



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid To: September 30, 2022

Certificate Number: 4323.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with A2LA's EPA ENERGY STAR[®] Accreditation Program^{1,2} requirements), accreditation is granted to this laboratory to perform the following EMC, Radio, and Telecommunication tests:

Test Technology:

Emissions

Radiated and Conducted

(3m semi-anechoic chambers)

Test Method(s)^{1,2,3}:

ANSI C63.4:2014;
ANSI C63.10:2013;
ANSI C63.26:2015;
ANSI 63.17:2013;
FCC 47 CFR Parts 15B (using ANSI C63.4:2014) and 18 (using FCC MP-5:1986);
FCC OST/MP-5 (1986);
EN 55011; IEC/CISPR 11; AS/NZS CISPR 11;
EN 55014-1; IEC/CISPR 14-1; AS/NZS CISPR 14.1
(excluding disturbance power measurements (30 MHz to 300 MHz));

CNS 13439; CNS 13803; CNS 14115;
CNS 13438 (up to 6GHz); CNS 13783-1;

EN 55015; IEC CISPR 15; AS/NZS CISPR 15;
EN 61547; IEC 61547;
EN 55032; IEC/CISPR 32; AS/NZS CISPR 32; GB 9254;
VCCI V-3; VCCI-CISPR 32;
EN 50130-4;

ICES-003 Issue 6 (April 2019);
ICES-005 Issue 5 (Dec 2018);

IDA TS EMC, Issue 1, Rev. 1 (March 2000)

Harmonics

EN 61000-3-2; IEC 61000-3-2; AS/NZS 61000.3.2; GB 17625.1

Flicker

EN 61000-3-3; IEC 61000-3-3; AS/NZS 61000.3.3; GB 17625.2

Immunity

Electrostatic Discharge (ESD)

EN 61000-4-2; IEC 61000-4-2

Radiated Immunity

EN 61000-4-3; IEC 61000-4-3

<u>Test Technology:</u>	<u>Test Method(s)^{1,2,3:}</u>
Electrical Fast Transient (EFT) / Burst	EN 61000-4-4; IEC 61000-4-4
Surge	EN 61000-4-5; IEC 61000-4-5
Conducted Immunity	EN 61000-4-6; IEC 61000-4-6
Magnetic Field Immunity	EN 61000-4-8; IEC 61000-4-8
Voltage Dips, Short Interrupts, and Variations	EN 61000-4-11; IEC 61000-4-11
Generic and Product Family Standards	EN 61000-6-1; IEC 61000-6-1; EN 61000-6-2; IEC 61000-6-2; EN 61000-6-3; IEC 61000-6-3; AS/NZS 61000-6.3; EN 61000-6-4; IEC 61000-6-4; AS/NZS 61000.6.4; EN 61326-1; IEC 61326-1; EN 61326-2-1; IEC 61326-2-1; EN 61326-2-2; IEC 61326-2-2; EN 61326-2-3; IEC 61326-2-3; EN 61326-2-4; IEC 61326-2-4; EN 61326-2-5; IEC 61326-2-5; EN 61326-2-6; IEC 61326-2-6; EN 55014-2; IEC/CISPR 14-2; AS/NZS CISPR 14.2; EN 55035; CISPR 35
Specific Absorption Rate (SAR)	EN 50360; EN 50566; EN 62209-1; IEC 62209-1; EN 62209-2; IEC 62209-2; RSS-102, Issue 5 (March 2015); MIC Article 14-2; IEEE 1528:2013
RF Exposure	EN 50364; EN 50421; EN 50383; EN 50385; EN 50400; EN 50663; IEC 62233; EN 62311; IEC 62311; EN 62479; EN 62493; IEC 62493; IEEE Std C95.3; IEEE Std C95.1; EN 50384; RSS-102, Issue 5 (March 2015)
Radio	
ACA	ACA Standard 2013 Radio communications (Electromagnetic Radiation - Human Exposure) Standard 2013

Test Technology:

AS/NZS

Test Method(s)^{1,2,3:}

AS/NZS 4268;
AS/NZS 4295;
AS/NZS 4768;
AS/NZS 4771;
AS/CA S042.1;
AS/ACIF S042.3;
AS/CA S042.4;
AS/NZS 2772.1;
AS/NZS 2772.2

Europe

ETSI EN 300 086;
ETSI EN 300 113;
ETSI EN 300 219;
ETSI EN300 220-1; -2; -3-1; -3-2; -4;
ETSI EN 300 296;
ETSI EN 300 328;
ETSI EN 300 330;
ETSI EN 300 373-1;
ETSI EN 300 390;
ETSI EN 300 422-1; -2; -3; -4;
ETSI EN 300 440;
ETSI EN 301 166;
ETSI EN 301 178;
ETSI EN 301 357;
ETSI EN 301 406;
ETSI EN 301 489-1;-3;-5;-6;-9;-17;-19;-23;-34;-50;
ETSI EN 301 502;
ETSI EN 301 511;
ETSI EN 301 526;
ETSI EN 301 783;
ETSI EN 301 893;
ETSI EN 301 908-1;-2;-3;-8;-9;-10;-11;-12;-13;-14;-15;-16;-17;-18;-19;-20;-21;-22;
ETSI EN 302 208; ETSI EN 302 264;
ETSI EN 302 567;
ETSI EN 302 729;
ETSI EN 303 345;
ETSI EN 303 413;
ETSI EN 303 417;
ETSI EN 303 609

HKCA

HKTA 1033 ISSUE 6;
HKTA 1034 ISSUE 3;
HKTA 1035 ISSUE 6;
HKTA 1039 ISSUE 4;
HKTA 1048 ISSUE 2;
HKTA 1061 ISSUE 1

Japan

MIC Article 2-1 Item (8);
MIC Article 2-1 Item (13);
MIC Article 2-1 Item (19);



Test Technology:Japan (*cont.*)**Test Method(s)^{1,2,3}:**

MIC Article 2-1 Item (19)-2;
MIC Article 2-1 Item (19)-3;
MIC Article 2-1 Item (19)-3-2;
MIC Article 2-1 Item (19)-11

Canada

RSS-112, Issue 1 (February 2008);
RSS-119, Issue 12 (May 2015);
RSS-123, Issue 4, (August 2019);
RSS-130, Issue 2 (February 2019);
RSS-131, Issue 3 (January 2017 Updated May 2017);
RSS-132, Issue 3 (January 2013);
RSS-133, Issue 6 (January 2013, Updated/Amendment January 2018);
RSS-134, Issue 2 (February 5, 2016);
RSS-139, Issue 3 (July 2015);
RSS-199, Issue 3 (December 2016);
RSS-210, Issue 10 (December 2019);
RSS-213, Issue 3 (March 2015);
RSS-215, Issue 2 (June 2009);
RSS-216, Issue 2 (January 20, 2016);
RSS-247, Issue 2 (February 2017);
RSS-310, Issue 5 (January 2020);
RSS-Gen, Issue 5 (Amendment 1 March 2019);
RSS-102, Issue 5 (March 2015) (SAR and RF Exposure)

Singapore (IMDA)

IDA TS CMT Issue 1;
IDA TS SRD Issue 1 Rev 7;
IMDA TS CBS Issue 1;
IMDA TS CMT Issue 1

Taiwan

LP0002;
PLMN04;
PLMN05;
PLMN06;
PLMN08;
LP0001;
PLMN09;
PLMN10

FCC/US

TIA/EIA 603-D (2010);
ANSI/TIA 603-D (2010);
TIA/EIA 603-E (2016);
ANSI/TIA 603-E (2016);
TIA-102.CAAA-E;
TIA-102.CAAA-D;
TIA-470.210:2010;

