



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

*Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization*

### ***Metrologia Aplicada y Servicios S. de R.L. de C.V.***

***Ramon Rayon 1520-9, Pino Seco/Lote Bravo  
Cd. Juárez, Chihuahua, México. C.P. 32550***

*and hereby declares that the Organization is accredited in accordance with  
the recognized International Standard:*

### **ISO/IEC 17025:2017**

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

***Dimensional, Thermodynamic, Optical, Mechanical, Fluid Quantities, Mass,  
Force and Weighing Devices, Chemical, Time and Frequency and Electrical  
Calibration  
(As detailed in the supplement)***

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Tracy Szerszen  
President

Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
755 W. Big Beaver, Suite 1325  
Troy, Michigan 48084

*Initial Accreditation Date:*

August 28, 2002

*Issue Date:*

April 24, 2025

*Expiration Date:*

April 30, 2027

*Revision Date:*

February 22, 2026

*Accreditation No.:*

22580

*Certificate No.:*

L25-361-1-R1

*The validity of this certificate is maintained through ongoing assessments based  
on a continuous accreditation cycle. The validity of this certificate should be  
confirmed through the PJLA website: [www.pjilabs.com](http://www.pjilabs.com)*



# Certificate of Accreditation: Supplement

## Metrologia Aplicada y Servicios S. de R.L. de C.V.

Ramon Rayon 1520-9, Pino Seco/Lote Bravo  
 Cd. Juárez, Chihuahua, México. C.P. 32550  
 Contact Name: Carlos Valenzuela. Phone: 656-617-6617

*Accreditation is granted to the facility to perform the following conformity assessment activities:*

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ( $\pm$ ) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Optical Comparators (Magnification)	Up to 100X	0.03 % of reading	Video and Comparator Reticle Kit/ Gage Blocks Set	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Optical Comparators (X-Axis Linearity)	Up to 12 in	(143 + 17.5L) $\mu$ m	Video and Comparator Reticle Kit/ Gage Blocks Set	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Optical Comparators (Y-Axis Linearity)	Up to 12 in	(143 + 17.5L) $\mu$ m	Video and Comparator Reticle Kit/ Gage Blocks Set	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Optical Comparators (X-Axis Linearity)	Up to 1 200 mm	(1.21 + 0.03L) $\mu$ m	Video and Comparator Reticle Kit/ Gage Blocks Set	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Optical Comparators (Y-Axis Linearity)	Up to 1 200 mm	(1.21 + 0.03L) $\mu$ m	Video and Comparator Reticle Kit/ Gage Blocks Set	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Optical Comparators (Axis Squareness)	90°	0.1°	Video and Comparator Reticle Kit/ Gage Blocks Set	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Optical Comparators (Angularity)	30°	0.1°	981-103 Angle Plate	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Optical Comparators (Angularity)	45°	0.1°	981-103 Angle Plate	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Optical Comparators (Angularity)	60°	0.1°	981-103 Angle Plate	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Optical Comparators (Angularity)	90°	0.1°	981-103 Angle Plate	JIS B 7184 SOP 7.2-22	F1, F2, F3	O



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Dimensional	Video Measurement System (Magnification)	Up to 100X	0.03 % of reading	Video and Comparator Reticle Kit/ Gage Blocks Set	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Video Measurement System (X-Axis Linearity)	Up to 12 in	30 $\mu$ m	Video and Comparator Reticle Kit/ Gage Blocks Set	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Video Measurement System (X-Axis Linearity)	Up to 1 200 mm	(1.21 + 0.03L) $\mu$ m	Video and Comparator Reticle Kit/ Gage Blocks Set	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Video Measurement System (Y-Axis Linearity)	Up to 12 in	30 $\mu$ m	Video and Comparator Reticle Kit/ Gage Blocks Set	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Video Measurement System (Y-Axis Linearity)	Up to 1 200 mm	(1.21 + 0.03L) $\mu$ m	Video and Comparator Reticle Kit/ Gage Blocks Set	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Video Measurement System (Axis Squareness)	90°	0.01°	Video and Comparator Reticle Kit/ Gage Blocks Set	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Video Measurement (System Angularity)	30°	0.01°	981-103 Angle Plate	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Video Measurement (System Angularity)	45°	0.01°	981-103 Angle Plate	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Video Measurement (System Angularity)	60°	0.01°	981-103 Angle Plate	JIS B 7184 SOP 7.2-22	F1, F2, F3	O
Dimensional	Video Measurement (System Angularity)	90°	0.01°	981-103 Angle Plate	JIS B 7184 SOP 7.2-22	F1, F2, F3	O



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Dimensional	Block Gages	0.01 in to 12 in	$(2.5 + 0.959L) \mu\text{in}$	Pratt & Whitney lab Master/Gage Blocks, Grade K	ASME B89.1.9 SOP 7.2-23	F1, F2, F3	F
Dimensional	Block Gages	0.5 mm to 300 mm	$(0.04 + 0.005L) \mu\text{m}$	Pratt & Whitney lab Master/Gage Blocks, Grade K	ASME B89.1.9 SOP 7.2-23	F1, F2, F3	F
Dimensional	Protractors	30°	0.01°	981-103 Angle Plate	CEM DI-003 SOP 7.2-29	F1, F2, F3	F
Dimensional	Protractors	45°	0.01°	981-103 Angle Plate	CEM DI-003 SOP 7.2-29	F1, F2, F3	F
Dimensional	Protractors	60°	0.01°	981-103 Angle Plate	CEM DI-003 SOP 7.2-29	F1, F2, F3	F
Dimensional	Protractors	90°	0.01°	981-103 Angle Plate	CEM DI-003 SOP 7.2-29	F1, F2, F3	F
Dimensional	CMM Performance Verification (Coordinate Measuring Machines) Linear Displacement (X, Y, and Z axis)	0.5 mm to 1 600 mm	$(0.822 + 7.59 \times 10^{-3}L) \mu\text{m}$	Gage Blocks and Bar Ball Check	ASME B89.4.10360.2 SOP 7.2-18	F1, F2, F3	O
Dimensional	CMM Performance Verification Volumetric Displacement	0.025 4 m to 1.2 m	$(2.9 + 0.09L) \mu\text{m}$	Gage Blocks and Bar Ball Check	ASME B89.4.10360.2 SOP 7.2-18	F1, F2, F3	O
Dimensional	Meter Counters Odometer	0.025 4 m to 999 m	0.5 % of reading	Direct Measure - Totalizer Counter	OIML R 55 SOP 7.2-59	F1, F2, F3	O



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Dimensional	Caliper	0.127 mm to 304.8 mm	9.5 $\mu$ m	Comparison to Gage Blocks and Caliper	ASME B89.1.14 SOP 7.2-02	F1, F2, F3	O
Dimensional	Caliper	0.005 in to 12 in	374 $\mu$ in	Comparison to Gage Blocks and Caliper	ASME B89.1.14 SOP 7.2-02	F1, F2, F3	O
Dimensional	Caliper	300.01 mm to 1 200 mm	(7.15 + 7.86 X 10 <sup>-3</sup> L) $\mu$ m	Comparison to Gage Blocks and Caliper	ASME B89.1.14 SOP 7.2-02	F1, F2, F3	F, O
Dimensional	Caliper	12.5 in to 48 in	(281 + 7.86L) $\mu$ in	Comparison to Gage Blocks and Caliper	ASME B89.1.14 SOP 7.2-02	F1, F2, F3	F, O
Dimensional	Micrometers	0.01 mm to 25 mm	0.63 $\mu$ m	Comparison to Gage Blocks	ASME B89.1.13 SOP 7.2-08	F1, F2, F3	F, O
Dimensional	Micrometers	0.000 5 in to 1 in	25 $\mu$ in	Comparison to Gage Blocks	ASME B89.1.13 SOP 7.2-08	F1, F2, F3	F, O
Dimensional	Micrometers	25.01 mm to 508 mm	(0.56 + 0.012L) $\mu$ m	Comparison to Gage Blocks	JIS B 7502 SOP 7.2-08	F1, F2, F3	F, O
Dimensional	Micrometers	1.000 5 in to 20 in	(22 + 120L) $\mu$ in	Comparison to Gage Blocks	JIS B 7502 SOP 7.2-08	F1, F2, F3	F, O
Dimensional	Metal Rules	1 mm to 2 400 mm	(58.85 + 1.58 x 10 <sup>-3</sup> L) $\mu$ m	ROI 30-4000-00 Vision System with Mitutoyo Digital Proscale	JIS B 7516 SOP 7.2-15	F1, F2, F3	F
Dimensional	Metal Rules	0.05 in to 98.425 in	(2 317 + 1.58L) $\mu$ in	ROI 30-4000-00 Vision System with Mitutoyo Digital Proscale	JIS B 7516 SOP 7.2-15	F1, F2, F3	F



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Dimensional	Height Gages	10 mm to 900 mm	$(0.504 + 8.55 \times 10^{-3}L) \mu\text{m}$	Comparison to Height Master Step Gage and Gage Blocks	JIS B 7517. SOP 7.2-09	F1, F2, F3	F, O
Dimensional	Height Gages	0.4 in to 36 in	$(19.8 + 8.55L) \mu\text{in}$	Comparison to Height Master Step Gage and Gage Blocks	JIS B 7517. SOP 7.2-09	F1, F2, F3	F, O
Dimensional	Surface Plate (Flatness)	0.02 in to 157 in (Diagonal)	$(57.21 + 2.33 \times 10^{-2}L) \mu\text{in}$	Electronic Levels	ASME B89.3.7 SOP 7.2-21	F1, F2, F3	F, O
Dimensional	Surface Plate (Repeat Reading)	0.02 in to 0.002 in	20 $\mu\text{in}$	Repeat-o-Meter with 0.000 02 indicator	ASME B89.3.7 SOP 7.2-21	F1, F2, F3	F, O
Dimensional	Dial Indicators	0.02 in to 2 in	$(211 + 10.4L) \mu\text{in}$	Pratt & Whitney LabMaster Universal / Gage Blocks Grade 2	ASME B89.1.10M SOP 7.2-10	F1, F2, F3	F
Dimensional	Digital Indicators	0.01 mm to 25 mm	$(2.95 \times 10^{-1} + 5.42 \times 10^{-3}L) \mu\text{m}$	Pratt & Whitney LabMaster Universal / Gage Blocks Grade 00	ASME B89.1.10M SOP 7.2-10	F1, F2, F3	F
Dimensional	LVDT's /Indicators / Bore Gages	Up to 50 mm (Res.= 0.1 $\mu\text{m}$ )	$(0.29 + 5.1 \times 10^{-3}L) \mu\text{m}$	Pratt & Whitney Labmaster Universal/ Indicator Calibrator, Gage Blocks	ASME B89.1.10M SOP 7.2-10	F1, F2, F3	F, O
Dimensional	LVDT's /Indicators / Bore Gages	Up to 50 mm (Res.= 0.5 $\mu\text{m}$ )	$(0.46 + 4.3 \times 10^{-3}L) \mu\text{m}$	Pratt & Whitney Labmaster Universal/ Indicator Calibrator, Gage Blocks	ASME B89.1.10M SOP 7.2-10	F1, F2, F3	F, O



