



JANET T. MILLS
GOVERNOR

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

Celeste Poulin
DIRECTOR

REPORT OF CALIBRATION
MAINE TEST NUMBER 7360ME
(7) 500 lb. & (30) 1000 lb. Cast Iron Weights
Date of Report: January 18, 2019

SUBMITTED BY:
Maine Scale Company
4 Washington Street North
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine, by modified substitution, 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 NIST Test Number 684/281510-11. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2019. 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 show a value in the "before adjustment" column. Weights received in good condition.

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 of 2.01 ($K=2.01$) representing 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/cm^3 at 20 degrees C. The combined measurement uncertainty and measurement result have been taken in to account when issuing statements of compliance.

Data reduction sheets are on file at the laboratory.

Page 1 of 3



PHONE: (207) 287-7587

NVLAP Lab Code 200414-0

FAX: (207) 287-7161

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Maine Scale Company
Maine Test Number 7360ME
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Serial Number	Nominal	Correction (grams)	NIST Class F Tolerance (grams)	Uncertainty (grams)	Before adjustment (grams)
73	500 lb.	12.6	23	3.1	---
74	500 lb.	-6.3	23	3.1	---
76	500 lb.	5.2	23	3.1	---
77	500 lb.	-2.1	23	3.1	---
78	500 lb.	3.3	23	3.1	---
79	500 lb.	1.6	23	3.1	---
80	500 lb.	-8.4	23	3.1	---
1	1000 lb.	-19.2	45	5.7	---
2	1000 lb.	19.7	45	5.7	---
3	1000 lb.	25.8	45	5.7	---
4	1000 lb.	4.1	45	5.7	---
5	1000 lb.	27.9	45	5.7	---
6	1000 lb.	7.4	45	5.7	---
7	1000 lb.	6.0	45	5.7	60.3
8	1000 lb.	3.9	45	5.7	49.3
9	1000 lb.	-16.5	45	5.7	59.7
10	1000 lb.	36.3	45	5.7	---
11	1000 lb.	-0.2	45	5.7	---
12	1000 lb.	34.6	45	5.7	---
13	1000 lb.	16.9	45	5.7	---
14	1000 lb.	-38.9	45	5.7	---
15	1000 lb.	-6.0	45	5.7	---
16	1000 lb.	1.4	45	5.7	---
60	1000 lb.	14.1	45	5.7	---
61	1000 lb.	5.0	45	5.7	---
62	1000 lb.	7.7	45	5.7	-57.2
63	1000 lb.	7.7	45	5.7	-54.4
64	1000 lb.	7.5	45	5.7	---
65	1000 lb.	-3.5	45	5.7	---
66	1000 lb.	9.1	45	5.7	---
67	1000 lb.	-32.5	45	5.7	-44.3
68	1000 lb.	-7.4	45	5.7	---
69	1000 lb.	35.6	45	5.7	---
70	1000 lb.	-4.0	45	5.7	---
71	1000 lb.	-21.9	45	5.7	---
72	1000 lb.	35.6	45	5.7	---
73	1000 lb.	-4.9	45	5.7	---



Maine Scale Company
Maine Test Number 7360ME
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Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2005.
SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.

Environmental conditions at time of test:

Temperature: 19.4 °C to 19.5 °C

Relative Humidity: 42.0 % to 42.1 %

Pressure: 746.47 mmHg to 758.42 mmHg

Date Received: January 7, 2019 & January 11, 2019

Dates of Test: January 10, 2019 & January 18, 2019

Calibration Due: January 31, 2020

Calibration by: Bradford Bachelder



Bradford Bachelder, Metrologist

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Calibrations performed at 333 Cony Road, Augusta ME.





JANET T. MILLS
GOVERNOR

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

Celeste Poulin
DIRECTOR

REPORT OF CALIBRATION
MAINE TEST NUMBER 7361ME
(4) 25 lb. & (53) 50 lb. Cast Iron Weights
Date of Report: January 18, 2019

SUBMITTED BY:
Maine Scale Company
4 Washington Street North
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine, by modified substitution, 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 NIST Test Number 684/281510-11. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2019. 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 show a value in the "before adjustment" column. Weights received in good condition.

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 of 2.01 ($K=2.01$) representing 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/cm^3 at 20 degrees C. The combined measurement uncertainty and measurement result have been taken in to account when issuing statements of compliance.

Data reduction sheets are on file at the laboratory.

