



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Washington Laboratories, Ltd.

7560 Lindbergh Drive

Gaithersburg, Maryland 20879

And satellite site as listed on the scope

has been assessed by ANAB

and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-1448

Certificate Number


ANAB Approval

Certificate Valid: 07/02/2018-06/30/2020
Version No. 006 Issued: 07/02/2018



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Washington Laboratories, Ltd.

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TESTING

Valid to: June 30, 2020

Certificate Number: AT-1448

Testing performed in support of FCC DoC and certification approval procedures

Table with 4 columns: Type of Device Examples, Scope of Accreditation, Supporting FCC Guidance, and Comments. It lists various FCC parts (15, 18) and equipment types (radiators, medical equipment, UPCS, U-NII, UWB, BPL, White Space Devices) and their corresponding accreditation standards (ANSI C63.4-2014, FCC MP-5, ANSI C63.10-2013, ANSI C63.17-2013) and supporting FCC guidance (KDB Publication 789033).



ANSI-ASQ National Accreditation Board

Testing performed in support of FCC DoC and certification approval procedures

Type of Device Examples	Scope of Accreditation	Supporting FCC Guidance	Comments
Commercial Mobile Services (FCC Licensed Radio Service Equipment) Part 22 (cellular) Part 24 Part 25 (below 3 GHz) Part 27	ANSI/TIA-603-E [1] or TIA-102.CAAA-E-2016 [1] or ANSI C63.26-2015	KDB Publication 971168	-
General Mobile Radio Services (FCC Licensed Radio Service Equipment) Part 22 (non-cellular) Part 90 (non-microwave) Part 95 Part 97 (below 3 GHz) Part 101 (below 3 GHz)	ANSI/TIA-603-E [1] or TIA-102.CAAA-E-2016 [1] or ANSI C63.26-2015	-	-
Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) Part 96	ANSI/TIA-603-E [1] or TIA-102.CAAA-E-2016 [1] or ANSI C63.26-2015	KDB Publication 971168 KDB Publication 940660	-
Maritime and Aviation Radio Services (FCC Licensed Radio Service Equipment) Part 80 Part 87	ANSI/TIA-603-E [1] or ANSI C63.26-2015	-	-
Microwave and Millimeter Bands Radio Services (FCC Licensed Radio Service Equipment) Part 25 Part 30 Part 74 Part 90 (M, DSRC, Y, Z) Part 95 (M and L) Part 101	ANSI/TIA-603-E [1] or TIA-102.CAAA-E-2016 [1] or ANSI C63.26-2015	KDB Publication 653005	-
Broadcast Radio Services (FCC Licensed Radio Service Equipment) Part 73 Part 74 (below 3 GHz)	ANSI/TIA-603-E [1] or TIA-102.CAAA-E-2016 [1] or ANSI C63.26-2015	-	-
RF Exposure Devices subject to SAR requirements	IEEE Std 1528™-2013	KDB Publication 865664 KDB Publication 447498	-



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Type of Device Examples	Scope of Accreditation	Supporting FCC Guidance	Comments
Signal Boosters (Part 20) Wideband Consumer signal boosters Provider-specific signal boosters Industrial signal boosters Signal Boosters (Section 90.219)	ANSI C63.26-2015	KDB Publication 935210 D03, D04, and D05 [3]	-

[1] ANSI/TIA-603-D-2010 or ANSI/TIA-102.CAAA-D-2013 may be used until March of 2020.

[2] ANSI C63.19-2007, *American National Standard for Methods of Measurement Compatibility Between Wireless Communications Devices and Hearing Aids*, may be used for HAC testing until August 28, 2018, per FCC 17-135.

[3] For Signal Boosters (Part 20) accreditation is required for Commercial Mobile Services (FCC Licensed Radio Services Equipment) and for Signal Booster (Section 90.219) accreditation is required for General Mobile Radio Services (FCC Licensed Radio Service Equipment).

