



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid to: October 31, 2021

Certificate Number: 4338.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests:

Test Technology:

Radiated and Conducted Emissions

Test Method(s)¹:

CFR 47, FCC Part 15B (using ANSI C63.4:2014);
CFR 47, FCC Part 18 (using MP-5:1986);
AS/NZS CISPR 32; CISPR 32; EN 55032;
AS/NZS CISPR 11; CISPR 11; EN 55011;
AS/NZS CISPR 22; CISPR 13; EN 55013;
AS/NZS CISPR 14.1; CISPR 14-1; EN 55014-1;
AS/NZS CISPR 15; CISPR 15; EN 55015;
AS/NZS 61000.6.3; EN 61000-6-3; IEC 61000-6-3;
AS/NZS 61000.6.4; EN 61000-6-4; IEC 61000-6-4;
ICES-001; ICES-003; ICES-005;
EN 61326; EN 62493; EN 50130-2; EN 55103-4;
IEC/EN 60945; IEC 61543; IEC/EN 62040-2;
EN 61326-2-1; EN 61326-2-2; EN 61326-2-3;
EN 61326-2-4; EN 61326-2-5; EN 61326-2-6;
EN 50121-1/-2/-4/-5;
VCCI V-3 (up to 6 GHz); VCCI-4; VCCI-CISPR 32:2016;
J 55013; J 55014-1

Harmonic Current

IEC/EN 61000-3-2, AS/NZS 61000.3.2

Voltage Fluctuations and Flicker

IEC/EN 61000-3-3, AS/NZS 61000.3.3

Immunity

Electrostatic Discharge (ESD)

IEC/EN 61000-4-2

Radiated Immunity

IEC/EN 61000-4-3

Electrical Fast Transient/Burst

IEC/EN 61000-4-4

Test Technology:

Immunity (Cont'd)

Surge Immunity

Conducted Immunity

Power Frequency Magnetic Field

Voltage Dip & Interrupt

Generic or Product Specific
Immunity Standards

Product Safety

Test Method(s)¹:

IEC/EN 61000-4-5

IEC/EN 61000-4-6

IEC/EN 61000-4-8 (excluding short duration mode)

IEC/EN 61000-4-11

CISPR 24; EN 55024;
CISPR 35; EN 55035;
CISPR 14-2; EN 55014-2;
CISPR 20; EN 55020;
IEC 61000-6-1; EN 61000-6-1; AS/NZS 61000.6.1;
IEC 61000-6-2; EN 61000-6-2; AS/NZS 61000.6.2
EN 61547;

AS/NZS 60950.1; IEC/EN 60950-1;
AZ/NZS 60065; IEC/EN 60065;
AS/NZS 62368.1; IEC/EN 62368-1
IEC/EN 62115;
AS/NZS61347.1; IEC/EN 61347-1;
AS/NZS61347.2.13; IEC/EN 61347-2-13;
AS/NZS61558.1; IEC/EN 61558-1;
AS/NZS61558.2.16; IEC/EN 61558-2-16;
IEC/EN 62560;
BS 1363-1; BS 1363-3;
EN 50075;
AS/NZS 3112;
EN 62471:2008; IEC 62471:2006
EN 50332-1:2013; EN 50332-2:2013;
IEC/EN 60598-1 (excluding: 4.12.5, 4.18.2, 9.2, 4.20, 4.24,
4.26;
AS/NZS 60598.1 (excluding: 4.12.5, 4.18.2, 9.2, 4.20,
4.24, 4.26;
IEC/EN 60598-2-1 (excluding: 4.12.5, 4.18.2, 9.2, 4.20,
4.24, 4.26;
AS/NZS60598.2.1 (excluding: 4.12.5, 4.18.2, 9.2, 4.20,
4.24, 4.26);
IEC/EN 60598-2-2 (excluding: 4.12.5, 4.18.2, 9.2, 4.20,
4.24, 4.26);
AS/NZS60598.2.2 (excluding: 4.12.5, 4.18.2, 9.2, 4.20,
4.24, 4.26);
IEC/EN 60598-2-4; (excluding: 4.12.5, 4.18.2, 9.2, 4.20,
4.24, 4.26);
AS/NZS60598.2.4; (excluding: 4.12.5, 4.18.2, 9.2, 4.20,
4.24, 4.26);

