**CALIBRATION LABORATORIES** **NVLAP LAB CODE 200566-0**

# SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

| Global Calibration Laboratory at Fluke Biomedical | Fields of Calibration |
|---|---|
| 2 Science Road<br>Glenwood, Illinois 60425<br>Tanuka Banerjee<br>Phone: 312-502-1866<br>E-mail: tanuka.banerjee@flukebiomedical.com<br>URL: www.globalcal.com | Electromagnetics – DC/Low Frequency<br>Time and Frequency<br>Thermodynamic<br><br>This laboratory is compliant to ANSI/NCSL Z540-1-1994; Part 1. (20/A01) |

## CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) Notes 1,2

Note: The parameters listed in this scope of accreditation are for the calibration of electrical analyzers used in the biomedical field and do not apply to other devices.

| Measured Parameter or Device Calibrated | Range | Frequency Range | Expanded Uncertainty Note 3,5 | Remarks |
|---|---|---|---|---|
| **ELECTROMAGNETICS – DC/LOW FREQUENCY** | | | | |
| **AC RESISTORS (20/E02)** | | | | |
| AC Current – Measuring Equipment | > 0 µA to 220 µA | 20 Hz to 40 Hz<br>40 Hz to 1 kHz<br>1 kHz to 5 kHz | 0.017 % + 9.8 nA<br>0.011 % + 7.8 nA<br>0.027 % + 12 nA | Fluke 5720A |
| | 0.22 mA to 2.2 mA | 20 Hz to 40 Hz<br>40 Hz to 1 kHz<br>1 kHz to 5 kHz | 0.016 % + 36 nA<br>0.011 % + 32 nA<br>0.019 % + 0.10 µA | |
| | 2.2 mA to 22 mA | 20 Hz to 40 Hz<br>40 Hz to 1 kHz<br>1 kHz to 5 kHz | 0.016 % + 0.39 µA<br>0.011 % + 0.32 µA<br>0.019 % + 0.54 µA | |
| | 22 mA to 220 mA | 20 Hz to 40 Hz<br>40 Hz to 1 kHz<br>1 kHz to 5 kHz | 0.016 % + 4.3 µA<br>0.011 % + 2.5 µA<br>0.019 % + 3.1 µA | |
| | 0.22 A to 2.2 A | 20 Hz to 1 kHz<br>1 kHz to 5 kHz | 0.025 % + 71 µA<br>0.039 % + 81 µA | |

2024-09-12 through 2025-09-30
*Effective dates*

*For the National Voluntary Laboratory Accreditation Program*

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## CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) [Notes 1,2]

Note: The parameters listed in this scope of accreditation are for the calibration of electrical analyzers used in the biomedical field and do not apply to other devices.

| Measured Parameter or Device Calibrated | Range | Frequency Range | Expanded Uncertainty [Note 3,5] | Remarks |
|---|---|---|---|---|
| | 2.2 A to 11 A | 40 Hz to 1 kHz<br>1 kHz to 5 kHz | 0.036 % + 0.17 mA<br>0.074 % + 0.31 mA | Fluke 5720A / 5725A |
| | 0.1 A to 15 A | 40 Hz to 1 kHz | 0.35 % + 70 mA | Current Source Characterized with Fluke 8846A and Shunt |
| | 330 µA to 3.3 mA | 45 Hz to 1 kHz<br>1 kHz to 5 kHz<br>5 kHz to 10 kHz<br>10 kHz to 30 kHz | 0.12 % + 0.60 µA<br>0.23 % + 0.62 µA<br>0.58 % + 0.67 µA<br>1.2 % + 0.90 µA | Fluke 5520A |
| AC Current – Measure | Up to 100 µA | 20 Hz to 5 kHz<br>5 kHz to 10 kHz | 0.017 % + 69 nA<br>0.40 % + 0.81 µA | Fluke 8846A |
| | > 100 µA to 1 mA | 20 Hz to 5 kHz<br>5 kHz to 10 kHz | 0.12 % + 0.46 µA<br>0.23 % + 2.9 µA | |
| | > 1 mA to 10 mA | 20 Hz to 5 kHz<br>5 kHz to 10 kHz | 0.17 % + 6.9 µA<br>0.40 % + 81 µA | |
| | > 10 mA to 100 mA | 20 Hz to 5 kHz<br>5 kHz to 10 kHz | 0.12 % + 46 µA<br>0.23 % + 0.29 mA | |
| | > 100 mA to 400 mA | 20 Hz to 1 kHz<br>1 kHz to 10 kHz | 0.12 % + 0.47 mA<br>0.23 % + 3.2 mA | |
| | > 400 mA to 1 A | 20 Hz to 5 kHz<br>5 kHz to 10 kHz | 0.12 % + 0.47 mA<br>0.40 % + 8.1 mA | |
| | > 1 A to 3 A | 20 Hz to 5 kHz<br>5 kHz to 10 kHz | 0.17 % + 2.1 mA<br>0.40 % + 24 mA | |