Electromagnetic Compatibility

Field of Test	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used
Emissions Standards	Radiated and Conducted Emissions (40 Hz to 30 GHz)	FCC Part 15 B/C/D/E using, ANSI C63.4 (2009), ANSI C63.4 (2014) & ANSI C63.17 (2013); ANSI C63.10 (2014) FCC Part 18 using FCC OST/MP-05 (1986); FCC Report and Order ET Docket 98-153(FCC 02-48); Procedures IDB 20040420-001; Procedures in IDB 20021108-001 with FCC Method 47 CFR Part 15, Subpart F: DA 00-705 (March 30, 2000) and KDB Pub. No.558074, KDB Pub. No. 200433; DA 02-2138; CISPR 16-1-4 2007 +A1 2007; CISPR 16-1-4:2010 CISPR 22 (1997) +A1, (2000) + A2, (2002), CISPR 22 (2005); CISPR 22 (2008) EN 55022 (1998) +A1, (2000) + A2, (2003), EN 55022 (2006), +A1 (2007); EN 55022:2010 EN 55022:2010 + AC:2011 ; EN55032:2015; AS/NZS CISPR 22; CAN/CSA-CEI/IEC CISPR 22; CISPR 32:2015; CNS 13438(up to 6GHz); KN 32 with (RRA Public Notification 2015-27, Dec 3, 2015; RRA Public Notification 2015-27, Dec 3, 2015); CISPR 11 (1997)+A1, (1999)+A2, (2002); CISPR 11: 2004-06;CISPR 11:2009/A1:2010; EN 55011 (1998)+A1, (1999)+A2, (2002); EN 55011:2009 / A1:2010; EN 55011:2016 AS/NZS CISPR 11; CNS 13803 KN 11 with RRA Public Notification 2015-27, Dec 3, 2015 Technical Requirements for Electromagnetic Interference (RRA Public Notification 2014-08, June 23, 2014); RRA Announce 2015-110, Dec 3, 2015



Electromagnetic Compatibility

Field of Test	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used
Emissions Standards	Harmonics Emissions	IEC 61000-3-2 (2000) +A1, (2001) +A2, (2004), IEC 61000-3-2 (2005); IEC 61000-3-2 Ed 4.0: 2014; EN 61000-3-2 (2000) +A2, (2005), + A1:2008; EN 61000-3-2:2006 + A1:2009 + A2:2009; EN 61000-3-2 (2014); AS/NZS 61000-3-2; KN 61000-3-2
	Flicker Emissions	IEC 61000-3-3 (1994)+A1, (2001)+A2, (2005), 2008, 2013; EN 61000-3-3 (1995)+A1, (2001)+A2, (2005), 2008, 2013; AS/NZS 61000-3-3; KN 61000-3-3
Emissions Standards	Product Specific Emissions	IEC 61000-6-3; EN 61000-6-3; AS/NZS 61000.6.3; IEC 61000-6-4; EN 61000-6-4; AS/NZS 61000.6.4; CISPR 14-1 (2000) +A1, (2001) +A2, (2002), (excluding measurement of clicks); CISPR 14-1: 2005-11(excluding measurement of clicks); EN 55014-1 (2000)+A1, (2001)+A2, (2002), (excluding measurement of clicks); AS/NZS CISPR 14-1 (excluding measurement of clicks); KN 14-1; KN61000-6-3; KN61000-6-4; RRA Public Notification 2015-27, Dec 3, 2015; RRA Announce 2015-110, Dec 3, 2015; CNS 13783-1 (2001)+A12004, (excluding measurement of clicks); CISPR 25 Ed. 3.0 (2008-03), sections 6.2, 6.3 and 6.4 only; CISPR 25: (2016), sections 6.3, 6.4 and 6.5 only
Immunity Standards	ESD Immunity Testing	IEC 61000-4-2 (1995)+A1, (1997)+A2, (1998); IEC 61000-4-2, Ed. 2.0 (2008-12) EN 61000-4-2 (1995)+A1,(1999)+A2, (2001), 2009; KN 61000-4-2 with (RRA Announce 2014-38 June 23, 2014)
	RF Immunity Radiated Immunity (Up to 6.0 GHz, 20 V/m)	IEC 61000-4-3 (1995), A1(1998), A2(2000); IEC 61000-4-3 (2002)+A1, (2002); IEC 61000-4-3 (2006); IEC 61000-4-3, Ed. 3.0 (2006-02) + A1 (2007) + A2 (2010); EN 61000-4-3 (1996), A1(1998), A2 (2001); EN 61000-4-3 (2002)+A1, (2003); EN 61000-4-3 (2006) +A1 (2008) + A2 (2010) KN 61000-4-3 with (RRA Announce 2014-38 June 23, 2014)



