



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL (EMC)

Valid To: September 30, 2024

Certificate Number: 1983.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Electromagnetic Compatibility, Bluetooth, Radio & Wireless, and Specific Absorption Rate (SAR) tests:

Tests:

Standards¹:

Emissions

Radiated & Conducted

CFR 47 FCC Parts 2
(Using ANSI C63.4-2014); ANSI C63.4a – 2017²;
ICES 001; ICES 002; ICES 003; ICES 004;
ICES 005; ICES 006;
RTCA/DO-160 D/E/F/G
(Section 21, Except Reverberation Method);
EN IEC 61000-6-3; IEC 61000-6-3; KS C 9610-6-3;
EN IEC 61000-6-4; IEC 61000-6-4; KS C 9610-6-4;
EN IEC 61000-6-1; IEC 61000-6-1; KS C 9610-6-1;
EN IEC 61000-6-2; IEC 61000-6-2; KS C 9610-6-2

Harmonic Current

EN 61000-3-2; IEC 61000-3-2; KS C 9610-3-2

Flicker

EN 61000-3-3; IEC 61000-3-3; KS C 9610-3-3

Immunity

Electrostatic Discharge (ESD)

EN 61000-4-2; IEC 61000-4-2; KS C 9610-4-4;
RTCA/DO-160 D/E/F/G
(Section 25)

Radiated Immunity

EN 61000-4-3; IEC 61000-4-3; KS C 9610-4-3;
ECE R10; ISO 11452-2; KS C 9990;
RTCA/DO-160 D/E/F/G
(Sections 19, 20 Except Reverberation Method)
(only Cat. R, S, T, W, Y)

Electrical Fast Transient/Burst

EN 61000-4-4; IEC 61000-4-4; KS C 9610-4-4;
RTCA/DO-160 D/E/F/G
(Section 17)

Tests:

Standards¹:

Immunity (Cont.)

Surge Immunity

EN 61000-4-5; IEC 61000-4-5; KS C 9610-4-5;
RTCA/DO-160 D/E/F/G
(Section 22)

Conducted Immunity

EN 61000-4-6; IEC 61000-4-6; KS C 9610-4-6;
RTCA/DO-160 D/E/F/G (section 18, 19, 20)

Power Frequency Magnetic Field Immunity

EN 61000-4-8; IEC 61000-4-8; KS C 9610-4-8;
(*Excluding Short Duration Mode*)

Impulse Magnetic Field Immunity

EN 61000-4-9; IEC 61000-4-9; KS C 9610-4-9

Voltage Dips, Short Interruptions, and Line
Voltage Variations

EN 61000-4-11; IEC 61000-4-11; KS C 9610-4-11

Ring Wave

EN 61000-4-12; IEC 61000-4-12

Harmonics and Interharmonics

EN 61000-4-13; IEC 61000-4-13

Voltage Fluctuation

EN 61000-4-14; IEC 61000-4-14

Conducted, Common Mode Disturbances

EN 61000-4-16; IEC 61000-4-16

Ripple

EN 61000-4-17; IEC 61000-4-17

Damped Oscillatory Wave

EN 61000-4-18; IEC 61000-4-18

Immunity to conducted, differential mode
disturbances and signaling

EN 61000-4-19; IEC 61000-4-19

Variation of Power Frequency

EN 61000-4-28; IEC 61000-4-28

Voltage Dips, Short Interruptions, and
Voltage Variations

EN 61000-4-29; IEC 61000-4-29;
EN 61000-4-34; IEC 61000-4-34

Transient Immunity on Supply Lines and
Non-Supply Lines

ISO 7637-2; ISO 7637-3

Bulk Current Injection

ISO 11452-4

Power Input

RTCA/DO-160 D/E/F/G (Section 16)

Tests:

Bluetooth

Bluetooth Protocol and Profile
Conformance Profile Interoperability

Bluetooth RF (BT Classic)

Bluetooth RF-PHY (BT Low Energy)

Radio, Wireless

Mobile Communication

(Excluding Protocol Conformance Testing)

Generic and Product Specific Standards

Standards¹:

Bluetooth Core and Profile Specifications

RF:1;
RF-PHY1;
RF-PHY2;
RF-PHY3;
Traditional Profiles and Protocols;
GATT-Based Profile & Service

RF Conformance Basic Rate + EDR

RF Conformance LE 1M, LE 2M, LE Coded PHY,
LE Stable Modulation Index, Direct Finding

47 CFR Parts 2 (Including SAR and MPE);
ARIB STD-T66; ARIB STD-T71; ARIB STD-T90;
TELEC T-241

GSM: TS 51.010-01; ETSI TS 151010-1

UMTS: TS 34.124; ETSI TS 134124

LTE: TS 36.124; ETSI TS 136124

EN 63044-5-1; IEC 63044-5-1; BS EN 63044-5-1;
EN 63044-5-2; IEC 63044-5-2; BS EN 63044-5-2;
EN 63044-5-3; IEC 63044-5-3; BS EN 63044-5-3;
EN 55011; CISPR 11; KS C 9811;
EN 55014-1; CISPR 14-1; KS C 9814-1;
EN 55014-2; CISPR 14-2; KS C 9814-2;
EN 55015; CISPR 15; KS C 9815;
EN 55032; CISPR 32; KS C 9832;
EN 55035; CISPR 35; KS C 9835

On the following products or types of products:

Information Technology Equipment (ITE), Industrial, Scientific and Medical Equipment (ISM), Automotive Equipment, Telecommunications 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*.

² ANSI C63.4a – 2017 is used to perform NSA in support of ANSI C63.4:2014 and should not be considered its own test method.

*Note: 3m and 10m semi-anechoic chambers