

RADIO TEST REPORT

Test Report No. 16219264H-A

Customer	DENSO TEN Limited
Description of EUT	Car Navigation
Model Number of EUT	TN0051A
FCC ID	BABTN0051A
Test Regulation	FCC Part 15 Subpart C
Test Result	Complied
Issue Date	June 4, 2026
Remarks	Bluetooth Low Energy part(s) Radiated Spurious Emission only For permissive change

Representative Test EngineerWataru Toriyama
Engineer**Approved By**Ryota Yamanaka
Engineer

CERTIFICATE 5107.02

- ☐ The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc.
- ☒ There is no testing item of "Non-accreditation".

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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)	16219264H-A	June 4, 2026	-

Reference: Abbreviations (Including words undescribed in this report)

A2LA	The American Association for Laboratory Accreditation	IEC	International Electrotechnical Commission
AC	Alternating Current	IEEE	Institute of Electrical and Electronics Engineers
AFH	Adaptive Frequency Hopping	IF	Intermediate Frequency
AM	Amplitude Modulation	ILAC	International Laboratory Accreditation Conference
Amp, AMP	Amplifier	ISED	Innovation, Science and Economic Development Canada
ANSI	American National Standards Institute	ISO	International Organization for Standardization
Ant, ANT	Antenna	JAB	Japan Accreditation Board
AP	Access Point	LAN	Local Area Network
ASK	Amplitude Shift Keying	LIMS	Laboratory Information Management System
Atten., ATT	Attenuator	MCS	Modulation and Coding Scheme
AV	Average	MRA	Mutual Recognition Arrangement
BPSK	Binary Phase-Shift Keying	N/A	Not Applicable
BR	Bluetooth Basic Rate	NIST	National Institute of Standards and Technology
BT	Bluetooth	NS	No signal detect.
BT LE	Bluetooth Low Energy	NSA	Normalized Site Attenuation
BW	BandWidth	NVLAP	National Voluntary Laboratory Accreditation Program
Cal Int	Calibration Interval	OBW	Occupied Band Width
CCK	Complementary Code Keying	OFDM	Orthogonal Frequency Division Multiplexing
Ch., CH	Channel	OFDMA	Orthogonal Frequency Division Multiple Access
CISPR	Comite International Special des Perturbations Radioelectriques	P/M	Power meter
CW	Continuous Wave	PCB	Printed Circuit Board
DBPSK	Differential BPSK	PER	Packet Error Rate
DC	Direct Current	PHY	Physical Layer
D-factor	Distance factor	PK	Peak
DFS	Dynamic Frequency Selection	PN	Pseudo random Noise
DQPSK	Differential QPSK	PP	Preamble Puncturing
DSSS	Direct Sequence Spread Spectrum	PRBS	Pseudo-Random Bit Sequence
EDR	Enhanced Data Rate	PSD	Power Spectral Density
EIRP, e.i.r.p.	Equivalent Isotropically Radiated Power	QAM	Quadrature Amplitude Modulation
EMC	ElectroMagnetic Compatibility	QP	Quasi-Peak
EMI	ElectroMagnetic Interference	QPSK	Quadri-Phase Shift Keying
EN	European Norm	RBW	Resolution Band Width
ERP, e.r.p.	Effective Radiated Power	RDS	Radio Data System
EU	European Union	RE	Radio Equipment
EUT	Equipment Under Test	RF	Radio Frequency
Fac.	Factor	RMS	Root Mean Square
FCC	Federal Communications Commission	RSS	Radio Standards Specifications
FHSS	Frequency Hopping Spread Spectrum	Rx	Receiving
FM	Frequency Modulation	SA, S/A	Spectrum Analyzer
Freq.	Frequency	SG	Signal Generator
FSK	Frequency Shift Keying	SVSWR	Site-Voltage Standing Wave Ratio
GFSK	Gaussian Frequency-Shift Keying	TR	Test Receiver
GNSS	Global Navigation Satellite System	Tx	Transmitting
GPS	Global Positioning System	VBW	Video BandWidth
Hori.	Horizontal	Vert.	Vertical
ICES	Interference-Causing Equipment Standard	WLAN	Wireless LAN

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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 Navigation
Model Number	TN0051A
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 13, 2026
Test Date	February 27 to March 23, 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	0.78 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	1.63 dBi	

WLAN (IEEE802.11a/11n-20/11ac-20/11ax-20/11n-40/11ac-40/11ax-40/11ac-80/11ax-80)

Equipment Type	Transceiver	
Frequency of Operation	20 MHz Band	5180 MHz to 5240 MHz 5745 MHz to 5805 MHz
	40 MHz Band	5190 MHz to 5230 MHz 5755 MHz to 5795 MHz
	80 MHz Band	5210 MHz 5775 MHz
Type of Modulation	OFDM	
	OFDMA (IEEE802.11ax Only)	20 MHz: 26/52/106/242-tone RU
		40 MHz: 26/52/106/242/484-tone RU 80 MHz: 26/52/106/242/484/996-tone RU
Antenna Type	Inverted F Antenna	
Antenna Gain: G_{ANT}	Antenna 1: 1.22 dBi	
	Antenna 2: 0.20 dBi	
Directional Antenna Gain *1)	3.74 dBi	

*1) Directional antenna gain = $10 \log \left(\left(10^{\frac{Gain(Ant1)}{20}} + 10^{\frac{Gain(Ant2 \text{ or } Ant3)}{20}} \right)^2 / 2 \right)$

AM/FM

Equipment Type	Receiver	
Frequency of Operation	AM: 530 kHz to 1710 kHz FM: Band II: 87.75 MHz to 107.9 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 C The latest version on the first day of the testing period
Title	FCC 47 CFR Part 15 Radio Frequency Device Subpart C Intentional Radiators Section 15.207 Conducted limits Section 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

3.2 Reference Standards

ANSI/USEMCSC C63.2-2023
ANSI C63.4-2014/C63.4a-2017
ANSI C63.5-2017
ANSI C63.10-2020
ANSI/USEMCSC C63.10/Cor 1-2023
ANSI/USEMCSC C63.10a-2024 (incl. Errata) for ISED
ANSI C63.25.1-2018
KDB 558074 D01 v05r02
KDB 662911 D01 v02r01 for FCC MIMO device

3.3 Summary of Test Results

Item	Specification	Results	Remarks
Spurious Emission Restricted Band Edges	FCC: Section 15.247(d) ISED: RSS-247 section 6.6 RSS-Gen section 8.9 RSS-Gen section 8.10	Complied	Radiated (above 30 MHz) *1)
Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.			
*1) Radiated test was selected over 30 MHz based on section 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 8.5 and 8.6.			

FCC Part 15.31 (e)

This EUT provides the stable voltage constantly to RF Module regardless of input voltage.
Therefore, this EUT complies with the requirement.

FCC Part 15.203/212 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT.
Therefore, the equipment complies with the antenna requirement of Section 15.203.

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
10 m			dB	4.7
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	5.5
1 m	6 GHz to 18 GHz		dB	5.5
	18 GHz to 26.5 GHz		dB	5.7
	26.5 GHz to 40 GHz		dB	4.8
0.5 m	18 GHz to 40 GHz		dB	5.8

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	Remarks*
Bluetooth Low Energy (BT LE)	Uncoded 1M-PHY (1M), Maximum Packet Size, PRBS9
Bluetooth Low Energy (BT LE)	Uncoded 2M-PHY (2M), Maximum Packet Size, PRBS9
*Power of the EUT was set by the software as follows; Power Setting: 0 dBm Software: Qualcomm Radio Control Toolkit Version: 4.0.209.0 (Date: 2022.08.17, Storage location: Driven by connected PC) *This setting of software is the worst case. Any conditions under the normal use do not exceed the condition of setting. In addition, end users cannot change the settings of the output power of the product.	

