

RADIO TEST REPORT

Test Report No. 15468119S-A-R1

Customer	CASIO COMPUTER CO., LTD.
Description of EUT	Watch
Model Number of EUT	GA-B010 (Bluetooth Module: CW5736 is contained.)
FCC ID	BBQS60W
Test Regulation	FCC Part 15 Subpart C
Test Result	Complied
Issue Date	July 7, 2025
Remarks	-

Representative Test EngineerYuta Shiba
Engineer**Approved By**Kazuya Noda
Leader

CERTIFICATE 1266.03

- ☐ 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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- The laboratory is not responsible for information provided by the customer which can impact the validity of the results.
- For test report(s) referred in this report, the latest version (including any revisions) is always referred.

REVISION HISTORY

Original Test Report No. 15468119S-A

This report is a revised version of 15468119S-A. 15468119S-A is replaced with this report.

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	15468119S-A	December 2, 2024	-
1	15468119S-A-R1	July 7, 2025	P10: *2) Deletion of “Conducted Emission test” P11 Addition of “It was measured with the settings below based on ANSI C63.10.” P11: IF Bandwidth Deletion of “Duty factor was added to the results.” Addition of “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.” P25: Reading Correction “-87.9” to “-86.4”, “-89.3” to “-88.2” P29: Cal Int Deletion of *1)

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	CASIO COMPUTER CO., LTD.
Address	2-1, Sakaecho 3 chome, Hamura-shi, Tokyo 205-8555 Japan
Telephone Number	+81-42-579-7282
Contact Person	Shuji Yamashita

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	Watch
Model Number	GA-B010 (Bluetooth Module: CW5736 is contained.)
Alternative Number	R070
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	October 30, 2024
Test Date	November 5 to November 7, 2024

2.2 Product Description

General Specification

Rating	Typical: DC 2.5 V, Min.: DC 1.9 V, Max.: DC 2.7 V
Operating temperature	-10 deg. C to 60 deg. C

Radio Specification

This report contains data provided by the customer which can impact the validity of results. UL Japan, Inc. is only responsible for the validity of results after the integration of the data provided by the customer. The data provided by the customer is marked "a)" in the table below.

Bluetooth (Low Energy)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	GFSK
Antenna Gain ^{a)}	2.5 dBi

SECTION 3: Test Specification, Procedures & Results

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

* Also the EUT complies with FCC Part 15 Subpart B.

3.2 Procedures and Results

Item	Test Procedure	Specification	Worst Margin	Results	Remarks
Conducted Emission	FCC: ANSI C63.10-2013 6. Standard test methods ISED: RSS-Gen 8.8	FCC: Section 15.207 ISED: RSS-Gen 8.8	-	N/A	*1)
6dB Bandwidth	FCC: KDB 558074 D01 15.247 Meas Guidance v05r02 ISED: -	FCC: Section 15.247(a)(2) ISED: RSS-247 5.2(a)	See data.	Complied	Conducted
Maximum Peak Output Power	FCC: KDB 558074 D01 15.247 Meas Guidance v05r02 ISED: RSS-Gen 6.12	FCC: Section 15.247(b)(3) ISED: RSS-247 5.4(d)		Complied	Conducted
Power Density	FCC: KDB 558074 D01 15.247 Meas Guidance v05r02 ISED: -	FCC: Section 15.247(e) ISED: RSS-247 5.2(b)		Complied	Conducted
Spurious Emission Restricted Band Edges	FCC: KDB 558074 D01 15.247 Meas Guidance v05r02 ISED: RSS-Gen 6.13	FCC: Section 15.247(d) ISED: RSS-247 5.5 RSS-Gen 8.9 RSS-Gen 8.10	15.2 dB 2484.024 MHz, Hori., AV Mode: Tx BT LE 2480 MHz	Complied	Conducted (below 30 MHz)/ Radiated (above 30 MHz) *2)

Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.

* In case any questions arise about test procedure, ANSI C63.10: 2013 is also referred.

*1) The test is not applicable since the EUT does not have AC mains.

*2) 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)

The EUT provides stable voltage constantly to the RF part regardless of input voltage. Instead of a new battery, DC power supply was used for the test. That does not affect the test result. Therefore, this EUT complies with the requirement.

FCC Part 15.203 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.

3.3 Addition to Standard

Item	Test Procedure	Specification	Worst Margin	Results	Remarks
99% Occupied Bandwidth	ISED: RSS-Gen 6.7	ISED: -	N/A	-	Conducted

Other than above, no addition, exclusion nor deviation has been made from the standard.

3.4 Uncertainty

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

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

Item	Frequency range	Uncertainty (+/-)
Radiated Emission (Measurement distance: 3 m)	9 kHz to 30 MHz	3.3 dB
	30 MHz to 200 MHz	4.9 dB
	200 MHz to 1 GHz	6.2 dB
	1 GHz to 6 GHz	4.7 dB
	6 GHz to 18 GHz	5.3 dB
	18 GHz to 40 GHz	5.5 dB
Radiated Emission (Measurement distance: 1 m)	1 GHz to 18 GHz	5.6 dB
	18 GHz to 40 GHz	5.8 dB

Antenna terminal test	Uncertainty (+/-)
Power Measurement above 1 GHz (Average Detector)	1.3 dB
Power Measurement above 1 GHz (Peak Detector)	1.8 dB
Spurious Emission (Conducted) below 1 GHz	0.91 dB
Conducted Emissions Power Density Measurement 1 GHz to 3 GHz	1.3 dB
Conducted Emissions Power Density Measurement 3 GHz to 18 GHz	2.5 dB
Spurious Emission (Conducted) 18 GHz to 26.5 GHz	2.8 dB
Spurious Emission (Conducted) 26.5 GHz to 40 GHz	2.6 dB
Bandwidth Measurement	0.012 %
Duty Cycle and Time Measurement	0.27 %
Temperature	2.2 deg.C.
Humidity	4.0 %
Voltage	0.74 %

3.5 Test Location

UL Japan, Inc. Shonan EMC Lab.

1-22-3, Megumigaoka, Hiratsuka-shi, Kanagawa-ken 259-1220 Japan

Telephone: +81-463-50-6400

A2LA Certificate Number: 1266.03

(FCC test firm registration number: 626366, ISED lab company number: 2973D / CAB identifier: JP0001)

Test room	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Maximum measurement distance
No.1 Semi-anechoic chamber (SAC1)	20.6 x 11.3 x 7.65	20.6 x 11.3	10 m
No.2 Semi-anechoic chamber (SAC2)	20.6 x 11.3 x 7.65	20.6 x 11.3	10 m
No.3 Semi-anechoic chamber (SAC3)	12.7 x 7.7 x 5.35	12.7 x 7.7	5 m
No.4 Semi-anechoic chamber (SAC4)	8.1 x 5.1 x 3.55	8.1 x 5.1	-
Wireless anechoic chamber 1 (WAC1)	9.5 x 6.0 x 5.4	9.5 x 6.0	3 m
Wireless anechoic chamber 2 (WAC2)	9.5 x 6.0 x 5.4	9.5 x 6.0	3 m
No.1 Shielded room	6.8 x 4.1 x 2.7	6.8 x 4.1	-
No.2 Shielded room	6.8 x 4.1 x 2.7	6.8 x 4.1	-
No.3 Shielded room	6.3 x 4.7 x 2.7	6.3 x 4.7	-
No.4 Shielded room	4.4 x 4.7 x 2.7	4.4 x 4.7	-
No.5 Shielded room	7.8 x 6.4 x 2.7	7.8 x 6.4	-
No.6 Shielded room	7.8 x 6.4 x 2.7	7.8 x 6.4	-
No.8 Shielded room	3.45 x 5.5 x 2.4	3.45 x 5.5	-
No.1 Measurement room	2.55 x 4.1 x 2.5	-	-
No.2 Measurement room	4.5 x 3.5 x 2.5	-	-
Wireless shielded room 1	3.0 x 4.5 x 2.7	3.0 x 4.5	-
Wireless shielded room 2	3.0 x 4.5 x 2.7	3.0 x 4.5	-

3.6 Test Data, Test Instruments, and Test Set Up

Refer to APPENDIX.

