



Submitted By: MESA INVENTORY
12100 W. 6TH AVENUE
LAKEWOOD, CO 80228-1252

Sales / P.O Number: N/A

UUT Serial Number: **M4H13238**
Description: RH MPRF ST THERM 1/2 AA
Mfgr. Part Number: 235001-540
Measurement Range: 0 to 100 % RH (non-condensing) / ±2% RH (±5% Ethylene Oxide)
Tolerances: DataTrace Standard
As Left Condition: **In Tolerance**
Physical Condition: **Good**
Cal. Procedure Used: DT-0079 RH Calibration
Cal. Due Date: **Per Customer SOP**

Customer UUT ID: **N/A**

Reference Instrument: Thunder Scientific TS-2500
Reference Instrument ID: 10228
Reference Calibration Date: 15Jan2014
Reference Calibration Due Date: 15Jan2015

AS LEFT DATA

M4H13238 %RH	REFERENCE %RH	DIFFERENCE %RH	TOLERANCE ± %RH	AS LEFT RESULT	U ± %RH	M4H13238 TEST ° C
0.09	0.00	0.09	2.00	Pass	0.73	23.0
20.18	20.00	0.18	2.00	Pass	0.73	24.9
25.12	25.00	0.12	2.00	Pass	0.73	25.0
30.20	30.01	0.19	2.00	Pass	0.73	25.0
40.08	39.99	0.09	2.00	Pass	0.73	25.0
50.16	50.03	0.13	2.00	Pass	0.73	25.0
60.10	59.98	0.12	2.00	Pass	0.73	25.0
70.12	70.00	0.12	2.00	Pass	0.73	25.0
80.21	80.00	0.21	2.00	Pass	0.73	25.0
90.19	89.97	0.22	2.00	Pass	0.73	25.0
95.20	95.05	0.15	2.00	Pass	0.73	25.0
24.31	24.00	0.31	2.00	Pass	0.73	54.5
30.40	30.00	0.40	2.00	Pass	0.73	54.5
40.58	39.99	0.59	2.00	Pass	0.73	54.5
60.75	59.99	0.76	2.00	Pass	0.73	54.5
80.60	80.01	0.59	2.00	Pass	0.73	54.5
90.64	89.99	0.65	2.00	Pass	0.73	54.6
95.50	94.99	0.51	2.00	Pass	0.73	54.7

Avg. ambient conditions during test: 24 °C, 31 % RH

Performed by: Phillip Perri

Measurements are made by exposing the unit under test (UUT) to a known relative humidity in a humidity generator which utilizes the N.I.S.T. two-pressure method. Zero RH point is generated by exposing the instrument to air passed through a calcium sulfate desiccant. The reported uncertainty (U) is expanded at a coverage factor of 2 (k=2). When used in Ethylene Oxide an accuracy of ±5% is expected and a 90 day calibration cycle is recommended.

Battery replacement is part of standard service and calibration procedures. Additional services (if any) are listed on a separate service report.

Mesa Laboratories, Inc. certifies that the above instrument meets or exceeds published specifications, and that the calibration results in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Calibration results are in compliance with ISO/IEC 17025:2005 and ANSI/NCSL Z540.3-2006. Data acquisition software has been validated and complies with USFDA 21CFR11 requirements for electronic records. This calibration report applies only to the item described. This document may not be reproduced except in full. © 2013 Mesa Laboratories, Inc. All rights reserved.

Reviewed by: _____
Phillip Perri

QC Inspector: _____

Date: 09Oct2014

Date: _____