2024-09-12 through 2025-09-30
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**CALIBRATION LABORATORIES** **NVLAP LAB CODE 200566-0**

**CALIBRATION AND MEASUREMENT CAPABILITIES (CMC)** [Notes 1,2]

Note: The parameters listed in this scope of accreditation are for the calibration of electrical analyzers used in the biomedical field and do not apply to other devices.

| Measured Parameter or Device Calibrated | Range | Frequency Range | Expanded Uncertainty [Note 3,5] | Remarks |
|---|---|---|---|---|
| | > 3 A to 10 A | 20 Hz to 5 kHz<br>5 kHz to 10 kHz | 0.17 % + 6.9 mA<br>0.40 % + 81 mA | |
| | > 10 A to 25 A | 50 Hz to 60 Hz | 0.27 A | Fluke 8846A, w/Shunt |
| AC Resistance – Measure (1 A to 20 A Source) | 0.05 Ω<br>0.10 Ω<br>0.15 Ω | 50 Hz to 60 Hz | 89 µΩ<br>0.28 mΩ<br>0.48 mΩ | Fluke 5520A, Fluke 8846A |

**CALIBRATION AND MEASUREMENT CAPABILITIES (CMC)** [Notes 1,2]

Note: The parameters listed in this scope of accreditation are for the calibration of electrical analyzers used in the biomedical field and do not apply to other devices.

| Measured Parameter or Device Calibrated | Range | Expanded Uncertainty [Note 3,5] | Remarks |
|---|---|---|---|
| **DC RESISTANCE and CURRENT (20/E05)** | | | |
| DC Resistance – Measuring Equipment | 0 Ω<br>1 Ω<br>10 Ω<br>100 Ω<br>1 kΩ<br>10 kΩ<br>100 kΩ<br>1 MΩ<br>10 MΩ<br>100 MΩ | 86 µΩ<br>0.16 mΩ<br>0.29 mΩ<br>1.3 mΩ<br>8.5 mΩ<br>88 mΩ<br>1.1 Ω<br>19 Ω<br>0.38 kΩ<br>12 kΩ | Fluke 5720A |
| | 0 Ω to 110 Ω<br>> 0.11 kΩ to 1.111 kΩ | 0.012 % +2.3 mΩ<br>0.012 % +2.4 mΩ | IET Labs 1433-02 |
| | 0 Ω to 1 MΩ | 1.2 % + 58 mΩ | IET Labs HPRS |

2024-09-12 through 2025-09-30
*Effective dates*

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**CALIBRATION LABORATORIES** **NVLAP LAB CODE 200566-0**

## CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) Notes 1,2

Note: The parameters listed in this scope of accreditation are for the calibration of electrical analyzers used in the biomedical field and do not apply to other devices.

