



RF MEASUREMENT REPORT

FCC ID: 2AHXJ-PRO200B
Applicant: Mopeka Products, LLC
Product: Pro-200B
Model No.: PRO200B
Brand Name: Mopeka
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part 15 Subpart C (Section 15.247)
Result: Complies
Received Date: 2026-04-07
Test Date: 2026-05-16 ~ 2026-08-27

Reviewed By:

Vincent Yu

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
R26S1008057-U201	V01	Initial Report	2026-09-01	Invalid
R26S1008057-U201	V02	Update Antenna Gain	2026-09-17	Valid

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1. General Information

1.1. Applicant

Mopeka Products, LLC

1223 Industrial Drive, Suite A New Braunfels, TX 78130

1.2. Manufacturer

Mopeka Products, LLC

1223 Industrial Drive, Suite A New Braunfels, TX 78130

1.3. Testing Facility

☒	Test Site - MRT Suzhou Laboratory	
	☒ Laboratory Location (Suzhou - Wuzhong)	
	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China	
	☐ Laboratory Location (Suzhou - SIP)	
	4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China	
	☐ Laboratory Location (Suzhou - Wujiang)	
Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China		
Laboratory Accreditations		
A2LA: 3628.01		CNAS: L10551
FCC: CN1166		ISED: CN0001
☐	Test Site - MRT Shenzhen Laboratory	
	Laboratory Location (Shenzhen)	
	1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China	
	Laboratory Accreditations	
	A2LA: 3628.02	
FCC: CN1284		ISED: CN0105

1.4. Product Information

Product Name	Pro-200B
Model No.	PRO200B
EUT Identification No.	Y-260407-R025-02 (Conducted) Y-260408-R025-01 (Radiated)
Bluetooth Specification	BLE_1 Mbps
Antenna Specification	Refer to clause 1.5
Operating Temp.	-40 ~ 85 °C
Power Type	3 V (CR2032 battery)
Note: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer	

1.5. Radio Specification under Test

Frequency Range	2400 ~ 2483.5 MHz
Channel Number	40
Modulation Type	GFSK
Data Rate	1 Mbps
Antenna Type	PCB Antenna
Antenna Gain	2.156 dBi

1.6. Working Frequencies

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz	--	--	--	--

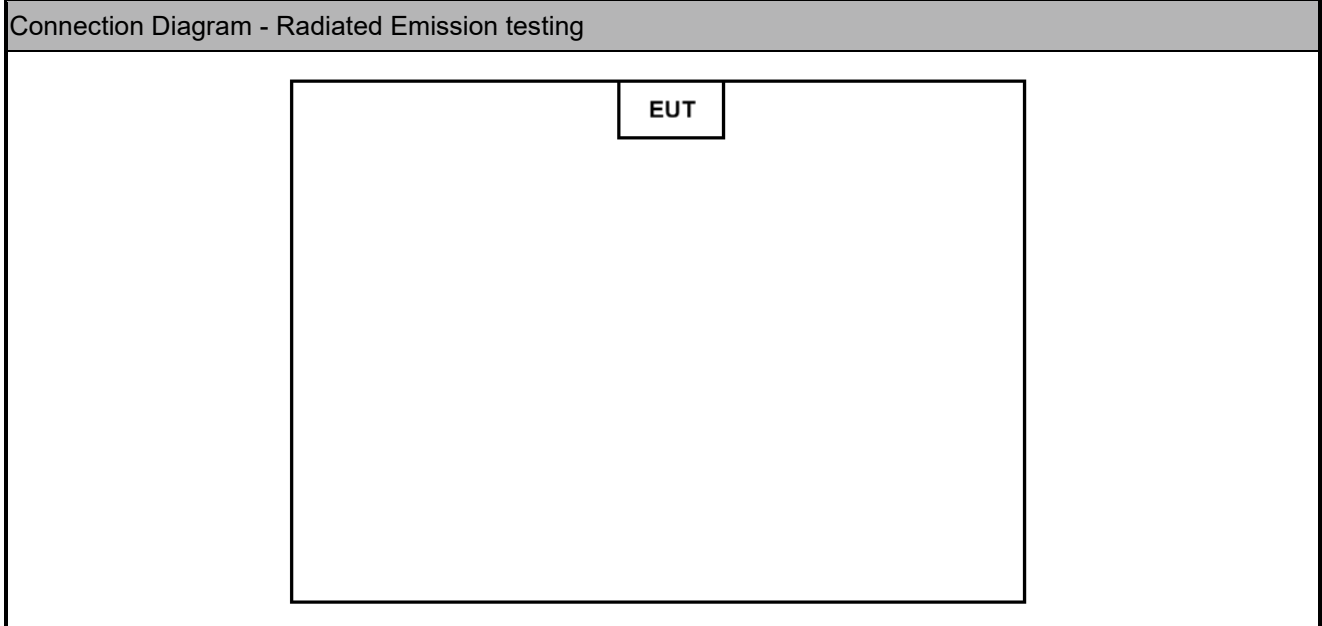
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by BLE - 1 Mbps

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated emissions testing.



2.3. Test Software

The test utility software used during testing was “Mopeka Co Pilot” and the version was 2.8.52.

2.4. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.247
- KDB 558074 D01 v05r02
- ANSI C63.10-2020
- ANSI C63.10-2020/Cor1-2023
- ANSI C63.10a-2024

2.5. Test Environment Condition

Ambient Temperature	15 ~ 35 °C
Relative Humidity	20 ~75%RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2026-10-08	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2027-04-16	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2026-11-02	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2026-12-29	WZ-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2026-09-28	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2026-10-08	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2027-04-16	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2026-07-19	WZ-AC1
					2027-07-07	
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2026-09-28	WZ-AC1
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2026-12-27	WZ-AC1
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2027-04-14	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2027-03-24	WZ-AC1
Shielding Room	HUAMING	WZ-SR6	MRTSUE06443	N/A	N/A	WZ-SR6
Thermohygrometer	testo	608-H1	MRTSUE06362	1 year	2027-01-26	WZ-SR6
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2027-04-14	WZ-SR6
USB Power Sensor	Keysight	U2021XA	MRTSUE06447	1 year	2026-06-17	WZ-SR6
					2027-06-15	
Attenuator	MVE	MVE2213	MRTSUE11085	1 year	2026-06-01	WZ-SR6
					2027-05-27	
RF Cable	UCwave	UCE500	MRTSUE07373	1 year	2026-07-20	WZ-SR6
					2027-07-14	

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802	1.02	RE Antenna & Turntable
Controller_MF 7802	2.03C	RE Antenna & Turntable
Agilent Power Panel	V 3.9	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2.

(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
9 kHz ~ 150 kHz:	3.59 dB
150 kHz ~ 30 MHz:	3.20 dB
Radiated Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
Coaxial:	9 kHz ~ 30 MHz: 2.56 dB
Coplanar:	9 kHz ~ 30 MHz: 2.55 dB
Horizontal:	30 MHz ~ 200 MHz: 3.48 dB
	200 MHz ~ 1 GHz: 4.17 dB
	1 GHz ~ 40 GHz: 5.01 dB
Vertical:	30 MHz ~ 200 MHz: 4.09 dB
	200 MHz ~ 1 GHz: 5.30 dB
	1 GHz ~ 40 GHz: 4.85 dB
Spurious Emissions, Conducted	
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$): 2.9 dB	
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$): 1.4 dB	
Power Spectrum Density	
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$): 2.9 dB	
Occupied Bandwidth	
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$): 2.6%	

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(a)(2)	6 dB Bandwidth	Conducted	Pass
15.247(b)(3)	Output Power		Pass
15.247(e)	Power Spectral Density		Pass
15.247(d)	Band Edge / Out-of-Band Emissions		Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
15.207	AC Conducted Emissions 150 kHz-30 MHz	Line Conducted	N/A

Notes:

1. The analyzer plots shown in this section were captured using a correction table to account for cable and attenuator losses in the system connecting the EUT to the analyzer across relevant frequencies.
2. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
3. "N/A" means that this item is not applicable, and the detail information refer to relevant section.

6.2. 6 dB Bandwidth Measurement

6.2.1. Test Limit

The minimum 6 dB bandwidth shall be at least 500 kHz.

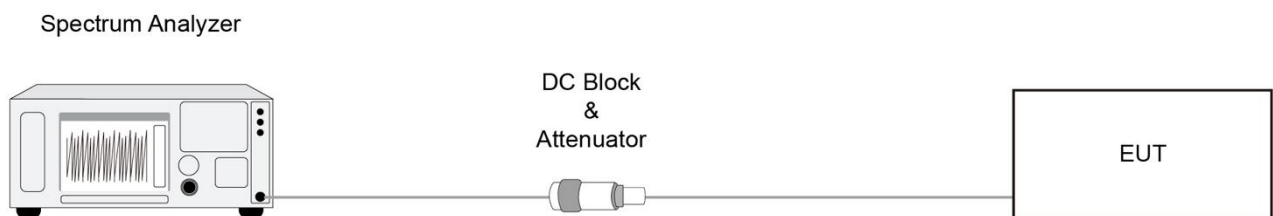
6.2.2. Test Procedure

ANSI C63.10-2020 - Section 11.8

6.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6 dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1% to 5% of the OBW, but not less than 100 kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. Output Power Measurement

6.3.1. Test Limit

The maximum output power shall be less 1 Watt (30 dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3.2. Test Procedure

ANSI C63.10-2020 - Section 11.9.1.2

ANSI C63.10-2020 - Section 11.9.2.3.2

6.3.3. Test Setting

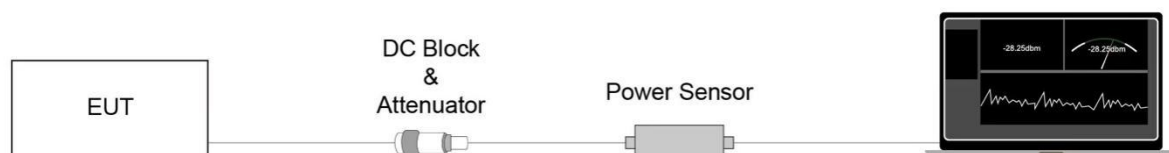
Method PKPM1 (Peak Power Measurement of Signals with DTS BW $\leq$ 50 MHz)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50 MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50 MHz.

