



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ACOUSTICS & VIBRATION

Valid To: December 31, 2024

Certificate Number: 0767.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following acoustics & vibration tests on military, aerospace, automotive and commercial products:

Vibration (Sine, Random, Sine on Random, Gunfire, Shipboard, Seismic)
Combined Environments and Reliability (Vibration and Temperature)
Classical Shock (Half Sine, Sawtooth, Trapezoidal Wave)
Pyro-Shock
Airborne and Structure Borne Noise Measurements

Test Technology:

Capability:

Vibration with Combined Environments

Temperature Range: (-65 to +275) °F

Humidity Range: (30 to 98) %RH

Random

| | |
|-----------------|-----------------------|
| Force Rating | 55,000 lbf |
| Frequency Range | (1 to 3,000) Hz |
| Maximum Level | 200 G's |
| Displacement | 3 inches Peak-to-Peak |

Sinusoidal

| | |
|---------------------------------|-----------------------|
| Force Rating | 55,000 lbf |
| Frequency Range | (1 to 3,000) Hz |
| Sine Velocity Continuous Duty | 125 in/sec |
| Sine Velocity Intermittent Duty | 135 in/sec |
| Maximum Level | 200 G's |
| Displacement | 3 inches Peak-to-Peak |

Classical Shock

| | |
|-----------|---------------------------|
| Force | 80,000 lbf |
| Waveforms | Sine, Sawtooth, Trapezoid |

Test Technology:

Pyro-Shock

Level
Frequency Range

Displacement

Seismic

Airborne and Structure Borne Noise Movements

Testing Criteria:*

Airborne And Structure Borne Noise Measurement

Acceleration (Centrifuge)

Pyro-Shock

Shock Test, High Impact on
Shipboard Machinery, Equipment,
and Systems

Vibration

Capability:

(500 to 32,000) G's
(20 to 20,000) Hz

10 ½ inches

Test Method(s) ²:

MIL-STD-740-1; MIL-STD-740-2

MIL-STD-810C, Method 513.2;
MIL-STD-810D, Method 513.3;
MIL-STD-810E, Method 513.4;
MIL-STD-810F, Method 513.5;
MIL-STD-810G, Method 513.6;
MIL-STD-810G w/ Change 1, 513.7;
MIL-STD-810H, 513.8;
MIL-STD-202G, Method 212A;
RTCA/DO-160E;
RTCA/DO-160F;
RTCA/DO-160G

MIL-STD 1540;
MIL-STD-810F, Method 517;
MIL-STD-810G, Method 517.1;
MIL-STD-810G w/ Change 1, 517.2;
MIL-STD-810H, 517.3

MIL-S-901D, LWH and MWH (superseded by) ¹;
MIL-DTL-901, LWH and MWH;
MIL-STD-202G, Method 207B

MIL-STD-810C, Method 514.2;
MIL-STD-810D, Method 514.3;
MIL-STD-810E, Method 514.4;
MIL-STD-810F, Method 514.5;
MIL-STD-810G, Method 514.6;
MIL-STD-810G w/ Change 1, 514.7;
MIL-STD-810H, 514.8;
MIL-STD-810D, Method 520.0;
MIL-STD-810E, Method 520.1;
MIL-STD-810F, Method 520.2;
MIL-STD-810G, Method 520.3;
MIL-STD-810G w/ Change 1, 520.4;
MIL-STD-810H, 520.5;
MIL-STD-810G, Method 520.5;



Test Technology:

Capability:

Vibration
(cont.)

IEC 60068-2-6 (2007-12, Edition 7.0);
MIL-STD-202G, Methods 201A, 204D, and 214A;
RTCA/DO-160E (Section 8);
RTCA/DO-160F (Section 8);
RTCA/DO-160G (Section 8);
MIL-STD-1344A;
MIL-STD-167-1; MIL-STD 167-1A

Gunfire Vibration, Aircraft

MIL-STD-810C, Method 519.2;
MIL-STD-810D, Method 519.3;
MIL-STD-810E, Method 519.4;
MIL-STD-810F, Method 519.5;
MIL-STD-810G, Method 519.6;
MIL-STD-810G w/ Change 1, 519.6;
MIL-STD-810H, 519.7

Shock

MIL-STD-810C, Method 516.2;
MIL-STD-810D, Method 516.3;
MIL-STD-810E, Method 516.4;
MIL-STD-810F, Method 516.5;
MIL-STD-810G, Method 516.6;
MIL-STD-810G w/ Change 1, 516.7;
MIL-STD-810H, 516.8;
MIL-STD-202G, Method 213B;
MIL-STD-1344A;
RTCA/DO-160E (Section 7);
RTCA/DO-160F (Section 7);
RTCA/DO-160G (Section 7);
IEC 60068-2-27 (2008-02, Edition 4.0)

*Also using customer supplied test methods directly related to the capabilities listed above.

¹ This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

² 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 *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.





Accredited Laboratory

A2LA has accredited

DAYTON T. BROWN, INC.

Bohemia, NY

for technical competence in the field of

Acoustics and Vibration Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 17th day of July 2023.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0767.01
Valid to December 31, 2024

For the types of tests to which this accreditation applies, please refer to the laboratory's Acoustics and Vibration Scope of Accreditation.