



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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ELECTRICAL (EMC)

Valid To: August 31, 2018

Certificate Number: 3628.01

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

<u>Test Technology:</u>	<u>Test Method(s):</u>
Electromagnetic Compatibility	
<i>Emissions</i> Radiated and Conducted <i>(up to 40 GHz)</i>	CFR 47, FCC Part 15B (using ANSI C63.4:2014); CFR 47, FCC Part 18 (using MP-5:1986); CISPR 11; EN 55011; CISPR 13; EN 55013; AS/NZS CISPR 13; CISPR 14-1; EN 55014-1; CISPR 15; EN 55015; AS/NZS CISPR 15; CISPR 22; EN 55022; AS/NZS CISPR 22; CISPR 32; EN 55032; AS/NZS CISPR 32; EN 50561-1; EN 50561-3; EN 55103-1; EN 60601-1-2; EN 61204-3; EN 61326-1; EN 62040-2; IEC 62040-2; IEC 61204-3; IEC 61326-1; ICES-003; ICES-005; BETS-7; VCCI V-3 <i>(up to 6 GHz)</i> ; VCCI V-4; GB 9254; CNS 13438; CNS 13439; CNS 13783-1; J 55013; J 55014-1
Current Harmonics	IEC/EN 61000-3-2; AS/NZS 61000.3.2; GB 17625.1

<u>Test Technology:</u>	<u>Test Method(s):</u>
<i>Emissions (cont.)</i> Voltage Fluctuation and Flicker	IEC/EN 61000-3-3; AS/NZS 61000.3.3; GB 17625.2
<i>Immunity</i> Electrostatic Discharge (ESD)	IEC/EN 61000-4-2; AS/NZS 61000.4.2; GB/T 17626.2
Radiated Immunity	IEC/EN 61000-4-3; AS/NZS 61000.4.3; GB/T 17626.3
Electrical Fast Transient/Burst	IEC/EN 61000-4-4; AS/NZS 61000.4.4; GB/T 17626.4
Surge Immunity	IEC/EN 61000-4-5; AS/NZS 61000.4.5; GB/T 17626.5
Conducted Immunity	IEC/EN 61000-4-6; AS/NZS 61000.4.6; GB/T 17626.6
Power Frequency Magnetic Field Immunity	IEC/EN 61000-4-8; AS/NZS 61000.4.8; GB/T 17626.8
Voltage Dips, Short Interruptions, and Line Voltage Variations	IEC/EN 61000-4-11; AS/NZS 61000.4.11; GB/T 17626.11
<i>Generic and Product Specific EMC</i>	IEC/EN 61000-6-1; IEC/EN 61000-6-2; IEC/EN 61000-6-3; IEC/EN 61000-6-4; EN 50130-4; EN 50412-2-1; EN 55103-2; EN 55014-2; EN 55024; EN 61547; EN 50498; IEC/EN 60945; IEC 61547; EN 62310-2; IEC/EN 62135-2; IEC/EN 62040-2; IEC/EN 61800-3; IEC 61543; CISPR 14-2; CISPR 24; 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/EN 60974-10; EN 60870-2-1; IEC/EN 60255-26; EN 301489-1; EN 301489-3; EN 301489-4; EN 301489-5;

<u>Test Technology:</u>	<u>Test Method(s):</u>
<i>Generic and Product Specific EMC (cont.)</i>	EN 301489-7; EN 301489-9; EN 301489-17; EN 301489-19; EN 301489-20; EN 301489-23; EN 301489-24; EN 301489-25; EN 301489-26; EN 301489-33; EN 301489-34; EN 301489-35; GB 4343.2; GB/T 18268.1; GB/T 18268.26; YY 0505; YD 1032
<i>Telecommunications</i>	EN 300386
<i>Radio</i> <i>(up to 40 GHz)</i> <i>(excluding SAR and HAC)</i>	EN 300220-1; EN 300220-2; EN 300330-1; EN 300330-2; EN 302208-1; EN 302208-2; EN 302291-1; EN 302291-2; EN 300440-1; EN 300440-2; EN 301893; EN 302502; EN 300328; EN 301511; EN 301908-1; EN 301908-2; EN 301908-4; EN 301908-6; EN 301908-11; EN 301908-12; EN 301908-13; EN 301908-15; EN 300086-1; EN 300086-2; EN 300113-1; EN 300113-2; EN 300422-1; EN 300422-2; EN 302065; EN 301357-1; EN 301357-2; EN 300296-1; EN 300296-2; EN 301426; EN 301441; EN 301681; EN 301444; EN 303203-1; EN 303203-2; EN 303204-1; EN 303204-2; EN 302774; EN 302623; EN 302544-1; EN 302544-2; EN 302536-1; EN 302536-2; EN 302537-1; EN 302537-2; EN 301598; EN 302571; EN 301559-1; EN 301559-2; EN 50566; EN 62479; EN 62311; EN 50360; EN 50385; EN 50364; CFR 47, FCC Part 15 Subpart C (using ANSI C63.10:2013, [excluding clause 9]); CFR 47, FCC Part 15 Subpart D (using ANSI C63.17:2013); CFR 47, FCC Part 15 Subparts E & F (using ANSI C63.10:2013), KDB 558074; KDB 789033;



