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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1124 SAS No.: Q1124 SDG No.: Q1124

Instrument ID: BNA_P Calibration Date/Time: 01/21/2025 06:01

Lab File ID: BP023675.D Init. Calib. Date(s): 01/14/2025 01/14/2025

EPA Sample No.: SSTD020772 Init. Calib. Time(s): 12:39 16:02

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.574	0.530	0.010	-7.6	40.0
Benzaldehyde	0.930	1.058	0.010	13.7	40.0
Phenol	1.835	1.734	0.080	-5.5	20.0
Bis(2-Chloroethyl)ether	1.452	1.352	0.100	-6.9	20.0
2-Chlorophenol	1.456	1.380	0.200	-5.2	20.0
2-Methylphenol	1.340	1.228	0.010	-8.4	20.0
2,2-oxybis(1-Chloropropane)	1.504	1.390	0.010	-7.6	40.0
Acetophenone	2.288	2.056	0.060	-10.1	20.0
4-Methylphenol	1.473	1.347	0.010	-8.5	20.0
N-Nitroso-di-n-propylamine	1.112	0.930	0.050	-16.4	30.0
Hexachloroethane	0.584	0.560	0.100	-4.1	20.0
Nitrobenzene	0.372	0.347	0.050	-6.7	25.0
Isophorone	0.755	0.633	0.050	-16.1	25.0
2-Nitrophenol	0.131	0.158	0.050	20.3	25.0
2,4-Dimethylphenol	0.364	0.333	0.050	-8.3	25.0
Bis(2-Chloroethoxy)methane	0.474	0.415	0.050	-12.3	20.0
2,4-Dichlorophenol	0.316	0.298	0.060	-5.4	20.0
Naphthalene	1.185	1.059	0.200	-10.6	20.0
4-Chloroaniline	0.466	0.416	0.010	-10.7	40.0
Hexachlorobutadiene	0.209	0.190	0.040	-9.1	30.0
Caprolactam	0.115	0.091	0.010	-21.4	40.0
4-Chloro-3-methylphenol	0.322	0.289	0.040	-10.1	25.0
2-Methylnaphthalene	0.801	0.696	0.100	-13.0	20.0
Hexachlorocyclopentadiene	0.255	0.285	0.010	12.0	40.0
2,4,6-Trichlorophenol	0.344	0.351	0.090	2.2	25.0
2,4,5-Trichlorophenol	0.382	0.396	0.100	3.6	25.0
1,1-Biphenyl	1.655	1.545	0.200	-6.7	20.0
2-Chloronaphthalene	1.289	1.203	0.300	-6.7	20.0
2-Nitroaniline	0.255	0.273	0.050	7.0	40.0
Dimethylphthalate	1.564	1.370	0.300	-12.4	20.0
2,6-Dinitrotoluene	0.240	0.244	0.080	1.4	30.0
Acenaphthylene	2.006	1.819	0.400	-9.3	20.0
3-Nitroaniline	0.283	0.293	0.010	3.7	40.0
Acenaphthene	1.405	1.274	0.200	-9.3	20.0
2,4-Dinitrophenol	0.076	0.072	0.010	-5.7	40.0
4-Nitrophenol	0.201	0.200	0.010	-0.5	40.0
Dibenzofuran	1.913	1.729	0.300	-9.6	20.0
2,4-Dinitrotoluene	0.363	0.358	0.070	-1.3	30.0
Diethylphthalate	1.542	1.323	0.300	-14.2	20.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.606	1.453	0.200	-9.6	20.0
4-Chlorophenyl-phenylether	0.785	0.688	0.100	-12.4	20.0
4-Nitroaniline	0.297	0.316	0.010	6.4	40.0
4,6-Dinitro-2-methylphenol	0.077	0.081	0.010	5.0	40.0
N-Nitrosodiphenylamine	0.670	0.604	0.050	-9.8	20.0
1,2,4,5-Tetrachlorobenzene	0.660	0.629	0.100	-4.8	20.0
4-Bromophenyl-phenylether	0.238	0.210	0.070	-12.0	20.0
Hexachlorobenzene	0.292	0.253	0.050	-13.6	25.0
Atrazine	0.232	0.208	0.010	-10.4	25.0
Pentachlorophenol	0.143	0.131	0.010	-7.9	40.0
Phenanthrene	1.254	1.125	0.200	-10.3	20.0
Anthracene	1.258	1.129	0.200	-10.3	20.0
Carbazole	1.045	1.044	0.050	-0.1	40.0
Di-n-butylphthalate	1.214	1.101	0.500	-9.3	25.0
Fluoranthene	1.267	1.153	0.400	-9.0	25.0
Pyrene	1.381	1.268	0.400	-8.1	25.0
Butylbenzylphthalate	0.363	0.423	0.100	16.6	40.0
3,3-Dichlorobenzidine	0.339	0.345	0.010	1.7	40.0
Benzo(a)anthracene	1.422	1.295	0.300	-8.9	30.0
Chrysene	1.324	1.217	0.200	-8.1	30.0
Bis(2-ethylhexyl)phthalate	0.619	0.655	0.200	5.8	40.0
Di-n-octyl phthalate	0.842	0.880	0.010	4.6	40.0
Benzo(b)fluoranthene	1.257	1.156	0.200	-8.0	25.0
Benzo(k)fluoranthene	1.377	1.232	0.200	-10.5	25.0
Benzo(a)pyrene	1.236	1.131	0.200	-8.5	20.0
Indeno(1,2,3-cd)pyrene	1.471	1.477	0.200	0.4	25.0
Dibenzo(a,h)anthracene	1.192	1.183	0.200	-0.8	30.0
Benzo(g,h,i)perylene	1.154	1.124	0.200	-2.6	30.0
2,3,4,6-Tetrachlorophenol	0.299	0.298	0.040	-0.1	20.0
1,4-Dioxane-d8	0.542	0.511	0.010	-5.7	25.0
Pyridine-d5	1.512	1.428	0.010	-5.6	40.0
Phenol-d5	1.722	1.633	0.010	-5.1	25.0
Bis-(2-Chloroethyl)ether-d8	1.009	0.940	0.050	-6.8	25.0
2-Chlorophenol-d4	1.360	1.313	0.200	-3.4	20.0
4-Methylphenol-d8	1.336	1.247	0.010	-6.7	20.0
Nitrobenzene-d5	0.153	0.151	0.050	-1.2	20.0
2-Nitrophenol-d4	0.100	0.132	0.050	31.6	30.0
2,4-Dichlorophenol-d3	0.305	0.288	0.060	-5.4	20.0
4-Chloroaniline-d4	0.487	0.440	0.010	-9.7	40.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.557	1.370	0.300	-12.0	20.0
Acenaphthylene-d8	1.852	1.674	0.400	-9.6	20.0
4-Nitrophenol-d4	0.259	0.258	0.010	-0.2	40.0
Fluorene-d10	1.347	1.185	0.100	-12.0	20.0
4,6-Dinitro-2-methylphenol-d2	0.065	0.068	0.010	4.9	40.0
Anthracene-d10	1.080	0.956	0.300	-11.5	20.0
Pyrene-d10	1.108	0.990	0.300	-10.7	25.0
Benzo(a)pyrene-d12	1.087	1.021	0.010	-6.1	20.0

All other compounds must meet a minimum RRF of 0.010.