

# EMI TEST REPORT

## Test Report No. 15702455H-B-R1

Customer	NIDEC MOBILITY CORPORATION
Description of EUT	Body Control Module
Model Number of EUT	K84S0
FCC ID	OUCK84S0
Test Regulation	FCC Part 15 Subpart B
Test Result	Complied
Issue Date	April 22, 2025
Remarks	-

Representative test engineer

Tetsuro Yoshida  
Engineer

Approved by

Akihiko Maeda  
Leader

CERTIFICATE 5107.02

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 There is no testing item of "Non-accreditation".

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## **REVISION HISTORY**

### **Original Test Report No. 15702455H-B**

This report is a revised version of 15702455H-B. 15702455H-B is replaced with this report.

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	15702455H-B	March 25, 2025	-
1	15702455H-B-R1	April 22, 2025	<b>Section 2.2</b> Radio Specification [Receiver part] -Added IF frequency.  <b>APPENDIX 1</b> -Added below explanatory note. “The data No.6 and No.11 are for Local oscillator frequency (LOF). Although the measured frequency deviates from LOF, the frequency that is maximum in the vicinity of LOF is obtained.”

## Reference: Abbreviations (Including words undescribed in this report)

A2LA	The American Association for Laboratory Accreditation	Hori.	Horizontal
AAN	Asymmetric Artificial Network	ICES	Interference-Causing Equipment Standard
AC	Alternating Current	I/O	Input/Output
AE	Auxiliary equipment	IEC	International Electrotechnical Commission
AM	Amplitude Modulation	IEEE	Institute of Electrical and Electronics Engineers
AMN	Artificial Mains Network	IF	Intermediate Frequency
Amp, AMP	Amplifier	ILAC	International Laboratory Accreditation Conference
ANSI	American National Standards Institute	ISED	Innovation, Science and Economic Development Canada
Ant, ANT	Antenna	ISN	Impedance Stabilization Network
AP	Access Point	ISO	International Organization for Standardization
ASK	Amplitude Shift Keying	JAB	Japan Accreditation Board
Atten., ATT	Attenuator	LAN	Local Area Network
AV	Average	LCL	Longitudinal Conversion Loss
BPSK	Binary Phase-Shift Keying	LIMS	Laboratory Information Management System
BR	Bluetooth Basic Rate	LISN	Line Impedance Stabilization Network
BT	Bluetooth	MRA	Mutual Recognition Arrangement
BT LE	Bluetooth Low Energy	N/A	Not Applicable
BW	BandWidth	NIST	National Institute of Standards and Technology
C.F	Correction Factor	NS	No signal detect.
Cal Int	Calibration Interval	NSA	Normalized Site Attenuation
CAV	CISPR AV	OBW	Occupied BandWidth
CCK	Complementary Code Keying	OFDM	Orthogonal Frequency Division Multiplexing
CDN	Coupling Decoupling Network	PER	Packet Error Rate
Ch., CH	Channel	PK	Peak
CISPR	Comite International Special des Perturbations Radioelectriques	P <sub>LT</sub>	long-term flicker severity
Corr.	Correction	POHC(A)	Partial Odd Harmonic Current
CPE	Customer premise equipment	Pol., Pola.	Polarization
CW	Continuous Wave	PR-ASK	Phase Reversal ASK
DBPSK	Differential BPSK	P <sub>ST</sub>	short-term flicker severity
DC	Direct Current	QAM	Quadrature Amplitude Modulation
DET	Detector	QP	Quasi-Peak
D-factor, D.fac.	Distance factor	QPSK	Quadrature Phase Shift Keying
Dmax	maximum absolute voltage change during an observation period	r.m.s., RMS	Root Mean Square
DQPSK	Differential QPSK	RBW	Resolution BandWidth
DSSS	Direct Sequence Spread Spectrum	RE	Radio Equipment
DUT	Device Under Test	REV	Reverse
EDR	Enhanced Data Rate	RF	Radio Frequency
e.i.r.p., EIRP	Equivalent Isotropically Radiated Power	RFID	Radio Frequency Identifier
EM clamp	Electromagnetic clamp	RNSS	Radio Navigation Satellite Service
EMC	ElectroMagnetic Compatibility	RSS	Radio Standards Specifications
EMI	ElectroMagnetic Interference	Rx	Receiving
EMS	ElectroMagnetic Susceptibility	S.fac.	Site factor
EN	European Norm	SINAD	Ratio of (Signal + Noise + Distortion) to (Noise + Distortion)
e.r.p., ERP	Effective Radiated Power	S/N	Signal to Noise ratio
ETSI	European Telecommunications Standards Institute	SA, S/A	Spectrum Analyzer
EU	European Union	SABS	South African Bureau of Standards
EUT	Equipment Under Test	SANS	South African National Standards
Fac.	Factor	SG	Signal Generator
FCC	Federal Communications Commission	SVSWR	Site-Voltage Standing Wave Ratio
FHSS	Frequency Hopping Spread Spectrum	THC(A)	Total Harmonic Current
FM	Frequency Modulation	THD(%)	Total Harmonic Distortion
Freq.	Frequency	TR, T/R	Test Receiver
FSK	Frequency Shift Keying	Tx	Transmitting
Fund	Fundamental	UFA	Uniform field area
FWD	Forward	VBW	Video BandWidth
GFSK	Gaussian Frequency-Shift Keying	Vert.	Vertical
GNSS	Global Navigation Satellite System	WLAN	Wireless LAN
GPS	Global Positioning System	xDSL	Generic term for all types of DSL technology (DSL: Digital Subscriber Line)

