PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization of:

Twilight, S.A. de C.V.

Alfonso Reyes # 2612, 704, Col. Del Paseo Residencial, Monterrey
Monterrey, Nuevo León, México. C.P. 64920

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, Optical, Thermodynamic, Mechanical, Mass Force and Weighing Device, Acoustic, Time and Frequency, Chemical 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:	*Issue Date:*	*Expiration Date:*
March 12, 2015	May 03, 2025	June 30, 2027

Accreditation No.:	*Certificate No.:*
83078	L25-352

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.pjlabs.com

Certificate of Accreditation: Supplement

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Alfonso Reyes # 2612, 704, Col. Del Paseo Residencial
Monterrey, Nuevo León, México. C.P. 64920
Contact Name: Josefina Torres Lara Phone: 818-173-4300

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)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	LOCATION OF ACTIVITY
Dimensional	Outside Micrometer	1.27 mm to 203.3 mm	$(2 \times 10^{-4} + 3 \times 10^{-6}L)$ mm	Gauge Blocks Grade 0	IN-TWI-13-03 Internal Process	F
Dimensional	Caliper	1.27 mm to 457.2 mm	$(0.01 + 7 \times 10^{-6}L)$ mm	Gauge Blocks Grade 0	IN-TWI-13-02 Internal Process	F
Dimensional	Height Gauge	1.27 mm to 304.8 mm	0.007 1 mm	Gauge Blocks Grade 0	IN-TWI-13-36 Internal Process	F
Dimensional	Dial Thickness Gauge	0.022 mm to 12.255 mm	0.002 2 mm	Foil Thickness Standards	IN-TWI-13-15 Internal Process	F
Dimensional	Coating Thickness Gauge Ferrous Base	0.022 mm to 12.255 mm	1.2 µm	Foil Thickness Standards	IN-TWI-13-04 Internal Process	F
Dimensional	Coating Thickness Gauge Non-Ferrous Base	0.022 mm to 12.255 mm	1.2 µm	Foil Thickness Standards	IN-TWI-13-04 Internal Process	F
Dimensional	Coating Thickness Gauge RTR	0.023 mm to 12.255 mm	1.6 µm	Foil Thickness Standards	IN-TWI-13-55 Internal Process	F
Dimensional	Ultrasonic Thickness Gauge	1.27 mm to 100 mm	0.014 mm	Block Set Grade 0	IN-TWI-13-35 Internal Process	F
Dimensional	Welding Meter	1.27 mm to 50.8 mm	0.00075 mm	Set Block, Grade 0, Rule, Microscope	IN-TWI-13-27 Internal Process	F
Dimensional	Angle Meter	25° to 180°	0.14°	Angular Set Blocks	IN-TWI-13-27 Internal Process	F
Dimensional	Lenght Meter (Distance Measurement)	0.5 m to 30 m	0.00 16 m	Distance Meter Comparison Brand LEICA Mod. D810	IN-TWI-13-16 Internal Process	F
Dimensional	Ruler	1 mm to 1 000 mm	0.82 mm	Rules, Microscope	IN-TWI-13-42 Internal Process	F
Dimensional	Tapes	30 m Maximun	0.000 82 m	Ruler	IN-TWI-13-41 Internal Process	F

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Dimensional	Surface Profilometer	25.4 µm to 635 µm	1.7 µm	Shims	IN-TWI-13-38 Internal Process	F
Dimensional	Film Thickness Gages	0.001 mm to 25 mm	0.001 2 mm	Micrometer (Res.= 0.000 1 mm)	IN-TWI-13-49 Internal Process	F
Dimensional	Thread Plug Gages Pitch Diameter	0-80 to 4-12	0.001 9 mm	Micrometer (Res.= 0.001 mm)	IN-TWI-13-52 Internal Process	F
Dimensional	Digital Indicator	0.1 mm to 100 mm	0.000 71 mm	Dial Indicator Test Machine	IN-TWI-13-53 Internal Process	F
Dimensional	Dial Indicator	0.1 mm to 100 mm	0.006 7 mm	Dial Indicator Test Machine	IN-TWI-13-53 Internal Process	F
Dimensional	Step Block	0.254 mm to 25.4 mm	0.001 2 mm	Micrometer (Res.= 0.000 1 mm)	IN-TWI-13-66 Internal Process	F
Dimensional	Wet Film Thickness Gauge	10 µm to 3 500 µm	2 µm	Microscope	IN-TWI-13-69 Internal Process	F
Optical	Luxometer	20 lux to 7 000 lux	$(9.71 \times 10^{-3} + 9.55 \times 10^{-3} L)$ lux	Lux Meter Comparison	IN-TWI-13-20 Internal Process	F
Optical	Gloss / Specular Reflectance	Angle of Incline ρ(e): 20º	0.18 GU	Glossmeter	IN-TWI-13-37 Internal Process	F, O
Optical	Gloss / Specular Reflectance	ρ(e): 60º	0.19 GU	Glossmeter	IN-TWI-13-37 Internal Process	F, O
Optical	Gloss / Specular Reflectance	ρ(e): 85º	0.22 GU	Glossmeter	IN-TWI-13-37 Internal Process	F, O
Optical	UV Radiometer	0 mW/cm^2 to 10 mW/cm^2	0.003 6 mW/cm^2	UV Radiometer	IN-TWI-13-60 IN-TWI-13-61 Internal Process	F
Optical	UV Lamp	0 mW/cm^2 to10 mW/cm^2	0.036 mW/cm^2	UV Radiometer	IN-TWI-13-60 IN-TWI-13-61 Internal Process	F

