



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

BAY AREA COMPLIANCE LABORATORIES CORP. (DONGGUAN)

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ELECTRICAL

Valid To: October 31, 2022

Certificate Number: 4820.01

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 Program¹ requirements), accreditation is granted to this laboratory to perform the following EMC, Product Safety, Radio, Telecommunication, and Lighting tests:

Test Technology:

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

Emissions

Radiated and Conducted ANSI C63.4²; ANSI C63.10; ANSI C63.17; ANSI C63.26;
FCC 47, CFR Part 15B (using ANSI C63.4:2014, ANSI C63.4a:2017);
FCC 47, CFR Part 18 (using FCC MP-5:1986);
ICES-001 Issue 5 (July 2020); ICES-003 Issue 7 (October 2020);
ICES-005 Issue 3 (December 2018); ICES-006 Issue 3 (July 2018);
CISPR 32; EN 55032; VCCI-CISPR 32; VCCI V-3;
AS/NZS CISPR 11; EN 55011; BS EN 55011; IEC/CISPR 11;
CNS 13803; CNS 13439; CNS 13783-1;
AS/NZS CISPR 14.1; EN 55014-1; BS EN 55014-1; IEC/CISPR 14-1;
AS/NZS CISPR 15; AS CISPR 15; CISPR 15; EN 55015;
BS EN 55015; IEC/CISPR 15; CNS 14115; CNS 13438 (*up to 6 GHz*);
GB 9254; CISPR 16-1-4²

Harmonics

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

Flicker

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

Immunity

Electrostatic Discharge (ESD) EN 61000-4-2; BS EN 61000-4-2; IEC 61000-4-2

Radiated Immunity (80 MHz-6 GHz, 3V/m) EN 61000-4-3; BS EN 61000-4-3; IEC 61000-4-3

<u>Test Technology:</u>	<u>Test Method(s) ^{1,2,3:}</u>
Immunity (cont.)	
Electrical Fast Transient (EFT) / Burst	EN 61000-4-4; BS EN 61000-4-4; IEC 61000-4-4
Surge	EN 61000-4-5; BS EN 61000-4-5; IEC 61000-4-5
Conducted Immunity	EN 61000-4-6; BS EN 61000-4-6; IEC 61000-4-6
Magnetic Field Immunity	EN 61000-4-8; BS EN 61000-4-8; IEC 61000-4-8
Voltage Dips, Short Interrupts, and Variations	EN 61000-4-11; BS EN 61000-4-8; IEC 61000-4-11
Generic and Product Family Standards	EN 50065-1; BS EN 50065-1; EN 50065-2-1; BS EN 50065-2-1; EN 50065-2-2; BS EN 50065-2-2; EN 50065-2-3; BS EN 50065-2-3; EN 50083-2; BS EN 50083-2; EN 50121-1; BS EN 50121-1; EN 50121-2; BS EN 50121-2; EN 50121-3-1; BS EN 50121-3-1; EN 50121-3-2; BS EN 50121-3-2; EN 50121-4; BS EN 50121-4; EN 50121-5; BS EN 50121-5; EN 50130-4; BS EN 50130-4; EN 50270; BS EN 50270; EN 50293; BS EN 50293; EN 50332-1; BS EN 50332-1; EN 50332-2; BS EN 50332-2; EN 50370-1; BS EN 50370-1; EN 50370-2; BS EN 50370-2; EN 50412-2-1; BS EN 50412-2-1; EN 50561-1; BS EN 50561-1; EN 55103-1; BS EN 55103-1; EN 55103-2; BS EN 55103-2; EN 60601-1-2; BS EN 60601-1-2; EN 60945; BS EN 60945; IEC 60945; EN 61000-6-1; BS EN 61000-6-1; BS EN IEC 61000-6-1; IEC 61000-6-1; EN 61000-6-2; BS EN 61000-6-2; BS EN IEC 61000-6-2; IEC 61000-6-2; AS/NZS 61000-6-3; EN 61000-6-3; BS EN 61000-6-3; BS EN IEC 61000-6-3; IEC 61000-6-3; AS/NZS 61000.6.4; EN 61000-6-4; BS EN 61000-6-3; BS EN IEC 61000-6-3; IEC 61000-6-4; EN 61131-1; BS EN 61131-1; IEC 61131-1; EN 61131-2; BS EN 61131-2; IEC 61131-2; EN 61204-3; BS EN 61204-3; BS EN IEC 61204-3; IEC 61204-3; EN 61326-1; BS EN 61326-1; IEC 61326-1; EN 61326-2-1; BS EN 61326-2-1; IEC 61326-2-1; EN 61326-2-2; BS EN 61326-2-2; IEC 61326-2-2; EN 61326-2-3; BS EN 61326-2-3; IEC 61326-2-3; EN 61326-2-4; BS EN 61326-2-4; IEC 61326-2-4; EN 61326-2-5; BS EN 61326-2-5; IEC 61326-2-5; EN 61326-2-6; BS EN 61326-2-6; IEC 61326-2-6; EN 61547; BS EN 61547; IEC 61547; AS/NZS CISPR 14.2; EN 55014-2; BS EN 55014-2; IEC/CISPR 14-2; CNS 13439; IEC/CISPR 22; IEC 62236-3-2; AS/NZS CISPR 24; CISPR 24; EN 55024; BS EN 55024; GB 9254; CISPR 35; EN 55035; BS EN 55035; VCCI V-3; TCVN 7189 (CISPR 22); IEC 60870-2-1; ETSI EN 300 386; ICES-008, Issue 1 (June 2015); ICES-Gen Issue 1 July 2018; IDA TS EMC, Issue 1, Rev. 1 (March 2000)
Hearing Aid Compatibility (HAC)	ANSI C63.19 (2019); RSS-HAC, Issue 1 (March 2019)