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## **SECTION 1: Customer information**

Company Name	NIDEC MOBILITY CORPORATION
Address	6368, Nenjozaka, Okusa, Komaki, Aichi, 485-0802, Japan
Telephone Number	+81-568-78-6159
Contact Person	Takashi Betsui

The information provided by the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date and Test Date
- SECTION 4: Operation of EUT during testing

## **SECTION 2: Equipment under test (EUT)**

### **2.1 Identification of EUT**

Description	Body Control Module
Model Number	K84S0
Serial Number	Refer to SECTION 4.2
Condition	Production prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	February 21, 2025
Test Date	February 27, 2025

### **2.2 Product Description**

#### **General Specification**

Rating	DC 12 V
Operating temperature	Except Antennas: -40 deg. C to 85 deg. C Antennas: -40 deg. C to 90 deg. C

#### **Radio Specification**

[Transmitter part]

Equipment Type	Transceiver
Frequency of Operation	125 kHz
Type of Modulation	ASK

[Receiver part]

Equipment Type	Receiver
Frequency of Operation	433.92 MHz
IF frequency	274 kHz (Upper heterodyne)

### **SECTION 3: Test specification, procedures & results**

#### **3.1 Test Specification**

Test Specification	FCC Part 15 Subpart B The latest version on the first day of the testing period
Title	FCC 47CFR Part15 Radio Frequency Device Subpart B Unintentional Radiators

#### **3.2 Procedures and results**

Item	Test Procedure	Limits	Worst margin	Result	Remarks
Conducted emission	<b>FCC:</b> ANSI C63.4: 2014 + C63.4a: 2017 7. AC power - line conducted emission measurements	<b>FCC:</b> Part 15 Subpart B 15.107(a)	-	N/A	*1)
	<b>ISED:</b> RSS-Gen 7.1	<b>ISED:</b> RSS-Gen 7.2			
Radiated emission	<b>FCC:</b> ANSI C63.4: 2014 + C63.4a: 2017 8. Radiated emission measurements	<b>FCC:</b> Part 15 Subpart B 15.109(a)	19.29 dB 299.991 MHz, Horizontal, QP	Complied	-
	<b>ISED:</b> RSS-Gen 7.1	<b>ISED:</b> RSS-Gen 7.3			
	<b>ISED:</b> RSS-Gen 7.1	<b>ISED:</b> RSS-Gen 7.4			
Antenna Terminal	<b>FCC:</b> ANSI C63.4: 2014 + C63.4a: 2017 12. Measurement of unintentional radiators other than ITE	<b>FCC:</b> Part 15 Subpart B 15.111(a)	-	N/A	*2)
	<b>ISED:</b> RSS-Gen 7.1	<b>ISED:</b> RSS-Gen 7.4			

\* Note: UL Japan, Inc.'s EMI Work Procedure: Work Instructions-ULID-003591.