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Optical	Spectrophotometer	CIE L*: 27.6 to 99.02	CIE L*: 0.24	Ceramic Color Standards	IN-TWI-13-63 Internal Process	F
Optical	Spectrophotometer	CIE a*: -35.8 to 54.49	CIE a*: 0.15	Ceramic Color Standards	IN-TWI-13-63 Internal Process	F
Optical	Spectrophotometer	CIE b*: -41.59 to 89.25	CIE b*: 0.13	Ceramic Color Standards	IN-TWI-13-63 Internal Process	F
Optical	Color Meter	CIE L*: 27.6 to 99.02	CIE L*: 0.24	Ceramic Color Standards	IN-TWI-13-37 Internal Process	F
Optical	Color Meter	CIE a*: -35.8 to 54.49	CIE a*: 0.15	Ceramic Color Standards	IN-TWI-13-37 Internal Process	F
Optical	Color Meter	CIE b*: -41.59 to 89.25	CIE b*: 0.13	Ceramic Color Standards	IN-TWI-13-37 Internal Process	F
Optical	X-Ray Densimeter	0.21 D to 4.96 D	0.014 D	Transmission Density Standard	ASTM E1079 IN-TWI-13-62 Internal Process	F
Optical	Refractometer	5.027 % ºBrix to 90.079 % ºBrix	0.041 % ºBrix	Standard Solutions Refractometer Atago RX-5000i-Plus	IN-TWI-13-23 Internal Process	F
Optical	Refractometer	1.340 280 nD to 1.517 476 nD	0.84 x 10-4 nD	Standard Solutions Refractometer Atago RX-5000i-Plus	IN-TWI-13-23 Internal Process	F
Thermodynamic	Pyrometer	50 °C to 1 200 °C	0.41 °C	Black Body Model IR-301	IN-TWI-13-26 Internal Process	F
Thermodynamic	Bimetallic Thermometer	30 °C to 500 °C	0.34 °C	Dry Well Calibrator Fluke 726	IN-TWI-13-43 Internal Process	F
Thermodynamic	Plastometer (Temperature)	30 ºC to 450 ºC	0.39 ºC	Fluke 726 RTD Sensor	IN-TWI-13-68 Internal Process	F

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Thermodynamic	Temperature Measurement Thermocouple Type J	30 °C to 500 °C	0.14 °C	Dry Well Calibrator Fluke 726	IN-TWI-13-05 Internal Process	F
Thermodynamic	Temperature Measurement Thermocouple Type K	30 °C to 500 °C	0.14 °C	Dry Well Calibrator Fluke 726	IN-TWI-13-05 Internal Process	F
Thermodynamic	Temperature Measurement Thermocouple Type T	30 °C to 500 °C	0.14 °C	Dry Well Calibrator Fluke 726	CEM TH-001 IN-TWI-13-05 Internal Process	F
Thermodynamic	Temperature Measurement Thermocouple Type E	30 °C to 500 °C	0.14 °C	Dry Well Calibrator Fluke 726	CEM TH-001 IN-TWI-13-05 Internal Process	F
Thermodynamic	Equipment to Measure Temperature Sensor RTD Pt 100 (385) 2, 3, 4 Wire	30 °C to 500 °C	0.14 °C	Dry Well Calibrator Fluke 726 CEM TH-001	IN-TWI-13-05 Internal Process	F
Thermodynamic	Equipment to Measure Temperature Sensor RTD Pt 500 2, 3, 4 Wire	30 °C to 500 °C	0.16 °C	Dry Well Calibrator Fluke 726 CEM TH-001	IN-TWI-13-05 Internal Process	F
Thermodynamic	Equipment to Measure Temperature Sensor RTD Pt 1 000 2, 3, 4 Wire	30 °C to 500 °C	0.38 °C	Dry Well Calibrator Fluke 726 CEM TH-001	IN-TWI-13-05 Internal Process	F
Thermodynamic	Equipment to Measure Contact Temperature Sensor	30 °C to 150 °C	0.39 °C	Dry Well Calibrator Fluke 726 CEM TH-001	IN-TWI-13-05 Internal Process	F
Thermodynamic	Thermohygrometer Only Humidity	30 % RH to 90 % RH	0.62 % RH	Vaisala Humidity Chamber	IN-TWI-13-01 Internal Process	F
Thermodynamic	Thermohygrometer Only Temperature	-15 °C to 50 °C	0.052 °C	Vaisala Humidity Chamber	IN-TWI-13-01 Internal Process	F

