

Scope of Accreditation

(Measurement Method)

Accreditation Number : VLAC-017-2

Expiration Date : June 15, 2022

[Name of Laboratory]

TÜV Rheinland Japan Ltd.

[Test site name]

Mobility Technology Center

[Test site Address]

2-22 Nagata, Chiryu-shi, Aichi, Japan

[Measurement Method]

Emission test

Radiated disturbance : Enclosure Port

Disturbance electric field test

[Test condition] On the reference ground plane, In-vehicle equipment test (1m Method),
Measurement Frequency Range : 150 kHz - 2.5 GHz,

Conducted disturbance Measurement: DC power line port

Conductive interference test against in-vehicle equipment

Immunity test

Electro static discharge test

Contact discharge, Air discharge, Indirect discharge

Radiated electromagnetic field strength
against in-vehicle

Measurement Frequency Range: 80 MHz – 6 GHz

TEM cell

Measurement Frequency Range : 80 MHz – 6 GHz

Stripline

Measurement Frequency Range : 10 kHz – 200 MHz

Measurement Frequency Range : 10 kHz – 400 MHz

Electrical fast transient/burst (EFT/B)

Mains port, Telecommunication/Signal port

Immunity to transient disturbances conducted along supply lines / other than supply lines

Surge

Mains port

RF conducted interference

Mains port, measurement frequency range: 150 kHz – 80 MHz

Telecommunication/Signal port, measurement frequency range: 150 kHz – 80 MHz

Bulk current injection test, measurement frequency range: 1 MHz – 400 MHz

Vehicle /In-vehicle equipment test

ESA (In-vehicle equipment) Emission

ESA (In-vehicle equipment) Immunity

Telecommunication equipment performance 1

Based on European standards

Voluntary EMC Laboratory Accreditation Center Inc.

Scope of Accreditation

(Test standards)

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[Test standards]

Immunity test

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

EN 61000-4-2/-4-3/-4-4/-4-5/-4-6

Vehicle /In-vehicle equipment test

ECE R-10 Clause 6.5, 6.6, 6.7, 6.8, 6.9

CISPR 25 :2016^{*1}/2008^{*1}/2002^{*2}, EN 55025 :2016^{*1}/2008^{*1}/2002^{*2}

AS/NZS CISPR 25 :2016^{*1}/2008^{*1}/2002^{*2}

ISO 11452-2 : 2019/2004(80 MHz - 6 GHz), ISO 11452-3 : 2016/2001

ISO 11452-4 : 2011^{*3}/2005, ISO 11452-5

ISO 7637-2 : 2011/2004, ISO 7637-3 : 2016/2007/1995

ISO 10605 : 2008/2001/1994 (Except for vehicle test)

ISO 16750-2

^{*1} Except for vehicle test, TEM cell method (component/module measurement)
and Stripline method (component/module measurement)

^{*2} Except for vehicle test and TEM cell method (component/module measurement)

^{*3} Except for TWC test method

Telecommunication equipment performance 1

EN 301 489-1/ -3/ -17:V3.1.1/ -19(Immunity test only)

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