\*1) The test is not applicable since the EUT is not the device that is designed to be connected to the public utility (AC) power line.

\*2) The receiving antenna (of this EUT) is installed inside the EUT and cannot be removed (permanently attached). Therefore, Radiated emission test was performed.

#### **3.3 Addition to standard**

No addition, exclusion nor deviation has been made from the standard.

### 3.4 Uncertainty

Measurement uncertainty is not taken into account when stating conformity with a specified requirement. Note: When margins obtained from test results are less than the measurement uncertainty, the test results may exceed the limit.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor  $k = 2$ .

#### Radiated emission

Measurement distance	Frequency range		Unit	Calculated Uncertainty (+/-)
3 m	9 kHz to 30 MHz		dB	3.3
10 m			dB	3.1
3 m	30 MHz to 200 MHz	Horizontal	dB	5.0
		Vertical	dB	5.0
	200 MHz to 1000 MHz	Horizontal	dB	5.2
		Vertical	dB	6.2
10 m	30 MHz to 200 MHz	Horizontal	dB	5.5
		Vertical	dB	5.4
	200 MHz to 1000 MHz	Horizontal	dB	5.5
		Vertical	dB	5.5
3 m	1 GHz to 6 GHz		dB	5.1
	6 GHz to 18 GHz		dB	5.4
1 m	10 GHz to 18 GHz		dB	5.4
	18 GHz to 26.5 GHz		dB	5.3
	26.5 GHz to 40 GHz		dB	4.8
0.5 m	26.5 GHz to 40 GHz		dB	5.0

### 3.5 Test Location

UL Japan, Inc. Ise EMC Lab.  
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 Japan  
Telephone: +81-596-24-8999

A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919

ISED Lab Company Number: 2973C / CAB identifier: JP0002

Test site	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms	Maximum measurement distance
No.1 semi-anechoic chamber	19.2 x 11.2 x 7.7	7.0 x 6.0	No.1 Power source room	10 m
No.2 semi-anechoic chamber	7.5 x 5.8 x 5.2	4.0 x 4.0	-	3 m
No.3 semi-anechoic chamber	12.0 x 8.5 x 5.9	6.8 x 5.75	No.3 Preparation room	3 m
No.3 shielded room	4.0 x 6.0 x 2.7	N/A	-	-
No.4 semi-anechoic chamber	12.0 x 8.5 x 5.9	6.8 x 5.75	No.4 Preparation room	3 m
No.4 shielded room	4.0 x 6.0 x 2.7	N/A	-	-
No.5 semi-anechoic chamber	6.0 x 6.0 x 3.9	6.0 x 6.0	-	-
No.5 measurement room	6.4 x 6.4 x 3.0	6.4 x 6.4	-	-
No.6 shielded room	4.0 x 4.5 x 2.7	4.0 x 4.5	-	-
No.6 measurement room	4.75 x 5.4 x 3.0	4.75 x 4.15	-	-
No.7 shielded room	4.7 x 7.5 x 2.7	4.7 x 7.5	-	-
No.8 measurement room	3.1 x 5.0 x 2.7	3.1 x 5.0	-	-
No.9 measurement room	8.8 x 4.6 x 2.8	2.4 x 2.4	-	-
No.10 shielded room	3.8 x 2.8 x 2.8	3.8 x 2.8	-	-
No.11 measurement room	4.0 x 3.4 x 2.5	N/A	-	-
No.12 measurement room	2.6 x 3.4 x 2.5	N/A	-	-
Large Chamber	16.9 x 22.1 x 10.17	16.9 x 22.1	-	10 m
Small Chamber	5.3 x 6.69 x 3.59	5.3 x 6.69	-	-

### 3.6 Test data, Test instruments, and Test set up

Refer to APPENDIX.