SECTION 4: Operation of EUT during testing

4.1 Operating Mode(s)

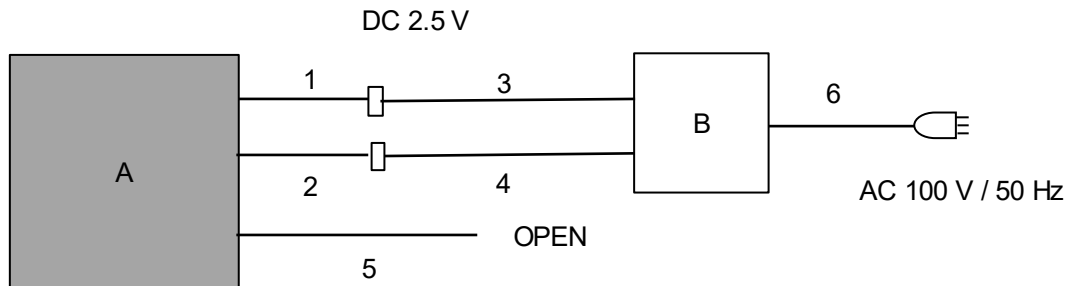
[BT LE]

Mode	Remarks*
Bluetooth Low Energy (BT LE)	Uncoded 1 M-PHY (1 M), Maximum Packet Size, PRBS9
*Power of the EUT was set by the software as follows; Power Setting: Fixed Software: BLE RF Test Version: 9.9 (Date: 2024.11.5, Storage location: EUT memory) *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 Frequency
Radiated Spurious Emission (Below 1 GHz) Conducted Spurious Emission	Tx BT LE 1 M-PHY *1)	2440 MHz
Radiated Spurious Emission (Above 1 GHz) Maximum Peak Output Power, Power Density, 6 dB Bandwidth, 99 % Occupied Bandwidth	Tx BT LE 1 M-PHY	2402 MHz 2440 MHz 2480 MHz
*1) Conducted Spurious Emission and 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.		

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	Watch	GA-B010	07 *1) 06 *2)	CASIO COMPUTER CO., LTD.	EUT
B	Power Supply (DC)	PAN35-10A	CY002947 *1) NA000955 *2)	KIKUSUI	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC (+)	0.12	Unshielded	Unshielded	*3)
2	DC (-)	0.13	Unshielded	Unshielded	*3)
3	DC (+)	2.00+0.40	Unshielded	Unshielded	-
4	DC (-)	2.00+0.40	Unshielded	Unshielded	-
5	Signal	0.11	Unshielded	Unshielded	*4)
6	AC	2.00	Unshielded	Unshielded	-

*1) Used for Antenna Terminal conducted test

*2) Used for Radiated Emission test

*3) Cable for test operation

*4) Cable is for system reset during the development, not used for the product.

SECTION 5: Radiated Spurious Emission

Test Procedure

It was measured based on "8.5 and 8.6 of KDB 558074 D01 15.247 Meas Guidance v05r02".

[For below 1 GHz]

EUT was placed on a urethane platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

[For above 1 GHz]

EUT was placed on a urethane 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.

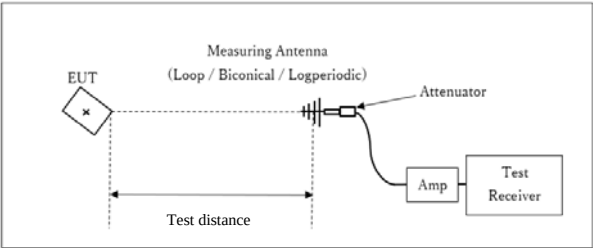
20 dBc was applied to the frequency over the limit of FCC 15.209 / Table 4 of RSS-Gen 8.9(ISED) and outside the restricted band of FCC15.205 / Table 6 of RSS-Gen 8.10 (ISED).

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

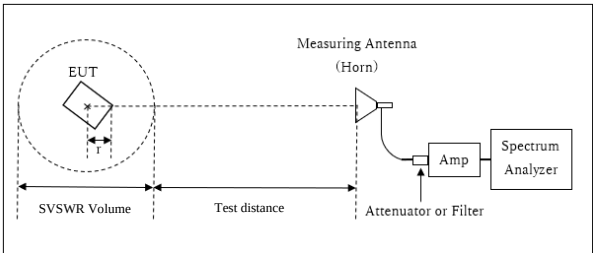
Below 1 GHz



x : Center of turn table

Test Distance: 3 m

1 GHz to 10 GHz

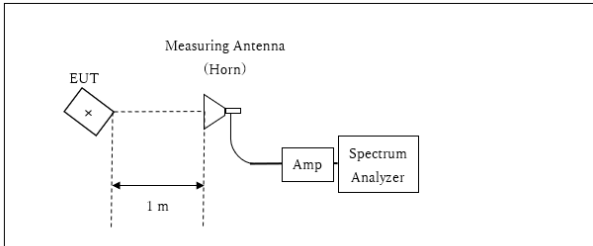


r : Radius of an outer periphery of EUT
x : Center of turn table

Distance Factor: $20 \times \log (3.97 \text{ m}^* / 3.0 \text{ m}) = 2.44 \text{ dB}$
*(Test Distance + SVSWR Volume / 2) - r = 3.97 m

SVSWR Volume: 2 m
(SVSWR Volume has been calibrated based on CISPR 16-1-4.)
r: 0.03 m

10 GHz to 26.5 GHz



x : Center of turn table

Distance Factor: $20 \times \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$
*Test Distance: 1 m

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

Antenna polarization	Carrier	Spurious (30 MHz - 1 GHz)	Spurious (1 GHz - 2.8 GHz)	Spurious (2.8 GHz - 10 GHz)	Spurious (10 GHz - 18 GHz)	Spurious (18 GHz - 26.5 GHz)
Horizontal	Y	X	Y	Y	X	X
Vertical	X	X	X	X	X	X

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

SECTION 6: Antenna Terminal Conducted Tests

Test Procedure

The tests were made with below setting connected to the antenna port.

