

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1006 SAS No.: Q1006 SDG No.: Q1006

Instrument ID: BNA_M Calibration Date/Time: 01/14/2025 09:26

Lab File ID: BM049343.D Init. Calib. Date(s): 01/13/2025 01/13/2025

EPA Sample No.: SSTD020065 Init. Calib. Time(s): 13:05 16:20

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.530	0.592	0.010	11.8	40.0
Benzaldehyde	0.905	1.241	0.010	37.1	40.0
Phenol	1.746	1.908	0.080	9.3	20.0
Bis(2-Chloroethyl)ether	1.421	1.583	0.100	11.4	20.0
2-Chlorophenol	1.335	1.500	0.200	12.3	20.0
2-Methylphenol	1.275	1.363	0.010	6.9	20.0
2,2-oxybis(1-Chloropropane)	2.130	2.459	0.010	15.4	40.0
Acetophenone	2.126	2.415	0.060	13.6	20.0
4-Methylphenol	1.397	1.520	0.010	8.8	20.0
N-Nitroso-di-n-propylamine	1.148	1.312	0.050	14.2	30.0
Hexachloroethane	0.574	0.658	0.100	14.8	20.0
Nitrobenzene	0.395	0.443	0.050	12.1	25.0
Isophorone	0.768	0.835	0.050	8.8	25.0
2-Nitrophenol	0.187	0.208	0.050	11.2	25.0
2,4-Dimethylphenol	0.351	0.390	0.050	11.3	25.0
Bis(2-Chloroethoxy)methane	0.472	0.514	0.050	9.0	20.0
2,4-Dichlorophenol	0.347	0.388	0.060	12.0	20.0
Naphthalene	1.061	1.178	0.200	11.0	20.0
4-Chloroaniline	0.437	0.475	0.010	8.8	40.0
Hexachlorobutadiene	0.247	0.280	0.040	13.2	30.0
Caprolactam	0.103	0.111	0.010	7.5	40.0
4-Chloro-3-methylphenol	0.324	0.356	0.040	9.9	25.0
2-Methylnaphthalene	0.760	0.847	0.100	11.5	20.0
Hexachlorocyclopentadiene	0.415	0.417	0.010	0.4	40.0
2,4,6-Trichlorophenol	0.426	0.475	0.090	11.6	25.0
2,4,5-Trichlorophenol	0.456	0.504	0.100	10.5	25.0
1,1-Biphenyl	1.464	1.624	0.200	10.9	20.0
2-Chloronaphthalene	1.171	1.319	0.300	12.6	20.0
2-Nitroaniline	0.309	0.349	0.050	12.8	40.0
Dimethylphthalate	1.473	1.631	0.300	10.7	20.0
2,6-Dinitrotoluene	0.275	0.307	0.080	11.9	30.0
Acenaphthylene	1.742	1.947	0.400	11.8	20.0
3-Nitroaniline	0.270	0.301	0.010	11.6	40.0
Acenaphthene	1.245	1.381	0.200	11.0	20.0
2,4-Dinitrophenol	0.172	0.154	0.010	-10.4	40.0
4-Nitrophenol	0.182	0.191	0.010	5.2	40.0
Dibenzofuran	1.768	1.991	0.300	12.7	20.0
2,4-Dinitrotoluene	0.408	0.456	0.070	11.9	30.0
Diethylphthalate	1.435	1.596	0.300	11.2	20.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.444	1.673	0.200	15.8	20.0
4-Chlorophenyl-phenylether	0.787	0.900	0.100	14.3	20.0
4-Nitroaniline	0.243	0.276	0.010	13.9	40.0
4,6-Dinitro-2-methylphenol	0.139	0.142	0.010	1.9	40.0
N-Nitrosodiphenylamine	0.593	0.657	0.050	10.7	20.0
1,2,4,5-Tetrachlorobenzene	0.692	0.768	0.100	10.9	20.0
4-Bromophenyl-phenylether	0.227	0.245	0.070	7.6	20.0
Hexachlorobenzene	0.264	0.284	0.050	7.2	25.0
Atrazine	0.243	0.262	0.010	8.1	25.0
Pentachlorophenol	0.175	0.173	0.010	-1.2	40.0
Phenanthrene	1.112	1.244	0.200	11.9	20.0
Anthracene	1.116	1.256	0.200	12.5	20.0
Carbazole	0.990	1.087	0.050	9.8	40.0
Di-n-butylphthalate	1.213	1.354	0.500	11.6	25.0
Fluoranthene	1.399	1.481	0.400	5.9	25.0
Pyrene	1.489	1.600	0.400	7.4	25.0
Butylbenzylphthalate	0.527	0.569	0.100	7.9	40.0
3,3-Dichlorobenzidine	0.375	0.415	0.010	10.9	40.0
Benzo(a)anthracene	1.394	1.560	0.300	11.9	30.0
Chrysene	1.272	1.430	0.200	12.4	30.0
Bis(2-ethylhexyl)phthalate	0.784	0.874	0.200	11.4	40.0
Di-n-octyl phthalate	1.457	1.489	0.010	2.2	40.0
Benzo(b)fluoranthene	1.339	1.511	0.200	12.9	25.0
Benzo(k)fluoranthene	1.335	1.547	0.200	15.9	25.0
Benzo(a)pyrene	1.209	1.367	0.200	13.1	20.0
Indeno(1,2,3-cd)pyrene	1.387	1.524	0.200	9.8	25.0
Dibenzo(a,h)anthracene	1.130	1.226	0.200	8.5	30.0
Benzo(g,h,i)perylene	1.035	1.140	0.200	10.1	30.0
2,3,4,6-Tetrachlorophenol	0.386	0.431	0.040	11.8	20.0
1,4-Dioxane-d8	0.483	0.561	0.010	16.0	25.0
Pyridine-d5	1.539	1.694	0.010	10.1	40.0
Phenol-d5	1.679	1.840	0.010	9.6	25.0
Bis-(2-Chloroethyl)ether-d8	1.118	1.269	0.050	13.5	25.0
2-Chlorophenol-d4	1.284	1.455	0.200	13.3	20.0
4-Methylphenol-d8	1.302	1.413	0.010	8.6	20.0
Nitrobenzene-d5	0.153	0.170	0.050	11.6	20.0
2-Nitrophenol-d4	0.170	0.187	0.050	9.5	30.0
2,4-Dichlorophenol-d3	0.348	0.390	0.060	12.1	20.0
4-Chloroaniline-d4	0.458	0.489	0.010	6.8	40.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.489	1.652	0.300	11.0	20.0
Acenaphthylene-d8	1.699	1.922	0.400	13.1	20.0
4-Nitrophenol-d4	0.247	0.256	0.010	3.8	40.0
Fluorene-d10	1.286	1.466	0.100	14.0	20.0
4,6-Dinitro-2-methylphenol-d2	0.127	0.125	0.010	-1.9	40.0
Anthracene-d10	0.989	1.113	0.300	12.5	20.0
Pyrene-d10	1.217	1.294	0.300	6.3	25.0
Benzo(a)pyrene-d12	1.074	1.209	0.010	12.6	20.0

All other compounds must meet a minimum RRF of 0.010.