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Dimensional	LVDT's /Indicators / Bore Gages	Up to 50 mm (Res.= 1 $\mu$ m)	$(0.64 + 3.1 \times 10^{-3}L) \mu$ m	Pratt & Whitney Labmaster Universal/ Indicator Calibrator, Gage Blocks	ASME B89.1.10M SOP 7.2-10	F1, F2, F3	F, O
Dimensional	LVDT's /Indicators / Bore Gages	Up to 50 mm (Res.= 2 $\mu$ m)	$(1.19 + 1.84 \times 10^{-3}L) \mu$ m	Pratt & Whitney Labmaster Universal/ Indicator Calibrator, Gage Blocks	ASME B89.1.10M SOP 7.2-10	F1, F2, F3	F, O
Dimensional	LVDT's /Indicators / Bore Gages	Up to 50 mm (Res.= 5 $\mu$ m)	$(2.9 + 8.2 \times 10^{-4}L) \mu$ m	Pratt & Whitney Labmaster Universal/ Indicator Calibrator, Gage Blocks	ASME B89.1.10M SOP 7.2-10	F1, F2, F3	F, O
Dimensional	LVDT's /Indicators / Bore Gages	Up to 50 mm (Res.= 10 $\mu$ m)	$(5.78 + 4.09 \times 10^{-4}L) \mu$ m	Pratt & Whitney Labmaster Universal/ Indicator Calibrator, Gage Blocks	ASME B89.1.10M SOP 7.2-10	F1, F2, F3	F, O
Dimensional	Cylindrical Diameter Outside and Limit Gages	0.1 mm to 300 mm	$(0.19 + 0.0015L) \mu$ m	Pratt & Whitney Labmaster Universal and Gage Blocks	ASME B89.1.6 SOP 7.2-16 SOP 7.2-26	F1, F2, F3	F
Dimensional	Cylindrical Diameter Outside and Limit Gages	3.94 x 10 <sup>-3</sup> in to 11.81 in	$(7.4 + 1.5L) \mu$ in	Pratt & Whitney Labmaster Universal and Gage Blocks	ASME B89.1.5 SOP 7.2-16 SOP 7.2-26	F1, F2, F3	F
Dimensional	Cylindrical Diameter Outside and Limit Gages	0.1 mm to 25 mm	0.25 $\mu$ m	Laser Scan Micrometer3	ASME B89.1.6 SOP 7.2-16	F1, F2, F3	F
Dimensional	Thread Plug (Pitch Diameter)	Up to 12 in	$(18 + 4.2L) \mu$ in	Pratt & Whitney LabMaster Universal & Three Wire System	ASME B1.2 ASME B1.20.2M SOP 7.2-14	F1, F2, F3	F



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Dimensional	Thread Plug (Major Diameter)	Up to 10 in	(60 + 3.1L) $\mu$ m	Pratt & Whitney LabMaster Universal & Three Wire System	ASME B1.2 ASME B1.20.2M SOP 7.2-14	F1, F2, F3	F
Dimensional	Thread Ring (Major Diameter)	Up to 12 in	(29.78 + 12.58L) $\mu$ m	Pratt & Whitney LabMaster Universal and Gage Blocks	ASME B1.2 ASME B1.20.2M SOP 7.2-14	F1, F2, F3	F
Dimensional	Thread Ring (Pitch Diameter)	Up to 8 in	(119.75 + 2.6L) $\mu$ m	Pratt & Whitney LabMaster Universal and Internal Thread Probe	ASME B1.2 ASME B1.20.2M SOP 7.2-14	F1, F2, F3	F
Dimensional	Master Rings Gages	0.02 in to 10 in	(7.7 + 6.82L) $\mu$ m	Master Rings with Pratt & Whitney LabMaster	ASME B89.1.6 SOP 7.2-33	F1, F2, F3	F
Dimensional	Master Rings Gages	0.5 mm to 254 mm	(0.196 + 6.82 x 10 <sup>-3</sup> L) $\mu$ m	Master Rings with Pratt & Whitney LabMaster	ASME B89.1.6 SOP 7.2-33	F1, F2, F3	F
Dimensional	Angle Gage Blocks	1° to 90°	7.8 x 10 <sup>-6</sup> rad	CMM	JIS B 7510 SOP 7.2-28	F1, F2, F3	F
Dimensional	Precision Levels (Angle)	-400 rad to 400 rad	5.8 x 10 <sup>-6</sup> rad	Electronic Levels	JIS B 7510 SOP 7.2-28	F1, F2, F3	F
Dimensional	Digital Scale Ruler	1 mm to 2 000 mm	(10.25 + 75 x 10 <sup>-3</sup> L) $\mu$ m	Direct Comparison with Gage Blocks	JIS B 750 SOP 7.2-15	F1, F2, F3	F
Dimensional	Graduate Ruler and Measurement Tape	5 mm to 5 000 mm	0.11 mm	Digital Scale	OIML R 35-1 SOP 7.2-15	F1, F2, F3	F
Dimensional	Laser Scan Micrometer	0.1 mm to 50 mm	(0.025 + 1.75 x 10 <sup>-3</sup> L) $\mu$ m	Direct Comparison with Master Pin Gages	ISO 14638 SOP 7.2-36	F1, F2, F3	F, O



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Dimensional	Diameter of Sphere	0.1 mm to 100 mm	0.33 $\mu$ m	Direct Method Measure Linear Measuring Machine	ISO 14638 SOP 7.2-45	F1, F2, F3	F
Dimensional	Roughness Measuring Instruments	14 $\mu$ in	3 $\mu$ in	Surface Finish Specimen DI-025	JIS B 0601 SOP 7.2-50	F1, F2, F3	F
Dimensional	Roughness Measuring Instruments	16 $\mu$ in	3 $\mu$ in	Surface Finish Specimen DI-025	JIS B 0601 SOP 7.2-50	F1, F2, F3	F
Dimensional	Roughness Measuring Instruments	118 $\mu$ in	3 $\mu$ in	Surface Finish Specimen DI-025	JIS B 0601 SOP 7.2-50	F1, F2, F3	F
Dimensional	Roughness Measuring Instruments	2.9 $\mu$ m	0.03 $\mu$ m	Surface Finish Specimen DI-025	JIS B 0601 SOP 7.2-50	F1, F2, F3	F
Dimensional	Roughness Measuring Instruments	9.2 $\mu$ m	0.05 $\mu$ m	Surface Finish Specimen DI-025	JIS B 0601 SOP 7.2-50	F1, F2, F3	F
Dimensional	Line Scales (Glass Scales)	1 mm to 750 mm	(0.3 + 1 x 10 <sup>-3</sup> L) $\mu$ m	Vision System	CENAM Technical Guide SOP 7.2-15	F1, F2, F3	F
Dimensional	Universal Length Machine	0.5 mm to 500 mm	(0.1 + 1.01 x 10 <sup>-4</sup> L) $\mu$ m	Grade K Gage Blocks	DI-007 Internal Procedure SOP 7.2-60	F1, F2, F3	F, O
Dimensional	Handheld Laser Distance Meters	0.1 m to 20 m	(0.21 + 0.007L) mm	LEICA Laser Distance Meter	ISO 16631-1 SOP 7.2 -57	F1, F2, F3	F, O
Dimensional	Direct Verification of Durometer Hardness	2.46 mm to 2.54 mm	6.1 $\mu$ m	Video Comparator 20x	ASTM D2240 SOP 7.2-20	F1, F2, F3	F



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	Tester Types (A, B, C, D, O & DO) (Extension at Zero Reading)						
Dimensional	Direct Verification of Durometer Hardness Tester Types (A, C) (Indenter Tip Diameter)	0.76 mm to 0.82 mm	6.1 $\mu$ m	Video Comparator 20x	ASTM D2240 SOP 7.2-20	F1, F2, F3	F
Dimensional	Direct Verification of Durometer Hardness types (B, D) (Indenter Tip Radius)	0.88 mm to 0.112 mm	6.1 $\mu$ m	Video Comparator 20x	ASTM D2240 SOP 7.2-20	F1, F2, F3	F
Dimensional	Direct Verification of Durometer Hardness types (O, DO) (Indenter Tip Radius)	1.14 mm to 1.24 mm	6.1 $\mu$ m	Video Comparator 20x	ASTM D2240 SOP 7.2-20	F1, F2, F3	F
Dimensional	Direct Verification of Durometer Hardness types (A, C) (Indenter Tip Angle)	34.75° to 35.25°	0.1°	Video Comparator 20x	ASTM D2240 SOP 7.2-20	F1, F2, F3	F
Dimensional	Direct Verification of Durometer Hardness types (B, D) (Indenter Tip Angle)	29.5° to 30.5°	0.1°	Video Comparator 20x	ASTM D2240 SOP 7.2-20	F1, F2, F3	F
Thermodynamic	Infrared Temperature Measuring Devices	10 °C to 50 °C	0.2 °C	Venus Isotech Blackbody Source	ASTM E-1256 SOP 7.2-13	F1, F2, F3	F, O



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Ramon Rayon 1520-9, Pino Seco/Lote Bravo  
 Cd. Juárez, Chihuahua, México. C.P. 32550  
 Contact Name: Carlos Valenzuela. Phone: 656-617-6617

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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ( $\pm$ ) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Thermodynamic	Infrared Temperature Measuring Devices	50 °C to 500 °C	0.54 °C	Blackbody Source Hart 9132	JSA JIS C 1612 SOP 7.2-13	F1, F2, F3	F, O
Thermodynamic	Infrared Temperature Measuring Devices	500 °C to 1 000 °C	0.7 °C	IR Cavity 461 IR Industries	JSA JIS C 1612 SOP 7.2-13	F1, F2, F3	F, O
Thermodynamic	Equipment to Measure Temperature	-50 °C to 130 °C	0.05 °C	Venus ISO TECH Bath	CEM TH-001 SOP 7.2-13	F1, F2, F3	F, O
Thermodynamic	Equipment to Measure Temperature	50 °C to 250 °C	0.01 °C	6331 Fluke Calibration Bath	CEM TH-001 SOP 7.2-13	F1, F2, F3	F, O
Thermodynamic	Equipment to Measure Temperature	50 °C to 660 °C	0.07 °C	9144 Fluke Metrology Well	CEM TH-001 SOP 7.2-13	F1, F2, F3	F, O
Thermodynamic	Temperature Wells and Baths	-50 °C to 155 °C	0.02 °C	Fluke 8508A and PRT	Euramet-cg-13 SOP 7.2-61	F1, F2, F3	F
Thermodynamic	Temperature Wells and Baths	155 °C to 250 °C	0.03 °C	Fluke 8508A and PRT	Euramet-cg-13 SOP 7.2-61	F1, F2, F3	F
Thermodynamic	Temperature Wells and Baths	250 °C to 425 °C	0.04 °C	Fluke 8508A and PRT	Euramet-cg-13 SOP 7.2-61	F1, F2, F3	F
Thermodynamic	Temperature Wells and Baths	425 °C to 500 °C	0.05 °C	Fluke 8508A and PRT	Euramet-cg-13 SOP 7.2-61	F1, F2, F3	F
Thermodynamic	Temperature Wells and Baths	500 °C to 660 °C	0.06 °C	Fluke 8508A and PRT	Euramet-cg-13 SOP 7.2-61	F1, F2, F3	F
Thermodynamic	Thermal Hygrometers (Humidity)	5 % RH to 95 % RH	1 % of reading	Vaisala MI70/HMP75 Humidity Chamber	CEM TH-007 SOP 7.2-27	F1, F2, F3	F
Thermodynamic	Thermal Hygrometers (Temperature)	-10 °C to 60 °C	0.03 °C	Vaisala MI70/HMP75 Humidity Chamber	CEM TH-007 SOP 7.2-27	F1, F2, F3	F
Thermodynamic	Thermal Hygrometers (Humidity) (Fixed Point)	10 % RH	0.4 % of reading	Rotronic Humidity Standards Feutchenormal	CEM TH-007 SOP 7.2-55	F1, F2, F3	F



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				Humidity Standards			
Thermodynamic	Thermal Hygrometers (Humidity) (Fixed Point)	35 % RH	0.5 % of reading	Rotronic Humidity Standards Feutchenormal Humidity Standards	CEM TH-007 SOP 7.2-55	F1, F2, F3	F
Thermodynamic	Thermal Hygrometers (Humidity) (Fixed Point)	50 % RH	0.7 % of reading	Rotronic Humidity Standards Feutchenormal Humidity Standards	CEM TH-007 SOP 7.2-55	F1, F2, F3	F
Thermodynamic	Thermal Hygrometers (Humidity) (Fixed Point)	75 % RH	0.8 % of reading	Rotronic Humidity Standards Feutchenormal Humidity Standards	CEM TH-007 SOP 7.2-55	F1, F2, F3	F
Thermodynamic	Thermal Hygrometers (Humidity) (Fixed Point)	95 % RH	0.9 % of reading	Rotronic Humidity Standards Feutchenormal Humidity Standards	CEM TH-007 SOP 7.2-55	F1, F2, F3	F
Optical	Luxmeters	10 Lux to 30 000 Lux	2.9 % of reading	Konica Minolta T-10	CNM-MFO-PT-004 SOP 7.2-34	F1, F2, F3	F
Optical	Power and Energy Meter	10 mW to 10 W	3 % of reading	Thermal Power Sensor Head	Comparison Method with PD100 reader and S310C SOP 7.2-40	F1, F3	F