<u>Test Technology:</u>	<u>Test Method(s) ^{1,2,3:}</u>
Specific Absorption Rate (SAR)	EN 50360; BS EN 50360; EN 50566; BS EN 50566; EN 62209-1; BS EN 62209-1; IEC 62209-1; EN 62209-2; BS EN 62209-2; IEC 62209-2; EN 62232; BS EN 62232; IEC 62232; RSS-102, Issue 5 (March 2015); IEEE 1528:2013; MIC Article 14-2
RF Exposure	EN 50364; BS EN 50364; EN 50383; BS EN 50383; EN 50384; BS EN 50384; EN 50385; BS EN 50385; EN 50400; BS EN 50400; EN 50421; BS EN 50421; EN 50663; BS EN 50663; EN 50664; BS EN 50664; EN 50665; BS EN 50665; IEC 62233; EN 62311; EN IEC 62311; BS EN IEC 62311; IEC 62311; EN 62479; BS EN 62479; IEC 62479; EN 62493; BS EN 62493; IEC 62493; IEEE Std C95.3; IEEE Std C95.1; EN 50384; RSS-102, Issue 5 (March 2015); SPR-002, Issue 1 (September 2016 [<i>limited to 1Hz – 400kHz measurements</i>])
Radio	
ACA	ACA Standard 2013 Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 2013
ACMA	ACMA (Short Range Devices) Standard
ARIB	ARIB Standard STD-T66; ARIB STD-T81
AS/NZS	AS/NZS 2772.1; AS/NZS 2772.2; AS/NZS 4268; AS/NZS 4295; AS/NZS 4355; AS/NZS 4365; AS/NZS 4367; AS/NZS 4415.1; AS/NZS 4415.2; AS/NZS 4583; AS/NZS 4768.1; AS/NZS 4768.2; AS/NZS 4768.3; AS/NZS 4769.1; AS/NZS 4769.2; AS/NZS 4771; AS/CA S042.1; AS/CA S042.3; AS/CA S042.4
Europe	ETSI EN 300 086; ETSI EN 300 113; ETSI EN 300 219; ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 300 220-3-1; ETSI EN 300 220-3-2; ETSI EN 300 220-4; ETSI EN 300 296; ETSI EN 300 328; ETSI EN 300 330; ETSI EN 300 338-1; ETSI EN 300 338-2; ETSI EN 300 338-3; ETSI EN 300 338-4; ETSI EN 300 338-5; ETSI EN 300 338-6; ETSI EN 300 373-1; ETSI EN 300 373-2; ETSI EN 300 373-3; ETSI EN 300 390; ETSI EN 300 394-1; ETSI EN 300 422-1; ETSI EN 300 422-2; ETSI EN 300 422-3; ETSI EN 300 422-4; ETSI EN 300 440; ETSI EN 300 454-1; ETSI EN 300 454-2; ETSI EN 300 609-4; ETSI EN 300 471-1; ETSI EN 300 471-2; ETSI EN 300 674-2-1; ETSI EN 300 674-2-2; ETSI EN 300 676-1; ETSI EN 300 676-2; ETSI EN 300 698; ETSI EN 301 025; ETSI EN 301 091-1; ETSI EN 301 091-2; ETSI EN 301 091-3; ETSI EN 301 166; ETSI EN 301 178; ETSI EN 301 357; ETSI EN 301 406; ETSI EN 301 489-1; ETSI EN 301 489-2; ETSI EN 301 489-3; ETSI EN 301 489-4; ETSI EN 301 489-5; ETSI EN 301 489-6; ETSI EN 301 489-9; ETSI EN 301 489-10; ETSI EN 301 489-11; ETSI EN 301 489-12; ETSI EN 301 489-13; ETSI EN 301 489-14; ETSI EN 301 489-15; ETSI EN 301 489-16; ETSI EN 301 489-17; ETSI EN 301 489-18; ETSI EN 301 489-19; ETSI EN 301 489-20; ETSI EN 301 489-22; ETSI EN 301 489-23; ETSI EN 301 489-25; ETSI EN 301 489-26; ETSI EN 301 489-27; ETSI EN 301 489-28;

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

Europe (cont.)