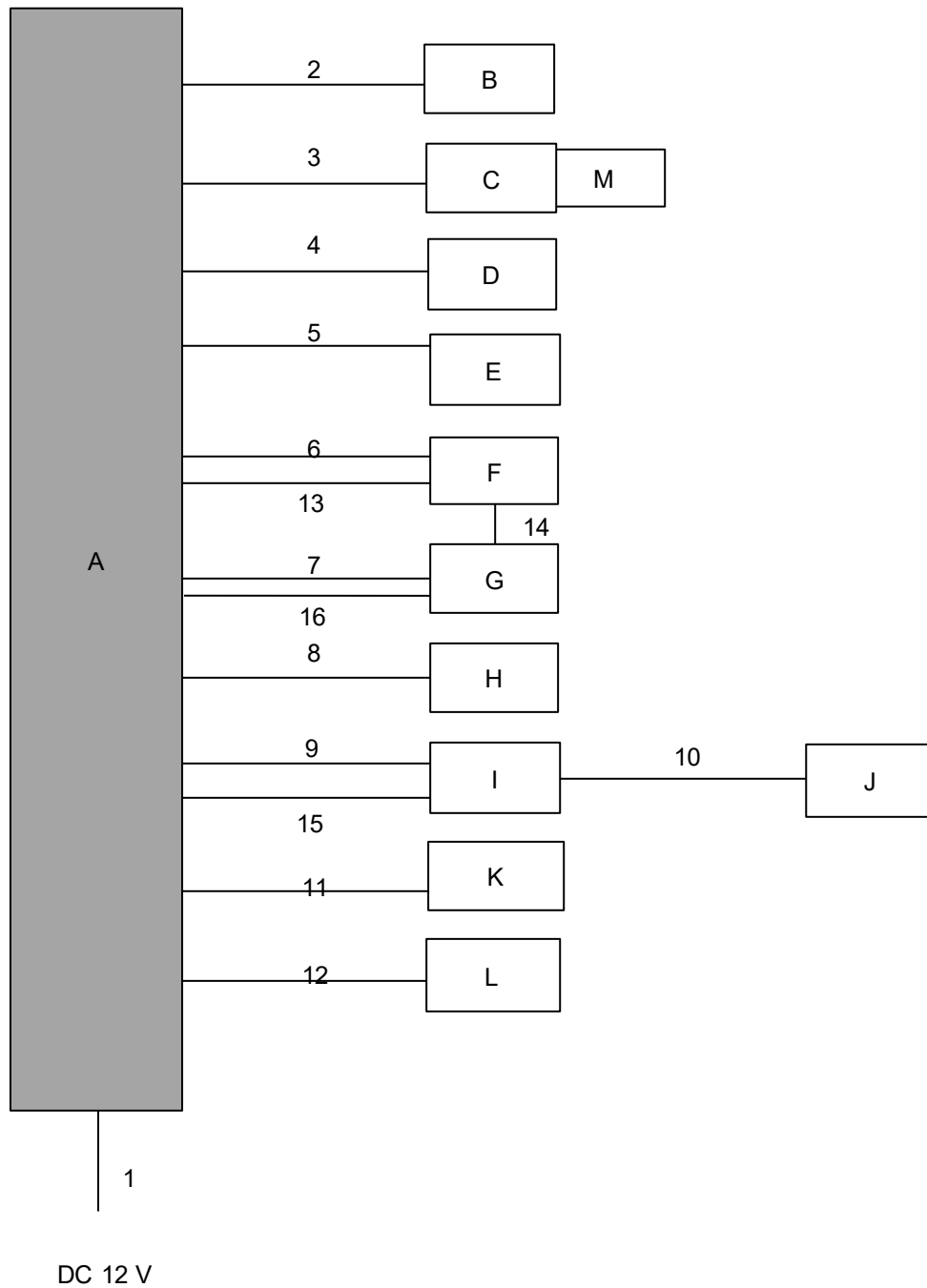
*The Details of Operating Mode(s)

Test Item	Operating Mode	Tested Antenna	Tested Frequency
Radiated Spurious Emission (Below 1 GHz)	Tx BT LE 2M *1)	Antenna 1	2402 MHz
Radiated Spurious Emission (Above 1 GHz)	Tx BT LE 1M Tx BT LE 2M	Antenna 1	2402 MHz 2440 MHz 2480 MHz
*1) Spurious emissions for frequencies below 1 GHz were limited to the channel that had the highest power during the antenna terminal test, as preliminary testing indicated that changing the operating frequency had no significant impact on the emissions in those frequency bands.			

Simultaneous transmission

Test Item	Mode *1)	Tested Antenna
Radiated Spurious Emission	Tx BT LE 2M 2402 MHz + Tx 11ax-20 5220 MHz	Bluetooth (Antenna 1) + 11ax (Antenna 1) *1)
*1) The test was performed on the mode as a representative, because it had the highest power (11ax-20 (OFDM) mode /Antenna 1) of 5 GHz band at antenna terminal test.		

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 Navigation	TN0051A	AYB00014	DENSO TEN Limited	EUT
B	Jig Board	-	-	-	-
C	USB Adapter	DEP38-10029	No.5	KP	-
D	Switch	-	-	-	-
E	Meter	83800-4AL70	457410-0021	DENSO	-
F	DCM	86741-42301	No.12	LGE	-
G	FM/AM/XM Antenna	86760-33250	No.3	MinebeaMitsumi	-
H	Speaker	-	-	-	-
I	I/F Conversion Box	867B1-42010	No.22	TOKAI RIKA	-
J	BGM Camera	8679B-42010	No.17	KYOCERA	-
K	MIC	86730-42130	No.121	KP	-
L	MIC	86730-42130	No.115	KP	-
M	USB Memory	-	-	Sony corporation	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	4.0	Unshielded	Unshielded	-
2	Flat Cable	0.1	Unshielded	Unshielded	-
3	Signal Cable	2.5	Shielded	Shielded	-
4	Signal Cable	2.5	Unshielded	Unshielded	-
5	DC & Signal Cable	2.5	Unshielded	Unshielded	-
6	Signal Cable	2.5	Unshielded	Unshielded	-
7	FM/AM Antenna Cable	6.0	Unshielded	Unshielded	-
8	Speaker Cable	2.8	Unshielded	Unshielded	-
9	Signal Cable	1.0	Unshielded	Unshielded	-
10	Camera Cable	2.0	Shielded	Shielded	-
11	MIC Cable	2.5	Unshielded	Unshielded	-
12	MIC Cable	2.5	Unshielded	Unshielded	-
13	Signal Cable	2.0	Unshielded	Unshielded	-
14	Antenna Cable	6.0	Shielded	Shielded	-
15	DC & Signal Cable	2.5	Unshielded	Unshielded	-
16	XM Antenna Cable	6.0	Unshielded	Unshielded	-

SECTION 5: Radiated Spurious Emission

Test Procedure

[For below 1 GHz]

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 Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

[For above 1 GHz]

EUT was placed on the platform of nominal size, 0.5 m by 0.5 m, raised 1.5 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with absorbent materials lined on a ground plane. Test antenna was aimed at the EUT for receiving the maximum signal and always kept within the illumination area of the 3 dB beamwidth of the antenna.

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

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

The measurements were made with the following detector function of the test receiver and the Spectrum analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

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

Test Antennas are used as below;

Frequency	30 MHz to 200 MHz	200 MHz to 1 GHz	Above 1 GHz
Antenna Type	Biconical	Logperiodic	Horn

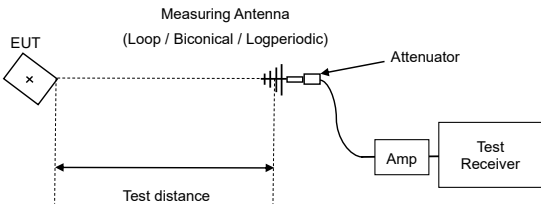
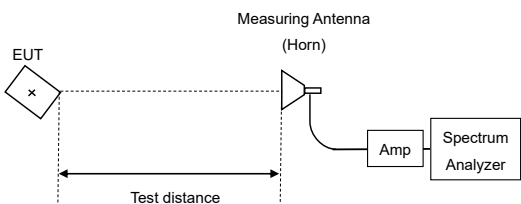
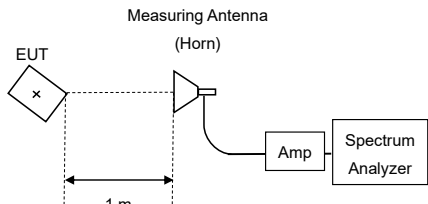
In any 100 kHz bandwidth outside the restricted band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.

20 dBc was applied to the frequency over the limit of FCC 15.209 / Table 4 of RSS-Gen 8.9(ISED) and outside the restricted band of FCC15.205 / Table 6 of RSS-Gen 8.10 (ISED).

It was measured with the settings below based on ANSI C63.10.

Frequency	Below 1 GHz	Above 1 GHz		20 dBc
Instrument Used	Test Receiver	Spectrum Analyzer		Spectrum Analyzer
Detector	QP	PK	AV	PK
IF Bandwidth	BW 120 kHz	RBW: 1 MHz VBW: 3 MHz	11.12.2.5.1 RBW: 1 MHz VBW: 3 MHz Detector: Power Averaging (RMS) Trace: 100 traces 11.12.2.5.2 The duty cycle was less than 98% for detected noise, a duty factor was added to the 11.12.2.5.1 results.	RBW: 100 kHz VBW: 300 kHz

Figure 1: Test Setup

Below 1 GHz  × : Center of turn table	Test Distance: 3 m
1 GHz to 18 GHz  × : Center of turn table	Test Distance: 3 m
18 GHz to 26.5 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.

