

## Scope of Accreditation For Garwood Laboratories, Inc.

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In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **Garwood Laboratories, Inc.** to perform the following tests:

Accreditation granted through: **July 28, 2012**

### Testing – Environmental Simulation

Technology	Range, when necessary	Methods Used	Product Types	Remarks
High / Low Temperature	-184C to +200C	MIL-STD-202 Method 108 MIL-STD-810 Method 501, 502 MIL-STD-883 Method 1005, 1007 1008, 1010 MIL-STD-1344 Method 1003, 1005 RTCA DO160 Section 4.5, 5		
Thermal Shock	-65C to +170C	MIL-STD-202 Method 107 (air/air only) MIL-STD-810 Method 503		
Salt Spray (Fog)	-----	ASTM B117 MIL-STD-202 Method 101 MIL-STD-883 Method 1009 MIL-STD-810 Method 509 MIL-STD-1344 Method 1001 RTCA DO160 Section 14		
Humidity	5%-95% RH	MIL-STD 202 Method 103 MIL-STD 810 Method 507 RTCA DO160 Section 6		
Moisture Resistance	+85C 95%+ RH	MIL-STD 202 Method 106 MIL-STD-883 Method 1004		
Rain / Waterproofness	-----	MIL-STD-810 Method 506 (drip only) RTCA DO-160 Section 10.3.1, 10.3.2 (Rev E only)		



Technology	Range, when necessary	Methods Used	Product Types	Remarks
Altitude / Temperature	-45C 90K	MIL-STD 202 Method 105 MIL-STD 810 Method 500 (procedures I, II, III only) MIL-STD-883 Method 1001 RTCA DO160 Section 4		

**Testing - Vibration and Shock**

Technology	Range, when necessary	Methods Used	Product Types	Remarks
Classic Vibration (Sine)	100 g's 4-3K Hz	MIL-STD-167-1 Type I MIL-STD 202 Method 201, 204 MIL-STD 883 Method 2005, 2007 RTCA DO-160 Section 8 (Cat S, H, & Z)		
Random Vibration & Combinations	85g RMS 4-3K Hz	MIL-STD 202 Method 201, 214 MIL-STD 810 Method 514, 520 MIL-STD 883 Method 1007, 2026 MIL-STD 1344 Method 2005 RTCA DO160 Section 8		
Package Shipment Testing	-----	ISTA Project 1, Methods 1A, 1B, 1C, 1D, 1E, 2A, 2B, 2C, 3D, 3E, 3F, 3G, F, 1G,3G		Except incline / horizontal shock
Shock	500 g's Short Duration	MIL-STD 202 Method 213 (conditions A thru C, and G thru K only) MIL-STD 810 Method 516 (procedures I through VI only) MIL-STD 810 Method 519 MIL-STD 1344 Method 2004 RTCA DO160 Section 7.2, 7.3		

Notes:

- 1) This laboratory offers commercial testing service.



Approval: \_\_\_\_\_

Date: July 6, 2011

R. Douglas Leonard  
Chief Technical Officer

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