

RADIO TEST REPORT

Test Report No. 16263533M-A-R1

Customer	SMK CORPORATION
Description of EUT	Rear Remote Controller
Model Number of EUT	AT2603
FCC ID	GT3SCI03
Test Regulation	FCC Part 15 Subpart C
Test Result	Complied
Issue Date	June 29, 2026
Remarks	-

Representative Test EngineerHiromitsu Tanabe
Engineer**Approved By**Kazuhiro Ando
Engineer

CERTIFICATE 1266.01

- ☐ 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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- For any test report referred in this report, the latest version (including any revisions) is always referred to.
- 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)	16263533M-A	June 18, 2026	-
1	16263533M-A-R1	June 29, 2026	SECTION 5, Figure 1; - Correction of the typo of the Test Distance in the calculation for 1 GHz to 10 GHz: From "4.44 m" to "3.0 m"

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 LE	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	SMK CORPORATION
Address	5-5 Togoshi 6-chome, Shinagawa-ku, Tokyo, 142-8511 Japan
Telephone Number	+81-3-3785-1111
Contact Person	Ryo Sasaki

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	Rear Remote Controller
Model Number	AT2603
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	March 24, 2026
Test Date	March 26, 2026

2.2 Product Description

General Specification

Rating	DC 3.0 V, 2 Size AAA Batteries
Operating temperature	-30 deg. C to +65 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 LE

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	GFSK
Antenna Gain ^{a)}	0.81 dBi

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

3.3 Summary of Test Results

Item	Specification	Results	Remarks
Conducted Emission	FCC: Section 15.207 ISED: RSS-Gen section 8.8	N/A	*1)
6 dB Bandwidth	FCC: Section 15.247(a)(2) ISED: RSS-247 section 6.3.1(a)	Complied	Conducted
Maximum Peak Output Power	FCC: Section 15.247(b)(3) ISED: RSS-247 section 6.3.2	Complied	Conducted
Power Density	FCC: Section 15.247(e) ISED: RSS-247 section 6.3.1(b)	Complied	Conducted
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	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. *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)

This EUT provides the stable voltage constantly to RF Part regardless of input voltage.
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.

3.4 Addition to Standard

Item	Specification	Results	Remarks
99% Occupied Bandwidth	ISED: -	-	Conducted

Other than above, 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	Calculate Uncertainty (+/-)
3 m	9 kHz to 30 MHz	3.3 dB
	30 MHz to 200 MHz	6.2 dB
	200 MHz to 1000 MHz	6.3 dB
	1 GHz to 6 GHz	4.8 dB
	6 GHz to 18 GHz	5.2 dB
	18 GHz to 40 GHz	5.5 dB
1 m	1 GHz to 18 GHz	5.3 dB
	18 GHz to 40 GHz	5.6 dB
0.5m	26.5 GHz to 40 GHz	5.8 dB

Antenna Terminal Test

Test Item	Calculate Uncertainty (+/-)
6 dB Bandwidth / 99 % Occupied Bandwidth	0.012 %
Maximum Output Power	0.61 dB
Burst Rate	0.11 %
Power Density	1.2 dB
Conducted Spurious Emission (9 kHz to 30 MHz)	1.2 dB

3.6 Test Location

UL Japan, Inc. Kashima EMC Lab.
1614 Mushihata, Katori-shi, Chiba-ken, 289-0341 Japan
Telephone: +81-478-88-6500
A2LA Certificate Number: 1266.01 / FCC Test Firm Registration Number: 910230
ISED Lab Company Number: 4659A / CAB identifier: JP0006

Test site	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Maximum measurement distance
No.1 Open site (OS1)	6.0 x 5.5 x 2.5	20 x 40	10 m
No.5 Open site (OS5)	8.6 x 7.1 x 2.4	18 x 23	10 m
No.1 Shielded room (SR1)	5.4 x 4.5 x 2.3	-	-
No.5 Shielded Room (SR5)	4.2 x 3.1 x 2.5	-	-
No.9 Shielded Room (SR9)	6.1 x 3.6 x 2.8	-	-
No.6 Semi-anechoic Chamber (SAC6)	8.5 x 5.5 x 5.2	-	3 m
No.10 Semi-anechoic Chamber (SAC10)	18.4 x 9.9 x 7.7	-	10 m
No.11 Semi-anechoic Chamber (SAC11)	9.0 x 6.5 x 5.2	-	3 m
No.1 Measurement room (MR1)	5.0 x 3.7 x 2.6	-	-
No.2 Measurement room (MR2)	4.3 x 4.4 x 2.7	-	-

3.7 Test Data, Test Instruments, and Test Set Up

Refer to APPENDIX.

SECTION 4: Operation of EUT during testing

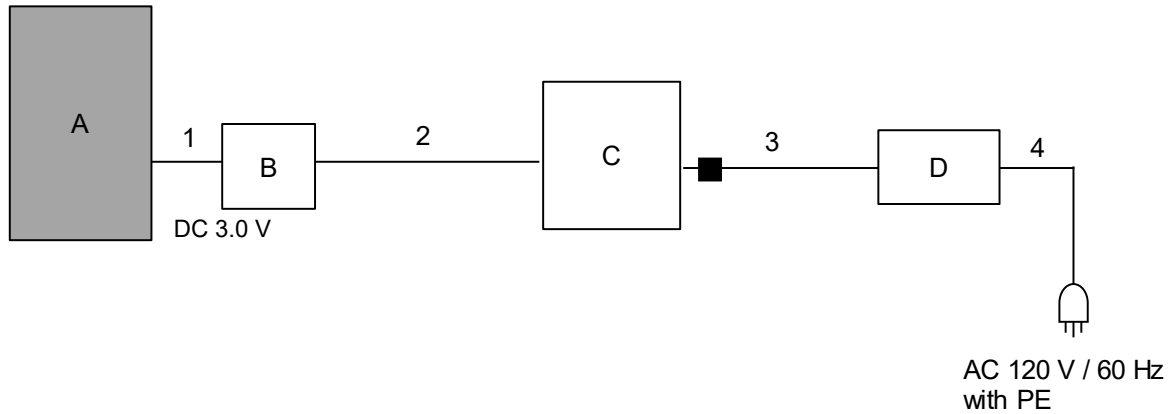
4.1 Operating Mode(s)

Mode	Remarks*
Bluetooth LE (BT LE)	1M, Maximum Packet Size, PRBS9
*Power of the EUT was set by the software as follows; Power Setting: 0 dBm Software: NCP Commander Version: 6.0.2 (Date: 2026.03 26, 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 Frequency
Radiated Spurious Emission (Below 1 GHz)	Tx BT LE *1)	2402 MHz
Radiated Spurious Emission (Above 1 GHz), Maximum Peak Output Power, Power Density, 6 dB Bandwidth, 99% Occupied Bandwidth, Conducted Spurious Emission	Tx BT LE	2402 MHz 2440 MHz 2480 MHz
*1) Radiated 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