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

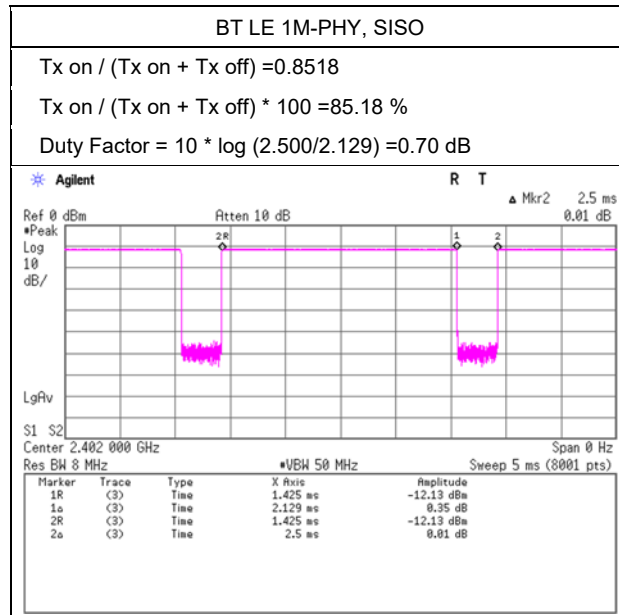
Measurement Range : 30 MHz to 26.5 GHz
Test Data : APPENDIX
Test Result : Pass

APPENDIX 1: Test Data

Burst rate confirmation

Mode	Tx BT LE 1M-PHY, SISO
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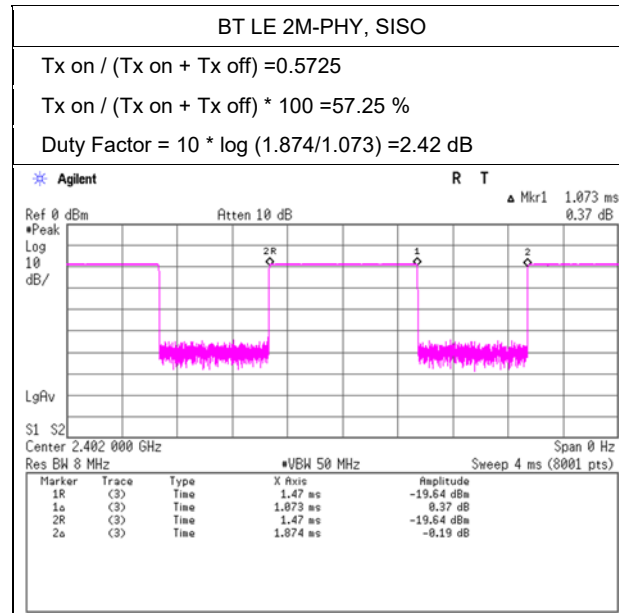
Date	Test Place	Temperature	Humidity	Engineer
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone



Burst rate confirmation

Mode	Tx BT LE 2M-PHY, SISO			
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Date	Test Place	Temperature	Humidity	Engineer
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone



Radiated Spurious Emission

Mode	Tx BT LE 1M 2402 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone	1 GHz to 10 GHz
March 6, 2026	SAC3	20 deg. C	41 % RH	Nachi Konegawa	10 GHz to 18 GHz
March 11, 2026	SAC3	23 deg. C	30 % RH	Tomoya Sone	Above 18 GHz

Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	1584.9	61.0	43.8	25.1	2.4	33.6	-	54.9	37.8	73.9	53.9	19.0	16.1	*1)
Hori.	2390.0	45.7	34.1	27.6	3.0	33.0	0.7	43.3	32.4	73.9	53.9	30.7	21.5	
Hori.	2528.8	55.0	50.5	27.5	3.1	33.0	-	52.6	48.1	73.9	53.9	21.3	5.8	
Hori.	3169.8	50.1	41.2	28.6	3.5	33.0	-	49.1	40.2	73.9	53.9	24.8	13.7	Floor noise
Hori.	4804.0	43.6	33.3	31.6	5.2	32.5	-	47.8	37.5	73.9	53.9	26.1	16.4	
Hori.	6339.6	47.3	36.1	33.3	5.9	32.3	-	54.2	43.0	73.9	53.9	19.7	10.9	
Hori.	7206.0	44.8	33.8	35.9	6.4	32.4	-	54.7	43.7	73.9	53.9	19.2	10.2	Floor noise
Hori.	9608.0	44.5	33.1	38.7	7.0	33.1	-	57.2	45.8	73.9	53.9	16.7	8.2	Floor noise
Vert.	1584.9	64.9	50.2	25.1	2.4	33.6	-	58.9	44.2	73.9	53.9	15.0	9.7	*1)
Vert.	2390.0	46.1	33.9	27.6	3.0	33.0	0.7	43.7	32.1	73.9	53.9	30.2	21.8	
Vert.	2528.8	53.0	48.1	27.5	3.1	33.0	-	50.6	45.7	73.9	53.9	23.3	8.2	
Vert.	3169.8	52.6	44.0	28.6	3.5	33.0	-	51.6	43.0	73.9	53.9	22.3	10.9	Floor noise
Vert.	4804.0	43.6	33.3	31.6	5.2	32.5	-	47.8	37.5	73.9	53.9	26.1	16.4	
Vert.	6339.6	47.5	37.9	33.3	5.9	32.3	-	54.4	44.8	73.9	53.9	19.6	9.1	
Vert.	7206.0	44.8	33.8	35.9	6.4	32.4	-	54.7	43.7	73.9	53.9	19.2	10.2	Floor noise
Vert.	9608.0	44.5	33.1	38.7	7.0	33.1	-	57.2	45.8	73.9	53.9	16.7	8.2	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)

Result (AV) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz

*1) Not Out of Band emission(Leakage Power)

20dBc Data Sheet

Polarity	Frequency	Reading (PK)	Ant Factor	Loss	Gain	Result	Limit	Margin	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
Hori.	2402.0	96.2	27.5	3.0	33.0	93.7	-	-	Carrier
Hori.	2400.0	39.0	27.5	3.0	33.0	36.6	73.7	37.1	
Vert.	2402.0	95.2	27.5	3.0	33.0	92.7	-	-	Carrier
Vert.	2400.0	38.0	27.5	3.0	33.0	35.6	72.7	37.1	

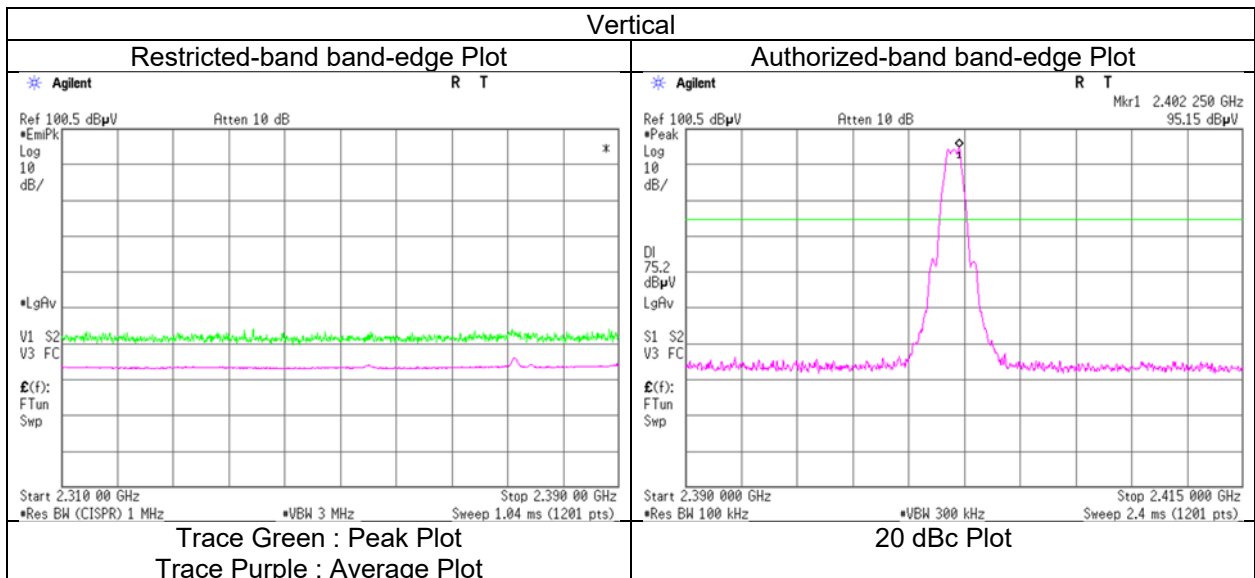
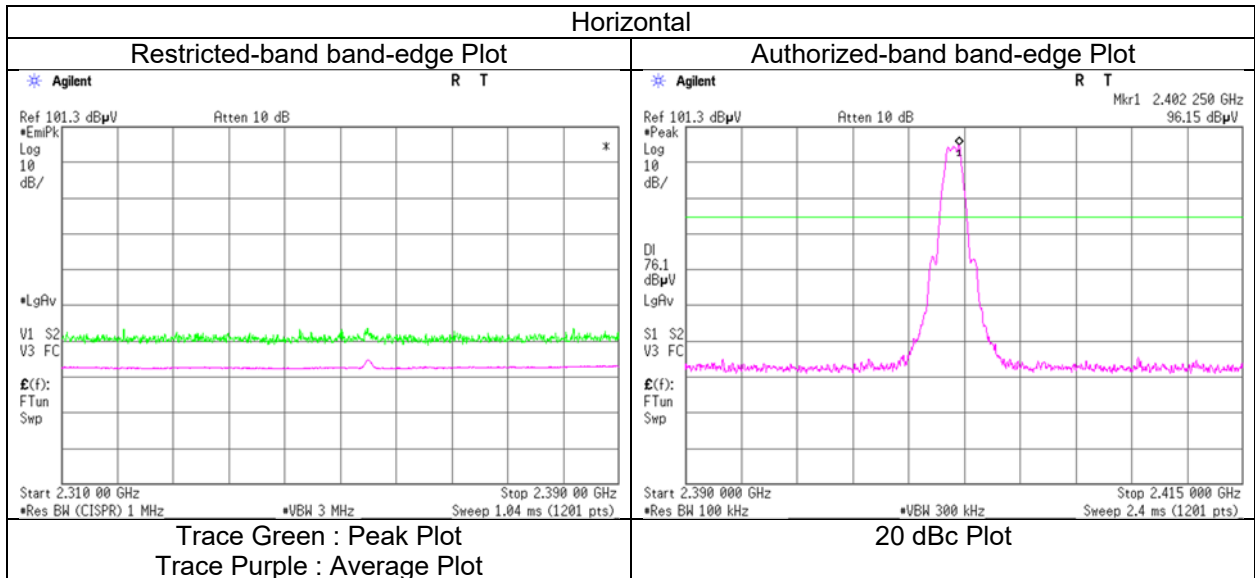
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)

