

EMI TEST REPORT

Test Report No. 16222715H-C-R1

Customer	DENSO TEN Limited
Description of EUT	Car Audio
Model Number of EUT	TN0052E
FCC ID	BABTN0052E
Test Regulation	FCC Part 15 Subpart B
Test Result	Complied
Issue Date	May 14, 2026
Remarks	-

Representative test engineerShousei Hamaguchi
Engineer**Approved by**Ryota Yamanaka
Engineer

CERTIFICATE 5107.02

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

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 26.0

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- If the latest version is a revision, it replaces the previous version. See the table below for revisions and versions.

REVISION HISTORY

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	16222715H-C	April 20, 2026	-
1	16222715H-C-R1	May 14, 2026	SECTION 2.2: Radio Specification - Deletion of notes related to simultaneous transmission

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 _{LT}	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 _{ST}	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	DENSO TEN Limited
Address	2-28, Goshō-Dori 1-Chome, Hyogo-ku, Kobe, 652-8510, Japan
Telephone Number	+81-50-1727-9598
Contact Person	Kaoru Abe

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	Car Audio
Model Number	TN0052E
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 20, 2026
Test Date	March 1 to 10, 2026

2.2 Product Description

General Specification

Rating	DC 12 V
Operating temperature	-30 deg. C to 65 deg. C

Radio Specification

WLAN (IEEE802.11b/11g/11n-20/11ax-20)

Equipment Type	Transceiver	
Frequency of Operation	2412 MHz to 2462 MHz	
Type of Modulation	DSSS, OFDM	
	OFDMA (IEEE802.11ax Only)	26/52/106/242-tone RU
Antenna Gain	-0.43 dBi	

Bluetooth (BR/EDR/Low Energy)

Equipment Type	Transceiver	
Frequency of Operation	2402 MHz to 2480 MHz	
Type of Modulation	FHSS (GFSK, $\pi/4$ DQPSK, 8 DPSK) GFSK	
Antenna Gain ^{a)}	-0.95 dBi	

AM/FM

Equipment Type	Receiver	
Frequency of Operation	AM: 522 kHz to 1710 kHz FM: Band II: 87.5 MHz to 108.0 MHz	
Type of Modulation	AM FM	
Antenna Connector Type	HFC IV	
Impedance	75 ohm	

SECTION 3: Test Summary

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

Test specification	ICES-003 Issue 7
Title	Information Technology Equipment (including Digital Apparatus)

3.2 Reference Standards

ANSI/USEMCSC C63.2-2023
ANSI C63.4-2014+C63.4a-2017
ANSI C63.5-2017
ANSI C63.25.1-2018
IEEE 187:2003

3.3 Summary of Test Results

Item	Limits	Result	Remarks
Conducted emission	Part 15 Subpart B 15.107(a)	N/A	*1)
Radiated emission	Part 15 Subpart B 15.109(a)	Complied	-
Antenna Terminal	Part 15 Subpart B 15.111(a)	Complied	-

* 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.

3.4 Addition to standard

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

3.5 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	4.8
	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	9 kHz to 30 MHz		dB	4.7
	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

Antenna Terminal test

Frequency range	Unit	Calculated Uncertainty (+/-)
30 MHz to 1000 MHz	dB	3.5
1000 MHz to 2150 MHz	dB	3.4
2150 MHz to 40000 MHz	dB	3.4

3.6 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 (SAC1)	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 (SAC2)	7.5 x 5.8 x 5.2	4.0 x 4.0	-	3 m
No.3 semi-anechoic chamber (SAC3)	12.0 x 8.5 x 5.9	6.8 x 5.75	No.3 Preparation room (PR3)	3 m
No.3 shielded room (SR3)	4.0 x 6.0 x 2.7	N/A	-	-
No.4 semi-anechoic chamber (SAC4)	12.0 x 8.5 x 5.9	6.8 x 5.75	No.4 Preparation room (PR4)	3 m
No.4 shielded room (SR4)	4.0 x 6.0 x 2.7	N/A	-	-
No.5 semi-anechoic chamber (SAC5)	6.0 x 6.0 x 3.9	6.0 x 6.0	-	-
No.5 measurement room (MR5)	6.4 x 6.4 x 3.0	6.4 x 6.4	-	-
No.6 shielded room (SR6)	4.0 x 4.5 x 2.7	4.0 x 4.5	-	-
No.6 measurement room (MR6)	4.75 x 5.4 x 3.0	4.75 x 4.15	-	-
No.7 shielded room (SR7)	4.7 x 7.5 x 2.7	4.7 x 7.5	-	-
No.8 measurement room (MR8)	3.1 x 5.0 x 2.7	3.1 x 5.0	-	-
No.9 measurement room (MR9)	8.8 x 4.6 x 2.8	2.4 x 2.4	-	-
No.10 shielded room (SR10)	3.8 x 2.8 x 2.8	3.8 x 2.8	-	-
No.11 measurement room (MR11)	4.0 x 3.4 x 2.5	N/A	-	-
No.12 measurement room (MR12)	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	-	-

3.7 Test data, Test instruments, and Test set up

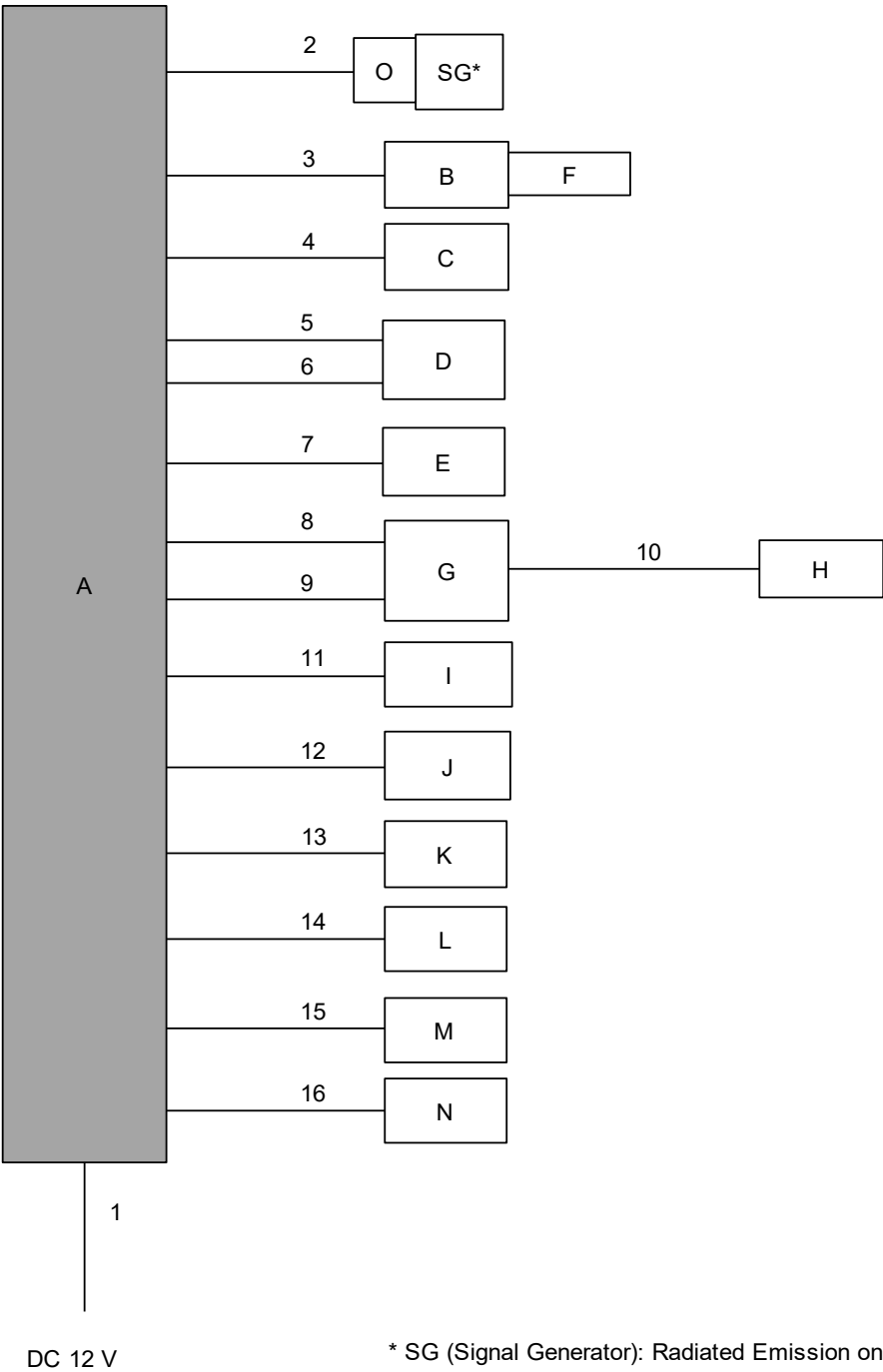
Refer to APPENDIX.