## **SECTION 4: Operation of EUT during testing**

### **4.1 Operating Mode(s)**

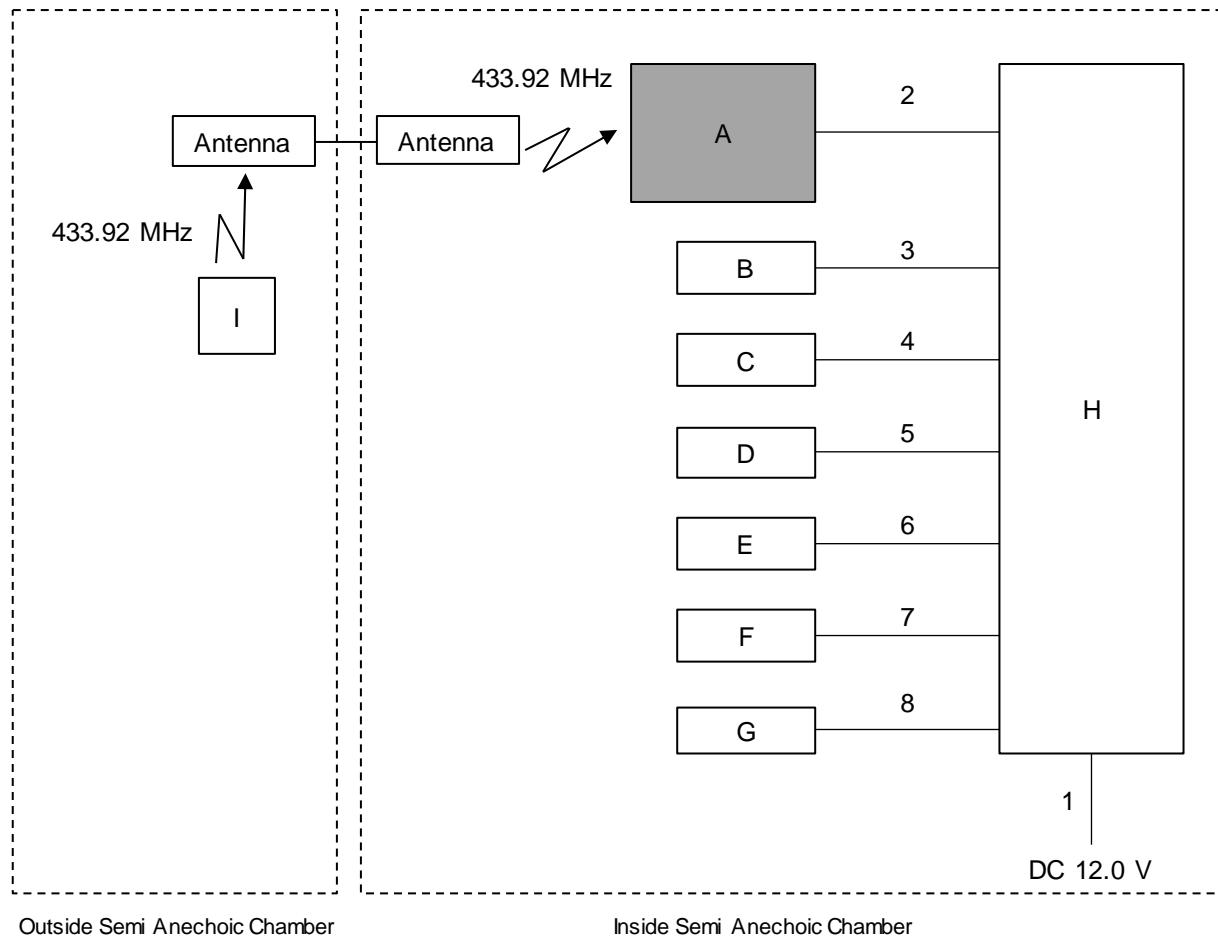
Mode	1. Receiving mode
Software(s)	F109024

\* The test signal level was confirmed to be sufficient to stabilize the local oscillator of the EUT.