ETSI EN 301 489-29; ETSI EN 301 489-32; ETSI EN 301 489-33;
ETSI EN 301 489-34; ETSI EN 301 489-35; ETSI EN 301 489-50;
ETSI EN 301 489-51; ETSI EN 301 489-53;
ETSI EN 301 502; ETSI EN 301 511; ETSI EN 301 559;
ETSI EN 301 526; ETSI EN 301 783; ETSI EN 301 843-1;
ETSI EN 301 843-2; ETSI EN 301 843-4; ETSI EN 301 843-5;
ETSI EN 301 843-6; ETSI EN 301 843-7; ETSI EN 301 893;
ETSI EN 301 908-1; ETSI EN 301 908-2; ETSI EN 301 908-3;
ETSI EN 301 908-4; ETSI EN 301 908-5; ETSI EN 301 908-6;
ETSI EN 301 908-7; ETSI EN 301 908-8; ETSI EN 301 908-9;
ETSI EN 301 908-10; ETSI EN 301 908-11; ETSI EN 301 908-12;
ETSI EN 301 908-13; ETSI EN 301 908-14; ETSI EN 301 908-15;
ETSI EN 301 908-16; ETSI EN 301 908-17; ETSI EN 301 908-18;
ETSI EN 301 908-19; ETSI EN 301 908-20; ETSI EN 301 908-21;
ETSI EN 301 908-22; ETSI EN 301 908-24; ETSI EN 302 065;
ETSI EN 302 054; ETSI EN 302 054-1; ETSI EN 302 054-2;
ETSI EN 302 065; ETSI EN 302 065-1; ETSI EN 302 065-2;
ETSI EN 302 065-3; ETSI EN 302 065-4; ETSI EN 302 065-5;
ETSI EN 302 066; ETSI EN 302 208; ETSI EN 302 264;
ETSI EN 302 426; ETSI EN 302 435-1; ETSI EN 302 435-2;
ETSI EN 302 498-1; ETSI EN 302 498-2; ETSI EN 302 500-1;
ETSI EN 302 500-2; ETSI EN 302 502; ETSI EN 302 561;
ETSI EN 302 567; ETSI EN 302 625; ETSI EN 302 729;
ETSI EN 302 858; ETSI EN 303 035-1; ETSI EN 303 035-2;
ETSI EN 303 098; ETSI EN 303 345-1; ETSI EN 303 345-2;
ETSI EN 303 345-3; ETSI EN 303 345-4; ETSI EN 303 345-5;
ETSI EN 303 345; ETSI EN 303 348; ETSI EN 303 396;
ETSI EN 303 340; ETSI EN 303 372-2; ETSI EN 303 405;
ETSI EN 303 413; ETSI EN 303 417; ETSI EN 303 520;
ETSI EN 303 609; ETSI EN 305 550; ETSI EN 305 550-1;
ETSI EN 305 550-2

HKCA

HKCA 1002; HKCA 1003; HKTA 1004; HKTA 1005; HKCA 1006;
HKCA 1007; HKCA 1008; HKCA 1010; HKCA 1015; HKTA 1016;
HKTA 1019; HKCA 1020; HKCA 1022; HKTA 1026; HKCA 1033;
HKCA 1034; HKCA 1035; HKCA 1039; HKCA 1041; HKCA 1042;
HKCA 1043; HKCA 1044; HKTA 1045; HKCA 1046; HKTA 1047;
HKCA 1048; HKCA 1049; HKCA 1050; HKCA 1052; HKCA 1053;
HKCA 1054; HKTA 1056; HKTA 1057; HKTA 1061; HKCA 1064;
HKCA 1065; HKCA 1066; HKCA 1067; HKCA 1068; HKCA 1069;
HKCA 1072; HKCA 1073; HKCA 1076; HKCA 1078; HKCA 1080;
HKTA 1260; HKTA 1263; HKTA 1266; HKTA 1277; HKTA 1283

Japan

MIC Article 2-1 Item (3); MIC Article 2-1 Item (8); MIC Article 2.1 Item (11)-3;
MIC Article 2-1 Item (11)-4; MIC Article 2-1 Item (11)-5;
MIC Article 2-1 Item (11)-6; MIC Article 2-1 Item (11)-6-2;
MIC Article 2-1 Item (11)-6-3; MIC Article 2-1 Item (11)-6-4;
MIC Article 2-1 Item (11)-7; MIC Article 2-1 Item (11)-8;
MIC Article 2-1 Item (11)-9; MIC Article 2-1 Item (11)-10;

Test Technology:

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

Japan (*cont'd*)

MIC Article 2-1 Item (11)-10-2; MIC Article 2-1 Item (11)-10-4;
MIC Article 2-1 Item (11)-11; MIC Article 2-1 Item (11)-13;
MIC Article 2-1 Item (11)-19; MIC Article 2-1 Item (13);
MIC Article 2-1 Item (19); MIC Article 2-1 Item (19)-2;
MIC Article 2-1 Item (19)-2-2; MIC Article 2-1 Item (19)-2-3;
MIC Article 2-1 Item (19)-3; MIC Article 2-1 Item (19)-3-2;
MIC Article 2-1 Item (19)-11; MIC Article 2-1 Item (22);
MIC Article 2-1 Item (32); MIC Article 2-1 Item (33)-2;
MIC Article 2-1 Item (47); MIC Article 2-1 Item (54);
MIC Article 2-1 Item (6); MIC Article 2-1 Item (21)-2;
MIC Article 2-1 Item (11)-19-2; MIC Article 2-1 Item (11)-19-3

