



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

C & C TECHNOLOGIES, INC.
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MECHANICAL

Valid To: August 31, 2023

Certificate Number: 1345.02

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

<u>Test</u>	<u>Test Methods</u>
Humidity ¹ (10 % RH to 98 % RH)	MIL-STD-810 Methods 507, 520; MIL-STD-202 Methods 103, 106; MIL-STD-883 Method 1004; RTCA DO-160 Sec. 6.0; ANSI/EIA-364-31; SAE J1211, SAE J1455 Sec. 4.2; Ford WDS 00.00EA-D11-Sec. 4.5.8
Temperature Cycling, Temperature Steady State, Temperature Life ¹ (-70 °C to 300 °C)	MIL-STD-810 Method 501, 502, 520; MIL-STD-202 Method 108; MIL-STD-883 Methods 1005, 1006, 1007, 1008, 1010; IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-30, IEC 60068-2-38; RTCA DO-160 Sec. 5; SAE J1211, SAE J1455 Sec. 4.1; Ford WDS 00.00EA-D11-Sec. 4.5; Toyota TSF 6770G Secs 5.2.2, 5.2.3, 5.2.4, Toyota TSF 6763G Secs 5.2.3, 5.2.4
Thermal Shock ¹ (-70 °C to 200 °C)	MIL-STD-810 Method 503; MIL-STD-202 Method 107; SAE J1455 Sec. 4.1.3.2; ANSI/EIA-364-32
Altitude ¹ Up to 75 000 feet	MIL-STD-810 Methods 500, 520; MIL-STD-202 Method 105; MIL-STD-883 Method 1001; IEC 60068-2-13; RTCA DO-160 Sec. 4.0; SAE J1455 Sec. 4.9
Dust/Sand (Blowing Dust/Sand) (Settling Dust/Sand)	MIL-STD-202 Method 110; RTCA-DO-160 Sec. 12; NEMA 250 Sec. 5.5; SAE J1455 Sec. 4.7
Salt Spray/Salt Fog (Corrosion)	ASTM B117; MIL-STD-810 Method 509; MIL-STD-202 Method 101; MIL-STD-883 Method 1009; IEC 60068-2-11; RTCA DO-160 Sec. 14; SAE J1455 Sec. 4.3; Ford WDS 00.00EA-D11 Sec. 4.7.1

Test

Mechanical Shock¹

Force Rating: 12 000 lbf
Waveforms: Sine, Saw tooth, Trapezoid
Maximum Level: 120 g
Displacement: 2 in Peak-to-Peak

Vibration: Sine¹

Force Rating: 6 000 lbf
Frequency Range: (5 to 2500) Hz
Sine Velocity: 70 in/s
Maximum Level: 120 g
Displacement: 2 in Peak-to-Peak

Vibration: Random¹

Force Rating: 6 000 lbf
Frequency Range: (5 to 2500) Hz
Maximum Level: 120 g
Displacement: 2 in Peak-to-Peak

Vibration: Sine-on-Random

Rain Testing

Test Methods

MIL-STD-810 Method 516; MIL-STD-202, Methods 203, 213; MIL-STD-883 Method 2002; IEC 60068-2-27; RTCA DO-160 Sec. 7; ANSI/EIA-364-27; SAE J1455 Sec. 4.10; AECTP400 Method 403

MIL-STD-810 Methods 514, 520; MIL-STD-202, Methods 201A, 204D; MIL-STD-883 Methods 2005, 2007; IEC 60068-2-6; RTCA DO-160 Sec. 8; MIL-STD-167-1; ANSI/EIA-364-28; SAE J1455 Sec. 4.10.4; Ford WDS 00.00EA-D11 Sec. 4.6.1; Toyota TSF 6770G Sec. 5.2.5; Toyota TSF 6763G Sec. 5.2.5

MIL-STD-810 Method 514, 519, 523; MIL-STD-202 Method 214; MIL-STD-883 Method 2026; IEC 60068-2-64; ANSI/EIA-364-28; RTCA DO-160 Sec. 8; SAE J1455 Sec. 4

RCTA-DO-160 Sec. 8.8.1

UL50 Sec 8.3; MIL-STD-810 Method 506

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



Accredited Laboratory

A2LA has accredited

C & C TECHNOLOGIES, INC.

Apex, NC

for technical competence in the field of

Mechanical 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 16th day of September 2021.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1345.02
Valid to August 31, 2023

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