



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) <sup>2</sup>:**

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MIL-S-901D, LWH and MWH (superseded by) <sup>1</sup>;  
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.

<sup>1</sup> 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.

<sup>2</sup> 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 17<sup>th</sup> 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.*