| Measured Parameter or Device Calibrated | Range | Expanded Uncertainty Note 3,5 | Remarks |
|---|---|---|---|
| | 1 kΩ to 100 kΩ<br>> 100 kΩ to 10 MΩ<br>> 10 MΩ to 100 MΩ<br>> 100 MΩ to 1GΩ | 0.035 % + 23 mΩ<br>0.035 %<br>0.12 %<br>0.23 % | IET Labs HRRS |
| | 0.05 Ω<br>0.10 Ω<br>0.15 Ω | 0.14 mΩ<br>0.30 mΩ<br>0.50 mΩ | Shunt Resistor |
| DC Resistance – Measure | 45 mΩ to 165 mΩ | 0.008 % + 0.24 mΩ | Fluke 5520 and Agilent 3458A |
| | 0.05 Ω<br>0.10 Ω<br>0.15 Ω | 87 µΩ<br>0.27 mΩ<br>0.47 mΩ | Fluke 5520A with Fluke 8846A |
| | 0 Ω to 100 Ω<br>> 0.1 kΩ to 1 kΩ<br>> 1 kΩ to 10 kΩ<br>> 10 kΩ to 100 kΩ<br>> 0.1 MΩ to 1 MΩ<br>> 1 MΩ to 10 MΩ<br>> 10 MΩ to 100 MΩ | 0.012 % + 2.3 mΩ<br>0.012 % + 7.0 mΩ<br>0.012 % + 70 mΩ<br>0.012 % + 1.2 Ω<br>0.012 % + 12 Ω<br>0.046 % + 0.12 kΩ<br>0.23 % +3.5 kΩ | Keithley 2700 |
| | 0 Ω to 10 Ω<br>> 10 Ω to 100 Ω<br>> 0.1 kΩ to 1 kΩ<br>> 1 kΩ to 10 kΩ<br>> 10 kΩ to 100 kΩ<br>> 0.1 MΩ to 1 MΩ<br>> 1 MΩ to 10 MΩ<br>> 10 MΩ to 100 MΩ | 0.012 % + 3.5 mΩ<br>0.012 % + 4.6 mΩ<br>0.012 % + 12 mΩ<br>0.012 % + 0.12 Ω<br>0.012 % + 1.2 Ω<br>0.012 % + 12 Ω<br>0.046 % + 0.12 kΩ<br>0.92 % + 1.2 kΩ | Fluke 8846A |

2024-09-12 through 2025-09-30
*Effective dates*

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Note: The parameters listed in this scope of accreditation are for the calibration of electrical analyzers used in the biomedical field and do not apply to other devices.

| Measured Parameter or Device Calibrated | Range | Expanded Uncertainty Note 3,5 | Remarks |
|---|---|---|---|
| DC Current – Measure | 0 µA to 100 µA<br>> 100 µA to 1 mA<br>> 1 mA to 10 mA<br>> 10 mA to 100 mA<br>> 100 mA to 400 mA<br>> 400 mA to 1 A<br>> 1 A to 3 A<br>> 3A to 10 A | 0.058 % + 29 nA<br>0.058 % + 58 nA<br>0.058 % + 2.3 µA<br>0.058 % + 5.8 µA<br>0.058 % + 40 µA<br>0.058 % + 0.23 mA<br>0.12 % + 0.69 mA<br>0.17 % + 0.93 mA | Fluke 8846A |
| DC Current – Generate | 0 µA to 220 µA<br>> 220 µA to 2.2 mA<br>> 2.2 mA to 22 mA<br>> 22 mA to 100 mA<br>> 100 mA to 220 mA<br>> 220 mA to 1 A<br>> 1 A to 2.2 A<br>> 2.2 A to 11 A | 39 µA/A + 6.6 nA<br>31 µA/A + 7.6 nA<br>31 µA/A + 0.37 µA<br>39 µA/A + 0.84 µA<br>46 µA/A + 0.84 µA<br>62 µA/A + 34 µA<br>0.01 % + 34 µA<br>0.028 % + 0.38 mA | Fluke 5720A<br><br><br><br><br><br><br>Fluke 5702A/5725A |
| **DC VOLTAGE (20/E06)** | | | |
| DC Voltage – Measuring Equipment | 0 V to 0.22 V<br>> 0.22 V to 2.2 V<br>> 2.2 V to 11 V<br>> 11 V to 22 V<br>> 22 V to 220 V<br>>220 V to 1100 V | 7.0 µV/V + 0.70 µV<br>4.7 µV/V + 1.0 µV<br>3.1 µV/V + 6.7 µV<br>3.1 µV/V + 58 µV<br>4.7 µV/V + 0.12 mV<br>6.2 µV/V + 0.82 mV | Fluke 5720A |
| DC Voltage – Measure | 0 V to 0.1 V<br>> 0.1 V to 1 V<br>> 1 V to 10 V<br>> 10 V to 100 V<br>> 100 V to 1000 V | 0.0043 % + 4.1 µV<br>0.0029 % + 8.1 µV<br>0.0028 % + 58 µV<br>0.0044 % + 0.7 mV<br>0.0047 % + 7.0 mV | Fluke 8846A |