SECTION 4: Operation of EUT during testing

4.1 Operating Mode(s)

Mode	1. USB play
	2. FM Receiving
Software(s)	Version: 07.28.26.D

4.2 Configuration and peripherals



* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Car Audio	TN0052E	AYB00023	DENSO TEN Limited	EUT
B	USB Adapter	DEP38-10029	No.7	KP	-
C	Switch	-	-	-	-
D	Meter	83800-4AL70	No.12	DENSO	-
E	SF Antenna	86760-42110	No.1	Minebea Mitsumi	-
F	USB Memory	RUF3-K16GB	P10416	Buffalo Inc.	-
G	I/F Conversion Box	867B1-42010_3986	No.23	TOKAI RIKA	-
H	BGM Camera	8679B-42010	No.25	KYOCERA	-
I	MIC	86730-42130	No.100	KP	-
J	MIC	86730-42130	No.106	KP	-
K	Speaker	-	No.139	-	-
L	Speaker	-	No.140	-	-
M	Speaker	-	No.143	-	-
N	Speaker	-	No.144	-	-
O	FM/AM Dummy	-	20241218MH004 for Main port 20241218MH006 for Sub port	-	RE* only

*RE: Radiated Emission

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	4.0	Unshielded	Unshielded	-
2	FM/AM Cable	1.5	Shielded	Shielded	-
3	USB Cable	2.5	Shielded	Shielded	-
4	Signal Cable	2.5	Unshielded	Unshielded	-
5	Signal Cable	2.5	Unshielded	Unshielded	-
6	Signal Cable	2.5	Unshielded	Unshielded	-
7	SF Antenna Cable	6.0	Shielded	Unshielded	-
8	Signal Cable	1.0	Unshielded	Unshielded	-
9	Signal Cable	2.5	Shielded	Unshielded	-
10	Camera Cable	1.5	Shielded	Shielded	-
11	MIC Cable	2.5	Unshielded	Unshielded	-
12	MIC Cable	2.5	Unshielded	Unshielded	-
13	Speaker Cable	3.0	Unshielded	Unshielded	-
14	Speaker Cable	3.0	Unshielded	Unshielded	-
15	Speaker Cable	3.0	Unshielded	Unshielded	-
16	Speaker Cable	3.0	Unshielded	Unshielded	-

SECTION 5: Radiated Emission

5.1 Operating environment

Date	Test site	Temperature	Humidity	Engineer	Mode
See data	See data	See data	See data	See data	See data

5.2 Test configuration

EUT was placed on the 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 platform.

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.

5.3 Test conditions

Frequency range	:	30 MHz to 200 MHz (Biconical antenna) 200 MHz to 1000 MHz (Logperiodic antenna) 1000 MHz to 40000 MHz (Horn antenna)
Test distance	:	See Figure 2
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, or the Spectrum Analyzer.

The radiated emission measurements were made with the following detector function of the Test Receiver and the Spectrum Analyzer.

The test of Local oscillator spurious has been measured up to appropriate frequency based on the result of the antenna terminal test.

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
Instrument used	Test Receiver	Spectrum Analyzer
IF Bandwidth	QP: BW 120 kHz	PK: RBW: 1 MHz / VBW: 3 MHz AV *1): RBW: 1 MHz / VBW: 10 Hz

*1) When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

Figure 1: Test Setup

Below 1 GHz	
× : Center of turn table	Test Distance: 3 m
1 GHz to 10 GHz	
× : Center of turn table	Test Distance: 3 m
10 GHz to 40 GHz	
× : Center of turn table	Distance Factor: $20 \times \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.5 \text{ dB}$ *Test Distance: 1 m

The test was made on EUT at the normal use position.

5.5 Test result

Summary of the test results: Pass

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

SECTION 6: Antenna Terminal

6.1 Operating environment

Date	Test site	Temperature	Humidity	Engineer	Mode
See data	See data	See data	See data	See data	See data

6.2 Test configuration

EUT was placed on the platform of nominal size, 1.0 m by 0.5 m, raised 0.8 m from the ground. Photographs of the set up are shown in APPENDIX.

6.3 Test conditions

Frequency range : 30 MHz to 1000 MHz / 1000 MHz to 40000 MHz
Test distance : N/A
EUT position : Table top
EUT operation mode : See Clause 4.1

6.4 Test procedure

The Antenna Terminal was measured with a spectrum analyzer connected to the antenna port.

Frequency	Below 1 GHz	Above 1 GHz
Instrument used	Spectrum Analyzer	Spectrum Analyzer *1)
IF Bandwidth	PK: RBW: 100 kHz / VBW: 100 kHz	PK: RBW: 1 MHz / VBW: 3 MHz

*1) The Spectrum Analyzer was used in 3 dB resolution bandwidth.

6.5 Test result

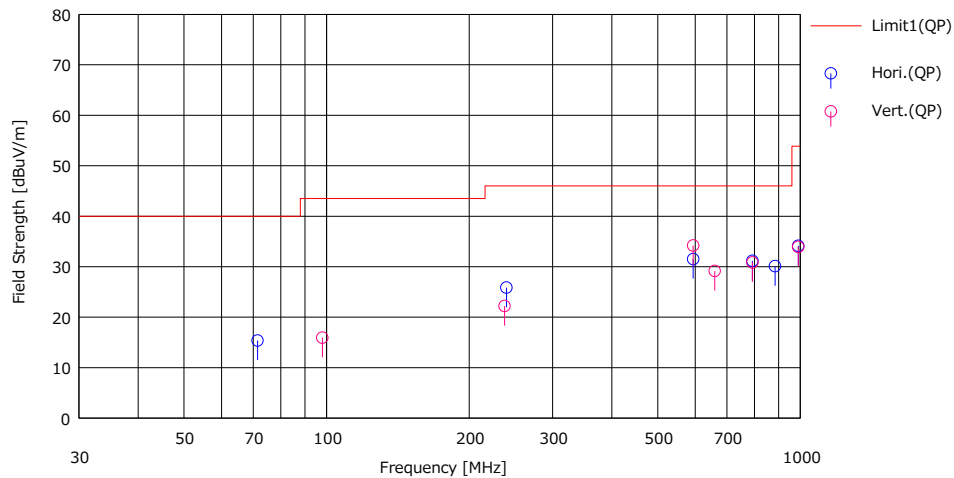
Summary of the test results: Pass

APPENDIX 1: Test data

Radiated Emission

Mode	1				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 1, 2026	SAC4	20 deg. C	50 % RH	Shousei Hamaguchi	Below 1 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B



No.	Freq. [MHz]	Reading (QP)	Ant Fac.	Loss	Gain	Result (QP)	Limit (QP)	Margn	Pola	Height	Angle	Ant. Type	Comment
		[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]		
1	71.503	33.50	6.41	7.56	32.09	15.38	40.00	24.62	Hori.	245	199	BA	
2	239.749	37.30	11.49	9.10	32.03	25.86	46.00	20.14	Hori.	148	280	LA2.3	
3	594.325	33.90	19.00	10.90	32.30	31.50	46.00	14.50	Hori.	100	36	LA2.3	
4	792.431	30.70	20.48	11.76	31.80	31.14	46.00	14.86	Hori.	124	164	LA2.3	
5	884.768	27.50	21.70	12.14	31.24	30.10	46.00	15.90	Hori.	184	180	LA2.3	
6	990.545	30.00	22.10	12.63	30.61	34.12	53.90	19.78	Hori.	107	7	LA2.3	
7	97.972	30.30	9.88	7.83	32.07	15.94	43.50	27.56	Vert.	100	259	BA	
8	237.602	33.70	11.45	9.08	32.03	22.20	46.00	23.80	Vert.	100	176	LA2.3	
9	594.325	36.60	19.00	10.90	32.30	34.20	46.00	11.80	Vert.	109	286	LA2.3	
10	660.000	31.20	19.08	11.20	32.33	29.15	46.00	16.85	Vert.	100	20	LA2.3	
11	792.431	30.40	20.48	11.76	31.80	30.84	46.00	15.16	Vert.	115	72	LA2.3	
12	990.545	29.80	22.10	12.63	30.61	33.92	53.90	19.98	Vert.	100	354	LA2.3	

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.

