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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1837 SAS No.: Q1837 SDG No.: Q1837

Instrument ID: BNA_N Calibration Date/Time: 05/02/2025 13:16

Lab File ID: BN036956.D Init. Calib. Date(s): 04/15/2025 04/15/2025

EPA Sample No.: SSTD020367 Init. Calib. Time(s): 10:59 14:15

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.564	0.565	0.010	0.2	40.0
Benzaldehyde	0.889	1.191	0.010	34.1	40.0
Phenol	1.873	1.876	0.080	0.2	20.0
Bis(2-Chloroethyl)ether	1.486	1.464	0.100	-1.5	20.0
2-Chlorophenol	1.346	1.416	0.200	5.2	20.0
2-Methylphenol	1.355	1.359	0.010	0.3	20.0
2,2-oxybis(1-Chloropropane)	2.926	2.962	0.010	1.2	40.0
Acetophenone	2.387	2.506	0.060	5.0	20.0
4-Methylphenol	1.529	1.540	0.010	0.7	20.0
N-Nitroso-di-n-propylamine	1.383	1.464	0.050	5.9	30.0
Hexachloroethane	0.654	0.717	0.100	9.7	20.0
Nitrobenzene	0.475	0.509	0.050	7.0	25.0
Isophorone	0.824	0.839	0.050	1.7	25.0
2-Nitrophenol	0.178	0.189	0.050	6.0	25.0
2,4-Dimethylphenol	0.395	0.425	0.050	7.7	25.0
Bis(2-Chloroethoxy)methane	0.473	0.490	0.050	3.7	20.0
2,4-Dichlorophenol	0.306	0.325	0.060	6.1	20.0
Naphthalene	1.055	1.132	0.200	7.3	20.0
4-Chloroaniline	0.427	0.444	0.010	4.2	40.0
Hexachlorobutadiene	0.207	0.226	0.040	9.1	30.0
Caprolactam	0.103	0.101	0.010	-2.3	40.0
4-Chloro-3-methylphenol	0.375	0.403	0.040	7.5	25.0
2-Methylnaphthalene	0.743	0.794	0.100	6.8	20.0
Hexachlorocyclopentadiene	0.345	0.339	0.010	-1.8	40.0
2,4,6-Trichlorophenol	0.364	0.366	0.090	0.5	25.0
2,4,5-Trichlorophenol	0.397	0.409	0.100	3.1	25.0
1,1-Biphenyl	1.461	1.476	0.200	1.0	20.0
2-Chloronaphthalene	1.115	1.132	0.300	1.5	20.0
2-Nitroaniline	0.467	0.490	0.050	4.9	40.0
Dimethylphthalate	1.461	1.499	0.300	2.6	20.0
2,6-Dinitrotoluene	0.283	0.288	0.080	1.6	30.0
Acenaphthylene	1.720	1.765	0.400	2.6	20.0
3-Nitroaniline	0.286	0.294	0.010	2.6	40.0
Acenaphthene	1.267	1.332	0.200	5.1	20.0
2,4-Dinitrophenol	0.187	0.183	0.010	-2.2	40.0
4-Nitrophenol	0.314	0.368	0.010	17.4	40.0
Dibenzofuran	1.759	1.862	0.300	5.9	20.0
2,4-Dinitrotoluene	0.428	0.447	0.070	4.4	30.0
Diethylphthalate	1.568	1.684	0.300	7.4	20.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.437	1.525	0.200	6.1	20.0
4-Chlorophenyl-phenylether	0.694	0.736	0.100	6.2	20.0
4-Nitroaniline	0.275	0.328	0.010	18.9	40.0
4,6-Dinitro-2-methylphenol	0.142	0.141	0.010	-0.4	40.0
N-Nitrosodiphenylamine	0.606	0.629	0.050	3.8	20.0
1,2,4,5-Tetrachlorobenzene	0.571	0.566	0.100	-0.8	20.0
4-Bromophenyl-phenylether	0.195	0.202	0.070	3.7	20.0
Hexachlorobenzene	0.209	0.219	0.050	4.7	25.0
Atrazine	0.229	0.229	0.010	0.2	25.0
Pentachlorophenol	0.150	0.143	0.010	-4.5	40.0
Phenanthrene	1.122	1.174	0.200	4.7	20.0
Anthracene	1.137	1.192	0.200	4.8	20.0
Carbazole	1.036	1.109	0.050	7.1	40.0
Di-n-butylphthalate	1.308	1.434	0.500	9.7	25.0
Fluoranthene	1.393	1.271	0.400	-8.7	25.0
Pyrene	1.494	1.371	0.400	-8.3	25.0
Butylbenzylphthalate	0.593	0.608	0.100	2.6	40.0
3,3-Dichlorobenzidine	0.356	0.412	0.010	15.7	40.0
Benzo(a)anthracene	1.348	1.381	0.300	2.5	30.0
Chrysene	1.269	1.354	0.200	6.7	30.0
Bis(2-ethylhexyl)phthalate	0.848	0.950	0.200	12.1	40.0
Di-n-octyl phthalate	1.534	1.429	0.010	-6.8	40.0
Benzo(b)fluoranthene	1.252	1.270	0.200	1.4	25.0
Benzo(k)fluoranthene	1.261	1.285	0.200	1.9	25.0
Benzo(a)pyrene	1.131	1.227	0.200	8.5	20.0
Indeno(1,2,3-cd)pyrene	1.264	1.441	0.200	14.0	25.0
Dibenzo(a,h)anthracene	1.029	1.190	0.200	15.7	30.0
Benzo(g,h,i)perylene	0.964	1.112	0.200	15.4	30.0
2,3,4,6-Tetrachlorophenol	0.337	0.351	0.040	4.2	20.0
1,4-Dioxane-d8	0.497	0.481	0.010	-3.3	25.0
Pyridine-d5	1.510	1.553	0.010	2.8	40.0
Phenol-d5	1.758	1.727	0.010	-1.7	25.0
Bis-(2-Chloroethyl)ether-d8	1.284	1.290	0.050	0.5	25.0
2-Chlorophenol-d4	1.267	1.322	0.200	4.3	20.0
4-Methylphenol-d8	1.439	1.445	0.010	0.4	20.0
Nitrobenzene-d5	0.154	0.157	0.050	1.7	20.0
2-Nitrophenol-d4	0.162	0.169	0.050	4.1	30.0
2,4-Dichlorophenol-d3	0.299	0.314	0.060	5.0	20.0
4-Chloroaniline-d4	0.447	0.464	0.010	3.8	40.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.470	1.476	0.300	0.4	20.0
Acenaphthylene-d8	1.623	1.698	0.400	4.6	20.0
4-Nitrophenol-d4	0.280	0.289	0.010	3.3	40.0
Fluorene-d10	1.226	1.279	0.100	4.3	20.0
4,6-Dinitro-2-methylphenol-d2	0.132	0.128	0.010	-3.3	40.0
Anthracene-d10	0.962	1.014	0.300	5.4	20.0
Pyrene-d10	1.174	1.084	0.300	-7.7	25.0
Benzo(a)pyrene-d12	1.003	1.051	0.010	4.7	20.0

All other compounds must meet a minimum RRF of 0.010.