47 CFR FCC Part 15/C/D/E (with DFS)/E (without DFS)/F, 18, 20, 22, 24, 25,
27, 73, 74, 80, 87, 90, 95, 97, 101

Test Technology:
ENERGY STAR
Lighting Products

Test Method(s)^{1,2,3:}
ENERGY STAR Test Method for Lamps and Luminaries
- Start Time (October 2017);
ENERGY STAR Test Method for Lamps and Luminaries
- Run-up Time (September 2015);
ENERGY STAR Test Method for Lamps and Luminaries
- Noise (September 2015);
ENERGY STAR Elevated Temperature Light Output Ratio
Test Method (September 2015);
ENERGY STAR Ambient Temperature Life Testing Test Method
(September 2015);
ENERGY STAR Elevated Temperature Life Testing Test Method
(September 2015);
ENERGY STAR Method of Measurement for Light Source
Flicker

Measurement of Standby
Power and Power
Consumption

IEC 62301 Edition 2.0 2011-01

Lighting Testing
Color Measurements

IES LM-79 (2008) Section 12;
ANSI/IES LM-79-19 Section 9;
IES LM-58 (1994, 2013);
IES LM-82 (2012);
IES LM-85 (2014);
IES LM-86 (2015);
IES TM-30 (2015, 2018);
CIE Pub. 13.2 (1974);
CIE Pub. 13.3 (1995);
CIE Pub. 15 (2004, 2018)

Electrical Measurements

IES LM-9 (2009);
IES LM-45 (2009,2015);
IES LM-51 (2013);
IES LM-66 (2014);
IES LM-82 (2012);
IES LM-85 (2014);
NEMA SSL 7A-2013;
NEMA SSL 7A-2015

Life Testing / Maintenance

IES LM-40 (2010);
IES LM-47 (2012);
IES LM-49 (2012);
IES LM-54 (2012);
IES LM-65 (2014);
IES LM-80 (2008, 2015);
IES LM-84 (2014);
IES LM-86 (2015);
IES TM-21 (2011);
IES TM-26 (2015);
IES TM-28 (2014)

Test Technology:

Luminous Intensity
Distribution

Test Method(s)^{1,2,3:}

IES LM-79 (2008) Section 10;
ANSI/IES LM-79-19 Section 8;
IES LM-63-02/R08;
IES TM-15 (2011)

Photometric Measurements

IES LM-9 (2009);
IES LM-10 (2013);
IES LM-20 (2013);
IES LM-31 (1995);
IES LM-35 (2002);
IES LM-41 (2014);
IES LM-45 (2009,2015);
IES LM-46 (2004);
IES LM-51 (2013);
IES LM-66 (2014);
IES LM-78 (2007,2017);
IES LM-79 (2008) Section 9;
ANSI/IES LM-79-19 Section 7;
IES LM-82 (2012);
IES LM-84 (2014);
IES LM-85 (2014);
IES LM-86 (2015);
IES TM-27 (2014);
IES TM-33 (2018);
CIE 84 (1989);
CIE 121 (1996, SP1, 2009);
CIE 127(1997,2007);
CIE 190 (2010);
CIE S 025/E:2015;
CIE S 026/E:2018

Flicker Measurements

CEC-400-2015-038-CMF, Appendix JA10;
CEC-400-2018-021-CMF, Appendix JA10;
NEMA 77-2017

BS EN IEC Standard

BS EN 13032-1:2004+A1:2012;
BS EN 13032-2:2017;
BS EN 13032-4:2015;
BS EN 13032-5:2018;
EN 50285:1999;
EN/IEC 60969-2001;
IEC 60064 Edition 6.3:2005+A4+A5;
IEC 60081: A5 2013, Annex B;
IEC 60901 (2011);
IEC/TR 61341-2010;
IEC 62612-2013+Amd1:2015;
IEC 62612:2013+AMD1:2015+AMD2:2018;
IEC 62717:2014+AMD:2015;
IEC 62717:2014+AMD1:2015+AMD2:2019;
IEC 62722-1:2014;
IEC 62722-2-1:2014

Test Technology:

SASO Standard

Test Method(s)^{1,2,3:}SASO 2870:2015;
SASO 2870:2018;
SASO 2902:2018

ANSI Standard

ANSI C62.41.2-2002;
ANSI C78.20:2003;
ANSI C78.20:2003 (R2015);
ANSI C78.21-2011;
ANSI C78.21-2011 (R2016);
ANSI C78.23-1995 (R2003);
ANSI C78.23-1995 (S2018);
ANSI C78.375-1997;
ANSI C78.375A-2014;
ANSI C78.376-2001;
ANSI C78.376-2014;
ANSI C78.377-2008;
ANSI C78.377-2011;
ANSI C78.377-2015;
ANSI C78.377-2017;
ANSI C78.379-2006;
ANSI C78.379-2006 (R2015);
ANSI C78.387-1987;
ANSI C78.387-2007;
ANSI C78.389-2004;
ANSI C78.389-2004 (S2018);
ANSI C78.50-2014;
ANSI C78.50-2016;
ANSI C78.5-2003;
ANSI C78.5-2003 (R2015);
ANSI C78.5-2017;
ANSI C78.79-2014;
ANSI C78.901-2014;
ANSI C78.901-2016;
ANSI C79.1-2002;
ANSI C82.11-2002;
ANSI C82.11-2011;
ANSI C82.11-2017;
ANSI C82.2-2002;
ANSI C82.2-2002 (R2016);
ANSI C82.6-2005;
ANSI C82.6-2015;
ANSI C82.77-10-2014;
ANSI C82.77-2002;
ANSI/ANSLG C78.357-2010;
ANSI/ANSLG C78.81-2010;
ANSI/ANSLG C78.81-2016;
ANSI/ANSLG C81.61-2009;
ANSI/ANSLG C81.61-2009 (R2014);
ANSI/ANSLG C81.61-2009 (R2017);
ANSI/ANSLG C81.62-2009;
ANSI/ANSLG C81.62-2017;

Test Technology:ANSI Standard (*cont.*)**Test Method(s)^{1,2,3:}**

ANSI/ASABE S640 JUL2017;
ANSI/ASABE S642 SEP2018;
ANSI/IEEE C62.41-1991;
ANSI/IEEE C62.41.1-2002

US CFR

10 CFR Part 430, Appendix BB to Subpart B;
10 CFR Part 430, Appendix DD to Subpart B;
10 CFR Part 430, Appendix Q to Subpart B;
10 CFR Part 430, Appendix R to Subpart B;
10 CFR Part 430, Appendix W to Subpart B;
10 CFR Part 431.324

Brazil Standard

INMETRO Regulation 389 (2014);
Ordinance No. 20, of February 15, 2017

AS/NZS

AS 2293.3:2005;
AS/NZS 1680.2.5:2018;
AS/NZS 4783.1:2001;
AS/NZS 4783.2:2002;
AS/NZS 4847.1:2010;
AS/NZS 4847.2:2010/Amdt 1:2011;
AS/NZS 4934.1:2014;
AS/NZS 4934.2-2011

Energy Efficiency

Appendix Y to Subpart B of Part430
Uniform Test Method for Measuring the Energy Consumption of Battery
Chargers
CSAC381.1-17; CSAC381.2-17;
EN 50563:2011+A1:2013;
EN 50564:2011;
EN 62301:2005;

EPRI generalized test protocol for calculating the energy efficiency of internal
Ac-Dc and Dc-Dc power supplies V6.6 (for products that have internal, multi-
output, or single output with integral cooling power supplies;
EPRI generalized test protocol for calculating the energy efficiency of internal
Ac-Dc and Dc-Dc power supplies;
EPRI generalized test protocol for calculating the energy efficiency of internal
Ac-Dc and Dc-Dc power supplies;
Evaluation corporation (SPEC) most current server efficiency rating tool
(SERT)

Product Safety Electrical
Household

(*excluding Transient Over
Voltages; Resistance to
Rusting; Radiation and similar
Hazards; Software
Evaluation; UV-C Radiation
Effect on Non-Metallic
Materials*)

AS/NZS 60335.1:2011/Amdt3:2015;
AS/NZS 60335.1:2011+A1:2012+A2:2014+A3:2015+A4:2017;
AS/NZS 60335.1:2011+A1:2012+A2:2014+A3:2015+A4:2017+A5:2019;
AS/NZS 60335.2.2:2018;
AS/NZS 60335.2.9:2014+A1:2015+A2:2016+A3:2017;
AS/NZS 60335.2.13:2017;
AS/NZS 60335.2.14:2017;
AS/NZS 60335.2.15:2013+A1:2016+A2:2017+A3:2018;
AS/NZS 60335.2.23:2017;

Test Technology:

Product Safety Electrical
Household
(excluding Transient Over
Voltages; Resistance to
Rusting; Radiation and similar
Hazards; Software
Evaluation; UV-C Radiation
Effect on Non-Metallic
Materials)
(cont.)