Radiated Emission

Mode	2 (Local 87.5 MHz), Main port
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 5, 2026	SAC1	20 deg. C	40 % RH	Tetsuro Yoshida	Below 1 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B

<< QP DATA >>

No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]				[dBuV/m]	[dBuV/m]	[dB]					
1	87.942	31.20	8.14	8.24	39.05	8.53	40.00	31.47	Hori.	100	0	BA	
2	175.884	28.60	15.99	9.28	39.10	14.77	43.50	28.73	Hori.	100	0	BA	
3	263.826	34.80	12.45	10.13	38.98	18.40	46.00	27.60	Hori.	100	0	LA	
4	351.768	29.60	15.15	10.83	38.78	16.80	46.00	29.20	Hori.	100	0	LA	
5	439.710	29.90	16.41	11.49	38.64	19.16	46.00	26.84	Hori.	100	0	LA	
6	527.652	28.00	17.73	12.06	38.53	19.26	46.00	26.74	Hori.	100	0	LA	
7	615.594	27.50	19.64	12.61	38.41	21.34	46.00	24.66	Hori.	100	0	LA	
8	703.536	27.40	20.09	13.12	38.42	22.19	46.00	23.81	Hori.	100	0	LA	
9	791.478	27.20	20.64	13.60	38.40	23.04	46.00	22.96	Hori.	100	0	LA	
10	879.420	26.70	22.10	14.07	38.29	24.58	46.00	21.42	Hori.	100	0	LA	
11	967.362	26.60	22.15	14.52	37.94	25.33	53.90	28.57	Hori.	100	0	LA	
12	87.942	31.80	8.14	8.24	39.05	9.13	40.00	30.87	Vert.	100	0	BA	
13	175.884	31.10	15.99	9.28	39.10	17.27	43.50	26.23	Vert.	100	0	BA	
14	263.826	29.30	12.45	10.13	38.98	12.90	46.00	33.10	Vert.	100	0	LA	
15	351.768	29.70	15.15	10.83	38.78	16.90	46.00	29.10	Vert.	100	0	LA	
16	439.710	28.40	16.41	11.49	38.64	17.66	46.00	28.34	Vert.	100	0	LA	
17	527.652	27.80	17.73	12.06	38.53	19.06	46.00	26.94	Vert.	100	0	LA	
18	615.594	28.00	19.64	12.61	38.41	21.84	46.00	24.16	Vert.	100	0	LA	
19	703.536	27.40	20.09	13.12	38.42	22.19	46.00	23.81	Vert.	100	0	LA	
20	791.478	27.20	20.64	13.60	38.40	23.04	46.00	22.96	Vert.	100	0	LA	
21	879.420	26.70	22.10	14.07	38.29	24.58	46.00	21.42	Vert.	100	0	LA	
22	967.362	26.80	22.15	14.52	37.94	25.53	53.90	28.37	Vert.	100	0	LA	

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.

Radiated Emission

Mode	2 (Local 98.1 MHz), Main port
------	-------------------------------

Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 5, 2026	SAC1	20 deg. C	40 % RH	Tetsuro Yoshida	Below 1 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B

<< QP DATA >>

No.	Freq.	Reading (QP)	Ant.Fac	Loss	Gain	Result (QP)	Limit (QP)	Margin (QP)	Pola.	Height	Angle	Ant. Type	Comment
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]		
1	98.547	29.20	9.83	8.39	39.06	8.36	43.50	35.14	Hori.	100	0	BA	
2	197.094	29.10	16.48	9.50	39.09	15.99	43.50	27.51	Hori.	100	0	BA	
3	295.641	36.00	13.49	10.40	38.89	21.00	46.00	25.00	Hori.	100	0	LA	
4	394.188	29.90	15.60	11.15	38.69	17.96	46.00	28.04	Hori.	100	0	LA	
5	492.735	31.10	17.62	11.83	38.58	21.97	46.00	24.03	Hori.	100	0	LA	
6	591.282	27.80	18.86	12.46	38.42	20.70	46.00	25.30	Hori.	100	0	LA	
7	689.829	27.20	19.83	13.04	38.42	21.65	46.00	24.35	Hori.	100	0	LA	
8	788.376	28.20	20.68	13.58	38.40	24.06	46.00	21.94	Hori.	100	0	LA	
9	886.923	26.70	22.09	14.12	38.28	24.63	46.00	21.37	Hori.	100	0	LA	
10	985.470	26.40	22.32	14.61	37.85	25.48	53.90	28.42	Hori.	100	0	LA	
11	98.547	31.20	9.83	8.39	39.06	10.36	43.50	33.14	Vert.	100	0	BA	
12	197.094	31.20	16.48	9.50	39.09	18.09	43.50	25.41	Vert.	100	0	BA	
13	295.641	32.90	13.49	10.40	38.89	17.90	46.00	28.10	Vert.	100	0	LA	
14	394.188	28.30	15.60	11.15	38.69	16.36	46.00	29.64	Vert.	100	0	LA	
15	492.735	28.00	17.62	11.83	38.58	18.87	46.00	27.13	Vert.	100	0	LA	
16	591.282	27.80	18.86	12.46	38.42	20.70	46.00	25.30	Vert.	100	0	LA	
17	689.829	28.60	19.83	13.04	38.42	23.05	46.00	22.95	Vert.	100	0	LA	
18	788.376	27.70	20.68	13.58	38.40	23.56	46.00	22.44	Vert.	100	0	LA	
19	886.923	26.70	22.09	14.12	38.28	24.63	46.00	21.37	Vert.	100	0	LA	
20	985.470	26.50	22.32	14.61	37.85	25.58	53.90	28.32	Vert.	100	0	LA	

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.

Radiated Emission

Mode	2 (Local 108.0 MHz), Main port
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 5, 2026	SAC1	20 deg. C	40 % RH	Tetsuro Yoshida	Below 1 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B

<< QP DATA >>

No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]				[dBuV/m]	[dBuV/m]	[dB]					
1	108.396	29.70	11.32	8.51	39.07	10.46	43.50	33.04	Hori.	100	0	BA	
2	216.792	32.10	11.11	9.70	39.07	13.84	46.00	32.16	Hori.	100	0	LA	
3	325.188	35.20	14.49	10.63	38.83	21.49	46.00	24.51	Hori.	100	0	LA	
4	433.584	30.50	16.26	11.44	38.64	19.56	46.00	26.44	Hori.	100	0	LA	
5	541.980	27.90	17.57	12.15	38.50	19.12	46.00	26.88	Hori.	100	0	LA	
6	650.376	27.30	19.49	12.81	38.42	21.18	46.00	24.82	Hori.	100	0	LA	
7	758.772	27.70	20.23	13.42	38.41	22.94	46.00	23.06	Hori.	100	0	LA	
8	867.168	26.60	22.06	14.01	38.31	24.36	46.00	21.64	Hori.	100	0	LA	
9	975.564	26.60	22.25	14.56	37.90	25.51	53.90	28.39	Hori.	100	0	LA	
10	108.396	30.30	11.32	8.51	39.07	11.06	43.50	32.44	Vert.	100	0	BA	
11	216.792	34.50	11.11	9.70	39.07	16.24	46.00	29.76	Vert.	100	0	LA	
12	325.188	29.40	14.49	10.63	38.83	15.69	46.00	30.31	Vert.	100	0	LA	
13	433.584	28.30	16.26	11.44	38.64	17.36	46.00	28.64	Vert.	100	0	LA	
14	541.980	27.90	17.57	12.15	38.50	19.12	46.00	26.88	Vert.	100	0	LA	
15	650.376	28.00	19.49	12.81	38.42	21.88	46.00	24.12	Vert.	100	0	LA	
16	758.772	27.50	20.23	13.42	38.41	22.74	46.00	23.26	Vert.	100	0	LA	
17	867.168	26.60	22.06	14.01	38.31	24.36	46.00	21.64	Vert.	100	0	LA	
18	975.564	26.80	22.25	14.56	37.90	25.71	53.90	28.19	Vert.	100	0	LA	