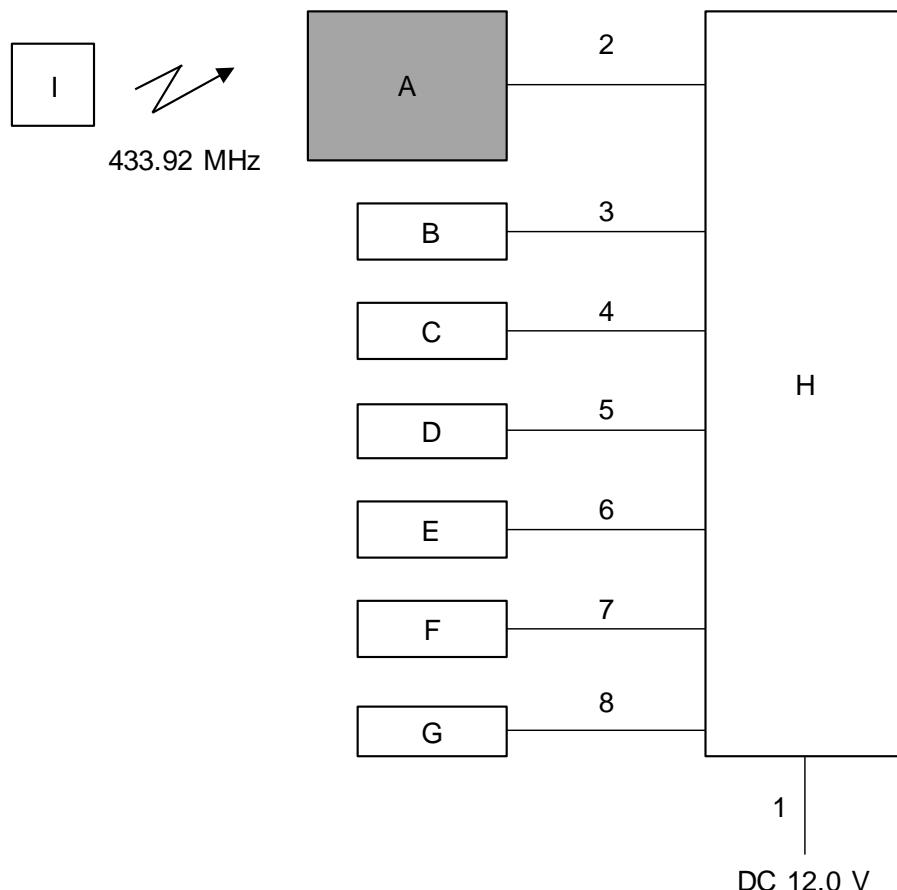
\* It was confirmed by using checker that the EUT receives the signal from the transmitter (pair of EUT).

### **4.2 Configuration and peripherals**

**[Below 1 GHz]**



[Above 1 GHz]



- \* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.
- \* The input voltage (DC 12 V) passes through Item No. H without affecting it and is supplied to the Body Control Module (Item No. A) without any drop in voltage.
- \* Item No. A includes Receiver Antenna.

**Description of EUT and Support Equipment**

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Body Control Module	K84S0	BCM No.1	NIDEC MOBILITY CORPORATION	EUT
B	LF Antenna-1 (TYPE 1)	CGF-S002-D01	001	NIDEC MOBILITY CORPORATION	-
C	LF Antenna-2 (TYPE 1)	CGF-S002-D01	002	NIDEC MOBILITY CORPORATION	-
D	LF Antenna-3 (TYPE 3)	CGF-S002-D01	003	NIDEC MOBILITY CORPORATION	-
E	LF Antenna-4 (TYPE 3)	CGF-S002-D03	004	NIDEC MOBILITY CORPORATION	-
F	LF Antenna-5 (TYPE 1)	CGF-S002-D03	005	NIDEC MOBILITY CORPORATION	-
G	PUSH START SWITCH	P55R0	No.1	NIDEC MOBILITY CORPORATION	-
H	SW Box	RV494	No.1	NIDEC MOBILITY CORPORATION	-
I	REMOCON	R55R3	No.1	NIDEC MOBILITY CORPORATION	-

**List of Cables Used**

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	1.00	Unshielded	Unshielded	-
2	Signal Cable	2.80	Unshielded	Unshielded	-
3	Signal Cable	2.50	Unshielded	Unshielded	-
4	Signal Cable	2.50	Unshielded	Unshielded	-
5	Signal Cable	2.50	Unshielded	Unshielded	-
6	Signal Cable	2.40	Unshielded	Unshielded	-
7	Signal Cable	2.40	Unshielded	Unshielded	-
8	Signal Cable	2.40	Unshielded	Unshielded	-

## **SECTION 5: Radiated Emission**

### **5.1 Operating environment**

Date : See data  
Test place : See data  
Temperature : See data  
Humidity : See data  
Test engineer : See data

### **5.2 Test configuration**

EUT was placed on a urethane platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane.