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Power Spectral Density Measurement

6.4.1. Test Limit

The maximum permissible power spectral density is 8 dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

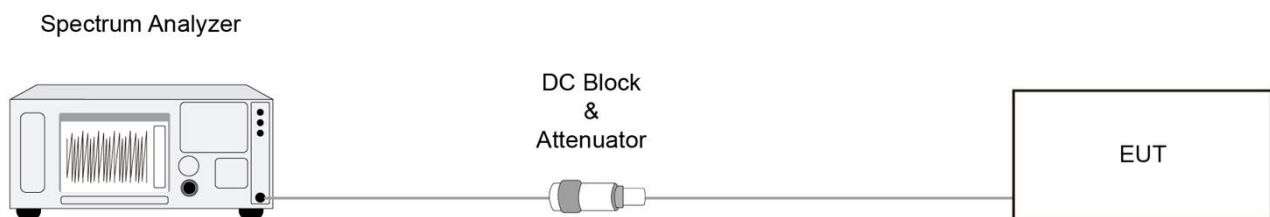
6.4.2. Test Procedure

ANSI C63.10-2020 Section 11.10.2

6.4.3. Test Setting

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3 kHz
4. VBW = 10 kHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. Conducted Band Edge and Out-of-Band Emissions Measurement

6.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20 dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

6.5.2. Test Procedure

ANSI C63.10-2020 - Section 11.11

6.5.3. Test Setting

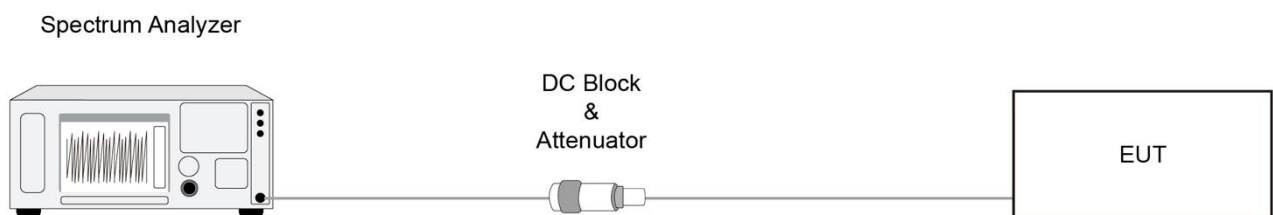
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW $\geq 3 \times$ RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100 kHz
3. VBW = 300 kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Radiated Spurious Emission Measurement

6.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.6.2. Test Procedure

ANSI C63.10-2020 - Section 11.11 & 11.12

ANSI C63.10-2020 - Section 6.3 (General Requirements)

ANSI C63.10-2020 - Section 6.4 (Standard test method below 30 MHz)

ANSI C63.10-2020 - Section 6.5 (Standard test method above 30 MHz to 1 GHz)

ANSI C63.10-2020 - Section 6.6 (Standard test method above 1 GHz)

6.6.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Quasi-Peak Measurements below 1 GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1 MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1 GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW = 3 MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

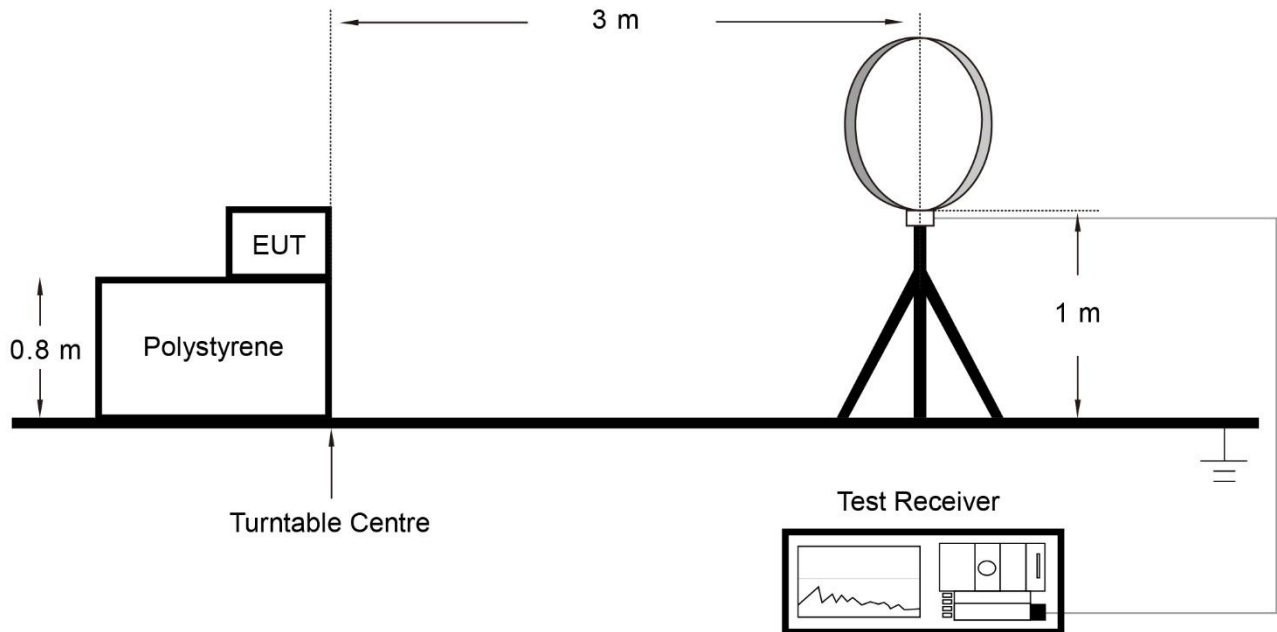
Average Measurements above 1 GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW; if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz

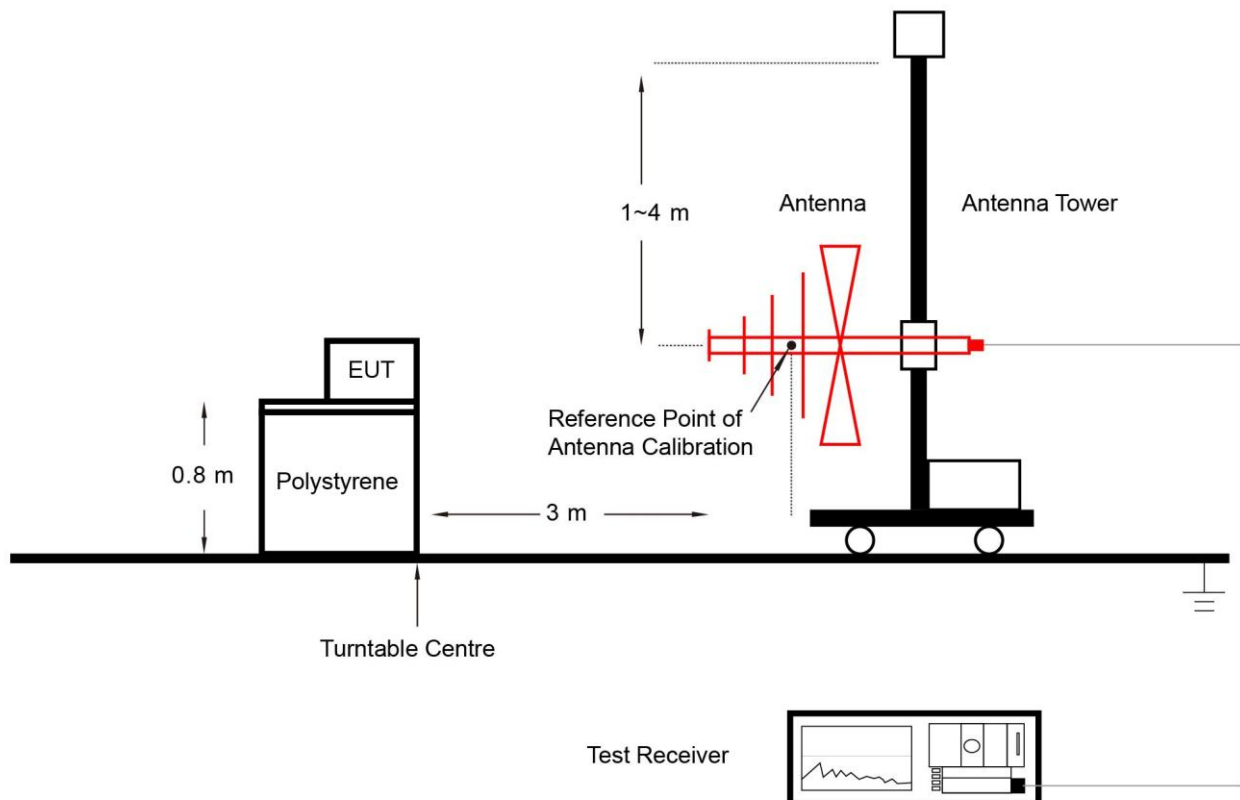
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.6.4. Test Setup