Test	Span	RBW	VBW	Sweep time	Detector	Trace	Instrument Used
6 dB Bandwidth	3 MHz	100 kHz	300 kHz	Auto	Peak	Max Hold	Spectrum Analyzer
99 % Occupied Bandwidth *1)	Enough width to display emission skirts	1 to 5 % of OBW	Three times of RBW	Auto	Peak	Max Hold	Spectrum Analyzer
Maximum Peak Output Power	-	-	-	Auto	Peak/ Average *2)	-	Power Meter (Sensor: 50 MHz BW)
Peak Power Density	1.5 times the 6dB Bandwidth	3 kHz	9.1 kHz	Auto	Peak	Max Hold	Spectrum Analyzer *3)
Conducted Spurious Emission *4) *5)	9 kHz to 150 kHz 150 kHz to 30 MHz	200 Hz 10 kHz	620 Hz 30 kHz	Auto	Peak	Max Hold	Spectrum Analyzer

*1) Peak hold was applied as Worst-case measurement.

*2) Reference data

*3) Section 11.10.2 Method PKPSD (peak PSD) of "ANSI C63.10-2013".

*4) In the frequency range below 30MHz, RBW was narrowed to separate the noise contents.

Then, wide-band noise near the limit was checked separately, however the noise was low enough as shown in the chart.

(9 kHz - 150 kHz: RBW = 200 Hz, 150 kHz - 30 MHz: RBW = 10 kHz)

*5) The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ohms. For example, the measurement at frequency 9 kHz resulted in a level of 45.5 dBuV/m, which is equivalent to $45.5 - 51.5 = -6.0$ dBuA/m, which has the same margin, 3 dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

Test results are rounded off and limit are rounded down, so some differences might be observed.
The equipment and cables were not used for factor 0 dB of the data sheets.

Test Data : APPENDIX
Test Result : Pass

APPENDIX 1: Test Data

99 % Occupied Bandwidth and 6 dB Bandwidth

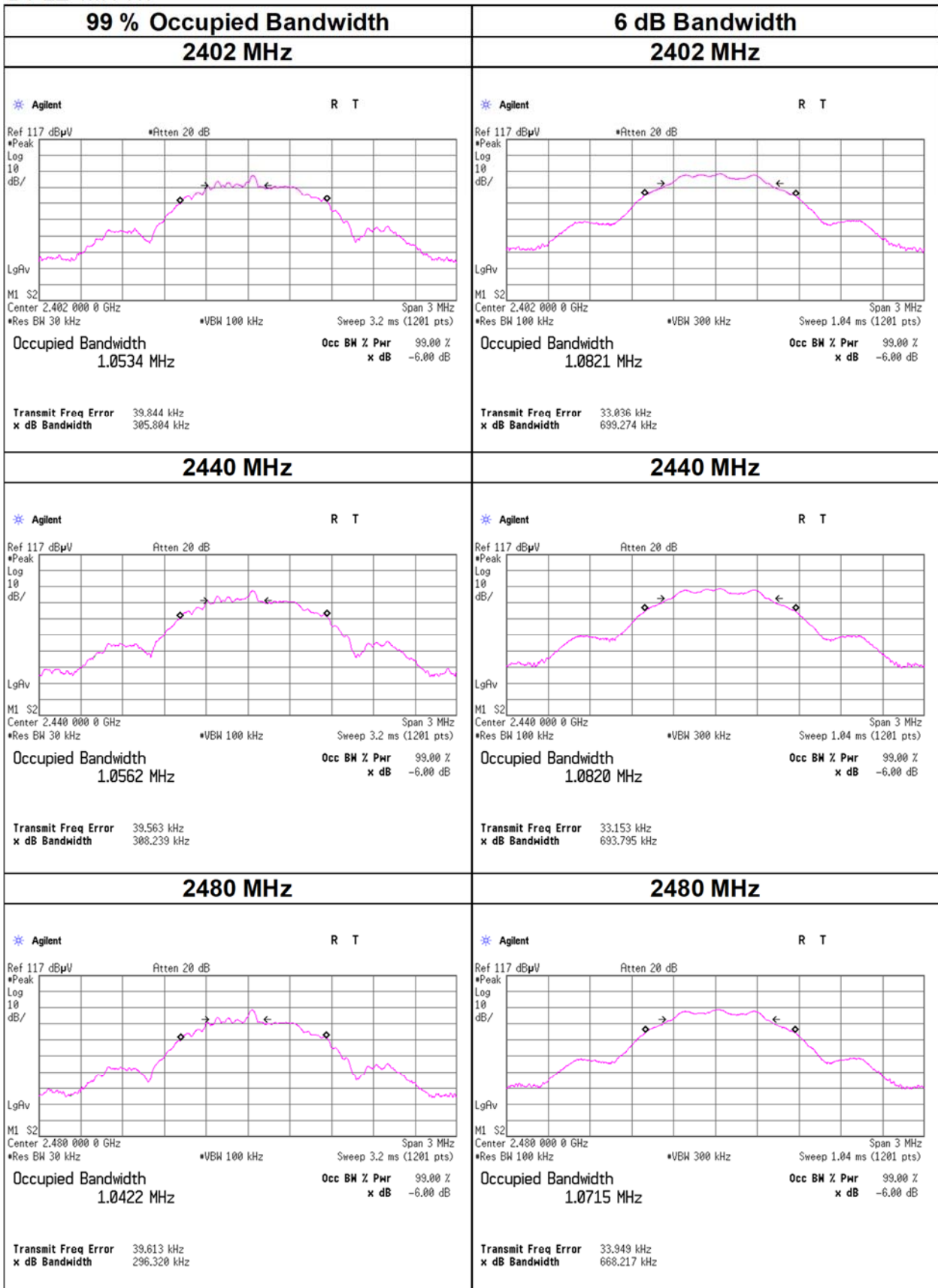
Test place Shonan EMC Lab. No.3 Shielded Room
Date November 7, 2024
Temperature / Humidity 20 deg. C / 35 % RH
Engineer Yuta Shiba
Mode Tx

BT LE 1M-PHY

Frequency [MHz]	99 % Occupied Bandwidth [kHz]	6 dB Bandwidth [MHz]	Limit for 6 dB Bandwidth [MHz]
2402	1053.4	0.699	> 0.5000
2440	1056.2	0.694	> 0.5000
2480	1042.2	0.668	> 0.5000

99 % Occupied Bandwidth and 6 dB Bandwidth

BT LE 1M-PHY



Maximum Peak Output Power

Test place Shonan EMC Lab. No.5 Shielded Room
Date November 5, 2024
Temperature / Humidity 24 deg. C / 48 % RH
Engineer Miku Ikudome
Mode Tx

BT LE 1M-PHY
Maximum peak output power

Freq.	Reading	Cable Loss	Atten. Loss	Conducted Power						e.i.r.p. for RSS-247					
				Result		Limit		Margin	Antenna Gain	Result		Limit		Margin	
				[dBm]	[mW]	[dBm]	[mW]			[dBm]	[mW]	[dBm]	[mW]		
2402	-11.18	0.88	9.63	-0.67	0.86	30.00	1000	30.67	2.50	1.83	1.52	36.02	4000	34.19	
2440	-11.19	0.89	9.64	-0.66	0.86	30.00	1000	30.66	2.50	1.84	1.53	36.02	4000	34.18	
2480	-11.28	0.89	9.64	-0.75	0.84	30.00	1000	30.75	2.50	1.75	1.50	36.02	4000	34.27	