The EUT was set on the edge of the tabletop.

Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

Photographs of the set up are shown in APPENDIX 3.

### **5.3 Test conditions**

Frequency range : 30 MHz to 200 MHz (Biconical antenna)  
200 MHz to 1000 MHz (Logperiodic antenna)  
1000 MHz to 2000 MHz (Horn antenna)  
Test distance : 3 m  
EUT position : Table top  
EUT operation mode : See Clause 4.1

### **5.4 Test procedure**

The height of the measuring antenna varied between 1 and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver.

The radiated emission measurements were made with the following detector function of the Test Receiver. Test antenna was aimed at the emission source for receiving the maximum signal and always kept. (Above 1 GHz)

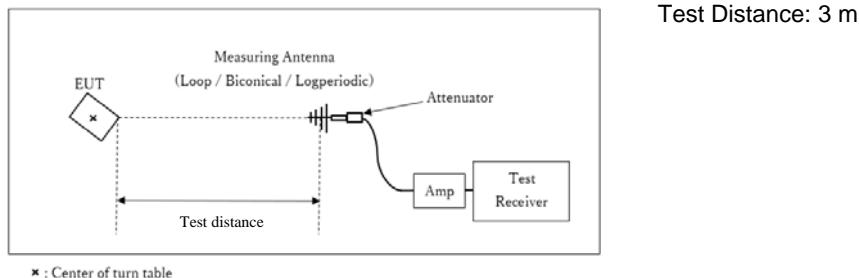
Frequency	Below 1 GHz	Above 1 GHz *1)
Instrument used	Test Receiver	Test Receiver
IF Bandwidth	QP: BW 120 kHz	PK: BW 1 MHz, CAV: BW 1 MHz

\*1) The measurement data was adjusted to a 3 m distance using the following Distance Factor.

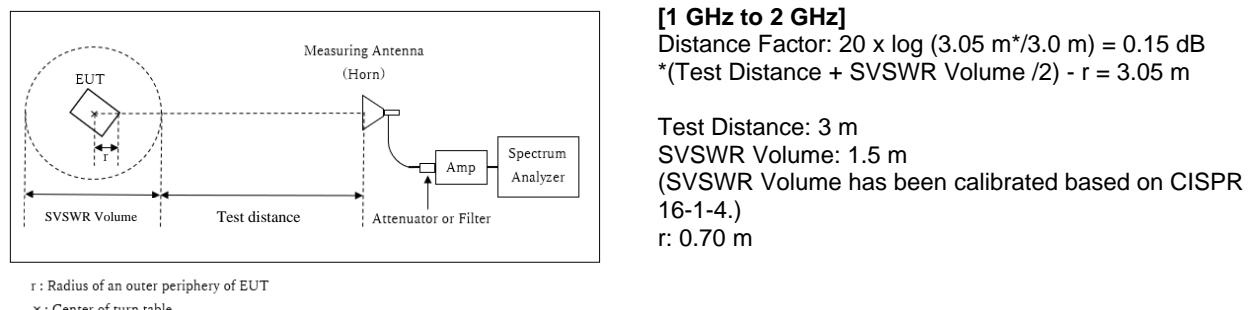
Distance Factor: See Figure 1.

**Figure 1: Test Setup**

Below 1 GHz



1 GHz to 2 GHz



- The noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

## 6.5 Test result

Summary of the test results: Pass

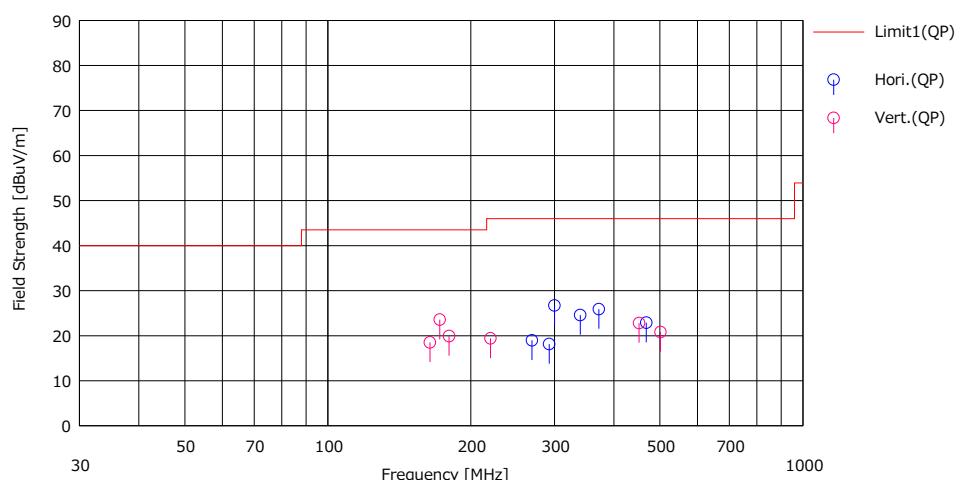
Test results are rounded off and limit are rounded down, so some differences might be observed.