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PHONE: (207) 287-7587

NVLAP Lab Code 200414-0

FAX: (207) 287-7161

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Maine Scale Company
Maine Test Number 7361ME
 Page 2 of 4

Serial Number	Nominal	Correction (grams)	NIST Class F Tolerance (grams)	Uncertainty (grams)	Before adjustment (grams)
1	25 lb.	-0.06	1.1	0.13	-3.80
2	25 lb.	0.46	1.1	0.13	---
3	25 lb.	-0.67	1.1	0.13	---
102	25 lb.	0.27	1.1	0.13	1.75
1	50 lb.	1.68	2.3	0.28	---
2	50 lb.	1.98	2.3	0.28	---
3	50 lb.	0.96	2.3	0.28	---
4	50 lb.	-1.54	2.3	0.28	---
5	50 lb.	0.11	2.3	0.28	---
6	50 lb.	0.37	2.3	0.28	---
7	50 lb.	1.68	2.3	0.28	---
8	50 lb.	0.42	2.3	0.28	---
9	50 lb.	1.25	2.3	0.28	---
10	50 lb.	1.35	2.3	0.28	---
12	50 lb.	0.17	2.3	0.28	3.45
13	50 lb.	1.16	2.3	0.28	---
14	50 lb.	-0.32	2.3	0.28	---
15	50 lb.	0.66	2.3	0.28	2.23
16	50 lb.	1.61	2.3	0.28	---
17	50 lb.	0.55	2.3	0.28	2.34
18	50 lb.	1.51	2.3	0.28	---
19	50 lb.	0.37	2.3	0.28	---
20	50 lb.	0.25	2.3	0.28	---
21	50 lb.	1.82	2.3	0.28	---
22	50 lb.	0.28	2.3	0.28	---
23	50 lb.	-0.99	2.3	0.28	---
24	50 lb.	0.41	2.3	0.28	-2.65
25	50 lb.	1.39	2.3	0.28	---
26	50 lb.	0.61	2.3	0.28	---
27	50 lb.	1.32	2.3	0.28	---
28	50 lb.	0.75	2.3	0.28	---
29	50 lb.	1.66	2.3	0.28	---
30	50 lb.	-0.19	2.3	0.28	---
31	50 lb.	0.36	2.3	0.28	3.13
32	50 lb.	0.63	2.3	0.28	2.13
33	50 lb.	-0.38	2.3	0.28	2.45
34	50 lb.	0.64	2.3	0.28	2.89



Maine Scale Company
Maine Test Number 7361ME
 Page 3 of 4

Serial Number	Nominal	Correction (grams)	NIST Class F Tolerance (grams)	Uncertainty (grams)	Before adjustment (grams)
35	50 lb.	-1.53	2.3	0.28	---
36	50 lb.	0.47	2.3	0.28	4.94
37	50 lb.	-1.05	2.3	0.28	---
38	50 lb.	0.76	2.3	0.28	2.31
39	50 lb.	-0.37	2.3	0.28	---
50	50 lb.	0.96	2.3	0.28	---
50	50 lb.	0.63	2.3	0.28	-2.98
51	50 lb.	-1.99	2.3	0.28	---
52	50 lb.	CONDEMNED	2.3	0.28	---
53	50 lb.	0.64	2.3	0.28	-3.25
54	50 lb.	0.49	2.3	0.28	-4.25
55	50 lb.	-1.83	2.3	0.28	---
56	50 lb.	0.44	2.3	0.28	-5.71
57	50 lb.	0.47	2.3	0.28	-4.58
58	50 lb.	0.33	2.3	0.28	---
59	50 lb.	-1.93	2.3	0.28	---
60	50 lb.	0.73	2.3	0.28	---
70	50 lb.	-1.61	2.3	0.28	---
71	50 lb.	0.71	2.3	0.28	-2.25
161	50 lb.	0.34	2.3	0.28	-5.83

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2005.
 SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.

Environmental conditions at time of test:

Temperature: 19.5 °C to 19.7 °C

Relative Humidity: 41.5 % to 41.9 %

Pressure: 751.86 mmHg to 754.38 mmHg

Date Received: January 7, 2019 & January 11, 2019

Dates of Test: January 8, 2019 & January 16, 2019

Calibration Due: January 31, 2020

Calibration by: Bradford Bachelder



Bradford Bachelder, Metrologist



Maine Scale Company
Maine Test Number 7361ME
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Calibrations performed at 333 Cony Road, Augusta ME.