CHART: WITH FACTOR

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

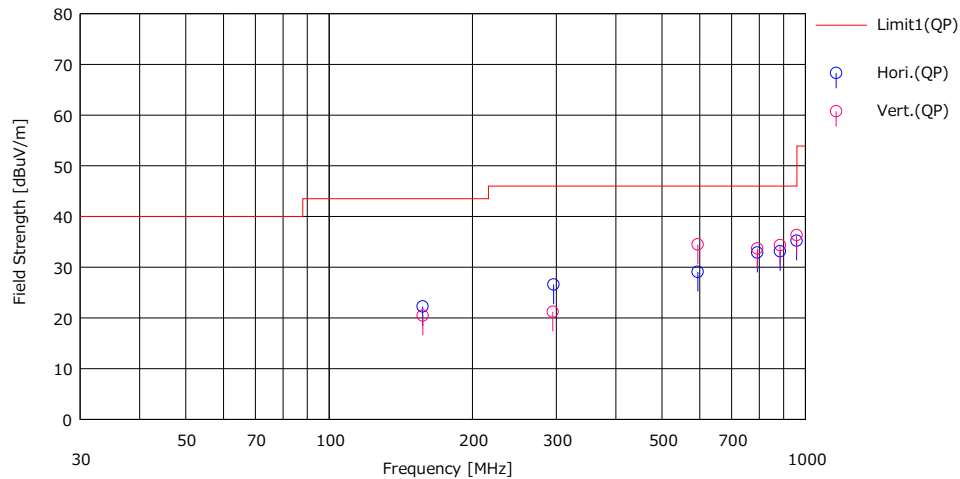
CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE + ATT) - GAIN(AMP)

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

Radiated Emission

Mode	2 (Other), Main port				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 5, 2026	SAC1	20 deg. C	40 % RH	Tetsuro Yoshida	Below 1 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B



No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola.	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]				[dBuV/m]	[dBuV/m]	[dB]					
1	157.227	37.00	15.29	9.09	39.12	22.26	43.50	21.24	Hori.	197	280	BA	
2	296.070	41.60	13.48	10.41	38.89	26.60	46.00	19.40	Hori.	100	253	LA	
3	594.327	36.20	18.83	12.47	38.42	29.08	46.00	16.92	Hori.	124	300	LA	
4	792.436	37.00	20.67	13.61	38.40	32.88	46.00	13.12	Hori.	107	151	LA	
5	884.766	35.20	22.13	14.10	38.28	33.15	46.00	12.85	Hori.	105	166	LA	
6	958.496	36.60	22.14	14.47	37.98	35.23	46.00	10.77	Hori.	100	175	LA	
7	157.282	35.20	15.29	9.09	39.12	20.46	43.50	23.04	Vert.	100	155	BA	
8	294.891	36.20	13.51	10.40	38.89	21.22	46.00	24.78	Vert.	100	327	LA	
9	594.327	41.60	18.83	12.47	38.42	34.48	46.00	11.52	Vert.	100	296	LA	
10	792.436	37.80	20.67	13.61	38.40	33.68	46.00	12.32	Vert.	100	60	LA	
11	884.766	36.40	22.13	14.10	38.28	34.35	46.00	11.65	Vert.	100	183	LA	
12	958.496	37.70	22.14	14.47	37.98	36.33	46.00	9.67	Vert.	100	230	LA	

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.

Radiated Emission

Mode	2 (Local 87.5 MHz), Sub port
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 5, 2026	SAC1	20 deg. C	40 % RH	Tetsuro Yoshida	Below 1 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B

<< QP DATA >>

No.	Freq.	Reading (QP)	Ant.Fac	Loss	Gain	Result (QP)	Limit (QP)	Margin (QP)	Pola.	Height	Angle	Ant. Type	Comment
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]		
1	87.942	35.80	8.14	8.24	39.05	13.13	40.00	26.87	Hori.	100	0	BA	
2	175.884	29.00	15.99	9.28	39.10	15.17	43.50	28.33	Hori.	100	0	BA	
3	263.826	34.10	12.45	10.13	38.98	17.70	46.00	28.30	Hori.	100	0	LA	
4	351.768	29.20	15.15	10.83	38.78	16.40	46.00	29.60	Hori.	100	0	LA	
5	439.710	29.20	16.41	11.49	38.64	18.46	46.00	27.54	Hori.	100	0	LA	
6	527.652	27.90	17.73	12.06	38.53	19.16	46.00	26.84	Hori.	100	0	LA	
7	615.594	27.60	19.64	12.61	38.41	21.44	46.00	24.56	Hori.	100	0	LA	
8	703.536	27.40	20.09	13.12	38.42	22.19	46.00	23.81	Hori.	100	0	LA	
9	791.478	27.10	20.64	13.60	38.40	22.94	46.00	23.06	Hori.	100	0	LA	
10	879.420	26.70	22.10	14.07	38.29	24.58	46.00	21.42	Hori.	100	0	LA	
11	967.362	26.60	22.15	14.52	37.94	25.33	53.90	28.57	Hori.	100	0	LA	
12	87.942	36.40	8.14	8.24	39.05	13.73	40.00	26.27	Vert.	100	0	BA	
13	175.884	32.40	15.99	9.28	39.10	18.57	43.50	24.93	Vert.	100	0	BA	
14	263.826	29.40	12.45	10.13	38.98	13.00	46.00	33.00	Vert.	100	0	LA	
15	351.768	30.00	15.15	10.83	38.78	17.20	46.00	28.80	Vert.	100	0	LA	
16	439.710	29.00	16.41	11.49	38.64	18.26	46.00	27.74	Vert.	100	0	LA	
17	527.652	27.80	17.73	12.06	38.53	19.06	46.00	26.94	Vert.	100	0	LA	
18	615.594	28.00	19.64	12.61	38.41	21.84	46.00	24.16	Vert.	100	0	LA	
19	703.536	29.50	20.09	13.12	38.42	24.29	46.00	21.71	Vert.	100	0	LA	
20	791.478	27.20	20.64	13.60	38.40	23.04	46.00	22.96	Vert.	100	0	LA	
21	879.420	26.70	22.10	14.07	38.29	24.58	46.00	21.42	Vert.	100	0	LA	
22	967.362	26.70	22.15	14.52	37.94	25.43	53.90	28.47	Vert.	100	0	LA	

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.

Radiated Emission

Mode	2 (Local 98.1 MHz), Sub port				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 5, 2026	SAC1	20 deg. C	40 % RH	Tetsuro Yoshida	Below 1 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B

<< QP DATA >>

No.	Freq.	Reading <QP>	Ant.Fac	Loss	Gain	Result <QP>	Limit <QP>	Margin <QP>	Pola.	Height	Angle	Ant. Type	Comment
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]		
1	98.547	29.00	9.83	8.39	39.06	8.16	43.50	35.34	Hori.	100	0	BA	
2	197.094	29.00	16.48	9.50	39.09	15.89	43.50	27.61	Hori.	100	0	BA	
3	295.641	33.50	13.49	10.40	38.89	18.50	46.00	27.50	Hori.	100	0	LA	
4	394.188	29.90	15.60	11.15	38.69	17.96	46.00	28.04	Hori.	100	0	LA	
5	492.735	30.30	17.62	11.83	38.58	21.17	46.00	24.83	Hori.	100	0	LA	
6	591.282	27.60	18.86	12.46	38.42	20.50	46.00	25.50	Hori.	100	0	LA	
7	689.829	27.30	19.83	13.04	38.42	21.75	46.00	24.25	Hori.	100	0	LA	
8	788.376	28.20	20.68	13.58	38.40	24.06	46.00	21.94	Hori.	100	0	LA	
9	886.923	26.70	22.09	14.12	38.28	24.63	46.00	21.37	Hori.	100	0	LA	
10	985.470	26.50	22.32	14.61	37.85	25.58	53.90	28.32	Hori.	100	0	LA	
11	98.547	32.70	9.83	8.39	39.06	11.86	43.50	31.64	Vert.	100	0	BA	
12	197.094	31.00	16.48	9.50	39.09	17.89	43.50	25.61	Vert.	100	0	BA	
13	295.641	33.20	13.49	10.40	38.89	18.20	46.00	27.80	Vert.	100	0	LA	
14	394.188	28.40	15.60	11.15	38.69	16.46	46.00	29.54	Vert.	100	0	LA	
15	492.735	28.20	17.62	11.83	38.58	19.07	46.00	26.93	Vert.	100	0	LA	
16	591.282	28.10	18.86	12.46	38.42	21.00	46.00	25.00	Vert.	100	0	LA	
17	689.829	28.50	19.83	13.04	38.42	22.95	46.00	23.05	Vert.	100	0	LA	
18	788.376	27.70	20.68	13.58	38.40	23.56	46.00	22.44	Vert.	100	0	LA	
19	886.923	26.70	22.09	14.12	38.28	24.63	46.00	21.37	Vert.	100	0	LA	
20	985.470	26.50	22.32	14.61	37.85	25.58	53.90	28.32	Vert.	100	0	LA	

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.