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Mechanical	Indirect Verification of Lebb Hardness Tester HLD	464 HLD to 800 HLD	7.6 HLD	Hardness Block	IN-TWI-13-17 Internal Process	F, O
Mechanical	Accelerometer (@ 15.92 Hz to 10 000 Hz)	1 m/s^2 to 20 m/s^2	0.013 m/s^2	Vibration Gauge (Calibrator) MMF, Mod. VC120 and VC21D	IN-TWI-13-24 Internal Process	F, O
Mechanical	Torque Wrench	0.11 N·m to 0.57 N·m	0.008 5 N·m	Torque Tester Analyzer Model I-80	IN-TWI-13-13 Internal Process	F
Mechanical	Torque Wrench	0.79 N·m to 7.91 N·m	0.001 4 N·m	Torque Tester Analyzer Model I-80	IN-TWI-13-13 Internal Process	F
Mechanical	Torque Wrench	19.66 N·m to 196.59 N·m	0.15 N·m	Torque Tester Analyzer Model DIS-IP200	IN-TWI-13-13 Internal Process	F
Mechanical	Torque Wrench	135.58 N·m to 1 355.82 N·m	0.25 N·m	Torque Tester Analyzer Model BMX 1000F	IN-TWI-13-13 Internal Process	F
Mechanical	Dynamic Viscosity Meters	0.1 Pa·s to 53.36 Pa·s	0.000 4 Pa·s	Cannon Standard Oil	IN-TWI-13-07 Internal Process	F, O
Mechanical	Kinematic Viscosity Ford Cups No. 2, 3, 4, 5	10 mm^2/s to 1 200 mm^2/s	0.25 mm^2/s	Cannon Standard Oil	IN-TWI-13-32 Internal Process	F, O
Mechanical	Kinematic Viscosity Zahn Cups No. 1, 2, 3, 4, 5	5 mm^2/s to 1 840 mm^2/s	0.21 mm^2/s	Cannon Standard Oil	ASTM D4212 IN-TWI-13-31 Internal Process	F, O

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Mechanical	Pressure Gages Pressure Transducers	-96.52 kPa to 0 kPa	0.68 % of reading	Pressure Transducer Pressure Gauge	IN-TWI-13-39 Internal Process	F
Mechanical	Pressure Gages Pressure Transducers	0 kPa to 210 kPa	0.31 % of reading	Pressure Transducer Pressure Gauge	IN-TWI-13-39 Internal Process	F
Mechanical	Pressure Gages Pressure Transducers	689 kPa to 6 895 kPa	0.16 % of reading	Pressure Transducer Pressure Gauge	IN-TWI-13-39 Internal Process	F
Mechanical	Pressure Gages Pressure Transducers	6.896 MPa to 20.684 MPa	0.05 % of reading	Pressure Transducer Pressure Gauge	IN-TWI-13-39 Internal Process	F
Mechanical	Pressure Gages Pressure Transducers	20.685 MPa to 68.947 MPa	0.04 % of reading	Pressure Transducer Pressure Gauge	IN-TWI-13-39 Internal Process	F
Mechanical	Barometer	900 hPa to 1 100 hPa	0.14 hPa	Pressure Transducer and Barometer	IN-TWI-13-59 Internal Process	F
Mechanical	Anemometer	1 m/s to 13 m/s	0.34 m/s	Hot Wire Anemometer Amprobe Comparison	IN-TWI-13-10 Internal Process	F
Mechanical	Density Cup	100 mL	0.001 2 mL	Scale	IN-TWI-13-64 Internal Process	F
Mechanical	Direct Verification of Durometer Hardness Tester (Types A, B, C, D, E, M, O, DO, OO, OOO & OOO-S)	2.46 mm to 25.4 mm	0.001 mm	Video Magnification 150x	IN-TWI-13-39 Internal Process	F
Mechanical	Durometer Hardness Tester (Types A, B, C, D, E, M, O, DO, OO, OOO & OOO-S) (Identor Diameter)	2.46 mm to 25.4 mm	0.001 mm	Video Magnification 150x	IN-TWI-13-39 Internal Process	F

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Mechanical	Durometer Hardness Tester (Types A, B, C, D, E, M, O, DO, OO, OOO & OOO-S) (Identor Tip Diameter)	2.46 mm to 25.4 mm	0.001 mm	Video Magnification 150x	IN-TWI-13-39 Internal Process	F
Mechanical	Durometer Hardness Tester (Types A, B, C, D, E, M, O, DO, OO, OOO & OOO-S) (Identor Tip Radius)	2.46 mm to 25.4 mm	0.001 mm	Video Magnification 150x	IN-TWI-13-39 Internal Process	F
Mechanical	Durometer Hardness Tester (Types A, B, C, D, E, M, O, DO, OO, OOO & OOO-S) (Identor Tip Angle)	2.46 mm to 25.4 mm	0.091°	Video Magnification 150x	IN-TWI-13-39 Internal Process	F
Mechanical	Durometer Hardness Tester (Types A, B, E & O) (Durometer Indentor Spring)	0.55 N to 8.05 N	0.001 7 N	Load Cell	IN-TWI-13-39 Internal Process	F
Mechanical	Durometer Hardness Tester (Types C, D & DO) (Durometer Indentor Spring)	4.445 N to 44.45 N	0.001 7 N	Load Cell	IN-TWI-13-39 Internal Process	F
Mechanical	Durometer Hardness Tester (Types M) (Durometer Indentor Spring)	0.324 N to 0.765 N	0.001 7 N	Load Cell	IN-TWI-13-39 Internal Process	F
Mechanical	Durometer Hardness Tester (Types OO, OOO) (Durometer Indentor Spring)	0.203 N to 1.111 N	0.001 7 N	Load Cell	IN-TWI-13-39 Internal Process	F
Mechanical	Durometer Hardness Tester (Types OOO-S) (Durometer Indentor Spring)	0.167 N to 1.932 N	0.001 7 N	Load Cell	IN-TWI-13-39 Internal Process	F