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

Celeste Poulin
DIRECTOR

REPORT OF CALIBRATION
MAINE TEST NUMBER 7362ME

Weight Kit: 10 lb to 0.5 lb

S/N: 28619

Date of Report: January 8, 2019

SUBMITTED BY:

Maine Scale Company
4 Washington Street North
Auburn, ME 04210

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 NIST Test Number 684/281510-11 and NH Test Number 2015-012. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2019. 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 show a value in the "before adjustment" column. Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025. Weights received in good condition. **SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.**

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
10 lb	176	450	55	---
10 lb *	140	450	55	---
5 lb	42	230	28	---
2 lb	31	91	12	---
2 lb *	27	91	12	---
1 lb	31.9	70	8.7	---
0.5 lb	16.0	45	5.9	---

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Maine Scale Company
MAINE TEST NUMBER 7362ME
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Environmental conditions at time of test:

Temperature: 19.7 °C

Relative Humidity: 41.6 %.

Barometric Pressure: 757.25 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 of 2 ($K=2$) representing 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/cm^3 at 20 degrees C. The combined measurement uncertainty and measurement result have been taken in to account when issuing statements of compliance.

Date Received: January 7, 2019

Date of Test: January 7, 2019

Calibration Due: January 31, 2021

Calibration by: Bradford Bachelder



Bradford Bachelder, Metrologist

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

Celeste Poulin
DIRECTOR

REPORT OF CALIBRATION
MAINE TEST NUMBER 7363ME

Weight Kit: 5 lb to 0.5 lb
S/N: 74741

Date of Report: January 8, 2019

SUBMITTED BY:
Maine Scale Company
4 Washington Street North
Auburn, ME 04210

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 NIST Test Number 684/281510-11 and NH Test Number 2015-012. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2019. 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 show a value in the "before adjustment" column. Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025. Weights received in good condition. **SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.**

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
5 lb	38	230	28	---
5 lb *	35	230	28	---
5 lb **	55	230	28	---
5 lb ***	40	230	28	---
5 lb ****	59	230	28	---
1 lb	15.9	70	8.7	---
1 lb *	51.9	70	8.7	---

Page 1 of 2



Maine Scale Company
MAINE TEST NUMBER 7363ME
Page 2 of 2

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
1 lb **	30.9	70	8.7	---
1 lb ***	10.9	70	8.7	---
1 lb ****	5.9	70	8.7	---
0.5 lb	11.0	4.5	0.55	---

Environmental conditions at time of test:

Temperature: 19.7 °C

Relative Humidity: 41.6 %.

Barometric Pressure: 751.16 mmHg

Data reduction sheets are on file at the laboratory.

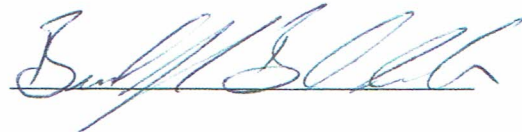
The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors determined by 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 of 2 (K=2) representing 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 degrees C. The combined measurement uncertainty and measurement result have been taken in to account when issuing statements of compliance.

Date Received: January 7, 2019

Date of Test: January 7, 2019

Calibration Due: January 31, 2021

Calibration by: Bradford Bachelder



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.





JANET T. MILLS
GOVERNOR

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

Celeste Poulin
DIRECTOR

REPORT OF CALIBRATION
MAINE TEST NUMBER 7365ME

Weight kit: 5 lb to 0.001 lb

SN: 54

Date of Report: January 18, 2019

SUBMITTED BY:

Maine Scale Company
4 Washington Street North
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine, by modified substitution, 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 NIST Test Number 684/281510-11. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2019. 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 show a value in the "before adjustment" column. Weights received in fair condition and require to be cleaned before next calibration.

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 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 of 2 ($k=2.0$) representing 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/cm^3 at 20 degrees C. The combined measurement uncertainty and measurement result have been taken in to account when issuing statements of compliance.

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

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Maine Scale Company
MAINE TEST NUMBER 7365ME
 Page 2 of 3

Nominal & Marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
5 lb	-8	230	28	---
5 lb *	-1	230	28	---
5 lb **	-2	230	28	---
5 lb ***	3	230	28	---
5 lb ****	8	230	28	---
1 lb *	34.9	70	8.7	---
1 lb **	28.9	70	8.7	---
1 lb ****	35.9	70	8.7	---
1 lb	29.9	70	8.7	---
1 lb *	35.9	70	8.7	---
0.5 lb	23.0	45	5.9	
0.2 lb	5.4	18	3.3	---
0.2 lb *	3.9	18	3.3	---
0.1 lb	2.7	9.1	1.1	---
0.05 lb	-0.02	4.5	0.55	---
0.02 lb	0.68	1.8	0.23	---
0.02 lb *	0.14	1.8	0.23	---
0.01 lb	0.63	1.5	0.18	---
0.005 lb	0.86	1.2	0.15	---
0.002 lb	0.49	0.87	0.11	---
0.002 lb *	0.43	0.87	0.11	---
0.001 lb	0.399	0.70	0.090	---

SI conversion: one pound equals 0.45359237 kilograms
 Data reduction sheets are on file at the laboratory.

