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Vermont Weights and Measures Metrology Laboratory

Test Report

Issued To:

Advanced Scale
13 Delta Drive Unit 6
Londondery, NH 03106
603-626-0242

Vermont Test Number: VT16-63

Date of Test: March 29, 2016

Report of Test for Item (Make/Model/Serial Number/#Pieces):

NA/5 lbs.-0.01 lb. SS Weight Kit/VT05-485/13 Pieces

The mass standards described above have been compared to the standards of the State of Vermont, by SOP 8 (modified substitution), and have been found at time of test, or adjusted, to meet the requirements stated in NIST Handbook 105-1 Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures (Class F). Standards of the state of Vermont are traceable to the SI and National Institute of Standards and Technology (NIST). The Vermont Laboratory is recognized by NIST, under the Laboratory Metrology Program at Mass Echelon III. The mass standards described above were found to have a mass value 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.

The uncertainties shown are 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 k (in chart) for an approximate 95% confidence interval.

Environmental conditions at time of test:

Temperature: 19.8° C

Relative Humidity: 45.9 % RH

Mass Comparator: MT XP5003S, MT XP205



Weight	Nominal	Correction mg	Uncertainty mg	NIST Class F Tolerance mg	Before Adjustment mg	k Factor
5 lb	5 lbs.	51	6	230		2.06
2 lb	2 lbs.	23.6	3.8	91		2.06
2 lb*	2 lbs.	20.6	3.8	91		2.06
1 lb	1 lb.	16.4	3.5	70		2.07
.5 lb	0.5 lb.	9.2	2.9	45		2.07
1 oz	1 oz.	1.08	0.25	5.4		2.07
.2 lb	0.2 lb.	6.81	0.53	18		2.07
.2 lb*	0.2 lb.	6.73	0.53	18		2.07
.1 lb	0.1 lb.	3.05	0.38	9.1		2.07
.05 lb	0.05 lb.	0.10	0.23	4.5		2.07
.02 lb	0.02 lb.	0.398	0.074	1.8		2.07
.02 lb*	0.02 lb.	0.398	0.074	1.8		2.07
.01 lb	0.01 lb.	0.596	0.071	1.5		2.07

Additional documentation material available on request.

The following weights were adjusted: None

Marc Paquette March 29 2016

Marc Paquette/Vermont Agency of Agriculture
Consumer Protection Section/Metrologist
Weights and Measures Specialist