Accredited Laboratory

A2LA has accredited

TUV RHEINLAND (GUANGDONG) LTD

Guangzhou, 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 21st day of July 2021.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4302.01
Valid to September 30, 2023

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

TUV RHEINLAND (GUANGDONG) LTD.
No. 110, 1/F., Building B, No.102, 1F of Southwest and No.205, 2F of West Warehouse Building,
No.767 Tianyuan Road, Tianhe District,
Guangzhou 510650,
Guangdong, People's Republic of China
Mrs. Tina Jiang Phone: +86 20 2839 1888 ext. 1368

ELECTRICAL

Valid To: September 30, 2023 Certificate Number: 4302.01

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

Test Technology:	**Test Method(s)[1]:**
Emissions	
Radiated and Conducted (*up to 26.5 GHz*)	FCC 47 CFR Part 15, Subpart B (using ANSI C63.4:2014); FCC 47 CFR Part 18 (using MP-5:1986) CISPR 11; EN 55011; BS EN 55011; AS/NZS CISPR 11; J55011; CISPR 12; EN 55012; BS EN 55012; AS/NZS CISPR 12; CISPR 14-1; EN 55014-1; EN IEC 55014-1; BS EN 55014-1; BS EN IEC 55014-1; AS/NZS CISPR 14.1; J55014-1; CISPR 15; EN 55015; EN IEC 55015; BS EN 55015; BS EN IEC 55015; AS/NZS CISPR 15; J55015; CISPR 22; EN 55022; J55022; CISPR 32; EN 55032; BS EN 55032; AS/NZS CISPR 32; J55032; AS/NZS 61000.6.3; AS/NZS 61000.6.4; GB 14023; GB 4343.1; GB 4824; GB/T 9254; GB/T 17743; ICES-Gen; ICES-001; ICES-002; ICES-003; ICES-005; J55001
Radio *(excluding SAR and HAC, up to 26.5 GHz)* ***US***	FCC 47 CFR Part 15, Subpart C (using ANSI C63.10:2013); FCC 47 CFR Part 74 (*below 3 GHz*); ANSI/TIA-603 E

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

Test Technology:	**Test Method(s)[1]:**
Canada	RSS-GEN; RSS-210; RSS-310; RSS-247; RSS-123; RSS-135; RSS-215; RSS-216
Current Harmonics	EN 61000-3-2; EN IEC 61000-3-2; BS EN 61000-3-2; BS EN IEC 61000-3-2 GB 17625.1; IEC 61000-3-2
Flicker and Fluctuations	EN 61000-3-11; EN IEC 61000-3-11; BS EN 61000-3-11; BS EN IEC 61000-3-11; EN 61000-3-3; BS EN 61000-3-3; GB/T 17625.2; IEC 61000-3-11; IEC 61000-3-3
Immunity	
Electrostatic Discharge	IEC 61000-4-2; GB/T 17626.2; EN 61000-4-2; BS EN 61000-4-2
Radiated *(80 MHz - 6 GHz, 28 V/m)*	EN 61000-4-3; BS EN 61000-4-3; IEC 61000-4-3; GB/T 17626.3
Electrical Fast Transient/Burst	IEC 61000-4-4; EN 61000-4-4; BS EN 61000-4-4; GB/T 17626.4
Surge	IEC 61000-4-5; EN 61000-4-5; BS EN 61000-4-5; GB/T 17626.5
Conducted	GB/T 17626.6; IEC 61000-4-6; EN 61000-4-6; BS EN 61000-4-6
Power Frequency Magnetic Field *(excluding short duration mode)*	GB/T 17626.8; IEC 61000-4-8; EN 61000-4-8; BS EN 61000-4-8
Voltage Dips, Short Interruptions, and Voltage Variations	EN 61000-4-11; BS EN 61000-4-11; GB/T 17626.11; IEC 61000-4-11
Harmonics and Interharmonics	EN 61000-4-13; BS EN 61000-4-13; IEC 61000-4-13; GB/T 17626.13