■ : Standard Ferrite Core

* 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	Rear Remote Controller	AT2603	No.13 *1) No.17 *2)	SMK CORPORATION	EUT
B	Jig	-	-	SMK CORPORATION	-
C	Laptop PC	Vostro 3590	42145640175	DELL	-
D	AC Adapter	HA45NM140	CN-00285K- CH200-03H- 0MPY-A07	DELL	-

*1) Used for Antenna Terminal conducted test

*2) Used for Radiated Emission test

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	Signal Cable	0.1	Unshielded	Unshielded	-
2	USB Cable	2.0	Shielded	Shielded	-
3	DC Cable	1.9	Unshielded	Unshielded	-
4	AC Cable	0.9	Unshielded	Unshielded	3 wires

SECTION 5: Radiated Spurious Emission

Test Procedure

[For below 1 GHz]

EUT was placed on the platform of nominal size, 0.5 m by 0.5 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 1 GHz	Above 1 GHz
Antenna Type	Hybrid	Horn

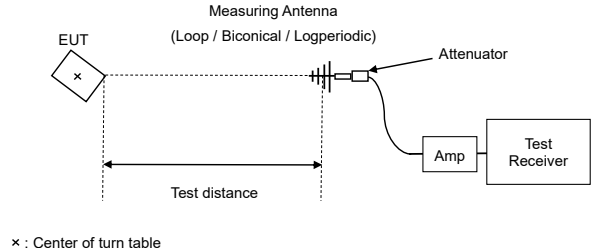
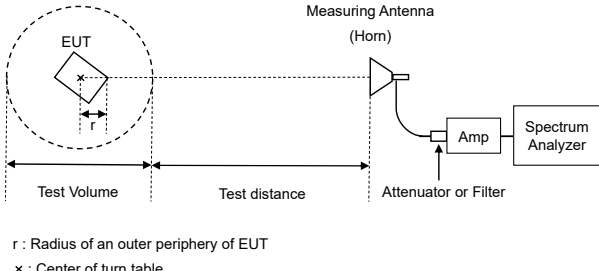
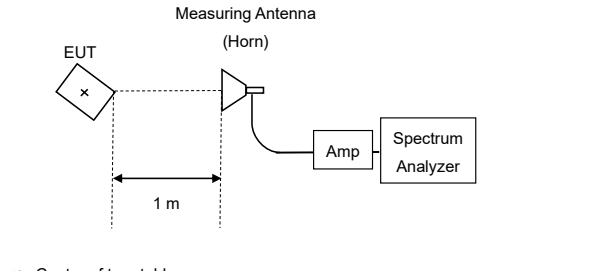
In any 100 kHz bandwidth outside the restricted band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired 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 10 GHz  r : Radius of an outer periphery of EUT × : Center of turn table	Distance Factor: $20 \times \log (4.44 \text{ m}^* / 3.0 \text{ m}) = 3.41 \text{ dB}$ $*(\text{Test Distance} + \text{SVSWR Volume} / 2) - r = 4.44 \text{ m}$ Test Distance: 3.0 m SVSWR Volume: 3.0 m (SVSWR Volume has been calibrated based on CISPR 16-1-4.) r: 0.06 m
10 GHz to 26.5 GHz  × : 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	X	Y	X	X	X	X
Vertical	Z	Y	Z	Z	Z	Z

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: 160 MHz BW)
Peak Power Density	1.5 times the 6 dB Bandwidth	3 kHz	9.1 kHz	Auto	Peak	Max Hold	Spectrum Analyzer *3)
Conducted Spurious Emission *4) *5)	9 kHz to 150 kHz	200 Hz	620 Hz	Auto	Peak	Max Hold	Spectrum Analyzer
	150 kHz to 30 MHz	10 kHz	30 kHz				

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

*2) Reference data

*3) Section 11.10.2 Method PKPSD (peak PSD) of "ANSI C63.10-2020".

*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 not detected 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

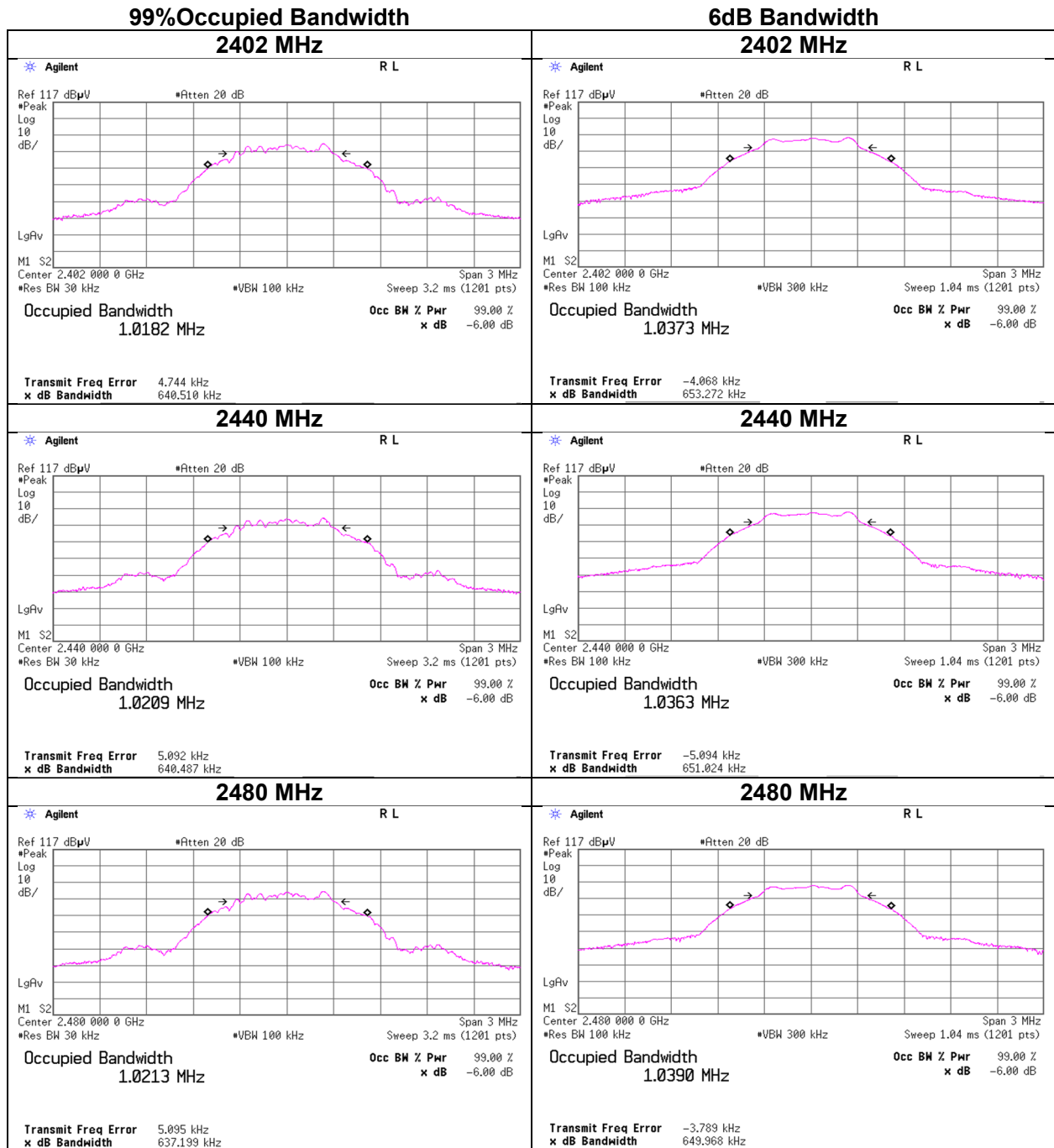
6 dB Bandwidth and 99 % Occupied Bandwidth