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Optical	Irradiance Ultraviolet Light (@ 320 nm to 400 nm)	0 mW/cm <sup>2</sup> to 20 W/cm <sup>2</sup>	1.2 % of reading	OMNICURE S2000 System, Model XR-3000	Comparison Method with Radiometer Photometer SOP 7.2-40	F1, F3	F
Optical	Illuminance -Visible Light (@ 460 nm to 675 nm)	0 Lux to 5 300 Lux	1.2 % of reading	OMNICURE S2000 System, Model XR-3000	Comparison Method with Radiometer Photometer SOP 7.2-40	F1, F3	F
Mechanical	Indirect Verification of Rockwell Hardness Testers HRB	20 HRB to 59 HRB	1.1 HRB	Standardized Test Blocks	ASTM E 18 SOP 7.2-19	F1, F2, F3	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRB	60 HRB to 84 HRB	0.66 HRB	Standardized Test Blocks	ASTM E 18 SOP 7.2-19	F1, F2, F3	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRB	85 HRB to 100 HRB	0.49 HRB	Standardized Test Blocks	ASTM E 18 SOP 7.2-19	F1, F2, F3	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRC	20 HRC to 34 HRC	0.42 HRC	Standardized Test Blocks	ASTM E 18 SOP 7.2-19	F1, F2, F3	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRC	35 HRC to 59 HRC	0.35 HRC	Standardized Test Blocks	ASTM E 18 SOP 7.2-19	F1, F2, F3	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRC	60 HRC to 70 HRC	0.33 HRC	Standardized Test Blocks	ASTM E 18 SOP 7.2-19	F1, F2, F3	F, O



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Mechanical	Indirect Verification of Rockwell Hardness Testers HR30N	42 HR30N to 54 HR30N	0.44 HR30N	Standardized Test Blocks	ASTM E 18 SOP 7.2-19	F1, F2, F3	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HR30N	55 HR30N to 76 HR30N	0.34 HR30N	Standardized Test Blocks	ASTM E 18 SOP 7.2-19	F1, F2, F3	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HR30N	77 HR30N to 82 HR30N	0.31 HR30N	Standardized Test Blocks	ASTM E 18 SOP 7.2-19	F1, F2, F3	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HR15TW	57 HR15TW to 81 HR15TW	0.47 HR15TW	Standardized Test Blocks	ASTM E 18 SOP 7.2-19	F1, F2, F3	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HR15N	55 HR15N to 78 HR15N	0.44 HR15N	Standardized Test Blocks	ASTM E 18 SOP 7.2-19	F1, F2, F3	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRFW	55 HRFW to 78 HRFW	0.33 HRFW	Standardized Test Blocks	ASTM E 18 SOP 7.2-19	F1, F2, F3	F, O
Mechanical	Gas Flowmeter	10 sccm to 1 000 sccm	0.36 % of reading	Alicat Flow Portable Calibration Unit	CEM/ME-009 SOP 7.2-25	F1, F2, F3	F, O
Mechanical	Gas Flowmeter	0.1 slpm to 50 slpm	0.52 % of reading	Alicat Flow Portable Calibration Unit	CEM/ME-009 SOP 7.2-25	F1, F2, F3	F, O
Mechanical	Gas Flowmeter	50 slpm to 500 slpm	0.33 % of reading	Alicat Flow Portable Calibration Unit	CEM/ME-009 SOP 7.2-25	F1, F2, F3	F, O
Mechanical	Gas Flowmeter	0.2 sccm to 2 sccm	1 % of reading	ATEQ CDF	CEM/ME-009 SOP 7.2-25	F1, F2, F3	F, O



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Mechanical	Gas Flowmeter	1 sccm to 40 sccm	0.77 % of reading	ATEQ CDF	CEM/ME-009 SOP 7.2-25	F1, F2, F3	F, O
Mechanical	Flow Devices (Water Flow)	1 L/min to 1 000 L/min	0.12 % of reading	Gravimetric Method	CEM- ME- 008 SOP 7.2-51	F1, F2, F3	F
Mechanical	Pressure Devices (w/Oil)	200 psi to 20 000 psi	0.01 % of reading	P3116-3 Fluke Dead Weight Tester opt 0.008 %	Euramet-cg-3 Euramet/cg-17 SOP 7.2-07 SOP 7.2-56	F1, F2, F3	F
Mechanical	Pressure Device	-103.5 kPa to 34.5 kPa	0.07 % of reading	Fluke Calibration P3025-KPA-P Deadweight Tester	Euramet-cg-3 Euramet/cg-17 SOP 7.2-07 SOP 7.2-56	F1, F2, F3	F
Mechanical	Pressure Device	-15 psi to 5 psi	0.07 % of reading	Fluke Calibration P3025-KPA-P Deadweight Tester	Euramet-cg-3 Euramet/cg-17 SOP 7.2-07 SOP 7.2-56	F1, F2, F3	F
Mechanical	Pressure Device	34.5 kPa to 344.8 kPa	0.03 % of reading	Fluke Calibration P3025-KPA-P Deadweight Tester	Euramet-cg-3 Euramet/cg-17 SOP 7.2-07 SOP 7.2-56	F1, F2, F3	F
Mechanical	Pressure Device	5 psi to 50 psi	0.03 % of reading	Fluke Calibration P3025-KPA-P Deadweight Tester	Euramet-cg-3 Euramet/cg-17 SOP 7.2-07 SOP 7.2-56	F1, F2, F3	F



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Mechanical	Pressure Device	275.8 kPa to 3.45 MPa	0.02 % of reading	Fluke Calibration P3025-KPA-P Deadweight Tester	Euramet-cg-3 Euramet/cg-17 SOP 7.2-07 SOP 7.2-56	F1, F2, F3	F
Mechanical	Pressure Device	40 psi to 500 psi	0.02 % of reading	Fluke Calibration P3025-KPA-P Deadweight Tester	Euramet-cg-3 Euramet/cg-17 SOP 7.2-07 SOP 7.2-56	F1, F2, F3	F
Mechanical	Pressure Devices (w/Air)	-82.7 kPa to 3 500 kPa	0.01 % of reading	PPC4 Pressure Calibrator & Q-RPT Gauge, Negative Gauge and Absolute	CEM ME-010 Euramet-g-17 SOP 7.2-07 SOP 7.2-56	F1, F2, F3	F, O
Mechanical	Pressure Devices (w/Air)	-12 psi to 500 psi	0.01 % of reading	PPC4 Pressure Calibrator & Q-RPT Gauge, Negative Gauge and Absolute	CEM ME-010 Euramet-g-17 SOP 7.2-07 SOP 7.2-56	F1, F2, F3	F, O
Mechanical	Differential Pressure Devices	-2 in H <sub>2</sub> O to 2 in H <sub>2</sub> O	0.002 in H <sub>2</sub> O	Dwyer 1430 Microtector	CEM-ME- 020 SOP 7.2-07 SOP 7.2-56	F1, F2, F3	F
Mechanical	Torque Transducers (Clockwise & Counter-Clockwise)	1.3 N•m to 813.5 N•m	0.026 % of reading	Torque –Dead Weight Primary Standard	ASTM E2428 Euramet-cg-14 SOP 7.2-06	F1, F2, F3	F
Mechanical	Torque Transducers (Clockwise & Counter-Clockwise)	1 lbf•ft to 600 lbf•ft	0.026 % of reading	Torque –Dead Weight Primary Standard	ASTM E2428 Euramet-cg-14 SOP 7.2-06	F1, F2, F3	F



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Mechanical	Air Velocity Measuring Equipment	0.25 m/s to to 30 m/s	0.38 % of reading + 0.02 m/s	Wind Tunnel and Rotating Vane Anemometer/	ASTM D5096 SOP 7.2-49	F1, F2, F3	F
Mechanical	Air Velocity Measuring Equipment	100 ft/min to 6 013 ft/min	0.38 % of reading + 3.9 ft/min	Wind Tunnel and Rotating Vane Anemometer/	ASTM D5096 SOP 7.2-49	F1, F2, F3	F
Mechanical	Torque Hand Tools and Torque Power Tools	0.113 N•m to 11.3 N•m	0.08 % of reading	System & Digital Torque Tester with QC Transducers	ISO 6789 Euramet-cg-14 SOP 7.2-37	F1, F2, F3	F, O
Mechanical	Torque Hand Tools and Torque Power Tools	0.1 in•lb to 100 in•lb	0.08 % of reading	System & Digital Torque Tester with QC Transducers	ISO 6789 Euramet-cg-14 SOP 7.2-37	F1, F2, F3	F, O
Mechanical	Torque Hand Tools and Torque Power Tools	1.13 N•m to 338.9 N•m	0.12 % of reading	System & Digital Torque Tester with QC Transducers	ISO 6789 Euramet-cg-14 SOP 7.2-37	F1, F2, F3	F, O
Mechanical	Torque Hand Tools and Torque Power Tools	10 in•lb to 3 000 in•lb	0.12 % of reading	System & Digital Torque Tester with QC Transducers	ISO 6789 Euramet-cg-14 SOP 7.2-37	F1, F2, F3	F, O
Mechanical	Torque Hand Tools and Torque Power Tools	81.3 N•m to 813.5 N•m	0.15 % of reading	System & Digital Torque Tester with QC Transducers	ISO 6789 Euramet-cg-14 SOP 7.2-37	F1, F2, F3	F, O
Mechanical	Torque Hand Tools and Torque Power Tools	60 ft•lb to 600 ft•lb	0.15 % of reading	System & Digital Torque Tester with QC Transducers	ISO 6789 Euramet-cg-14 SOP 7.2-37	F1, F2, F3	F, O



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Fluid Quantities	Pipettes/Burettes	10 $\mu$ L to 1 000 $\mu$ L	0.3 % of reading	Gravimetric Method	ASTM E1154 CENAM Technical Guide SOP 7.2-46	F1, F2, F3	F
Fluid Quantities	Pipettes/Burettes	1 mL to 2 000 mL	0.2 % of reading	Gravimetric Method	ASTM E1154 CENAM Technical Guide SOP 7.2-46	F1, F2, F3	F
Fluid Quantities	Micropipettes	1 $\mu$ L to 10 $\mu$ L	1.2 % of reading	Gravimetric Method	ASTM E1154 CENAM Technical Guide SOP 7.2-46	F1, F2, F3	F
Mass, Force and Weighting Devices	Analytical Balances	1 mg to 20 g (Res.= 0.01 mg)	$(1.35 \times 10^{-2} + 3.98 \times 10^{-6} \text{Wt})$ mg	Class E2 Weights	OIML R 76-1 SOP 7.2-05	F1, F2, F3	O
Mass, Force and Weighting Devices	Analytical Balances	20 g to 500 g (Res.= 0.1 mg)	$(1.15 \times 10^{-1} + 1.63 \times 10^{-6} \text{Wt})$ mg	Class E2 Weights	OIML R 76-1 SOP 7.2-05	F1, F2, F3	O
Mass, Force and Weighting Devices	Analytical Balances	500 g to 2 kg (Res.= 0.5 mg)	$(2.82 \times 10^{-1} + 1.62 \times 10^{-6} \text{Wt})$ mg	Class E2 Weights	OIML R 76-1 SOP 7.2-05	F1, F2, F3	O
Mass, Force and Weighting Devices	Analytical Balances	2 kg to 30 kg (Res.= 1 mg)	$(1.17 \times 10^{-1} + 1.77 \times 10^{-6} \text{Wt})$ mg	Class E2 Weights	OIML R 76-1 SOP 7.2-05	F1, F2, F3	O
Mass, Force and Weighting Devices	Scales and Balances Class III	454 g to 4.54 kg (Res.= 0.2 g)	$(2.09 \times 10^{-1} + 7.93 \times 10^{-5} \text{Wt})$ g	Class F Weights	OIML R 76-1 NIST HB 44 SOP 7.2-05	F1, F2, F3	O



