



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NATIONAL TECHNICAL SYSTEMS (NTS)  
1536 East Valencia Drive  
Fullerton, CA 92831  
Cathy Rumble Phone: (714) 879-6110  
E-mail: [cathy.rumble@nts.com](mailto:cathy.rumble@nts.com)  
Website: <http://www.nts.com>

ACOUSTIC AND VIBRATION

Valid to: June 30, 2018

Certificate Number: 0214.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to the laboratory to perform the following Acoustic and Vibration tests:

**Tests**

**Test Methods**

Acoustic Noise

GR-63-CORE; GR-487-CORE;  
ISO 7779:1999

Airborne Noise

MIL-STD-740-1

Structureborne Noise

MIL-STD-740-2

Vibration<sup>1</sup> –

Sine / Random / Mixed Mode (Sine-on-Random  
and Random-on-Random)

Electrodynamic Shakers: (2 to 3000) Hz

Up to 36,000 Force Pounds

Up to 3 inches displacement

Siesmic Hydraulic Shakers: (.1 to 500) Hz

12,000 Force Pounds

10 inches displacement

Up to 40 inches / second velocity

Windmilling Hydraulic Shakers (.1 to 50) Hz

10,000 Force Pounds

16 inches displacement

Up to 200 inches / second velocity

GR-49-CORE; EIA-364-28;

ETSI EN 300 019-2-1;

ETSI EN 300 019-2-2;

ETSI EN 300 019-2-3;

ETSI EN 300 019-2-4; GR-63-CORE;

GR-487-CORE; GR-950-CORE;

MIL-DTL-28840; MIL-DTL-38999;

MIL-DTL-83723; MIL-PRF-39012;

MIL-PRF-39014; MIL-PRF-49142;

MIL-PRF-49467; SAE AS39029;

SAE AS85049; SAE AS50151;

MIL-DTL-26482; MIL-DTL-26500;

MIL-DTL-24308; MIL-STD-167-1 & 1A;

MIL-STD-202 (all versions);

MIL-STD-810 (all versions);

RTCA/DO-160 (all versions)

**Tests**

Shock<sup>1</sup>  
Electrodynamic Shakers: (2 to 3000) Hz  
Up to 36,000 Force Pounds  
Up to 3 inches displacement

High Impact Shock

Drop

Earthquake Seismic Simulation<sup>1</sup>  
Siesmic Hydraulic Shakers: (.1 to 500) Hz  
12,000 Force Pounds  
10 inches displacement  
Up to 40 inches / seconds velocity

**Test Methods**

EIA-364-27; ETSI EN 300 019-2-1;  
ETSI EN 300 019-2-2;  
ETSI EN 300 019-2-3;  
ETSI EN 300 019-2-4; GR-487-CORE;  
MIL-DTL-28840; MIL-DTL-38999;  
MIL-PRF-39012; MIL-PRF-39014;  
MIL-PRF-49142; MIL-PRF-49467;  
MIL-DTL-83513; SAE AS39029;  
SAE AS85049; SAE AS50151;  
MIL-DTL-26482;  
MIL-STD-202 (all versions);  
MIL-STD-810 (all versions);  
RTCA/DO-160 (all versions)

MIL-S-901;  
MIL-STD-202 (all versions);  
MIL-DTL-28840

GR-49-CORE;  
GR-63-CORE;  
GR-487-CORE;  
GR-950-CORE

GR-63-CORE;  
GR-487-CORE;  
GR-950-CORE;  
AC156

*<sup>1</sup> This laboratory also uses customer supplied specifications and/or methods directly related to the testing technologies and parameters listed above.*

On the following types of equipment:

Telecommunication Equipment, Network Equipment, Industrial and Commercial Equipment, Electronic (Digital) Equipment, Aerospace





## *Accredited Laboratory*

A2LA has accredited

# **NATIONAL TECHNICAL SYSTEMS (NTS)**

*Fullerton, 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 18<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 0214.01  
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.*