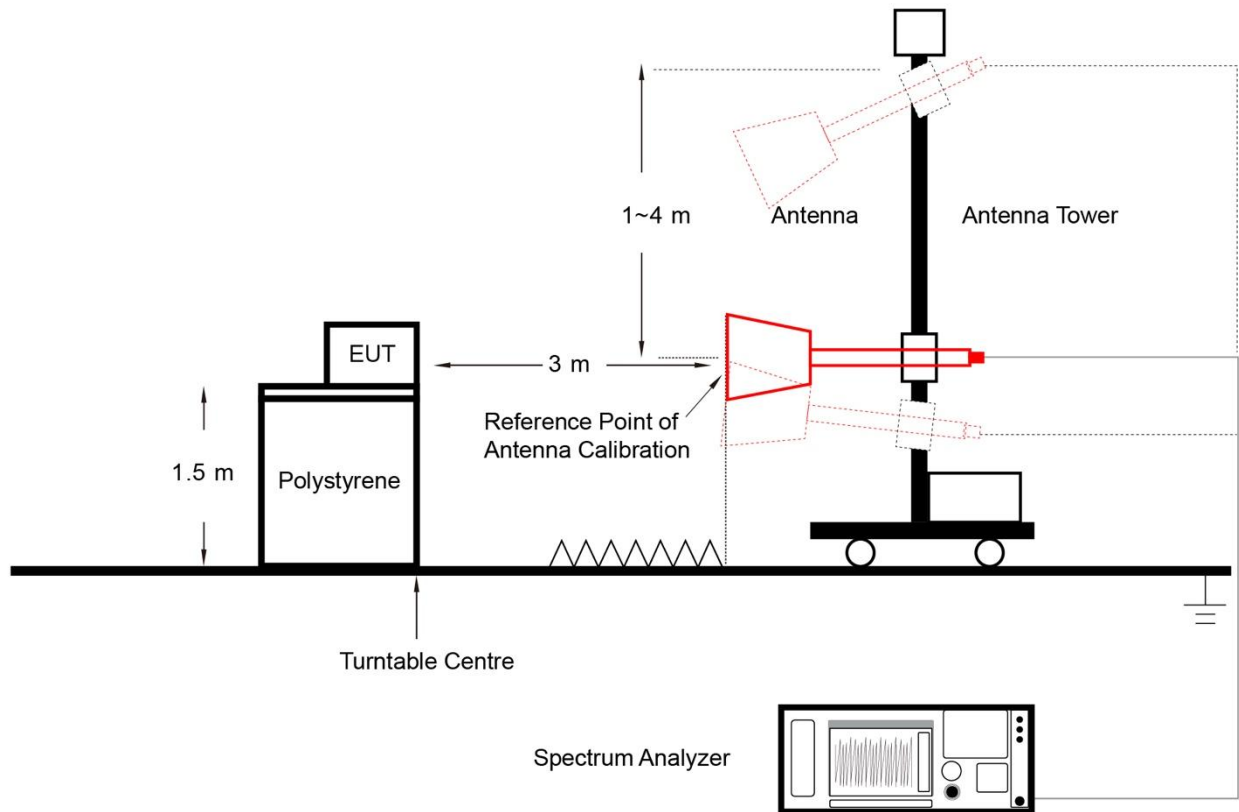
Below 30 MHz Test Setup:



Below 1 GHz Test Setup:



Above 1 GHz Test Setup:



6.6.5. Test Result

Refer to Appendix A.6.

6.7. Radiated Restricted Band Edge Measurement

6.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [μ V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.7.2. Test Procedure

ANSI C63.10-2020 - Section 6.3 & 6.6 & 11.12

6.7.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW = 3 MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

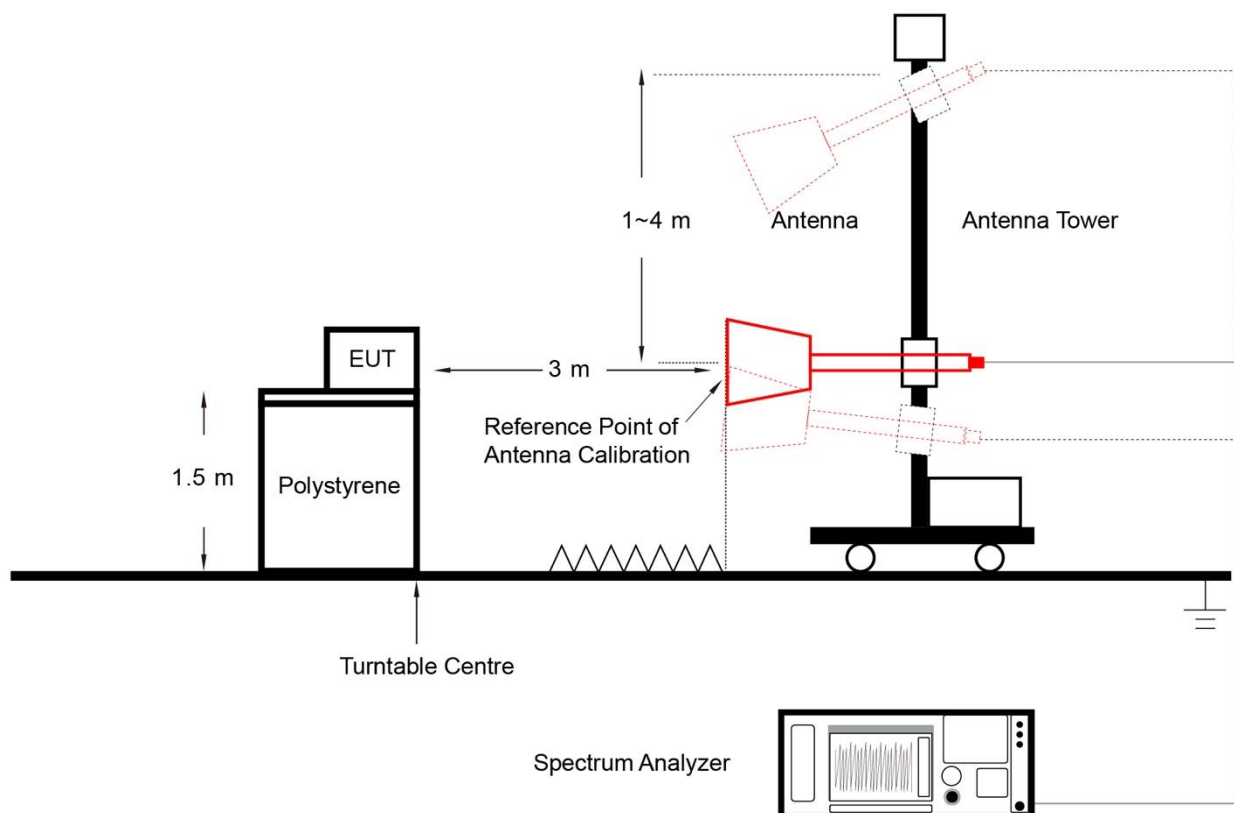
Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.

If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.

4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.7.4. Test Setup



6.7.5. Test Result

Refer to Appendix A.7.

6.8. AC Conducted Emissions Measurement

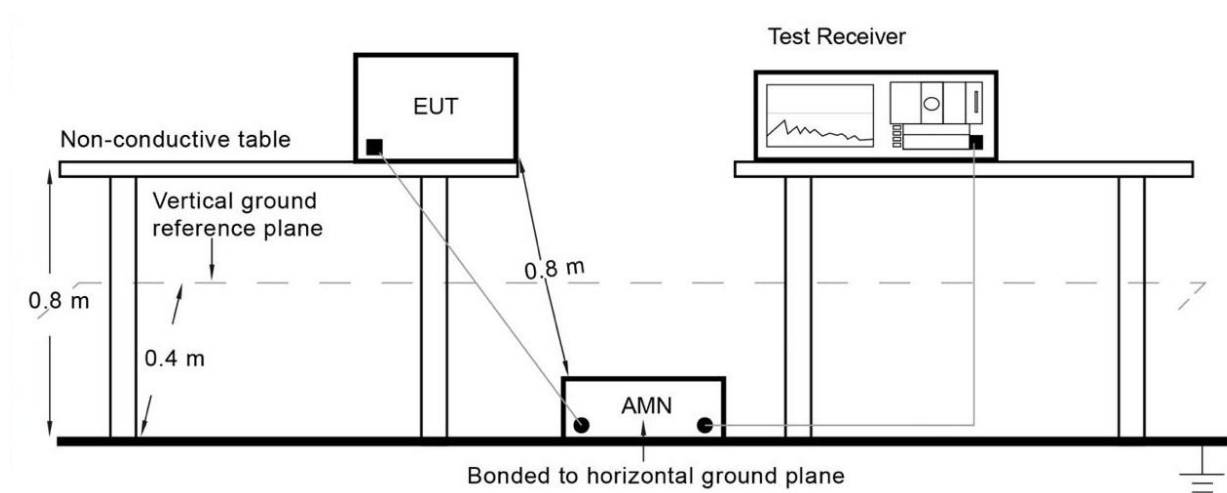
6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

6.8.2. Test Setup



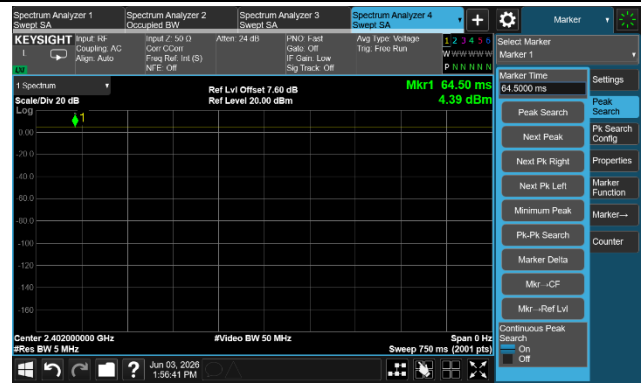
6.8.3. Test Result

The Device is powered by battery, so the item is not applicable.