## APPENDIX 1: Test data

### Radiated Emission

Test place Ise EMC Lab.  
 Semi Anechoic Chamber No.2  
 Date February 27, 2025  
 Temperature / Humidity 20 deg. C / 40 % RH  
 Engineer Tetsuro Yoshida  
 (Below 1 GHz)  
 Mode Mode 1

Limit : FCC\_Part 15 Subpart B(15.109)\_Class B



No.	Freq. [MHz]	Reading (QP)		Ant.Foc [dB/m]	Loss [dB]	Gain [dB]	Result (QP)	Limit (QP)	Margin (QP)	Pola.	Height [H,V] [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]	[dBuV/m]											
1	268.960	25.10	12.91	8.71	27.76	18.96	46.00	27.04	19.96	Hori.	100	163	LA21	
2	292.424	23.40	13.64	8.85	27.75	18.14	46.00	27.88	19.84	Hori.	100	0	LA21	
3	299.991	31.90	13.66	8.90	27.75	26.71	46.00	19.29	19.29	Hori.	130	135	LA21	
4	339.977	28.50	14.94	9.11	27.99	24.56	46.00	21.44	19.56	Hori.	100	0	LA21	
5	371.993	29.70	15.14	9.30	28.25	25.89	46.00	20.11	19.89	Hori.	100	133	LA21	
6	467.987	25.00	16.96	9.89	28.97	22.88	46.00	23.12	22.12	Hori.	100	166	LA21	
7	164.014	23.20	15.46	8.03	28.18	18.51	43.50	24.99	21.41	Vert.	100	0	BA	
8	172.000	27.80	16.82	8.06	28.14	23.55	43.50	19.94	19.94	Vert.	100	290	BA	
9	180.002	23.80	16.07	8.13	28.10	19.90	43.50	23.60	23.60	Vert.	100	10	BA	
10	219.997	27.60	11.31	8.40	27.91	19.40	46.00	26.60	26.60	Vert.	100	0	LA21	
11	451.979	25.20	16.67	9.82	28.89	22.80	46.00	23.20	23.20	Vert.	100	12	LA21	
12	501.537	22.10	17.82	10.02	29.13	20.81	46.00	25.19	25.19	Vert.	100	0	LA21	

#### CHART: WITH FACTOR

ANT TYPE: - 30 MHz: LOOP, 30 MHz - 200 MHz: BICONICAL, 200 MHz - 1000 MHz: LOGPERIODIC, 1000 MHz -: HORN

CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE + ATT) - GAIN(AMP)

Except for the above table: adequate margin data below the limits.

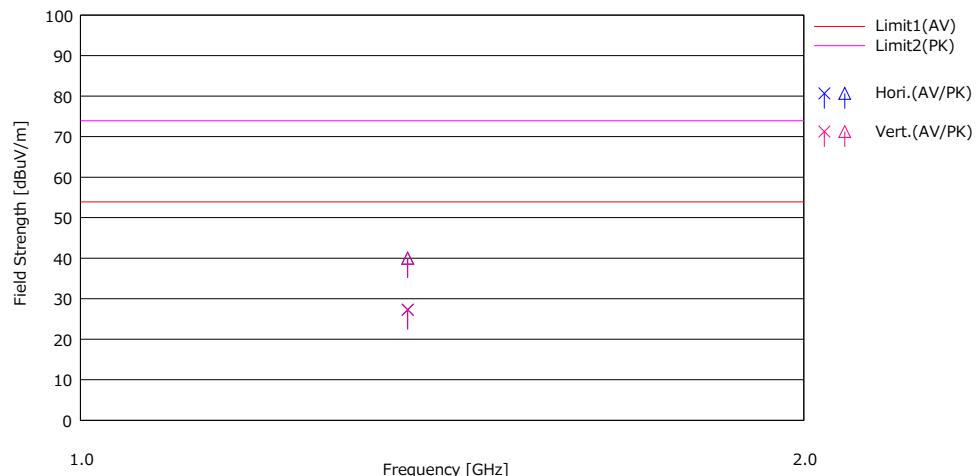
The data No.6 and No.11 are for Local oscillator frequency (LOF).