Test Method(s)^{1,2,3}:

AS/NZS 60335.2.29:2017;
AS/NZS 60335.2.30:2015+A1:2015+A2:2017;
AS/NZS 60335.2.32:2014;
AS/NZS 60335.2.65:2015;
AS/NZS 60335.2.80:2016;
EN 60335-1:2012+A11:2014;
EN 60335-2-2:2010+A11:2012+A1:2013;
EN 60335-2-9:2003+A13:2010;
EN 60335-2-13:2010+A1:2012;
EN 60335-2-15:2002+A11:2012;
EN 60335-2-23:2003+A2:2015;
EN 60335-2-29:2004+A2:2010;
EN 60335-2-30:2009+A11:2012;
EN 60335-2-32:2003+A1:2008+A2:2015;
EN 60335-2-65:2003+A11:2012;
EN 60335-2-80:2003+A2:2009;
IEC 60730-1:2010;
IEC 60730-1:2013+A1:2015;
IEC 60730-2-7:2008;
IEC 60730-2-9:2008+A1:2011;
EN 60730-1:2010;
EN 60730-1:2016;
EN 60730-2-7:2010;
EN 60730-2-9:2010;
IEC 60335-1:2010+A1:2013+A2:2016;
IEC 60335-2-2:2009+A1:2012+A2:2016;
IEC 60335-2-2:2019;
IEC 60335-2-9:2008+A1:2012+A2:2016;
IEC 60335-2-9: 2019;
IEC 60335-2-13:2009+A1:2016;
IEC 60335-2-14:2016;
IEC 60335-2-14:2016+A1:2019;
IEC 60335-2-15:2012+A1:2016+A2:2018;
IEC 60335-2-23:2016;
IEC 60335-2-23:2016+A1:2019;
IEC 60335-2-29:2016;
IEC 60335-2-29:2016+A1:2019;
IEC 60335-2-30:2009+A1:2016;
IEC 60335-2-32:2002+A1:2008+A2:2013;
IEC 60335-2-32:2019;
IEC 60335-2-65:2002+A1:2008+A2:2015;
IEC 60335-2-80Ed.3.0b:2015;
UL 197-2010; UL 283-2015;
UL 499-2014; UL 507-2017;
UL 763-2018;
UL 778-2016;
UL 859-2012;
UL 982-2015;
UL 998-2011;
UL 1017-2017;
UL 1018-2011;

Test Technology:

Product Safety Electrical
Household
(excluding Transient Over
Voltages; Resistance to
Rusting; Radiation and similar
Hazards; Software
Evaluation; UV-C Radiation
Effect on Non-Metallic
Materials)
Product Safety
Electrical
Household (cont.)

Test Method(s)^{1,2,3}:

UL 1026-2012;
UL 1082-2009;
UL 1278-2014;
UL 1647-2015;
UL 2272-2016;
UL 9990-2017

Audio/Video and Similar
(excluding Ionizing Radiation,
Laser Radiation, Heat
Resistance of Insulating
Material, Surge Test, Bump
Test, Remote Control Devices,
Power Cable Tension and
Torque Test, Fragmentation
Test)

AS/NZS 60065:2012;
AS/NZS 60065:2018;
EN 60065:2014;
EN 60065:2014+A11:2017;
IEC 60065:2014;
KN 60065:2005;
UL 60065 Ed.8 (2015)

