



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NATIONAL TECHNICAL SYSTEMS (NTS)

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ACOUSTICS & VIBRATION

Valid to: June 30, 2018

Certificate Number: 0214.05

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following automotive, commercial, telecommunications, and aerospace testing:

**Test:**

**Test Method(s):**

**Vibration<sup>1</sup>**

Electro Dynamic Shaker

- Sine, Random & Combined
- 45,000 Pounds Force
- 70,000 Pounds Force Dual Shakers
- 200 Grms
- (2 to 3,000) Hz
- 6,000 Hz with Resonant Fixture
- 2.0" Stroke

MIL-STD-331: B1 and B3;

MIL-STD-810: 514;

MIL-STD-167-1: 5.1, 5.2, and 5.3;

MIL-STD-202: 201, 204, and 214;

MIL-STD-883: 2005, 2006, 2007, and 2026;

MIL-STD-750: 2046, 2051, and 2056;

MIL-STD-2105: 5.1.2

Servo Hydraulic Shaker

- Sine, Random, and Shock
- 100,000 pounds force
- (2 to 500) Hz
- 150 inches/second
- 9.0" Stroke

RTCA DO 160, Section 8;

MIL-STD-810: 514 and 516

**Shock<sup>1</sup>**

Electro Dynamic Shaker

- 120 inches/second Velocity
- 2.0" Stroke
- 6,000 SRS G

MIL-STD-810: 516 and 519;

MIL-STD-202: 203, 207, and 213;

MIL-STD-883: 2002;

MIL-STD-750: 2016;

MIL-STD-2102: 4.6 and 5.6;

RTCA DO 160, Section 7

**Test:**

**Test Method(s):**

**Shock (cont.)<sup>1</sup>**

Drop Tower (Instrumented)

- 100 ft/sec

MIL-STD-810: 516 and 517

Impact Tower (Metal to Metal)

- 20,000 G at 3 axis Simultaneous

MIL-STD-810: 517

Pyro-shock (Ordnance Induced or Mechanical Induced)

- 100,000 G at 3 axis Simultaneous

MIL-STD-810: 517

Acoustic Reverberation

- 165 dB
- 10 Hz to 85,000 Hz

MIL-STD-810: 515;  
MIL-STD-740-1

Acoustic Progressive Wave Tube

- 171 dB
- 10 Hz to 85,000 Hz

MIL-STD-810: 515;  
MIL-STD-740-1

Thermal Acoustic

- 165 dB
- 10 Hz to 85,000 Hz
- -65°F to 200°F

MIL-STD-810: 515 with Temperature

Acoustic Emissions

- 23dBA Noise Floor
- 23dBA to 180dBA  
10 Hz to 20,000 Hz
- 110dBA to 180dBA  
10 Hz to 85,000 Hz

MIL-STD-740-1

<sup>1</sup>Also using customer specifications based on the above standards and within the listed parameters.



## *Accredited Laboratory*

A2LA has accredited

# **NATIONAL TECHNICAL SYSTEMS (NTS)**

*Santa Clarita, CA*

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 8 January 2009).



Presented this 11<sup>th</sup> day of July 2016.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 0214.05  
Valid to June 30, 2018  
Revised March 27, 2018

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