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

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4886 SAS No.: P4886 SDG No.: P4886

Instrument ID: BNA_P Calibration Date/Time: 11/19/2024 15:58

Lab File ID: BP023219.D Init. Calib. Date(s): 11/08/2024 11/08/2024

EPA Sample No.: SSTD020730 Init. Calib. Time(s): 18:53 22:58

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.481	0.552	0.010	14.8	40.0
Benzaldehyde	0.851	1.020	0.010	19.9	40.0
Phenol	1.544	1.589	0.080	2.9	20.0
Bis(2-Chloroethyl)ether	1.160	1.195	0.100	3.0	20.0
2-Chlorophenol	1.124	1.182	0.200	5.1	20.0
2-Methylphenol	1.153	1.143	0.010	-0.8	20.0
2,2-oxybis(1-Chloropropane)	1.314	1.420	0.010	8.1	40.0
Acetophenone	2.045	2.043	0.060	-0.1	20.0
4-Methylphenol	1.273	1.224	0.010	-3.9	20.0
N-Nitroso-di-n-propylamine	1.021	1.072	0.050	5.0	30.0
Hexachloroethane	0.544	0.591	0.100	8.7	20.0
Nitrobenzene	0.400	0.443	0.050	10.8	25.0
Isophorone	0.714	0.767	0.050	7.4	25.0
2-Nitrophenol	0.175	0.188	0.050	7.2	25.0
2,4-Dimethylphenol	0.378	0.419	0.050	10.8	25.0
Bis(2-Chloroethoxy)methane	0.393	0.436	0.050	11.0	20.0
2,4-Dichlorophenol	0.344	0.374	0.060	8.5	20.0
Naphthalene	0.972	1.031	0.200	6.1	20.0
4-Chloroaniline	0.402	0.399	0.010	-0.8	40.0
Hexachlorobutadiene	0.312	0.335	0.040	7.4	30.0
Caprolactam	0.102	0.102	0.010	-0.3	40.0
4-Chloro-3-methylphenol	0.370	0.392	0.040	5.8	25.0
2-Methylnaphthalene	0.734	0.771	0.100	5.1	20.0
Hexachlorocyclopentadiene	0.355	0.331	0.010	-6.5	40.0
2,4,6-Trichlorophenol	0.411	0.449	0.090	9.2	25.0
2,4,5-Trichlorophenol	0.443	0.472	0.100	6.4	25.0
1,1-Biphenyl	1.282	1.403	0.200	9.5	20.0
2-Chloronaphthalene	1.048	1.160	0.300	10.7	20.0
2-Nitroaniline	0.294	0.323	0.050	9.9	40.0
Dimethylphthalate	1.422	1.543	0.300	8.5	20.0
2,6-Dinitrotoluene	0.277	0.299	0.080	8.0	30.0
Acenaphthylene	1.520	1.677	0.400	10.3	20.0
3-Nitroaniline	0.238	0.252	0.010	5.8	40.0
Acenaphthene	1.104	1.229	0.200	11.4	20.0
2,4-Dinitrophenol	0.196	0.159	0.010	-18.8	40.0
4-Nitrophenol	0.253	0.317	0.010	25.0	40.0
Dibenzofuran	1.705	1.875	0.300	9.9	20.0
2,4-Dinitrotoluene	0.441	0.503	0.070	14.1	30.0
Diethylphthalate	1.406	1.564	0.300	11.3	20.0

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Instrument ID: BNA_P Calibration Date/Time: 11/19/2024 15:58

Lab File ID: BP023219.D Init. Calib. Date(s): 11/08/2024 11/08/2024

EPA Sample No.: SSTD020730 Init. Calib. Time(s): 18:53 22:58

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.396	1.530	0.200	9.6	20.0
4-Chlorophenyl-phenylether	0.822	0.900	0.100	9.5	20.0
4-Nitroaniline	0.222	0.256	0.010	15.3	40.0
4,6-Dinitro-2-methylphenol	0.128	0.120	0.010	-6.5	40.0
N-Nitrosodiphenylamine	0.462	0.518	0.050	12.1	20.0
1,2,4,5-Tetrachlorobenzene	0.675	0.744	0.100	10.2	20.0
4-Bromophenyl-phenylether	0.226	0.244	0.070	7.9	20.0
Hexachlorobenzene	0.285	0.315	0.050	10.4	25.0
Atrazine	0.223	0.238	0.010	6.4	25.0
Pentachlorophenol	0.177	0.184	0.010	4.1	40.0
Phenanthrene	0.944	1.037	0.200	9.8	20.0
Anthracene	0.949	1.054	0.200	11.0	20.0
Carbazole	0.828	0.909	0.050	9.7	40.0
Di-n-butylphthalate	0.919	1.075	0.500	17.0	25.0
Fluoranthene	1.061	1.199	0.400	13.0	25.0
Pyrene	1.140	1.365	0.400	19.7	25.0
Butylbenzylphthalate	0.375	0.441	0.100	17.4	40.0
3,3-Dichlorobenzidine	0.449	0.455	0.010	1.3	40.0
Benzo(a)anthracene	1.221	1.396	0.300	14.3	30.0
Chrysene	1.149	1.311	0.200	14.1	30.0
Bis(2-ethylhexyl)phthalate	0.533	0.626	0.200	17.3	40.0
Di-n-octyl phthalate	0.811	0.907	0.010	11.8	40.0
Benzo(b)fluoranthene	1.113	1.258	0.200	13.0	25.0
Benzo(k)fluoranthene	1.096	1.237	0.200	12.9	25.0
Benzo(a)pyrene	1.006	1.143	0.200	13.6	20.0
Indeno(1,2,3-cd)pyrene	1.402	1.508	0.200	7.6	25.0
Dibenzo(a,h)anthracene	1.138	1.221	0.200	7.2	30.0
Benzo(g,h,i)perylene	1.065	1.143	0.200	7.4	30.0
2,3,4,6-Tetrachlorophenol	0.433	0.488	0.040	12.7	20.0
1,4-Dioxane-d8	0.416	0.476	0.010	14.5	25.0
Pyridine-d5	1.236	1.294	0.010	4.7	40.0
Phenol-d5	1.479	1.483	0.010	0.3	25.0
Bis-(2-Chloroethyl)ether-d8	0.869	0.942	0.050	8.4	25.0
2-Chlorophenol-d4	1.083	1.112	0.200	2.7	20.0
4-Methylphenol-d8	1.217	1.196	0.010	-1.7	20.0
Nitrobenzene-d5	0.139	0.152	0.050	9.3	20.0
2-Nitrophenol-d4	0.166	0.182	0.050	9.4	30.0
2,4-Dichlorophenol-d3	0.348	0.370	0.060	6.4	20.0
4-Chloroaniline-d4	0.415	0.412	0.010	-0.6	40.0

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.441	1.564	0.300	8.5	20.0
Acenaphthylene-d8	1.504	1.678	0.400	11.6	20.0
4-Nitrophenol-d4	0.217	0.179	0.010	-17.5	40.0
Fluorene-d10	1.264	1.399	0.100	10.7	20.0
4,6-Dinitro-2-methylphenol-d2	0.120	0.114	0.010	-4.7	40.0
Anthracene-d10	0.847	0.938	0.300	10.8	20.0
Pyrene-d10	0.921	1.023	0.300	11.1	25.0
Benzo(a)pyrene-d12	0.953	1.088	0.010	14.2	20.0

All other compounds must meet a minimum RRF of 0.010.