

Scope of Accreditation

(Measurement Method)

Accreditation Number : VLAC-031
Expiration Date : April 25, 2023

[Name of Laboratory]

Mitsubishi Electric Engineering Co., Ltd.

[Test site name]

EMC Shizuoka Center

[Test site Address]

3-4-12 Toyoda Suruga-ku, Shizuoka-city, Shizuoka-pref. 422-8027 Japan

[Measurement Methods]

Emission test

Radiated disturbance : Enclosure Port

Disturbance electric field test

[Test condition] **On the reference ground plane, Measurement distance : 3 m**
Measurement Frequency Range : 30 MHz - 1 GHz

[Test condition] **Quasi Free Space**
Measurement Frequency Range : 1 GHz - 6 GHz

Disturbance magnetic field strength measurement [Test condition] **Loop Antenna**

Disturbance power measurement [Test condition] **Absorbing clamp**

Conducted disturbance Measurement: AC mains port

Voltage Measurement [Test condition] **AMN, High-impedance probe**

Conducted disturbance Measurement: DC power line port

Voltage Measurement [Test condition] **AMN, High impedance probe**

Conducted disturbance Measurement: Telecommunication port

Voltage Measurement [Test condition] **ISN, AAN**

Current Measurement [Test condition] **Current probe**

Immunity test

Electro static discharge test **Contact discharge, Air discharge, Indirect discharge**

Radiated electromagnetic field strength **Measurement Frequency Range : 80 MHz - 6 GHz**

Electrical fast transient/burst (EFT/B) **Mains port, Telecommunication/Signal port**

Surge **Mains port, Telecommunication/Signal port**

RF conducted interference **Mains port measurement Frequency Range : 150 kHz - 230 MHz**

Telecommunication/Signal port measurement Frequency Range : 150 kHz - 230 MHz

Radiated magnetic field

Interruptions and Voltage variations

Harmonic current

Harmonic current test, Voltage changes, Voltage fluctuations and Flicker test

Telecommunication equipment performance 2

Magnetic field strength (Magnetic probe)

Voluntary EMC Laboratory Accreditation Center Inc.

Scope of Accreditation

(Test standards)

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[Test standards]

Emission test

VCCI Technical Requirements: VCCI-CISPR 32^{*1}, J55032^{*1}, J55011, J55014-1

Technical requirements under the Electrical Appliances and Materials safety Act appendix 10

Chapter 4, Chapter 5 and chapter 7

FCC 47 CFR Part 15 Subpart B: ANSI C63.4-2014 (up to 6 GHz)

FCC 47 CFR Part 18: FCC MP-5 (up to 6 GHz)

CISPR 11, CISPR 14-1, CISPR 32^{*1}, EN 55011, EN 55014-1, EN 55032^{*1}

AS CISPR 11, AS CISPR 14.1, AS/NZS 61000.6.3, AS/NZS 61000.6.4

ICES-001, CNS 13803, CNS 13783-1, K00014-1, GB4343.1, GOST R51318.14.1

IEC 61000-6-3, EN 61000-6-3, IEC 61000-6-4, EN 61000-6-4

IEC 61800-3, EN 61800-3, IEC 61326-1, EN 61326-1, JIS C 61326-1, JIS C 4421

^{*1} : Except for broadcast radio receivers

Immunity test

CISPR 14-2, EN 55014-2

AS/NZS CISPR 14.2, AS/NZS 61000.6.1, AS/NZS 61000.6.2

K00014-1, GB4343.2, GOST R51318.14.2

IEC 61000-6-1, EN 61000-6-1, IEC 61000-6-2, EN 61000-6-2, JIS C 61000-6-1, JIS C 61000-6-2

IEC 61800-3, EN61800-3, IEC 61326-1 EN 61326-1, JIS C 61326-1

Harmonic Test in Public Low Voltage Systems

IEC 61000-3-2, EN 61000-3-2, JIS C 61000-3-2, IEC 61000-3-3, EN 61000-3-3

IEC 61000-3-11, EN 61000-3-11, IEC 61000-3-12, EN 61000-3-12

AS/NZS 61000.3.2, AS/NZS 61000.3.3, AS/NZS 61000.3.11, AS/NZS 61000.3.12

GB17625.1, GOST R51317.3.2, GOST R51317.3.3

IEC 61000-6-3, EN 61000-6-3, IEC 61800-3, EN 61800-3, IEC 61326-1, EN 61326-1, JIS C 61326-1

Telecommunication equipment performance 2

IEC 62233, EN 62233, EN 50366

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