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Mechanical	Durometer Hardness Tester (Types C) (Durometer Indentor Spring)	0.539 N to 8.379 N	0.001 7 N	Load Cell	IN-TWI-13-39 Internal Process	F
Mass Force and Weighing Device	Analytical Balance	0.001 g to 300 g (Res.= 0.001 g)	$(1.21 \times 10^{-3} + 2 \times 10^{-6}Wt)$ g	Class F1 Weights	IN-TWI-13-06 Internal Process	O
Mass Force and Weighing Device	Balances and Scale	1 g to 500 g (Res.= 0.01 g)	$(1.21 \times 10^{-3} + 1.4 \times 10^{-5}Wt)$ g	Class F1 Weights	IN-TWI-13-06 Internal Process	O
Mass Force and Weighing Device	Balances and Scale	500 g to 2 000 g (Res.= 0.01 g)	$(1.1 \times 10^{-2} + 4 \times 10^{-6}Wt)$ g	Class F1 Weights	IN-TWI-13-06 Internal Process	O
Mass Force and Weighing Device	Balances and Scale	2 000 g to 5 000 g (Res.= 0.1 g)	$(9.79 \times 10^{-2} + 1.9 \times 10^{-5}Wt)$ g	Class F1 Weights	IN-TWI-13-06 Internal Process	O
Mass Force and Weighing Device	Balances and Scale	5 000 g to 20 000 g (Res.= 1 g)	$(1.08 + 3.5 \times 10^{-5}Wt)$ g	Class F1 Weights	IN-TWI-13-06 Internal Process	O
Mass Force and Weighing Device	Balances and Scale	20 000 g to 100 000 g (Res.= 5 g)	$(5.53 + 3.4 \times 10^{-5}Wt)$ g	Class F1 Weights	IN-TWI-13-06 Internal Process	O
Mass Force and Weighing Device	Force Meter-Tension	0.98 N to 9.81 N	0.14 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F
Mass Force and Weighing Device	Force Meter-Tension	9.82 N to 50 N	0.038 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F
Mass Force and Weighing Device	Force Meter-Tension	50.01 N to 444.83 N	0.039 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F
Mass Force and Weighing Device	Force Meter-Tension	444.84 N to 889.65 N	0.028 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F
Mass Force and Weighing Device	Force Meter-Tension	889.7 N to 8 896.5 N	0.056 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F
Mass Force and Weighing Device	Force Meter-Tension	9.81 kN to 98.07 kN	0.3 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F

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Mass Force and Weighing Device	Gage Force Meter (Adhesive)	2.22 kN to 22.24 kN	0.054 % of reading	Load Cell	IN-TWI-13-25 Internal Process	F
Mass Force and Weighing Device	Force Meter-Compression	0.098 N to 0.981 N	1.4 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F
Mass Force and Weighing Device	Force Meter-Compression	0.982 N to 9.81 N	0.14 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F
Mass Force and Weighing Device	Force Meter-Compression	9.82 N to 50 N	0.031 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F
Mass Force and Weighing Device	Force Meter-Compression	50.01 N to 444.83 N	0.034 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F
Mass Force and Weighing Device	Force Meter-Compression	444.84 N to 889.65 N	0.022 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F
Mass Force and Weighing Device	Force Meter-Compression	889.7 N to 8 896.5 N	0.092 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F
Mass Force and Weighing Device	Force Meter-Compression	9.81 kN to 98.07 kN	0.23 % of reading	Load Cell Interface	IN-TWI-13-12 Internal Process	F
Mass Force and Weighing Device	Plastometer (Weights)	325 g to 21 627 g	0.2 g	Class F1 Weights	IN-TWI-13-68 Internal Process	F
Acoustic	Sonometer (F=1 kHz)	94 dB to 114 dB	0.14 dB	Acoustic Calibrator	IN-TWI-13-11 Internal Process	F, O
Acoustic	Sound Calibrator 2 (Fixed Point)	94 dB to 114 dB	0.092 dB	Sound Meter Level 1	IN-TWI-13-47 Internal Process	F
Time and Frequency	Photo Tachometer	6 rad/s to 6 283 rad/s	0.000 71 rad/s	Multifunction Workstation Transmille Calibrator EA015	IN-TWI-13-14 Internal Process	F
Time and Frequency	Contact Tachometer	52.36 rad/s to 366.52 rad/s	0.071 rad/s	Generator RPM (rad/s)	IN-TWI-13-50 Internal Process	F