Appendix A - Test Result

A.1 Duty Cycle Test Result

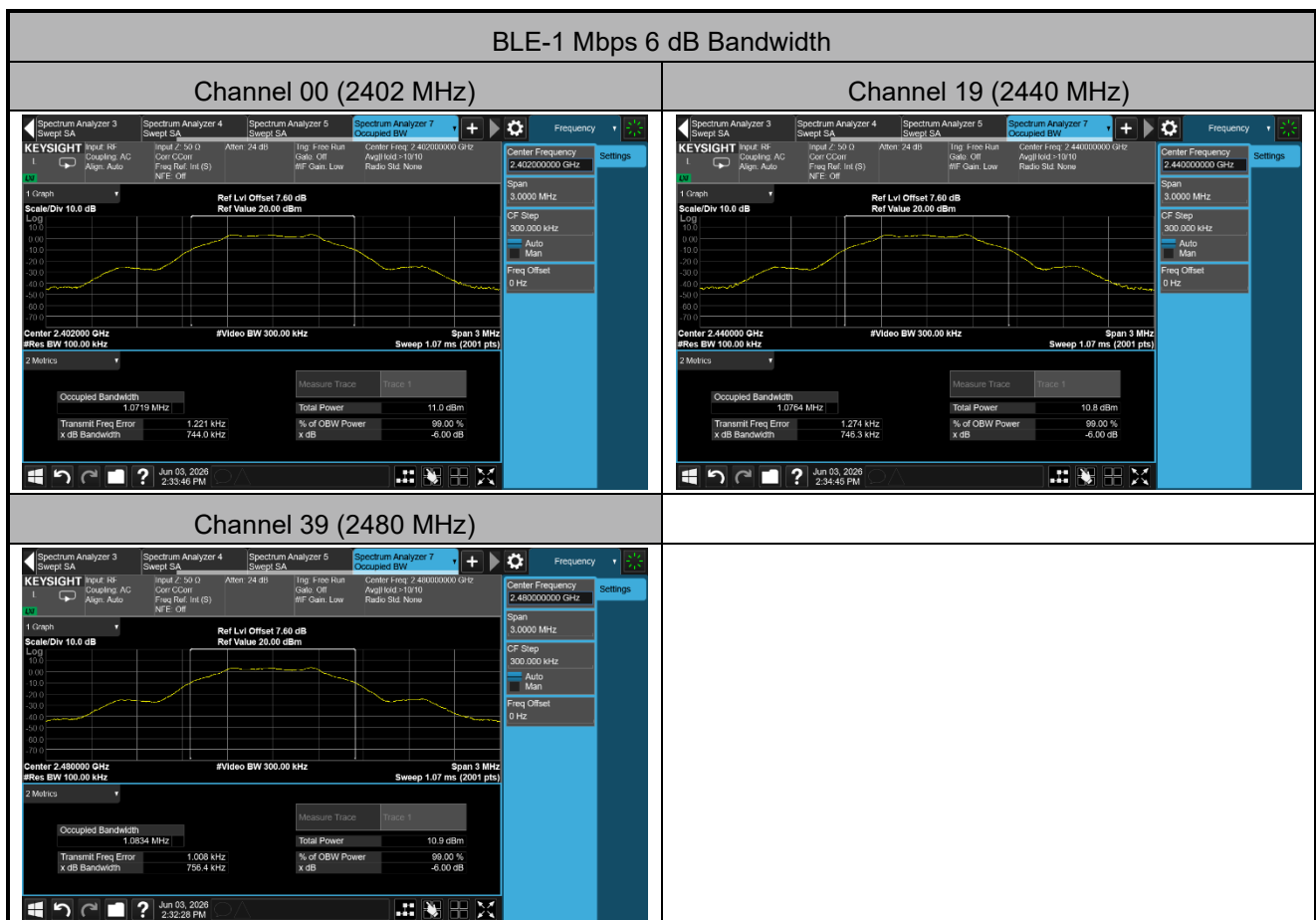
Test Site	WZ-SR6	Test Engineer	Liz Yuan
Test Date	2026-06-03		

Test Mode	Duty Cycle
BLE-1 Mbps	100%
Duty Cycle (T = Transmission Duration)	
BLE-1 Mbps (T = 64.50 ms)	
	

A.2 6 dB Bandwidth Test Result

Test Site	WZ-SR6	Test Engineer	Liz Yuan
Test Date	2026-06-03		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
BLE	1 Mbps	00	2402	744.0	≥ 0.5
BLE	1 Mbps	19	2440	746.3	≥ 0.5
BLE	1 Mbps	39	2480	756.4	≥ 0.5



A.3 Output Power Test Result

Test Site	WZ-SR6	Test Engineer	Liz Yuan
Test Date	2026-06-02		

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1 Mbps	00	2402	4.84	≤ 30.00	Pass
BLE	1 Mbps	19	2440	4.77	≤ 30.00	Pass
BLE	1 Mbps	39	2480	4.61	≤ 30.00	Pass

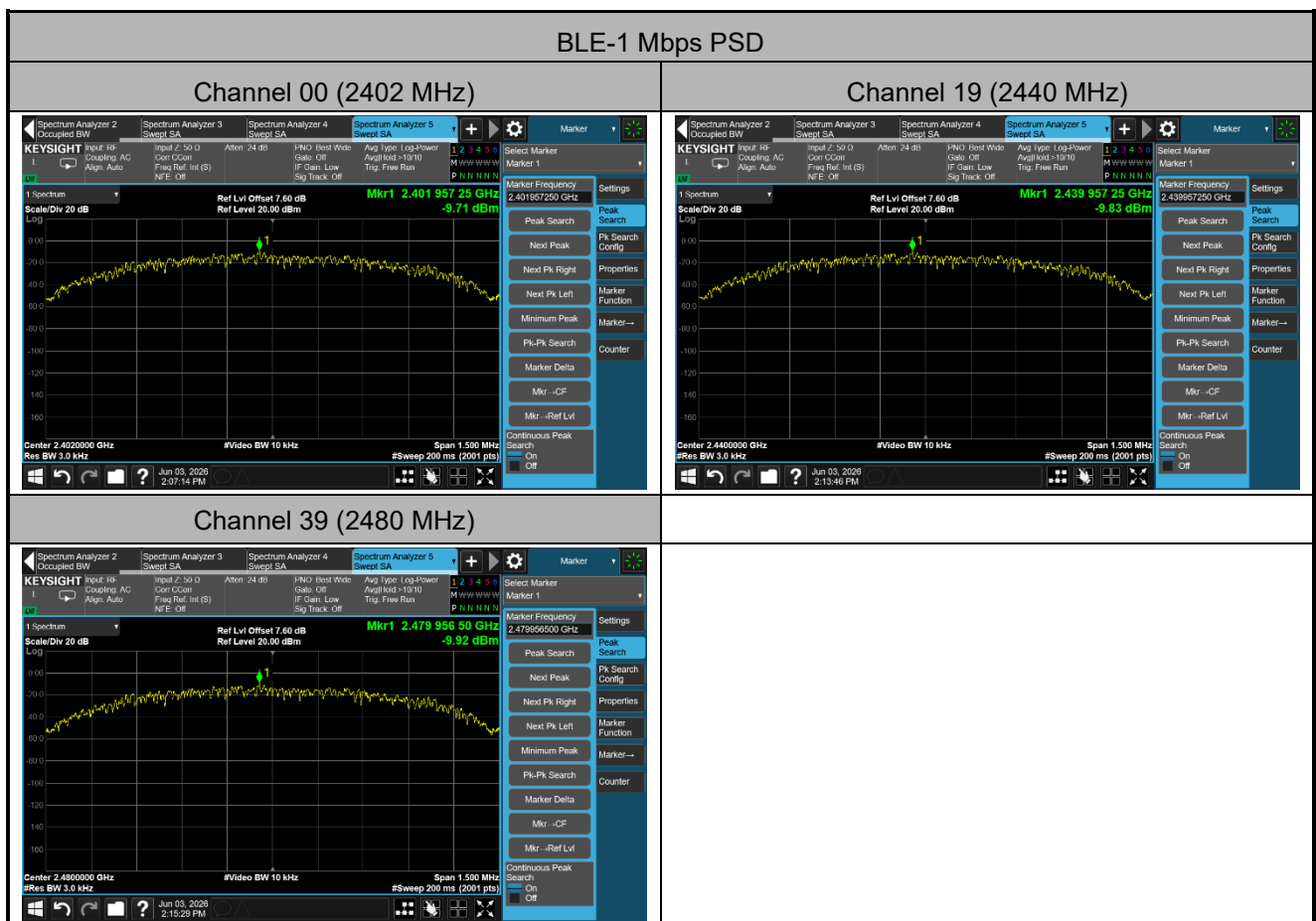
Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1 Mbps	00	2402	4.78	≤ 30.00	Pass
BLE	1 Mbps	19	2440	4.71	≤ 30.00	Pass
BLE	1 Mbps	39	2480	4.57	≤ 30.00	Pass

A.4 Power Spectral Density Test Result

Test Site	WZ-SR6	Test Engineer	Liz Yuan
Test Date	2026-06-03		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
BLE	1 Mbps	00	2402	-9.71	≤ 8.00	Pass
BLE	1 Mbps	19	2440	-9.83	≤ 8.00	Pass
BLE	1 Mbps	39	2480	-9.92	≤ 8.00	Pass