Information Technology
Equipment (ITE)
(excluding Cathode Ray Tube,
Flammable Liquids, Ionizing
Radiation, Effect of UV
Radiation on Material, Laser
Radiation, Test to Resistance
on Fire, Flammability Test,
Impulse Test, and Mandrel
Test, Sound Level)

IEC 60950-1:2005+A1:2009+A2:2013;
EN 60950-1:2006+A11:2009+A1:2010+A12:2012+A2:2013;
AS/NZS 60950.1:2015;
C22.2 NO. 60950-1-07 (R2016);
CAN/CSA-C22.2 NO.62368-1-14;
CSA C22.2 No.62368-1:19;
IEC 62368-1 ED2.0:2014;
IEC 62368-1:2018;
EN 62368-1:2014;
EN 62368-1:2014+A11:2017

EN IEC 62368-1:2020+A11:2020;
AS/NZS 62368.1:2018;
IEC 62368-3 Ed.1.0b:2017
UL 62368-1 Edition 2;
UL 62368-1 Edition 3

Lighting
(excluding Stress Corrosion,
UV Radiation and
Photobiological Hazards, IPX1
/ IPX2 / IPX3 / IPX4 / IPX5 /
IPX8 / IP5X / IP6X Testing)

ANSI/UL 153:2002;
ANSI/UL 153-2014;
ANSI/UL 1574:2004;
ANSI/UL 1598:2008;
ANSI/UL 1598-2018;
ANSI/UL 1598C:2014;
ANSI/UL 1993-2009;
ANSI/UL 1993-2012;
ANSI/UL 1993-2017;
ANSI/UL 2108-2004;
ANSI/UL 8750-2009;

Test Technology:

Lighting
(excluding Stress Corrosion,
UV Radiation and
Photobiological Hazards, IPX1
/ IPX2 / IPX3/ IPX4 / IPX5 /
IPX8 / IP5X / IP6X Testing)
(cont.)

Test Method(s)^{1,2,3}:

ANSI/UL 8750-2015;
ANSI/UL 8800 Ed.1;
AS/NZS 60598.1 (2013);
AS/NZS 60598.1:2017;
AS/NZS 60598.2.1:2014+Amdt1:2016;
AS/NZS 60598.2.1:2014+A1:2016+ A2:2019;
AS/NZS 60598.2.2:2016;
AS/NZS 60598.2.2:2016+A1:2017;
AS/NZS 60598.2.4:2005+A1:2007;
AS/NZS 60598.2.5:2018;
AS/NZS 60598.2.17: 2019;
AS/NZS 60598.2.20: 2018;
AS/NZS 60598.2.22: 2005;
AS 60598.2.22: 2019;
AS/NZS 60598.2.23: 2002;
AS/NZS 62087.1:2010;
AS/NZS 62087.2.1:2008;
AS/NZS 62087.2.2:2011;
AS/NZS 62560:2017;
CAN/CSA-C22.2250.0-08(R2013);
CAN/CSA-C22.2NO.250.1-16;
CSA-C22.2NO.250.13-17;
CAN/CSA-C22.2NO.250.4-14;
CAN/CSA-C22.2No.1993-12;
EN 60598-1:2015;
EN 60598-1:2015+A1:2018;
EN 60598-2-4:1997;
EN 60598-2-4:2018;
EN 60598-2-5:2015;
EN 60598-2-8:2013;
EN 60598-2-9:1989/A1:1994;
EN 60598-2-17:2018;
EN 60598-2-20:2015;
EN 60598-2-22:2014;
EN 60598-2-23:1996 + A1:2000;
EN 60598-2-24:2013;
EN 62035:2014;
EN 62384 (2006)+Amd1(2009);
EN 62560:2012;
EN 62560:2012+A1:2015;
EN 62838:2016;
IEC 60598-1:2014;
IEC 60598-2-1:1987;
IEC 60598-2-2:2011;
IEC 60598-2-4:2017;
IEC 60598-2-5:2015;
IEC 60598-2-13:2006+A1:2011+A2:2016;
IEC 60598-2-17:2017;
IEC 60598-2-20:2014;
IEC 60598-2-22:2014;
IEC 60598-2-22:2014 + A1:2017;