Radiated Emission

Mode	2 (Local 108.0 MHz), Sub port
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 5, 2026	SAC1	20 deg. C	40 % RH	Tetsuro Yoshida	Below 1 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B

<< QP DATA >>

No.	Freq. [MHz]	Reading <QP> [dBuV]	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result <QP> [dBuV/m]	Limit <QP> [dBuV/m]	Margin <QP> [dB]	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
1	108.396	29.50	11.32	8.51	39.07	10.26	43.50	33.24	Hori.	100	0	BA	
2	216.792	30.40	11.11	9.70	39.07	12.14	46.00	33.86	Hori.	100	0	LA	
3	325.188	33.90	14.49	10.63	38.83	20.19	46.00	25.81	Hori.	100	0	LA	
4	433.584	29.40	16.26	11.44	38.64	18.46	46.00	27.54	Hori.	100	0	LA	
5	541.980	27.90	17.57	12.15	38.50	19.12	46.00	26.88	Hori.	100	0	LA	
6	650.376	27.40	19.49	12.81	38.42	21.28	46.00	24.72	Hori.	100	0	LA	
7	758.772	27.90	20.23	13.42	38.41	23.14	46.00	22.86	Hori.	100	0	LA	
8	867.168	26.60	22.06	14.01	38.31	24.36	46.00	21.64	Hori.	100	0	LA	
9	975.564	26.60	22.25	14.56	37.90	25.51	53.90	28.39	Hori.	100	0	LA	
10	108.396	30.20	11.32	8.51	39.07	10.96	43.50	32.54	Vert.	100	0	BA	
11	216.792	33.50	11.11	9.70	39.07	15.24	46.00	30.76	Vert.	100	0	LA	
12	325.188	28.90	14.49	10.63	38.83	15.19	46.00	30.81	Vert.	100	0	LA	
13	433.584	28.70	16.26	11.44	38.64	17.76	46.00	28.24	Vert.	100	0	LA	
14	541.980	27.80	17.57	12.15	38.50	19.02	46.00	26.98	Vert.	100	0	LA	
15	650.376	27.80	19.49	12.81	38.42	21.68	46.00	24.32	Vert.	100	0	LA	
16	758.772	27.50	20.23	13.42	38.41	22.74	46.00	23.26	Vert.	100	0	LA	
17	867.168	26.60	22.06	14.01	38.31	24.36	46.00	21.64	Vert.	100	0	LA	
18	975.564	26.80	22.25	14.56	37.90	25.71	53.90	28.19	Vert.	100	0	LA	

CHART: WITH FACTOR

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

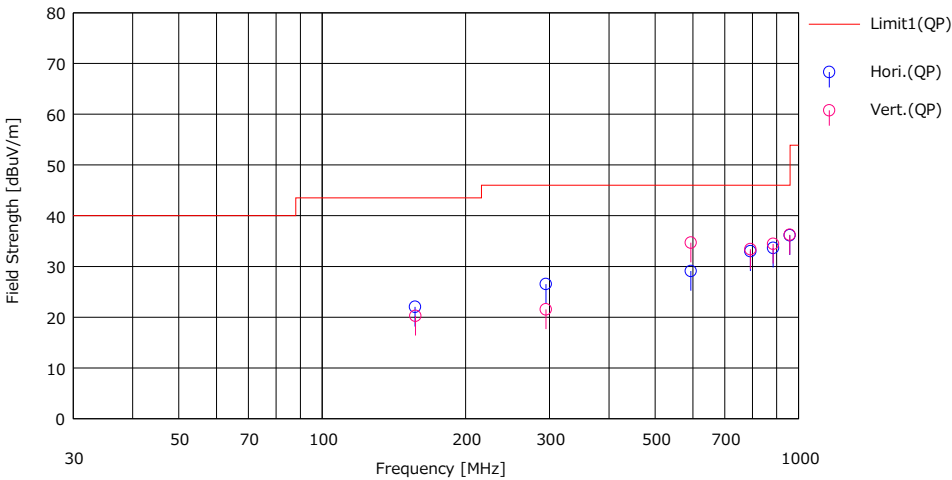
CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE + ATT) - GAIN(AMP)

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

Radiated Emission

Mode	2 (Other), Sub port				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 5, 2026	SAC1	20 deg. C	40 % RH	Tetsuro Yoshida	Below 1 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B



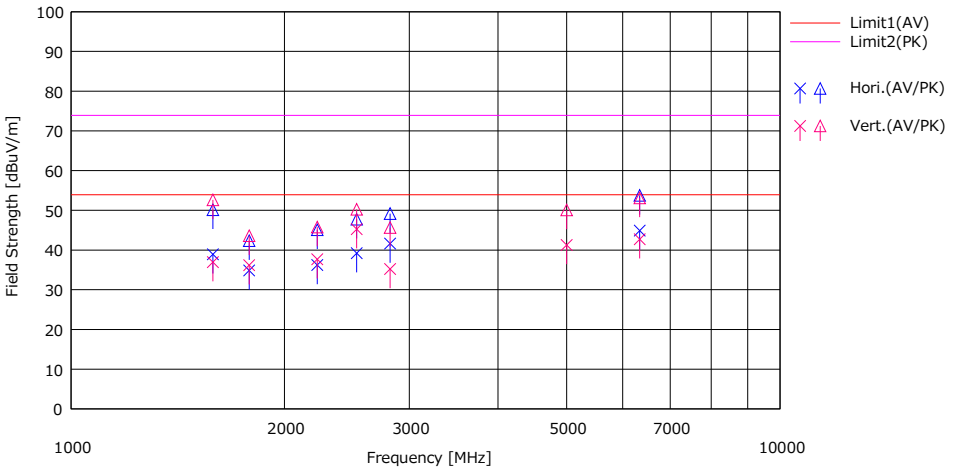
No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]				[dBuV/m]	[dBuV/m]	[dB]					
1	156.712	36.80	15.26	9.09	39.12	22.03	43.50	21.47	Hori.	198	283	BA	
2	294.922	41.50	13.51	10.40	38.89	26.52	46.00	19.48	Hori.	100	352	LA	
3	594.345	36.20	18.83	12.47	38.42	29.08	46.00	16.92	Hori.	125	302	LA	
4	792.436	37.10	20.67	13.61	38.40	32.98	46.00	13.02	Hori.	106	150	LA	
5	884.766	35.70	22.13	14.10	38.28	33.65	46.00	12.35	Hori.	106	165	LA	
6	958.496	37.50	22.14	14.47	37.98	36.13	46.00	9.87	Hori.	100	177	LA	
7	157.008	35.00	15.28	9.09	39.12	20.25	43.50	23.25	Vert.	100	150	BA	
8	294.922	36.50	13.51	10.40	38.89	21.52	46.00	24.48	Vert.	100	328	LA	
9	594.345	41.80	18.83	12.47	38.42	34.68	46.00	11.32	Vert.	100	295	LA	
10	792.436	37.50	20.67	13.61	38.40	33.38	46.00	12.62	Vert.	100	60	LA	
11	884.766	36.50	22.13	14.10	38.28	34.45	46.00	11.55	Vert.	100	182	LA	
12	958.496	37.60	22.14	14.47	37.98	36.23	46.00	9.77	Vert.	100	238	LA	

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.