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Time and Frequency	Chronometer	120 s to 3 600 s	0.48 s	Chronometer, Stopwatch and Timer Calibrations	IN-TWI-13-51 Internal Process	F
Time and Frequency	Plastometer (Cut Time)	120 s to 3 600 s	0.48 s	Chronometer, Stopwath	IN-TWI-13-68 Internal Process	F
Time and Frequency	Equipment to Measure Frequency	1 Hz to 10 MHz	0.001 2 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Time and Frequency	Equipment to Output Frequency	100 Hz to 1 MHz	0.001 2 % of reading	Multimeter Transmille Model 8081	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Chemical	Gas Detector Oxygen (O2)	15 cmol/mol	2.1 % of reading	Gas Standard	IN-TWI-13-22 Internal Process	F
Chemical	Gas Detector Oxygen (O2)	18 cmol/mol	2 % of reading	Gas Standard	IN-TWI-13-22 Internal Process	F
Chemical	Gas Detectors Methane (CH4)	0.05 cmol/mol	2.4 % of reading	Gas Standard	IN-TWI-13-22 Internal Process	F
Chemical	Gas Detectors Methane (CH4)	0.5 cmol/mol	2.4 % of reading	Gas Standard	IN-TWI-13-22 Internal Process	F
Chemical	Gas Detectors Methane (CH4)	2.5 cmol/mol	2.4 % of reading	Gas Standard	IN-TWI-13-22 Internal Process	F
Chemical	Gas Detectors Methane (CH4)	1.45 cmol/mol	2.1 % of reading	Gas Standard	IN-TWI-13-22 Internal Process	F
Chemical	Gas Detectors Carbon Monoxide (CO)	100 µmol/mol	5 % of reading	Gas Standard	IN-TWI-13-22 Internal Process	F

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Chemical	Gas Detectors Carbon Monoxide (CO)	60 µmol/mol	2 % of reading	Gas Standard	IN-TWI-13-22 Internal Process	F
Chemical	Gas Detectors Hydrogen Sulfide (H2S)	25 µmol/mol	10 % of reading	Gas Standard	IN-TWI-13-22 Internal Process	F
Chemical	Gas Detectors Hydrogen Sulfide (H2S)	20 µmol/mol	2 % of reading	Gas Standard	IN-TWI-13-22 Internal Process	F
Chemical	Conductivity Meter	100 µS/cm	0.84 µS/cm	Buffer Solutions	IN-TWI-13-18 Internal Process	F, O
Chemical	Conductivity Meter	1 413 µS/cm	4.4 µS/cm	Buffer Solutions	IN-TWI-13-18 Internal Process	F, O
Chemical	Conductivity Meter	10 000 µS/cm	39 µS/cm	Buffer Solutions	IN-TWI-13-18 Internal Process	F, O
Chemical	pH Meters pH Probes	4 pH	0.021 pH	Buffer Solutions	IN-TWI-13-19 Internal Process	F
Chemical	pH Meters pH Probes	7 pH	0.021 pH	Buffer Solutions	IN-TWI-13-19 Internal Process	F
Chemical	pH Meters pH Probes	10 pH	0.021 pH	Buffer Solutions	IN-TWI-13-19 Internal Process	F
Chemical	Breathalyzer	0.04 % BAC to 0.1 % BAC	0.002 1 % BAC	Gas Standard OIML R 126	IN-TWI-13-40 Internal Process	F, O
Chemical	Particle Counter (Particle Size 0.3 µm)	10 particles/m^3 to 120 000 000 particles/m^3	(1.47 + 8.07 x 10^{-4}D) particles/m^3	Particle Counter	IN-TWI-13-45 Internal Process	F
Chemical	Particle Counter (Particle Size 0.5 µm)	10 particles/m^3 to 120 000 000 particles/m^3	(1.47 + 8.07 x 10^{-4}D) particles/m^3	Particle Counter	IN-TWI-13-45 Internal Process	F
Chemical	Particle Counter (Particle Size 0.7 µm)	10 particles/m^3 to 120 000 000 particles/m^3	(1.47 + 8.07 x 10^{-4}D) particles/m^3	Particle Counter	IN-TWI-13-45 Internal Process	F

