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GOVERNOR

STATE OF MAINE
DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY
DIVISION OF QUALITY ASSURANCE AND REGULATIONS
28 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0028

Amanda E. Beal
COMMISSIONER

Celeste Poulin
Director

REPORT OF CALIBRATION
MAINE TEST NUMBER 8383ME

Weight Kit: 5 lb to 0.001 lb

SN: 6013

Date of Report: January 6, 2025

SUBMITTED BY:

Maine Scale Company
4 Washington St. North
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine by NIST SOP 8 (Medium Accuracy Calibrations of Mass Standards by Modified Substitution, May 2019) and were found to be or adjusted to within NIST Handbook 105-1 Class "F" tolerances. Weights received in good condition.

Standards of the State of Maine are traceable to the International System of Units (S.I.) through Oregon State test number OR-24-015-C. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2025. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the tabulation on the following page. Weights received in an out of tolerance condition will show a bold value in a "before adjustment" column if required.

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017. **SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.**

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
5 lb	32	230	15	---
5 lb *	28	230	15	---
5 lb **	48	230	15	---
5 lb ***	40	230	15	---
5 lb ****	52	230	15	---

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[https://stateofmaine-my.sharepoint.com/personal/bradford_bachelder_maine_gov/Documents/OldHomeDirectory/Metrology/Lab/CALIBRATIONS/Calibration 2025/Mass III Av Small/Maine Scale_6013_8383ME.doc](https://stateofmaine-my.sharepoint.com/personal/bradford_bachelder_maine_gov/Documents/OldHomeDirectory/Metrology/Lab/CALIBRATIONS/Calibration%2025/Mass%20III%20Av%20Small/Maine%20Scale_6013_8383ME.doc)

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Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
1 lb	12.6	70	5.8	---
1 lb *	52.6	70	5.8	---
1 lb **	30.6	70	5.8	---
1 lb ***	12.6	70	5.8	---
1 lb ****	3.6	70	5.8	---
0.5 lb	14.9	45	4.9	---
0.2 lb	7.2	18	1.2	---
0.2 lb *	7.8	18	1.2	---
0.1 lb	0.48	9.1	0.55	---
0.05 lb	0.96	4.5	0.28	---
0.02 lb	1.02	1.8	0.15	---
0.02 lb *	1.10	1.8	0.15	---
0.01 lb	0.665	1.5	0.10	---
0.005 lb	-0.867	1.2	0.086	---
0.002 lb	0.726	0.87	0.071	---
0.002 lb *	0.006	0.87	0.071	---
0.001 lb	0.295	0.70	0.049	---

Environmental conditions at time of test:

Temperature: 18.6 °C

Relative Humidity: 40.4 %

Barometric Pressure: 748.33 mmHg

Data reduction sheets are on file at the laboratory.

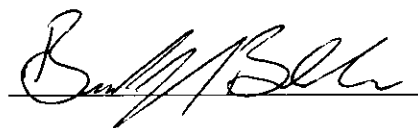
The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors determined by the standard deviation of the measurement process. Type A and Type B uncertainties are combined by the root sum squared method and multiplied by a coverage factor k (k=2.0) to represent approximately a 95% confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of 8.0 g/cm³ at 20 °C. The summation value of the measurement uncertainty and measurement result is used when comparing results to specified tolerances and issuing statements of compliance.



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Magnetism, Density, & Surface Finish: The calibration performed did not include testing to determine whether the test items met the maximum susceptibility requirements for magnetism, limits for density, or maximum values for surface finish. Where applicable, our laboratory uses an assumed density which is provided by the client or weight manufacturer. It is the responsibility of the requestor of the calibration to select classifications acceptable to their needs.

Date Received: November 26, 2025
Date of Test: December 12, 2025
Calibration Due: December 31, 2027
Calibration by: Bradford Bachelder



Bradford Bachelder, Metrologist

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Calibrations performed at 333 Cony Road, Augusta ME.



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