Canada

RSS-111, Issue 5 (September 2014);
RSS-112 Issue 1 (February 2008);
RSS-117, Issue 3 (January 2016);
RSS-119 Issue 12 (May 2015);
RSS-123 Issue 4 (August 2019);
RSS-125 Issue 3 (June 2020);
RSS-127 Issue 1 Revision 1 (August 2009);
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 2018 Amendment);
RSS-134 Issue 2 (February 5, 2016);
RSS-135 Issue 2 (June 2009);
RSS-137, Issue 2 (February 2009);
RSS-139, Issue 3 (July 2015);
RSS-140, Issue 1 (April 2018);
RSS-141, Issue 2 (June 2010);
RSS-142, Issue 5 (April 2013);
RSS-170, Issue 3 (July 2015);
RSS-181, Issue 2 (August 2019 Amendment February 2020);
RSS-182, Issue 5 (January 2012);
RSS-191, Issue 3 (April 2008)
RSS-192, Issue 4 (May 2020);
RSS-194, Issue 1 (October 2007);
RSS-195, Issue 2 (April 2014);
RSS-196, Issue 2 (February 2019);
RSS-197, Issue 1 (February 2010);
RSS-199, Issue 3 (December 2016);
RSS-210, Issue 10 (December 2019);
RSS-211, Issue 1 (March 2015);
RSS-213, Issue 3 (March 2015);
RSS-215, Issue 2 (June 2009);
RSS-216, Issue 2 (January 2016, Amendment 1 September 2020);
RSS-220, Issue 1 (March 2009, Amendment July 2018);
RSS-222, Issue 2 (January 2020);
RSS-236, Issue 1 (September 2012);
RSS-238, Issue 1 (July 2013);
RSS-243, Issue 3 (February 2010);

Test Technology:**Test Method(s) ^{1,2,3}:**Canada (*cont'd*)

RSS-244, Issue 1 (Jun 2013);
RSS-246, Issue 1 (March 2019);
RSS-247, Issue 2 (February 2017);
RSS-251, Issue 2 (July 2018);
RSS-252, Issue 1 (September 2017);
RSS-287, Issue 2 (March 2014);
RSS-288, Issue 1 (January 2012);
RSS-310, Issue 5 (January 2020);
RSS-GEN, Issue 5 (April 2018, Amendment 1 – March 2019);
BETS-1, Issue 1 (November 1996); BETS-3, Issue 1 (November 1996);
BETS-6, Issue 2 (August 2005); BETS-7, Issue 3 (March 2015)

Singapore

IDA TS CT-CTS Issue 1, Rev 2, October 2016;
IMDA TS AR, Issue 1, Rev 1, October 2016;
IMDA TS CBS Issue 1, Rev 1 July 2017;
IMDA TS CMT Issue 1, Rev 1, July 2017;
IMDA TS DSRC Issue 1, Rev 1 October 2017;
IMDA TS DVB-T2 IRD (November 2017);
IMDA TS GMPCS Issue 1, October 2016;
IMDA TS IOT Issue 1, November 2017;
IMDA TS LMR Issue 1, October 2016;
IMDA TS SRD Issue 1, Rev 1, April 2018;
IMDA TS UWB Issue 1, October 2016;
IMDA TS WBA Issue 1, October 2016;
IMDA TS WSD Issue 1, October 2016

Taiwan

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

FCC/US

47 CFR FCC Parts 15B/C/D/E/F, 20, 22, 24, 25, 27, 73, 74, 80, 87, 90, 95, 97, 101
(using FCC KDB 905462 D02 (v02); FCC KDB 935210 D03 (v04);
FCC KDB 935210 D04 (v02); FCC KDB 935210 D05 (v01r04);
ANSI C63.4:2014; ANSI C63.4a:2017; ANSI C63.10:2013;
ANSI C63.17:2013; ANSI C63.26:2015; ANSI/TIA 603-D (2010);
ANSI/TIA 603-E (2016); TIA-102.CAAA-D; TIA-102.CAAA-E;
TIA-470.210:2010; TIA/EIA 603-D (2010); and/or TIA/EIA 603-E (2016))

Vietnam

QCVN 11:2010/BTTTT; QCVN 12:2010/BTTTT; QCVN 13:2010/BTTTT;
QCVN 15:2010/BTTTT; QCVN 17:2010/BTTTT; QCVN 18:2010/BTTTT;
QCVN 47:2011/BTTTT; QCVN 54:2011/BTTTT; QCVN 55:2011/BTTTT;
QCVN 65:2013/BTTTT

Product SafetyAudio/Video and
Similar

(*Excluding: 3 phases
equipment, V-cat test,
Mechanical strength of
CRTs and protection*)

EN 50332-3:2017; BS EN 50332-3:2017; AS/NZS 60065; EN 60065;
BS EN 60065; IEC 60065; K60065; ANSI/UL 60065; EN 60950-23;
BS EN 60950-23; AS/NZS 62087.1; EN 62087-1; BS EN 62087-1;
IEC 62087-1; EN 62087-2; BS EN 62087-2; IEC 62087-2; AS/NZS 62087.2.1;
AS/NZS 62087.2.2; EN 62087-3; BS EN 62087-3; IEC 62087-3; EN 62087-4;
BS EN 62087-4; IEC 62087-4; EN 62087-5; BS EN 62087-5; IEC 62087-5;
EN 62087-6; BS EN 62087-6; IEC 62087-6; EN 62087-7; BS EN 62087-7;

