

Scope of Accreditation

(Measurement Method)

Accreditation Number : VLAC-023

Expiration Date : March 26, 2023

[Name of Laboratory]

Mitsubishi Electric Engineering Co., Ltd. EMC East Japan Center

[Test site name]

EMC East Japan Center

[Test site Address]

325 Kamimachiya, Kamakura-shi, Kanagawa 247-8520, JAPAN

[Measurement Methods]

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] **Absorbing Clamp**

Conducted disturbance Measurement: AC mains port / 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**

Immunity to transient disturbances conducted along supply lines

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

RF conducted interference **Mains port measurement frequency range : 150 kHz - 100 MHz**

Telecommunication/Signal port measurement frequency range : 150 kHz - 100 MHz

Bulk current injection test, measurement frequency range: 150 kHz - 100 MHz

Radiated magnetic field

Pulse magnetic immunity test

Interruptions and Voltage variations

Harmonic current

Harmonic current test

Voltage changes, Voltage fluctuations and Flicker test

Telecommunication equipment performance 2

Magnetic field strength [Test condition] **Magnetic probe**

Electric field strength [Test condition] **Electric field probe**

Voluntary EMC Laboratory Accreditation Center Inc.

Scope of Accreditation

(Test standards)

Accreditation Number : VLAC-023

Expiration Date : March 26, 2023

[Name of Laboratory]

Mitsubishi Electric Engineering Co., Ltd. EMC East Japan Center

[Test site name]

EMC East Japan Center

[Test site Address]

325 Kamimachiya, Kamakura-shi, Kanagawa 247-8520, JAPAN

[Test standards]

Emission test

VCCI Technical Requirements: VCCI-CISPR 32

FCC 47 CFR Part 15 Subpart B: ANSI C63.4-2014 (up to 18 GHz)

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

CISPR 11, CISPR 14-1, CISPR 32, EN 55011, EN 55014-1, EN 55032

Technical requirements under the Electrical Appliances and Materials safety Act appendix 10 Chapter 4 and Chapter5, J55014-1

AS CISPR 11, AS CISPR 14.1, AS/NZS CISPR 22, AS/NZS CISPR 32

AS/NZS 61000.6.3, AS/NZS 61000.6.4

ICES-003, CNS 13438, CNS 13783-1, KN 22, GB 4343.1, GB 9254

IEC 61000-6-3/-6-4, EN 61000-6-3/-6-4, EN 12015

IEC 61326-1, EN 61326-1, JIS C 61326-1

IEC 60601-1-2(Except for clause 8.11), EN 60601-1-2, JIS T 0601-1-2

Immunity test

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

CISPR 14-2, CISPR 24, CISPR 35*1, EN 55014-2, EN 55024, EN 55035*1

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

AS/NZS CISPR 14.2, AS/NZS CISPR 24, AS/NZS 61000.6.1, AS/NZS 61000.6.2

JIS C 61000-6-1/-6-2, EN 12016, KN 24, GB 4343.2

IEC 61326-1, EN 61326-1, JIS C 61326-1

IEC 60601-1-2(Except for clause 8.11), EN 60601-1-2, JIS T 0601-1-2

*1 : Excluding Annex A, Annex E, Annex F, Annex G and Annex H

Harmonic Test in Public Low Voltage Systems

IEC 61000-3-2/-3-3/-3-11/-3-12, EN 61000-3-2/-3-3/-3-11/-3-12, JIS C 61000-3-2

AS/NZS 61000.3.2, AS/NZS 61000.3.3, AS/NZS 3200.1.2,

IEC 61000-6-3, EN 61000-6-3, GB 17625.1

IEC 61326-1, EN 61326-1, JIS C 61326-1

IEC 60601-1-2(Except for clause 8.11), EN 60601-1-2, JIS T 0601-1-2

Telecommunication equipment performance 2

IEC62233, EN62233

Voluntary EMC Laboratory Accreditation Center Inc.