<u>Test Technology:</u>	<u>Test Method(s)^{1,2,3:}</u>
Lighting (excluding Stress Corrosion, UV Radiation and Photobiological Hazards, IPX1 / IPX2 / IPX3/ IPX4 / IPX5 / IPX8 / IP5X / IP6X Testing) (cont.)	IEC 60598-2-23:1996+A1:2000; IEC 60598-2-24:2013; IEC 62031:2008+A1:2012+A2:2014; IEC 62031:2018; IEC 62321:2008 (ed.1); IEC 62384:2011; IEC 62560:2011+A1:2015; IEC 62776:2014; IEC 62838:2015
Plugs, Socket-outlets, Adaptors and Connection units	AS/NZS 3112:2017; BS 1363-1:2016+A1:2018; BS 1363-1:2020; EN 50075:1990
Transformers/Power Supplies	ANSI/UL 935-2009; ANSI/UL 1310-2010; ANSI/UL 2089-2011; ANSI/UL 1029 Ed.5; AS/NZS 61347.1:2016; AS/NZS 61347.1:2016+A1:2018; AS/NZS 61347.2.11:2003; AS/NZS 61347-2-13:2013; AS/NZS 61558-1:2018; AS/NZS 61558-1:2018+A1:2020; AS/NZS 61558.2.16:2010+A1+A2+A3; CAN/CSA-C22.2 No.223-15; EN 61347-1:2015; EN 61347-1:2015+A1:2018; EN 61347-2-7:2012; EN 61347-2-8:2001+A1:2006; EN 61347-2-11:2001; IEC 61347-2-11:2001+A1:2017; EN 61347-2-12:2005+A1:2010; EN 61347-2-13:2014+A1:2017; EN 61558-1:2005+A1:2009; EN 61558-2-6:2009; EN 61558-2-16:2009+A1:2013; IEC 61347-1:2015; IEC 61347-1:2015+A1:2017; IEC 61347-2-4Ed.1.0 (2000); IEC 61347-2-7:2011; IEC 61347-2-7:2011+A1:2017; IEC 61347-2-8Ed.1.1 (2006); IEC 61347-2-11ed1.0 (2001-04); IEC 61347-2-12Ed.1.1 (2010); IEC 61347-2-13:2014; IEC 61347-2-13:2014+A1:2016; IEC 61558-1:2017; IEC 61558-2-6:2009; IEC 61558-2-16:2009+A1:2013

Test Technology:

Measurement Control and
Laboratory Equipment
(excluding Flammability Test,
Ionizing Radiation, UV
Radiation, Microwave
Radiation, Ultrasonic
Pressure, and IP Testing)

Test Method(s)^{1,2,3}:

AS/NZS 61010.1:2003;
EN 61010-031:2015;
EN 61010-1:2010;
EN 61010-2-032:2012;
IEC 61010-031:2015;
IEC 61010-031:2015+A1:2018;
IEC 61010-1:2010;
IEC 61010-1:2010+A1:2016;
IEC 61010-2-032:2012;
IEC 61010-2-032:2019

Mechanical
Degrees of protection provided
by enclosures

EN 60529:1991+A2:2013;
IEC 60529:1989+A2:2013;
IEC 62262:2002

Miscellaneous

IEC 62087-1:2015;
IEC 62087-2:2015;
IEC 62087-3:2015;
IEC 62087-4:2015;
IEC 62087-5:2015;
IEC 62087-6:2015;
AS/NZS 4234:2008;
AS/NZS 4665.1 (2005)+A1(2009);
AS/NZS 4665.2 (2005)+A1(2009);
AS/NZS 4879.1:2008;
AS/NZS 4879.2:2010;
AS/NZS 5813.1:2012;
AS/NZS 5813.2:2012+A1:2013;
AS/NZS 5814.1:2012;
AS/NZS 5815.1:2012;
AS/NZS 5815.2:2013