Distance factor: 18 GHz - 26.5 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Mode	Tx BT LE 1M 2402 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone	1 GHz to 10 GHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

Final result of restricted band edge and authorized band edge were shown in tabular data.

Radiated Spurious Emission

Mode	Tx BT LE 1M 2440 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone	1 GHz to 10 GHz
March 6, 2026	SAC3	20 deg. C	41 % RH	Nachi Konegawa	10 GHz to 18 GHz
March 11, 2026	SAC3	23 deg. C	30 % RH	Tomoya Sone	Above 18 GHz

Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	1584.9	60.9	43.6	25.1	2.4	33.6	-	54.8	37.6	73.9	53.9	19.1	16.3	
Hori.	2528.8	54.9	50.3	27.5	3.1	33.0	-	52.5	47.9	73.9	53.9	21.4	6.0	
Hori.	3169.8	50.0	41.1	28.6	3.5	33.0	-	49.0	40.1	73.9	53.9	24.9	13.8	
Hori.	4880.0	44.6	35.3	31.6	5.2	32.5	-	48.9	39.6	73.9	53.9	25.0	14.3	Floor noise
Hori.	6339.6	47.1	36.0	33.3	5.9	32.3	-	54.0	42.9	73.9	53.9	19.9	11.0	
Hori.	7320.0	44.5	35.7	36.0	6.4	32.4	-	54.5	45.7	73.9	53.9	19.4	8.2	Floor noise
Hori.	9760.0	45.5	34.7	39.1	7.1	33.1	-	58.6	47.8	73.9	53.9	15.3	6.1	Floor noise
Vert.	1584.9	64.8	50.1	25.1	2.4	33.6	-	58.8	44.1	73.9	53.9	15.1	9.8	
Vert.	2528.8	53.0	48.0	27.5	3.1	33.0	-	50.6	45.6	73.9	53.9	23.3	8.3	
Vert.	3169.8	52.5	43.9	28.6	3.5	33.0	-	51.5	42.9	73.9	53.9	22.4	11.0	
Vert.	4880.0	44.6	35.3	31.6	5.2	32.5	-	48.9	39.6	73.9	53.9	25.0	14.3	Floor noise
Vert.	6339.6	47.4	37.6	33.3	5.9	32.3	-	54.3	44.5	73.9	53.9	19.7	9.4	
Vert.	7320.0	44.3	35.7	36.0	6.4	32.4	-	54.3	45.7	73.9	53.9	19.6	8.2	Floor noise
Vert.	9760.0	45.5	34.7	39.1	7.1	33.1	-	58.6	47.8	73.9	53.9	15.3	6.1	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 18 GHz - 26.5 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Mode	Tx BT LE 1M 2480 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone	1 GHz to 10 GHz
March 6, 2026	SAC3	20 deg. C	41 % RH	Nachi Konegawa	10 GHz to 18 GHz
March 11, 2026	SAC3	23 deg. C	30 % RH	Tomoya Sone	Above 18 GHz

Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	1584.9	60.9	43.7	25.1	2.4	33.6	-	54.8	37.7	73.9	53.9	19.1	16.2	*1)
Hori.	2483.5	44.9	34.0	27.4	3.1	33.0	0.7	42.4	32.2	73.9	53.9	31.5	21.7	
Hori.	2528.8	54.9	50.4	27.5	3.1	33.0	-	52.5	48.0	73.9	53.9	21.4	5.9	
Hori.	3169.8	50.1	41.2	28.6	3.5	33.0	-	49.1	40.2	73.9	53.9	24.8	13.7	Floor noise
Hori.	4960.0	43.8	33.0	31.8	5.2	32.5	-	48.2	37.4	73.9	53.9	25.7	16.5	
Hori.	6339.6	47.3	36.0	33.3	5.9	32.3	-	54.2	42.9	73.9	53.9	19.7	11.0	
Hori.	7440.0	44.1	33.1	36.2	6.4	32.5	-	54.3	43.2	73.9	53.9	19.7	10.7	Floor noise
Hori.	9920.0	44.5	33.8	39.1	7.1	33.1	-	57.6	47.0	73.9	53.9	16.3	7.0	Floor noise
Vert.	1584.9	64.8	50.1	25.1	2.4	33.6	-	58.8	44.1	73.9	53.9	15.1	9.8	*1)
Vert.	2483.5	44.6	34.0	27.4	3.1	33.0	0.7	42.2	32.2	73.9	53.9	31.7	21.7	
Vert.	2528.8	53.0	48.0	27.5	3.1	33.0	-	50.6	45.6	73.9	53.9	23.3	8.3	
Vert.	3169.8	52.5	44.0	28.6	3.5	33.0	-	51.5	43.0	73.9	53.9	22.4	10.9	Floor noise
Vert.	4960.0	43.8	33.0	31.8	5.2	32.5	-	48.2	37.4	73.9	53.9	25.7	16.5	
Vert.	6339.6	47.5	37.8	33.3	5.9	32.3	-	54.4	44.7	73.9	53.9	19.6	9.2	
Vert.	7440.0	44.1	33.1	36.2	6.4	32.5	-	54.3	43.2	73.9	53.9	19.7	10.7	Floor noise
Vert.	9920.0	44.5	33.8	39.1	7.1	33.1	-	57.6	47.0	73.9	53.9	16.3	7.0	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)

Result (AV) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

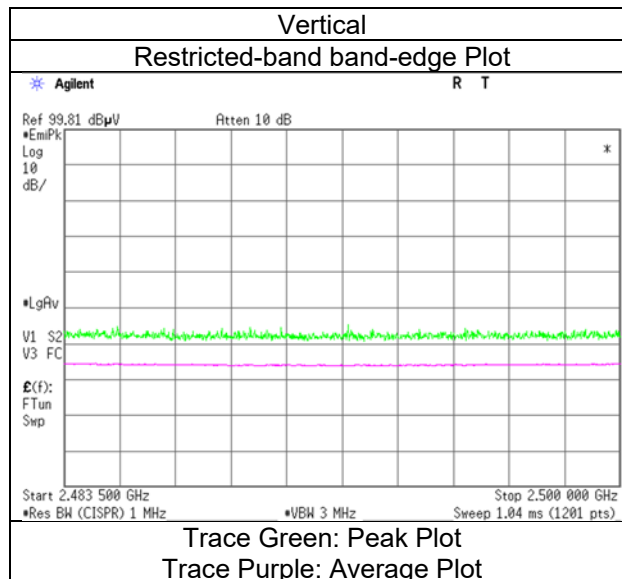
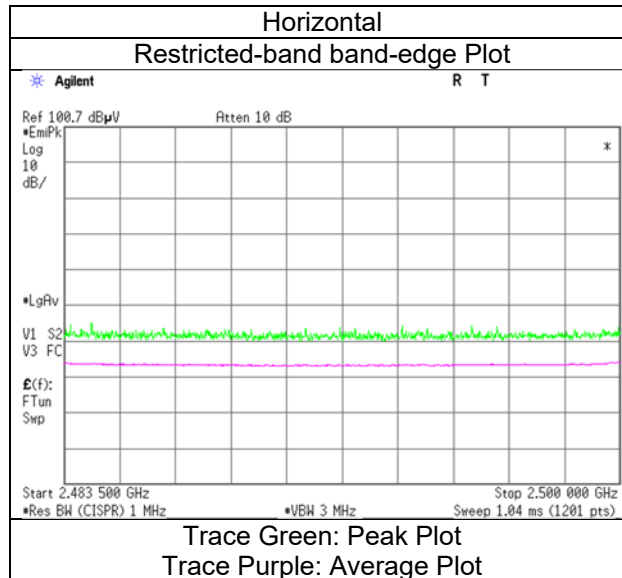
*1) Not Out of Band emission(Leakage Power)