Test Technology:

Product Safety (Cont'd)

Test Method(s)¹:

IEC/EN 60335-1 (excluding: 21.2, 22.1, 22.7, 22.32, 22.46, 22.47, 22.48, 27.4);
AS/NZS 60335.1 (excluding: 21.2, 22.1, 22.7, 22.32, 22.46, 22.47, 22.48, 27.4);
IEC/EN 60335-2-2 (excluding: 21.2, 22.1, 22.7, 22.32, 22.46, 22.47, 22.48, 27.4);
AS/NZS 60335.2.2 (excluding: 21.2, 22.1, 22.7, 22.32, 22.46, 22.47, 22.48, 27.4);
IEC/EN 60335-2-15 (excluding: 21.2, 22.1, 22.7, 22.32, 22.46, 22.47, 22.48, 27.4);
AS/NZS 60335.2.15 (excluding: 21.2, 22.1, 22.7, 22.32, 22.46, 22.47, 22.48, 27.4);
IEC/EN 60335-2-23 (excluding: 21.2, 22.1, 22.7, 22.32, 22.46, 22.47, 22.48, 27.4);
AS/NZS 60335.2.23 (excluding: 21.2, 22.1, 22.7, 22.32, 22.46, 22.47, 22.48, 27.4);
IEC/EN 60335-2-29 (excluding: 21.2, 22.1, 22.7, 22.32, 22.46, 22.47, 22.48, 27.4);
AS/NZS 60335.2.29 (excluding: 21.2, 22.1, 22.7, 22.32, 22.46, 22.47, 22.48, 27.)

Radio Communication

CFR 47, FCC Part 15 Subpart C/D/E/F
(using ANSI C63.4:2014, ANSI C63.10:2013,
FCC KDB 905462 D02 (v01), and ANSI C63.17:2013);
CFR 47, FCC Part 20, 22, 24, 25, 27, 73, 74, 90, 95, 96, 97
and 101 (using ANSI/TIA-603-E, TIA-102.CAAA-E, and
FCC KDB 935210 D03, D04, and D05);
AS/NZS 4268; AS/NZS 4771;
RSS 119; RSS 130; RSS 131; RSS 132; RSS 133;
RSS 135; RSS 137; RSS 139; RSS 192; RSS 195; RSS
197; RSS 199; RSS 210; RSS 213; RSS 215; RSS 216;
RSS 220; RSS 236; RSS 247; RSS 310; RSS Gen;
ARIB STD-T33; ARIB STD-T66;
ARIB STD-T67; ARIB STD-T81;
ARIB STD-T89; ARIB STD-T90; ARIB STD-T71;
ARIB STD-T91; ARIB STD-T100; ARIB STD-T101;
ARIB STD-T106; ARIB STD-T107;
ARIB STD-T108; ARIB STD-T94 Fascicle 1;
RCR STD-1; RCR STD-29; RCR STD-33;
ETSI EN 300 086; ETSI EN 300 113; ETSI EN 300 296;
ETSI TS 101 789-1; ETSI EN 303 405;
ETSI EN 300 220-1; ETSI EN 300 200-2;
ETSI EN 300 220-3-1; ETSI EN 300 220-3-2;
ETSI EN 300 220-4; ETSI EN 300 328; ETSI EN 300 330;
ETSI EN 300 386; ETSI EN 300 440;
ETSI EN 300 422-1; ETSI EN 300 422-2;
ETSI EN 300 422-3; ETSI EN 300 422-4;
ETSI EN 300 609-4; ETSI EN 301 502; ETSI EN 301 357;
ETSI EN 301 406;



