



THE AMERICAN ASSOCIATION FOR  
LABORATORY ACCREDITATION

## 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 17025:2005 *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 January 2009*).



Presented this 13<sup>th</sup> day of March 2009.

A handwritten signature in cursive script, appearing to read "Peter Abney".

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President

For the Accreditation Council

Certificate Number 0767.01

Valid to December 31, 2010

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

DAYTON T. BROWN, INC.

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ACOUSTICS & VIBRATION

Valid To: December 31, 2010

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), Combined Environments and Reliability (Temperature, Humidity and Vibration), Classical Shock (Half Sine, Sawtooth, Trapezoidal Wave), Pyroshock, Airborne and Structure Borne Noise Measurements.

VIBRATION/SHOCK CAPABILITIES UP TO THE FOLLOWING:

*Random*

Force Rating	40,000 lb <sub>f</sub>
Frequency Range	(4 to 3000) Hz
Maximum Level	200 grms
Displacement	2 inches Peak-to-Peak

*Sinusoidal*

Force Rating	40,000 lb <sub>f</sub>
Frequency Range	(4 to 3000) Hz
Sine Velocity Continuous Duty	125 in/sec
Sine Velocity Intermittent Duty	135 in/sec
Maximum Level	200 g's
Displacement	2 inches Peak-to-Peak

*\*Also sing combined environment Sine on Random using the above parameters*

*Classical Shock*

Force	80,000 lb <sub>f</sub>
Waveforms	Sine, Sawtooth, Trapezoid
Maximum Level	(600 to 3000) g's

*Pyroshock*

Level	(5000 to 32,000) g's
Frequency Range	(100 to 10,000) Hz

*Displacement* 2 inches Peak-to-Peak

*Airborne and Structure Borne Noise Measurements*

<i>Testing Criteria</i>	<i>Specification(s)</i>
Airborne And Structure Borne Noise Measurement	MIL-STD-740 1-2
Acceleration (Centrifuge)	MIL-STD-810C 513.2, 810D 513.3, 810E 513.4 810F 513.5; RTCA/DO-160E
Buzz, Squeak And Rattle	Automotive Requirements
Pyro Shock	MIL-STD-1540, MIL-STD-810F 517
Sound and Power	ANSI:S1.2, S1.35
Shock Test, High Impact on Shipboard Machinery, Equipment and Systems	MIL-S-901D LWH and MWH
MIL-STD-810 (Vibration: 810C 514.2, 810D 514.3, 810E 513.4, 810F 514.5; Acoustical Noise: 810C 515.2, 810D 515.3, 810E 515.4, 810F 515.5; Gunfire Vibration, Aircraft: 810C 519.2, 810D 519.3, 810E 519.4, 810F 519.5);	
MIL-STD-202 201A (Vibration, 202D, 203B; Random Drop 204D; Vibration High frequency, 205E, 207A; High-Impact Shock, 212A; Acceleration, 213B Shock (specified pulse), 214A; Random Vibration);	
RTCA/DO-160E (Sections 7.0 Operational Shocks and Crash Safety, 8.0 Vibration);	
MIL-STD-167-1 Shipboard Vibration;	
IEC 60068-2-6:2007-12, Ed 7.0, Test Fc: Sinusoidal Vibration Testing During Operation;	
IEC 60068-2-27:2008-02, Ed. 4.0, Test Ea: Shock Testing during operation	