2024-09-12 through 2025-09-30
*Effective dates*

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### CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) Notes 1,2

Note: The parameters listed in this scope of accreditation are for the calibration of electrical analyzers used in the biomedical field and do not apply to other devices.

| Measured Parameter or Device Calibrated | Range | Expanded Uncertainty Note 3,5 | Remarks |
|---|---|---|---|
| | 0 V to 0.1 V<br>> 0.1 V to 1 V<br>> 1 V to 10 V<br>> 10 V to 100 V<br>> 100 V to 500 V<br>> 500 V to 1000 V | 0.0035 % + 4.1 µV<br>0.0035 % + 8.1 µV<br>0.0035 % + 58 µV<br>0.0052 % + 1.0 mV<br>0.0058 % + 10 mV<br>0.0069 % + 10 mV | Keithley 2700 |

### CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) Notes 1,2

Note: The parameters listed in this scope of accreditation are for the calibration of electrical analyzers used in the biomedical field and do not apply to other devices.

| Measured Parameter or Device Calibrated | Range | Frequency Range | Expanded Uncertainty Note 3,5 | Remarks |
|---|---|---|---|---|
| **LF AC VOLTAGE (20/E09)** | | | | |
| AC Voltage – Measuring Equipment | 22 mV to 220 mV | 40 Hz to 20 kHz | 78 µV/V + 6.3 µV | Fluke 5720A |
| | | > 20 kHz to 50 kHz | 0.019 % + 6.2 µV | |
| | | > 50 kHz to 100 kHz | 0.047 % + 16 µV | |
| | | > 100 kHz to 300 kHz | 0.085 % + 19 µV | |
| | 220 mV to 2.2 V | 40 Hz to 20 kHz | 40 µV/V + 11 µV | |
| | | > 20 kHz to 50 kHz | 70 µV/V + 12 µV | |
| | | > 50 kHz to 100 kHz | 0.010 % + 32 µV | |
| | | > 100 kHz to 300 kHz | 0.039 % + 88 µV | |
| | 2.2 V to 22 V | 40 Hz to 20 kHz | 40 µV/V + 0.12 mV | |
| | | > 20 kHz to 50 kHz | 70 µV/V + 0.21 mV | |
| | | > 50 kHz to 100 kHz | 93 µV/V + 0.37 mV | |
| | | > 100 kHz to 300 kHz | 0.025 % + 0.81 mV | |
| | 22 V to 220 V | 40 Hz to 20 kHz | 50 µV/V + 0.99 mV | |
| | | > 20 kHz to 50 kHz | 78 µV/V + 2.4 mV | |
| | | > 50 kHz to 100 kHz | 0.014 % + 4.0 mV | |
| | | > 100 kHz to 300 kHz | 0.085 % + 16 mV | |

2024-09-12 through 2025-09-30
*Effective dates*

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## CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) [Notes 1,2]

Note: The parameters listed in this scope of accreditation are for the calibration of electrical analyzers used in the biomedical field and do not apply to other devices.