Sample Calculation:
Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss
e.i.r.p. Result = Conducted Power Result + Antenna Gain

Average Output Power
(Reference data for RF Exposure)

Test place	Shonan EMC Lab. No.5 Shielded Room
Date	November 5, 2024
Temperature / Humidity	24 deg. C / 48 % RH
Engineer	Miku Ikudome
Mode	Tx

BT LE 1M-PHY

Average power

Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Time average)		Duty factor [dB]	Result (Burst power average)	
				[dBm]	[mW]		[dBm]	[mW]
2402	-13.12	0.88	9.63	-2.61	0.55	1.61	-1.00	0.79
2440	-13.14	0.89	9.64	-2.61	0.55	1.61	-1.00	0.79
2480	-13.22	0.89	9.64	-2.69	0.54	1.61	-1.08	0.78

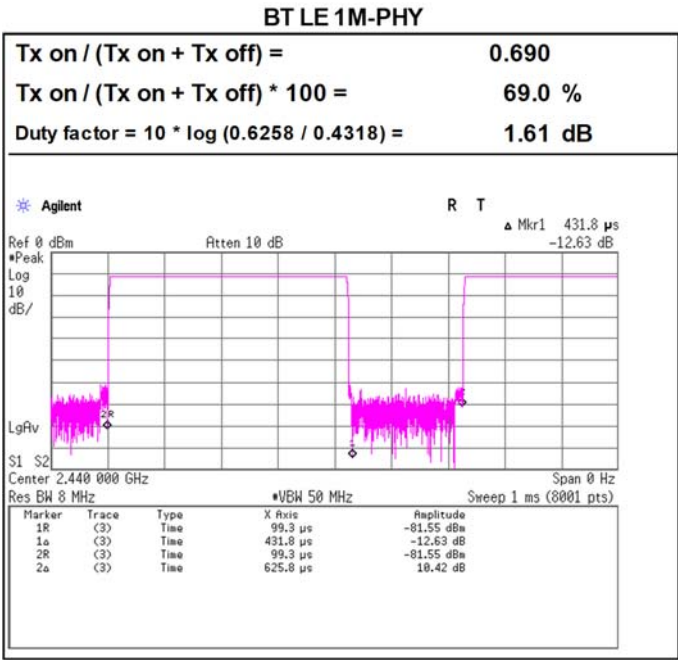
Sample Calculation:

Result (Time average) = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

Result (Burst power average) = Result (Time average) + Duty factor

Burst rate confirmation

Test place Shonan EMC Lab. No.5 Shielded Room
Date November 5, 2024
Temperature / Humidity 24 deg. C / 48 % RH
Engineer Miku Ikudome
Mode Tx



Radiated Spurious Emission

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC 1	WAC 1
Date	November 5, 2024	November 6, 2024
Temperature / Humidity	23 deg. C / 57 % RH	23 deg. C / 57 % RH
Engineer	Yohsuke Matsuzawa	Yohsuke Matsuzawa
	(1 GHz to 10 GHz)	(10 GHz to 26.5 GHz)
Mode	Tx BT LE 2402 MHz	

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg]	Remark
Hori.	2390.000	PK	47.26	27.85	-28.23	-	2.44	49.32	73.9	24.5	307	43	-
Hori.	4804.000	PK	46.71	31.97	-35.72	-	2.44	45.40	73.9	28.5	222	23	-
Hori.	7206.000	PK	46.31	36.23	-34.11	-	2.44	50.87	73.9	23.0	150	0	Floor noise
Hori.	9608.000	PK	45.97	37.93	-31.67	-	2.44	54.67	73.9	19.2	150	0	Floor noise
Hori.	7206.000	AV	35.73	36.23	-34.11	-	2.44	40.29	53.9	13.6	150	0	Floor noise
Hori.	9608.000	AV	34.65	37.93	-31.67	-	2.44	43.35	53.9	10.5	150	0	Floor noise
Vert.	2390.000	PK	46.88	27.85	-28.23	-	2.44	48.94	73.9	24.9	190	13	-
Vert.	4804.000	PK	47.55	31.97	-35.72	-	2.44	46.24	73.9	27.6	177	22	-
Vert.	7206.000	PK	45.47	36.23	-34.11	-	2.44	50.03	73.9	23.8	150	0	Floor noise
Vert.	9608.000	PK	45.60	37.93	-31.67	-	2.44	54.30	73.9	19.6	150	0	Floor noise
Vert.	7206.000	AV	35.27	36.23	-34.11	-	2.44	39.83	53.9	14.0	150	0	Floor noise
Vert.	9608.000	AV	34.67	37.93	-31.67	-	2.44	43.37	53.9	10.5	150	0	Floor noise

1 GHz - 18 GHz: Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Distance factor : 1 GHz - 10 GHz : $20\log(3.97\text{ m} / 3.0\text{ m}) = 2.44\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Average measurement value with duty factor

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2390.000	AV	34.28	27.85	-28.23	-	1.61	2.44	37.95	53.9	15.9	*1)
Hori.	4804.000	AV	35.75	31.97	-35.72	-	1.61	2.44	36.05	53.9	17.8	-
Vert.	2390.000	AV	34.36	27.85	-28.23	-	1.61	2.44	38.03	53.9	15.8	*1)
Vert.	4804.000	AV	36.55	31.97	-35.72	-	1.61	2.44	36.85	53.9	17.0	-

1 GHz - 18 GHz: Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Distance factor : 1 GHz - 10 GHz : $20\log(3.97\text{ m} / 3.0\text{ m}) = 2.44\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Duty factor refer to "Burst rate confirmation" sheet.

*1) Not out of band emission (Leakage Power)

20 dBc Data Sheet (RBW 100 kHz, VBW 300 kHz)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2402.000	PK	82.91	27.89	-28.22	-	2.44	85.02	-	-	Carrier
Hori.	2399.895	PK	45.18	27.89	-28.22	-	2.44	47.29	65.0	17.7	-
Hori.	2400.000	PK	42.81	27.89	-28.22	-	2.44	44.92	65.0	20.0	-
Hori.	2400.239	PK	44.91	27.89	-28.22	-	2.44	47.02	65.0	17.9	-
Vert.	2402.000	PK	81.23	27.89	-28.22	-	2.44	83.34	-	-	Carrier
Vert.	2399.886	PK	44.39	27.89	-28.22	-	2.44	46.50	63.3	16.8	-
Vert.	2400.000	PK	42.00	27.89	-28.22	-	2.44	44.11	63.3	19.1	-
Vert.	2400.235	PK	44.56	27.89	-28.22	-	2.44	46.67	63.3	16.6	-

1 GHz - 18 GHz: Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor
Distance factor : 1 GHz - 10 GHz : $20\log(3.97\text{ m} / 3.0\text{ m}) = 2.44\text{ dB}$
10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Radiated Spurious Emission
(Reference Plot for band-edge)

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Shonan EMC Lab.

