Scope of Accreditation

（Measurement Method）

Accreditation Number : VLAC-029

Expiration Date : February 9, 2020

〔Name of Laboratory〕

Sharp Corporation

〔Test site name〕

Sharp Nara Test Center

〔Test site Address〕

492 Minosho-Cho, Yamatokoriyama-Shi, Nara, 639-1186, Japan

Measurement Method

Emission test

Radiated disturbance : Enclosure Port

Disturbance electric field test (CISPR16-2-3, ANSI C63.4-2014)

[Test condition]	On the reference ground plane
	Measurement distance : 3m/10m
	Measurement Frequency Range : 30 MHz - 18 GHz
[Test condition]	Quasi Free Space
	Measurement Frequency Range : 1 GHz - 18 GHz

Conducted disturbance Measurement: AC mains port (CISPR 16-2-1, ANSI C63.4-2014)

[Test condition] AMN (CISPR16-1-2)

Conducted disturbance Measurement: Telecommunication port (CISP R 22, CISPR 32)

[Test condition] AMN (CISPR 22), AAN (CISPR32)

Immunity test

Electro static discharge test	IEC61000-4-2/EN 61000-4-2
Radiated electromagnetic field strength	IEC61000-4-3/EN 61000-4-3
	Measurement frequency range:80 MHz – 6 GHz
Electrical fast transient/burst (EFT/B)	IEC61000-4-4/EN 61000-4-4
	Mains port, Telecommunication/Signal port
Surge	IEC61000-4-5/EN 61000-4-5
	Mains port, Telecommunication/Signal port
RF conducted interference	IEC61000-4-6/EN 61000-4-6
	Mains port measurement frequency range:150 kHz – 80 MHz
	Telecommunication/Signal port measurement frequency range:150 kHz – 80 MHz
Radiated magnetic field	IEC61000-4-8/EN 61000-4-8
Interruptions and Voltage variations	IEC61000-4-11/EN 61000-4-11

Harmonic current

Harmonic current test (IEC61000-3-2, EN61000-3-2), Flicker test (IEC61000-3-3, EN61000-3-3)

Acoustics

Airborne noise emission test (ISO 7779)

Telecommunication equipment performance testing 1

Test based on European standards

Voluntary EMC Laboratory Accreditation Center Inc.

Scope of Accreditation

（Test standards）

Accreditation Number :VLAC-029
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Test standards

Emission test

VCCI Technical Requirements: V-3/VCCI-CISPR 32
FCC 47CFR/Part15 Subpart B /ANSI C63.4 -2014
CISPR 22, EN 55022, CISPR 32, EN 55032, CISPRJ 32
Technical requirements under the Electrical Appliances and Materials safety Act appendix 10 Chapter 4
J 55022, J 55013(Except for broadcasting receivers and video devices) , CISPRJ 32
AS/NZS CISPR 22, AS/NZS CISPR 32, ICES-003

Immunity test

CISPR 24 (Annex A and Annex H excluded), EN 55024 (Annex A and Annex H excluded)

Harmonic Test in Public Low Voltage Systems

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

Airborne noise emission test

ISO 7779, JIS X 7779
ECMA-74
German Blue Angel Mark: RAL-UZ 122, RAL-UZ 171, RAL-UZ 205
Japan Environment Association Eco Mark products category: No.117, No.122, No.155

Telecommunication equipment performance testing 1

EN 301 489-1/ -3/ -17

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