| Measured Parameter or Device Calibrated | Range | Frequency Range | Expanded Uncertainty [Note 3,5] | Remarks |
|---|---|---|---|---|
| | 220 V to 1000 V | 40 Hz to 1 kHz<br>> 1 kHz to 20 kHz<br>> 20 kHz to 30 kHz | 70 µV/V + 6.1 mV<br>0.13 % + 9.0 mV<br>0.47 % + 12 mV | Fluke 5720A/5725A |
| | 220 V to 750 V | 30 kHz to 50 kHz<br>> 50 kHz to 100 kHz | 0.047 % + 8.6 mV<br>0.18 % + 35 mV | |
| AC Voltage – Measure | 5 mV to 100 mV | 40 Hz to 20 kHz<br>> 20 kHz to 50 kHz<br>> 50 kHz to 100 kHz<br>> 100 kHz to 300 kHz | 0.069 % + 46 µV<br>0.14 % + 58 µV<br>0.69 % + 92 µV<br>4.6 % + 0.58 mV | Fluke 8846A |
| | 0.1 V to 1 V | 40 Hz to 20 kHz<br>> 20 kHz to 50 kHz<br>> 50 kHz to 100 kHz<br>> 100 kHz to 300 kHz | 0.069 % + 0.35 mV<br>0.14 % + 0.58 mV<br>0.69 % + 0.92 mV<br>4.6 % + 5.8 mV | |
| | 1 V to 10 V | 40 Hz to 20 kHz<br>> 20 kHz to 50 kHz<br>> 50 kHz to 100 kHz<br>> 100 kHz to 300 kHz | 0.069 % + 3.5 mV<br>0.14 % + 5.8 mV<br>0.69 % + 9.2 mV<br>4.6 % + 58 mV | |
| | 10 V to 100 V | 40 Hz to 20 kHz<br>> 20 kHz to 50 kHz<br>> 50 kHz to 100 kHz<br>> 100 kHz to 300 kHz | 0.069 % + 35 mV<br>0.14 % + 58 mV<br>0.69 % + 92 mV<br>4.6 % + 0.58 V | |
| | 100 V to 1000 V | 40 Hz to 20 kHz<br>> 20 kHz to 30 kHz | 0.069 % + 0.26 V<br>0.14 % + 0.43 V | |

2024-09-12 through 2025-09-30
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| Measured Parameter or Device Calibrated | Range | Expanded Uncertainty [Note 3,5] | Remarks |
|---|---|---|---|
| **LF POWER/ENERGY (20/E12)** | | | |
| LF Energy – Measure | 0.1 J to 400 J | 0.28 % + 0.044 J | Agilent 3458A, Reference Resistor, Reference Divider |
| LF Energy – Generate | 0.1 J to 400 J | 0.28 % + 0.14 J | Impulse 7000 “Gold Std” |
| AC Power – Source<br>300 kHz to 500 kHz | 1 W to 320 W | 2.5 % | RF Voltmeter, Current Coil, Fluke 8846A |
| **TIME & FREQUENCY** | | | |
| **FREQUENCY DISSEMINATION (20/F01)** | | | |
| Frequency | 1 Hz to 10 Hz<br>10 Hz to 100 kHz | 0.027 %<br>0.011 % | Keithley 2700 |
| **MECHANICAL** | | | |
| **FLOW RATE (20/M05)** | | | |
| Gas Flow | 0.1 SLM to 1 SLM<br>3 SLM to 11 SLM<br>11 SLM to 110 SLM<br>110 SLM to 220 SLM<br>220 SLM to 300 SLM | 0.23 % + 0.0017 SLM<br>0.22 % + 0.13 SLM<br>0.24 % + 0.27 SLM<br>0.23 % + 1.4 SLM<br>0.23 % + 2.4 SLM | Gas flow measured at ambient T & P, then data standardized to 21.0 °C and 1013 mbar.<br>Fluke Molblocs, Molbox1 |
| **THERMODYNAMIC** | | | |
| **HUMIDITY (20/T02)** | | | |
| Relative Humidity – Measuring Equipment<br>20 °C to 50 °C | 25 % RH to 65 % RH | 1.4 % RH | Fluke RH Sensor with PRT & DewK, Thermal Chamber |
| 19 °C to 26 °C | 0 % RH | 1.3 % RH | Vaisala RH Sensor, MI70, HMP77B |