Mode	Tx BT LE			
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Date	Test Place	Temperature	Humidity	Engineer
March 26, 2026	MR2	22 deg.C	42 %RH	Hiromitsu Tanabe

Mode	Frequency [MHz]	99% Occupied Bandwidth [kHz]	6dB Bandwidth [MHz]	Limit for 6dB Bandwidth [MHz]
BT LE	2402	1018.2	0.653	> 0.5000
	2440	1020.9	0.651	> 0.5000
	2480	1021.3	0.650	> 0.5000

99%Occupied Bandwidth, 6dB Bandwidth



Maximum Peak Output Power

Mode	Tx BT LE
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Date	Test Place	Temperature	Humidity	Engineer
March 26, 2026	MR2	22 deg.C	42 %RH	Hiromitsu Tanabe

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]			[dB]	[dBi]	[dBm]	[mW]		[dBm]	[mW]
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	[dBi]	[dBm]	[mW]	[dBm]	[mW]	[dB]		
2402	-11.19	1.31	9.74	-0.14	0.97	30.00	1000	30.14	0.81	0.67	1.17	36.02	4000	35.35		
2440	-11.46	1.31	9.74	-0.41	0.91	30.00	1000	30.41	0.81	0.40	1.10	36.02	4000	35.62		
2480	-11.39	1.31	9.74	-0.34	0.92	30.00	1000	30.34	0.81	0.47	1.11	36.02	4000	35.55		

Sample Calculation:

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

e.i.r.p. Result = Conducted Power Result + Antenna Gain

*The equipment and cables were not used for factor 0 dB of the data sheets.

Average Output Power (Reference data for RF Exposure)

Mode	Tx BT LE
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Date	Test Place	Temperature	Humidity	Engineer
March 26, 2026	MR2	22 deg.C	42 %RH	Hiromitsu Tanabe

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	-12.38	1.31	9.74	-1.33	0.74	0.68	-0.65	0.86
2440	-12.70	1.31	9.74	-1.65	0.68	0.68	-0.97	0.80
2480	-12.58	1.32	9.74	-1.52	0.70	0.68	-0.84	0.82

Sample Calculation:

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

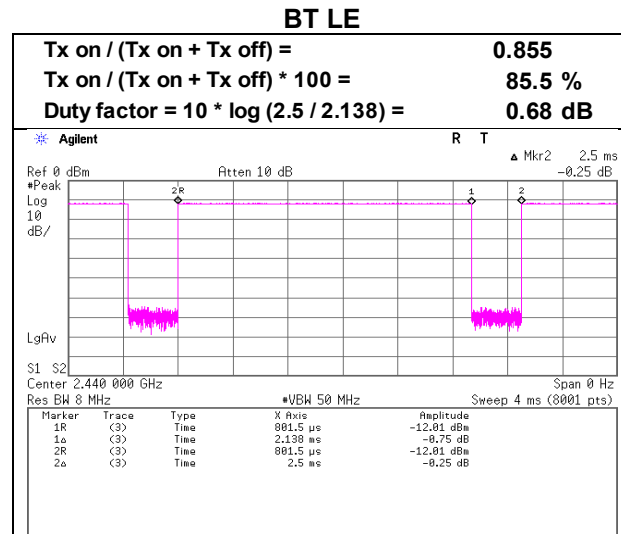
Result (Burst power average) = Time average + Duty factor

*The equipment and cables were not used for factor 0 dB of the data sheets.

Burst rate confirmation

Mode	Tx BT LE			
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Date	Test Place	Temperature	Humidity	Engineer
March 26, 2026	MR2	22 deg.C	42 %RH	Hiromitsu Tanabe



* Since the burst rate is not different between the channels, the data has been obtained on the representative channel.

Radiated Spurious Emission

Mode	Tx BT LE 2402 MHz
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Date	Test Place	Temperature	Humidity	Engineer	Measurement Range
March 26, 2026	SAC10	20 deg.C	42 %RH	Hiromitsu Tanabe	30 MHz to 1000 MHz
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	1 GHz to 10 GHz
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	10 GHz to 18 GHz
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	18 GHz to 26.5 GHz

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	71.905	QP	34.21	11.25	6.36	32.14	0.00	19.68	40.0	20.3	100	166	-
Hori.	841.436	QP	31.63	22.80	10.90	31.64	0.00	33.69	46.0	12.3	100	175	-
Hori.	2390.000	PK	49.81	27.55	13.25	43.86	3.41	50.16	73.9	23.7	363	172	-
Hori.	4804.000	PK	52.58	32.61	5.55	45.26	3.41	48.89	73.9	25.0	371	333	-
Hori.	7206.000	PK	52.14	37.13	6.87	44.10	3.41	55.45	73.9	18.4	177	297	-
Hori.	9608.000	PK	47.11	37.98	7.79	41.98	3.41	54.31	73.9	19.5	150	0	Floor noise
Hori.	9608.000	AV	37.84	37.98	7.79	41.98	3.41	45.04	53.9	8.8	150	0	Floor noise
Vert.	36.000	QP	47.90	12.53	5.86	32.16	0.00	34.13	40.0	5.8	100	230	-
Vert.	72.000	QP	45.90	11.23	6.36	32.14	0.00	31.35	40.0	8.6	100	188	-
Vert.	79.788	QP	45.74	9.28	6.44	32.13	0.00	29.33	40.0	10.6	100	177	-
Vert.	210.361	QP	47.37	9.91	7.62	31.99	0.00	32.91	43.5	10.5	100	175	-
Vert.	560.963	QP	32.41	18.74	9.74	31.97	0.00	28.92	46.0	17.0	100	200	-
Vert.	631.057	QP	34.11	20.25	10.05	32.00	0.00	32.41	46.0	13.5	100	28	-
Vert.	841.438	QP	28.93	22.80	10.90	31.64	0.00	30.99	46.0	15.0	100	239	-
Vert.	2390.000	PK	49.98	27.55	13.25	43.86	3.41	50.33	73.9	23.5	123	282	-
Vert.	4804.000	PK	54.33	32.61	5.55	45.26	3.41	50.64	73.9	23.2	150	199	-
Vert.	7206.000	PK	53.48	37.13	6.87	44.10	3.41	56.79	73.9	17.1	387	348	-
Vert.	9608.000	PK	46.76	37.98	7.79	41.98	3.41	53.96	73.9	19.9	150	0	Floor noise
Vert.	9608.000	AV	37.76	37.98	7.79	41.98	3.41	44.96	53.9	8.9	150	0	Floor noise

