



SCOPE OF ACCREDITATION TO ISO/IEC 17025:20



Title / Description:

Mechanical Shock, Random Drop
Up to 5000 g's

Test Method(s)¹:

MIL -



Title / Description:

Test Method(s):

Temp & Temp/Humidity Cycling Humidity,
Moisture

GR-63-CORE (Section 4.1.2)*; GR-3108-CORE*;
GR-3160-CORE*; MIL-STD-810 (Method 507)*;
RTCA DO-160 (Section 6)*

Humidity: 30% RH to 95% RH

HALT/HASS²
(-100 to 20) °C
Up to 50 g's
5kHz to 10kHz

NOR ENV 06

Degrees of Protection Provided by Enclosures:
Access to Hazardous Parts
Solid Foreign Objects
Water
Dust
Protection of Electrical Equipment

CEI/IEC 60529 Ed. 2.1 (2001-02)
(Sections 12.3.1, 12.3.2, 12.3.3, & 12.3.4)
(Sections 13.2, 13.3, & 13.4)*
(Sections 14.2.1, 14.2.2, 14.2.3, 14.2.4, 14.2.5, 14.2.6,
14.2.7, & 14.2.8)*;
ISO 20653 IPX9K

ISTA Preshipment Test Procedures
Drop, Shock except horizontal impact test
Vibration, Rotational Shock
(NTS Boxborough also listed by ISTA)

ISTA Preshipment Test Procedures
1A, 1B, 1C, 1D, 1E, 1G, 1H, 2A, 2B, 2C, 2D, 2E, 3A,
3E, 3F, 3H, 5B, 7B, 7C, 7D-series*

Environmental Test Methods & Engineering
Guidelines

MIL-STD-810 (Methods 500, 501, 502, 503, 506, 509, 512, & 521)*

Test Methods & Procedures for
Microelectronics

MIL-STD-883 (Methods 1001, 1002, 1003, 1004, 1007, 1008, 1009, 1010, 1011, 1012, & 1013)*;
RTCA/DO-160 (Sections 4, 5, 6 & 8)* &

T-0 0 1608.72 362.52 252.8404 72 300.24 1



Title / Description:

Test Method(s):

Seismic

ATIS 0600329;
GR-63-CORE*; GR-3108-CORE*; GR-3160-CORE*;
IEEE STD 3442004*;
IBC 2000*;
AC156*

Explosive Atmosphere

MIL -STD-810 (Method 511.4)*;
RTCA/DO-160(Section 9)*

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R3101 General Requirements Accreditation of ISO/IEC 17025 Laboratories.

² Also using customer specified methods directly related to the types of tests and parameters listed above.

*All Revisions of standard are included.



A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY BOXBOROUGH

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 . This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system ().



Presented this 31st day of October 2023.

Mr. Trace McInturff, Vice President, Accreditation Services