Although the measured frequency deviates from LOF, the frequency that is maximum in the vicinity of LOF is obtained.

## Radiated Emission

Test place Ise EMC Lab.  
 Semi Anechoic Chamber No.2  
 Date February 27, 2025  
 Temperature / Humidity 20 deg. C / 40 % RH  
 Engineer Tetsuro Yoshida  
 (Above 1 GHz)  
 Mode Mode 1

Limit : FCC\_Part 15 Subpart B(15.109)\_Class B



No.	Freq. [MHz]	Reading		Ant.Foc [dB/m]	Loss [dB]	Gain [dB]	Result		Limit		Margin		Pola.	Height [cm]	Angle [deg]	Ant. Type	Comment
		$\langle AV \rangle$ [dBuV]	$\langle PK \rangle$ [dBuV]				$\langle AV \rangle$ [dBuV/m]	$\langle PK \rangle$ [dBuV/m]	$\langle AV \rangle$ [dBuV/m]	$\langle PK \rangle$ [dBuV/m]	$\langle AV \rangle$ [dB]	$\langle PK \rangle$ [dB]					
		$\langle AV \rangle$ [dBuV]	$\langle PK \rangle$ [dBuV]				$\langle AV \rangle$ [dBuV/m]	$\langle PK \rangle$ [dBuV/m]	$\langle AV \rangle$ [dBuV/m]	$\langle PK \rangle$ [dBuV/m]	$\langle AV \rangle$ [dB]	$\langle PK \rangle$ [dB]					
1	1368.329	33.40	46.10	26.01	1.93	34.04	27.30	40.00	53.90	73.90	26.60	33.90	Hori.	100	0	HA6	
2	1368.329	33.40	46.10	26.01	1.93	34.04	27.30	40.00	53.90	73.90	26.60	33.90	Vert.	100	0	HA6	

CHART: WITH FACTOR

ANT TYPE: - 30 MHz: LOOP, 30 MHz - 200 MHz: BICONICAL, 200 MHz - 1000 MHz: LOGPERIODIC, 1000 MHz -: HORN

CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE + D-factor) - GAIN(AMP)

Except for the above table: adequate margin data below the limits.

## **APPENDIX 2: Test instruments**

### **Test equipment**

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	141265	Logperiodic Antenna (200-1000MHz)	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	9111B-190	07/10/2024	12
RE	141317	Coaxial Cable	UL-ISE	-	-	09/11/2024	12
RE	141331	Attenuator(6dB)	TME	UFA-01	-	02/19/2025	12
RE	141427	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103B+BBA9106	08031	07/30/2024	12
RE	141512	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	254	10/17/2024	12
RE	141542	Digital Tester	Fluke Corporation	FLUKE 26-3	78030611	08/06/2024	12
RE	141594	Pre Amplifier	Keysight Technologies Inc	8447D	2944A10150	02/19/2025	12
RE	141950	EMI Test Receiver	Rohde & Schwarz	ESU26	100412	11/28/2024	12
RE	142004	AC2_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	12/12/2023	24
RE	142006	AC2_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-06902	04/17/2023	24
RE	142228	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	244707	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202102	01/19/2025	12
RE	252663	Microwave Cable	Huber+Suhner	SF126E/11PC35/11PC35/1000MM,5000MM	616276/126E / 616275/126E	09/10/2024	12
RE	253739	Pre Amplifier	Keysight Technologies Inc	8449B	3008A01919	10/23/2024	12

**\*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.**

**The expiration date of the calibration is the end of the expired month.**

**As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.**

**All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.**

**Test item:**

**RE: Radiated emission**