284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CHEM02

Lab Code: ACE SDG No.: Q2693

Instrument ID: BNA_N Calibration Date/Time: 08/06/2025 13:50

Lab File ID: BN037570.D Init. Calib. Date(s): 07/18/2025 07/18/2025

EPA Sample No.: SSTD020377 Init. Calib. Time(s): 12:38 15:55

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.469	0.436	0.010	-6.9	40.0
Benzaldehyde	0.686	0.897	0.010	30.7	40.0
Phenol	1.515	1.462	0.080	-3.5	20.0
Bis(2-Chloroethyl)ether	1.231	1.178	0.100	-4.4	20.0
2-Chlorophenol	1.279	1.292	0.200	1.0	20.0
2-Methylphenol	1.145	1.099	0.010	-4.1	20.0
2,2-oxybis(1-Chloropropane)	1.781	1.781	0.010	0.0	40.0
Acetophenone	1.896	2.020	0.060	6.6	20.0
4-Methylphenol	1.237	1.223	0.010	-1.1	20.0
N-Nitroso-di-n-propylamine	0.881	0.913	0.050	3.5	30.0
Hexachloroethane	0.548	0.607	0.100	10.7	20.0
Nitrobenzene	0.342	0.360	0.050	5.1	25.0
Isophorone	0.625	0.626	0.050	0.1	25.0
2-Nitrophenol	0.158	0.152	0.050	-3.9	25.0
2,4-Dimethylphenol	0.333	0.355	0.050	6.5	25.0
Bis(2-Chloroethoxy)methane	0.406	0.396	0.050	-2.4	20.0
2,4-Dichlorophenol	0.290	0.299	0.060	3.1	20.0
Naphthalene	1.064	1.072	0.200	0.8	20.0
4-Chloroaniline	0.429	0.440	0.010	2.5	40.0
Hexachlorobutadiene	0.200	0.221	0.040	10.4	30.0
Caprolactam	0.092	0.088	0.010	-5.1	40.0
4-Chloro-3-methylphenol	0.299	0.324	0.040	8.4	25.0
2-Methylnaphthalene	0.726	0.748	0.100	3.0	20.0
Hexachlorocyclopentadiene	0.380	0.372	0.010	-2.1	40.0
2,4,6-Trichlorophenol	0.352	0.334	0.090	-5.2	25.0
2,4,5-Trichlorophenol	0.400	0.392	0.100	-2.1	25.0
1,1-Biphenyl	1.505	1.474	0.200	-2.0	20.0
2-Chloronaphthalene	1.167	1.125	0.300	-3.6	20.0
2-Nitroaniline	0.279	0.289	0.050	3.7	40.0
Dimethylphthalate	1.399	1.434	0.300	2.5	20.0
2,6-Dinitrotoluene	0.266	0.269	0.080	1.0	30.0
Acenaphthylene	1.905	1.910	0.400	0.3	20.0
3-Nitroaniline	0.263	0.285	0.010	8.2	40.0
Acenaphthene	1.237	1.268	0.200	2.5	20.0
2,4-Dinitrophenol	0.139	0.117	0.010	-15.5	40.0
4-Nitrophenol	0.193	0.243	0.010	25.6	40.0
Dibenzofuran	1.715	1.764	0.300	2.9	20.0
2,4-Dinitrotoluene	0.389	0.428	0.070	10.0	30.0
Diethylphthalate	1.406	1.501	0.300	6.7	20.0

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EPA Sample No.: SSTD020377 Init. Calib. Time(s): 12:38 15:55

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.401	1.518	0.200	8.3	20.0
4-Chlorophenyl-phenylether	0.685	0.745	0.100	8.8	20.0
4-Nitroaniline	0.250	0.317	0.010	26.9	40.0
4,6-Dinitro-2-methylphenol	0.119	0.106	0.010	-11.6	40.0
N-Nitrosodiphenylamine	0.622	0.621	0.050	-0.1	20.0
1,2,4,5-Tetrachlorobenzene	0.597	0.575	0.100	-3.7	20.0
4-Bromophenyl-phenylether	0.221	0.220	0.070	-0.4	20.0
Hexachlorobenzene	0.262	0.264	0.050	0.8	25.0
Atrazine	0.224	0.228	0.010	1.7	25.0
Pentachlorophenol	0.162	0.150	0.010	-7.2	40.0
Phenanthrene	1.135	1.169	0.200	3.0	20.0
Anthracene	1.153	1.198	0.200	4.0	20.0
Carbazole	1.019	1.088	0.050	6.8	40.0
Di-n-butylphthalate	1.227	1.329	0.500	8.3	25.0
Fluoranthene	1.247	1.159	0.400	-7.0	25.0
Pyrene	1.302	1.263	0.400	-3.0	25.0
Butylbenzylphthalate	0.452	0.450	0.100	-0.4	40.0
3,3-Dichlorobenzidine	0.381	0.377	0.010	-1.2	40.0
Benzo(a)anthracene	1.300	1.320	0.300	1.5	30.0
Chrysene	1.234	1.269	0.200	2.8	30.0
Bis(2-ethylhexyl)phthalate	0.750	0.765	0.200	2.0	40.0
Di-n-octyl phthalate	1.232	1.077	0.010	-12.6	40.0
Benzo(b)fluoranthene	1.175	1.202	0.200	2.2	25.0
Benzo(k)fluoranthene	1.220	1.183	0.200	-3.0	25.0
Benzo(a)pyrene	1.128	1.145	0.200	1.6	20.0
Indeno(1,2,3-cd)pyrene	1.431	1.473	0.200	2.9	25.0
Dibenzo(a,h)anthracene	1.194	1.237	0.200	3.6	30.0
Benzo(g,h,i)perylene	1.158	1.202	0.200	3.8	30.0
2,3,4,6-Tetrachlorophenol	0.313	0.329	0.040	5.0	20.0
1,4-Dioxane-d8	0.422	0.408	0.010	-3.4	25.0
Pyridine-d5	1.217	1.151	0.010	-5.4	40.0
Phenol-d5	1.474	1.408	0.010	-4.5	25.0
Bis-(2-Chloroethyl)ether-d8	0.892	0.875	0.050	-1.8	25.0
2-Chlorophenol-d4	1.255	1.231	0.200	-2.0	20.0
4-Methylphenol-d8	1.212	1.189	0.010	-1.9	20.0
Nitrobenzene-d5	0.150	0.151	0.050	0.5	20.0
2-Nitrophenol-d4	0.138	0.131	0.050	-5.0	30.0
2,4-Dichlorophenol-d3	0.288	0.289	0.060	0.5	20.0
4-Chloroaniline-d4	0.428	0.434	0.010	1.3	40.0

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.420	1.402	0.300	-1.3	20.0
Acenaphthylene-d8	1.666	1.661	0.400	-0.3	20.0
4-Nitrophenol-d4	0.270	0.270	0.010	-0.2	40.0
Fluorene-d10	1.226	1.262	0.100	3.0	20.0
4,6-Dinitro-2-methylphenol-d2	0.111	0.096	0.010	-13.3	40.0
Anthracene-d10	0.984	1.026	0.300	4.2	20.0
Pyrene-d10	1.051	0.996	0.300	-5.2	25.0
Benzo(a)pyrene-d12	1.009	1.019	0.010	1.0	20.0

All other compounds must meet a minimum RRF of 0.010.