A.5 Conducted Band Edge and Out-of-Band Emissions Test Result

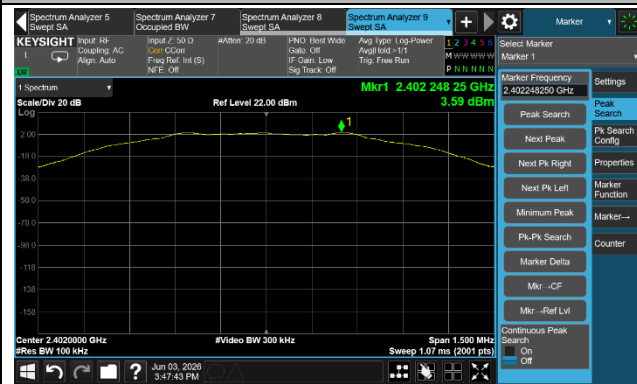
Test Site	WZ-SR6	Test Engineer	Liz Yuan
Test Date	2026-06-03		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1 Mbps	00	2402	20	Pass
BLE	1 Mbps	19	2440	20	Pass
BLE	1 Mbps	39	2480	20	Pass

BLE-1 Mbps Out-of-Band Emissions

Channel 00 (2402 MHz)

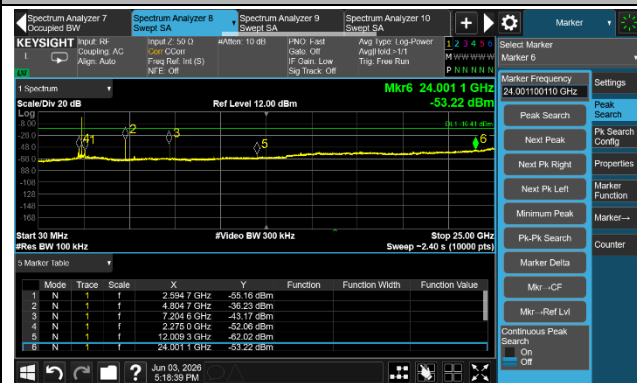
100 kHz PSD Reference Level



Low Band Edge

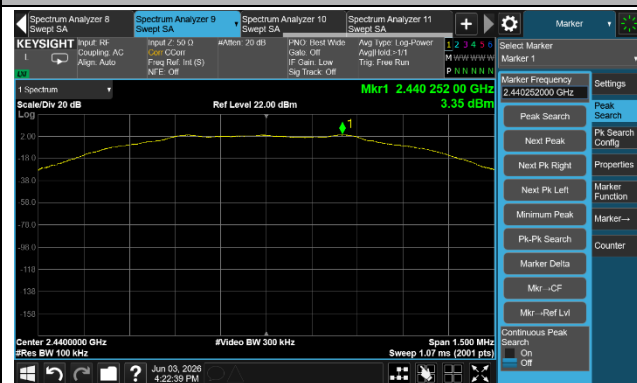


Spurious Emission 30 MHz ~ 25 GHz

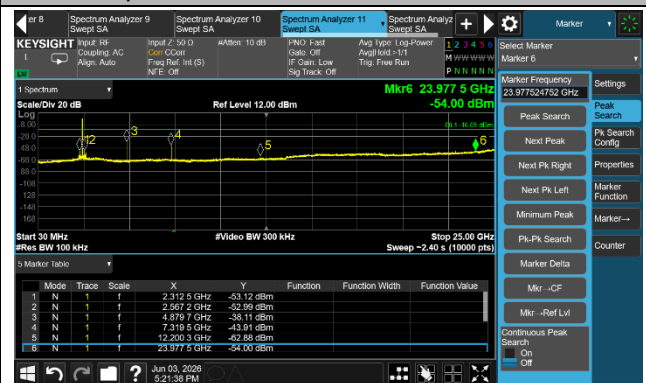


Channel 19 (2440 MHz)

100 kHz PSD Reference Level



Spurious Emission 30 MHz ~ 25 GHz





A.6 Radiated Spurious Emission Test Result

Test Site	WZ-AC1	Test Engineer	Jerry Lu
Test Date	2026-05-16	Test Mode	BLE-1 Mbps
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20 dB below limit line within 1-18 GHz, there is not show in the report.		

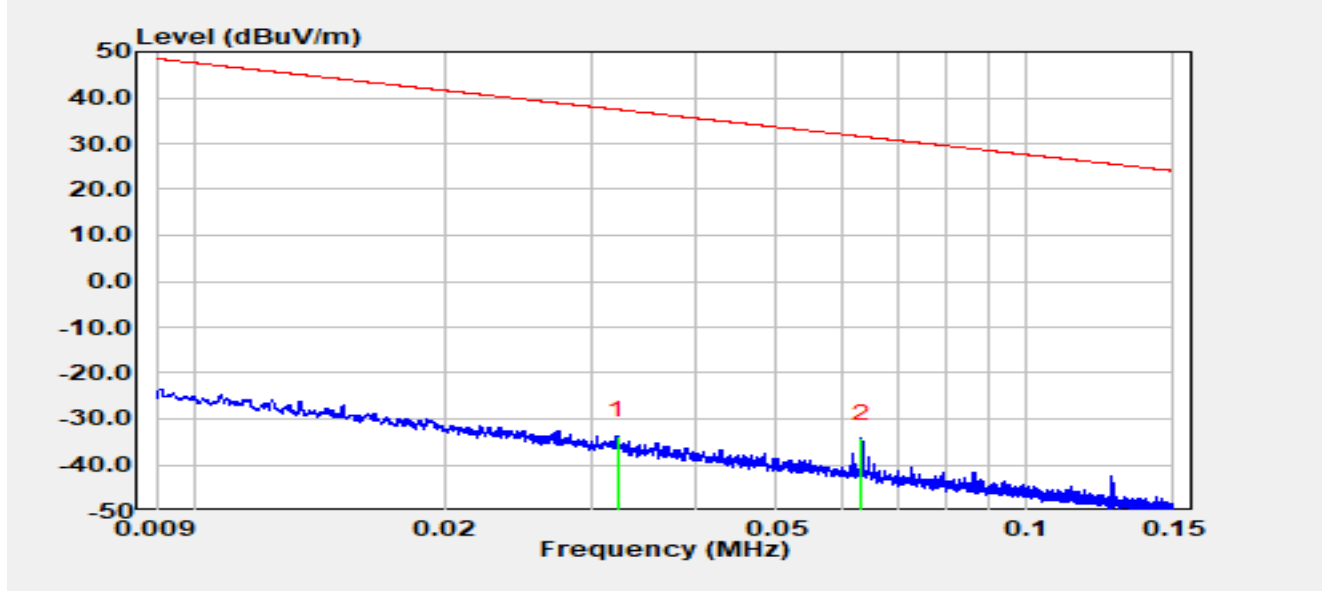
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	4804.60	41.27	4.76	46.03	74.00	-27.97	Peak	Horizontal
	11120.10	35.47	15.40	50.87	74.00	-23.13	Peak	Horizontal
	17945.60	16.53	27.27	43.80	54.00	-10.20	Average	Horizontal
	17945.60	35.36	27.27	62.63	74.00	-11.37	Peak	Horizontal
	9442.20	33.91	15.39	49.30	74.00	-24.70	Peak	Horizontal
	11111.60	22.98	15.5	38.48	54.00	-15.52	Average	Vertical
	11111.60	35.57	15.50	51.07	74.00	-22.93	Peak	Vertical
	17981.30	17.35	27.47	44.82	54.00	-9.18	Average	Vertical
	17981.30	34.25	27.47	61.72	74.00	-12.28	Peak	Vertical
19	4879.40	40.89	4.78	45.67	74.00	-28.33	Peak	Horizontal
	10783.50	34.65	15.86	50.51	74.00	-23.49	Peak	Horizontal
	17981.30	16.52	27.47	43.99	54.00	-10.01	Average	Horizontal
	17981.30	35.03	27.47	62.50	74.00	-11.50	Peak	Horizontal
	9413.30	34.75	15.11	49.86	74.00	-24.14	Peak	Vertical
	10724.00	34.79	15.90	50.69	74.00	-23.31	Peak	Vertical
	17998.30	16.47	27.39	43.86	54.00	-10.14	Average	Vertical
	17998.30	34.24	27.39	61.63	74.00	-12.37	Peak	Vertical
39	9365.70	35.93	14.53	50.46	74.00	-23.54	Peak	Horizontal
	11451.60	35.53	15.34	50.87	74.00	-23.13	Peak	Horizontal
	17972.80	16.58	27.35	43.93	54.00	-10.07	Average	Horizontal
	17972.80	34.97	27.35	62.32	74.00	-11.68	Peak	Horizontal
	7441.30	37.74	10.38	48.12	74.00	-25.88	Peak	Vertical
	11480.50	35.39	15.13	50.52	74.00	-23.48	Peak	Vertical
	17889.50	17.68	26.58	44.26	54.00	-9.74	Average	Vertical
	17889.50	35.51	26.58	62.09	74.00	-11.91	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst-case Result of Radiated Emission for 9 kHz ~ 30 MHz:

Site	WZ-AC1	Test Date	2026-05-16
Temperature	23.5 °C	Humidity	55.9%
Limit	FCC_Part 15.209_RSE	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Coaxial
Test Mode	Transmit by BLE 1M at 2402 MHz		

