



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CENTRE TESTING INTERNATIONAL GROUP CO., LTD.<sup>1</sup>  
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Block 70, Bao'an District  
Shenzhen, Guangdong, 518101, People's Republic of China  
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ELECTRICAL (EMC)

Valid To: November 30, 2020

Certificate Number: 3061.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, *as well as the satellite laboratory location listed below*, to perform the following electrical tests:

<u>Test Technology:</u>	<u>Test Method(s):</u>
<b><i>Emissions</i></b>	
Radiated and Conducted ( <i>Radiated to 40 GHz</i> )	CFR 47, FCC Part 15, Subpart B (using ANSI C63.4:2014); CFR 47, FCC Part 18 (using MP-5:1986); ICES-001; ICES-003; ICES-005; CISPR 11; EN 55011; AS/NZS CISPR 11; CISPR 13; EN 55013; AS/NZS CISPR 13; CISPR 14-1; EN 55014-1; AS/NZS CISPR 14.1; CISPR 15; EN 55015; AS/NZS CISPR 15; CISPR 22; EN 55022; AS/NZS CISPR 22; CISPR 32; EN 55032; AS/NZS CISPR 32; VCCI-CISPR 32:2016 IEC 61000-6-3; EN 61000-6-3; AS/NZS 61000.6.3; IEC 61000-6-4; EN 61000-6-4; GB/T 9254; GB/T 13837; GB/T 17743; GB/T 19286; GB 4343.1; GB 4824; GB 17799.3; ISO 7637-2
Harmonic Current Emissions	IEC 61000-3-2; EN 61000-3-2; GB 17625.1
Voltage Changes, Fluctuations, and Flicker	IEC 61000-3-3; EN 61000-3-3; GB/T 17625.2

<b><u>Test Technology:</u></b>	<b><u>Test Method(s):</u></b>
<b><i>Immunity</i></b>	
Electrostatic Discharge (ESD)	IEC 61000-4-2; EN 61000-4-2; ISO 10605; GB/T 17626.2; GB/T 19951
Radiated Immunity	IEC 61000-4-3; EN 61000-4-3; GB/T 17626.3
Electrical Fast Transient/Burst (EFT)	IEC 61000-4-4; EN 61000-4-4; GB/T 17626.4
Surge Immunity	IEC 61000-4-5; EN 61000-4-5; GB/T 17626.5
Conducted Immunity	IEC 61000-4-6; EN 61000-4-6; GB/T 17626.6
Power Frequency Magnetic Field	IEC 61000-4-8 ( <i>excluding short duration mode</i> ); EN 61000-4-8 ( <i>excluding short duration mode</i> ); GB/T 17626.8 ( <i>excluding short duration mode</i> )
Voltage Dips, Short Interruptions, and Voltage Variations	IEC 61000-4-11; EN 61000-4-11; GB/T 17626.11; IEC 61000-4-29; EN 61000-4-29; GB/T 17626.29
Transient Testing	ISO 7637-2; ISO 7637-3; GB/T 21437.2
Harmonics and Interharmonics	IEC 61000-4-13; EN 61000-4-13; GB/T 17626.13
Electromagnetic Fields (EMF)	IEC 50366; EN 50366; IEC 62233; EN 62233
Product Standards	CISPR 24; EN 55024; GB/T 17618; IEC 61547; EN 61547; GB/T 18595; CISPR 14-2; EN 55014-2; GB/T 4343.2; EN 61000-6-1; EN 61000-6-1; GB/T 17799.1; IEC 61000-6-2; EN 61000-6-2; GB/T 17799.2; EN 300 386; GB/T 19286; EN 61326-1; EN 61326-2-1; EN 61326-2-2; EN 61326-2-3; EN 61326-2-4; EN 61326-2-5; EN 61326-2-6; IEC 61326-1; IEC 61326-2-1; IEC 61326-2-2; IEC 61326-2-3; IEC 61326-2-4; IEC 61326-2-5; IEC 61326-2-6; IEC 60601-1-2; EN 60601-1-2; EN 50130-4; EN 300 220-1; EN 300 220-2; ETSI EN 300 220-3-1; ETSI EN 300 220-3-2; ETSI EN 300 220-4; ETSI EN 300 330; EN 300 440-1; EN 300 440-2; ETSI EN 300 440; EN 301 357-1; EN 301 357-2; ETSI EN 301 357; EN 301 489-1; EN 301 489-3; EN 301 489-17; EN 301 489-7; EN 301 489-9; EN 301 489-24; ETSI EN 301 489-19; ETSI EN 301 489-52; AS/NZS 4268; YY-0505; YD/T 1591; GB/T 19484.1; GB/T 22450.1; CISPR 35; EN 55035; GB/T 9383; CISPR 20; EN 55020