Electromagnetic Compatibility

Field of Test	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used
Immunity Standards	EFT	IEC 61000-4-4 (1995) +A1, (2000)+A2, (2001); IEC 61000-4-4 (2004); IEC 61000-4-4, Ed. 2.0 + A1 (2010); IEC 61000-4-4 Ed. 2.1 (2011); IEC 61000-4-4 Ed.3.0 (2012) EN 61000-4-4 (1995) +A1, (2001)+A2, (2002); EN 61000-4-4 (2004) +A1:2010; EN 61000-4-4:2012; KN 61000-4-4 with (RRA Announce 2014-38 June 23, 2014)
	Surge	IEC 61000-4-5 (1995)+A1, (2000), IEC 61000-4-5 (2005); + Corr 1 (2009); IEC 61000-4-5; Ed 3.0 (2014) EN 61000-4-5 (1995)+A1, (2001), EN 61000-4-5 (2006) EN 61000-4-5 (2014) KN 61000-4-5 with (RRA Announce 2014-38 June 23, 2014)
	Conducted Immunity	IEC 61000-4-6 (1996) +A1, (2001), IEC 61000-4-6 (2003) +A1, (2004) +A2, (2006); IEC 61000-4-6 Ed. 3.0 (2008); IEC 61000-4-6 Ed. 4.0 (2013) EN 61000-4-6 (1996) +A1, (2001), EN 61000-4-6 (2007); EN 61000-4-6 (2009) ; EN 61000-4-6 (2014) KN 61000-4-6 with (RRA Announce 2014-38 June 23, 2014)
	Low Frequency Magnetic Immunity	IEC 61000-4-8 (1993)+A1, (2000); IEC 61000-4-8 (2009) EN 61000-4-8 (1994)+A1, (2001); EN 61000-4-8:2010 KN 61000-4-8 with(RRA Announce 2014-38 June 23, 2014)
	Pulse Magnetic	IEC 61000-4-9 (1993)+A1, (2000); IEC 61000-4-9, Ed 1.1 (2001-03); IEC 61000-4-9, Ed 2.0 (2016) EN 610000-4-9 (1993)+A1, (2001); EN 610000-4-9: (2016); KN 61000-4-9 with(RRA Announce 2014-38 June 23, 2014)
	Damped Oscillatory Magnetic	IEC 61000-4-10 (1993)+A1, (2000); IEC 61000-4-10, Ed 1.1 (2001-03); IEC 61000-4-10, Ed 2.0 (2016) EN 61000-4-10 (1993)+A1, (2001); EN 61000-4-10: (2017)
	Power Dips and Interrupts	IEC 61000-4-11 (1993)+A1, (2000); (2004); IEC 61000-4-11: (2004), +A1(2017) EN 61000-4-11 (1993)+A1, (2001); (2004) KN 61000-4-11with (RRA Announce 2014-38 June 23, 2014)



