



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

PAUL R. LEPAGE
GOVERNOR

Walter E. Whitcomb
COMMISSIONER

Steve Giguere
Acting Director

REPORT OF CALIBRATION
MAINE TEST NUMBER 7047ME

3000 lb Weight Cart
 SN: 092112K
 Date of Report: May 26, 2017

SUBMITTED BY:

Advanced Scale, Inc
 13 Delta Dr Unit 6
 Londonderry, NH 03053

The mass standard described above has been compared with standards of the State of Maine by NIST SOP 33 using a modified double substitution weighing design. Standards of the state of Maine are traceable to the National Institute of Standards and Technology through NIST Test Number 822/263897-00. Weight cart was received in good condition.

The Maine Laboratory is recognized by NIST, WMD, under the "Laboratory Metrology Program", at Mass Echelon III for 2017. 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 following tabulation. The combined measurement uncertainty and result have been taken in to account when issuing statements of compliance.

Nominal	Correction as left lb	Uncertainty lb	Tolerance lb	Correction as Found lb
3000 lb	0.06	0.24	1.00	-0.93

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2010

SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.



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Environmental conditions at time of test conform to NIST SOP 33 requirements. Data reduction sheets and seal information 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, and (2) Type A, random errors determined by the D^*_2 method of converting average range of replicate measurements to 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 ($K=2.08$) representing approximately a 95% confidence interval. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of 8.0 g/cm^3 at 20 degrees C.

Date Received: May 26, 2017

Date of Test: May 26, 2017

Calibration due: May 31, 2018

Calibration by: Bradford Bachelder & Michael Picard


Bradford Bachelder, Metrologist

This report may not be reproduced, except in full, without written permission from this laboratory. This report must not be used to claim product certification, approval, or endorsement by NIST, The State of Maine, or any other state or federal government agency. Calibrations performed at 333 Cony Road, Augusta ME.





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MAINE TEST NUMBER 7048ME

Weight cart adjustment standards

SN: NY12 29

Date of Report: May 26, 2017

SUBMITTED BY:

Advanced Scale, Inc
13 Delta Dr Unit 6
Londonderry, NH 03053

The mass standards described above have been compared with standards of the State of Maine, by modified substitution (NIST SOP 8), and were found to be, or adjusted to within NIST Handbook 105-1 Class F tolerances.

Standards of the State of Maine are traceable to the National Institute of Standards and Technology through NH Test Number 2015-012. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2017. 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 following tabulation. Weights received in an out of tolerance condition will show a value in a "before adjustment" column if required.

Nominal	Correction mg	NIST Class F Tolerance mg	Uncertainty mg
8 oz - 1	15.0	45	5.9
8 oz - 2	10.0	45	5.9
8 oz - 3	8.0	45	5.9
8 oz - 4	17.0	45	5.9
8 oz - 5	19.0	45	5.9
8 oz - 6	12.0	45	5.9
8 oz - 7	17.0	45	5.9
8 oz - 8	25.0	45	5.9
8 oz - 9	14.0	45	5.9



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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 representing approximately a 95% confidence interval. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of 8.0 g/cm³ at 20 degrees C. The combined measurement uncertainty and result have been taken in to account when issuing statements of compliance.

Laboratory environmental conditions:

Temperature: 18.9 °C

Humidity: 46.1 %

Pressure: 744.92 mmHg.

Data reduction sheets are on file at the laboratory.

Standards were received in good condition.

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2005

Date Received: May 26, 2017

Date of Test: May 26, 2017

Calibration Due: May 31, 2018

Calibrated By: Bradford Bachelder



Bradford Bachelder
Metrologist

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