



STATE OF CONNECTICUT
DEPARTMENT OF CONSUMER PROTECTION

Report of Test for: 1 - Set of Metric Weights 2 kilogram to 1 gram (21 Weights)

Submitted by:

ADVANCED SCALE
13 DELTA DRIVE UNIT 6
LONDONDERRY, NH 03053

TESTED BY: DEPT. OF CONSUMER PROTECTION, DIVISION OF FOOD AND STANDARDS - METROLOGY LABORATORY
9 WINDSOR AVENUE, WINDSOR, CT 06095

Manufacturer: Unknown
S/N: VT05-381

CT. TEST NO. 2019 - 68

The weights described above have been compared with the Standards of the State of Connecticut (Working Standards - Metric Set D), traceable to the International System of Units (SI), through the Rice Lake Certificate of Weight Calibration No. a2498509B, and were found to be appropriate for their intended use and to be accurate / (adjusted) to within CLASS F TOLERANCE as indicated on the attached tolerance table.

The following mass values reflect the as found and as left condition of weights as they were delivered for testing.

<u>DENOMINATION</u>	CLASS F TOLERANCE (± MILLIGRAM)	AS FOUND	AS LEFT	UNCERTAINTY (± MILLIGRAM)	K COVERAGE FACTOR
		CONVENTIONAL MASS CORRECTION (MILLIGRAM)	CONVENTIONAL MASS CORRECTION (MILLIGRAM)		
2 kg	200	42	SAME	13	2.02
2 kg *	200	34	SAME	13	2.02
2 kg **	200	0	SAME	13	2.02
2 kg ***	200	14	SAME	13	2.02
2 kg ****	200	31	SAME	13	2.02
500 g	70	-8.3	SAME	4.5	2.05
500 g *	70	3.3	SAME	4.5	2.05
500 g **	70	-6.8	SAME	4.5	2.05
500 g ***	70	9.7	SAME	4.5	2.05
500 g ****	70	-1.7	SAME	4.5	2.05
200 g	40	-0.6	SAME	2.5	2.02
200 g *	40	5.1	SAME	2.5	2.02
100 g	20	-1.1	SAME	1.3	2.02
50 g	10	2.24	SAME	0.64	2.02
20 g	4.0	-0.52	SAME	0.27	2.02
20 g *	4.0	-0.95	SAME	0.27	2.02
10 g	2.0	-0.80	SAME	0.16	2.02
5 g	1.5	0.836	SAME	0.095	2.02
2 g	1.1	0.428	SAME	0.081	2.02
2 g *	1.1	0.487	SAME	0.081	2.02
1 g	0.90	0.338	SAME	0.070	2.02



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Test Procedure: SOP #8, MODIFIED SUBSTITUTION

Balances used: PM5003, AT1005, AT106, UMT5 (METTLER TOLEDO balances)

Temperature: 21.6 °C to 21.8 °C, Humidity: 45 % to 46 %, Pressure: 759.2 mmHg to 759.3 mmHg

DATE RECEIVED: 03/22/2019

DATE OF TEST: 04/03/2019

Signing Authority

Ana Maria Feliciano

METROLOGIST: ANA MARIA FELICIANO

FOOD AND STANDARDS DIVISION

Notes:

- (1) This report relates only to the items listed in this report at the time of test.
- (2) The uncertainties are calculated according to the Guide to the Expression of Uncertainty in Measurement, where the expanded uncertainty is k times the root sum square of the Type A and Type B uncertainties. The coverage factor (k) defines a level of confidence of approximately 95 %.
- (3) The effect of air buoyancy has been evaluated and determined to be insignificant.
- (4) This report shall not be reproduced except in full, without written approval of the laboratory.
- (5) THE REPORT OF TEST IS INVALID WITHOUT THE OFFICIAL STATE OF CONNECTICUT WEIGHTS AND MEASURES SEAL AFFIXED.

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