



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT U.S. SPACE & DEFENSE  
6881 Kingspointe Parkway, Suite 15, Orlando, FL 32819  
Scott Williamson (Lead Engineer) Phone: 407-313-4320  
[Scott.Williamson@elementdefense.com](mailto:Scott.Williamson@elementdefense.com)  
<http://www.elementdefense.com>

ELECTRICAL

Valid to: September 30, 2025

Certificate Number: 214.47

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

**Test(s):**

**Test Method(s):**

**Emissions**

Radiated

RTCA/DO-160D, Section 21;  
RTCA/DO-160E, Sections 21.3 and 21.4;  
RTCA/DO-160F, Sections 21.4 and 21.5;  
RTCA/DO-160G, Sections 21.4 and 21.5;  
MIL-STD 461C (RE01 and RE02);  
MIL-STD 461D (RE101 and RE102);  
MIL-STD 461E (RE101 and RE102);  
MIL-STD 461F (RE101 and RE102);  
MIL-STD 461G (RE101 and RE102);  
MIL-STD 462

Conducted

RTCA/DO-160D, Section 21;  
RTCA/DO-160E, Sections 21.3 and 21.4;  
RTCA/DO-160F, Sections 21.4 and 21.5;  
RTCA/DO-160G, Sections 21.4 and 21.5;  
MIL-STD 461C (CE01, CE03, and CE06);  
MIL-STD 461D (CE101 and CE102);  
MIL-STD 461E (CE101 and CE102);  
MIL-STD 461F (CE101, CE102, and CE106);  
MIL-STD 461G (CE101, CE102, and CE106);  
MIL-STD 462

**Immunity**

Magnetic Effects

RTCA/DO-160D/E/F/G, Section 15

Power Input

RTCA/DO-160D/E/F/G, Section 16

**Test(s):**

**Test Method(s):**

**Immunity (*continued*)**

Aircraft Electric Power Characteristics	MIL-STD-704A/B/C/D/E/F; MIL-HDBK-704-2, -3, and -8
Voltage Spike	RTCA/DO-160D/E/F/G, Section 17
Audio Frequency Conducted	RTCA/DO-160D/E/F/G, Section 18
Susceptibility Induced Signal Susceptibility	RTCA/DO-160D/E/F/G, Section 19
RF Susceptibility (Radiated and Conducted)	RTCA/DO-160D/E/F/G, Section 20
Lightning Induced Transient Susceptibility	RTCA/DO-160D/E/F/G, Section 22; MIL-STD-461G (CS117)
Electrostatic Discharge	RTCA/DO-160D/E/F/G, Section 25; MIL-STD-461G (CS118)
Radiated Immunity	MIL-STD-461C (RS01, RS02, and RS03); MIL-STD 461D (RS101 and RS103); MIL-STD 461E (RS101 and RS103); MIL-STD 461F (RS101 and RS103); MIL-STD 461G (RS101 and RS103); MIL-STD 462 (RS06); MIL-STD 462
Conducted Immunity	MIL-STD-461C (CS01, CS02, CS06); MIL-STD 461D (CS101, CS114, CS115, and CS116); MIL-STD 461E (CS101, CS114, CS115, and CS116); MIL-STD 461F (CS101, CS106, CS114, CS115, and CS116); MIL-STD 461G (CS101, CS106, CS114, CS115, and CS116); MIL-STD 462 (CS06); MIL-STD 462





# Accredited Laboratory

A2LA has accredited

## ELEMENT U.S. SPACE & DEFENSE

Orlando, FL

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 8<sup>th</sup> day of January 2024.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 214.47  
Valid to September 30, 2025  
Revised May 17, 2024

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