Test Technology:

*against the effects of
implosion)*

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

IEC 62087-7; EN IEC 62087-7; AS/NZS 62368.1; ANSI/UL 62368-1; EN 62368-1;
BS EN 62368-1; BS EN IEC 62368-1; IEC 62368-1; EN IEC 62368-1;
J 62368-1(H30); EN 62368-3; BS EN IEC 62368-3; IEC 62368-3;
CAN/CSA C22.2 No. 62368-1-14;
CAN/CSA C22.2 No. 62368-1-19;
CAN/CSA C22.2 No. 60950-1-07 (R2016);
CSA C22.2 No. 250.4-14;
CSA C22.2 No. 223-15; C22.2 No. 250.0-08 (R2013);
CAN/CSA C22.2 No 250.13-17; C22.2 No. 250.1-16;
CAN/CSA C22.2 No. 60065:16

Household

*(Excluding:
3 phases equipment,
software evaluation)*

AS/NZS 3100; AS/NZS 60320.1; AS/NZS 60320.2.1; AS/NZS 60320.2.2;
AS/NZS 60335.1; AS/NZS 60335.2.2; AS/NZS 60335.2.3; AS/NZS 60335.2.5;
AS/NZS 60335.2.8; AS/NZS 60335.2.9; AS/NZS 60335.2.14;
AS/NZS 60335.2.23; AS/NZS 60335.2.25; AS/NZS 60335.2.29;
AS/NZS 60335.2.30; AS/NZS 60335.2.32; AS/NZS 60335.2.40;
AS/NZS 60335.2.43; AS/NZS 60335.2.44; AS/NZS 60335.2.59;
AS/NZS 60335.2.65; AS/NZS 60335.2.98;
UL 130; ANSI/UL 283; ANSI/UL 499; ANSI/UL 507; ANSI/UL 1017;
ANSI/UL 1026; ANSI/UL 1082; UL 1018; ANSI/UL 1083; ANSI/UL 1278;
ANSI/UL 1647; ANSI/UL 197; ANSI/UL 60335-1; ANSI/UL 60335-2-3;
ANSI/UL 60335-2-8; ANSI/UL 60335-2-14; ANSI/UL 60335-2-29;
ANSI/UL 60335-2-40; ANSI/UL 60335-2-52; ANSI/UL 763; ANSI/UL 778;
ANSI/UL 859; ANSI/UL 867; ANSI/UL 923; ANSI/UL 982; ANSI/UL 998;
CSA C22.2 No. 108; CSA C22.2 No. 113-M:1984;
CSA C22.2 No. 1335.1 and No. 1335.2.14;
CSA C22.2 No. 195; CSA C22.2 No. 243-01;
CSA C22.2 No. 64; CSA C22.2 No. 68;
CSA C22.2 No. 81 and/or No. 89;
CSA C22.2 No. 109; CSA C22.2 No. 36;
EN 50075; EN 50564; EN 60320-1; EN 60320-2-1; EN 60320-2-2; EN 60320-2-3;
EN 60335-1; EN 60335-2-2; EN 60335-2-3; EN 60335-2-5;
EN 60335-2-6; EN 60335-2-8; EN 60335-2-9; EN 60335-2-13;
EN 60335-2-14; EN 60335-2-15; EN 60335-2-23; EN 60335-2-25;
EN 60335-2-29; EN 60335-2-30; EN 60335-2-32; EN 60335-2-40;
EN 60335-2-41; EN 60335-2-43; EN 60335-2-44; EN 60335-2-52; EN 60335-2-56;
EN 60335-2-59; EN 60335-2-65; EN 60335-2-80; EN 60335-2-97; EN 60335-2-98;
EN 60730-1; EN 60730-2-7; EN IEC 60730-2-9; EN IEC 60730-2-14;
EN 61984; BS EN 50075; BS EN 50075; BS EN 50564; BS EN 60320-1;
BS EN 60320-2-1; BS EN 60320-2-2; BS EN 60320-2-3; BS EN 60335-1;
BS EN 60335-2-3; BS EN 60335-2-5; BS EN 60335-2-6; BS EN 60335-2-8;
BS EN 60335-2-9; BS EN 60335-2-13; BS EN 60335-2-14; BS EN 60335-2-15;
BS EN 60335-2-23; BS EN 60335-2-25; BS EN 60335-2-29; BS EN 60335-2-30;
BS EN 60335-2-32; BS EN 60335-2-40; BS EN 60335-2-41;
BS EN 60335-2-43; BS EN 60335-2-44; BS EN 60335-2-52;
BS EN 60335-2-56; BS EN 60335-2-59; BS EN 60335-2-65;
BS EN 60335-2-80; BS EN 60335-2-97; BS EN 60335-2-98;
BS EN 60730-1; BS EN 60730-2-7; BS EN 60730-2-9; BS EN 60730-2-14;

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

Household
(Excluding:
3 phases equipment,
software evaluation)
(cont'd)