Distance factor: 18 GHz - 26.5 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Mode	Tx BT LE 1M 2480 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone	1 GHz to 10 GHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Mode	Tx BT LE 2M 2402 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone	1 GHz to 10 GHz
March 6, 2026	SAC3	20 deg. C	41 % RH	Nachi Konegawa	10 GHz to 18 GHz
March 11, 2026	SAC3	23 deg. C	30 % RH	Tomoya Sone	Above 18 GHz
March 4, 2026	SAC4	23 deg. C	40 % RH	Takafumi Noguchi	Below 1 GHz

Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	312.2	45.2	-	13.8	9.7	32.1	-	36.6	-	46.0	-	9.4	-	
Hori.	352.3	44.2	-	15.0	9.9	32.1	-	36.9	-	46.0	-	9.1	-	
Hori.	367.0	45.0	-	15.0	9.9	32.1	-	37.8	-	46.0	-	8.2	-	
Hori.	792.4	33.1	-	20.5	11.8	31.8	-	33.5	-	46.0	-	12.5	-	
Hori.	875.0	32.9	-	21.7	12.1	31.3	-	35.3	-	46.0	-	10.7	-	
Hori.	958.5	30.0	-	21.9	12.5	30.8	-	33.6	-	46.0	-	12.5	-	
Hori.	1584.9	60.8	43.7	25.1	2.4	33.6	-	54.7	37.7	73.9	53.9	19.2	16.2	
Hori.	2390.0	46.2	36.0	27.6	3.0	33.0	2.4	43.8	36.0	73.9	53.9	30.1	17.9	*1)
Hori.	2528.8	54.9	50.4	27.5	3.1	33.0	-	52.5	48.0	73.9	53.9	21.4	5.9	
Hori.	3169.8	50.0	41.1	28.6	3.5	33.0	-	49.0	40.1	73.9	53.9	24.9	13.8	
Hori.	4804.0	43.6	33.3	31.6	5.2	32.5	-	47.8	37.5	73.9	53.9	26.1	16.4	Floor noise
Hori.	6339.6	47.1	36.0	33.3	5.9	32.3	-	54.0	42.9	73.9	53.9	19.9	11.0	
Hori.	7206.0	44.8	33.8	35.9	6.4	32.4	-	54.7	43.7	73.9	53.9	19.2	10.2	Floor noise
Hori.	9608.0	44.5	33.1	38.7	7.0	33.1	-	57.2	45.8	73.9	53.9	16.7	8.2	Floor noise
Vert.	314.9	39.5	-	13.9	9.7	32.1	-	31.0	-	46.0	-	15.0	-	
Vert.	351.8	39.3	-	15.0	9.9	32.1	-	32.0	-	46.0	-	14.0	-	
Vert.	374.3	39.2	-	15.0	9.9	32.1	-	32.0	-	46.0	-	14.0	-	
Vert.	792.4	26.5	-	20.5	11.8	31.8	-	26.9	-	46.0	-	19.1	-	
Vert.	875.0	27.6	-	21.7	12.1	31.3	-	30.0	-	46.0	-	16.0	-	
Vert.	958.5	32.4	-	21.9	12.5	30.8	-	36.0	-	46.0	-	10.1	-	
Vert.	1584.9	64.8	50.1	25.1	2.4	33.6	-	58.8	44.1	73.9	53.9	15.1	9.8	
Vert.	2390.0	47.2	33.8	27.6	3.0	33.0	2.4	44.8	33.8	73.9	53.9	29.1	20.2	*1)
Vert.	2528.8	52.8	47.9	27.5	3.1	33.0	-	50.4	45.5	73.9	53.9	23.5	8.4	
Vert.	3169.8	52.5	43.8	28.6	3.5	33.0	-	51.5	42.8	73.9	53.9	22.4	11.1	
Vert.	4804.0	43.6	33.3	31.6	5.2	32.5	-	47.8	37.5	73.9	53.9	26.1	16.4	Floor noise
Vert.	6339.6	47.3	37.8	33.3	5.9	32.3	-	54.2	44.7	73.9	53.9	19.8	9.2	
Vert.	7206.0	44.8	33.8	35.9	6.4	32.4	-	54.7	43.7	73.9	53.9	19.2	10.2	Floor noise
Vert.	9608.0	44.5	33.1	38.7	7.0	33.1	-	57.2	45.8	73.9	53.9	16.7	8.2	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)
 Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier) + Duty factor
 *Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
 *QP detector was used up to 1GHz.
 *1) Not Out of Band emission(Leakage Power)

20dBc Data Sheet

Polarity	Frequency	Reading (PK)	Ant Factor	Loss	Gain	Result	Limit	Margin	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
Hori.	2402.0	96.3	27.5	3.0	33.0	93.8	-	-	Carrier
Hori.	2400.0	49.5	27.5	3.0	33.0	47.1	73.8	26.7	
Vert.	2402.0	94.9	27.5	3.0	33.0	92.5	-	-	Carrier
Vert.	2400.0	48.3	27.5	3.0	33.0	45.9	72.5	26.6	

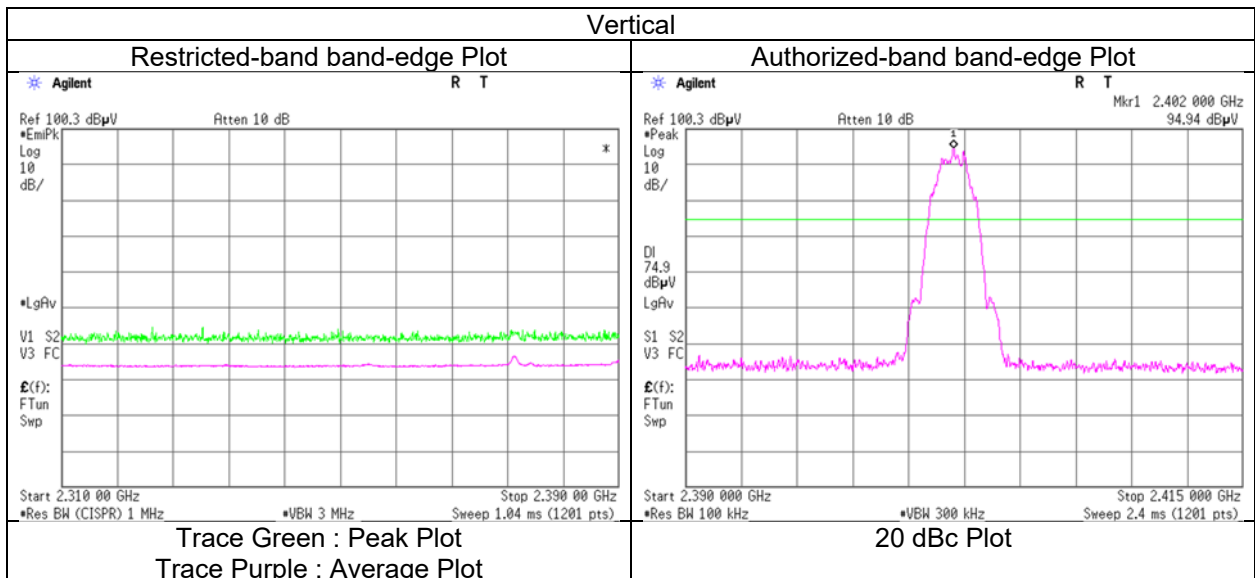
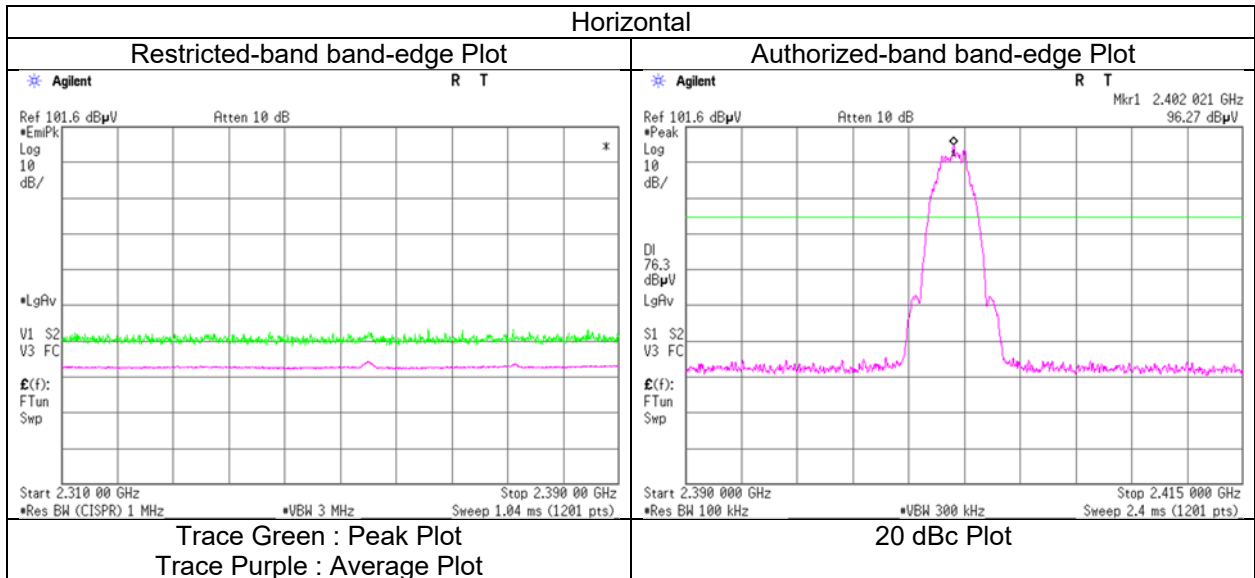
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)