Electromagnetic Compatibility

Field of Test	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used
Immunity Standards	Ring Wave Immunity	IEC 61000-4-12 (1995) +A1, (2000), IEC 61000-4-12 (2006); EN 61000-4-12 (1995) +A1, (2001), EN 61000-4-12 (2006)
	Harmonics and Inter-harmonics	IEC 61000-4-13 Ed. 1.1 (2002) + A1 (2009); IEC 61000-4-13 Ed. 1.2 (2015) EN 61000-4-13 (2002) +A1 (2009) +A2(2016)
	Immunity, Common Mode Disturbances	IEC 61000-4-16, Edition 1.1 (2002-07), IEC 61000-4-16, ed. 1.2 (2011-05), IEC 61000-4-16, Ed 2.0 (2015); EN 61000-4-16 (2016)
	Immunity, Ripple on D.C. input power	IEC 61000-4-17:1999+A1:2001+A2:2008; EN 61000-4-17:1999, +A2(2009)
	Damped oscillatory wave immunity test	IEC 61000-4-18 ed1.0 (2006); IEC 61000-4-18 Ed1.1 (2011); EN 61000-4-18 (2007)
	Immunity, Power Frequency Variation I<16A	IEC 61000-4-28:1999, +A1(2001), +A2(2009) EN 61000-4-28: (2000), +A2(2009)
	Immunity, Voltage dips, short interruptions and voltage variations on d.c. input power port	IEC 61000-4-29:2000 EN 61000-4-29:2001
	Product Specific Immunity	CISPR 24 (1997)+A1, (2001)+A2, (2002); CISPR 24 ed2.0 (2010-08) EN55024 (1998)+A1, (2001)+A2, (2003); AS/NZS CISPR 24:2002 +A1 (2009); KN 35 with RRA Public Notification 2015-27, Dec 3, 2015; RRA Announce 2015-110, Dec 3, 2015 EN 61000-6-1; EN 61000-6-2; AS/NZS 4254.1; EN 55103-2; EN 50130-4; ISO 7637-2 KN 61000-6-1; KN 61000-6-2
Combined Emissions / Immunity Generic / Specific Standards	IEC 60601-1-2; EN 60601-1-2; KN 60101-1-2 with (RRA Public Notification 2015-27, Dec 3, 2015); RRA Announce 2015-110, Dec 3, 2015; IEC 61326; EN 61326 IEC 60533	
Emissions & Immunity Guidance Documents	Combined Emissions / Immunity Generic Reference Regulatory Guide 1.180 EPRI 102323 Rev 2, EPRI 102323 Rev 3, EPRI 102323 Rev 4; Technical Requirements for Telecommunications Terminal Equipment (RRA Public Notification 2016-12, Jun 20, 2016); Technical Requirements for Electromagnetic Compatibility (RRA Public Notification 2015-27, Dec 3, 2015); Test Methods for Electromagnetic Compatibility (RRA Announce 2015-110, Dec 3, 2015);	