Glow Wire

EN 60695-2-10

Needle Flame

IEC 60695-11-5

Ball Pressure

IEC 60695-10-2

Toys

EN 62115:2005+A2:2011+A11:2012+A12:2015;
IEC 62115:2017;
AS/NZS 62115:2018

Environmental
Electric and Electronic
Products

AS 60068.2.1:2003;
AS 60068.2.2:2003;
EN 60068-1:2014;
EN 60068-2-1:2007;
EN 60068-2-2:2007;
IEC 60068-1:2013;
IEC 60068-2-1:2007;
IEC 60068-2-2:2007

Test Technology:

Lighting

Test Method(s)^{1,2,3}:

JEDECJESD22-A101C-2009;
 JEDECJESD22-A101D-2015;
 JEDECJESD22-A104D-2014;
 JEDECJESD22-A104E-2014;
 JEDECJESD22-A105C-2004;
 JEDECJESD22-A108D-2010

¹ A2LA provides accreditation to the U.S. EPA's [Conditions and Criteria for Recognition of Laboratories for the ENERGY STAR Program](#) by verifying an organization's compliance to A2LA document [R222 - Specific Requirements - EPA ENERGY STAR Accreditation Program](#) and to the related test methods listed on this laboratory's scope.

Accreditation by A2LA does not infer Recognition by the EPA for ENERGY STAR testing. Please verify this organization's recognition status by using the EPA's searchable database, located at http://www.energystar.gov/index.cfm?fuseaction=recognized_bodies_list.show_RCB_search_form

² The EPA ENERGY STAR program does not recognize incandescent lighting products; however, this laboratory is accredited to perform these tests for its commercial customers.

³ When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is expected to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA *R101 - General Requirements - Accreditation of ISO-IEC 17025 Laboratories*.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1⁴

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Unintentional Radiators</u>		
Part 15B	ANSI C63.4:2014	40000
<u>Industrial, Scientific, and Medical Equipment</u>		
Part 18	FCC MP-5:1986	40000
<u>Intentional Radiators</u>		
Part 15C	ANSI C63.10:2013	325000
<u>Unlicensed Personal Communication Systems</u>		
<u>Devices</u>		
Part 15D	ANSI C63.17:2013	40000
<u>U-NII without DFS Intentional Radiators</u>		
Part 15E	ANSI C63.10:2013	40000

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1⁴

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>U-NII with DFS Intentional Radiators</u> Part 15E	FCC KDB 905462 D02 (v02)	40000
<u>UWB Intentional Radiators</u> Part 15F	ANSI C63.10:2013	200000
<u>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-D/E; TIA-102.CAAA-D/E; ANSI C63.26:2015	40000
<u>General Mobile Radio Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97 (below 3 GHz), and 101 (below 3 GHz)	ANSI/TIA-603-D/E; TIA-102.CAAA-D/E; ANSI C63.26:2015	40000
<u>Maritime and Aviation Radio Services</u> Parts 80 and 87	ANSI/TIA-603-D/E; ANSI C63.26:2015	40000
<u>Microwave and Millimeter Bands Radio Services</u> Parts 25, 30, 74, 90 (below 3 GHz), Parts 95, 97 (below 3 GHz), and 101	ANSI/TIA-603-D/E; TIA-102.CAAA-D/E; ANSI C63.26:2015	40000
<u>Broadcast Radio Services</u> Parts 73 and 74 (below 3 GHz)	ANSI/TIA-603-D/E; TIA-102.CAAA-D/E; ANSI C63.26:2015	40000
<u>RF Exposure</u> Devices Subject to SAR Requirements	IEEE Std 1528:2013	6000
<u>Signal Boosters</u> Part 20 (Wideband Consumer Signal Boosters, Provider-specific signal boosters, and Industrial Signal Boosters)	ANSI C63.26:2015	40000

⁴ Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.



Accredited Laboratory

A2LA has accredited

BAY AREA COMPLIANCE LABORATORIES CORP. (Kunshan)

Jiangsu Province, People's Republic of China

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 laboratory also meets A2LA R222 – Specific Requirements EPA ENERGY STAR Accreditation Program. 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 23rd day of November 2020

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4323.01
Valid to September 30, 2022

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