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<b>Customer:</b>	Mesa Laboratories	<b>Certificate Number:</b>	137909 Rev 1
	Marlton, NJ	<b>Calibration Date:</b>	19 MAY 2020
<b>Description:</b>	PRT	<b>Calibration Due:</b>	19 MAY 2021
<b>Model:</b>	5628	<b>Ambient Temperature:</b>	20 to 27°C
<b>Serial Number:</b>	4655	<b>Ambient Humidity:</b>	30 to 50%RH
<b>Unit ID:</b>	TE11797	<b>Barcode:</b>	C023119

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Calibration of this instrument is accredited to ISO/IEC 17025:2005 and is traceable to the International System of Units through NIST or other National Measurement Institutes. The reported expanded uncertainty used a coverage factor of  $k=2$  for a level of confidence equal to approximately 95%. The statement of compliance is only representative of the standard and unit under test, and does not include the associated uncertainty. The results stated relate only to the item calibrated.

If this Certificate of Calibration is reproduced, it must be duplicated in full, unless permission for the publication of an approved abstract is obtained in writing from Masy BioServices. This Certificate of Calibration shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.

This Certificate of Calibration is not valid unless appropriately signed.

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**Action Taken:**

Calibrated.

**As Left Condition:**

In tolerance.

**Comments:**

This certificate supersedes #137909, amended to correct unit ID.

This calibration is based on the information contained in NIST Technical Note 1265, "Guidelines for Realizing the International Temperature Scale of 1990 (ITS-90)" section 4.6. The comparison standards used were calibrated in accordance with ITS-90 and are traceable to SI.

**Performed by:****Approved by:**

# Calibration Measurement Results

Calibration Procedure: Thermometer PRT Loop Calibration

Certificate Number: 137909 Rev 1

## As Left Measurement Results

Nominal	Standard	UUT	Deviation	Tolerance	Status	Expanded Uncertainty
420°C	419.2088°C	419.206°C	-0.0028°C	±0.0250°C	Pass	6.6E-03°C
232°C	231.9384°C	231.936°C	-0.0024°C	±0.0250°C	Pass	4.6E-03°C
157°C	156.6018°C	156.599°C	-0.0028°C	±0.0250°C	Pass	4.0E-03°C
0°C	0.0099°C	0.010°C	0.0001°C	±0.0250°C	Pass	1.8E-03°C
-39°C	-38.7037°C	-38.704°C	-0.0003°C	±0.0250°C	Pass	2.8E-03°C
-196°C	-195.6090°C	-195.613°C	-0.0040°C	±0.0250°C	Pass	4.6E-03°C

During the calibration process the resistance at the Triple-Point of Water (273.16K) changed by the equivalent of 0.0mK.

## Configuration Details

Thermometer Information		Coefficient	As Left
Model	1502A	R0	25.4819
Serial Number	A1C627	A7	-1.146396E-04
ID	TE10244	B7	-4.800077E-05
Channel	1	C7	6.149334E-06
		A4	-9.566130E-05
		B4	1.244918E-05

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## Measurement Standards Used

MSI	Description	Serial Number	Cal Due Date
7441	Super Thermometer	A09098	31 AUG 2020
3581	Resistor, Standard	1100705	31 MAY 2021
8772	SPRT	0543	30 NOV 2020
4816	SPRT	0548	31 JUL 2020
10067	Water Triple-Point Cell	C-Q1011	NCR
8327	RadioLogger	0215-00845	31 DEC 2020

~ End of Report ~