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(4.44 [m] / 3.0 [m]) = 3.41 [dB]$

10 GHz to 40 GHz : $20\log(1.00 [m] / 3.0 [m]) = -9.54 [dB]$

Average measurement value with Duty Factor

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2390.000	AV	40.68	27.55	13.25	43.86	0.68	3.41	41.71	53.9	12.1	*1)
Hori.	4804.000	AV	45.35	32.61	5.55	45.26	0.68	3.41	42.34	53.9	11.5	-
Hori.	7206.000	AV	44.09	37.13	6.87	44.10	0.68	3.41	48.08	53.9	5.8	-
Vert.	2390.000	AV	40.85	27.55	13.25	43.86	0.68	3.41	41.88	53.9	12.0	*1)
Vert.	4804.000	AV	47.56	32.61	5.55	45.26	0.68	3.41	44.55	53.9	9.3	-
Vert.	7206.000	AV	46.19	37.13	6.87	44.10	0.68	3.41	50.18	53.9	3.7	-

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Duty Fac. + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(4.44 [m] / 3.0 [m]) = 3.41 [dB]$

10 GHz to 40 GHz : $20\log(1.00 [m] / 3.0 [m]) = -9.54 [dB]$

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 Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2402.000	PK	94.35	27.58	13.26	43.85	3.41	94.75	-	-	Carrier
Hori.	2400.000	PK	52.28	27.58	13.26	43.85	3.41	52.68	74.8	22.0	-
Vert.	2402.000	PK	93.22	27.58	13.26	43.85	3.41	93.62	-	-	Carrier
Vert.	2400.000	PK	50.76	27.58	13.26	43.85	3.41	51.16	73.6	22.4	-

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

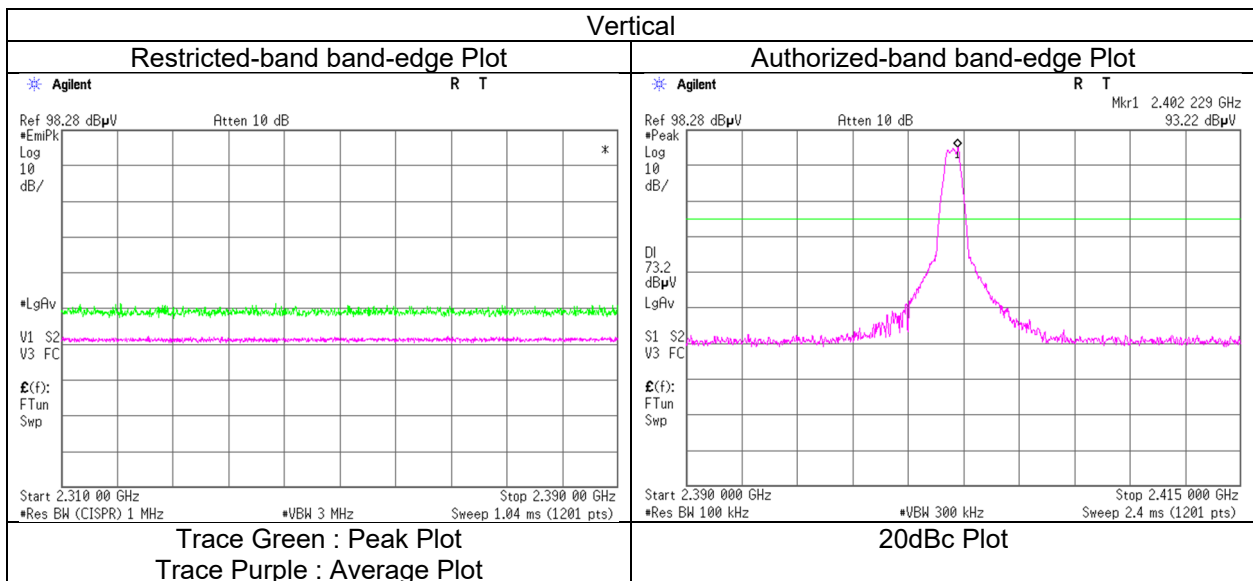
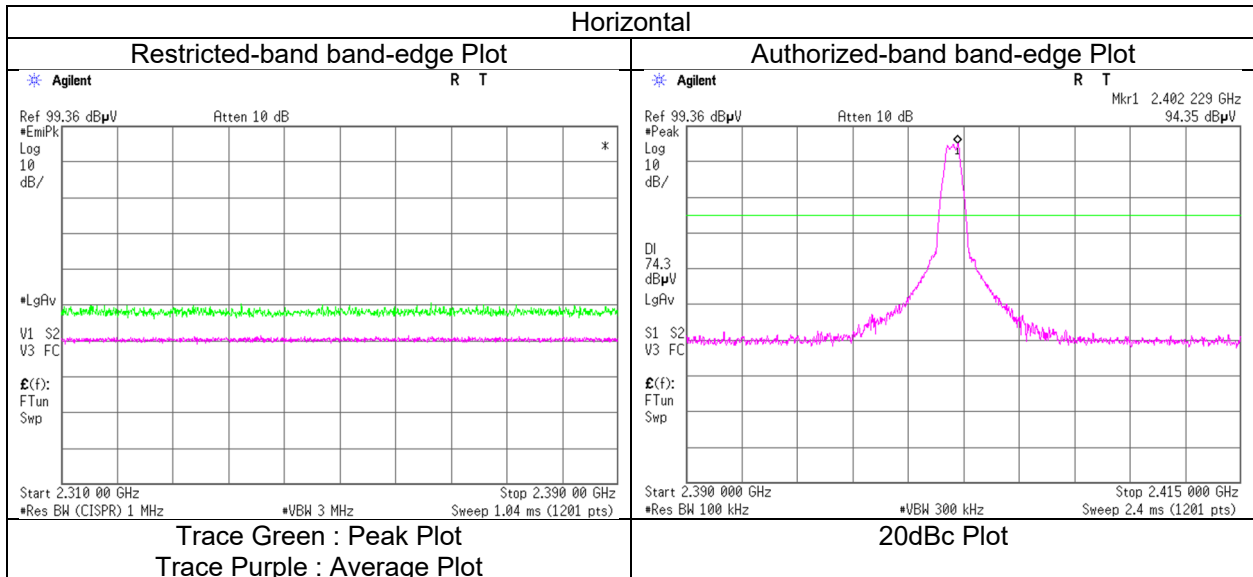
Distance Fac. : 1 GHz to 10 GHz : $20\log(4.44 [m] / 3.0 [m]) = 3.41 [dB]$