Distance factor: 18 GHz - 26.5 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Mode	Tx BT LE 2M 2402 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone	1 GHz to 10 GHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

Final result of restricted band edge and authorized band edge were shown in tabular data.

Radiated Spurious Emission

Mode	Tx BT LE 2M 2440 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone	1 GHz to 10 GHz
March 6, 2026	SAC3	20 deg. C	41 % RH	Nachi Konegawa	10 GHz to 18 GHz
March 11, 2026	SAC3	23 deg. C	30 % RH	Tomoya Sone	Above 18 GHz

Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	1584.9	61.0	43.7	25.1	2.4	33.6	-	54.9	37.7	73.9	53.9	19.0	16.2	
Hori.	2528.8	55.1	50.5	27.5	3.1	33.0	-	52.7	48.1	73.9	53.9	21.2	5.8	
Hori.	3169.8	50.3	41.3	28.6	3.5	33.0	-	49.3	40.3	73.9	53.9	24.6	13.6	
Hori.	4880.0	44.6	35.3	31.6	5.2	32.5	-	48.9	39.6	73.9	53.9	25.0	14.3	Floor noise
Hori.	6339.6	46.9	35.9	33.3	5.9	32.3	-	53.8	42.8	73.9	53.9	20.1	11.1	
Hori.	7320.0	44.5	35.7	36.0	6.4	32.4	-	54.5	45.7	73.9	53.9	19.4	8.2	Floor noise
Hori.	9760.0	45.5	34.7	39.1	7.1	33.1	-	58.6	47.8	73.9	53.9	15.3	6.1	Floor noise
Vert.	1584.9	64.9	50.3	25.1	2.4	33.6	-	58.9	44.3	73.9	53.9	15.0	9.6	
Vert.	2528.8	53.1	48.2	27.5	3.1	33.0	-	50.7	45.8	73.9	53.9	23.2	8.1	
Vert.	3169.8	52.6	43.8	28.6	3.5	33.0	-	51.6	42.8	73.9	53.9	22.3	11.1	
Vert.	4880.0	44.6	35.3	31.6	5.2	32.5	-	48.9	39.6	73.9	53.9	25.0	14.3	Floor noise
Vert.	6339.6	47.3	37.4	33.3	5.9	32.3	-	54.2	44.3	73.9	53.9	19.8	9.6	
Vert.	7320.0	44.3	35.7	36.0	6.4	32.4	-	54.3	45.7	73.9	53.9	19.6	8.2	Floor noise
Vert.	9760.0	45.5	34.7	39.1	7.1	33.1	-	58.6	47.8	73.9	53.9	15.3	6.1	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 18 GHz - 26.5 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Mode	Tx BT LE 2M 2480 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone	1 GHz to 10 GHz
March 6, 2026	SAC3	20 deg. C	41 % RH	Nachi Konegawa	10 GHz to 18 GHz
March 11, 2026	SAC3	23 deg. C	30 % RH	Tomoya Sone	Above 18 GHz

Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	1584.9	61.1	43.9	25.1	2.4	33.6	-	55.0	37.9	73.9	53.9	18.9	16.0	*1)
Hori.	2483.5	46.3	34.2	27.4	3.1	33.0	2.4	43.8	34.1	73.9	53.9	30.1	19.8	
Hori.	2528.8	55.2	50.6	27.5	3.1	33.0	-	52.8	48.2	73.9	53.9	21.1	5.7	
Hori.	3169.8	50.4	41.5	28.6	3.5	33.0	-	49.4	40.5	73.9	53.9	24.5	13.4	Floor noise
Hori.	4960.0	43.8	33.0	31.8	5.2	32.5	-	48.2	37.4	73.9	53.9	25.7	16.5	
Hori.	6339.6	47.5	36.3	33.3	5.9	32.3	-	54.4	43.2	73.9	53.9	19.5	10.7	
Hori.	7440.0	44.1	33.1	36.2	6.4	32.5	-	54.3	43.2	73.9	53.9	19.7	10.7	Floor noise
Hori.	9920.0	44.5	33.8	39.1	7.1	33.1	-	57.6	47.0	73.9	53.9	16.3	7.0	Floor noise
Vert.	1584.9	64.9	50.3	25.1	2.4	33.6	-	58.9	44.3	73.9	53.9	15.0	9.6	*1)
Vert.	2483.5	45.4	34.1	27.4	3.1	33.0	2.4	43.0	34.1	73.9	53.9	30.9	19.9	
Vert.	2528.8	53.3	48.4	27.5	3.1	33.0	-	50.9	46.0	73.9	53.9	23.0	7.9	
Vert.	3169.8	52.6	44.3	28.6	3.5	33.0	-	51.6	43.3	73.9	53.9	22.3	10.6	Floor noise
Vert.	4960.0	43.8	33.0	31.8	5.2	32.5	-	48.2	37.4	73.9	53.9	25.7	16.5	
Vert.	6339.6	47.7	38.0	33.3	5.9	32.3	-	54.6	44.9	73.9	53.9	19.4	9.0	
Vert.	7440.0	44.1	33.1	36.2	6.4	32.5	-	54.3	43.2	73.9	53.9	19.7	10.7	Floor noise
Vert.	9920.0	44.5	33.8	39.1	7.1	33.1	-	57.6	47.0	73.9	53.9	16.3	7.0	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)

Result (AV) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

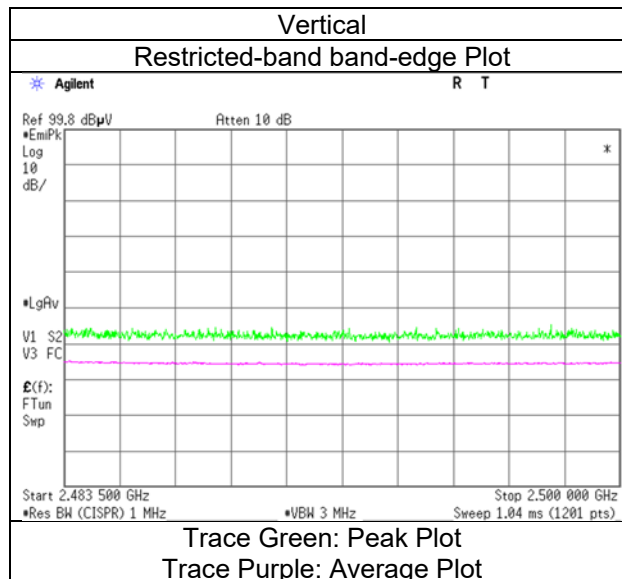
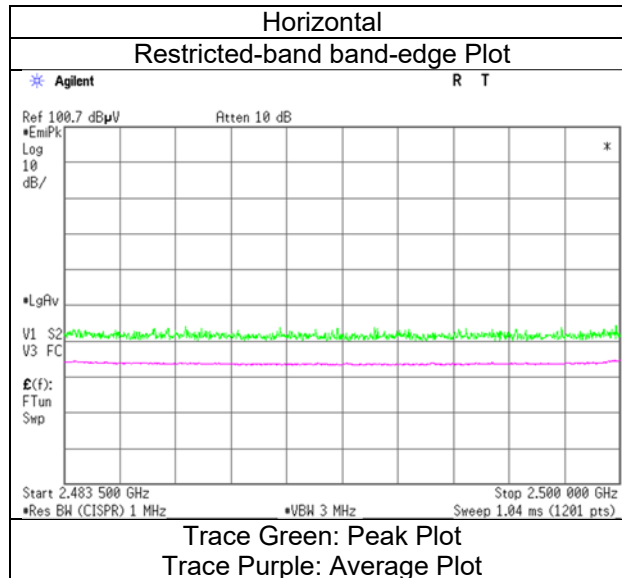
*1) Not Out of Band emission(Leakage Power)