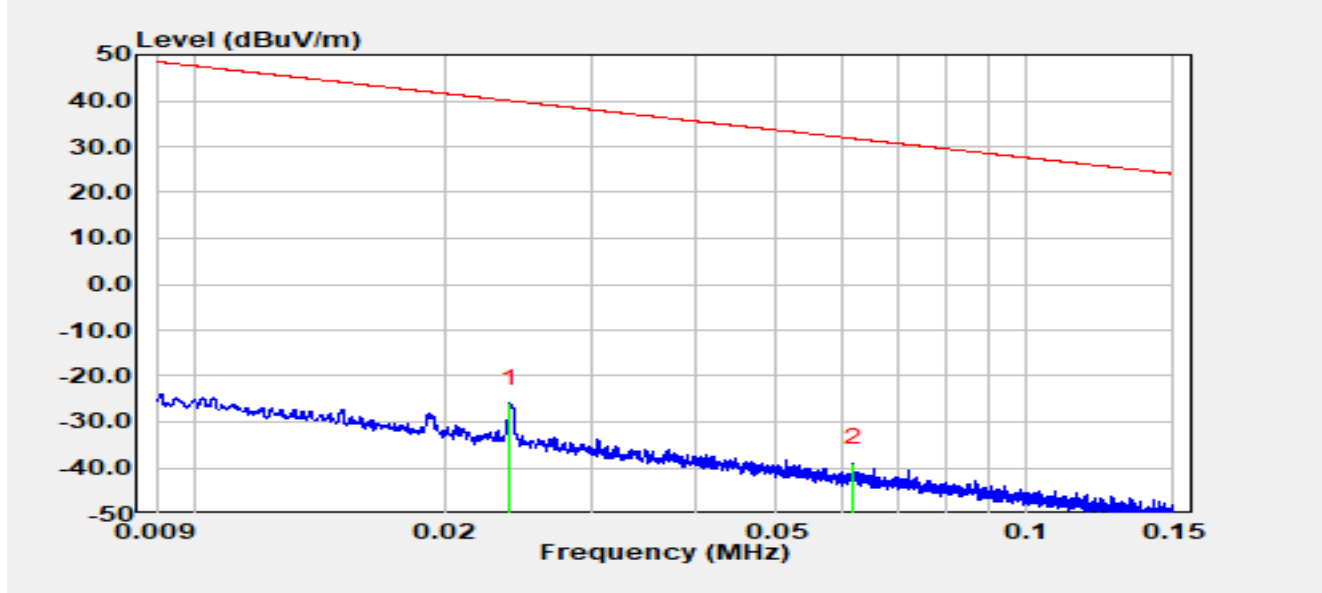


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		0.03	27.19	-60.79	-33.61	-71.05	37.44	Peak
2	*	0.06	26.65	-60.95	-34.30	-65.86	31.56	Peak

Notes:

1. “*” indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + $40\log(d1/d2)$ (dB), $d1 = 3$ m, $d2 = 300$ m (9 kHz-490 kHz) or 30 m (490 kHz-30 MHz).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site	WZ-AC1	Test Date	2026-05-16
Temperature	23.5 °C	Humidity	55.9%
Limit	FCC_Part 15.209_RSE	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Coplanar
Test Mode	Transmit by BLE 1M at 2402 MHz		

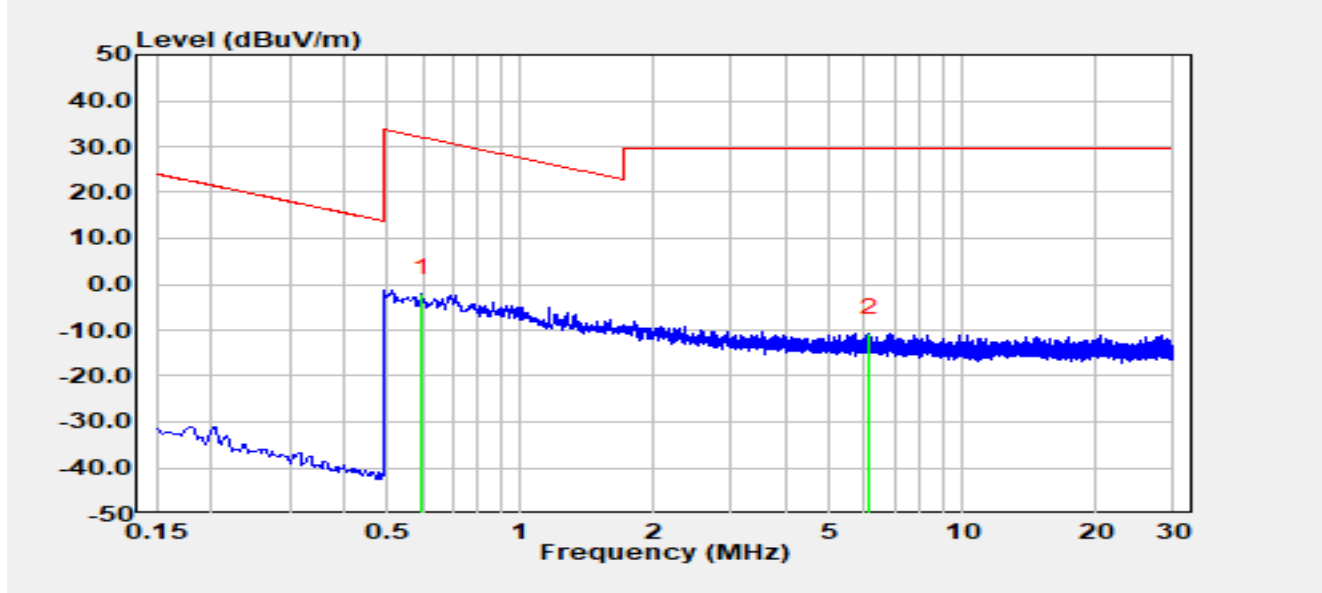


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	0.02	34.72	-60.66	-25.94	-65.97	40.03	Peak
2		0.06	22.02	-60.94	-38.92	-70.68	31.76	Peak

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 40log(d1/d2) (dB), d1 = 3 m, d2 = 300 m (9 kHz-490 kHz) or 30 m (490 kHz-30 MHz).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site	WZ-AC1	Test Date	2026-05-16
Temperature	23.5 °C	Humidity	55.9%
Limit	FCC_Part 15.209_RSE	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Coaxial
Test Mode	Transmit by BLE 1M at 2402 MHz		

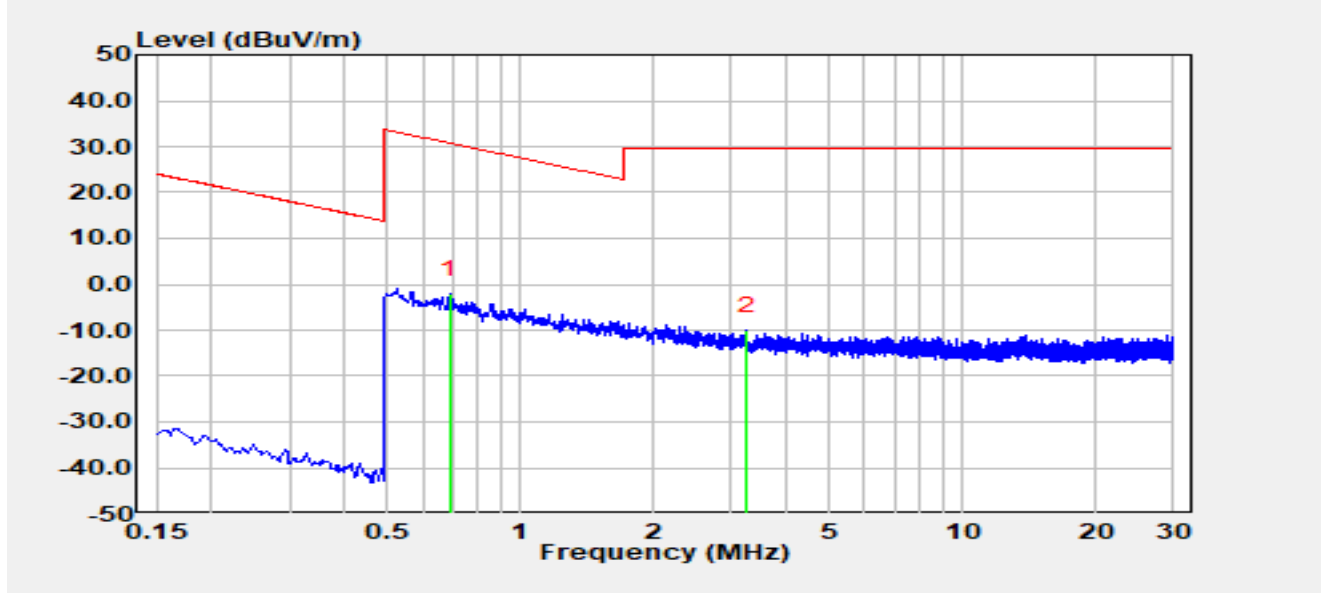


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	0.60	19.10	-21.13	-2.03	-34.11	32.08	Peak
2		6.15	10.48	-21.10	-10.62	-40.12	29.50	Peak

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 40log(d1/d2) (dB), d1 = 3 m, d2 = 300 m (9 kHz-490 kHz) or 30 m (490 kHz-30 MHz).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site	WZ-AC1	Test Date	2026-05-16
Temperature	23.5 °C	Humidity	55.9%
Limit	FCC_Part 15.209_RSE	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Coplanar
Test Mode	Transmit by BLE 1M at 2402 MHz		