10 GHz to 40 GHz : $20\log(1.00 [m] / 3.0 [m]) = -9.54 [dB]$

Radiated Spurious Emission (Reference Plot for band-edge)

Mode	Tx BT LE 2402 MHz				
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Date	Test Place	Temperature	Humidity	Engineer	Measurement Range
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	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 2440 MHz
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Date	Test Place	Temperature	Humidity	Engineer	Measurement Range
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	1 GHz to 10 GHz
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	10 GHz to 18 GHz
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	18 GHz to 26.5 GHz

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	4880.000	PK	53.64	32.60	5.59	45.30	3.41	49.94	73.9	23.9	371	333	-
Hori.	7320.000	PK	52.43	37.44	6.92	43.82	3.41	56.38	73.9	17.5	154	300	-
Hori.	9760.000	PK	46.42	37.93	7.90	41.86	3.41	53.80	73.9	20.1	150	0	Floor noise
Hori.	9760.000	AV	38.09	37.93	7.90	41.86	3.41	45.47	53.9	8.4	150	0	Floor noise
Vert.	4880.000	PK	53.26	32.60	5.59	45.30	3.41	49.56	73.9	24.3	146	200	-
Vert.	7320.000	PK	51.93	37.44	6.92	43.82	3.41	55.88	73.9	18.0	392	357	-
Vert.	9760.000	PK	47.65	37.93	7.90	41.86	3.41	55.03	73.9	18.8	150	0	Floor noise
Vert.	9760.000	AV	38.00	37.93	7.90	41.86	3.41	45.38	53.9	8.5	150	0	Floor noise

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(4.44 [m] / 3.0 [m]) = 3.41 [dB]$

10 GHz to 40 GHz : $20\log(1.00 [m] / 3.0 [m]) = -9.54 [dB]$

Average measurement value with Duty Factor

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Fac. [dB]	Distance Fac. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	4880.000	AV	46.21	32.60	5.59	45.30	0.68	3.41	43.19	53.9	10.7	-
Hori.	7320.000	AV	44.10	37.44	6.92	43.82	0.68	3.41	48.73	53.9	5.1	-
Vert.	4880.000	AV	46.00	32.60	5.59	45.30	0.68	3.41	42.98	53.9	10.9	-
Vert.	7320.000	AV	43.94	37.44	6.92	43.82	0.68	3.41	48.57	53.9	5.3	-

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Duty Fac. + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(4.44 [m] / 3.0 [m]) = 3.41 [dB]$

10 GHz to 40 GHz : $20\log(1.00 [m] / 3.0 [m]) = -9.54 [dB]$

Duty factor refer to "Burst rate confirmation" sheet.

Radiated Spurious Emission

Mode	Tx BT LE 2480 MHz
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Date	Test Place	Temperature	Humidity	Engineer	Measurement Range
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	1 GHz to 10 GHz
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	10 GHz to 18 GHz
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	18 GHz to 26.5 GHz

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

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Distance	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[deg.]	
Hori.	2483.500	PK	59.24	27.94	13.32	43.81	3.41	60.10	73.9	13.8	389	183	-
Hori.	4960.000	PK	53.57	32.67	5.62	45.34	3.41	49.93	73.9	23.9	100	249	-
Hori.	7440.000	PK	52.83	37.44	6.98	43.53	3.41	57.13	73.9	16.7	100	301	-
Hori.	9920.000	PK	46.25	38.15	7.99	41.86	3.41	53.94	73.9	19.9	150	0	Floor noise
Hori.	9920.000	AV	37.81	38.15	7.99	41.86	3.41	45.50	53.9	8.4	150	0	Floor noise
Vert.	2483.500	PK	57.24	27.94	13.32	43.81	3.41	58.10	73.9	15.8	120	278	-
Vert.	4960.000	PK	53.37	32.67	5.62	45.34	3.41	49.73	73.9	24.1	187	159	-
Vert.	7440.000	PK	50.00	37.44	6.98	43.53	3.41	54.30	73.9	19.6	160	44	-
Vert.	9920.000	PK	46.33	38.15	7.99	41.86	3.41	54.02	73.9	19.8	150	0	Floor noise
Vert.	9920.000	AV	37.95	38.15	7.99	41.86	3.41	45.64	53.9	8.2	150	0	Floor noise

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Distance Fac.

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

Distance Fac. : 1 GHz to 10 GHz : $20\log(4.44 [m] / 3.0 [m]) = 3.41 [dB]$

10 GHz to 40 GHz : $20\log(1.00 [m] / 3.0 [m]) = -9.54 [dB]$

Average measurement value with Duty Factor

Polarity	Frequency	Detector	Reading	Ant.Fac.	Loss	Gain	Duty	Distance	Result	Limit	Margin	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	Fac. [dB]	Fac. [dB]	[dBuV/m]	[dBuV/m]	[dB]	
Hori.	2483.500	AV	43.10	27.94	13.32	43.81	0.68	3.41	44.64	53.9	9.2	*1)
Hori.	4960.000	AV	46.13	32.67	5.62	45.34	0.68	3.41	43.17	53.9	10.7	-
Hori.	7440.000	AV	45.58	37.44	6.98	43.53	0.68	3.41	50.56	53.9	3.3	-
Vert.	2483.500	AV	42.58	27.94	13.32	43.81	0.68	3.41	44.12	53.9	9.7	*1)
Vert.	4960.000	AV	46.15	32.67	5.62	45.34	0.68	3.41	43.19	53.9	10.7	-
Vert.	7440.000	AV	41.86	37.44	6.98	43.53	0.68	3.41	46.84	53.9	7.0	-

Result = Reading + Ant.Fac. + Loss (Cable + (Atten or Filter)(below 18 GHz)) - Gain(Amp) + Duty Fac. + Distance Fac.