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Mass, Force and Weighting Devices	Scales and Balances Class III	4.54 kg to 9.08 kg (Res.= 1 g)	$(9.71 \times 10^{-1} + 6.50 \times 10^{-5} \text{Wt})$	Class F Weights	OIML R 76-1 NIST HB 44 SOP 7.2-05	F1, F2, F3	O
Mass, Force and Weighting Devices	Scales and Balances Class III	9.08 kg to 22.7 kg (Res.= 2 g)	$(1.88 + 7.21 \times 10^{-5} \text{Wt}) \text{ g}$	Class F Weights	OIML R 76-1 NIST HB 44 SOP 7.2-05	F1, F2, F3	O
Mass, Force and Weighting Devices	Scales and Balances Class III	22.7 kg to 45.4 kg (Res.= 5 g)	$(4.94 + 6.22 \times 10^{-5} \text{Wt}) \text{ g}$	Class F Weights	OIML R 76-1 NIST HB 44 SOP 7.2-05	F1, F2, F3	O
Mass, Force and Weighting Devices	Scales and Balances Class III	45.4 kg to 227 kg (Res.= 10 g)	$(8.58 + 8.97 \times 10^{-5} \text{Wt}) \text{ g}$	Class F Weights	OIML R 76-1 NIST HB 44 SOP 7.2-05	F1, F2, F3	O
Mass, Force and Weighting Devices	Scales and Balances Class III	227 kg to 2 270 kg (Res.= 0.2 kg)	$(219 + 5.85 \times 10^{-5} \text{Wt}) \text{ g}$	Class F Weights	OIML R 76-1 NIST HB 44 SOP 7.2-05	F1, F2, F3	O
Mass, Force and Weighting Devices	Scales and Balances Class III	2 270 kg to 4 540 kg (Res.= 0.5 kg)	$(0.494 + 6.22 \times 10^{-5} \text{Wt}) \text{ kg}$	Class F Weights	OIML R 76-1 NIST HB 44 SOP 7.2-05	F1, F2, F3	O
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2 M1, M2, M3	1 g	22 $\mu\text{g}$	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2 M1, M2, M3	2 g	25 $\mu\text{g}$	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F



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Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2 M1, M2, M3	5 g	40 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2 M1, M2, M3	10 g	43 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2 M1, M2, M3	20 g	68 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2 M1, M2, M3	50 g	80 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2 M1, M2, M3	100 g	100 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2 M1, M2, M3	200 g	200 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F



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Ramon Rayon 1520-9, Pino Seco/Lote Bravo  
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 Contact Name: Carlos Valenzuela. Phone: 656-617-6617

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Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	500 g	0.5 mg	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	1 kg	1.1 mg	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	2 kg	1.9 mg	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	5 kg	5 mg	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	10 kg	10 mg	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	20 kg	21 mg	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F



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Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	1 mg	5 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	2 mg	5 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	5 mg	5 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	10 mg	5 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	20 mg	6 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	50 mg	10 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F



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Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	100 mg	10 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	200 mg	12 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	500 mg	15 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets NIST 105-1 Class F Weights	1 oz	2.3 $\mu$ lb	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	5 mg	5 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	10 mg	5 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F



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Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	20 mg	6 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	50 mg	10 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	100 mg	10 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	200 mg	12 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets F1, F2, M1, M2, M3	500 mg	15 $\mu$ g	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets NIST 105-1 Class F Weights	1 oz	2.3 $\mu$ lb	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F



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Mass, Force and Weighting Devices	Mass, Weight and Weight Sets NIST 105-1 Class F Weights	2 oz	4.3 $\mu$ lb	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets NIST 105-1 Class F Weights	4 oz	8.3 $\mu$ lb	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets NIST 105-1 Class F Weights	8 oz	20 $\mu$ lb	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets NIST 105-1 Class F Weights	1 lb	37 $\mu$ lb	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets NIST 105-1 Class F Weights	2 lb	42 $\mu$ lb	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets NIST 105-1 Class F Weights	3 lb	49 $\mu$ lb	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F



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Mass, Force and Weighting Devices	Mass, Weight and Weight Sets NIST 105-1 Class F Weights	5 lb	65 $\mu$ lb	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets NIST 105-1 Class F Weights	10 lb	150 $\mu$ lb	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets NIST 105-1 Class F Weights	20 lb	290 $\mu$ lb	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Mass, Weight and Weight Sets NIST 105-1 Class F Weights	50 lb	980 $\mu$ lb	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R 111-1 SOP 7.2-24	F1, F2, F3	F
Mass, Force and Weighting Devices	Verification of Testing Machines (Tension and Compression)	1 N to 889 N	0.07 % of reading	Class F Weights	ASTM E4 ISO 376 SOP 7.2-01	F1, F2, F3	F
Mass, Force and Weighting Devices	Verification of Testing Machines (Tension and Compression)	1 lb•f to 200 lb•f	0.07 % of reading	Class F Weights	ASTM E4 ISO 376 SOP 7.2-01	F1, F2, F3	F



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Mass, Force and Weighting Devices	Verification of Testing Machines (Tension and Compression)	88.9 N to 4.41 kN	0.35 N	Morehouse-Calibration Load Cell with Hadi (High Accuracy Digital Indicator)	ASTM E4 ISO 376 SOP 7.2-01	F1, F2, F3	F
Mass, Force and Weighting Devices	Verification of Testing Machines (Tension and Compression)	20 lbf to 1 000 lbf	0.08 lbf	Morehouse-Calibration Load Cell with Hadi (High Accuracy Digital Indicator)	ASTM E4 ISO 376 SOP 7.2-01	F1, F2, F3	F
Mass, Force and Weighting Devices	Verification of Testing Machines (Tension and Compression)	889.6 N to 44.13 kN	3.5 N	Morehouse-Calibration Load Cell with Hadi (High Accuracy Digital Indicator)	ASTM E4 ISO 376 SOP 7.2-01	F1, F2, F3	F
Mass, Force and Weighting Devices	Verification of Testing Machines (Tension and Compression)	200 lbf to 10 000 lbf	0.8 lbf	Morehouse-Calibration Load Cell with Hadi (High Accuracy Digital Indicator)	ASTM E4 ISO 376 SOP 7.2-01	F1, F2, F3	F
Mass, Force and Weighting Devices	Direct Verification of Durometer Hardness (Types A, B, E & O) (Durometer Indentor Spring)	0.55 N to 8.05 N	0.01 N	Load Cell	ASTM D2240 SOP 7.2-20	F1, F2, F3	F



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Mass, Force and Weighting Devices	Direct Verification of Durometer Hardness (Types C, D & DO) (Durometer Indentor Spring)	4.445 N to 44.45 N	0.1 N	Load Cell	ASTM D2240 SOP 7.2-20	F1, F2, F3	F
Chemical	pH Meter (Fixed Point)	4 pH	0.009 pH	CRMs-pH Buffer Solution	CEM QU-003 SOP 7.2-39	F1, F2, F3	F
Chemical	pH Meter (Fixed Point)	7 pH	0.009 pH	CRMs-pH Buffer Solution	CEM QU-003 SOP 7.2-39	F1, F2, F3	F
Chemical	pH Meter (Fixed Point)	10 pH	0.009 pH	CRMs-pH Buffer Solution	CEM QU-003 SOP 7.2-39	F1, F2, F3	F
Chemical	Conductivity Meters (Fixed Point)	10 $\mu$ S	0.5 $\mu$ S	CRMs- Conductivity Standard Solutions to Measure Electrolytic Conductivity	CENAM- Technical Guide SOP 7.2-41	F1, F2, F3	F, O
Chemical	Conductivity Meters (Fixed Point)	100 $\mu$ S	2.2 $\mu$ S	CRMs- Conductivity Standard Solutions to Measure Electrolytic Conductivity	CENAM- Technical Guide SOP 7.2-41	F1, F2, F3	F, O
Chemical	Conductivity Meters (Fixed Point)	1000 $\mu$ S	3.7 $\mu$ S	CRMs- Conductivity Standard Solutions to Measure Electrolytic Conductivity	CENAM- Technical Guide SOP 7.2-41	F1, F2, F3	F, O



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Chemical	Conductivity Meters (Fixed Point)	10 000 $\mu$ S	36 $\mu$ S	CRMs- Conductivity Standard Solutions to Measure Electrolytic Conductivity	CENAM- Technical Guide SOP 7.2-41	F1, F2, F3	F, O
Chemical	Conductivity Meters (Fixed Point)	100 000 $\mu$ S	430 $\mu$ S	CRMs- Conductivity Standard Solutions to Measure Electrolytic Conductivity	CENAM- Technical Guide SOP 7.2-41	F1, F2, F3	F, O
Chemical	Dynamic Viscometers Rotational	9 cP	0.027 cP	Reference Standard Silicone Oils	ASTM D445 SOP 7.2-47	F1, F2, F3	F
Chemical	Dynamic Viscometers Rotational	96 cP	0.35 cP	Reference Standard Silicone Oils	ASTM D445 SOP 7.2-47	F1, F2, F3	F
Chemical	Dynamic Viscometers Rotational	969 cP	3.5 cP	Reference Standard Silicone Oils	ASTM D445 SOP 7.2-47	F1, F2, F3	F
Chemical	Dynamic Viscometers Rotational	11 860 cP	61 cP	Reference Standard Silicone Oils	ASTM D445 SOP 7.2-47	F1, F2, F3	F
Chemical	Dynamic Viscometers Rotational	59 940 cP	290 cP	Reference Standard Silicone Oils	ASTM D445 SOP 7.2-47	F1, F2, F3	F
Chemical	Kinematic Viscosity Zahn, Ford, Dip and ISO Cups	17 mm <sup>2</sup> /sec	0.49 mm <sup>2</sup> /sec	Viscosity Standards	ASTM D4212, ASTM 1200, ASTM D4212 and ISO 2431 SOP 7.2-31	F1, F2, F3	F



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Chemical	Kinematic Viscosity Zahn, Ford, Dip and ISO Cups	34 mm <sup>2</sup> /sec	0.51 mm <sup>2</sup> /sec	Viscosity Standards	ASTM D4212, ASTM 1200, ASTM D4212 and ISO 2431 SOP 7.2-31	F1, F2, F3	F
Chemical	Kinematic Viscosity Zahn, Ford, Dip and ISO Cups	120 mm <sup>2</sup> /sec	0.55 mm <sup>2</sup> /sec	Viscosity Standards	ASTM D4212, ASTM 1200, ASTM D4212 and ISO 2431 SOP 7.2-31	F1, F2, F3	F
Chemical	Kinematic Viscosity Zahn, Ford, Dip and ISO Cups	230 mm <sup>2</sup> /sec	0.59 mm <sup>2</sup> /sec	Viscosity Standards	ASTM D4212, ASTM 1200, ASTM D4212 and ISO 2431 SOP 7.2-31	F1, F2, F3	F
Chemical	Kinematic Viscosity Zahn, Ford, Dip and ISO Cups	710 mm <sup>2</sup> /sec	0.6 mm <sup>2</sup> /sec	Viscosity Standards	ASTM D4212, ASTM 1200, ASTM D4212 and ISO 2431 SOP 7.2-31	F1, F2, F3	F
Chemical	Gas analyzer Oxygen (O <sub>2</sub> )	0.002 cmol/mol to 21 cmol/mol	0.5 % of reading	Certified Reference Material	QU- 012 ISO 6145 SOP 7.2-58	F1, F2, F3	F, O



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Time and Frequency	Tachometer	1 rpm to 999.9 rpm	0.06 rpm	Agilent 53132A	CENAM Technical Guide SOP 7.2-12	F1, F2, F3	F
Time and Frequency	Tachometer	1 000 rpm to 100 000 rpm	0.006 % of reading	Agilent 53132A	CENAM Technical Guide SOP 7.2-12	F1, F2, F3	F, O
Time and Frequency	Equipment to Measure Frequency	0.1 Hz to 225 MHz	6.8 MHz	Agilent 53132A OPC 030, 012	CENAM Technical Guide SOP 7.2-12	F1, F2, F3	F, O
Time and Frequency	Equipment to Measure Frequency	100 MHz to 3 GHz	110 MHz	Agilent 53132A OPC 030, 012	CENAM Technical Guide SOP 7.2-12	F1, F2, F3	F, O
Time and Frequency	Electrical Simulation Frequency	0.01 Hz to 2 MHz	1.9 $\mu$ Hz/Hz + 3.9 $\mu$ Hz	Fluke 5522A	T.O. 33K4-4-20-1	F1, F2	F, O
Time and Frequency	Digital Stopwatch Timer and Time Base Error	Up to 24 s/day	0.95 s/day	Agilent 53132A (Option 12) and Fluke 199C, Scope Meter NIST	Practice Guide Special Publication 960-12 SOP 7.2-11	F1, F2, F3	O
Time and Frequency	Time Counters	5 ms to 3 600 s	1.2 ms	Agilent 53132A (Option 12) and Fluke 199C, Scope Meter NIST	Practice Guide Special Publication 960-12 SOP 7.2-11	F1, F2, F3	F, O
Time and Frequency	Microwave Frequency Counter	10 Hz to 500 MHz	1 Hz	HP5343A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O



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Ramon Rayon 1520-9, Pino Seco/Lote Bravo  
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 Contact Name: Carlos Valenzuela. Phone: 656-617-6617