Test Technology:

Radio Communication (Cont'd)

Test Method(s)¹:

ETSI EN 301 489-01 (*excluding section 9.6*);
ETSI EN 301 489-03; ETSI EN 301 489-04;
ETSI EN 301 489-05; ETSI EN 301 489-06;
ETSI EN 301 489-07; ETSI EN 301 489-08;
ETSI EN 301 489-09; ETSI EN 301 489-17;
ETSI EN 301 489-19; ETSI EN 301 489-23;
ETSI EN 301 489-24; ETSI EN 301 489-25;
ETSI EN 301 489-26; ETSI EN 301 489-34;
ETSI EN 301 489-50; ETSI EN 301 489-52;
ETSI EN 301 511; ETSI EN 301 526;
ETSI EN 301 783; ETSI EN 301 893;
ETSI EN 301 908-01; ETSI EN 301 908-02;
ETSI EN 301 908-04; ETSI EN 301 908-06;
ETSI EN 301 908-11; ETSI EN 301 908-13;
ETSI EN 301 908-15; ETSI EN 301 908-16;
ETSI EN 302 065-1; ETSI EN 302 065-2;
ETSI EN 302 065-3; ETSI EN 302 065-4;
ETSI EN 302 208; ETSI EN 302 291-1;
ETSI EN 302 291-2; ETSI EN 302 502; ETSI EN 303 204;
ETSI EN 303 345; ETSI EN 303 413;
ETSI EN 303 417; ETSI EN 303 609;
ETSI EN 305 550; ETSI EN 300 718; ETSI EN 303 520;
ETSI EN 303 203; ETSI EN 303 258; ETSI EN 302 729;
ETSI EN 302 372; ETSI EN 302 858; ETSI EN 303 396;
TS 38.101-1/-2/-3; TS38.113; TS 38.124;
TS 38.521-1/-2/-3/4; TS 36.101; TS 34.121; TS 51.010

SAR & HAC

FCC OET Bulletin 65 Supplement C;
IEEE 1528:2013, IEEE Std C95.1; IEEE Std C95.3;
RSS 102 (SAR, RF Exp., NS);
EN 62209-1; EN 62209-2;
IEC 62209-1; IEC 52209-2; EN 50360;
EN 50566; EN 50361; EN 62479; EN 50385; EN 50383;
EN 62311;; EN 50364; EN 50663; EN 50665;
EN 62369; C63.19; SPR-002, Australian Communications
Authority Radio Communications (Electromagnetic
Radiation – Human Exposure) Standard 2014;
FCC Part 20 (Using ANSI C63.19:2011)



Test Technology:

Bluetooth

JATE

Test Method(s)¹:

Bluetooth Radio and Protocol Conformance Testing:
RF:1;
RF-PHY1 (including Core Specification Addendum 5);
RF-PHY2;
External Protocols:1;
Traditional Profile:1;
GATT-Based Profile & Service:1

JATE Blue Book, Green Book;
Ordinance Concerning Terminal Facilities etc.
(Ministerial Ordinance of the Ministry of Posts and
Telecommunications No. 31 of April 1, 1985 as amended
last by the Ministerial Ordinance of the Ministry of Public
Management, Home Affairs, Posts and
Telecommunications No. 44 of March 22, 2004)

On the following products or types of products:

Information Technology Equipment (ITE), Industrial, Scientific and Medical Equipment (ISM);
Household Appliances, Electric Tools and similar Apparatus; Electrical Lighting and similar Equipment;
Unintentional Radiators; Intentional Radiators; Sound and Television Broadcast Receivers and associated
Equipment.

Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1¹

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 (February 1986)	40000
<u>Intentional Radiators</u> Part 15C	ANSI C63.10:2013	40000
<u>Unlicensed Personal Communication Systems Devices</u> Part 15D	ANSI C63.17:2013	20000
<u>U-NIII without DFS Intentional Radiators</u> Part 15E	ANSI C63.10:2013	40000
<u>U-NIII with DFS Intentional Radiators</u> Part 15E	FCC KDB 905462 D02 (v02)	40000
<u>UWB Intentional Radiators</u> Part 15F	ANSI C63.10:2013	40000
<u>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; TIA-102.CAAA-E	40000
<u>General Mobile Radio Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97, and 101 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E	40000
<u>Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)</u> Part 96	ANSI/TIA-603-E	40000
<u>Microwave and Millimeter Bands Radio Services</u> Parts 25, 74, 90 (90Y, 90Z, DSRC), and 101	ANSI/TIA-603-E; TIA-102.CAAA-E	40000



Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1¹

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Broadcast Radio Services</u> Parts 73 and 74 (below 3 GHz)	ANSI/TIA-603-E	40000
<u>Hearing Aid Compatibility</u> Part 20 (HAC for Commercial Mobile Services)	ANSI C63.19:2011	6000
<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; FCC KDB 935210 D03, D04, and D05	40000

¹Accreditation 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

SHENZHEN STS TEST SERVICES CO., LTD.

Shenzhen, 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 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 29th day of October 2019.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4338.01
Valid to October 31, 2021

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



Certificate of Acceptance

To participate
in the IECEE CB Scheme – IEC System of Conformity Assessment Schemes for Electrotechnical
Equipment and Components (IECEE)

SHENZHEN STS TEST SERVICES CO., LTD.

**1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,
Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China**

has been assessed and determined to fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IEC CA 01 and IECEE 01-S, Rules of Procedure IECEE 02, and the relevant IECEE CB-Scheme Operational Documents, as valid at the date of the assessment.

SHENZHEN STS TEST SERVICES CO., LTD.

is therefore entitled to operate as a CB Testing Laboratory (CBTL) under the responsibility of **Element Materials Technology** as National Certification Body (NCB) and to carry out testing within the IECEE CB Scheme for the Scope (Product Category(ies) and Standard(s)) as listed in the relevant part of the IECEE Web Site at www.iecee.org, and is subject to all other terms as set forth in the IECEE Basic Rules and Rules of Procedure.

The IECEE membership status of this CBTL can be verified on the aforementioned site.

Accepted since: 2021-04-21
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TL776

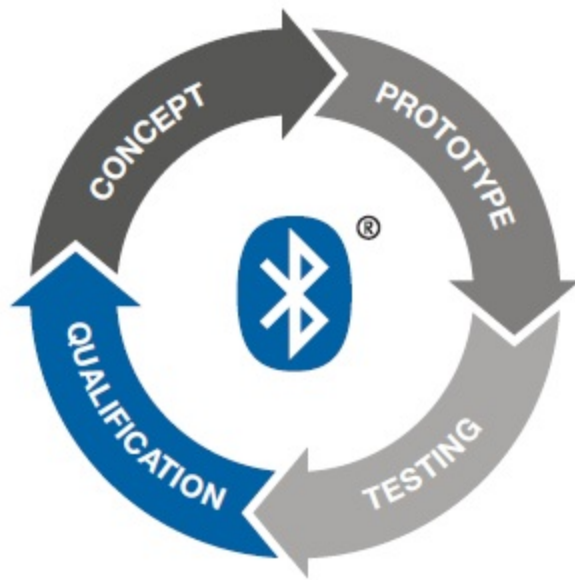


A handwritten signature in blue ink, reading 'Wolfram Zeitz'.

Wolfram Zeitz
IECEE Executive Secretary

BQTF Bluetooth® Qualification Test Facility

The Bluetooth SIG Hereby Recognizes



SHENZHEN STS TEST SERVICES CO.,LTD.

as competent to serve as a Bluetooth Qualification Test Facility assisting members to perform those tests for the following test scopes:

RF:1

RF-PHY:2

External Protocols:1

Traditional Profile:1

GATT-Based Profile&Service:1

31 August 2021

Date