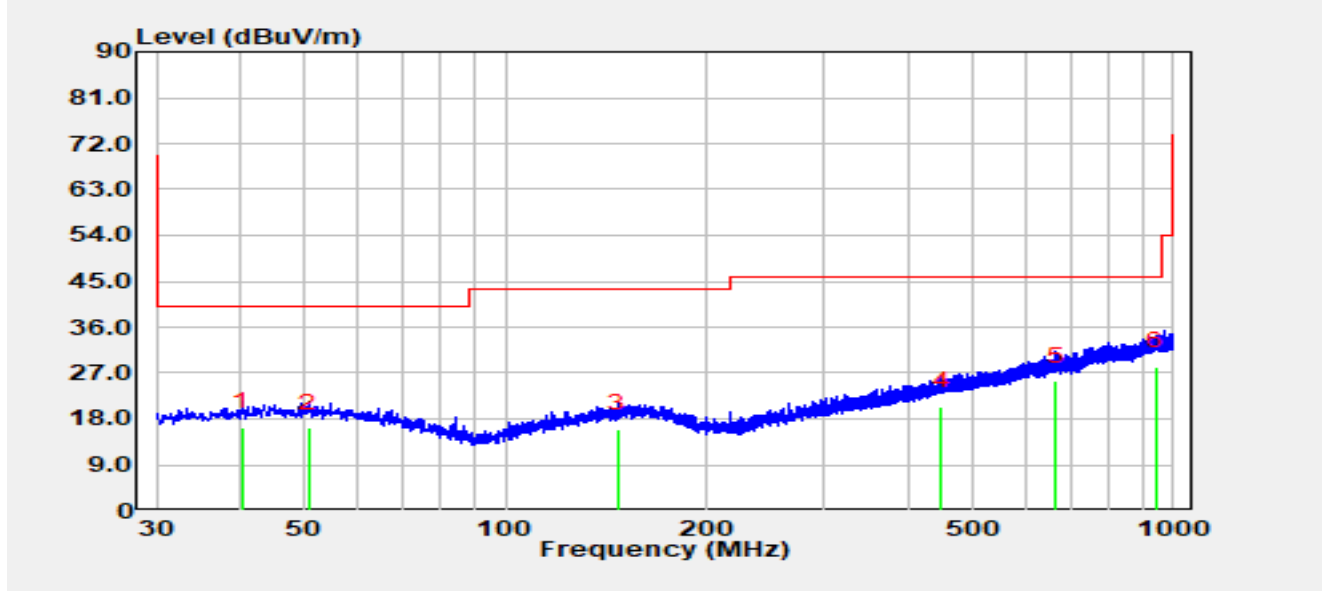
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	0.69	18.87	-21.13	-2.26	-33.09	30.83	Peak
2		3.24	10.91	-20.93	-10.02	-39.52	29.50	Peak

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 40log(d1/d2) (dB), d1 = 3 m, d2 = 300 m (9 kHz-490 kHz) or 30 m (490 kHz-30 MHz).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

The Worst-case Result of Radiated Emission for 30 MHz ~ 1 GHz:

Site	WZ-AC1	Test Date	2026-05-16
Temperature	23.5 °C	Humidity	55.9%
Limit	FCC_Part 15.209_RSE (3 m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by BLE 1M at 2402 MHz		

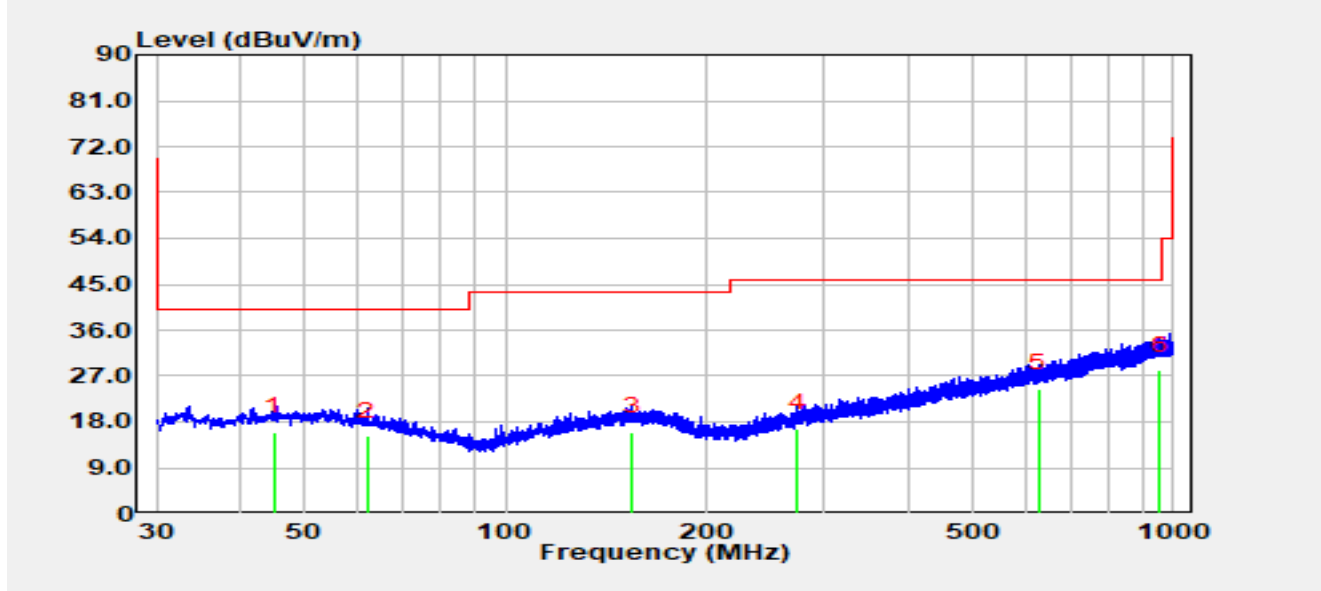


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		40.38	-1.69	18.04	16.35	-23.65	40.00	QP
2		50.66	-2.13	18.39	16.26	-23.74	40.00	QP
3		146.98	-2.08	18.17	16.09	-27.41	43.50	QP
4		449.62	-2.37	22.85	20.48	-25.52	46.00	QP
5		668.16	-1.44	26.91	25.47	-20.53	46.00	QP
6	*	940.54	-2.11	30.44	28.33	-17.67	46.00	QP

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2026-05-16
Temperature	23.5 °C	Humidity	55.9%
Limit	FCC_Part 15.209_RSE (3 m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by BLE 1M at 2402 MHz		



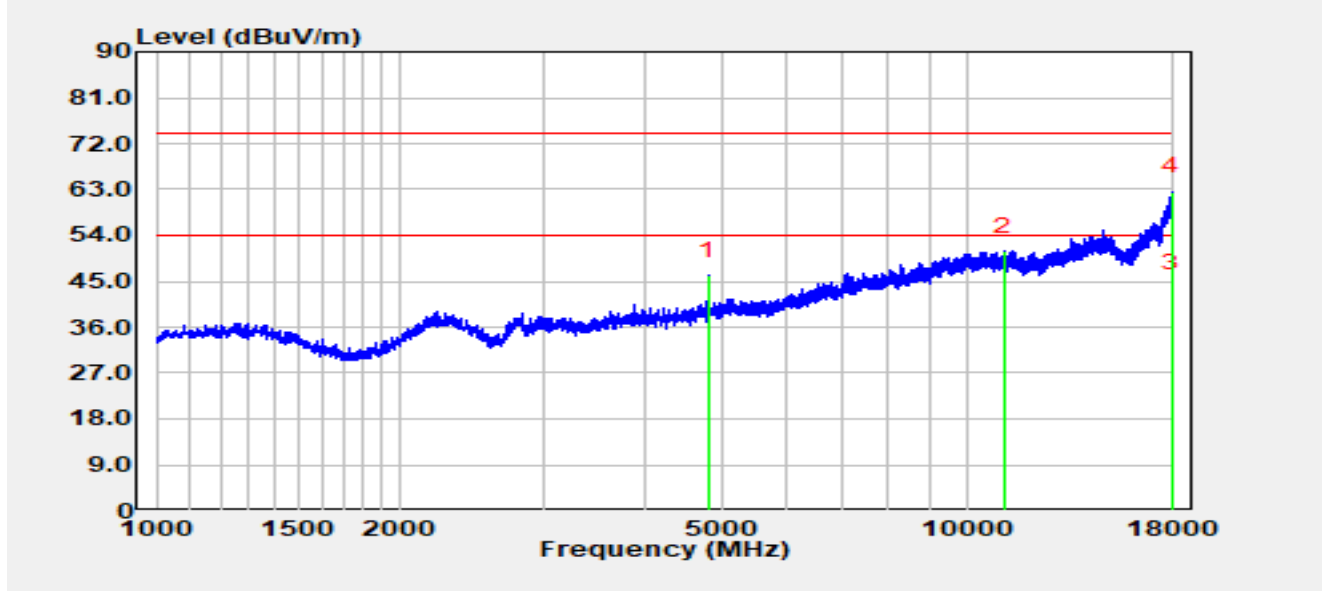
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		45.04	-2.29	18.37	16.08	-23.92	40.00	QP
2		62.01	-2.38	17.59	15.21	-24.79	40.00	QP
3		155.03	-2.18	18.30	16.12	-27.38	43.50	QP
4		273.57	-1.38	18.05	16.67	-29.33	46.00	QP
5		628.20	-1.52	26.09	24.57	-21.43	46.00	QP
6	*	953.34	-2.34	30.46	28.12	-17.88	46.00	QP

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

The Worst-case Result of Radiated Emission for 1 GHz ~ 18 GHz:

Site	WZ-AC1	Test Date	2026-05-16
Temperature	25.0 °C	Humidity	56.1%
Limit	FCC_Part 15.209_RSE (3 m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by BLE 1M at 2402 MHz		