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Chemical	Particle Counter (Particle Size 1 µm)	10 particles/m^3 to 120 000 000 particles/m^3	(1.47 + 8.07 x 10^{-4}D) particles/m^3	Particle Counter	IN-TWI-13-45 Internal Process	F
Chemical	Particle Counter (Particle Size 5 µm)	10 particles/m^3 to 120 000 000 particles/m^3	(1.47 + 8.07 x 10^{-4}D) particles/m^3	Particle Counter	IN-TWI-13-45 Internal Process	F
Electrical	Equipment to Measure Pulse Electrical Simulation	0.5 kV to 35 kV	0.002 2 kV	Voltage Divider Oscilloscope	IN-TWI-13-48 Internal Process	F
Electrical	Moister Counter (Leather) Electrical Simulation	11 % Moisture Content to 22 % Moisture Content	0.07 % Moisture Content	High Resistance Standard	IN-TWI-13-56 Internal Process	F
Electrical	Moister Counter (Paper) Electrical Simulation	4 % Moisture Content to 17 % Moisture Content	0.07 % Moisture Content	High Resistance Standard	IN-TWI-13-56 Internal Process	F
Electrical	Moister Counter (Wood) Electrical Simulation	8 % Moisture Content to 34 % Moisture Content	0.07 % Moisture Content	High Resistance Standard	IN-TWI-13-56 Internal Process	F
Electrical	Equipment to Measure DC Current	0.2 µA to 200 µA	0.006 9 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure DC Current	0.21 mA to 2 mA	0.007 1 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure DC Current	2.1 mA to 20 mA	0.007 1 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O

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Electrical	Equipment to Measure DC Current	21 mA to 200 mA	0.012 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure DC Current	0.21 A to 2 A	0.011 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure DC Current	2.1 A to 30 A	0.016 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure DC Voltage	0.2 mV to 200 mV	0.006 2 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure DC Voltage	0.22 V to 2 V	0.001 1 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure DC Voltage	2.2 V to 20 V	0.01 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O

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Electrical	Equipment to Measure DC Voltage	22 V to 200 V	0.001 5 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure DC Voltage	220 V to 1 000 V	0.001 5 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure AC/DC Current Clamp-on Meters (Toroidal)	1 A to 1 500 A	0.018 % of reading	Transmille Calibrator 3041A Workstation Model EA015	IN-TWI-13-30 Internal Process	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 500 kHz)	20 mV to 200 mV	0.01 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 500 kHz)	0.22 V to 2 V	0.012 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 100 kHz)	2.2 V to 20 V	0.012 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 20 kHz)	22 V to 200 V	0.012 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O

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Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 10 kHz)	220 V to 1 000 V	0.011 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 10 kHz)	25 µA to 200 µA	0.08 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 10 kHz)	0.21 mA to 2 mA	0.063 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 10 kHz)	2.1 mA to 20 mA	0.063 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 10 kHz)	21 mA to 200 mA	0.026 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 5 kHz)	0.21 A to 2 A	0.065 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 1 kHz)	2.1 A to 30 A	0.036 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O

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Electrical	Equipment to Measure Resistance	0.1 Ω	1.2 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure Resistance	1 Ω	0.12 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure Resistance	10 Ω	0.12 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure Resistance	100 Ω	0.012 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Resistance	1 kΩ	0.001 7 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Resistance	10 kΩ	0.001 8 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O

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Electrical	Equipment to Measure Resistance	100 kΩ	0.001 9 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Resistance	1 MΩ	0.002 1 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Resistance	10 MΩ	0.003 2 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Resistance	100 MΩ	0.001 8 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Resistance	1 GΩ	0.051 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O

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Electrical	Equipment to Measure Earth Resistance (Up to 1 kHz)	1 Ω to 9 Ω	0.14 % of reading	Resistance Decade Box Model RBOX-408	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Earth Resistance (Up to 1 kHz)	10 Ω to 99 Ω	0.012 % of reading	Resistance Decade Box Model RBOX-408	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Earth Resistance (Up to 1 kHz)	100 Ω to 999 Ω	0.001 3 % of reading	Resistance Decade Box Model RBOX-408	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Earth Resistance (Up to 1 kHz)	1 kΩ to 9.9 kΩ	0.12 % of reading	Resistance Decade Box Model RBOX-408	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Earth Resistance (Up to 1 kHz)	10 kΩ to 99 kΩ	0.012 % of reading	Resistance Decade Box Model RBOX-408	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O

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Electrical	Equipment to Measure Earth Resistance (Up to 1 kHz)	10 kΩ to 999 kΩ	0.001 4 % of reading	Resistance Decade Box Model RBOX-408	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Earth Resistance (Up to 1 kHz)	1 MΩ to 10 MΩ	0.14 % of reading	Resistance Decade Box Model RBOX-408	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Capacitance	1 nF to 1 00 nF	0.061 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Capacitance	1 uF to10 uF	0.14 % of reading	Transmille Calibrator 3041A	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Insulation Resistance (Fixed Points) (Up to 5 kV)	1 kΩ	0.12 % of reading	High Resistance Standard Decade Box Model VRS-100-10-1 kΩ-ROT	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-34 IN-TWI-13-46 Internal Process	F, O

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Electrical	Equipment to Measure Insulation Resistance (Fixed Points) (Up to 5 kV)	10 kΩ	0.12 % of reading	High Resistance Standard Decade Box Model VRS-100-10-1 kΩ-ROT	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-34 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure Insulation Resistance (Fixed Points) (Up to 5 kV)	100 kΩ	0.12 % of reading	High Resistance Standard Decade Box Model VRS-100-10-1 kΩ-ROT	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-34 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure Insulation Resistance (Fixed Points) (Up to 5 kV)	1 MΩ	0.12 % of reading	High Resistance Standard Decade Box Model VRS-100-10-1 kΩ-ROT	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-34 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure Insulation Resistance (Fixed Points) (Up to 5 kV)	10 MΩ	0.12 % of reading	High Resistance Standard Decade Box Model VRS-100-10-1 kΩ-ROT	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-34 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure Insulation Resistance (Fixed Points) (Up to 5 kV)	100 MΩ	0.12 % of reading	High Resistance Standard Decade Box Model VRS-100-10-1 kΩ-ROT	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-34 IN-TWI-13-46 Internal Process	F, O