Distance factor: 18 GHz - 26.5 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Mode	Tx BT LE 2M 2480 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone	1 GHz to 10 GHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Mode	Tx BT LE 2M 2402 MHz + 11ax-20(OFDM) 5220 MHz
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 6, 2026	SAC3	20 deg. C	41 % RH	Nachi Konegawa	1 GHz to 18 GHz
March 11, 2026	SAC3	23 deg. C	30 % RH	Tomoya Sone	Above 18 GHz
March 4, 2026	SAC4	23 deg. C	40 % RH	Takafumi Noguchi	Below 1 GHz

Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	312.2	44.7	-	13.8	9.7	32.1	-	36.1	-	46.0	-	9.9	-	
Hori.	352.3	44.4	-	15.0	9.9	32.1	-	37.1	-	46.0	-	8.9	-	
Hori.	367.0	45.3	-	15.0	9.9	32.1	-	38.1	-	46.0	-	7.9	-	
Hori.	792.4	33.5	-	20.5	11.8	31.8	-	33.9	-	46.0	-	12.1	-	
Hori.	875.0	32.7	-	21.7	12.1	31.3	-	35.1	-	46.0	-	10.9	-	
Hori.	958.5	29.7	-	21.9	12.5	30.8	-	33.3	-	46.0	-	12.8	-	
Hori.	1584.9	62.6	46.5	25.2	2.4	33.2	-	57.0	40.9	73.9	53.9	16.9	13.0	
Hori.	2354.0	43.1	32.7	27.7	3.0	32.1	2.4	41.7	33.8	73.9	53.9	32.2	20.2	*2)
Hori.	2390.0	44.4	32.5	27.6	3.0	32.0	2.4	42.9	33.4	73.9	53.9	31.0	20.5	*1)
Hori.	2528.8	55.0	51.9	27.4	3.1	32.0	-	53.5	50.5	73.9	53.9	20.4	3.5	
Hori.	3169.8	51.8	42.6	28.5	3.5	31.7	-	52.1	42.9	73.9	53.9	21.8	11.1	
Hori.	4804.0	41.4	32.8	31.2	5.2	30.9	-	46.9	38.2	73.9	53.9	27.0	15.7	Floor noise
Hori.	6339.6	51.2	41.0	33.3	5.9	31.3	-	59.1	48.9	73.9	53.9	14.8	5.0	
Hori.	6960.0	46.3	39.0	35.0	6.4	31.8	-	55.9	48.7	73.9	53.9	18.0	5.3	
Hori.	7206.0	43.1	34.3	35.8	6.4	31.9	-	53.3	44.5	73.9	53.9	20.6	9.4	Floor noise
Hori.	9608.0	43.9	34.1	38.4	6.8	32.4	-	56.8	47.0	73.9	53.9	17.2	6.9	Floor noise
Vert.	314.9	39.8	-	13.9	9.7	32.1	-	31.3	-	46.0	-	14.7	-	
Vert.	351.8	39.1	-	15.0	9.9	32.1	-	31.8	-	46.0	-	14.2	-	
Vert.	374.3	38.9	-	15.0	9.9	32.1	-	31.7	-	46.0	-	14.3	-	
Vert.	792.4	26.0	-	20.5	11.8	31.8	-	26.4	-	46.0	-	19.6	-	
Vert.	875.0	27.8	-	21.7	12.1	31.3	-	30.2	-	46.0	-	15.8	-	
Vert.	958.5	31.9	-	21.9	12.5	30.8	-	35.5	-	46.0	-	10.6	-	
Vert.	1584.9	67.2	51.3	25.2	2.4	33.2	-	61.6	45.7	73.9	53.9	12.3	8.2	
Vert.	2354.0	43.9	33.3	27.7	3.0	32.1	2.4	42.5	34.3	73.9	53.9	31.4	19.6	*2)
Vert.	2390.0	44.1	34.0	27.6	3.0	32.0	2.4	42.7	34.9	73.9	53.9	31.2	19.0	*1)
Vert.	2528.8	53.4	50.3	27.4	3.1	32.0	-	52.0	48.9	73.9	53.9	22.0	5.1	
Vert.	3169.8	53.5	44.8	28.5	3.5	31.7	-	53.8	45.1	73.9	53.9	20.1	8.8	
Vert.	4804.0	41.4	32.8	31.2	5.2	30.9	-	46.9	38.2	73.9	53.9	27.0	15.7	Floor noise
Vert.	6339.6	51.0	40.9	33.3	5.9	31.3	-	58.9	48.9	73.9	53.9	15.0	5.0	
Vert.	6960.0	47.8	41.2	35.0	6.4	31.8	-	57.4	50.8	73.9	53.9	16.5	3.1	
Vert.	7206.0	43.1	34.3	35.8	6.4	31.9	-	53.3	44.5	73.9	53.9	20.6	9.4	Floor noise
Vert.	9608.0	43.9	34.1	38.4	6.8	32.4	-	56.8	47.0	73.9	53.9	17.2	6.9	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

*1) Not Out of Band emission(Leakage Power)

*2) Noise synchronized with duty of carrier frequency

20dBc Data Sheet

Polarity	Frequency	Reading (PK)	Ant Factor	Loss	Gain	Result	Limit	Margin	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
Hori.	2402.0	95.2	27.5	3.0	32.0	93.7	-	-	Carrier
Hori.	2400.0	48.5	27.5	3.0	32.0	47.0	73.7	26.7	
Vert.	2402.0	94.7	27.5	3.0	32.0	93.2	-	-	Carrier
Vert.	2400.0	47.8	27.5	3.0	32.0	46.3	73.2	26.9	

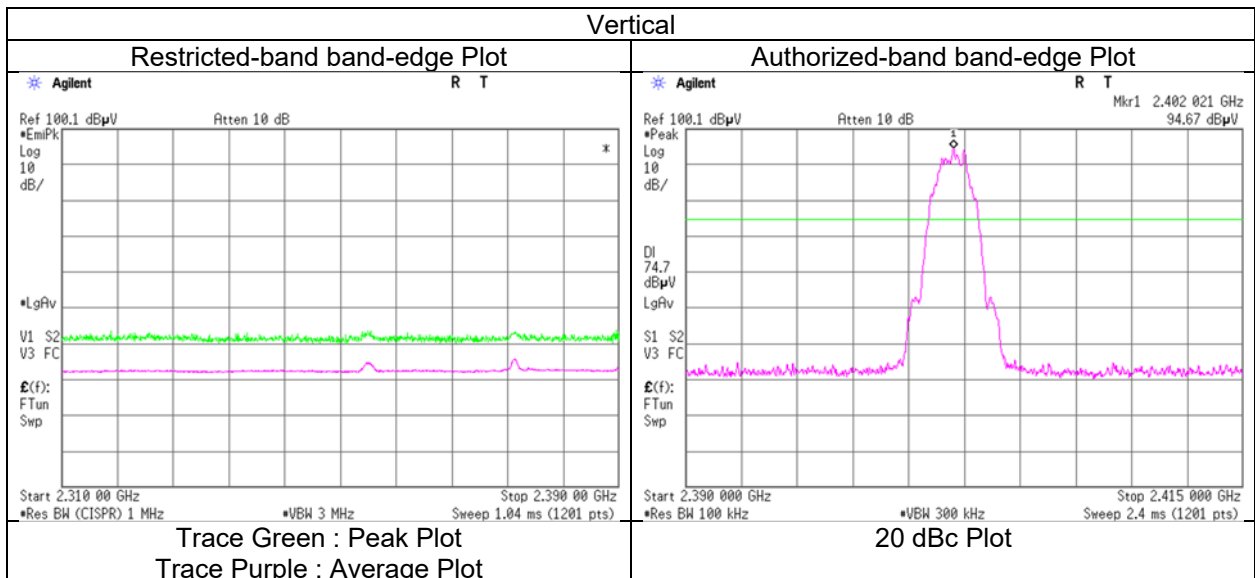
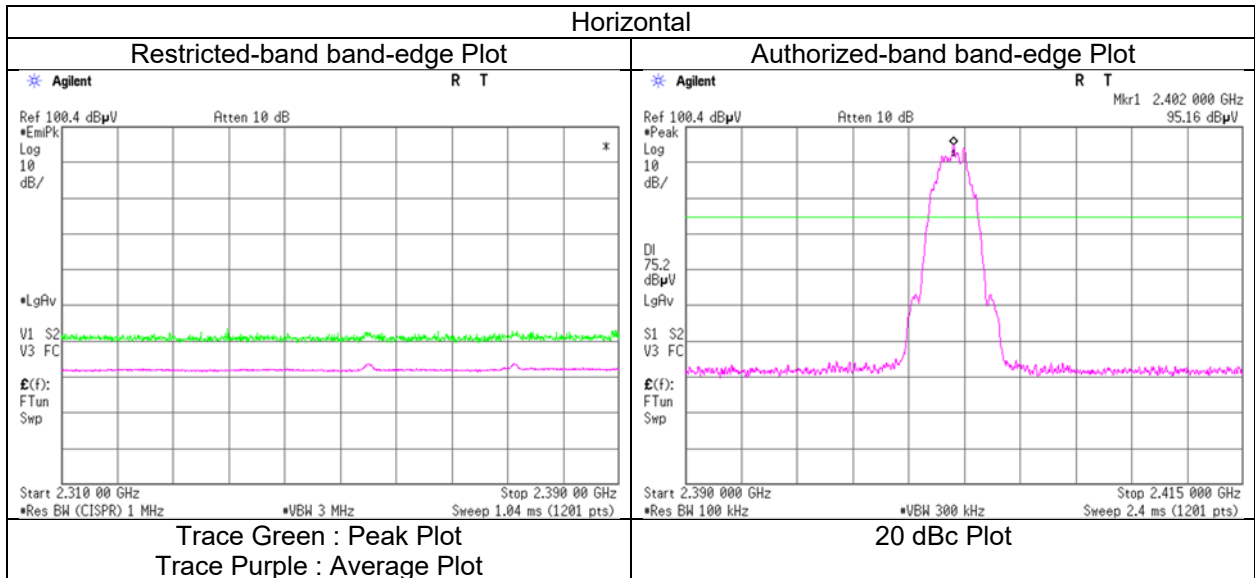
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 18 GHz)) - Gain(Amplifier)