2024-09-12 through 2025-09-30
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| Measured Parameter or Device Calibrated | Range | Expanded Uncertainty Note 3,5 | Remarks |
|---|---|---|---|
| **LABORATORY THERMOMETERS, DIGITAL and ANALOG (20/T03)** | | | |
| Resistance Thermometers | 0 °C to 50 °C | 0.05 °C | Fluke PRT with Chub E4 |
| **PRESSURE (20/T05)** | | | |
| Pneumatic Gauge Pressure – Measure | 0 psi to 10 psi | 0.0032 psi | Heise HQS-2 |
| Pneumatic Gauge Pressure – Source | -90 kPa to -60 kPa<br>-60 kPa to 60 kPa<br>60 kPa to 100 kPa<br>100 kPa to 1 MPa<br><br>-1 kPa to 1 kPa<br>± (1 to 4.5) kPa<br>± (4.5 to 15) kPa | 133 Pa<br>94 Pa<br>110 Pa<br>340 Pa<br><br>0.003 % + 1 Pa<br>0.003 % + 8 Pa<br>0.02 % + 10 Pa | Fluke 6270A Pressure Controller / Calibrator |
| Pneumatic Absolute Pressure – Source | 60 kPa to 200 kPa | 110 Pa | Fluke 6270A Pressure Controller / Calibrator |
| **TEMPERTURE INDICATORS (20/T08)** | | | |
| Electrical Calibration of Thermocouple Devices – Type K | 0 °C to 60 °C | 0.25 °C | Fluke 525A, Fluke 5500A |
| **END** | | | |

2024-09-12 through 2025-09-30
*Effective dates*

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| Notes |
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**Note 1:** A Calibration and Measurement Capability (CMC) is a description of the best result of a calibration or measurement (result with the smallest uncertainty of measurement) that is available to the laboratory's customers under normal conditions, when performing more or less routine calibrations of nearly ideal measurement standards or instruments. The CMC is described in the laboratory's scope of accreditation by: the measurement parameter/device being calibrated, the measurement range, the uncertainty associated with that range (see note 3), and remarks on additional parameters, if applicable.

**Note 2:** Calibration and Measurement Capabilities are traceable to the national measurement standards of the U.S. or to the national measurement standards of other countries and are thus traceable to the internationally accepted representation of the appropriate SI (Système International) unit.

**Note 3:** The uncertainty associated with a measurement in a CMC is an expanded uncertainty with a level of confidence of approximately 95 %, typically using a coverage factor of $k = 2$. However, laboratories may report a coverage factor different than $k = 2$ to achieve the 95 % level of confidence. Units for the measurand and its uncertainty are to match. Exceptions to this occur when marketplace practice employs mixed units, such as when the artifact to be measured is labeled in non-SI units and the uncertainty is given in SI units (Example: 5 lb weight with uncertainty given in mg).

**Note 3a:** The uncertainty of a specific calibration by the laboratory may be greater than the uncertainty in the CMC due to the condition and behavior of the customer's device and specific circumstances of the calibration. The uncertainties quoted do not include possible effects on the calibrated device of transportation, long term stability, or intended use.

**Note 3b:** As the CMC represents the best measurement results achievable under normal conditions, the accredited calibration laboratory shall not report smaller uncertainty of measurement than that given in a CMC for calibrations or measurements covered by that CMC.

**Note 3c:** As described in Note 1, CMCs cover calibrations and measurements that are available to the laboratory's customers under *normal conditions.* However, the laboratory may have the capability to offer special tests, employing special conditions, which yield calibration or measurement results with lower uncertainties. Such special tests are not covered by the CMCs and are outside the laboratory's scope of accreditation. In this case, NVLAP requirements for the labeling, on calibration reports, of results outside the laboratory's scope of accreditation apply. These requirements are set out in Annex A.5. of NIST Handbook 150, Procedures and General Requirements.

**Note 4:** Uncertainties associated with field service calibration may be greater as they incorporate on-site environmental contributions, transportation effects, or other factors that affect the measurements. (This note applies only if marked in the body of the scope.)

**Note 5:** Values listed with percent (%) are percent of reading or generated value unless otherwise noted.

**Note 6:** NVLAP accreditation is the formal recognition of specific calibration capabilities. Neither NVLAP nor NIST guarantee the accuracy of individual calibrations made by accredited laboratories.

2024-09-12 through 2025-09-30
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