Radiated Emission

Mode	1				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 10, 2026	SAC2	21 deg. C	43 % RH	Junya Okuno	1 GHz to 40 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B



No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result		Limit		Margin		Pols. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		(AV) [dBuV]	(PK) [dBuV]				(AV) [dBuV/m]	(PK) [dBuV/m]	(AV) [dBuV/m]	(PK) [dBuV/m]	(AV) [dB]	(PK) [dB]					
1	1584.922	45.46	56.64	25.14	1.91	33.58	38.93	50.11	53.90	73.90	14.97	23.79	Hori.	361	50	HA6	
2	1783.033	41.00	48.47	25.14	2.04	33.32	34.86	42.33	53.90	73.90	19.04	31.57	Hori.	361	29	HA6	
3	2225.200	38.72	47.61	28.20	2.30	33.01	36.21	45.10	53.90	73.90	17.69	28.80	Hori.	207	209	HA6	
4	2528.700	42.24	50.79	27.48	2.46	32.99	39.19	47.74	53.90	73.90	14.71	26.16	Hori.	116	209	HA6	
5	2818.675	43.68	51.21	28.42	2.60	33.06	41.64	49.17	53.90	73.90	12.26	24.73	Hori.	256	342	HA6	
6	6339.532	39.87	48.74	33.32	4.02	32.34	44.87	53.74	53.90	73.90	9.03	20.16	Hori.	362	150	HA6	
7	1584.922	43.50	59.13	25.14	1.91	33.58	36.97	52.60	53.90	73.90	16.93	21.30	Vert.	100	271	HA6	
8	1783.033	42.34	49.73	25.14	2.04	33.32	36.20	43.59	53.90	73.90	17.70	30.31	Vert.	100	331	HA6	
9	2225.200	40.20	48.31	28.20	2.30	33.01	37.69	45.80	53.90	73.90	16.21	28.10	Vert.	102	101	HA6	
10	2528.700	48.30	53.30	27.48	2.46	32.99	45.25	50.25	53.90	73.90	8.65	23.65	Vert.	116	334	HA6	
11	2818.675	37.25	47.70	28.42	2.60	33.06	35.21	45.66	53.90	73.90	18.69	28.24	Vert.	100	180	HA6	
12	4999.963	38.35	47.16	31.87	3.54	32.49	41.27	50.08	53.90	73.90	12.63	23.82	Vert.	100	180	HA6	
13	6339.532	37.73	48.11	33.32	4.02	32.34	42.73	53.11	53.90	73.90	11.17	20.79	Vert.	150	5	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) - GAIN(AMP)
Except for the above table: adequate margin data below the limits.
* No signal was detected above 10 GHz.

Radiated Emission

Mode	2 (Local 108.0 MHz), Main port				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 10, 2026	SAC2	21 deg. C	43 % RH	Junya Okuno	1 GHz to 2 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B

<< AV/PK DATA >>

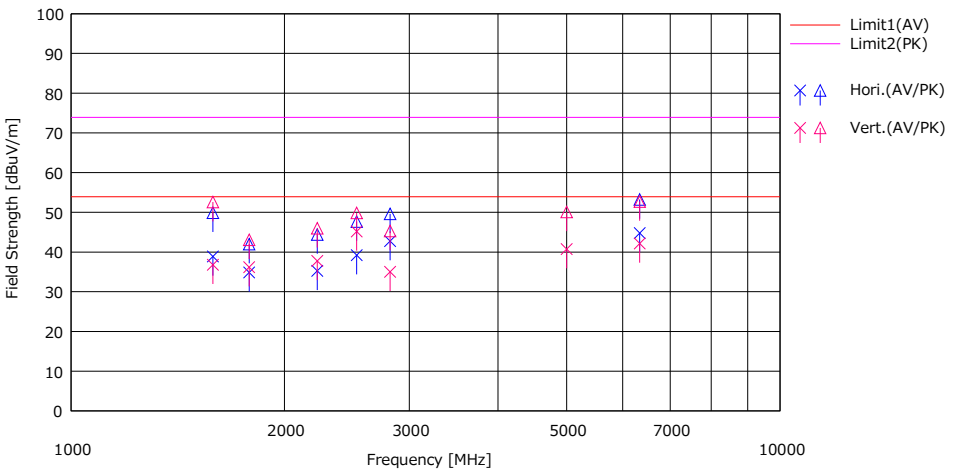
No.	Freq. [MHz]	Reading		Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		(AV) [dBuV]	(PK) [dBuV]				(AV) [dBuV/m]	(PK) [dBuV/m]	(AV) [dBuV/m]	(PK) [dBuV/m]	(AV) [dB]	(PK) [dB]					
1	1083.960	33.91	47.12	25.00	1.58	34.25	26.24	39.45	53.90	73.90	27.66	34.45	Hori.	100	0	HA6	
2	1083.960	33.89	47.10	25.00	1.58	34.25	26.22	39.43	53.90	73.90	27.68	34.47	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) - GAIN(AMP)
Except for the above table: adequate margin data below the limits.

Radiated Emission

Mode	2 (Other), Main port				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 10, 2026	SAC2	21 deg. C	43 % RH	Junya Okuno	1 GHz to 40 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B



No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result		Limit		Margin		Pols. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		(AV) [dBuV]	(PK) [dBuV]				(AV) [dBuV/m]	(PK) [dBuV/m]	(AV) [dBuV/m]	(PK) [dBuV/m]	(AV) [dB]	(PK) [dB]					
1	1584.922	45.42	56.40	25.14	1.91	33.58	38.89	49.87	53.90	73.90	15.01	24.03	Hori.	360	48	HA6	
2	1783.033	40.98	48.13	25.14	2.04	33.32	34.84	41.99	53.90	73.90	19.06	31.91	Hori.	358	11	HA6	
3	2225.200	37.76	46.93	28.20	2.30	33.01	35.25	44.42	53.90	73.90	18.65	29.48	Hori.	143	197	HA6	
4	2528.700	42.23	50.72	27.48	2.46	32.99	39.18	47.67	53.90	73.90	14.72	26.23	Hori.	146	181	HA6	
5	2818.675	44.78	51.63	28.42	2.60	33.06	42.74	49.59	53.90	73.90	11.16	24.31	Hori.	363	312	HA6	
6	6339.532	39.76	48.22	33.32	4.02	32.34	44.76	53.22	53.90	73.90	9.14	20.68	Hori.	361	144	HA6	
7	1584.922	43.32	59.10	25.14	1.91	33.58	36.79	52.57	53.90	73.90	17.11	21.33	Vert.	100	269	HA6	
8	1783.033	42.31	49.22	25.14	2.04	33.32	36.17	43.08	53.90	73.90	17.73	30.82	Vert.	100	334	HA6	
9	2225.200	40.27	48.48	28.20	2.30	33.01	37.76	45.97	53.90	73.90	16.14	27.93	Vert.	103	103	HA6	
10	2528.700	48.21	52.91	27.48	2.46	32.99	45.16	49.86	53.90	73.90	8.74	24.04	Vert.	118	332	HA6	
11	2818.675	37.07	47.35	28.42	2.60	33.06	35.03	45.31	53.90	73.90	18.87	28.59	Vert.	100	182	HA6	
12	4999.963	37.82	47.16	31.87	3.54	32.49	40.74	50.08	53.90	73.90	13.16	23.82	Vert.	100	181	HA6	
13	6339.532	37.14	47.70	33.32	4.02	32.34	42.14	52.70	53.90	73.90	11.76	21.20	Vert.	151	4	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) - GAIN(AMP)
Except for the above table: adequate margin data below the limits.
* No signal was detected above 10 GHz.