BS EN 61984; IEC 60320-2-1; IEC 60320-2-2; IEC 60320-2-3; IEC 60335-1;
IEC 60335-2-2; IEC 60335-2-3; IEC 60335-2-5; IEC 60335-2-8; IEC 60335-2-9;
IEC 60335-2-13; IEC 60335-2-14; IEC 60335-2-15; IEC 60335-2-23;
IEC 60335-2-25; IEC 60335-2-29; IEC 60335-2-30; IEC 60335-2-32;
IEC 60335-2-40; IEC 60335-2-41; IEC 60335-2-43; IEC 60335-2-44;
IEC 60335-2-52; IEC 60335-2-56; IEC 60335-2-59; IEC 60335-2-65;
IEC 60335-2-80; IEC 60335-2-97; IEC 60335-2-98; IEC 60730-1;
IEC 60730-2-7; IEC 60730-2-9; IEC 60730-2-14; IEC 61984-1;
DIN VDE 0620-1; DIN VDE 0620-2-1

Plugs, Socket-outlets,
Adaptors, and
Connection Units

BS 1363-1; BS EN 1363-1; BS 1363-3; EN 50075; BS EN 50075;
AS/NZS 3112; CSA C22.2 No. 223-15; UL 498; UL 498A; UL 817;
UL 962A; UL 1363; ANSI/UL 1363

Switch

IEC 60669-1; EN 60669-1; BS EN 60669-1; AS/NZS 60669.1;
IEC 60669-2-1; EN 60669-2-1; BS EN 60669-2-1; AS 60669.2.1;
IEC 60669-2-3; EN 60669-2-3; BS EN 60669-2-3

Information Technology
Equipment (ITE)
(Excluding: 3 phases
equipment, V-cat test,
Mechanical strength
of CRTs and
protection against the
effects of implosion)

ANSI/UL 60950-1; AS/NZS 60950.1(2015);
CAN/CSA C22.2 No. 60950-1-07 (R2016) + A1:2011 + A2:2014;
EN 60950-1; BS EN 60950-1; IEC 60950-1; K60950-1;
EN 60950-22; BS EN 60950-22; IEC 60950-22;
EN 60950-23; BS EN 60950-23; IEC 60950-23;
CSA C22.2 No.62368-1:19

Lighting
(Excluding: 3 phases
equipment)

AS/NZS 60598.1; AS/NZS 60598.2.1; AS/NZS 60598.2.2; AS/NZS 60598.2.3;
AS 60598.2.4; AS/NZS 60598.2.5; AS/NZS 60598.2.7; AS/NZS 60598.2.8;
AS/NZS 60598.2.9; AS/NZS 60598.2.10; AS/NZS 60598.2.12;
AS/NZS 60598.2.17; AS 60598.2.18; AS/NZS 60598.2.20;
AS 60598.2.22; AS/NZS 60598.2.23;
IEC 60598-1; IEC 60598-2-1; IEC 60598-2-2; IEC 60598-2-3; IEC 60598-2-4;
IEC 60598-2-5; IEC 60598-2-8; IEC 60598-2-9; IEC 60598-2-11; IEC 60598-2-12;
IEC 60598-2-13; IEC 60598-2-17; IEC 60598-2-18; IEC 60598-2-20;
IEC 60598-2-22; IEC 60598-2-23; EN 60598-1; EN 60598-2-1; EN 60598-2-2;
EN 60598-2-3; EN 60598-2-4; EN 60598-2-5; EN 60598-2-8; EN 60598-2-9;
EN 60598-2-11; EN 60598-2-12; EN 60598-2-13; EN 60598-2-17;
EN 60598-2-18; EN 60598-2-20; EN 60598-2-22; EN 60598-2-23;
AS/NZS 61347.1; AS/NZS 61347.2.2; AS/NZS 61347.2.3;
AS/NZS 61347.2.8; AS/NZS 61347.2.11; AS 61347.2.13;
IEC 61347-1; IEC 61347-2-2; IEC 61347-2-3; IEC 61347-2-8;
IEC 61347-2-11; IEC 61347-2-12; IEC 61347-2-13; EN 61347-1;
EN 61347-2-2; EN 61347-2-3; EN 61347-2-10; EN 61347-2-11; EN 61347-2-12;
EN 61347-2-13; AS/NZS 60968; EN 60968; IEC 60968:2015; EN 61195;
IEC 61195; EN 61199; IEC 61199; EN 62031; IEC 62031; EN 62384; IEC 62384;
AS/NZS IEC 62471; EN 62471; IEC 62471; IEC/TR 62471-2; IEC/TR 62778:2014;

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

(Excluding: 3 phases equipment) (cont'd)

AS/NZS 62560; IEC 62560; EN 62560; EN 62776; IEC 62776; JIS C 8105-2-4; ANSI/UL 153; ANSI/UL 1574; ANSI/UL 1598C; ANSI/UL 1598; ANSI/UL 1993; ANSI/UL 2108; ANSI/UL 8750; ANSI/UL 935; UL 8800; NSI/UL 1029; IEC 60061-1; IEC 60061-3; AS/NZS 2293.3; IEC 60432-1; IEC 60432-2; IEC 60432-3; CSA C22.2; BS EN 60598-1; BS EN 60598-2-1; BS EN 60598-2-2; BS EN 60598-2-3; BS EN 60598-2-4; BS EN 60598-2-5; BS EN 60598-2-8; BS EN 60598-2-11; BS EN 60598-2-12; BS EN 60598-2-13; BS EN IEC 60598-2-17; BS EN 60598-2-18; BS EN 60598-2-20; BS EN 60598-2-22; BS EN 60598-2-23; BS EN 61347-1; BS EN 61347-2-2; BS EN 61347-2-3; BS EN 61347-2-10; BS EN 61347-2-11; BS EN 61347-2-12; BS EN 61347-2-13; BS EN 60968; BS EN 61195; BS EN 61199; BS EN IEC 62031; BS EN 62384; BS EN 62471; BS EN 62560; BS EN 62776