<u>Test Technology:</u>	<u>Test Method(s):</u>
<p><i>Radio (cont.)</i> <i>(up to 40 GHz)</i> <i>(excluding SAR and HAC)</i></p>	<p>CFR 47, FCC Part 22 (Subpart H), CFR 47, FCC Part 24 (Subpart E), CFR 47, FCC Part 25, CFR 47, FCC Part 27 (Subparts L & M), (using ANSI/TIA-603-D/ TIA-102.CAAA-D) KDB 971168; KDB 905462 CFR 47, FCC Part 90 (Subpart Y & Z), CFR 47, FCC Part 95, CFR 47, FCC Part 74 (Subpart E, F, & H), (using ANSI/TIA-603-D/ TIA-102.CAAA-D); ANSI/TIA 603-D; ANSI C63.26;</p> <p>RSS-GEN; RSS-102; RSS-111; RSS-112; RSS-123; RSS-130; RSS-132; RSS-133; RSS-134; RSS-139; RSS-192; RSS-194; RSS-195; RSS-197; RSS-199; RSS-210; RSS-216; RSS-247; RSS-310; BETS-8;</p> <p>AS/NZS 4268;</p> <p>RCR STD-1; RCR STD-15; RCR STD-33; ARIB STD-T57; ARIB STD-T64; ARIB STD-T66; ARIB STD-T67; ARIB STD-T71; ARIB STD-T89; ARIB STD-T91; ARIB STD-T92; ARIB STD-T93; ARIB STD-T96; ARIB STD-T106; ARIB STD-T108; ARIB STD-T109; ARIB STD-T112;</p> <p>LP 0002; PLMN 01; PLMN 08; PLMN 09; PLMN 10;</p> <p>YD/T 1082; YD 1139; YD 1169.1; YD 1169.2; YDC 063; YD/T 1031; YD/T 1312.1; YD/T 1596; YD/T 1711; YD/T 1038</p>
<p><i>Acoustic Testing</i></p>	<p>EN 50332-1; EN 50332-2</p>



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: ¹

Rule Subpart/Technology	Test Method	Maximum Frequency
Unintentional Radiators Part 15B	ANSI C63.4:2014	40000 MHz
Industrial, Scientific, and Medical Equipment Part 18	FCC MP-5 (February 1986)	40000 MHz
Intentional Radiators Part 15C	ANSI C63.10:2013	200000 MHz
Unlicensed Personal Communication Systems Devices Part 15D	ANSI C63.17:2013	20000 MHz
U-NIII without DFS Intentional Radiators Part 15E	ANSI C63.10:2013	40000 MHz
U-NIII with DFS Intentional Radiators Part 15E	FCC KDB 905462 D02 (v01)	40000 MHz
UWB Intentional Radiators Part 15F	ANSI C63.10:2013	40000 MHz
Commercial Mobile Services (FCC Licensed Radio Service Equipment) Parts 22 (cellular), 24, 25 (non-microwave), and 27	ANSI/TIA-603-D; TIA-102.CAAA-D	40000 MHz
General Mobile Radio Services (FCC Licensed Radio Service Equipment) Parts 22 (non-cellular), 90 (non-microwave), 95, 97, and 101 (non-microwave)	ANSI/TIA-603-D; TIA-102.CAAA-D	40000 MHz
Microwave and Millimeter Bands Radio Services Parts 25, 74, 90 (90Y, 90Z, DSRC), and 101	ANSI/TIA-603-D; TIA-102.CAAA-D	200000 MHz
Broadcast Radio Services Parts 73 and 74 (non-microwave)	ANSI/TIA-603-D; TIA-102.CAAA-D	40000 MHz

¹ 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

MRT TECHNOLOGY (SUZHOU) CO., LTD.

Suzhou, Jiangsu, 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 17025:2005 *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 8 January 2009).



Presented this 6th day of September 2016.

A handwritten signature in black ink, appearing to read "L. Shen", written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 3628.01
Valid to August 31, 2018
Revised July 05, 2017

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