Radiated Emission

Mode	2 (Local 108.0 MHz), Sub port				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 10, 2026	SAC2	21 deg. C	43 % RH	Junya Okuno	1 GHz to 2 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B

<< AV/PK DATA >>

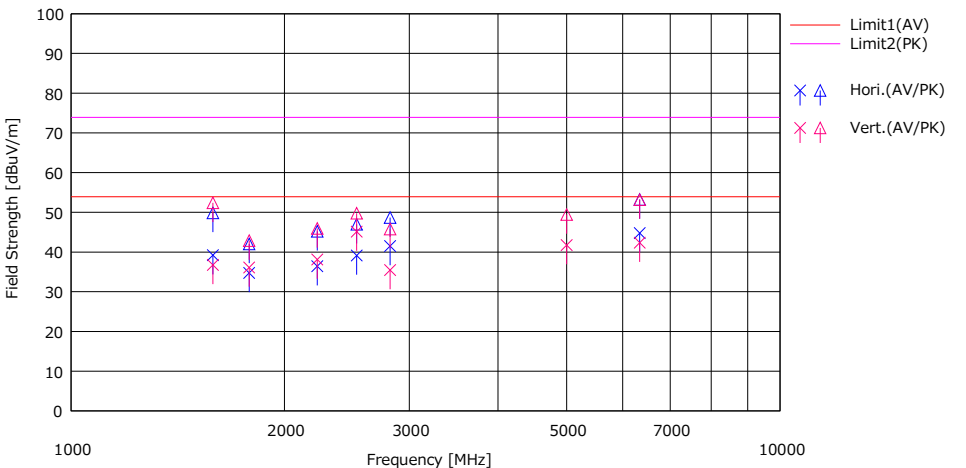
No.	Freq. [MHz]	Reading		Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		(AV) [dBuV]	(PK) [dBuV]				(AV) [dBuV/m]	(PK) [dBuV/m]	(AV) [dBuV/m]	(PK) [dBuV/m]	(AV) [dB]	(PK) [dB]					
1	1083.960	33.90	47.14	25.00	1.58	34.25	26.23	39.47	53.90	73.90	27.67	34.43	Hori.	100	0	HA6	
2	1083.960	33.88	47.08	25.00	1.58	34.25	26.21	39.41	53.90	73.90	27.69	34.49	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) - GAIN(AMP)
Except for the above table: adequate margin data below the limits.

Radiated Emission

Mode	2 (Other), Sub port				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 10, 2026	SAC2	21 deg. C	43 % RH	Junya Okuno	1 GHz to 40 GHz

Limit : FCC_Part 15 Subpart B(15.109)_Class B

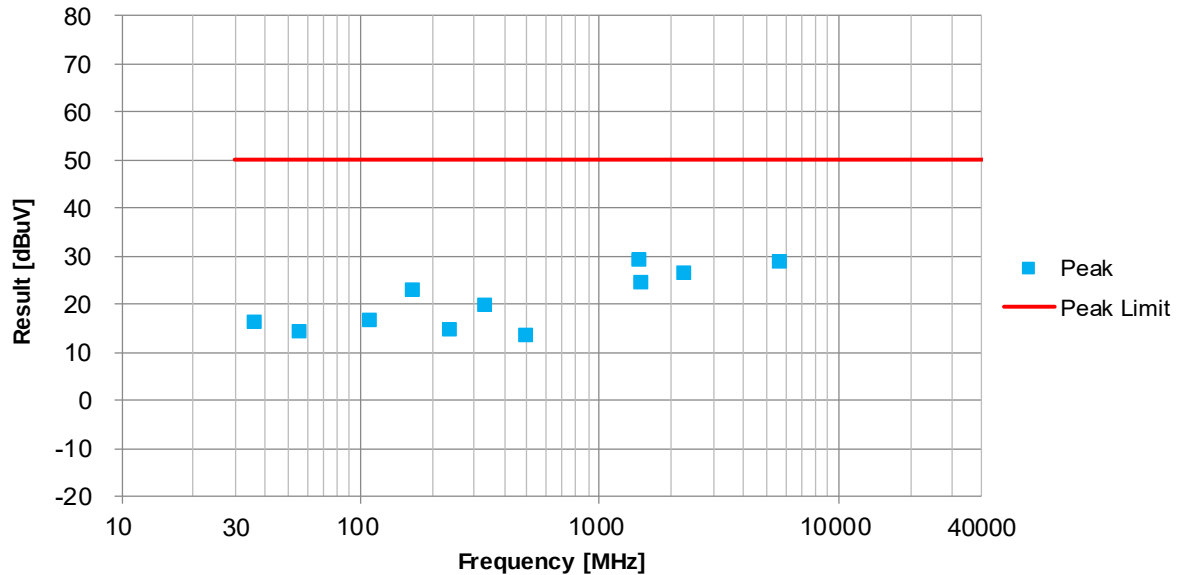


No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result		Limit		Margin		Pols. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		(AV) [dBuV]	(PK) [dBuV]				(AV) [dBuV/m]	(PK) [dBuV/m]	(AV) [dBuV/m]	(PK) [dBuV/m]	(AV) [dB]	(PK) [dB]					
1	1584.922	45.72	56.35	25.14	1.91	33.58	39.19	49.82	53.90	73.90	14.71	24.08	Hori.	363	46	HA6	
2	1783.033	40.88	48.18	25.14	2.04	33.32	34.74	42.04	53.90	73.90	19.16	31.86	Hori.	351	13	HA6	
3	2225.200	38.93	47.72	28.20	2.30	33.01	36.42	45.21	53.90	73.90	17.48	28.69	Hori.	145	193	HA6	
4	2528.700	42.18	50.06	27.48	2.46	32.99	39.13	47.01	53.90	73.90	14.77	26.89	Hori.	145	177	HA6	
5	2818.675	43.54	50.71	28.42	2.60	33.06	41.50	48.67	53.90	73.90	12.40	25.23	Hori.	365	310	HA6	
6	6339.532	39.77	48.21	33.32	4.02	32.34	44.77	53.21	53.90	73.90	9.13	20.69	Hori.	359	142	HA6	
7	1584.922	43.28	58.92	25.14	1.91	33.58	36.75	52.39	53.90	73.90	17.15	21.51	Vert.	100	266	HA6	
8	1783.033	42.27	49.01	25.14	2.04	33.32	36.13	42.87	53.90	73.90	17.77	31.03	Vert.	100	339	HA6	
9	2225.200	40.60	48.45	28.20	2.30	33.01	38.09	45.94	53.90	73.90	15.81	27.96	Vert.	103	102	HA6	
10	2528.700	48.17	52.82	27.48	2.46	32.99	45.12	49.77	53.90	73.90	8.78	24.13	Vert.	118	333	HA6	
11	2818.675	37.47	47.81	28.42	2.60	33.06	35.43	45.77	53.90	73.90	18.47	28.13	Vert.	100	183	HA6	
12	4999.963	38.82	46.53	31.87	3.54	32.49	41.74	49.45	53.90	73.90	12.16	24.45	Vert.	100	180	HA6	
13	6339.532	37.33	48.20	33.32	4.02	32.34	42.33	53.20	53.90	73.90	11.57	20.70	Vert.	154	7	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) - GAIN(AMP)
Except for the above table: adequate margin data below the limits.
* No signal was detected above 10 GHz.

Antenna Terminal Conducted Emission

Mode	2, Main port			
Date	Test site	Temperature	Humidity	Engineer
March 4, 2026	SR7	20 deg. C	40 % RH	Tetsuro Yoshida



Frequency [MHz]	Reading (PK) [dBuV]	Loss [dB]	Gain [dB]	Result (PK) [dBuV]	Limit *1) (PK) [dBuV]	Margin (PK) [dB]	Remarks
36.033	42.2	6.1	32.2	16.1	50.0	33.9	
55.470	40.2	6.1	32.1	14.2	50.0	35.8	
110.932	42.7	6.1	32.1	16.7	50.0	33.3	
166.399	48.8	6.2	32.0	23.0	50.0	27.0	
240.080	40.5	6.2	32.0	14.7	50.0	35.3	
332.796	45.6	6.2	32.0	19.8	50.0	30.2	
499.195	39.2	6.3	32.0	13.5	50.0	36.5	
1462.477	56.2	6.6	33.5	29.3	50.0	20.7	Local 91.8MHz
1497.577	51.2	6.6	33.4	24.4	50.0	25.6	
2257.410	51.7	6.7	32.1	26.3	50.0	23.7	Local 94.5MHz
5711.941	52.7	7.2	31.0	28.9	50.0	21.1	Local 102.4MHz