WAC 1

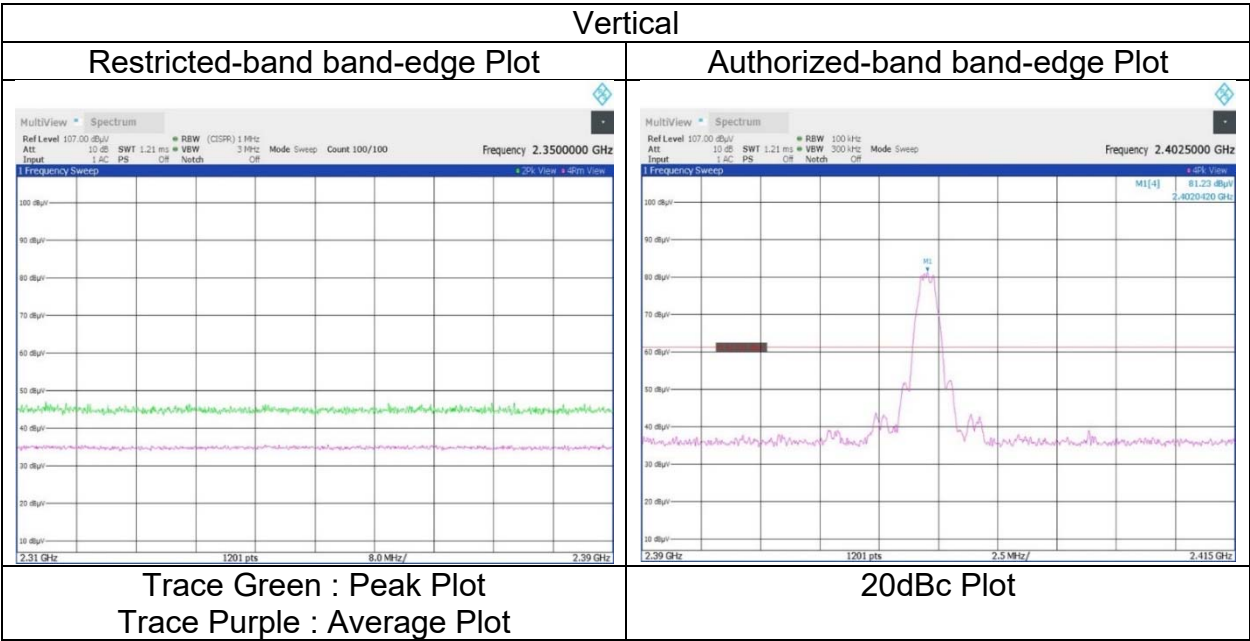
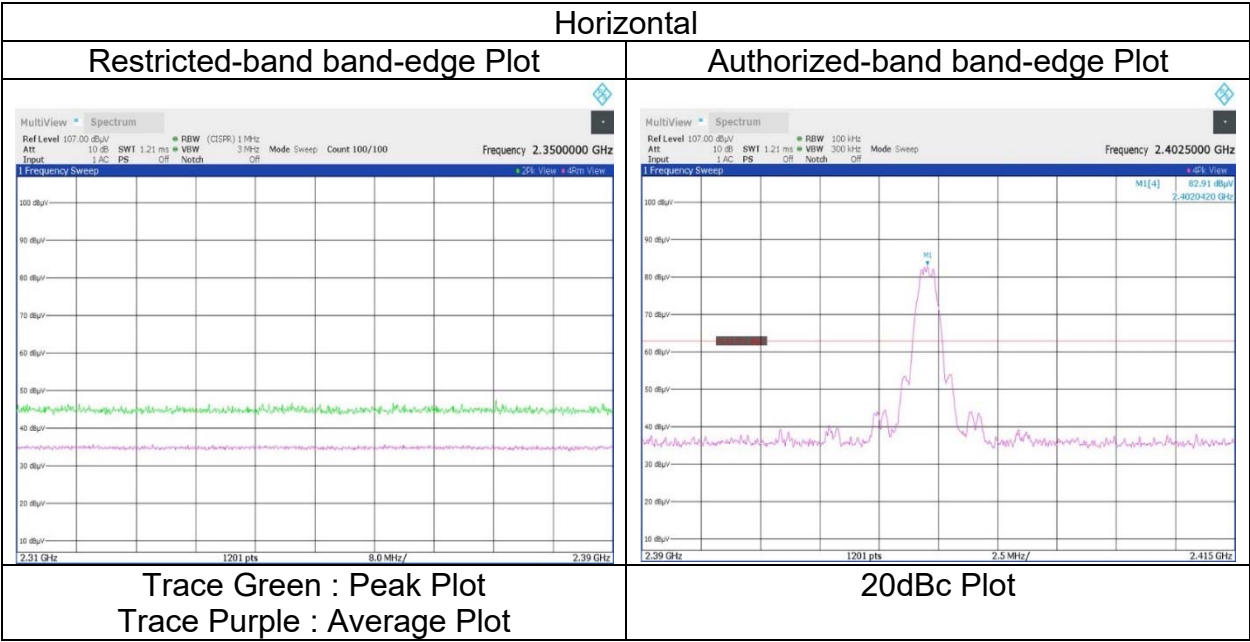
November 5, 2024

23 deg. C / 57 % RH

Yohsuke Matsuzawa

(1 GHz to 10 GHz)

Tx BT LE 2402 MHz



* 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

Test place	Shonan EMC Lab.	WAC 1
Semi Anechoic Chamber	WAC 1	WAC 1
Date	November 5, 2024	November 6, 2024
Temperature / Humidity	23 deg. C / 57 % RH	23 deg. C / 57 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 10 GHz)	Yohsuke Matsuzawa (30 MHz to 1 GHz) (10 GHz to 26.5 GHz)
Mode	Tx BT LE 2440 MHz	

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg]	Remark
Hori.	34.971	QP	24.80	12.48	6.27	32.81	0.00	10.74	40.0	29.2	155	80	-
Hori.	193.513	QP	23.50	14.14	7.14	33.13	0.00	11.65	43.5	31.8	191	1	-
Hori.	611.725	QP	23.80	19.39	8.27	32.06	0.00	19.40	46.0	26.6	100	250	-
Hori.	885.980	QP	22.30	21.97	8.83	30.81	0.00	22.29	46.0	23.7	153	181	-
Hori.	4880.000	PK	47.65	32.33	-35.79	-	2.44	46.63	73.9	27.2	142	25	-
Hori.	7320.000	PK	46.86	36.62	-33.90	-	2.44	52.02	73.9	21.8	150	0	Floor noise
Hori.	9760.000	PK	45.22	37.93	-31.50	-	2.44	54.09	73.9	19.8	150	0	Floor noise
Hori.	7320.000	AV	34.76	36.62	-33.90	-	2.44	39.92	53.9	13.9	150	0	Floor noise
Hori.	9760.000	AV	33.88	37.93	-31.50	-	2.44	42.75	53.9	11.1	150	0	Floor noise
Vert.	35.465	QP	25.50	12.38	6.27	32.82	0.00	11.33	40.0	28.6	100	174	-
Vert.	190.111	QP	23.10	13.94	7.18	33.14	0.00	11.08	43.5	32.4	100	25	-
Vert.	613.830	QP	23.80	19.41	8.27	32.05	0.00	19.43	46.0	26.5	100	1	-
Vert.	880.800	QP	22.50	21.97	8.82	30.85	0.00	22.44	46.0	23.5	100	216	-
Vert.	4880.000	PK	47.55	32.33	-35.79	-	2.44	46.53	73.9	27.3	189	30	-
Vert.	7320.000	PK	46.17	36.62	-33.90	-	2.44	51.33	73.9	22.5	150	0	Floor noise
Vert.	9760.000	PK	45.18	37.93	-31.50	-	2.44	54.05	73.9	19.8	150	0	Floor noise
Vert.	7320.000	AV	34.81	36.62	-33.90	-	2.44	39.97	53.9	13.9	150	0	Floor noise
Vert.	9760.000	AV	34.18	37.93	-31.50	-	2.44	43.05	53.9	10.8	150	0	Floor noise

