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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1180 SAS No.: Q1180 SDG No.: Q1180

Instrument ID: BNA_M Calibration Date/Time: 01/30/2025 17:14

Lab File ID: BM049530.D Init. Calib. Date(s): 01/28/2025 01/28/2025

EPA Sample No.: SSTD020086 Init. Calib. Time(s): 10:52 14:08

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.567	0.507	0.010	-10.5	40.0
Benzaldehyde	0.891	1.069	0.010	20.0	40.0
Phenol	1.703	1.705	0.080	0.1	20.0
Bis(2-Chloroethyl)ether	1.389	1.360	0.100	-2.1	20.0
2-Chlorophenol	1.297	1.379	0.200	6.3	20.0
2-Methylphenol	1.194	1.267	0.010	6.1	20.0
2,2-oxybis(1-Chloropropane)	2.140	1.930	0.010	-9.8	40.0
Acetophenone	1.977	2.027	0.060	2.5	20.0
4-Methylphenol	1.288	1.383	0.010	7.3	20.0
N-Nitroso-di-n-propylamine	1.037	1.043	0.050	0.5	30.0
Hexachloroethane	0.570	0.593	0.100	4.0	20.0
Nitrobenzene	0.409	0.383	0.050	-6.2	25.0
Isophorone	0.731	0.762	0.050	4.3	25.0
2-Nitrophenol	0.185	0.205	0.050	10.9	25.0
2,4-Dimethylphenol	0.341	0.358	0.050	4.9	25.0
Bis(2-Chloroethoxy)methane	0.458	0.465	0.050	1.5	20.0
2,4-Dichlorophenol	0.342	0.366	0.060	6.9	20.0
Naphthalene	1.065	1.094	0.200	2.7	20.0
4-Chloroaniline	0.418	0.439	0.010	5.1	40.0
Hexachlorobutadiene	0.257	0.264	0.040	2.8	30.0
Caprolactam	0.094	0.124	0.010	30.9	40.0
4-Chloro-3-methylphenol	0.296	0.351	0.040	18.6	25.0
2-Methylnaphthalene	0.726	0.782	0.100	7.7	20.0
Hexachlorocyclopentadiene	0.432	0.368	0.010	-15.0	40.0
2,4,6-Trichlorophenol	0.435	0.468	0.090	7.7	25.0
2,4,5-Trichlorophenol	0.457	0.501	0.100	9.7	25.0
1,1-Biphenyl	1.517	1.493	0.200	-1.6	20.0
2-Chloronaphthalene	1.230	1.208	0.300	-1.8	20.0
2-Nitroaniline	0.309	0.330	0.050	6.8	40.0
Dimethylphthalate	1.457	1.522	0.300	4.5	20.0
2,6-Dinitrotoluene	0.262	0.308	0.080	17.5	30.0
Acenaphthylene	1.770	1.810	0.400	2.3	20.0
3-Nitroaniline	0.260	0.329	0.010	26.5	40.0
Acenaphthene	1.264	1.264	0.200	0.0	20.0
2,4-Dinitrophenol	0.162	0.169	0.010	4.0	40.0
4-Nitrophenol	0.176	0.214	0.010	21.7	40.0
Dibenzofuran	1.802	1.839	0.300	2.1	20.0
2,4-Dinitrotoluene	0.392	0.465	0.070	18.7	30.0
Diethylphthalate	1.383	1.523	0.300	10.1	20.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.456	1.485	0.200	2.0	20.0
4-Chlorophenyl-phenylether	0.790	0.801	0.100	1.4	20.0
4-Nitroaniline	0.240	0.332	0.010	38.2	40.0
4,6-Dinitro-2-methylphenol	0.138	0.135	0.010	-2.2	40.0
N-Nitrosodiphenylamine	0.596	0.610	0.050	2.3	20.0
1,2,4,5-Tetrachlorobenzene	0.737	0.709	0.100	-3.9	20.0
4-Bromophenyl-phenylether	0.228	0.239	0.070	4.7	20.0
Hexachlorobenzene	0.264	0.272	0.050	3.1	25.0
Atrazine	0.235	0.253	0.010	8.0	25.0
Pentachlorophenol	0.166	0.174	0.010	4.8	40.0
Phenanthrene	1.126	1.133	0.200	0.7	20.0
Anthracene	1.134	1.155	0.200	1.8	20.0
Carbazole	1.014	1.071	0.050	5.7	40.0
Di-n-butylphthalate	1.158	1.324	0.500	14.4	25.0
Fluoranthene	1.335	1.358	0.400	1.7	25.0
Pyrene	1.437	1.459	0.400	1.5	25.0
Butylbenzylphthalate	0.484	0.588	0.100	21.6	40.0
3,3-Dichlorobenzidine	0.380	0.419	0.010	10.4	40.0
Benzo(a)anthracene	1.405	1.424	0.300	1.4	30.0
Chrysene	1.305	1.350	0.200	3.5	30.0
Bis(2-ethylhexyl)phthalate	0.711	0.908	0.200	27.7	40.0
Di-n-octyl phthalate	1.223	1.408	0.010	15.1	40.0
Benzo(b)fluoranthene	1.296	1.308	0.200	0.9	25.0
Benzo(k)fluoranthene	1.310	1.311	0.200	0.1	25.0
Benzo(a)pyrene	1.216	1.209	0.200	-0.6	20.0
Indeno(1,2,3-cd)pyrene	1.507	1.565	0.200	3.8	25.0
Dibenzo(a,h)anthracene	1.221	1.267	0.200	3.7	30.0
Benzo(g,h,i)perylene	1.146	1.193	0.200	4.1	30.0
2,3,4,6-Tetrachlorophenol	0.372	0.438	0.040	17.7	20.0
1,4-Dioxane-d8	0.540	0.489	0.010	-9.5	25.0
Pyridine-d5	1.586	1.425	0.010	-10.2	40.0
Phenol-d5	1.623	1.661	0.010	2.4	25.0
Bis-(2-Chloroethyl)ether-d8	1.110	1.012	0.050	-8.8	25.0
2-Chlorophenol-d4	1.256	1.373	0.200	9.3	20.0
4-Methylphenol-d8	1.189	1.296	0.010	9.0	20.0
Nitrobenzene-d5	0.153	0.170	0.050	11.0	20.0
2-Nitrophenol-d4	0.167	0.197	0.050	17.8	30.0
2,4-Dichlorophenol-d3	0.341	0.374	0.060	9.7	20.0
4-Chloroaniline-d4	0.437	0.470	0.010	7.6	40.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.466	1.549	0.300	5.6	20.0
Acenaphthylene-d8	1.723	1.784	0.400	3.6	20.0
4-Nitrophenol-d4	0.241	0.267	0.010	11.0	40.0
Fluorene-d10	1.290	1.361	0.100	5.6	20.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.126	0.010	-0.3	40.0
Anthracene-d10	0.999	1.031	0.300	3.2	20.0
Pyrene-d10	1.169	1.176	0.300	0.6	25.0
Benzo(a)pyrene-d12	1.067	1.110	0.010	4.1	20.0

All other compounds must meet a minimum RRF of 0.010.