*1) 2 nW = -57 dBm = 50 dBuV

CHART: WITH FACTOR

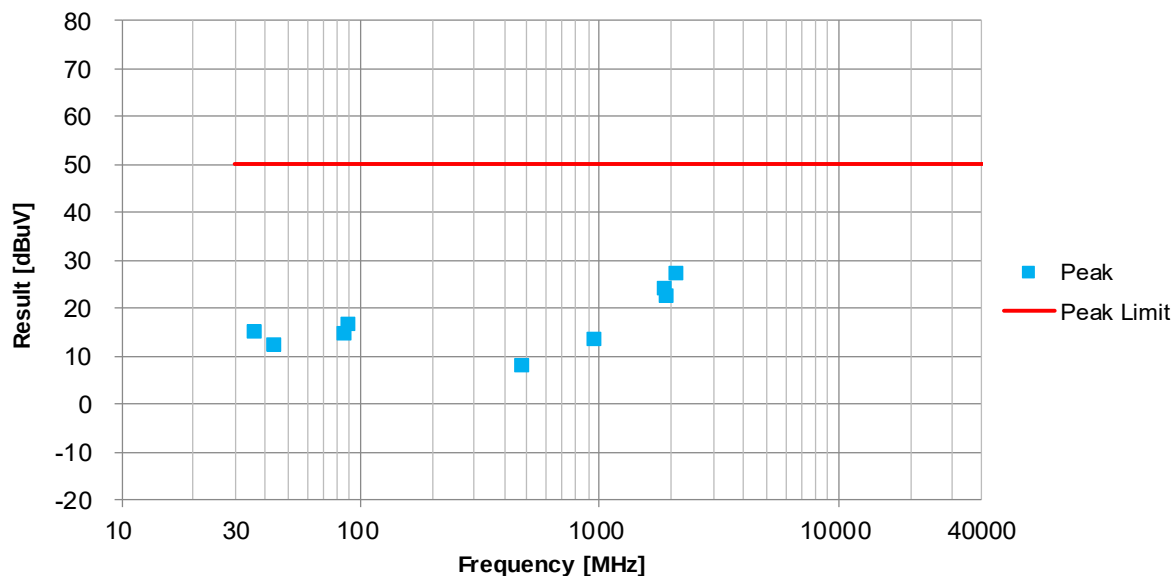
CALCULATION: RESULT = READING + LOSS (CABLE + Matching Pad) – GAIN (AMP)

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

Antenna Terminal Conducted Emission

Mode	2, Sub port			
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Date	Test site	Temperature	Humidity	Engineer
March 4, 2026	SR7	20 deg. C	40 % RH	Tetsuro Yoshida



Frequency [MHz]	Reading (PK) [dBuV]	Loss [dB]	Gain [dB]	Result (PK) [dBuV]	Limit *1) (PK) [dBuV]	Margin (PK) [dB]	Remarks
36.100	41.2	6.1	32.2	15.1	50.0	34.9	
43.340	38.2	6.1	32.2	12.1	50.0	37.9	
85.306	40.5	6.1	32.1	14.5	50.0	35.5	
89.862	42.7	6.1	32.1	16.7	50.0	33.3	
479.141	33.8	6.3	32.0	8.1	50.0	41.9	
954.027	37.6	6.5	30.5	13.6	50.0	36.4	
1874.975	49.8	6.6	32.5	23.9	50.0	26.1	
1902.580	48.1	6.6	32.4	22.3	50.0	27.7	
2092.332	52.8	6.7	32.2	27.3	50.0	22.7	

*1) 2 nW = -57 dBm = 50 dBuV

CHART: WITH FACTOR

CALCULATION: RESULT = READING + LOSS (CABLE + Matching Pad) – GAIN (AMP)

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

APPENDIX 2: Test instruments

Test equipment (1/2)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	141198	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103+BBA9106	2513	07/22/2025	12
RE	141213	Attenuator(6dB)	Weinschel Corp	2	BK7971	11/11/2025	12
RE	141267	Logperiodic Antenna (200-1000MHz)	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	9111B-192	09/12/2025	12
RE	141350	Coaxial Cable	Suhner/storm/Agilent/TSJ	-	-	03/14/2025	12
RE	141397	Coaxial Cable	UL-ISE EMC	-	-	11/12/2025	12
RE	141425	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103+BBA9106	VHA 91031302	08/14/2025	12
RE	141485	DC Block Filter	Keysight Technologies Inc	N9398C	51053	10/20/2025	12
RE	141503	Horn Antenna 18-26.5GHz	EMCO	3160-09	1265	06/18/2025	12
RE	141512	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	254	10/20/2025	12
RE	141517	Horn Antenna 26.5-40GHz	ETS-Lindgren	3160-10	152399	11/14/2025	12
RE	141530	Digital Tester	Fluke Corporation	FLUKE 26-3	78030621	02/05/2026	12
RE	141542	Digital Tester	Fluke Corporation	FLUKE 26-3	78030611	08/01/2025	12
RE	141568	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	2901	01/14/2026	12
RE	141583	Pre Amplifier	SONOMA INSTRUMENT	310	260833	04/02/2025	12
RE	141585	Pre Amplifier	L3 Narda-MITEQ	MLA-10K01-B01-35	1237616	02/09/2026	12
RE	141588	Pre Amplifier	L3 Narda-MITEQ	AMF-6F-2600400-33-8P / AMF-4F-2600400-33-8P	1871355 /1871328	01/06/2026	12
RE	141894	Signal Generator	Rohde & Schwarz	SMC100A	103408	10/22/2025	12
RE	141933	Terminator	TME	CT-01BP	-	12/01/2025	12
RE	141951	EMI Test Receiver	Rohde & Schwarz	ESR26	101408	05/07/2025	12
RE	141978	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY46180899	05/14/2025	12
RE	141998	AC1_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 10m	DA-06881	07/07/2025	24
RE	142004	AC2_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	07/08/2025	24
RE	142006	AC2_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-06902	04/21/2025	24
RE	142011	AC4_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	07/10/2025	24
RE	142226	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	142228	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	142230	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	160324	Coaxial Cable	Huber+Suhner	SUCOFLEX 102A	MY009/2A	10/21/2025	12
RE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	220646	Attenuator	Huber+Suhner	6806 N-50-1	-	03/06/2026	12
RE	238713	Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	688	09/17/2025	12
RE	242170	Logperiodic Antenna	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	00728	01/15/2026	12
RE	244707	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202102	01/13/2026	12
RE	244710	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202104	01/14/2026	12
RE	252663	Microwave Cable	Huber+Suhner	SF126E/11PC35/11PC35/1000MM, 5000MM	616276/126E / 616275/126E	09/03/2025	12
RE	253739	Pre Amplifier	Keysight Technologies Inc	8449B	3008A01919	10/17/2025	12
RE	272098	DIGITAL MULTIMETER	HIOKI E. E. CORPORATION	DT4255	250902199	11/27/2025	12

Test equipment (2/2)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	141172	Attenuator(6dB) (above1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-106	-	12/02/2025	12
AT	141210	Attenuator(20dB) (above1GHz)	Keysight Technologies Inc	8490D,020	3249	12/02/2025	12
AT	141360	DIGITAL HiTESTER	HIOKI E. E. CORPORATION	3805	070900532	01/05/2026	12
AT	141485	DC Block Filter	Keysight Technologies Inc	N9398C	51053	10/20/2025	12
AT	141550	Matching Pad Anritsu	Anritsu Corporation	MB-009	40063	07/03/2025	12
AT	141572	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	3401	01/14/2026	12
AT	141580	MicroWave System Amplifier	Keysight Technologies Inc	83017A	MY39500779	03/24/2025	12
AT	141582	Pre Amplifier	SONOMA INSTRUMENT	310	260834	02/06/2026	12
AT	141904	Spectrum Analyzer	Keysight Technologies Inc	N9030A	US51350215	11/19/2025	12
AT	154634	Terminator	Pasternack Enterprises	PE6165	10	-	-
AT	237927	Broadband Amplifier	ERAVANT	SBB-0115033218-2F2F-E3	27554-01	07/02/2025	12
AT	262629	Microwave Cable	Huber+Suhner	SF103/11PC3.5/11PC3.5/1000mm	800673	04/24/2025	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

AT: Antenna Terminal Conducted