



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 17025:2005 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 2nd day of October 2017.

A handwritten signature in black ink, appearing to be 'John...', is written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 1345.02
Valid to August 31, 2019



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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

C & C TECHNOLOGIES, INC.
2455 Reliance Ave.
Apex, NC 27539
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MECHANICAL

Valid To: August 31, 2019

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; EIA-364-31B; SAE J1211 Sec.4.2, SAE J1455 Sec. 4.2
Temperature Cycling, Temperature Steady State, Temperature Life ¹ (-70 °C to 350 °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; SAEJ1211 Sec. 4.1, SAE J1455 Sec. 4.1; WDS 00.EA-D11-Sec. 4.5.8; TSF 6770G Secs 5.2.2, 5.2.3, 5.2.5, TSF 6763G Secs 5.2.3, 5.2.5
Thermal Shock ¹ (-100 °C to 200 °C)	MIL-STD-810 Method 503; MIL-STD-202 Method 107; SAE J1455 Sec. 4.1; EIA-364-32C
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; 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; WDS 00.EA-D11 Sec. 4.7.1

Test

Test Methods

Mechanical Shock¹

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

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

Vibration: Sine¹

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

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; EIA-364-28-D; SAE J1455 Sec. 4.10.4; WDS 00.EA-D11 Sec. 4.6.1; TSF 6770G Sec. 5.2.5; TSF 6763G Sec. 5.2.5

Vibration: Random¹

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

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

Vibration: Sine-on-Random

RCTA-DO-160 Sec. 8.8.1

Rain Testing

UL50; 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.