1 GHz - 18 GHz: Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands: Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Distance factor : 1 GHz - 10 GHz : $20\log(3.97\text{ m} / 3.0\text{ m}) = 2.44\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Average measurement value with duty factor

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	4880.000	AV	36.83	32.33	-35.79	-	1.61	2.44	37.42	53.9	16.4	-
Vert.	4880.000	AV	36.37	32.33	-35.79	-	1.61	2.44	36.96	53.9	16.9	-

1 GHz - 18 GHz: Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Distance factor : 1 GHz - 10 GHz : $20\log(3.97\text{ m} / 3.0\text{ m}) = 2.44\text{ dB}$

10 GHz - 40 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

Duty factor refer to "Burst rate confirmation" sheet.

Radiated Spurious Emission

Test place	Shonan EMC Lab.	WAC 1
Semi Anechoic Chamber	WAC 1	WAC 1
Date	November 5, 2024	November 6, 2024
Temperature / Humidity	23 deg. C / 57 % RH	23 deg. C / 57 % RH
Engineer	Yohsuke Matsuzawa	Yohsuke Matsuzawa
	(1 GHz to 10 GHz)	(10 GHz to 26.5 GHz)
Mode	Tx BT LE 2480 MHz	

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg]	Remark
Hori.	2483.500	PK	46.95	27.96	-28.18	-	2.44	49.17	73.9	24.7	119	359	-
Hori.	2484.024	PK	48.85	27.96	-28.18	-	2.44	51.07	73.9	22.8	119	359	-
Hori.	4960.000	PK	48.37	32.62	-35.88	-	2.44	47.55	73.9	26.3	220	36	-
Hori.	7440.000	PK	45.87	36.69	-33.68	-	2.44	51.32	73.9	22.5	150	0	Floor noise
Hori.	9920.000	PK	45.68	37.93	-31.31	-	2.44	54.74	73.9	19.1	150	0	Floor noise
Hori.	7440.000	AV	35.15	36.69	-33.68	-	2.44	40.60	53.9	13.3	150	0	Floor noise
Hori.	9920.000	AV	34.82	37.93	-31.31	-	2.44	43.88	53.9	10.0	150	0	Floor noise
Vert.	2483.500	PK	46.86	27.96	-28.18	-	2.44	49.08	73.9	24.8	107	332	-
Vert.	2483.900	PK	49.71	27.96	-28.18	-	2.44	51.93	73.9	21.9	107	332	-
Vert.	4960.000	PK	48.38	32.62	-35.88	-	2.44	47.56	73.9	26.3	107	17	-
Vert.	7440.000	PK	46.50	36.69	-33.68	-	2.44	51.95	73.9	21.9	150	0	Floor noise
Vert.	9920.000	PK	45.86	37.93	-31.31	-	2.44	54.92	73.9	18.9	150	0	Floor noise
Vert.	7440.000	AV	35.73	36.69	-33.68	-	2.44	41.18	53.9	12.7	150	0	Floor noise
Vert.	9920.000	AV	34.43	37.93	-31.31	-	2.44	43.49	53.9	10.4	150	0	Floor noise

1 GHz - 18 GHz: Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Distance factor : 1 GHz - 10 GHz : 20log (3.97 m / 3.0 m) = 2.44 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Average measurement value with duty factor

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2483.500	AV	34.21	27.96	-28.18	-	1.61	2.44	38.04	53.9	15.8	*1)
Hori.	2484.024	AV	34.85	27.96	-28.18	-	1.61	2.44	38.68	53.9	15.2	-
Hori.	4960.000	AV	37.35	32.62	-35.88	-	1.61	2.44	38.14	53.9	15.7	-
Vert.	2483.500	AV	34.39	27.96	-28.18	-	1.61	2.44	38.22	53.9	15.6	*1)
Vert.	2483.900	AV	34.83	27.96	-28.18	-	1.61	2.44	38.66	53.9	15.2	-
Vert.	4960.000	AV	37.78	32.62	-35.88	-	1.61	2.44	38.57	53.9	15.3	-

1 GHz - 18 GHz: Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Distance factor : 1 GHz - 10 GHz : 20log (3.97 m / 3.0 m) = 2.44 dB

10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Duty factor refer to "Burst rate confirmation" sheet.

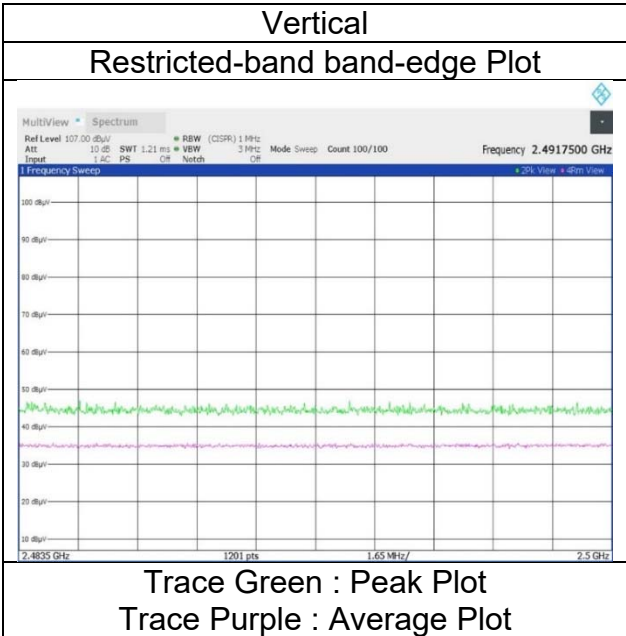
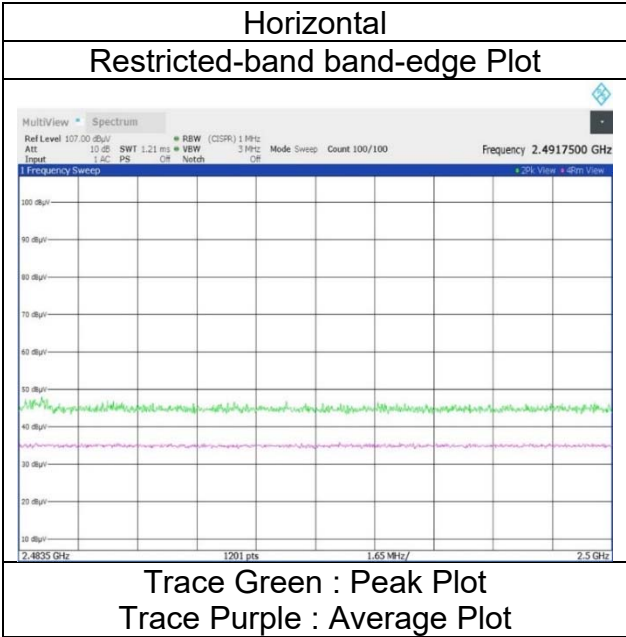
*1) Not out of band emission (Leakage Power)