<u>Test Technology:</u>	<u>Test Method(s):</u>
RF Testing	<p>EN 300 422-1; EN 300 422-2; ETSI EN 300 422-3; EN 302 291-1; EN 302 291-2;</p> <p>ETSI EN 302 208; EN 300 328; EN 301 511 (<i>excluding clauses 4.2.3, 4.2.7, 4.2.8, 4.2.9, 4.2.14, 4.2.15, 4.2.18, &amp; 4.2.19</i>); EN 301 893; EN 301 908-1; EN 301 908-2; EN 301 908-13;</p> <p>3GPP TS 51.010-1; TS 151 010-1; 3GPP TS 34.121-1; TS 134 121-1 (only clauses 5.2, 5.2A, 5.2B, 5.4.3, 5.4.4, 5.4.4A, 5.9, 5.9A, 5.9B, 5.10, 5.10A.4, 5.10B.4, 5.11, 6.4, 6.5, 6.6, 6.7, &amp; 6.8); 3GPP TS 36.521-1; TS 136 521-1 (only clauses 6.2.2, 6.3.2, 6.6.2.1, 6.6.2.3, 6.6.3.1, 6.6.3.2, 7.5, 7.6.1, 7.6.2, 7.6.3, 7.7, 7.8, &amp; 7.9);</p> <p>CFR 47, Part 15, subpart C (using ANSI C63.10:2013) (<i>up to 40 GHz</i>); CFR 47, Part 15, subpart E (using ANSI C63.10:2013); CFR 47, Part 15, subpart E (using FCC KDB 905462); CFR 47, FCC Parts 22, 24, 25, 27, (using TIA-603-E-2016, ANSI/TIA-102.CAAA-E, and ANSI C63.26:2015);</p> <p>RSS-GEN; RSS-130; RSS-132; RSS-133; RSS-139; RSS-210; RSS-216; RSS-247; RSS-310;</p> <p>YD/T 1214 (using YD/T 1215); YD/T 1548.1; YD/T 1595.1; YD/T 2218.1; YD/T 2576.2; YD/T 2578.2; YD/T 2583.14;</p> <p>ARIB STD-T66; ARIB STD-T71 ARIB STD-T92; ARIB STD-T93</p>



<b><u>Test Technology:</u></b>	<b><u>Test Method(s):</u></b>
<b>SAR</b>	ANSI/IEEE Std. C95.1; IEEE Std. C95.3; IEEE Std. 1528:2013; EN 50383; EN 50385; EN 50364; EN 50566; IEC 62209-2; EN 62209-2; EN 50360; IEC 62209-1; EN 62209-1; EN 62479; IEC 62311; EN 62311; IEC 62479; EN 50663; 47 CFR§2.1091; 47 CFR§2.1093; 47 CFR§1.1307; 47 CFR§1.1310; RSS-102; AS/NZS 2772.1; AS/NZS 2772.2; GB 21288; YD/T 1644.1; GB/T 28446.1; YD/T 1644.2;  ARIB STD-T56; ICNIR Guidelines 1998; Safety Code 6; Radiation Protection Series Publication No.3; Radio communications (Electromagnetic Radiation - Human Exposure) Standard 2014
<b>BQTF</b>	
	RF:1 RF-PHY:1 RF-PHY:2 External Protocols:1 Traditional Profile:1 GATT-Based Profile & Service:1
<b>Safety</b>	
Product Safety	AZ/NZS 60950.1; EN 60950-1; UL 60950-1; IEC 60950-1 <i>(excluding clauses: 2.10.8.4, 3.4.7, and 4.2.8, and Annexes: H, K, Q, U, Y, Zx, and AA)</i>

<sup>1</sup> This accreditation covers testing performed at the main laboratory listed above, and the following satellite laboratory listed below:

CENTRE TESTING INTERNATIONAL GROUP CO., LTD.<sup>1</sup>  
 Building C, Taohuayuan Technology Innovation Park  
 Bao'an District  
 Shenzhen, Guangdong, 518101, People's Republic of China  
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<b><u>Test Technology:</u></b>	<b><u>Test Method(s):</u></b>
<b><i>Emissions</i></b>	
Radiated (Only radiated emissions testing for these standards) (Radiated to 40GHz)	CFR 47, FCC Part 15, Subpart B (using ANSI C63.4:2014); CFR 47, FCC Part 18 (using MP-5:1986); CISPR 11; EN 55011; AS/NZS CISPR 11; CISPR 13; EN 55013; AS/NZS CISPR 13; CISPR 14-1; EN 55014-1; AS/NZS CISPR 14.1; CISPR 15; EN 55015; AS/NZS CISPR 15; CISPR 22; EN 55022; AS/NZS CISPR 22; IEC 61000-6-3; EN 61000-6-3; IEC 61000-6-4; EN 61000-6-4; GB/T 9254; GB/T 13837; GB/T 17743; GB/T 17625.2; GB/T 18655; GB/T 19286; GB/T 21437.2; GB 4824; GB 4343.1; GB 17625.1; GB 17799.3; GB 17799.4; AS/NZS 61000.6.3; AS/NZS 61000.6.4; VCCI V-3 (up to 6 GHz); IEC 60601-1-2; EN 60601-1-2; YY-0505; IEC 61326-2-6; EN 61326-2-6; EN 301 489-1; EN 301 489-3; EN 301 489-17; EN 301 489-7; EN 301 489-9; EN 301 489-24; EN 301 489-19; EN 301489-52; ICES-001; ICES-003; ICES-005; AS/NZS 4268; EN 300 386; GB/T 19484.1; GB/T 22450.1;  EN 300 328; ETSI EN 300 422-1; ETSI EN 300 422-2; ETSI EN 300 422-3; ETSI EN 301 511; ETSI EN 301 893; ETSI EN 301 908-1; ETSI EN 301 908-2; ETSI EN 301 908-13; ETSI EN 302 291-1; ETSI EN 302 291-2; ETSI EN 302 208;  3GPP TS 34.121-1; ETSI TS 134 121-1; 3GPP TS 36.521-1; ETSI TS 136 521-1; 3GPP TS 51.010-1; ETSI TS 151 010-1;



<b><u>Test Technology:</u></b>	<b><u>Test Method(s):</u></b>
<i>Emissions (cont.) Radiated (Radiated to 40GHz) (Only radiated emissions testing for these standards)</i>	CFR 47, Part 15, subpart C (using ANSI C63.10:2013); CFR 47, Part 15, subpart E (using ANSI C63.10:2013); CFR 47, FCC Parts 22, 24, 25, 27, (using ANSI/TIA-603-E-2016 and ANSI/TIA-102.CAAA-E);  RSS-GEN; RSS-132; RSS-133; RSS-139; RSS-210; RSS-216; RSS-247; RSS-310;  YD/T 1214; YD/T 1215; YD/T 1548.1; YD/T 1595.1; YD/T 2218.1; YD/T 2576.2; YD/T 2578.2; YD/T 2583.14

On the following products or types of products:

Information Technology Equipment (ITE), Low Power Unlicensed Intentional Radiators, Medical Electrical Equipment, Household Appliances, Electric Tools and Similar Apparatus, and General Lighting Devices.

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.1 <sup>2</sup> :		
<b>Rule Subpart/Technology</b>	<b>Test Method</b>	<b>Maximum Frequency (MHz)</b>
<u>Unintentional Radiators</u>		
Part 15B	ANSI C63.4:2014	40000 MHz
<u>Industrial, Scientific, and Medical Equipment</u>		
Part 18	FCC MP-5:1986	40000 MHz
<u>Intentional Radiators</u>		
Part 15C	ANSI C63.10:2013	40000 MHz
<u>U-NII without DFS Intentional Radiators</u>		
Part 15E	ANSI C63.10:2013	40000 MHz
<u>U-NII with DFS Intentional Radiators</u>		
Part 15E	FCC KDB 905462 D02 (v02)	40000 MHz
<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; ANSI C63.26:2015	40000 MHz
<u>RF Exposure</u>		
Devices Subject to SAR Requirements	IEEE Std 1528:2013	6000 MHz

<sup>2</sup> 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

### **CENTRE TESTING INTERNATIONAL GROUP 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 7<sup>th</sup> day of January 2019.

A blue ink signature of the Senior Director of Accreditation Services.

Senior Director, Accreditation Services  
For the Accreditation Council  
Certificate Number 3061.01  
Valid to November 30, 2020

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