Radio Testing

Field of Test	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used
Radio Testing	Australia/New Zealand	AS/NZS 4268, AS/NZS 4295, AS/NZS 4365
Radio Testing	Europe	ETSI EN 300 220-1; ETSI EN 300 328; ETSI EN 300 330-2; ETSI EN 300 390-2; ETSI EN 300 440-2; ETSI EN 301 489-1; ETSI EN 301 489-3; ETSI EN 301 489-4; ETSI EN 301 489-5; ETSI EN 301 489-7; ETSI EN 301 489-8; ETSI EN 301 489-12; ETSI EN 301 489-15; ETSI EN 301 489-17; ETSI EN 300 826; ETSI EN 302 208-1; ETSI EN 302 326-1; ETSI EN 301-489-20; ETSI EN 301 428; ETSI EN 301 441; ETSI EN 301 442; ETSI EN 301-443; ETSI EN 301 459; ETSI EN 301 893; ETSI EN 302 208-2; ETSI EN 300-219-2; ETSI EN 300-219-1; ETSI EN 301 681; ETSI EN 301 426 (sections 4.2.1 and 4.2.2 only); ETSI EN 301 721 (sections 4.2.1, 4.2.2, 4.2.3 and 4.2.4)
Radio Testing	Korea	KN 301- 489-01; KN 301- 489-07; KN 301- 489-17; Technical Requirements on Radio Equipment (MSIP Public Notification 2016- 47, Apr 22, 2016); Unlicensed Radio Equipment Established Without Notice (MSIP Public Notification 2016-48, Apr 22, 2016); Technical Requirements for Radio Equipment for Telecommunication Services (RRA Public Notification 2015-29, Jan 5, 2016); Technical Requirements of other Radio services for Simple Radio station, Space Station and Earth Station (RRA Public Notification 2015-30, Dec 31, 2015); Technical Requirements of Radio Wave Application (RRA Public Notification 2016-3, Apr 4, 2016) Technical Requirements for the Human Protection against Electromagnetic Waves (MSIP Public Notification 2015-18, Mar 25, 2015); Technical Requirements for Measurement of Electromagnetic Field Strength (RRA Public Notification 2014-2, Feb 4, 2014), (MSIP Public Notification 2016-66, Jun 23, 2016) Conformity Assessment Procedure of Radio Equipment (RRA Announce 2015- 135, Jan 20, 2016); KS X 3123, KS X 3124, KS X 3125. KS X 3126 Technical Requirements for Electromagnetic Compatibility (RRA Public Notification 2015-27, Dec 3, 2015); Test Methods for Electromagnetic Compatibility (RRA Announce 2015-110, Dec 3, 2015); Technical Requirements for Telecommunications Terminal Equipment (RRA Public Notification 2016-12, Jun 20, 2016)



Radio Testing

Field of Test	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used
Radio Testing	Singapore	IDA TS: EMC, IDA TS GMPCS ITU-R M.1343-1
	USA	TIA/EIA 603-E using 47 CFR Parts 2, (cellular and non-cellular), 4, 25, 26, 27, 74, 80, 87, 90, 95, 97 and 101, ANSI C63.26 (2015)
	Canada	ICES-003, ICES-004, ICES-005 RSS-Gen; RSS-102 (<i>excluding SAR</i>); RSS-111; RSS-112; RSS-117; RSS-119; RSS-123; RSS-125; RSS-127; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-137; RSS-139; RSS-141; RSS-142; RSS-170; RSS-181; RSS-182; RSS-191; RSS-192; RSS-194; RSS-195; RSS-210; RSS-211; RSS-213; RSS-215; RSS-216; RSS-220; RSS-236; RSS-238; RSS-243; RSS-244; RSS-247; RSS-251; RSS-287; RSS-288 RSS-310
Military EMC	Conducted Emissions	MIL-STD-461E, F, G: Methods CE101, CE102, CE106; MIL-STD-462D: Methods CE101, CE102, CE106; MIL-STD-462: Methods CE01, CE02, CE03, CE06
	Radiated Emissions	MIL-STD-461E, F, G: Methods RE101, RE102 and RE103; MIL-STD-462D: Methods RE101, RE102 and RE 103; MIL-STD-462: Methods RE01, RE02 and RE03
	Conducted Susceptibility	MIL-STD-461E, F, G: Methods CS101, CS 103; CS 104; CS 105, CS109, CS114, CS115, CS116; MIL-STD-462D: Methods CS101, CS103, CS114, CS115, CS116; CS118; MIL-STD-462: Methods, CS01, CS02, CS03, CS04, CS05, CS06, CS08
	Radiated Susceptibility	MIL-STD-461E, F, G: Methods RS101, RS103; MIL-STD-461/462D: Methods RS101, RS103
	Vehicle Power	MIL-STD-1275 (A, B, C, D, E)