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Time and Frequency	Microwave Frequency Counter	500 MHz to 26.5 GHz	1 Hz	HP5343A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Time and Frequency	CW Model Frequency	0.01 GHz to 26.5 GHz	10 kHz	HP8340B HP8902A W/11722	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Time and Frequency	Spectrum Analyzer Sweep Time	10 ms to 50 s	0.39 % of reading	HP 8593A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Time and Frequency	Spectrum Analyzer Frequency Modulation (@ 20 Hz to 100 kHz) (400 kHz Peak)	10 MHz to 1 300 MHz	2.1 % of reading	HP8340B HP8902A W/11722	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Time and Frequency	Spectrum Analyzer (Pulse Modulation)	0.01 MHz to 400 MHz	25 ns	Rise/Fall Time HP 8340B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Time and Frequency	Spectrum Analyzer (Pulse Modulation)	0.01 MHz to 26.5 MHz (Band 0)	1.4 MHz	Rise/Fall Time HP 8340B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Time and Frequency	Spectrum Analyzer (Pulse Modulation)	0.01 MHz to 26.5 MHz (Band 1 to 4)	0.053 MHz	Rise/Fall Time HP 8340B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Magnetic Source (Verification of Gauss Meter)	100 G 1000 G	0.41 G	Magnetic Instrumentation References Fixed Points	A312-100/A312-1K SOP 7.2-44	F1, F2, F3	F, O



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Electrical	Equipment to Measure Power Reference (@ 50 MHz)	240 $\mu$ W to 16 $\mu$ W	81.5 $\mu$ W	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 100 kHz to 600 kHz) (75 $\Omega$ )	20 dB to -30 dB	0.057 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 600 kHz to 2 GHz) (75 $\Omega$ )	20 dB to -30 dB	0.059 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 300 kHz to 1 MHz) (50 $\Omega$ )	20 dB to -20 dB	0.049 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 1 MHz to 2 GHz) (50 $\Omega$ )	20 dB to -20 dB	0.051 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 2 GHz to 4.2 GHz) (50 $\Omega$ )	20 dB to -20 dB	0.05 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O



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Electrical	Equipment to Measure Power Reference (@ 300 kHz to 1 MHz) (50 $\Omega$ )	-20 dB to -20 dB	0.049 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 10 MHz to 30 MHz) (50 $\Omega$ )	-20 dB to -70 dB	0.074 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 30 MHz to 4 GHz) (50 $\Omega$ )	-20 dB to -70 dB	0.074 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 4 GHz to 10 GHz) (50 $\Omega$ )	-20 dB to -70 dB	0.074 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 10 GHz to 15 GHz) (50 $\Omega$ )	-20 dB to -70 dB	0.1 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 15 GHz to 18 GHz) (50 $\Omega$ )	-20 dB to -70 dB	0.11 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O



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Electrical	Equipment to Measure Power Reference (@ 50 MHz to 100 MHz) (50 $\Omega$ )	20 dB to -30 dB	0.06 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 0.1 GHz to 2 GHz) (50 $\Omega$ )	20 dB to -30 dB	0.075 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 2 GHz to 12.4 GHz) (50 $\Omega$ )	20 dB to -30 dB	0.062 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 12.4 GHz to 18 GHz) (50 $\Omega$ )	20 dB to -30 dB	0.065 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 18 GHz to 26.5 GHz) (50 $\Omega$ )	20 dB to -30 dB	0.099 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 26.5 GHz to 40 GHz) (50 $\Omega$ )	20 dB to -30 dB	0.097 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O



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Electrical	Equipment to Measure Power Reference (@ 40 GHz to 50 GHz) (50 $\Omega$ )	20 dB to -30 dB	0.13 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 50 MHz to 100 MHz) (50 $\Omega$ )	-20 dB to -70 dB	0.054 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 0.1 GHz to 2 GHz) (50 $\Omega$ )	-20 dB to -70 dB	0.054 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 2 GHz to 12.4 GHz) (50 $\Omega$ )	-20 dB to -70 dB	0.058 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 12.4 GHz to 18 GHz) (50 $\Omega$ )	-20 dB to -70 dB	0.068 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O



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Electrical	Equipment to Measure Power Reference (@ 18 GHz to 26.5 GHz) (50 $\Omega$ )	-20 dB to -70 dB	0.095 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 26.5 GHz to 40 GHz) (50 $\Omega$ )	-20 dB to -70 dB	0.11 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 40 GHz to 50 GHz) (50 $\Omega$ )	-20 dB to -70 dB	0.19 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 100 kHz to 2.6 GHz) (50 $\Omega$ )	30 dB to -20 dB	0.071 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 50 MHz to 1 300 MHz) (50 $\Omega$ )	30 dB to -20 dB	0.071 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O



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Electrical	Equipment to Measure Power Reference (@ 1.3 GHz to 18 GHz) (50 $\Omega$ )	30 dB to -20 dB	0.081 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure Power Reference (@ 18 GHz to 26.5 GHz) (50 $\Omega$ )	30 dB to -20 dB	0.092 dB	Fluke 9640A/LPN Agilent E4418B HP 8482A, HP 8481D Agilent U2004A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Power Meter Output Power Accuracy (Band 0) (@ 0.01 GHz to 2.3 GHz)	20 dB to 10 dB	0.9 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Power Meter Output Power Accuracy (Band 0) (@ 0.01 GHz to 2.3 GHz)	10 dB to -9.95 dB	0.9 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Power Meter Output Power Accuracy (Band 0) (@ 0.01 GHz to 2.3 GHz)	-10 dB to 19.95 dB	1.2 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O



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Electrical	Power Meter Output Power Accuracy (Band 0) (@ 0.01 GHz to 2.3 GHz)	-20 dB to 49.95 dB	1.5 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Power Meter Output Power Accuracy (Band 0) (@ 0.01 GHz to 2.3 GHz)	-50 dB to -79.95 dB	1.8 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter (SOP)	F1, F2	F, O
Electrical	Power Meter Output Power Accuracy (Band 0) (0.01 GHz to 2.3 GHz)	-80 dB to -99.95 dB	2.1 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Power Meter Output Power Accuracy (Band 0) (@ 0.01 GHz to 2.3 GHz)	-100 dB to -110 dB	2.1 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Output Power Accuracy (Band 1-3) (@ 2.3 GHz to 20 GHz)	18 dB to 10 dB	1.8 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Output Power Accuracy (Band 1-3) (@ 2.3 GHz to 20 GHz)	10 dB to -9.95 dB	1.5 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Output Power Accuracy (Band 1-3) (@ 2.3 GHz to 20 GHz)	-10 dB to 19.95 dB	2 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O



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Electrical	Output Power Accuracy (Band 1-3) (@ 2.3 GHz to 20 GHz)	-20 dB to 49.95 dB	2.3 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Output Power Accuracy (Band 1-3) (@ 2.3 GHz to 20 GHz)	-50 dB to -79.95 dB	2.6 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Output Power Accuracy (Band 1-3) (@ 2.3 GHz to 20 GHz)	-80 dB to -100 dB	2.9 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Output Power Accuracy (Band 1-3) (@ 2.3 GHz to 20 GHz)	20 dB to -110 dB	2.9 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Output Power Accuracy (Band 4) (@ 20 GHz to 26.5 GHz)	18 dB to 10 dB	2.3 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Output Power Accuracy (Band 4) (@ 20 GHz to 26.5 GHz)	10 dB to -9.95 dB	2 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Output Power Accuracy (Band 4) (@ 20 GHz to 26.5 GHz)	-10 dB to 19.95 dB	2.5 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Output Power Accuracy (Band 4) (@ 20 GHz to 26.5 GHz)	-20 dB to 49.95 dB	2.8 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Output Power Accuracy (Band 4) (@ 20 GHz to 26.5 GHz)	-50 dB to -79.95 dB	3.1 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O



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Electrical	Output Power Accuracy (Band 4) (@ 20 GHz to 26.5 GHz)	-80 dB to -110 dB	3.4 dB	HP 8340B E4420B	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Frequency Modulation (@ 20 Hz to 10 kHz) (40 kHz Peak)	0.25 MHz to 10 MHz	2 % of reading + 1 digit	HP 8902A T.O. kkK1-4-60-1 Power Meter	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Frequency Modulation (@ 50 Hz to 100 kHz) (400 kHz Peak)	10 MHz to 1 300 MHz	1 % of reading + 1 digit	HP 8902A w/ HP 11722A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Single – Sideband Phase Noise Standard (Band 0-1) (@ 0.05 GHz to 7 GHz)	30 Hz (Offset from Carrier)	0.007 % of reading	HP 8593A	Euramet cg-12 T.O. kkK1-4-60-1 Power Meter SOP	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	5 $\mu$ V to 30 mV	20 $\mu$ V/V + 1 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	115 $\mu$ V to 3.3 V	11 $\mu$ V/V + 2 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	3.3 V to 33 V	12 $\mu$ V/V + 20 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	33 V to 330 V	18 $\mu$ V/V + 150 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	330 V to 1 000 V	18 $\mu$ V/V + 1 500 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	3 $\mu$ V to 200 mV	4.5 $\mu$ V/V + 0.1 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Ramon Rayon 1520-9, Pino Seco/Lote Bravo  
 Cd. Juárez, Chihuahua, México. C.P. 32550  
 Contact Name: Carlos Valenzuela. Phone: 656-617-6617