Distance Fac. : 1 GHz to 10 GHz : $20\log(4.44 [m] / 3.0 [m]) = 3.41 [dB]$

10 GHz to 40 GHz : $20\log(1.00 [m] / 3.0 [m]) = -9.54 [dB]$

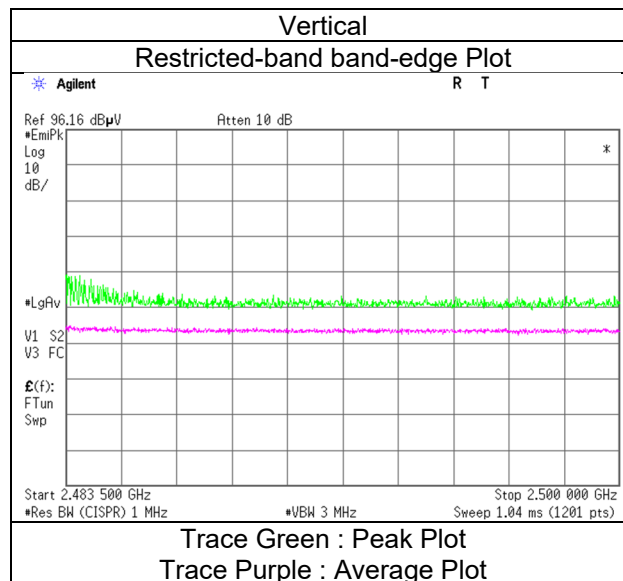
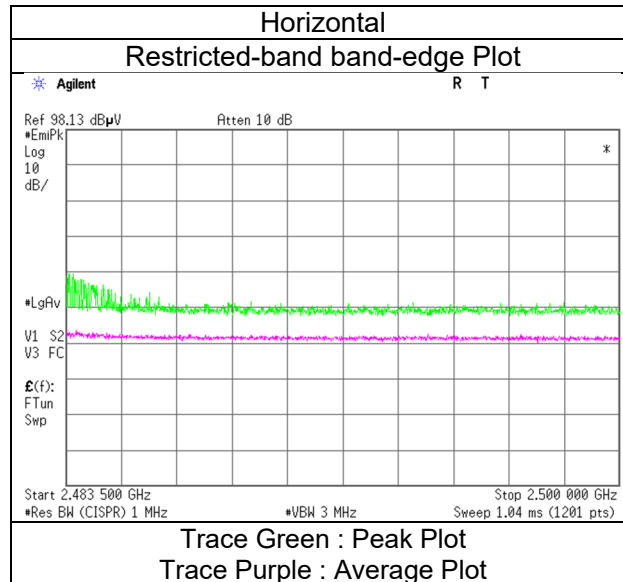
Duty factor refer to "Burst rate confirmation" sheet.

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

Radiated Spurious Emission (Reference Plot for band-edge)

Mode	Tx BT LE 2480 MHz				
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Date	Test Place	Temperature	Humidity	Engineer	Measurement Range
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	1 GHz to 10 GHz



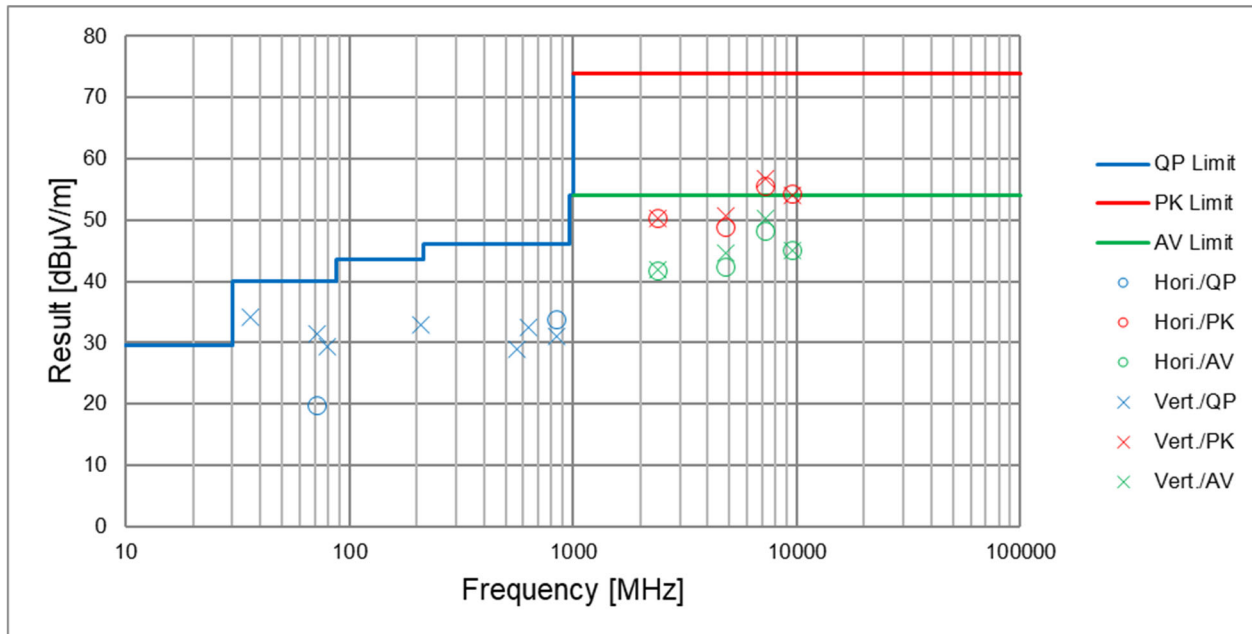
* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

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

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

Mode	Tx BT LE 2402 MHz
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Date	Test Place	Temperature	Humidity	Engineer	Measurement Range
March 26, 2026	SAC10	20 deg.C	42 %RH	Hiromitsu Tanabe	30 MHz to 1000 MHz
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	1 GHz to 10 GHz
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	10 GHz to 18 GHz
March 26, 2026	SAC10	20 deg.C	42 %RH	Tomoyuki Watanabe	18 GHz to 26.5 GHz

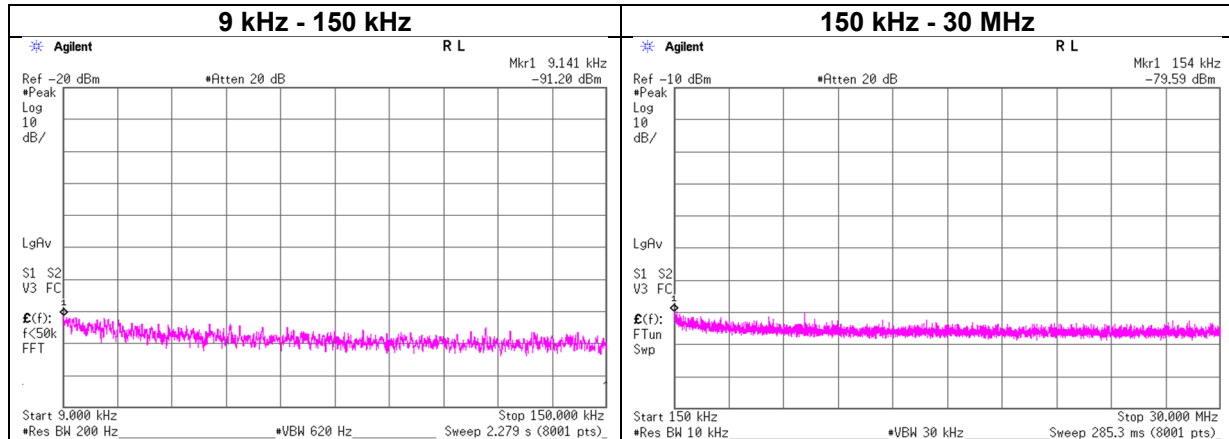


*These plots data contains sufficient number to show the trend of characteristic features for EUT.

