

Scope of Accreditation

(Measurement Method)

Accreditation Number : VLAC-014

Expiration Date : October 31, 2023

[Name of Laboratory]

Mitsubishi Electric Corporation

[Test site name]

EMC Technology Center

[Test site Address]

5-1-1 Ofuna, Kamakura, Kanagawa, 247-8501, JAPAN

[Measurement Method]

Emission test

Radiated disturbance: Enclosure Port

Disturbance electric field test

[Test condition] **On the reference ground plane, Measurement distance: 3m/10m**
Measurement Frequency Range : 30 MHz - 1 GHz

[Test condition] **Quasi Free Space, Measurement Frequency Range : 1 GHz - 18 GHz**

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

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

Conducted disturbance Measurement: AC mains port

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

Conducted disturbance Measurement: Telecommunication port

Voltage measurement [Test condition] **ISN, Capacitive voltage probe**

Current measurement [Test condition] **Current probe**

Conducted disturbance Measurement: DC power line port

Voltage measurement [Test condition] **AMN, High-impedance 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 - 80 MHz

Radiated magnetic field

Interruptions and Voltage variations

Harmonic current

Harmonic current test

Voltage changes, Voltage fluctuations and Flicker test

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}

FCC 47CFR Part15 Subpart B :ANSI C63.4-2014^{*1} (up to 18 GHz)

FCC 47CFR Part18 :FCC MP-5 (up to 18 GHz)

CISPR 11, EN 55011, CISPR 14-1^{*2}, EN 55014-1^{*2}, CISPR 22, CISPR 32^{*1}, EN 55032^{*1}

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

IEC 62236-3-2, EN 50121-3-2

IEC 61326-1, EN 61326-1

IEC 61131-2, EN 61131-2

^{*1} Except for broadcast radio receivers, ^{*2} Except for measurement using LLAS

Immunity test

IEC 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11

CISPR 14-2, EN 55014-2, CISPR 24, EN 55024, CISPR 35^{*3}, EN 55035^{*3}

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

IEC 62236-3-2, EN 50121-3-2

IEC 61326-1, EN 61326-1

IEC 61131-2^{*4}, EN 61131-2^{*5},

^{*3} Except for broadcast radio receivers, xDSL, Annex G and H

^{*4} Except for IEC 61000-4-18/-4-29, ^{*5} Except for EN 61000-4-18/-4-29

Harmonic Test in Public Low Voltage Systems

IEC61000-3-2, EN61000-3-2, IEC61000-3-3, EN61000-3-3

IEC61000-6-3, EN61000-6-3

IEC 61326-1, EN 61326-1

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