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Electrical	Equipment to Measure Insulation Resistance (Fixed Points) (Up to 5 kV)	1 GΩ	0.02 % of reading	High Resistance Standard Decade Box Model VRS-100-10-1 kΩ-ROT	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-34 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure Insulation Resistance (Fixed Points) (Up to 5 kV)	10 GΩ	0.26 % or reading	High Resistance Standard Decade Box Model VRS-100-10-1 kΩ-ROT	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-34 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure Insulation Resistance (Fixed Points) (Up to 5 kV)	100 GΩ	0.37 % of reading	High Resistance Standard Decade Box Model VRS-100-10-1 kΩ-ROT	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-34 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure Insulation Resistance (Fixed Points) (Up to 5 kV)	1 TΩ	0.51 % of reading	High Resistance Standard Decade Box Model VRS-100-10-1 kΩ-ROT	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-34 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure Capacitance - (Up to 10 kV)	100 pF to 10 µF	0.074 % of reading	Capacitance Decade Box Model CBOX-406	IN-TWI-13-09 IN-TWI-13-30 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Measure Resistance (@ Up to 1 kHz)	1 mΩ to 10 mΩ	2.3 % of reading	Resistance Decade Box Model HARS-X-3-0.001	IN-TWI-13-65 Internal Process	F, O

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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	LOCATION OF ACTIVITY
Electrical	Equipment to Measure Resistance (@ Up to 1 kHz)	10 mΩ to 100 mΩ	0.23 % of reading	Resistance Decade Box Model HARS-X-3-0.001	IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Measure Resistance (@ Up to 1 kHz)	100 mΩ to 1 000 mΩ	0.12 % of reading	Resistance Decade Box Model HARS-X-3-0.001	IN-TWI-13-65 Internal Process	F, O
Electrical	Equipment to Output AC Voltage (Hipot) (@ 60 Hz)	1 kV to 10 kV	0.14 % of reading	Voltage Divider/ Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output DC Voltage (Hipot)	1 kV to 10 kV	0.36 % of reading	Voltage Divider/ Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Porosity Detector	1 kV to 30 kV	0.48 % of reading	Crest Meter/ Voltage Divider	IN-TWI-13-33 Internal Process	F, O
Electrical	Equipment to Measure DC Power	2 W to 3 000 W	0.004 2 % of reading	Transmille Calibrator 3041A	IN-TWI-13-29 IN-TWI-13-67 Internal Process	F, O
Electrical	Equipment to Measure AC Powe (PF=1, Phase = 0º)	2 W to 30 000 W	0.04 % of reading	Transmille Calibrator 3041A	IN-TWI-13-29 IN-TWI-13-67 Internal Process	F, O
Electrical	Equipment to Output DC Voltage	0.1 mV to 100 mV	0.001 6 % of reading	Multimeter Transmille Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output DC Voltage	0.11 V to 1 V	0.001 2 % of reading	Multimeter Transmille Model 8081	IN-TWI-13-46 Internal Process	F, O

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Electrical	Equipment to Output DC Voltage	1.1 V to 10 V	0.001 2 % of reading	Multimeter Transmille Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output DC Voltage	11 V to 100 V	0.001 4 % of reading	Multimeter Transmille Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output DC Voltage	110 V to 1 000 V	0.001 5 % of reading	Multimeter Transmille Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 100 kHz)	20 mV to 100 mV	0.024 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 1 kHz)	0.2 V to 1 V	0.017 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 100 kHz)	1.1 V to 10 V	0.017 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 50 kHz)	11 V to 100 V	0.01 8 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 10 kHz)	110 V to 1 000 V	0.017 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output DC Current	0.1 µA to 100 µA	0.001 5 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output DC Current	0.11 mA to 1 mA	0.001 5 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output DC Current	1.1 mA to 10 mA	0.001 5 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O

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Electrical	Equipment to Output DC Current	11 mA to 100 mA	0.001 9 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output DC Current	0.11 A to 1 A	0.001 9 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output DC Current	1.1 A to 30 A	0.007 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output DC Current	11 A to 100 mA	0.008 1 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 10 kHz)	25 µA to 100 µA	0.14 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 10 kHz)	0.11 mA to 1 mA	0.031 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 10 kHz)	1.1 mA to 10 mA	0.027 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 10 kHz)	11 mA to 100 mA	0.018 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 10 kHz)	0.11 A to 1 A	0.019 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 1 kHz)	1.1 A to 10 A	0.02 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O