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Electrical	Equipment to Measure DC Voltage	200 mV to 2 V	3 $\mu$ V/V + 0.4 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	2 V to 20 V	3 $\mu$ V/V + 4 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	20 V to 200 V	4.5 $\mu$ V/V + 40 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	200 V to 1 000 V	4.5 $\mu$ V/V + 0.5 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	1.3 $\mu$ A to 200 $\mu$ A	12 $\mu$ A/A + 0.000 4 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	12 $\mu$ A to 2 mA	12 $\mu$ A/A + 0.004 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	2 mA to 20 mA	13 $\mu$ A/A + 0.04 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	20 mA to 200 mA	36 $\mu$ A/A + 0.8 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	200 A to 2 A	170 $\mu$ A/A + 16 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	2 A to 20 A	380 A/A + 0.4 mA	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Current	0.2 $\mu$ A to 330 $\mu$ A	150 $\mu$ A/A + 0.02 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Current	0.33 mA to 3.3 mA	100 $\mu$ A/A + 0.05 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Measure DC Current	3.3 mA to 33 mA	100 $\mu$ A/A + 0.25 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Current	33 mA to 330 mA	100 $\mu$ A/A + 2.5 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Current	0.33 A to 1.1 A	200 $\mu$ A/A + 40 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Current	1.1 A to 3 A	380 $\mu$ A/A + 40 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Current	3 A to 11 A	500 $\mu$ A/A + 500 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Current	11 A to 20.5 A	1 000 $\mu$ A/A + 750 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Current	11 A to 1 000 A	1.2 mA/A	Fluke 5520A/SC600 Fluke 5500A/Coil	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 65 Hz to 440 Hz)	11 A to 1 000 A (W/Coil)	0.25 % of reading	Fluke 5520A/SC600 Fluke 5500A/Coil	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	1 $\Omega$ to 11 $\Omega$	40 $\mu$ $\Omega$ / $\Omega$ + 6 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	11 $\Omega$ to 33 $\Omega$	30 $\mu$ $\Omega$ / $\Omega$ + 6.5 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	33 $\Omega$ to 110 $\Omega$	28 $\mu$ $\Omega$ / $\Omega$ + 6.4 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	110 $\Omega$ to 330 $\Omega$	28 $\mu$ $\Omega$ / $\Omega$ + 7 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Measure Resistance	330 $\Omega$ to 1.1 k $\Omega$	28 $\mu\Omega/\Omega$ + 7 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 k $\Omega$ to 3.3 k $\Omega$	28 $\mu\Omega/\Omega$ + 25 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	3.3 k $\Omega$ to 11 k $\Omega$	28 $\mu\Omega/\Omega$ 25 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	11 k $\Omega$ to 33 k $\Omega$	28 $\mu\Omega/\Omega$ + 205 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	33 k $\Omega$ to 110 k $\Omega$	28 $\mu\Omega/\Omega$ + 205 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	110 k $\Omega$ to 330 k $\Omega$	32 $\mu\Omega/\Omega$ + 2 $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	0.33 M $\Omega$ to 1.1 M $\Omega$	32 $\mu\Omega/\Omega$ + 2 $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 M $\Omega$ to 3.3 M $\Omega$	60 $\mu\Omega/\Omega$ + 30 $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	3.3 M $\Omega$ to 11 M $\Omega$	130 $\mu\Omega/\Omega$ + 50 $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	11 M $\Omega$ to 33 M $\Omega$	250 $\mu\Omega/\Omega$ + 2.5 k $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	33 M $\Omega$ to 110 M $\Omega$	500 $\mu\Omega/\Omega$ + 3 k $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	0.11 G $\Omega$ o 1.1 G $\Omega$	15 000 $\mu\Omega/\Omega$ + 500 k $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Measure Resistance	1 $\Omega$ to 11 $\Omega$	40 $\mu\Omega/\Omega$ + 6 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	11 $\Omega$ to 33 $\Omega$	30 $\mu\Omega/\Omega$ + 6.5 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	33 $\Omega$ to 110 $\Omega$	28 $\mu\Omega/\Omega$ + 6.4 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	110 $\Omega$ to 330 $\Omega$	28 $\mu\Omega/\Omega$ + 7 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	330 $\Omega$ to 1.1 k $\Omega$	28 $\mu\Omega/\Omega$ + 7 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 k $\Omega$ to 3.3 k $\Omega$	28 $\mu\Omega/\Omega$ + 25 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	3.3 k $\Omega$ to 11 k $\Omega$	28 $\mu\Omega/\Omega$ 25 m $\Omega$	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	110 $\mu\Omega$ to 2 $\Omega$	15 $\mu\Omega/\Omega$ + 4 $\mu\Omega$	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	2 $\Omega$ to 20 $\Omega$	9 $\mu\Omega/\Omega$ + 14 $\mu\Omega$	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	20 $\Omega$ to 200 $\Omega$	7.5 $\mu\Omega/\Omega$ + 500 $\mu\Omega$	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	200 $\Omega$ to 2 k $\Omega$	7.5 $\mu\Omega/\Omega$ + 5 000 $\mu\Omega$	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	2 k $\Omega$ to 20 k $\Omega$	7.5 $\mu\Omega/\Omega$ + 50 000 $\mu\Omega$	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Measure Resistance	20 k $\Omega$ to 200 k $\Omega$	7.5 $\mu\Omega/\Omega$ + 500 000 $\mu\Omega$	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	200 k $\Omega$ to 2 M $\Omega$	8.5 $\mu\Omega/\Omega$ + 1 $\Omega$	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	2 M $\Omega$ to 20 M $\Omega$	15 $\mu\Omega/\Omega$ + 100 $\Omega$	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	20 M $\Omega$ to 200 M $\Omega$	60 $\mu\Omega/\Omega$ + 10 k $\Omega$	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	200 M $\Omega$ to 2 G $\Omega$	525 $\mu\Omega/\Omega$ + 1 M $\Omega$	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	110 $\mu\Omega$ to 2 $\Omega$	15 $\mu\Omega/\Omega$ + 4 $\mu\Omega$	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (Capacitance Meter) (@ 10 Hz to 10 kHz)	0.19 nF to 1.099 9 nF	5 000 $\mu\text{f}/\text{f}$ + 0.01 nF	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (Capacitance Meter) (@ 10 Hz to 3 kHz)	1.1 nF to 3.299 9 nF	5 000 $\mu\text{f}/\text{f}$ + 0.01 nF	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (Capacitance Meter) (@ 10 Hz to 1 kHz)	3.3 nF to 109.999 nF	2 500 $\mu\text{f}/\text{f}$ + 0.1 nF	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Measure Capacitance (Capacitance Meter) (@ 10 Hz to 1 kHz)	110 nF to 329.999 nF	2 500 $\mu$ f/f + 0.3 nF	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.3 $\mu$ A to 0.33 mA	1 250 $\mu$ A/A + 0.1 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 mA to 3.3 mA	1 000 $\mu$ A/A + 0.15 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	3.3 mA to 33 mA	400 $\mu$ A/A + 2 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	33 mA to 330 mA	400 $\mu$ A/A + 20 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	330 mA to 1.1 A	500 $\mu$ A/A + 100 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	1.1 A to 3 A	600 $\mu$ A/A + 100 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	3 A to 11 A	1 000 $\mu$ A/A + 2 000 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	11 A to 20.5 A	1 500 $\mu$ A/A + 5 000 $\mu$ A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	11 A to 330 A (W / Coil)	5 mA/A + 0.5 A	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Verification of Capacitance (Fixed Values)	1 pF	3.6 pF	HP16380A Standard Air Capacitor Set to Measure Capacitance through Direct Method	CENAM Technical Guide SOP 7.2-04	F1, F2, F3	F, O
Electrical	Verification of Capacitance (Fixed Values)	10 pF	10 pF	HP16380A Standard Air Capacitor Set to Measure Capacitance through Direct Method	CENAM Technical Guide SOP 7.2-04	F1, F2, F3	F, O
Electrical	Verification of Capacitance (Fixed Values)	100 pF	100 pF	HP16380A Standard Air Capacitor Set to Measure Capacitance through Direct Method	CENAM Technical Guide SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Verification of Capacitance (Fixed Values)	1 000 pF	2.9 pF	HP16380A Standard Air Capacitor Set to Measure Capacitance through Direct Method	CENAM Technical Guide SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@1 Hz to 10 Hz)	0.35 $\mu$ A to 200 $\mu$ A	475 $\mu$ A/A + 0.02 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 10 Hz to 10 kHz)	0.35 $\mu$ A to 200 $\mu$ A	475 $\mu$ A/A + 0.02 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 10 kHz to 30 kHz)	0.45 $\mu$ A to 200 $\mu$ A	650 $\mu$ A/A + 0.02 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 30 kHz to 100 kHz)	2.5 $\mu$ A to 200 $\mu$ A	4 000 $\mu$ A/A + 0.02 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@1 Hz to 10 Hz)	200 $\mu$ A to 2 mA	290 $\mu$ A/A + 0.2 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 10 Hz to 10 kHz)	200 $\mu$ A to 2 mA	280 $\mu$ A/A + 0.2 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 10 kHz to 30 kHz)	200 $\mu$ A to 2 mA	650 $\mu$ A/A + 0.2 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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 Cd. Juárez, Chihuahua, México. C.P. 32550  
 Contact Name: Carlos Valenzuela. Phone: 656-617-6617

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Electrical	Equipment Output AC Current (@ 30 kHz to 100 kHz)	200 $\mu$ A to 2 mA	4 000 $\mu$ A/A + 0.2 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@1 Hz to 10 Hz)	2 mA to 20 mA	290 $\mu$ A/A + 2 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 10 Hz to 10 kHz)	2 mA to 20 mA	280 $\mu$ A/A + 2 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 10 kHz to 30 kHz)	2 mA to 20 mA	650 $\mu$ A/A + 2 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 30 kHz to 100 kHz)	2 mA to 20 mA	4 000 $\mu$ A/A + 2 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 1 Hz to 10 Hz)	20 mA to 200 mA	290 $\mu$ A/A + 20 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 10 Hz to 10 kHz)	20 mA to 200 mA	250 $\mu$ A/A + 20 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 10 kHz to 30 kHz)	20 mA to 200 mA	600 $\mu$ A/A + 20 $\mu$ A	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment Output AC Current (@ 10 Hz to 2 kHz)	200 mA to 2 A	600 $\mu$ A/A + 0.2 mA	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 2 kHz to 10 kHz)	200 mA to 2 A	710 $\mu$ A/A + 0.2 mA	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 10 kHz to 30 kHz)	200 mA to 2 A	3 000 $\mu$ A/A + 0.2 mA	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 10 Hz to 2 kHz)	2 A to 20 A	800 $\mu$ A/A + 2 mA	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment Output AC Current (@ 2 kHz to 10 kHz)	2 A to 20 A	2 500 $\mu$ A/A + 2 mA	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC/DC High Voltage	1 kV to 6 kV	12 mV/V	Fluke 80 K-06	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC High Voltage	1 kV to 10 kV	3 mV/V + 5 V DC	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC High Voltage (@ 50 Hz to 60 Hz)	1 kV to 15 kV	5 mV/V + 5 V DC	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Oscilloscopes (@ 50 kHz Reference)	5 mVpp to 5.5 Vpp	20 000 $\mu$ V/V + 300 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-7 Euramet-cg-15 SOP 7.2-62	F1, F2, F3	F, O



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Electrical	Equipment to Measure AC Voltage <del>Current</del> for Oscilloscopes (50 kHz to 100 MHz) (Relative to 50 kHz Reference)	5 mV to 5 V	35 000 $\mu$ V/V + 100 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-7 SOP 7.2-62	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage for Oscilloscopes (100 MHz to 300 MHz) (Relative to 50 kHz Reference)	5 mV to 5 V	40 000 $\mu$ V/V + 100 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-7 SOP 7.2-62	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage for Oscilloscopes (300 MHz to 600 MHz) (Relative to 50 kHz Reference)	5 mV to 5 V	60 000 $\mu$ V/V + 100 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-7 SOP 7.2-62	F1, F2, F3	F, O
Electrical	Square Wave DC Signal for Oscilloscopes	1 mV to 6.6 Vp-p (50 $\Omega$ )	0.05 % reading	Fluke 5520A/SC600	Euramet-cg-7 SOP 7.2-62	F1, F2, F3	F, O
Electrical	Square Wave DC Signal for Oscilloscopes	1 mV to 130 V p-p (1 M $\Omega$ )	0.05 % reading	Fluke 5520A/SC600	Euramet-cg-7 SOP 7.2-62	F1, F2, F3	F, O
Electrical	Time Marker Measure Into (50 $\Omega$ )	5 s to 50 ms	5 ms/s	Fluke 5520A/SC600	Euramet-cg-7 SOP 7.2-62	F1, F2, F3	F, O
Electrical	Time Marker Measure Into (50 $\Omega$ )	20 ms to 100 ns	2.5 $\mu$ s/s	Fluke 5520A/SC600	Euramet-cg-7 SOP 7.2-62	F1, F2, F3	F, O



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Electrical	Time Marker Measure Into (50 $\Omega$ )	50 ns to 20 ns	2.5 $\mu$ s/s	Fluke 5520A/SC600	Euramet-cg-7 SOP 7.2-62	F1, F2, F3	F, O
Electrical	Time Marker Measure Into (50 $\Omega$ )	10 ns	25 ps	Fluke 5520A/SC600	Euramet-cg-7 SOP 7.2-62	F1, F2, F3	F, O
Electrical	Time Marker Measure Into (50 $\Omega$ )	5 ns to 2 ns	2.5 $\mu$ s/s	Fluke 5520A/SC600	Euramet-cg-7 SOP 7.2-62	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	1 mV to 33 mV	800 $\mu$ V/V + 6 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	1 mV to 33 mV	150 $\mu$ V/V + 6 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	1 mV to 33 mV	200 $\mu$ V/V + 6 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	1 mV to 33 mV	1 000 $\mu$ V/V + 6 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	1 mV to 33 mV	3 500 $\mu$ V/V + 12 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	1 mV to 33 mV	8 000 $\mu$ V/V + 50 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 330 mV	300 $\mu$ V/V + 8 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	33 mV to 330 mV	145 $\mu$ V/V + 8 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 330 mV	160 $\mu$ V/V + 8 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 330 mV	350 $\mu$ V/V + 8 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 330 mV	800 $\mu$ V/V + 32 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 330 mV	2 000 $\mu$ V/V + 70 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	0.33 V to 3.3 V	300 $\mu$ V/V + 50 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	0.33 V to 3.3 V	150 $\mu$ V/V + 60 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	0.33 V to 3.3 V	190 $\mu$ V/V + 60 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.3 V	300 $\mu$ V/V + 50 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.3 V	700 $\mu$ V/V + 125 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.3 V	2 400 $\mu$ V/V + 600 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 33 V	300 $\mu$ V/V + 650 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	3.3 V to 33 V	150 $\mu$ V/V + 600 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 33 V	240 $\mu$ V/V + 600 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	350 $\mu$ V/V + 600 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 33 V	900 $\mu$ V/V + 1 600 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	33 V to 330 V	190 $\mu$ V/V + 2 000 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 10 kHz)	33 V to 330 V	200 $\mu$ V/V + 6 000 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 V to 330 V	250 $\mu$ V/V + 6 000 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 V to 330 V	300 $\mu$ V/V + 6 000 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 V to 330 V	2 000 $\mu$ V/V + 50 000 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	330 V to 1 020 V	300 $\mu$ V/V + 10 000 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz)	330 V to 1 020 V	250 $\mu$ V/V + 10 000 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 5 kHz to 10 kHz)	330 V to 1 020 V	300 $\mu$ V/V + 10 000 $\mu$ V	Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	140 $\mu$ V to 200 mV	160 $\mu$ V/V + 14 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	120 $\mu$ V to 200 mV	130 $\mu$ V/V + 4 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 40 Hz to 100 Hz)	80 $\mu$ V to 200 mV	110 $\mu$ V/V + 4 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 Hz to 2 kHz)	70 $\mu$ V to 200 mV	105 $\mu$ V/V + 2 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 2 kHz to 10 kHz)	75 $\mu$ V to 200 mV	105 $\mu$ V/V + 4 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	210 $\mu$ V to 200 mV	305 $\mu$ V/V + 8 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	500 $\mu$ V to 200 mV	705 $\mu$ V/V + 20 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	200 mV to 2 V	140 $\mu$ V/V + 1 200 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	200 mV to 2 V	105 $\mu$ V/V + 20 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 100 Hz)	200 mV to 2 V	85 $\mu$ V/V + 20 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 100 Hz to 2 kHz)	200 mV to 2 V	65 $\mu$ V/V + 20 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 2 kHz to 10 kHz)	200 mV to 2 V	85 $\mu$ V/V + 20 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	200 mV to 2 V	205 $\mu$ V/V + 40 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	200 mV to 2 V	505 $\mu$ V/V + 200 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	200 mV to 2 V	3 000 $\mu$ V/V + 2 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	200 mV to 2 V	1 000 $\mu$ V/V + 20 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	2 V to 20 V	140 $\mu$ V/V + 1 200 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	2 V to 20 V	105 $\mu$ V/V + 200 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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## Metrologia Aplicada y Servicios S. de R.L. de C.V.