Measurement Control and Laboratory Equipment

(Excluding: 3 phases equipment, Implosion of cathode ray tubes)

IEC 61010-1; EN 61010-1; BS EN 61010-1; IEC 61010-031; EN 61010-031; BS EN 61010-031; IEC 61010-2-032; EN 61010-2-032; BS EN 61010-2-032

Miscellaneous

(Excluding: wavelength >1550nm)

IEC 60825-1; EN 60825-1; BS EN 60825-1; IEC 60825-2; EN 60825-2; BS EN 60825-2; EN 60825-4; BS EN 60825-4; IEC 60825-12; BS EN 60825-12; EN 60825-12; EN IEC 60825-12

Glow Wire

EN 60695-2-10; BS EN 60695-2-10

Needle Flame

EN 60695-11-5; BS EN 60695-11-5; IEC 60695-11-5

Ball Pressure

EN 60695-10-2; BS EN 60695-10-2; IEC 60695-10-2

Unmanned Aerial Vehicles

ANSI/CAN/UL-3030

Toys

AS/NZS 62115; EN 62115; BS EN 62115; IEC 62115

Transformers/Power Supplies

(Excluding: 3 phases equipment)

AS/NZS 61558.1; EN 61558-1; BS EN 61558-1; IEC 61558-1; EN IEC 61558-1; EN 61558-2-1; BS EN 61558-2-1; EN 61558-2-2; BS EN 61558-2-2; IEC 61558-2-2; IEC 61558-2-4; AS/NZS 61558.2.5; EN 61558-2-5; BS EN 61558-2-5; IEC 61558-2-5; AS/NZS 61558.2.6; EN 61558-2-6; BS EN 61558-2-6; IEC 61558-2-6; AS/NZS 61558.2.7; EN 61558-2-7; BS EN 61558-2-7; IEC 61558-2-7; EN 61558-2-16; BS EN 61558-2-16; IEC 61558-2-16; AS/NZS 61558.2.17; ANSI/UL 1012; ANSI/UL 1310; CSA C22.2 No. 71.2; CSA C22.2 No. 223-15

Battery

UN 38.3; IEC 62133-1; IEC 62133-2; IEC 62133:2012; EN 62133-1; EN 62133-2; IEC 62281; EN 62281; IEC 61960; IEC 61960-3; EN 61960; EN 61960-3; IEC 60086-4; EN 60086-4; IEC 61951-2; EN 61951-2; UL 1642; UL 2054; UL 2056; IEEE 1625; IEEE 1725; MHT 1052; JIS C 8714; JIS C 8712; BS EN 62133-1; BS EN 62133-2; BS EN 62281; BS EN 61960; BS EN 61960-3; BS EN 60086-4; BS EN 61951-2;

<u>Test Technology:</u>	<u>Test Method(s) ^{1,2,3:}</u>
Battery (<i>cont'd</i>)	METI Electrical Appliance and Material Safety Law Appendix 9: (Lithium-ion secondary batteries)
Battery Chargers	10 CFR 430.23 (aa) Battery Chargers; 10 CFR 430.23 (z) Battery Chargers; UL 1642; UL 2054; UL 2056; UL 2743; EN 60086; EN 62133-2; IEC 62133-2; UL 2089; 10 CFR 430 Appendix Part 430 – ENERGY CONSERVATION PROGRAM FOR CONSUMER PRODUCTS; Appendix Y to Subpart B of Part 430 – Uniform Test Method for Measuring the Energy Consumption of Battery Chargers; EERE-2008-BT-STD-0005-0256; J62368-1 (H30)
Energy Efficiency	10 CFR Section 430.23 (aa) Appendix Y to Subpart B of Part 430; 10 CFR Section 430.23 (bb) Appendix Z to Subpart B of Part 430; CAN/CSA C381.1:2017; CAN/CSA C381.2:2017; CSA C381.1:2008 + Update 1:2010; EN 50563:2011 + A1:2013; BS EN 50563:2011 + A1:2013; IEC 62301 Ed 2:2011; AS/NZS 4665.1:2005 + A1:2009; AS/NZS 4665.2:2005 + A1:2009; AS/NZS IEC 62301:2014; Test Method for Calculating Energy Efficiency (August 2004) – Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies
ENERGY STAR® Audio/Video	ENERGY STAR Program Requirements Product Specification for Audio/Video Test Method, Version 3.0
Computers	ENERGY STAR Program Requirements Product Specification for Computers Test Method Version 8.0
Computer Servers	ENERGY STAR; Program Requirements Product Specification for Computer Servers Version 3.0
Displays	ENERGY STAR Program Requirements Product Specification for Displays Test Method Version 8.0
Imaging Equipment	ENERGY STAR Program Requirements Product Specification for Imaging Equipment-Test Method for Determining Imaging Equipment Energy Use Version 3.0
Set Top Boxes	ENERGY STAR Program Requirements for Set-top Boxes Version 5.1
Small Network Equipment	ENERGY STAR Test Method for Small Network Equipment, Program Requirements Version 1.0
Telephony	ENERGY STAR Program Requirements Product Specifications for Telephony Test Method Version 3.0
Television	CEA-2037-A (2014);