Environmental conditions at time of test:

Temperature: 19.5 °C

Relative Humidity: 42.0 %

Barometric Pressure: 765.23 mmHg

Date Received: January 11, 2019

Date of Test: January 17, 2019


Calibration Due: January 31, 2021

Observations by: Bradford Bachelder



Maine Scale Company
MAINE TEST NUMBER 7365ME

Page 2 of 3



Bradford Bachelder, Metrologist

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JANET T. MILLS
GOVERNOR

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

Celeste Poulin
DIRECTOR

REPORT OF CALIBRATION
MAINE TEST NUMBER 7366ME

Metric Weight Kit: 5 kg to 1 g
SN: 28620

Date of Report: January 18, 2019

SUBMITTED BY:

Maine Scale Company
4 Washington Street North
Auburn, ME 04210

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. Weights received in good condition.

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 2019. 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 value in a "before adjustment" column if required.

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 of 2.02 ($K=2.02$) representing 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/cm^3 at 20 degrees C. The combined measurement uncertainty and measurement result have been taken in to account when issuing statements of compliance.

Page 1 of 3



Maine Scale Company
MAINE TEST NUMBER 7366ME

Page 2 of 3

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

Environmental conditions at time of test:

Temperature: 19.5 °C

Relative Humidity: 41.5 %

Barometric Pressure: 759.20 mmHg.

Data reduction sheets are on file at the laboratory.

Nominal & Marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
5 kg	162	500	59	---
5 kg *	149	500	59	---
2 kg	61	200	24	---
2 kg *	66	200	24	---
1 kg	32	100	12	---
500 g *	18.0	70	8.5	---
500 g **	20.0	70	8.5	---
500 g ***	18.0	70	8.5	---
500 g ****	26.0	70	8.5	---
500 g *****	24.0	70	8.5	---
200 g	17.5	40	5.2	---
200 g *	15.5	40	5.2	---
100 g	4.5	20	2.4	---
50 g	4.0	10	1.2	---
20 g	0.88	4	0.49	---
20 g *	0.61	4	0.49	---
10 g	0.63	2	0.24	---
5 g	0.44	1.5	0.18	---
2 g	0.13	1.1	0.13	---
2 g *	0.34	1.1	0.13	---
1 g	0.43	0.90	0.11	---

Date Received: January 11, 2019

Date of Test: January 18, 2019

Calibration Due: January 31, 2021

Calibration by: Bradford Bachelder



Bradford Bachelder, Metrologist



Maine Scale Company
MAINE TEST NUMBER 7366ME
Page 3 of 3

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Calibrations performed at 333 Cony Road, Augusta ME.





JANET T. MILLS
GOVERNOR

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

Celeste Poulin
DIRECTOR

REPORT OF CALIBRATION
MAINE TEST NUMBER 7367ME

Metric Weight Kit: 5 kg to 1 g
74742

Date of Report: January 18, 2019

SUBMITTED BY:
Maine Scale Company
4 Washington Street North
Auburn, ME 04210

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. Weights received in good condition.

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 2019. 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 value in a "before adjustment" column if required.

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 of 2.02 ($K=2.02$) representing 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/cm^3 at 20 degrees C. The combined measurement uncertainty and measurement result have been taken in to account when issuing statements of compliance.

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

Environmental conditions at time of test:

Temperature: 19.5 °C

Relative Humidity: 42.2 %

Barometric Pressure: 759.74 mmHg.

Data reduction sheets are on file at the laboratory.

Nominal & Marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
5 kg	126	500	59	---
2 kg	70	200	24	---
2 kg *	51	200	24	---
1 kg	30	100	12	---
500 g	6.0	70	8.5	---
200 g	2.5	40	5.2	---
200 g *	12.5	40	5.2	---
100 g	9.8	20	2.4	---
50 g	4.4	10	1.2	---
20 g	0.50	4	0.49	---
20 g *	0.75	4	0.49	---
10 g	0.61	2	0.24	---
5 g	0.29	1.5	0.18	---
2 g	0.67	1.1	0.13	---
2 g *	0.44	1.1	0.13	---
1 g	0.08	0.90	0.11	---

Date Received: January 11, 2019

Date of Test: January 18, 2019

Calibration Due: January 31, 2021

Calibration by: Bradford Bachelder



Bradford Bachelder, Metrologist

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 Calibrations performed at 333 Cony Road, Augusta ME.

