

# Scope of Accreditation

(Measurement Method)

Accreditation Number: VLAC-014

Expiration Date: October 31, 2025

[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] AAN, 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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[Name of Laboratory]

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[Test standards]

## **Emission test**

VCCI Technical Requirements: VCCI-CISPR 32:2016\*<sup>1</sup>

FCC 47CFR Part15 Subpart B: ANSI C63.4-2014\*<sup>1</sup> (up to 18 GHz)

FCC 47CFR Part18: FCC MP-5 (February 1986) (up to 18 GHz)

CISPR 11:2015+A1:2016+A2:2021, EN 55011:2016+A1:2017+A11:2020+A2:2021

CISPR 14-1:2020\*<sup>2</sup>, EN IEC 55014-1:2021\*<sup>2</sup>

CISPR 32:2015+A1:2019\*<sup>1</sup>, EN 55032:2015+A1:2020+A11:2020\*<sup>1</sup>

IEC 61000-6-3:2020, EN IEC 61000-6-3:2021

IEC 61000-6-4:2018, EN IEC 61000-6-4:2019

IEC 61000-6-8:2020, EN IEC 61000-6-8:2020

IEC 62236-3-2:2018, EN 50121-3-2:2016+A1:2019

IEC 61326-1:2020, EN IEC 61326-1:2021

IEC 61131-2:2017, EN 61131-2:2017

\*<sup>1</sup> Except for broadcast radio receivers

\*<sup>2</sup> Except for measurement using LLAS

## **Immunity test**

IEC 61000-4-2:2008 /-4-3:2020 /-4-4:2012 /-4-5:2014+A1:2017 /-4-6:2013 /-4-8:2009 /-4-11:2020

EN 61000-4-2:2009 /-4-4:2012 /-4-5:2014+A1:2017 /-4-6:2014 /-4-8:2010

EN IEC 61000-4-3:2020 /-4-11:2020

CISPR 14-2:2020, EN IEC 55014-2:2021

CISPR 35:2016\*<sup>3</sup>, EN 55035:2017+A11:2020\*<sup>3</sup>

IEC 61000-6-1:2016, EN IEC 61000-6-1:2019

IEC 61000-6-2:2016, EN IEC 61000-6-2:2019

IEC 62236-3-2:2018, EN 50121-3-2:2016+A1:2019

IEC 61326-1:2020, EN IEC 61326-1:2021

IEC 61131-2:2017\*<sup>4</sup>, EN 61131-2:2017\*<sup>5</sup>

\*<sup>3</sup> Except for broadcast radio receivers, xDSL, Annex G and H

\*<sup>4</sup> Except for IEC 61000-4-18/-4-29

\*<sup>5</sup> Except for EN 61000-4-18/-4-29

## **Harmonic Test in Public Low Voltage Systems**

IEC 61000-3-2:2018+A1:2020, EN IEC 61000-3-2:2019+A1:2021

IEC 61000-3-3:2013+A1:2017, EN 61000-3-3:2013+A1:2019

IEC 61000-6-3:2020, EN IEC 61000-6-3:2021

IEC 61326-1:2020, EN IEC 61326-1:2021

## **Voluntary EMC Laboratory Accreditation Center Inc.**

The laboratory is only accredited for testing activities outlined within the test methods listed above.  
If test standards do not include the edition, it means the latest one at the date of renewal (11.1, 2023).