Distance factor: 18 GHz - 26.5 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Mode	Tx BT LE 2M 2402 MHz + 11ax-20(OFDM) 5220 MHz				
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 6, 2026	SAC3	20 deg. C	41 % RH	Nachi Konegawa	1 GHz to 10 GHz

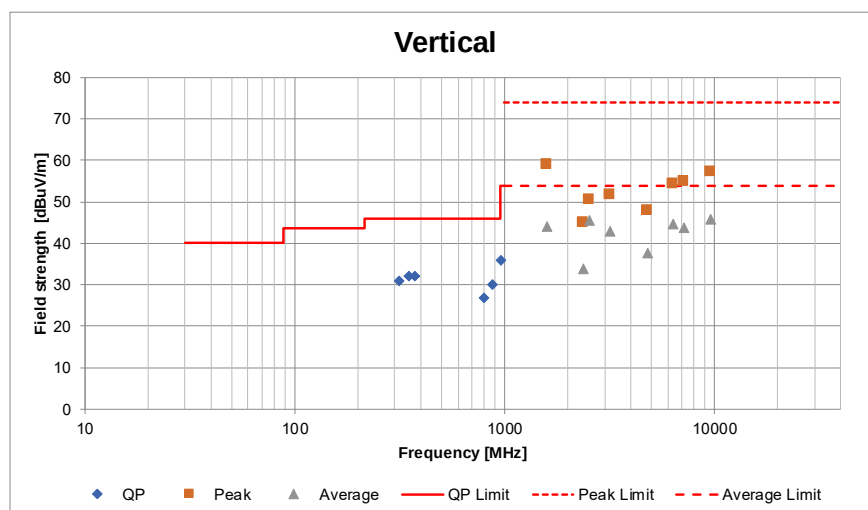
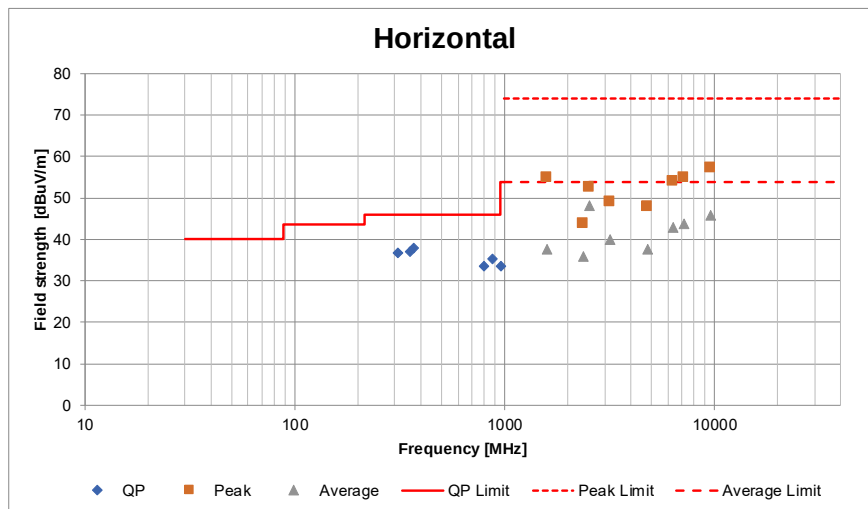


* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

Final result of restricted band edge and authorized band edge were shown in tabular data.

Radiated Spurious Emission (Plot data, Worst case mode for Maximum Conducted Output Power)

Mode	Tx BT LE 2M 2402 MHz				
Date	Test site	Temperature	Humidity	Engineer	Measurement Range
February 28, 2026	SAC2	24 deg. C	51 % RH	Tomoya Sone	1 GHz to 10 GHz
March 6, 2026	SAC3	20 deg. C	41 % RH	Nachi Konegawa	10 GHz to 18 GHz
March 11, 2026	SAC3	23 deg. C	30 % RH	Tomoya Sone	Above 18 GHz
March 4, 2026	SAC4	23 deg. C	40 % RH	Takafumi Noguchi	Below 1 GHz



*These plots data contains sufficient number to show the trend of characteristic features for EUT.

APPENDIX 2: Test Instruments

Test Equipment (1/2)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	141232	High Pass Filter 3.5-18.0GHz	UL-ISE	HPF SELECTOR	001	09/02/2025	12
RE	141267	Logperiodic Antenna (200-1000MHz)	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	9111B-192	09/12/2025	12
RE	141293	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCB	602	02/09/2026	12
RE	141323	Coaxial cable	UL-ISE	-	-	09/08/2025	12
RE	141397	Coaxial Cable	UL-ISE EMC	-	-	11/12/2025	12
RE	141424	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103+BBA9106	1915	10/21/2025	12
RE	141425	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103+BBA9106	VHA 91031302	08/14/2025	12
RE	141511	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	253	09/17/2025	12
RE	141512	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	254	10/20/2025	12
RE	141513	Horn Antenna 15-40GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9170	BBHA9170306	07/18/2025	12
RE	141532	DIGITAL HITESTER	HIOKI E. E. CORPORATION	3805	051201197	01/05/2026	12
RE	141542	Digital Tester	Fluke Corporation	FLUKE 26-3	78030611	08/01/2025	12
RE	141580	MicroWave System Amplifier	Keysight Technologies Inc	83017A	MY39500779	03/12/2026	12
RE	141582	Pre Amplifier	SONOMA INSTRUMENT	310	260834	02/06/2026	12
RE	141583	Pre Amplifier	SONOMA INSTRUMENT	310	260833	04/16/2026	12
RE	141855	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187750	11/14/2025	12
RE	141884	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY44020357	05/28/2026	12
RE	141903	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46186390	01/30/2026	12
RE	141951	EMI Test Receiver	Rohde & Schwarz	ESR26	101408	05/07/2025	12
RE	141978	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY46180899	05/28/2026	12
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	142008	AC3_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	07/09/2025	24
RE	142011	AC4_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	07/10/2025	24
RE	142013	AC3_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-10005	04/14/2025	24
RE	142183	Measure	KOMELON	KMC-36	-	10/20/2025	12
RE	142228	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	142230	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	142314	Attenuator	Pasternack Enterprises	PE7390-6	D/C 1504	06/24/2025	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	225532	High Pass Filter 8-24.5GHz	TSJ (Techno Science Japan)	SCHPF-8000/ T4125-O/O	1504C	11/04/2025	12
RE	237927	Broadband Amplifier	ERAVANT	SBB-0115033218-2F2F-E3	27554-01	07/02/2025	12
RE	244707	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202102	01/13/2026	12
RE	244709	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202103	01/13/2026	12
RE	244710	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202104	01/14/2026	12
RE	245787	Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	689	04/23/2026	12

Test Equipment (2/2)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
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	262629	Microwave Cable	Huber+Suhner	SF103/11PC3.5/ 11PC3.5/1000mm	800673	04/15/2026	12
RE	263275	Microwave Cable	Junkosha	MWX221- 05000DMSDMS+M WX221- 01000DMSDMS	2505S043+250 3S145	04/21/2026	12
RE	272098	DIGITAL MULTIMETER	HIOKI E. E. CORPORATION	DT4255	250902199	11/27/2025	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