Ramon Rayon 1520-9, Pino Seco/Lote Bravo  
 Cd. Juárez, Chihuahua, México. C.P. 32550  
 Contact Name: Carlos Valenzuela. Phone: 656-617-6617

*Accreditation is granted to the facility to perform the following conformity assessment activities:*

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Electrical	Equipment to Output AC Voltage (@ 40 Hz to 100 Hz)	2 V to 20 V	85 $\mu$ V/V + 200 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 Hz to 2 kHz)	2 V to 20 V	65 $\mu$ V/V + 200 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 2 kHz to 10 kHz)	2 V to 20 V	85 $\mu$ V/V + 200 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	2 V to 20 V	205 $\mu$ V/V + 400 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	2 V to 20 V	505 $\mu$ V/V + 2 000 $\mu$ V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	2 V to 20 V	3 000 $\mu$ V/V + 20 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	2 V to 20 V	1 000 $\mu$ V/V + 200 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	20 V to 200 V	140 $\mu$ V/V + 12 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	20 V to 200 V	105 $\mu$ V/V + 2 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 100 Hz)	20 V to 200 V	85 $\mu$ V/V + 2 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 Hz to 2 kHz)	20 V to 200 V	65 $\mu$ V/V + 2 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 2 kHz to 10 kHz)	20 V to 200 V	85 $\mu$ V/V + 2 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	20 V to 200 V	205 $\mu$ V/V + 4 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	20 V to 200 V	505 $\mu$ V/V + 20 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	20 V to 200 V	3 000 $\mu$ V/V + 200 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	20 V to 200 V	1 000 $\mu$ V/V + 2 V	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	200 V to 1 000 V	140 $\mu$ V/V + 70 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	200 V to 1 000 V	110 $\mu$ V/V + 20 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 10 kHz)	200 V to 1 000 V	95 $\mu$ V/V + 20 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	200 V to 1 000 V	205 $\mu$ V/V + 40 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	200 V to 1 000 V	510 $\mu$ V/V + 200 mV	Fluke 8508A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Low Resistance	100 m $\Omega$ to 4.99 $\Omega$	3 000 $\mu\Omega/\Omega$ + 25 m $\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Low Resistance	5 $\Omega$ to 29.9 $\Omega$	2 000 $\mu\Omega/\Omega$ + 25 m $\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Low Resistance	30 $\Omega$ to 199.9 $\Omega$	2 000 $\mu\Omega/\Omega$ + 25 m $\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Low Resistance	200 $\Omega$ to 499 $\Omega$	2 000 $\mu\Omega/\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Low Resistance	500 $\Omega$ to 1.999 k $\Omega$	2 000 $\mu\Omega/\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Measure Low Resistance	2 k $\Omega$ to 4.99 k $\Omega$	2 000 $\mu\Omega/\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Low Resistance	5 k $\Omega$ to 10 k $\Omega$	2 000 $\mu\Omega/\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Low Resistance	100 k $\Omega$ to 199.99 k $\Omega$	2 000 $\mu\Omega/\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Low Resistance	200 k $\Omega$ to 999.9 M $\Omega$	2 000 $\mu\Omega/\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Low Resistance	1 M $\Omega$ to 9.999 M $\Omega$	3 000 $\mu\Omega/\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Low Resistance	10 M $\Omega$ to 99.99 M $\Omega$	5 000 $\mu\Omega/\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Low Resistance	100 M $\Omega$ to 999.9 M $\Omega$	10 000 $\mu\Omega/\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure Low Resistance	1 G $\Omega$ to 10 G $\Omega$	30 000 $\mu\Omega/\Omega$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 400 Hz)	3 V to 29.99 V	1 000 $\mu\text{V}/\text{V} + 9 \text{ mV}$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 400 Hz)	30 V to 99.99 V	1 000 $\mu\text{V}/\text{V} + 30 \text{ mV}$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 400 Hz)	100 V to 299.9 V	1 000 $\mu\text{V}/\text{V} + 90 \text{ mV}$	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 400 Hz)	300 V to 600 V	1 000 $\mu$ V/V + 180 mV	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	3 V to 29.99 V	1 000 $\mu$ V/V + 9 mV	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	30 V to 149.9 V	1 000 $\mu$ V/V + 45 mV	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	150 V to 600 V	1 000 $\mu$ V/V + 180 mV	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 40 Hz to 400 Hz)	0.1 V to 10 V	1 500 $\mu$ V/V + 5 mV	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 40 Hz to 400 Hz)	10 V to 100 V	2 000 $\mu$ V/V + 50 mV	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 40 Hz to 400 Hz)	100 V to 1 100 V	2 000 $\mu$ V/V + 550 mV	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC/DC Current (@ 20 Hz to 400 Hz)	5 mA to 300 mA	1 500 $\mu$ A/A + 0.15 mA	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Measure AC/DC Current (20 Hz to 400 Hz)	300 mA to 3A	1 500 $\mu$ A/A + 1.5 mA	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Measure AC/DC Current (20 Hz to 400 Hz)	3A to 30 A	1 500 $\mu$ A/A + 15 mA	Fluke 5320A	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type B	600 °C to 800 °C	0.44 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type B	800 °C to 1 000 °C	0.34 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type B	1 000 °C to 1 050 °C	0.3 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type B	1 050 °C to 1 820 °C	0.33 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type C	0 °C to 150 °C	0.23 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type C	150 °C to 650 °C	0.19 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type C	650 °C to 1 000 °C	0.23 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type C	1 000 °C to 1 800 °C	0.38 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type C	1 800 °C to 2 316 °C	0.63 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	-196 °C to 100 °C	0.38 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	-100 °C to -25 °C	0.12 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	-25 °C to 350 °C	0.1 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	350 °C to 650 °C	0.12 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	650 °C to 1 000 °C	0.16 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	-100 °C to -30 °C	0.12 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	-30 °C to 150 °C	0.1 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	150 °C to 760 °C	0.13 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	760 °C to 1 200 °C	0.18 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	-100 °C to -25 °C	0.14 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	-25 °C to 120 °C	0.12 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	120 °C to 1 000 °C	0.19 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type E	1 000 °C to 1 372 °C	0.3 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type L	-196 °C to -100 °C	0.37 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type L	-100 °C to 800 °C	0.26 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ( $\pm$ ) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type L	800 °C to 900 °C	0.17 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type N	-196 °C to -100 °C	0.3 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type N	-100 °C to -25 °C	0.17 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type N	-25 °C to 120 °C	0.15 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type N	120 °C to 410 °C	0.14 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type N	410 °C to 1 300 °C	0.21 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type R	0 °C to 250 °C	0.48 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type R	250 °C to 400 °C	0.28 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type R	400 °C to 1 000 °C	0.26 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type R	1 000 °C to 1 767 °C	0.3 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type S	0 °C to 250 °C	0.47 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type S	250 °C to 1 000 °C	0.3 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type S	1 000 °C to 1 400 °C	0.28 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type S	1 400 °C to 1 767 °C	0.34 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type T	-196 °C to -150 °C	0.63 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type T	-150 °C to 0 °C	0.24 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type T	0 °C to 120 °C	0.16 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type T	120 °C to 400 °C	0.14 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type U	-196 °C to 0 °C	0.56 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type U	0 °C to 600 °C	0.27 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type U	0 °C to 100 °C	0.07 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type U	100 °C to 300 °C	0.09 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type U	300 °C to 400 °C	0.1 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type U	400 °C to 630 °C	0.12 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type U	630 °C to 800 °C	0.23 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3926, 100 $\Omega$	-196 °C to -80 °C	0.05 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3926, 100 $\Omega$	-80 °C to 0 °C	0.05 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3926, 100 $\Omega$	0 °C to 100 °C	0.07 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3926, 100 $\Omega$	100 °C to 300 °C	0.09 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3926, 100 $\Omega$	300 °C to 400 °C	0.1 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3926, 100 $\Omega$	400 °C to 630 °C	0.12 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3916, 100 $\Omega$	-196 °C to -190 °C	0.25 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3916, 100 $\Omega$	-190 °C to -80 °C	0.04 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3916, 100 $\Omega$	-80 °C to 0 °C	0.05 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3916, 100 $\Omega$	0 °C to 100 °C	0.06 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3916, 100 $\Omega$	100 °C to 260 °C	0.07 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3916, 100 $\Omega$	260 °C to 300 °C	0.12 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3916, 100 $\Omega$	300 °C to 400 °C	0.13 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3916, 100 $\Omega$	400 °C to 600 °C	0.14 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 3916, 100 $\Omega$	600 °C to 630 °C	0.16 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 500 $\Omega$	-80 °C to 0 °C	0.05 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 500 $\Omega$	0 °C to 100 °C	0.05 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 500 $\Omega$	100 °C to 260 °C	0.06 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 500 $\Omega$	260 °C to 300 °C	0.08 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 500 $\Omega$	300 °C to 400 °C	0.08 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 500 $\Omega$	400 °C to 600 °C	0.09 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 500 $\Omega$	600 °C to 630 °C	0.11 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 1 000 $\Omega$	-196 °C to -80 °C	0.03 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 1 000 $\Omega$	-80 °C to 0 °C	0.03 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 1 000 $\Omega$	0 °C to 100 °C	0.04 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 1 000 $\Omega$	100 °C to 260 °C	0.05 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 1 000 $\Omega$	260 °C to 300 °C	0.06 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Type Pt 385, 1 000 $\Omega$	300 °C to 400 °C	0.07 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Pt Ni 385, 120 $\Omega$ (Ni 120)	-80 °C to 0 °C	0.08 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Pt Ni 385, 120 $\Omega$ (Ni 120)	0 °C to 100 °C	0.08 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Pt Ni 385, 120 $\Omega$ (Ni 120)	100 °C to 260 °C	0.14 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with RTD Cu 427, 10 $\Omega$	-100 °C to 260 °C	0.1 °C	Electrical Simulation of RTD Output Fluke 5520A/SC600	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Equipment to Output DC Voltage	Up to 330 mV	16 $\mu$ V/V + 780 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Voltage	330 mV to 3.3 V	8.5 $\mu$ V/V + 1.6 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Voltage	3.3 V to 33 V	9.3 $\mu$ V/V + 16 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Voltage	33 V to 330 V	14 $\mu$ V/V + 120 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Voltage	100 V to 1.02 kV	14 $\mu$ V/V + 1.2 mV	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	Up to 320 $\mu$ A	0.038 $\mu$ A/A + 16 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output DC Current	320 $\mu$ A to 3.2 mA	78 $\mu$ A/A + 39 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	3.2 mA to 32 mA	78 $\mu$ A/A + 190 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	32 mA to 320 mA	78 $\mu$ A/A + 1.9 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	320 mA to 1.1 A	150 $\mu$ A/A + 31 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	1.1 A to 2.9 A	290 $\mu$ A/A + 31 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	2.9 A to 11A	390 $\mu$ A/A + 390 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output DC Current	11 A to 20.5 A	780 $\mu$ A/A + 580 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	0 $\Omega$ to 11 $\Omega$	31 $\mu\Omega/\Omega$ + 78 $\mu\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	11 $\Omega$ to 33 $\Omega$	23 $\mu\Omega/\Omega$ + 1.2 m $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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## Metrologia Aplicada y Servicios S. de R.L. de C.V.