Radio Testing

Field of Test	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used
	Aircraft Power	MIL-STD-704 (A, B, C, D, F, G)
Military EMC	Ship Power	MIL-STD-1399 S300 (A, B); MIL-STD-1399 S390
	Magnetics(Shipboard)	DOD-STD-1399 S-070
Airborne Equipment	Magnetic Effect	RTCA DO-160E, F, G: Section 15
	Power Input	RTCA DO-160E, F, G: Section 16
	Voltage Spikes	RTCA DO-160E, F, G: Section 17
	Audio Frequency Conducted Susceptibility	RTCA DO-160E, F, G: Section 18
	Induced Signal Susceptibility	RTCA DO-160E, F, G: Section 19
	Conducted Susceptibility and Radiated Susceptibility	RTCA DO-160E, F, G: Section 20.4 Section 20.5
	Conducted and Radiated Emissions	RTCA DO-160E, F, G: Section 21.4 Section 21.5
	Lighting Induced Transient Susceptibility	RTCA DO-160E, F, G: Section 22
	ESD	RTCA DO-160E, F, G: Section 25



Services performed at satellite location

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Electromagnetic Compatibility

Field of Test	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used
Product Safety	ITE	IEC 60950-1 (2005); IEC60950-1:2005+A1:2009+A2 :2013; IEC 60950 Ed 2 (2005) +A1+A2+A3+A4+A11; IEC 60950 Ed 2.2 (2013); EN 60950-1 (2006); EN60950-1:2006 + A11:2009; EN60950-1:2006 + A1:2010; EN 60950-1:2006+A11:2009+A1:2010+A12:2011 AS/NZS 60950-1 (2003); AS/NZS 60950.1 (2003) + A1 (2006) + A2 (2008) + A3 (2008) AS/NZS 60950.1 :2011; AS/NZS 60950.1: 2015; ANSI/UL 60950-1 (2007); ANSI/UL 60950-1 (2003) and CAN/CSA 22.2 No. 60950-1 CAN/CSA C22.2 60950-1-07 (2007) CAN/CSA C22.2 No. 60950-1-07 + A11:2009 + A1:2009 + A12:2011; CAN/CSA C22.2 60950-1-07 (R2012) EN 62368-1:2014/AC:2015; IEC 62368-1 Ed2-2014; CSA/UL 62368-1:2014
	Measurement Control and Lab Use	IEC 61010-1 (2001); IEC61010-1:2010 EN 61010-1 (2001); EN61010-1:2010 UL61010-1 (2008); UL61010-1 (2012); CAN/CSAC22.2 No.61010-1 (2004); CAN/CSA C22.2 No. 61010-1-2012
	Medical Equipment	IEC 60601-1:1988+ A1:1991 + A2:1995; IEC60601-1:2005+A1:2012 IEC 60601-1-11:2010; IEC 60601-1-11:2015 IEC 60601-2-10:1987 +A1:2001; IEC 60601-2-10: Ed 2.1: 2016 IEC 60601-2-40:1998 EN 60601-1: 1990 +A1:1993 + A2:1995; EN60601-1:2006+A1:2013; EN 60601-1-11:2010 ; EN 60601-1-11:2015; EN 60601-2-10 :2000 + A1:2001 ; EN 60601-2-10: 2015; EN 60601-2-40 :1998; UL60601-1 (2006); AAMI ES60601-1:2010
	Machinery	IEC 60204-1:2005 +A1:2008 ; IEC 60204-1Ed 5.1: 2009; EN60204-1:2006 + A1:2009



