284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CHEM02

Lab Code: ACE SDG No.: Q2939

Instrument ID: BNA_P Calibration Date/Time: 09/09/2025 10:31

Lab File ID: BP025692.D Init. Calib. Date(s): 09/08/2025 09/08/2025

EPA Sample No.: SSTD020678 Init. Calib. Time(s): 14:41 18:07

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.517	0.560	0.010	8.5	40.0
Benzaldehyde	0.744	0.975	0.010	31.1	40.0
Phenol	1.659	1.636	0.080	-1.4	20.0
Bis(2-Chloroethyl)ether	1.309	1.348	0.100	3.0	20.0
2-Chlorophenol	1.285	1.348	0.200	4.9	20.0
2-Methylphenol	1.272	1.266	0.010	-0.5	20.0
2,2-oxybis(1-Chloropropane)	2.076	2.140	0.010	3.1	40.0
Acetophenone	2.069	2.156	0.060	4.2	20.0
4-Methylphenol	1.379	1.382	0.010	0.2	20.0
N-Nitroso-di-n-propylamine	1.099	1.138	0.050	3.5	30.0
Hexachloroethane	0.576	0.596	0.100	3.5	20.0
Nitrobenzene	0.372	0.384	0.050	3.1	25.0
Isophorone	0.762	0.776	0.050	1.8	25.0
2-Nitrophenol	0.182	0.183	0.050	0.6	25.0
2,4-Dimethylphenol	0.373	0.368	0.050	-1.4	25.0
Bis(2-Chloroethoxy)methane	0.438	0.452	0.050	3.4	20.0
2,4-Dichlorophenol	0.306	0.315	0.060	2.8	20.0
Naphthalene	1.046	1.075	0.200	2.8	20.0
4-Chloroaniline	0.440	0.441	0.010	0.2	40.0
Hexachlorobutadiene	0.228	0.233	0.040	2.0	30.0
Caprolactam	0.126	0.126	0.010	0.1	40.0
4-Chloro-3-methylphenol	0.360	0.366	0.040	1.4	25.0
2-Methylnaphthalene	0.747	0.754	0.100	0.9	20.0
Hexachlorocyclopentadiene	0.302	0.271	0.010	-10.5	40.0
2,4,6-Trichlorophenol	0.389	0.395	0.090	1.6	25.0
2,4,5-Trichlorophenol	0.426	0.424	0.100	-0.5	25.0
1,1-Biphenyl	1.402	1.440	0.200	2.7	20.0
2-Chloronaphthalene	1.104	1.136	0.300	2.9	20.0
2-Nitroaniline	0.350	0.356	0.050	1.7	40.0
Dimethylphthalate	1.483	1.505	0.300	1.5	20.0
2,6-Dinitrotoluene	0.300	0.302	0.080	0.3	30.0
Acenaphthylene	1.859	1.889	0.400	1.7	20.0
3-Nitroaniline	0.267	0.296	0.010	10.9	40.0
Acenaphthene	1.194	1.211	0.200	1.4	20.0
2,4-Dinitrophenol	0.185	0.155	0.010	-16.1	40.0
4-Nitrophenol	0.204	0.192	0.010	-5.8	40.0
Dibenzofuran	1.708	1.749	0.300	2.4	20.0
2,4-Dinitrotoluene	0.450	0.464	0.070	3.0	30.0
Diethylphthalate	1.525	1.531	0.300	0.4	20.0

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.395	1.429	0.200	2.5	20.0
4-Chlorophenyl-phenylether	0.714	0.725	0.100	1.5	20.0
4-Nitroaniline	0.263	0.293	0.010	11.2	40.0
4,6-Dinitro-2-methylphenol	0.138	0.124	0.010	-10.2	40.0
N-Nitrosodiphenylamine	0.578	0.558	0.050	-3.5	20.0
1,2,4,5-Tetrachlorobenzene	0.595	0.606	0.100	1.9	20.0
4-Bromophenyl-phenylether	0.213	0.216	0.070	1.1	20.0
Hexachlorobenzene	0.244	0.246	0.050	0.9	25.0
Atrazine	0.237	0.250	0.010	5.4	25.0
Pentachlorophenol	0.156	0.150	0.010	-4.0	40.0
Phenanthrene	1.097	1.116	0.200	1.7	20.0
Anthracene	1.113	1.133	0.200	1.9	20.0
Carbazole	1.000	1.046	0.050	4.6	40.0
Di-n-butylphthalate	1.285	1.314	0.500	2.2	25.0
Fluoranthene	1.246	1.262	0.400	1.3	25.0
Pyrene	1.303	1.328	0.400	2.0	25.0
Butylbenzylphthalate	0.580	0.597	0.100	2.8	40.0
3,3-Dichlorobenzidine	0.429	0.446	0.010	4.1	40.0
Benzo(a)anthracene	1.332	1.350	0.300	1.4	30.0
Chrysene	1.254	1.287	0.200	2.7	30.0
Bis(2-ethylhexyl)phthalate	0.853	0.893	0.200	4.7	40.0
Di-n-octyl phthalate	1.350	1.420	0.010	5.2	40.0
Benzo(b)fluoranthene	1.171	1.204	0.200	2.8	25.0
Benzo(k)fluoranthene	1.188	1.237	0.200	4.2	25.0
Benzo(a)pyrene	1.125	1.151	0.200	2.3	20.0
Indeno(1,2,3-cd)pyrene	1.407	1.423	0.200	1.1	25.0
Dibenzo(a,h)anthracene	1.140	1.151	0.200	1.0	30.0
Benzo(g,h,i)perylene	1.141	1.144	0.200	0.2	30.0
2,3,4,6-Tetrachlorophenol	0.374	0.380	0.040	1.7	20.0
1,4-Dioxane-d8	0.489	0.538	0.010	10.1	25.0
Pyridine-d5	1.417	1.508	0.010	6.4	40.0
Phenol-d5	1.616	1.597	0.010	-1.2	25.0
Bis-(2-Chloroethyl)ether-d8	0.988	1.009	0.050	2.1	25.0
2-Chlorophenol-d4	1.258	1.304	0.200	3.7	20.0
4-Methylphenol-d8	1.338	1.334	0.010	-0.2	20.0
Nitrobenzene-d5	0.154	0.158	0.050	2.5	20.0
2-Nitrophenol-d4	0.175	0.177	0.050	1.4	30.0
2,4-Dichlorophenol-d3	0.315	0.323	0.060	2.4	20.0
4-Chloroaniline-d4	0.442	0.443	0.010	0.4	40.0

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.512	1.537	0.300	1.6	20.0
Acenaphthylene-d8	1.660	1.697	0.400	2.2	20.0
4-Nitrophenol-d4	0.251	0.243	0.010	-3.3	40.0
Fluorene-d10	1.259	1.284	0.100	2.0	20.0
4,6-Dinitro-2-methylphenol-d2	0.136	0.120	0.010	-11.5	40.0
Anthracene-d10	0.963	0.982	0.300	2.1	20.0
Pyrene-d10	1.095	1.108	0.300	1.2	25.0
Benzo(a)pyrene-d12	1.027	1.056	0.010	2.8	20.0

All other compounds must meet a minimum RRF of 0.010.