Radiated Spurious Emission
(Reference Plot for band-edge)

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

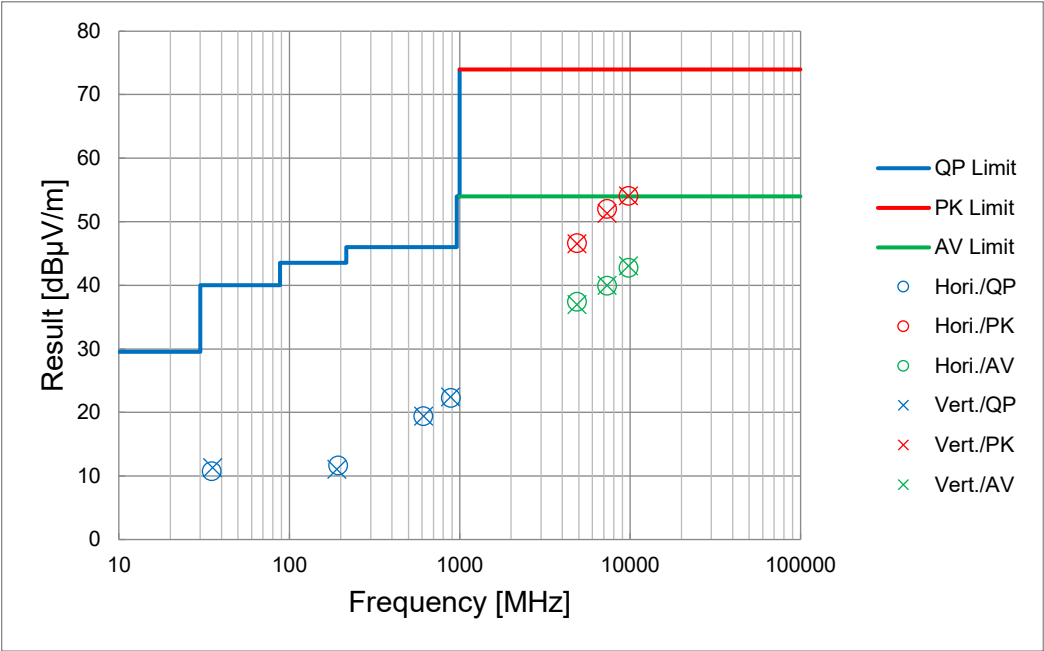
Shonan EMC Lab.
WAC 1
November 5, 2024
23 deg. C / 57 % RH
Yohsuke Matsuzawa
(1 GHz to 10 GHz)
Tx BT LE 2480 MHz



* 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
(Plot data, Worst case mode for Maximum Peak Output Power)

Test place	Shonan EMC Lab.	
Semi Anechoic Chamber	WAC 1	WAC 1
Date	November 5, 2024	November 6, 2024
Temperature / Humidity	23 deg. C / 57 % RH	23 deg. C / 57 % RH
Engineer	Yohsuke Matsuzawa (1 GHz to 10 GHz)	Yohsuke Matsuzawa (30 MHz to 1 GHz) (10 GHz to 26.5 GHz)
Mode	Tx BT LE 2440 MHz	



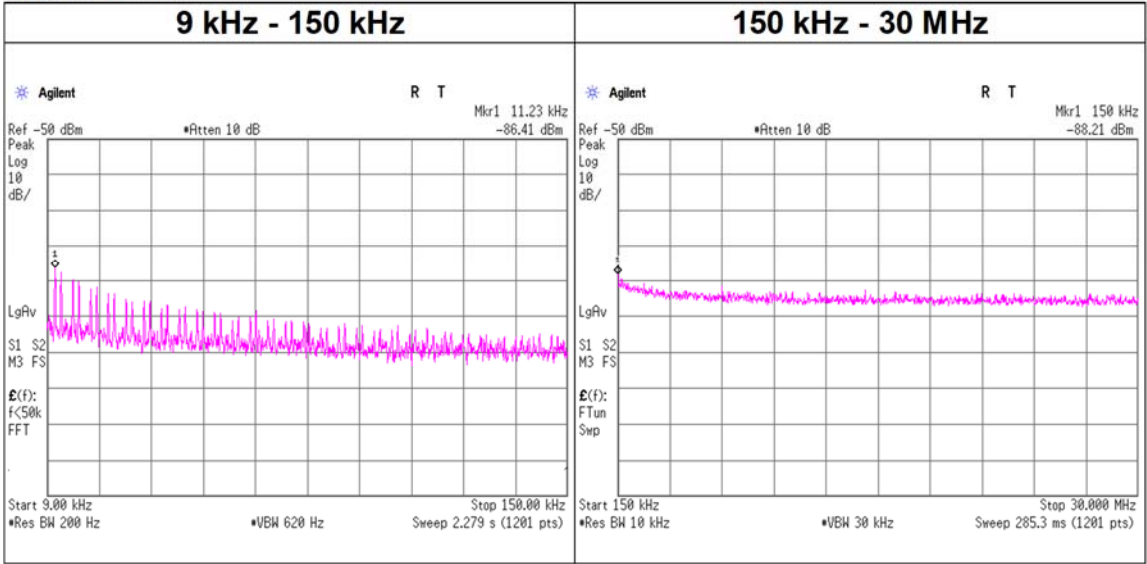
*These plots data contain sufficient number to show the trend of characteristic features for EUT.

Conducted Spurious Emission

Test place
Date
Temperature / Humidity
Engineer
Mode

Shonan EMC Lab. No.3 Shielded Room
November 7, 2024
20 deg. C / 35 % RH
Yuta Shiba
Tx

BT LE 1M-PHY
Tx, 2440 MHz



Frequency	Reading	Cable Loss	Attenuator Loss	Antenna Gain	N (Number of Output)	EIRP	Distance	Ground bounce	E (field strength)	Limit	Margin	Remark
[kHz]	[dBm]	[dB]	[dB]	[dBi]		[dBm]	[m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
11.23	-86.4	0.5	9.5	2.5	1.0	-73.9	300	6.0	-12.6	46.5	59.1	-
150.00	-88.2	0.5	9.5	2.5	1.0	-75.7	300	6.0	-14.4	24.0	38.4	-

$E \text{ [dBuV/m]} = \text{EIRP [dBm]} - 20 \log (\text{Distance [m]}) + \text{Ground bounce [dB]} + 104.8 \text{ [dBuV/m]}$
 $\text{EIRP [dBm]} = \text{Reading [dBm]} + \text{Cable loss [dB]} + \text{Attenuator Loss [dB]} + \text{Antenna gain [dBi]} + 10 * \log (N)$
N: Number of output

Power Density

Test place	Shonan EMC Lab. No.3 Shielded Room
Date	November 7, 2024
Temperature / Humidity	20 deg. C / 35 % RH
Engineer	Yuta Shiba
Mode	Tx