Conducted Spurious Emission

Mode	Tx BT LE 2402 MHz
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Date	Test Place	Temperature	Humidity	Engineer
March 26, 2026	MR2	22 deg.C	42 %RH	Hiromitsu Tanabe



Frequency [kHz]	Reading [dBm]	Cable Loss [dB]	Attenuator Loss [dB]	Antenna Gain* [dBi]	N (Number of Output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
9.14	-91.20	0.00	9.62	2.0	1	-79.6	300	6.0	-18.3	48.3	66.6	
154.00	-79.59	0.00	9.62	2.0	1	-68.0	300	6.0	-6.7	23.8	30.5	

$E [dBuV/m] = EIRP [dBm] - 20 \log (Distance [m]) + Ground\ bounce [dB] + 104.8 [dBuV/m]$

$EIRP[dBm] = Reading [dBm] + Cable\ loss [dB] + Attenuator\ Loss [dB] + Antenna\ gain [dBi] + 10 * \log (N)$

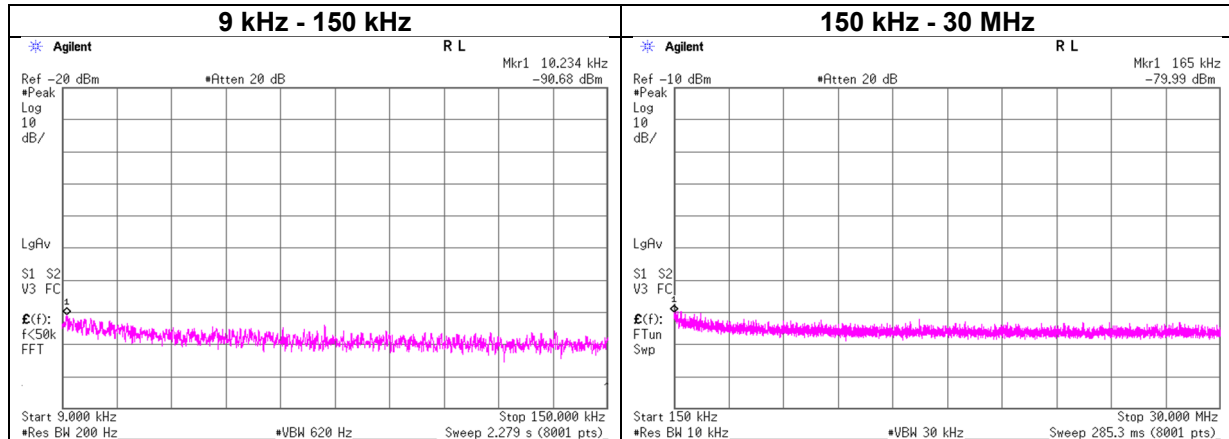
N: Number of output

*2.0 dBi was applied to the test result based on ANSI C63.10 since antenna gain was less than 2.0 dBi.

Conducted Spurious Emission

Mode	Tx BT LE 2440 MHz
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Date	Test Place	Temperature	Humidity	Engineer
March 26, 2026	MR2	22 deg.C	42 %RH	Hiromitsu Tanabe



Frequency [kHz]	Reading [dBm]	Cable Loss [dB]	Attenuator Loss [dB]	Antenna Gain* [dBi]	N (Number of Output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
10.23	-90.68	0.00	9.62	2.0	1	-79.1	300	6.0	-17.8	47.4	65.2	
165.00	-79.99	0.00	9.62	2.0	1	-68.4	300	6.0	-7.1	23.2	30.3	

$E [dBuV/m] = EIRP [dBm] - 20 \log (Distance [m]) + Ground\ bounce [dB] + 104.8 [dBuV/m]$

$EIRP[dBm] = Reading [dBm] + Cable\ loss [dB] + Attenuator\ Loss [dB] + Antenna\ gain [dBi] + 10 * \log (N)$

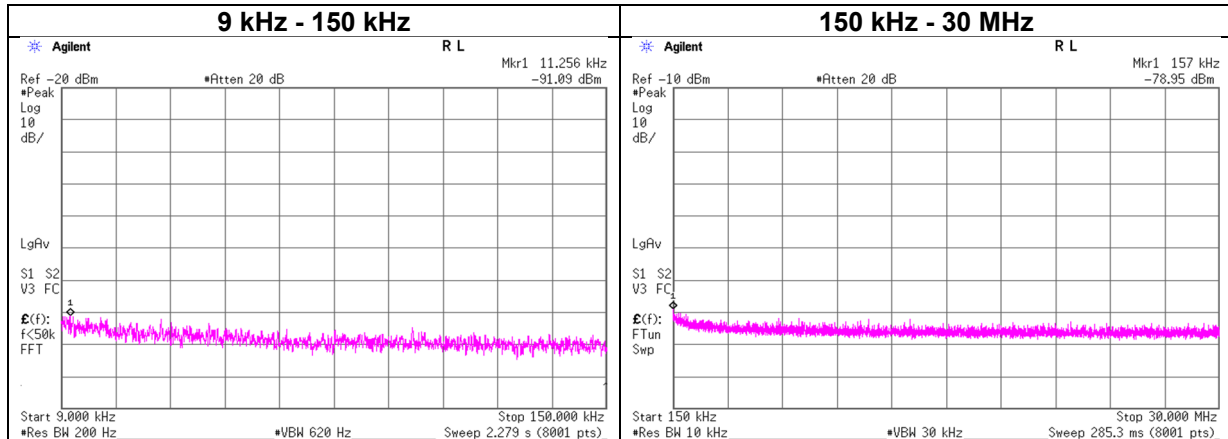
N: Number of output

*2.0 dBi was applied to the test result based on ANSI C63.10 since antenna gain was less than 2.0 dBi.

Conducted Spurious Emission

Mode	Tx BT LE 2480 MHz
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Date	Test Place	Temperature	Humidity	Engineer
March 26, 2026	MR2	22 deg.C	42 %RH	Hiromitsu Tanabe



Frequency [kHz]	Reading [dBm]	Cable Loss [dB]	Attenuator Loss [dB]	Antenna Gain* [dBi]	N (Number of Output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
11.26	-91.09	0.00	9.62	2.0	1	-79.5	300	6.0	-18.2	46.5	64.7	
157.00	-78.95	0.00	9.62	2.0	1	-67.3	300	6.0	-6.1	23.6	29.7	

$E [dBuV/m] = EIRP [dBm] - 20 \log (Distance [m]) + Ground\ bounce [dB] + 104.8 [dBuV/m]$

$EIRP[dBm] = Reading [dBm] + Cable\ loss [dB] + Attenuator\ Loss [dB] + Antenna\ gain [dBi] + 10 * \log (N)$

N: Number of output

*2.0 dBi was applied to the test result based on ANSI C63.10 since antenna gain was less than 2.0 dBi.

