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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1469 SAS No.: Q1469 SDG No.: Q1469

Instrument ID: BNA_P Calibration Date/Time: 03/04/2025 10:59

Lab File ID: BP024146.D Init. Calib. Date(s): 03/04/2025 03/04/2025

EPA Sample No.: SSTD020625 Init. Calib. Time(s): 09:37 13:01

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

COMPOUND	RRF	RRFAL3	MIN RRF	%D	MAX%D
1,4-Dioxane	0.530	0.598	0.010	12.9	40.0
Benzaldehyde	0.915	1.170	0.010	27.9	40.0
Phenol	1.844	1.972	0.080	7.0	20.0
Bis(2-Chloroethyl)ether	1.403	1.544	0.100	10.0	20.0
2-Chlorophenol	1.421	1.576	0.200	10.9	20.0
2-Methylphenol	1.348	1.424	0.010	5.7	20.0
2,2-oxybis(1-Chloropropane)	1.471	1.625	0.010	10.4	20.0
Acetophenone	2.169	2.330	0.060	7.4	20.0
4-Methylphenol	1.493	1.590	0.010	6.5	20.0
N-Nitroso-di-n-propylamine	1.017	1.119	0.050	10.0	20.0
Hexachloroethane	0.566	0.628	0.100	10.8	20.0
Nitrobenzene	0.363	0.402	0.050	10.7	20.0
Isophorone	0.680	0.743	0.050	9.2	20.0
2-Nitrophenol	0.187	0.209	0.050	12.1	25.0
2,4-Dimethylphenol	0.335	0.374	0.050	11.6	20.0
Bis(2-Chloroethoxy)methane	0.433	0.478	0.050	10.4	20.0
2,4-Dichlorophenol	0.310	0.344	0.060	11.2	20.0
Naphthalene	1.083	1.184	0.200	9.4	20.0
4-Chloroaniline	0.442	0.483	0.010	9.2	40.0
Hexachlorobutadiene	0.190	0.210	0.040	10.6	20.0
Caprolactam	0.118	0.119	0.010	1.3	40.0
4-Chloro-3-methylphenol	0.322	0.353	0.040	9.7	20.0
2-Methylnaphthalene	0.731	0.792	0.100	8.5	20.0
Hexachlorocyclopentadiene	0.314	0.351	0.010	11.9	40.0
2,4,6-Trichlorophenol	0.380	0.425	0.090	11.9	25.0
2,4,5-Trichlorophenol	0.414	0.462	0.100	11.6	20.0
1,1-Biphenyl	1.521	1.664	0.200	9.4	20.0
2-Chloronaphthalene	1.180	1.283	0.300	8.8	20.0
2-Nitroaniline	0.307	0.339	0.050	10.4	25.0
Dimethylphthalate	1.450	1.596	0.300	10.1	20.0
2,6-Dinitrotoluene	0.284	0.314	0.080	10.5	40.0
Acenaphthylene	1.821	1.983	0.400	8.9	20.0
3-Nitroaniline	0.331	0.357	0.010	8.0	40.0
Acenaphthene	1.282	1.391	0.200	8.5	25.0
2,4-Dinitrophenol	0.177	0.165	0.010	-6.6	40.0
4-Nitrophenol	0.206	0.217	0.010	5.7	40.0
Dibenzofuran	1.768	1.937	0.300	9.6	20.0
2,4-Dinitrotoluene	0.423	0.470	0.070	11.1	40.0
Diethylphthalate	1.435	1.587	0.300	10.6	20.0

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COMPOUND	RRF	RRFAL3	MIN RRF	%D	MAX%D
Fluorene	1.445	1.592	0.200	10.2	25.0
4-Chlorophenyl-phenylether	0.698	0.758	0.100	8.5	25.0
4-Nitroaniline	0.325	0.374	0.010	15.0	40.0
4,6-Dinitro-2-methylphenol	0.138	0.142	0.010	3.3	40.0
N-Nitrosodiphenylamine	0.610	0.678	0.050	11.2	20.0
1,2,4,5-Tetrachlorobenzene	0.604	0.666	0.100	10.2	20.0
4-Bromophenyl-phenylether	0.220	0.247	0.070	12.2	20.0
Hexachlorobenzene	0.268	0.291	0.050	8.7	25.0
Atrazine	0.221	0.252	0.010	14.2	40.0
Pentachlorophenol	0.168	0.173	0.010	3.1	40.0
Phenanthrene	1.143	1.244	0.200	8.8	20.0
Anthracene	1.152	1.263	0.200	9.6	20.0
Carbazole	1.046	1.175	0.050	12.3	40.0
Di-n-butylphthalate	1.218	1.371	0.500	12.5	20.0
Fluoranthene	1.168	1.328	0.400	13.7	20.0
Pyrene	1.259	1.413	0.400	12.3	20.0
Butylbenzylphthalate	0.508	0.582	0.100	14.7	40.0
3,3-Dichlorobenzidine	0.400	0.465	0.010	16.1	40.0
Benzo(a)anthracene	1.309	1.440	0.300	10.0	20.0
Chrysene	1.229	1.354	0.200	10.1	20.0
Bis(2-ethylhexyl)phthalate	0.762	0.861	0.200	13.1	40.0
Di-n-octyl phthalate	1.168	1.299	0.010	11.3	40.0
Benzo(b)fluoranthene	1.190	1.305	0.200	9.7	20.0
Benzo(k)fluoranthene	1.207	1.326	0.200	9.8	20.0
Benzo(a)pyrene	1.125	1.240	0.200	10.3	20.0
Indeno(1,2,3-cd)pyrene	1.487	1.639	0.200	10.2	20.0
Dibenzo(a,h)anthracene	1.208	1.333	0.200	10.4	20.0
Benzo(g,h,i)perylene	1.154	1.263	0.200	9.4	20.0
2,3,4,6-Tetrachlorophenol	0.340	0.377	0.040	10.7	40.0
1,4-Dioxane-d8	0.502	0.559	0.010	11.3	20.0
Pyridine-d5	1.444	1.593	0.010	10.3	40.0
Phenol-d5	1.775	1.888	0.010	6.4	20.0
Bis-(2-Chloroethyl)ether-d8	0.977	1.074	0.050	9.9	20.0
2-Chlorophenol-d4	1.362	1.525	0.200	12.0	20.0
4-Methylphenol-d8	1.401	1.487	0.010	6.1	20.0
Nitrobenzene-d5	0.161	0.179	0.050	11.0	20.0
2-Nitrophenol-d4	0.169	0.188	0.050	11.6	25.0
2,4-Dichlorophenol-d3	0.303	0.340	0.060	12.3	20.0
4-Chloroaniline-d4	0.463	0.503	0.010	8.6	40.0

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COMPOUND	RRF	RRFAL3	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.449	1.585	0.300	9.4	20.0
Acenaphthylene-d8	1.681	1.861	0.400	10.7	20.0
4-Nitrophenol-d4	0.297	0.310	0.010	4.4	40.0
Fluorene-d10	1.231	1.357	0.100	10.2	20.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.128	0.010	1.3	40.0
Anthracene-d10	0.976	1.084	0.300	11.0	20.0
Pyrene-d10	1.002	1.137	0.300	13.5	20.0
Benzo(a)pyrene-d12	1.037	1.144	0.010	10.3	20.0

All other compounds must meet a minimum RRF of 0.010.