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Electrical	Equipment to Output AC Current (@ 10 Hz to 1 kHz)	11 A to 30 A	0.044 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output Resistance	1 Ω	0.012 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-44 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output Resistance	10 Ω	0.001 2 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-44 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output Resistance	100 Ω	0.000 14 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-44 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output Resistance	1 kΩ	0.014 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-44 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output Resistance	10 kΩ	0.001 2 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-44 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output Resistance	100 kΩ	0.012 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-44 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output Resistance	1 MΩ	0.012 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-44 IN-TWI-13-46 Internal Process	F, O
Electrical	Equipment to Output Resistance	10 MΩ	0.013 % of reading	Multimeter Transmiller Model 8081	IN-TWI-13-44 IN-TWI-13-46 Internal Process	F, O

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Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type B	600 °C to 1 820 °C	0.92 °C	Electrical Simulation of Thermocouple Output Multi-Function Workstation Transmille EA015 Transmille EA001A	IN-TWI-13-08 Internal Process	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type E	-200 °C to 1 000 °C	0.31 °C	Electrical Simulation of Thermocouple Output Multi-Function Workstation Transmille EA015 Transmille EA001A	IN-TWI-13-08 Internal Process	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type J	-200 °C to 1 200 °C	0.26 °C	Electrical Simulation of Thermocouple Output Multi-Function Workstation Transmille EA015 Transmille EA001A	IN-TWI-13-08 Internal Process	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type K	-200 °C to 1 370 °C	0.33 °C	Electrical Simulation of Thermocouple Output Multi-Function Workstation Transmille EA015 Transmille EA001A	IN-TWI-13-08 Internal Process	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type N	-190 °C to 1 300 °C	0.3 °C	Electrical Simulation of Thermocouple Output Multi-Function Workstation Transmille EA015 Transmille EA001A	IN-TWI-13-08 Internal Process	F, O

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Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type T	-250° C to 400 °C	0.27 °C	Electrical Simulation of Thermocouple Output Multi-Function Workstation Transmille EA015 Transmille EA001A	IN-TWI-13-08 Internal Process	F, O
Electrical	Temperature Calibration Indication, and Control Equipment used with RTD Pt 100 Ω	-100 °C to 800 °C	0.28 °C	Transmille 3041A Electrical Simulation of RTD Output	IN-TWI-13-08 Internal Process	F, O
Electrical	Teslameter (Gaussmeter)	1 µT to 1 500 µT (0.01 G to 15 G)	0.007 % of reading	Multi-Function Workstation Transmille	IN-TWI-13-28 Internal Process	F, O
Electrical	Teslameter (Gaussmeter)	240 mT to 980 mT (2.4 kG to 9.8 kG)	0.13 % of reading	Reference Magnet VM 4-2 mm, VM 4-5 mm, VM 4-10 mm	IN-TWI-13-28 Internal Process	F, O
Electrical	Oscilloscope Amplitude (Square Wave Signal) (1 MΩ and 10 MΩ)	1 mV to 120 V p-p	0.002 4 % of reading	Transmille Calibrator 3041A; Impedance	IN-TWI-13-58 Internal Process	F, O
Electrical	Oscilloscope Amplitude (Square Wave Signal) Frequency (1 MΩ and 10 MΩ)	1 Hz to 50 MHz	0.000 24 % of reading	Transmille Calibrator 3041A; Impedance	IN-TWI-13-58 Internal Process	F
Electrical	Equipment to Measure AC Apparent Power	0.2 VA to 200 VA	0.000 61 % of reading	Transmille Calibrator 3041A; Multifuction Workstation Trasmille	IN-TWI-13-67 Internal Process	F
Electrical	Equipment to Measure AC Apparent Power	210 VA to 2 000 VA	0.000 61 % of reading	Transmille Calibrator 3041A; Multifuction Workstation Trasmille	IN-TWI-13-67 Internal Process	F

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Electrical	Equipment to Measure AC Apparent Power	2.1 kVA to 20 kVA	0.000 61 % of reading	Transmille Calibrator 3041A; Multifuction Workstation Trasmille	IN-TWI-13-67 Internal Process	F
Electrical	Equipment to Measure AC Apparent Power	21 kVA to 200 kVA	0.000 61 % of reading	Transmille Calibrator 3041A; Multifuction Workstation Trasmille	IN-TWI-13-67 Internal Process	F
Electrical	Equipment to Measure AC Apparent Power	210 kVA to 1 500 kVA	0.000 81 % of reading	Transmille Calibrator 3041A; Multifuction Workstation Trasmille	IN-TWI-13-67 Internal Process	F
Electrical	Transformation Ratio Tester	1 TTR to 2 048 TTR	0.014 TTR	Lap Ratio: Test Types Equipment Megger TRS1+	IN-TWI-13-70 Internal Process	F

1. The CMC (Calibration and Measurement Capability) 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 CMC 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.

2. The laboratories range of calibration capability for all disciplines for which they are 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.

3. Location of activity:

Location Code	Location
F	Conformity assessment activity is performed at the CABs fixed facility
O	Conformity assessment activity is performed onsite at the CABs customer location

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4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories 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 laboratories fixed location.

5. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.

6. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.

7. The term D represent Particle/m3