Ramon Rayon 1520-9, Pino Seco/Lote Bravo  
 Cd. Juárez, Chihuahua, México. C.P. 32550  
 Contact Name: Carlos Valenzuela. Phone: 656-617-6617

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Electrical	Equipment to Output Resistance	33 $\Omega$ to 110 $\Omega$	22 $\mu\Omega/\Omega$ + 1.1 m $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	110 $\Omega$ to 330 $\Omega$	22 $\mu\Omega/\Omega$ + 1.6 m $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	330 $\Omega$ to 1.1 k $\Omega$	22 $\mu\Omega/\Omega$ + 1.6 m $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	1.1 k $\Omega$ to 3.3 k $\Omega$	22 $\mu\Omega/\Omega$ + 16 m $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	3.3 k $\Omega$ to 11 k $\Omega$	22 $\mu\Omega/\Omega$ + 16 m $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	11 k $\Omega$ to 33 k $\Omega$	22 $\mu\Omega/\Omega$ + 160 m $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	33 k $\Omega$ to 110 k $\Omega$	22 $\mu\Omega/\Omega$ + 160 m $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	110 k $\Omega$ to 330 k $\Omega$	25 $\mu\Omega/\Omega$ + 1.6 $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	330 k $\Omega$ to 1.1 M $\Omega$	25 $\mu\Omega/\Omega$ + 1.6 $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output Resistance	1.1 M $\Omega$ to 3.3 M $\Omega$	47 $\mu\Omega/\Omega$ + 23 $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	3.3 M $\Omega$ to 11 M $\Omega$	100 $\mu\Omega/\Omega$ + 39 $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	11 k $\Omega$ to 33 k $\Omega$	190 $\mu\Omega/\Omega$ + 1.9 k $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	33 k $\Omega$ to 110 k $\Omega$	390 $\mu\Omega/\Omega$ + 2.3 k $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	110 k $\Omega$ to 330 k $\Omega$	230 $\mu\Omega/\Omega$ + 78 k $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	330 k $\Omega$ to 1 100 M $\Omega$	1.2 $\mu\Omega/\Omega$ + 390 k $\Omega$	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 45 Hz)	1 mV to 33 mV	0.062 % of reading + 4.7 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 kHz to 10 kHz)	1 mV to 33 mV	0.012 % of reading + 4.7 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 20 kHz)	1 mV to 33 mV	0.016 % of reading + 4.7 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	1 mV to 33 mV	0.078 % of reading + 4.7 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	1 mV to 33 mV	2.7 % of reading + 9.3 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 500 kHz)	1 mV to 33 mV	0.62 % of reading + 39 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 330 mV	0.023 % of reading + 6.2 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 kHz to 10 kHz)	33 mV to 330 mV	0.011 % of reading + 6.2 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 330 mV	0.012 % of reading + 6.2 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 330 mV	0.027 % of reading + 6.2 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 330 mV	0.062 % of reading + 25 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 330 mV	0.15 % of reading + 54 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 10 Hz to 45 Hz)	0.33 V to 3.3 V	0.023 % of reading + 39 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 kHz to 10 kHz)	0.33 V to 3.3 V	0.011 % of reading + 47 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 20 kHz)	0.33 V to 3.3 V	0.015 % of reading + 47 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.3 V	0.023 % of reading + 39 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.3 V	0.054 % of reading + 97 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.3 V	0.18 % of reading + 470 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 33 V	0.023 % of reading + 500 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 kHz to 10 kHz)	3.3 V to 33 V	0.012 % of reading + 470 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 33 V	0.019 % of reading + 470 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	0.027 % of reading + 470 $\mu$ V	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 33 V	0.07 % of reading + 1.2 mV	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 45 Hz)	33 V to 330 V	0.015 % of reading + 1.6 mV	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 kHz to 10 kHz)	33 V to 330 V	0.016 % of reading + 4.7 mV	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 20 kHz)	33 V to 330 V	0.019 % of reading + 4.7 mV	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	33 V to 330 V	0.023 % of reading + 4.7 mV	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	33 V to 330 V	0.16 % of reading + 39 mV	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 kHz to 1 kHz)	330 V to 1 020 V	0.023 % of reading + 7.8 mV	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 5 kHz)	330 V to 1 020 V	0.019 % of reading + 7.8 mV	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 5 kHz to 10 kHz)	330 V to 1 020 V	0.023 % of reading + 7.8 mV	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 20 Hz)	29 $\mu$ A to 330 $\mu$ A	0.16 % of reading + 78 nA	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 Hz to 45 Hz)	29 $\mu$ A to 330 $\mu$ A	0.12 % of reading + 78 nA	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 1 kHz)	29 $\mu$ A to 330 $\mu$ A	0.1 % of reading + 78 nA	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 5 kHz)	29 $\mu$ A to 330 $\mu$ A	0.23 % of reading + 0.12 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 5 kHz to 10 kHz)	29 $\mu$ A to 330 $\mu$ A	0.62 % of reading + 0.16 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	29 $\mu$ A to 330 $\mu$ A	1.3 % of reading + 0.31 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 20 Hz)	0.33 mA to 3.3 mA	0.16 % of reading + 0.12 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 Hz to 45 Hz)	0.33 mA to 3.3 mA	0.1 % of reading + 0.12 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 45 Hz to 1 kHz)	0.33 mA to 3.3 mA	0.075 % of reading + 0.12 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 5 kHz)	0.33 mA to 3.3 mA	0.16 % of reading + 0.16 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 5 kHz to 10 kHz)	0.33 mA to 3.3 mA	0.39 % of reading + 0.23 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	0.33 mA to 3.3 mA	0.77 % of reading + 0.47 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 20 Hz)	3.3 mA to 33 mA	0.14 % of reading + 1.6 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 Hz to 45 Hz)	3.3 mA to 33 mA	0.07 % of reading + 1.6 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 1 kHz)	3.3 mA to 33 mA	0.03 % of reading + 1.6 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 5 kHz)	3.3 mA to 33 mA	0.06 % of reading + 1.6 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 5 kHz to 10 kHz)	3.3 mA to 33 mA	0.16 % of reading + 2.3 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	3.3 mA to 33 mA	0.31 % of reading + 3.1 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 20 Hz)	33 mA to 330 mA	0.14 % of reading + 16 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 Hz to 45 Hz)	33 mA to 330 mA	0.07 % of reading + 16 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 1 kHz)	33 mA to 330 mA	0.03 % of reading + 16 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 5 kHz)	33 mA to 330 mA	0.08 % of reading + 39 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 5 kHz to 10 kHz)	33 mA to 330 mA	0.16 % of reading + 78 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	33 mA to 330 mA	0.31 % of reading + 160 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 20 Hz)	0.33 A to 1.1 A	0.14 % of reading + 78 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 1 kHz)	0.33 A to 1.1 A	0.039 % of reading + 78 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Ramon Rayon 1520-9, Pino Seco/Lote Bravo  
 Cd. Juárez, Chihuahua, México. C.P. 32550  
 Contact Name: Carlos Valenzuela. Phone: 656-617-6617

*Accreditation is granted to the facility to perform the following conformity assessment activities:*

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ( $\pm$ ) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 5 kHz)	0.33 A to 1.1 A	0.47 % of reading + 780 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 5 kHz to 10 kHz)	0.33 A to 1.1 A	1.9 % of reading + 3.9 mA	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 20 Hz)	1.1 A to 3 A	0.14 % of reading + 78 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 1 kHz)	1.1 A to 3 A	0.05 % of reading + 78 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 5 kHz)	1.1 A to 3 A	0.47 % of reading + 780 $\mu$ A	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 5 kHz to 10 kHz)	1.1 A to 3 A	1.9 % of reading + 3.9 mA	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 100 Hz)	3 A to 11 A	0.047 % of reading + 1.5 mA	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 Hz to 1 kHz)	3 A to 11 A	0.078 % of reading + 1.5 mA	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 5 kHz)	3 A to 11 A	2.3 % of reading + 1.5 mA	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 45 Hz to 100 Hz)	11 A to 20.5 A	0.09 % of reading + 3.9 mA	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 Hz to 1 kHz)	11 A to 20.5 A	0.12 % of reading + 3.9 mA	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 5 kHz)	11 A to 20.5 A	2.3 % of reading + 3.9 mA	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	220 pF to 399.9 pF	0.39 % of reading + 7.8 pF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	0.4 nF to 1.1 nF	0.39 % of reading + 7.8 pF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	1.1 nF to 3.3 nF	0.39 % of reading + 7.8 pF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	3.3 nF to 11 nF	0.19 % of reading + 7.8 pF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	11 nF to 33nF	0.19 % of reading + 78 pF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	33 nF to 110 nF	0.19 % of reading + 78 pF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output Capacitance	110 nF to 330 nF	0.19 % of reading + 0.23 nF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	0.33 $\mu$ F to 1.1 $\mu$ F	0.19 % of reading + 0.78 nF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	1.1 $\mu$ F to 3.3 $\mu$ F	0.19 % of reading + 2.3 nF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	3.3 $\mu$ F to 11 $\mu$ F	0.19 % of reading + 7.8 nF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	11 $\mu$ F to 33 $\mu$ F	0.31 % of reading + 23 nF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	33 $\mu$ F to 110 $\mu$ F	0.35 % of reading + 78 nF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	110 $\mu$ F to 330 $\mu$ F	0.35 % of reading + 230 nF	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	0.33 mF to 1.1 mF	0.35 % of reading + 0.78 $\mu$ F	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	1.1 mF to 3.3 mF	0.35 % of reading + 2.3 $\mu$ F	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O



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Electrical	Equipment to Output Capacitance	3.3 mF to 11 mF	0.35 % of reading + 7.8 $\mu$ F	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	11 mF to 33mF	0.35 % of reading + 23 $\mu$ F	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Equipment to Output Capacitance	33 mF to 110 mF	0.85 % of reading + 78 $\mu$ F	Fluke 5522A Multiproduct Calibrator	Euramet-cg-15 SOP 7.2-04	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type J	-210 °C to -100 °C	0.27 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type J	-100 °C to -30 °C	0.16 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type J	-30 °C to 150 °C	0.14 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type J	150 °C to 760 °C	0.17 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type J	760 °C to 1 200 °C	0.23 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type K	-200 °C to -100 °C	0.33 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type K	-100 °C to -25 °C	0.18 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type K	-25 °C to 120 °C	0.16 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type K	120 °C to 1 000 °C	0.26 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type K	1 000 °C to 1 372 °C	0.4 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type T	-250 °C to -150 °C	0.63 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type T	-150 °C to 0 °C	0.24 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type T	0 °C to 120 °C	0.16 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O



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Electrical	Temperature Calibration Indication, and Control Equipment used with Thermocouple Type T	120 °C to 400 °C	0.14 °C	Electrical Simulation of Thermocouple Output Fluke 5522A Multiproduct Calibrator	Euramet-cg-11 SOP 7.2-42	F1, F2, F3	F, O

- The CMC (Calibration and Measurement Capability) is expressed in terms of measurement instrument/aspect being calibrated, range, expanded measurement uncertainty, equipment, and method/procedure. The expanded measurement uncertainty stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the measurement uncertainty included on this scope for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
- The laboratory's range of calibration capability for all disciplines for which it is accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.
- Location of activity:
 

Location Code	Location
F	Conformity assessment activity is performed at the CAB's fixed facility
O	Conformity assessment activity is performed onsite at the CAB's customer location
- Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratory's fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratory's fixed location.
- The term L represents length in inches or millimeters as appropriate to the uncertainty statement.



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6. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.
7. This is the primary site for all quality management system activities.
8. Flex Codes

F0: When no flexibility is identified. There are no changes to items calibrated, characteristics identified or versions of methods except for updating to the most recent version of a standard method after verification.

F1: The laboratory has the capability to introduce a new instrument, quantity, or gauge for an accredited calibration method.

F2: The laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope

F3: The laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope

F4: The laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using the same Calibration Equipment or Reference Standards identified on the scope for the same parameter, component, or analyte identified on the line item of the scope.