



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EUROFINS PRODUCT SERVICE GMBH
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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



Accredited Laboratory

A2LA has accredited

EUROFINS PRODUCT SERVICE GMBH

Reichenwalde, Germany

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 7th day of December 2022.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1983.01
Valid to September 30, 2024

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