Test Technology:	**Test Method(s)[1]:**
Generic/Product Specific EMC Standards	
Generic/Product Specific EMC Standards	CISPR 14-2; CISPR 24; IEC 61547; CISPR 35; EN 50270; BS EN 50270; EN 55014-2; EN IEC 55014-2; BS EN 55014-2; BS EN IEC 55014-2; EN 55024; BS EN 55024; EN 61547; BS EN 61547; EN 55035; BS EN 55035; EN 55103-1; EN 55103-2; BS EN 55103-1; BS EN 55103-2; IEC 60601-1-2; EN 60601-1-2; BS EN 60601-1-2; IEC 61000-6-3; EN 61000-6-3; EN IEC 61000-6-3; BS EN 61000-6-3; BS EN IEC 61000-6-3; IEC 61000-6-4; EN 61000-6-4; EN IEC 61000-6-4; BS EN 61000-6-4; BS EN IEC 61000-6-4; IEC 61000-6-1; EN 61000-6-1; EN IEC 61000-6-1; BS EN 61000-6-1; BS EN IEC 61000-6-1; IEC 61000-6-2; EN 61000-6-2; EN IEC 61000-6-2; BS EN 61000-6-2; BS EN IEC 61000-6-2; IEC 61204-3; EN 61204-3; EN IEC 61204-3; BS EN 61204-3; BS EN IEC 61204-3; IEC 61326-1; EN 61326-1; EN IEC 61326-1; BS EN 61326-1; BS EN IEC 61326-1; IEC 61326-2-1; EN 61326-2-1; EN IEC 61326-2-1; BS EN 61326-2-1; BS EN IEC 61326-2-1; IEC 61326-2-2; EN 61326-2-2; EN IEC 61326-2-2; BS EN 61326-2-2; BS EN IEC 61326-2-2; IEC 61326-2-3; EN 61326-2-3; EN IEC 61326-2-3; BS EN 61326-2-3; BS EN IEC 61326-2-3; IEC 61326-2-4; EN 61326-2-4; EN IEC 61326-2-4; BS EN 61326-2-4; BS EN IEC 61326-2-4; IEC 61326-2-5; EN 61326-2-5; EN IEC 61326-2-5; BS EN 61326-2-5; BS EN IEC 61326-2-5; IEC 61326-2-6; EN 61326-2-6; EN IEC 61326-2-6; BS EN 61326-2-6; BS EN IEC 61326-2-6; IEC 61131-2; EN 61131-2; BS EN 61131-2; EN 50130-4; BS EN 50130-4; EN ISO 14982; EN 14982; BS EN ISO 14982; BS EN 14982; GB 17799.3; GB 17799.4; GB/T 4343.2; GB/T 17618; GB/T 17799.1; GB/T 17799.2; GB/T 18268.1; GB/T 18268.21; GB/T 18268.22; GB/T 18268.23; GB/T 18268.24; GB/T 18268.25; GB/T 18268.26; GB/T 18595; GB/T 15969.2; GB/T 21560.3; GB/T 21398; GB/T 19954.1; GB/T 19954.2; YY 0505

Test Technology:	**Test Method(s)[1]:**
Automotive Standards	EN 50498; BS EN 50498
RF Exposure	
MPE Calculation only	RSS-102; IEC 62311, EN 62311; EN IEC 62311; BS EN 62311; BS EN IEC 62311; IEC 62479, EN 62479; BS EN 62479
Assessment of lighting equipment related to human exposure to electromagnetic fields	IEC 62493; EN 62493; BS EN 62493

On the following products and materials:
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; RF Equipment

[1] When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, 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.1[2]:

Rule Subpart/Technology	**Test Method**	**Maximum Frequency (MHz)**
Unintentional Radiators		
Part 15B	ANSI C63.4:2014	26500
Industrial, Scientific, and Medical Equipment		
Part 18	FCC MP-5:1986	26500
Intentional Radiators		
Part 15C	ANSI C63.10:2013	26500

[2] 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.