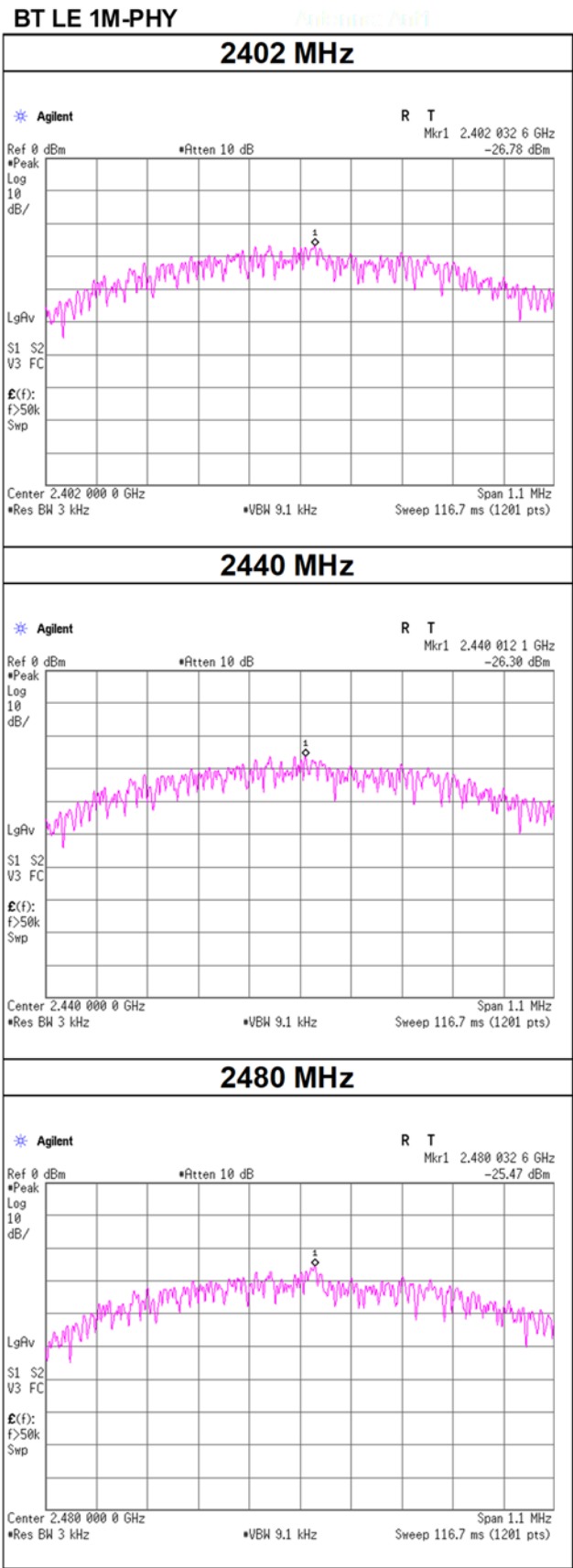
BT LE 1M-PHY

Frequency	Measured Frequency	Reading	Cable Loss	Atten. Loss	Result	Limit	Margin
[MHz]	[MHz]	[dBm/3 kHz]	[dB]	[dB]	[dBm/3 kHz]	[dBm/3 kHz]	[dB]
2402	2402.033	-26.78	0.88	9.63	-16.27	8.00	24.27
2440	2440.012	-26.30	0.89	9.64	-15.77	8.00	23.77
2480	2480.033	-25.47	0.89	9.64	-14.94	8.00	22.94

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

Power Density



APPENDIX 2: Test Instruments

Test Equipment [1/2]

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	145132	Attenuator	Weinschel Corp.	54A-10	W5692	2024/10/10	12
AT	145174	Coaxial Cable	Suhner	SUCOFLEX 102	31595/2	2024/03/07	12
AT	145801	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY48250152	2024/08/29	12
AT	146210	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997823	2024/09/24	12
AT	146212	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997828	2024/09/24	12
AT	146267	Power Meter	Anritsu Corporation	ML2495A	850009	2024/05/14	12
AT	146309	Power sensor	Anritsu Corporation	MA2411B	917063	2024/05/14	12
AT	175822	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2024/08/11	12
AT	191840	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2024/08/12	12
AT	235604	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY45300743	2024/05/23	12
RE	145007	Pre Amplifier	Toyo Corporation	HAP18-26W	19	2024/08/21	12
RE	145512	Horn Antenna	ETS-Lindgren	3160-09	00094868	2024/06/20	12
RE	145527	Logperiodic Antenna	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	193	2024/04/10	12
RE	170932	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3(RE,CE,ME,PE)	Ver 3.1.0546	-	-
RE	199784	Attenuator	JFW	50HF-006N	-	2024/06/14	12
RE	207280	Tape Measure	ASKUL	-	-	-	-
RE	235267	Test Receiver	Rohde & Schwarz	ESW44	103018	2024/03/05	12
RE	235639	DIGITAL MULTIMETER	HIOKI E.E. CORPORATION	DT4261	230313156	2024/05/29	12
RE	235735	Thermo-Hygrometer	CUSTOM. Inc	CTH-230	-	2024/04/28	12
RE	236212	Semi-Anechoic Chamber	TDK	SWAC-01(NSA)	1	2024/05/09	12
RE	236616	Semi-Anechoic Chamber	TDK	SWAC-01(SVSWR)	1	2024/06/04	12
RE	236686	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	787	2024/04/19	12
RE	236708	Coaxial Cable	Hayashi-Repic co., Ltd.	NMS079B-GL310C-SMS117B-2m	47256-02-03	2024/05/09	12
RE	236710	Coaxial Cable	Hayashi-Repic co., Ltd.	KMS020B-GL140sE-KMS020B-7.0m	47256-03-01	2024/05/09	12
RE	236723	Coaxial Cable	Hayashi-Repic co., Ltd.	SF106(HUBER+SUHNER)/LMR400UF/GL310C/GL310C	2000429/47753-1/47256-01-03/47256-01-01	2024/05/09	12
RE	236769	Horn Antenna	AINFO Inc.	LB-8180-NF	2030013000111	2024/04/19	12
RE	236966	Pre Amplifier	TSJ (Techno Science Japan)	MLA-9K01-L01	23050009	2024/06/14	12

Test Equipment [2/2]

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	237784	RF RELAY MATRIX with preamplifier	TSJ (Techno Science Japan)	RFM-E221261R	07795	2023/11/01	12
RE	239643	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	2306S021	2024/08/20	12
RE	239786	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHBB 9124+BBA9106	01895	2024/08/10	12
RE	243209	Coaxial Cable	Hayashi-Repic co., Ltd.	SMS13-13A26-NFS13-1.0m	49190-01-01	2023/12/20	12
RE	243687	Coaxial Cable	Hayashi-Repic co., Ltd.	NMS079B-GL310C-NMS079B-6.0m	49373-01-01	2023/12/28	12
RE	243689	Coaxial Cable	Huber+Suhner	GL310C(Hayashi-Repic)/SF106/SF106	49373-01-01/2000781/2001160	2023/12/28	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:

AT: Antenna Terminal Conducted test

RE: Radiated Emission