



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

INDEPENDENT TESTING LABORATORIES, INC.

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ELECTRICAL

Valid to: October 31, 2023

Certificate Number: 3137.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electromagnetic capability tests:

<u>Test:</u>	<u>Test Specifications ¹:</u>	<u>Method ¹:</u>
Audio Frequency Conducted Susceptibility - Power Inputs	RTCA/DO-160 D, E, F, G	Section 18
Electrostatic Discharge (ESD)	RTCA/DO-160 D, E, F, G	Section 25
Emission of Radio Frequency Energy (Conducted and Radiated)	RTCA/DO-160 D, E	Sections 21.3 and 21.4
Emission of Radio Frequency Energy (Conducted and Radiated)	RTCA/DO-160 F, G	Sections 21.4 and 21.5
Induced Signal Susceptibility	RTCA/DO-160 D, E, F, G	Section 19
Lightning Induced Transient Susceptibility (<i>except waveform 6</i>)	RTCA/DO-160 D, E, F, G	Section 22
Magnetic Effect	RTCA/DO-160 D, E, F, G	Section 15
Power Input	RTCA/DO-160 D, E, F, G	Section 16
Radio Frequency Susceptibility (Radiated and Conducted)	RTCA/DO-160 D, E, F, G	Sections 20.4 and 20.5
Voltage Spike	RTCA/DO-160 D, E, F, G	Section 17
CE101 – Conducted Emissions, Power Leads, 30 Hz to 10kHz	MIL-STD-461 D, E, F, G	Section 5.4

<u>Test:</u>	<u>Test Specifications ¹:</u>	<u>Method ¹:</u>
CE102 – Conducted Emissions, Power Leads, 10 kHz to 10 MHz	MIL-STD-461 D, E, F, G	Section 5.5
CS101 – Conducted Susceptibility, Power Leads, 30 Hz to 150 kHz	MIL-STD-461 D, E, F, G	Section 5.6
CS114 – Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 200 MHz	MIL-STD-461 D, E, F, G	Section 5.13
CS115 – Conducted Susceptibility, Bulk Cable Injection, Impulse Excitation	MIL-STD-461 D, E, F, G	Section 5.14
CS116 – Conducted Susceptibility, Damped Sinusoidal Transients, Cable & Power Leads, 10 kHz to 100 MHz (<i>excluding MIL-STD-461 D, clause 4c(2) resonant frequencies</i>)	MIL-STD-461 D, E, F, G	Section 5.15
RE101 – Radiated Emissions, Magnetic Field, 30 Hz to 100 kHz	MIL-STD-461 D, E, F, G	Section 5.16
RE102 – Radiated Emissions, Electric Field, 10 kHz to 18 GHz	MIL-STD-461 D, E, F, G	Section 5.17
RS101 – Radiated Susceptibility, Magnetic Field, 30 Hz to 100 kHz	MIL-STD-461 D, E, F, G	Section 5.19
RS103 – Radiated Susceptibility, Electric Field, 2 MHz to 18 GHz	MIL-STD-461 D, E, F, G	Section 5.20

On the following types of products, material, and/or industry:

In-flight Entertainment Systems and Various Aircraft Subsystems, Military components, and Aerospace components

¹ 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

INDEPENDENT TESTING LABORATORIES, INC.

Costa Mesa, CA

for technical competence in the field of

Electrical 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 6th day of July 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3137.02
Valid to October 31, 2023
Revised July 25, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.