benzo(b)fluoranthene	1.179	1.194	0.200	1.3	25.0
Benzo(k)fluoranthene	1.176	1.203	0.200	2.3	25.0
Benzo(a)pyrene	1.110	1.145	0.200	3.1	20.0
Indeno(1,2,3-cd)pyrene	1.408	1.426	0.200	1.3	25.0
Dibenzo(a,h)anthracene	1.133	1.178	0.200	4.0	30.0
Benzo(g,h,i)perylene	1.157	1.165	0.200	0.7	30.0
2,3,4,6-Tetrachlorophenol	0.314	0.330	0.040	5.0	20.0
1,4-Dioxane-d8	0.447	0.453	0.010	1.4	25.0
Pyridine-d5	1.265	1.289	0.010	1.9	40.0
Phenol-d5	1.540	1.522	0.010	-1.2	25.0
Bis-(2-Chloroethyl)ether-d8	0.886	0.882	0.050	-0.5	25.0
2-Chlorophenol-d4	1.246	1.275	0.200	2.3	20.0
4-Methylphenol-d8	1.247	1.239	0.010	-0.7	20.0
Nitrobenzene-d5	0.134	0.137	0.050	2.3	20.0
2-Nitrophenol-d4	0.117	0.117	0.050	-0.2	30.0
2,4-Dichlorophenol-d3	0.297	0.302	0.060	1.4	20.0
4-Chloroaniline-d4	0.458	0.456	0.010	-0.4	40.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.437	1.500	0.300	4.4	20.0
Acenaphthylene-d8	1.682	1.743	0.400	3.6	20.0
4-Nitrophenol-d4	0.271	0.270	0.010	-0.4	40.0
Fluorene-d10	1.233	1.274	0.100	3.3	20.0
4,6-Dinitro-2-methylphenol-d2	0.087	0.073	0.010	-16.0	40.0
Anthracene-d10	0.962	0.984	0.300	2.4	20.0
Pyrene-d10	1.026	1.032	0.300	0.7	25.0
Benzo(a)pyrene-d12	1.006	1.029	0.010	2.3	20.0

All other compounds must meet a minimum RRF of 0.010.