<u>Test Technology:</u>	<u>Test Method(s) ^{1,2,3:}</u>
Television (<i>cont'd</i>)	ENERGY STAR Test Method for Televisions, ENERGY STAR Program Requirements Product Specification for Televisions Version 8.0; 10 CFR 430 Subpart B Appendix H Uniform Test Method for Measuring the Power Consumption of Television Sets
Water Coolers	ENERGY STAR Test Method for Water Coolers Version 2.0
Connected Thermostat Products	ENERGY STAR Connected Thermostat Products: Method to Demonstrate Field Savings, Version 1.0 (rev. Dec-2016); ENERGY STAR Product Specification for Connected Thermostat Products: Eligibility Criteria, Version 1.0 (Rev. Jan 2017); IEC 62301:2011 Household electrical appliances - Measurement of standby power
Smart Home Energy Management Systems	ENERGY STAR Product Specification for Smart Home Energy Management Systems - Eligibility Criteria Version 1.0 ENERGY STAR Method to Determine Field Performance for Smart Home Energy Management Systems
Electric Vehicle Supply Equipment	ENERGY STAR Electric Vehicle Supply Equipment Test Method – Rev. Apr-2017 ENERGY STAR Test Method for Determining Display Energy – Rev. Feb-2020 ANSI/CEA-2037-A Determination of Television Set Power Consumption; ANSI/CTA-2037-B Determination of Television Set Power Consumption; ENERGY STAR Program Requirements for Electric Vehicle Supply Equipment Eligibility Criteria Version 1.0 Rev. Apr-2017
Mechanical	
Degrees of Protection (Enclosures)	AS 60529; EN 60529; BS EN 60529; IEC 60529
Glow Wire	EN 60695-2-10; BS EN 60695-2-10
Environmental Testing	
Electric and Electronic Products	IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-6; IEC 60068-2-11; IEC 60068-2-14; IEC 60068-2-27; IEC 60068-2-30; IEC 60068-2-31; IEC 60068-2-38; IEC 60068-2-45; IEC 60068-2-52; IEC 60068-2-64; IEC 60068-2-78; ASTM B117; ASTM B368; ASTM G85; ISO 9227
Lighting	JEDEC JESD22-A100D; JEDEC JESD22-A101D; JEDEC JESD22-A103E; JEDEC JESD22-A104E; JEDEC JESD22-A105C; JEDEC JESD22-A107C; JEDEC JESD22-A108D; JEDEC JESD22-A119A; JEDEC JESD22-B103B; JEDEC JESD22-B104C
Railway Applications	IEC 60571; EN 50155; IEC 60077-1; IEC 61373
Plastics	ISO 4892-3; ASTM G154
Paint Film	ASTM D3359; ASTM D3363

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 above.

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 This laboratory meets A2LA *R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these tests at the following locations **only**:

BAY AREA COMPLIANCE LABORATORIES CORP. (KUNSHAN)
No. 248 Chenghu Road
Kunshan, Jiangsu Province,
People's Republic of China

BAY AREA COMPLIANCE LABORATORIES CORP. (CHENGDU)
No. 5040, Huilongwan Plaza
No 1 Shawan Road
Jinniu District Chengdu, Sichuan,
People's Republic of China

BAY AREA COMPLIANCE LABORATORIES CORP. (SHENZHEN)
6/F, the 3rd Phase of WanLi Industrial Building
Shihua Road, Futian Free Trade Zone
Shenzhen, Guangdong 518038
People's Republic of China

³ When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is required 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, ANSI C63.4a:2017	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

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 without DFS Intentional Radiators</u> Part 15E	ANSI C63.10:2013	40000
<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</u> <u>(FCC Licensed Radio Service Equipment)</u> Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
<u>General Mobile Radio Services</u> <u>(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-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
<u>Maritime and Aviation Radio Services</u> Parts 80 and 87	ANSI/TIA-603-E; ANSI C63.26:2015	40000
<u>Microwave and Millimeter Bands Radio Services</u> Parts 25, 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz) and 101	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	325000
<u>Broadcast Radio Services</u> Parts 73 and 74 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
<u>RF Exposure</u> Devices Subject to SAR Requirements	IEEE Std 1528:2013	6000
<u>Hearing Aid Compatibility</u> Part 20 (HAC for Commercial Mobile Services)	ANSI C63.19:2011	2650
<u>Signal Boosters</u> Part 20 (Wideband Consumer Signal Boosters, Provider-specific signal boosters, and Industrial Signal Boosters), Section 90.219	ANSI C63.26:2015	40000

⁴Accreditation 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. (DONGGUAN)

Dongguan, 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 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 21st day of December 2020.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4820.01
Valid to October 31, 2022

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