Electromagnetic Compatibility

Field of Test	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used
Product Safety	Transmitters	EN 60215:1989 + A2:1994; IEC 60215:1987 + A2:1993; IEC 60215 Ed 4.0: 2016
	Household & Similar Electronics	EN 60335-1:2002 +A14:2010; EN 60335-1 (2012) +A11: 2014 IEC 60335-1:2001 +A2:2006; IEC 60335-1 Ed. 5.0 (2010); IEC 60335-1 Ed. 5.2 (2016); UL60335-1 (2006); UL60335-1 (2011); EN 60335-2-2:2010; IEC 60335-2-2:2009; IEC 60335-2-2 2012-11; IEC 60335-2-2 Ed 6.2: 2016 EN 60335-2-75:2004/A12:2010; IEC 60335-2-75:2012-12; IEC 60335-2-75 Ed 3.1: 2015; EN 60335-2-82:2003/A1:2008; IEC 60335-2-82:2002 + A1:2008; IEC 60335-2-82 Ed 2.2: 2015
	Audio, Video and Similar Electronic App.	EN60065:2002 +A2:2010 IEC60065:2001 +A2:2010; IEC 60065 Ed 8.0: 2014; UL60065 (2004); UL 60065: 2015
	General (Enclosures)	IEC 60529 Ed 2.2: 2013 Section 13.2 & Subsections 14.2.1, 14.2.2, 14.2.7, 14.2.8 UL94 Ed 6.0: 2013; EN 60529: 1992 +A2: 2013 Section 13.2 & Subsections 14.2.1, 14.2.2, 14.2.7, 14.2.8

Environmental

Field of Test	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used
Environmental	Humidity	MIL-STD-810, Method 507.4; 507.5; 507.6
	Humidity	MIL-STD-810, Method 507.4; 507.5; 507.6
	Humidity	MIL-STD-810, Method 507.4; 507.5; 507.6
	Humidity	MIL-STD-810, Method 507.4; 507.5; 507.6
	Humidity	MIL-STD-810, Method 507.4; 507.5; 507.6
	Humidity	MIL-STD-810, Method 507.4; 507.5; 507.6
	Humidity	MIL-STD-810, Method 507.4; 507.5; 507.6
	Humidity	MIL-STD-810, Method 507.4; 507.5; 506.6
	Salt Fog	MIL-STD-810: Method 509
	Immersion	MIL-STD-810, Method 512.4; 512.5; 512.6



Environmental

Field of Test	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used
Environmental	Vibration	MIL-STD-810: Method 514.5, 514.6; 514.7
	Shock	MIL-STD-810: Method 516.5; 516.6; 516.7
	Temperature and Altitude	RTCA DO-160E, F, G: Section 4
	Temperature Variation	RTCA DO-160E, F, G: Section 5
	Humidity	RTCA DO-160E, F, G: Section 6
	Operational Shocks and Crash Safety	RTCA DO-160E, F, G: Section 7
	Vibration	RTCA DO-160E, F, G: Section 8
	Waterproofness	RTCA DO-160E, F, G: Section 10
	Fluids Susceptibility	RTCA DO-160E, F, G: Section 11
	Salt Fog	RTCA DO-160E, F, G: Section 14
	Flammability	RTCA DO-160E, F, G: Section 26
	Cold	IEC60068-2-1
	Dry Heat	IEC60068-2-2
	Steady State Damp Heat	IEC60068-2-3
	Sinusoidal Vibration	IEC60068-2-6
	Salt Mist	IEC60068-2-11
	Low Air Pressure	IEC60068-2-13
	Change of Temperature	IEC60068-2-14
	Shock	IEC60068-2-27
	Bump	IEC60068-2-29
	Cyclic Damp Heat	IEC60068-2-30
	Drop and Topple	IEC60068-2-31
	Free Fall	IEC60068-2-32



Environmental

Field of Test	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used
	Cyclic Composite Temperature and Humidity	IEC60068-2-38
	Combined Cold / Low Air Pressure	IEC60068-2-40
Environmental	Combined Dry Heat / Low Air Pressure	IEC60068-2-41
	Immersion in Cleaning Solvents	IEC60068-2-45
	Combined Cold / Vibration	IEC60068-2-50
	Combined Dry Heat / Vibration	IEC60068-2-51
	Cyclic Salt Mist	IEC60068-2-52
	Test Cb: Damp Heat Steady State	IEC60068-2-56
	Test Fh: Broadband Random Vibration	IEC60068-2-64
	Test Xc: Fluid Contamination	IEC60068-2-74
	Test Cab: Damp heat, steady state	IEC60068-2-78

Note:

1. This scope of accreditation covers Customer Site Testing.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1448


Vice President