Power Density

Mode	Tx BT LE			
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Date	Test Place	Temperature	Humidity	Engineer
March 26, 2026	MR2	22 deg.C	42 %RH	Hiromitsu Tanabe

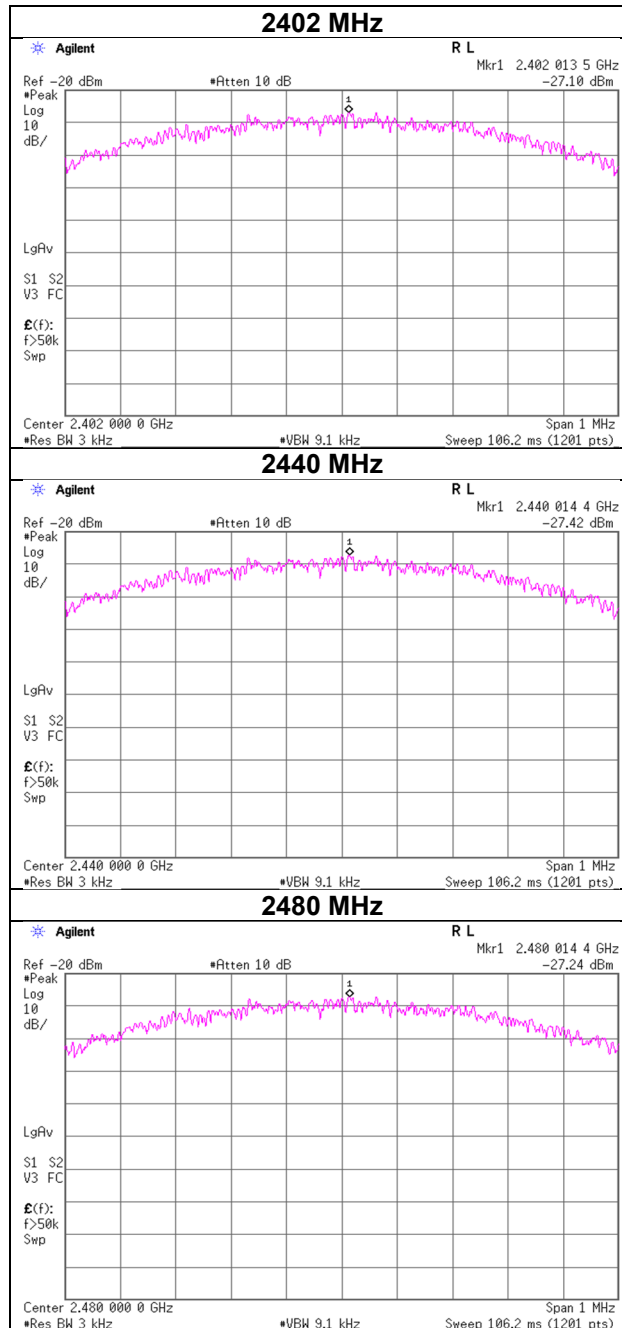
Freq.	Reading	Cable Loss	Atten. Loss	Result	Limit	Margin
[MHz]	[dBm / 3 kHz]	[dB]	[dB]	[dBm / 3 kHz]	[dBm / 3 kHz]	[dB]
2402	-27.10	1.31	9.74	-16.05	8.00	24.05
2440	-27.42	1.31	9.74	-16.37	8.00	24.37
2480	-27.24	1.32	9.74	-16.18	8.00	24.18

Sample Calculation:

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

*The equipment and cables were not used for factor 0 dB of the data sheets.

Power Density



APPENDIX 2: Test Instruments

Test Equipment

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	143588	Peak Power Analyzer	Keysight Technologies Inc	8990B	MY51000276	2025/06/06	12
AT	143606	Power Sensor	Keysight Technologies Inc	N1923A	MY54070024	2025/06/06	12
AT	143643	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY52490024	2025/10/08	12
AT	235556	10dB Fixed Attenuator	Weinschel Associates	WA54-10-1314	0H3E9	2025/06/09	12
AT	143109	Micro Wave Cable	Suhner	SUCOFLEX102	MY3662/2	2025/05/13	12
AT	222747	Measure	SHINWA RULES CO., LTD.	80862	none	-	-
AT	144210	Digital Multimeter	Fluke Corporation	112	89790193	2025/10/06	12
AT	200034	Temperature & Humidity Logger	HIOKI E. E. CORPORATION	LR5001/LR9504	200636456/200699552	2025/07/11	12
AT	143133	Barometer	Sanoh Co., Ltd	SBR-151	001439	2023/03/10	36
RE	143121	LOGBICON	Schwarzbeck Mess-Elektronik OHG	VULB 9168	343	2025/04/10	12
RE	178806	5dB Fixed Atten.	Pasternack Enterprises	PE7047-5	none	2025/04/21	12
RE	143165	10 Site RE 3m System	UL-KAS EMC	none	none	2025/08/07	12
RE	142936	Pre-Amplifier	SONOMA INSTRUMENT	310N	325015	2025/05/08	12
RE	144199	Test Receiver	Keysight Technologies Inc	N9038A	MY53290016	2025/10/07	12
RE	144632	Semi Anechoic Chamber	TDK	NSA (No.10)	10	2025/05/01	12
RE	143455	Double Ridged Wave Guide	ETS-Lindgren (Cedar Park, Texas)	3115	00204569	2026/01/16	12
RE	143140	Micro Wave Cable	Junkosha	MWX221	1407S222	2025/11/17	12
RE	231901	Micro Wave Cable	Junkosha	MWX221	FEB-20-23-020	2025/03/15	12
RE	142940	Pre-Amplifier	Micro Wave Factory	MPR-1G26.5-35	161399	2025/06/04	12
RE	252830	10dB Fixed Attenuator	Weinschel Associates	WA54-10-1211	A101	2025/09/18	12
RE	143459	HPF	Micro-Tronics	HPM50111-02	G015	2025/04/05	12
RE	143643	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY52490024	2025/10/08	12
RE	144633	Semi Anechoic Chamber	TDK	SVSWR(No.10)	10	2025/05/01	12
RE	245789	Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	691	2025/03/11	12
RE	143438	Double Ridged Horn	ETS-Lindgren (Cedar Park, Texas)	3160-09	00166043	2025/06/17	12
RE	142937	Pre-Amplifier	TOYO	HAP18-26W	00000035	2025/06/17	12
RE	142992	Micro Wave Cable	Suhner	SUCOFLEX102	MY010/2A	2025/06/04	12
RE	222745	Measure	SHINWA RULES CO., LTD.	80862	none	-	-
RE	143542	Temperature & Humidity Indicator	HIOKI E. E. CORPORATION	3641/9680-50	090999895/090905406	2025/06/18	12
RE	143133	Barometer	Sanoh Co., Ltd	SBR-151	001439	2023/03/10	36
RE	144216	Digital Multimeter	Fluke Corporation	115	994460954	2025/10/06	12
RE	178804	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3 (RE,CE,ME,PE)	Ver 3.1.0546	-	-

*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