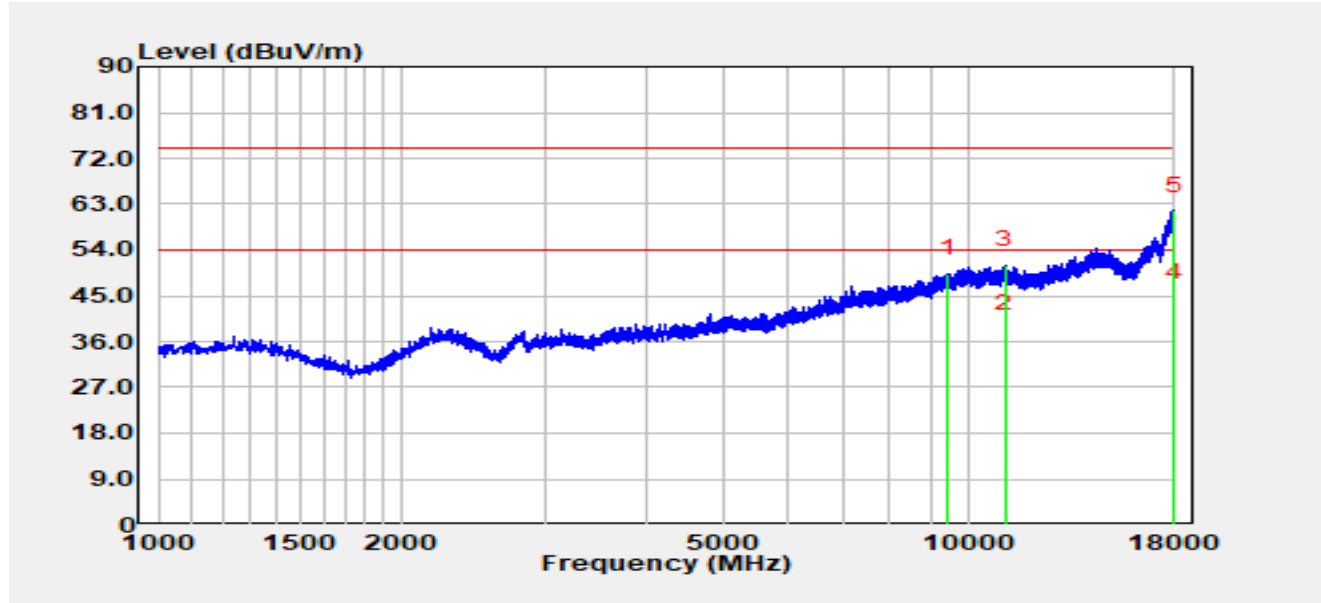


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		4804.60	41.27	4.76	46.03	-27.97	74.00	Peak
2		11120.10	35.47	15.40	50.87	-23.13	74.00	Peak
3	*	17945.60	16.53	27.27	43.80	-10.20	54.00	Average
4		17945.60	35.36	27.27	62.64	-11.36	74.00	Peak

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2026-05-16
Temperature	25.0 °C	Humidity	56.1%
Limit	FCC_Part 15.209_RSE (3 m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by BLE 1M at 2402 MHz		



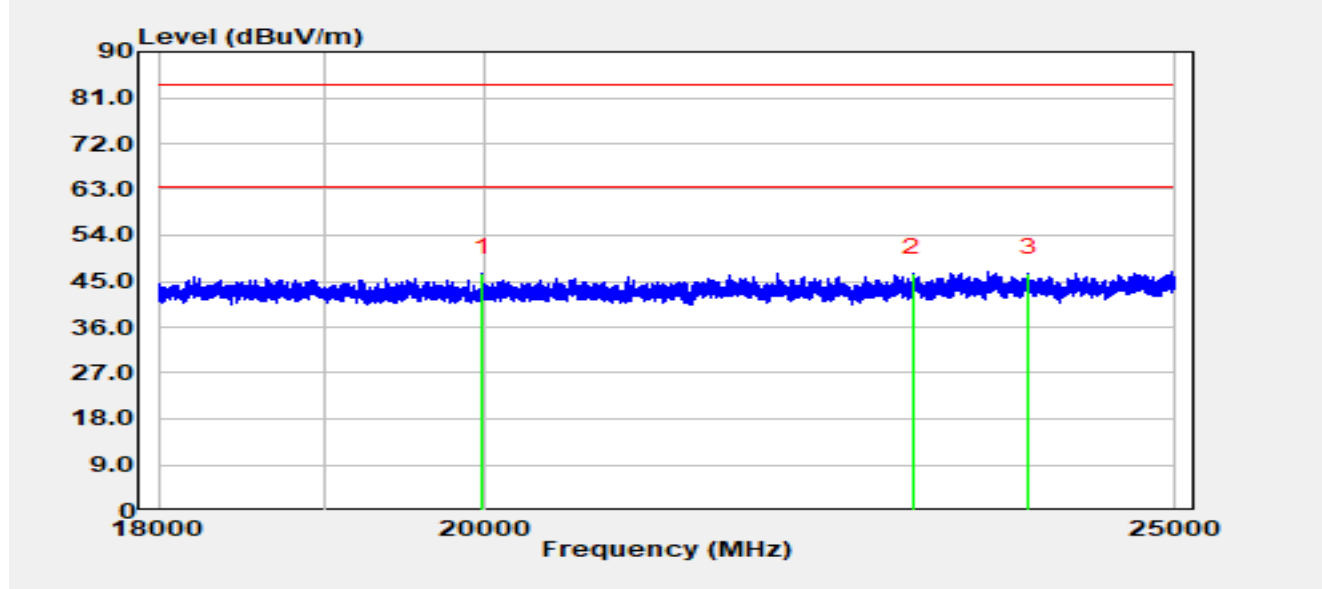
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		9442.20	33.91	15.39	49.30	-24.70	74.00	Peak
2		11111.60	22.98	15.50	38.48	-15.52	54.00	Average
3		11111.60	35.57	15.50	51.07	-22.93	74.00	Peak
4	*	17981.30	17.35	27.47	44.82	-9.18	54.00	Average
5		17981.30	34.25	27.47	61.72	-12.28	74.00	Peak

Notes:

1. “*” indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

The Worst-case Result of Radiated Emission for 18 GHz ~ 25 GHz:

Site	WZ-AC2	Test Date	2026-08-27
Temperature	23.6 °C	Humidity	44.6%
Limit	FCC_Part 15.209_RSE (1 m)	Test Engineer	Dick Shen
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by BLE 1M at 2402 MHz		

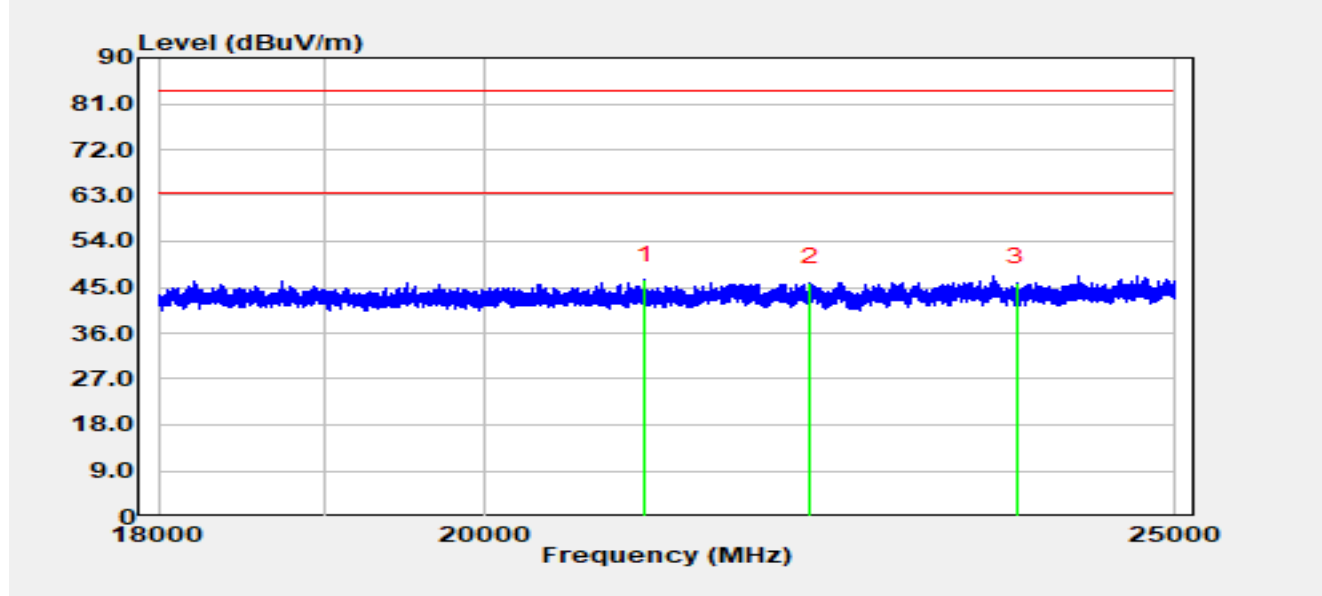


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement @1m (dBμV/m)	Measurement @3m (dBμV/m)	Margin (dB)	Limit @3m (dBμV/m)	Detector
1		19988.00	51.58	-5.03	46.55	37.01	-36.99	74.00	Peak
2		22965.80	48.78	-2.11	46.67	37.13	-36.87	74.00	Peak
3	*	23838.70	47.51	-0.82	46.69	37.15	-36.85	74.00	Peak

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
3. Measurement@3M (dBμV/m) = Measurement@1M (dBμV/m) + 20log(d1/d2) (dB), d1 = 1 m, d2 = 3 m.
4. Measurement @1M (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2026-08-27
Temperature	23.6 °C	Humidity	44.6%
Limit	FCC_Part 15.209_RSE (1 m)	Test Engineer	Dick Shen
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by BLE 1M at 2402 MHz		



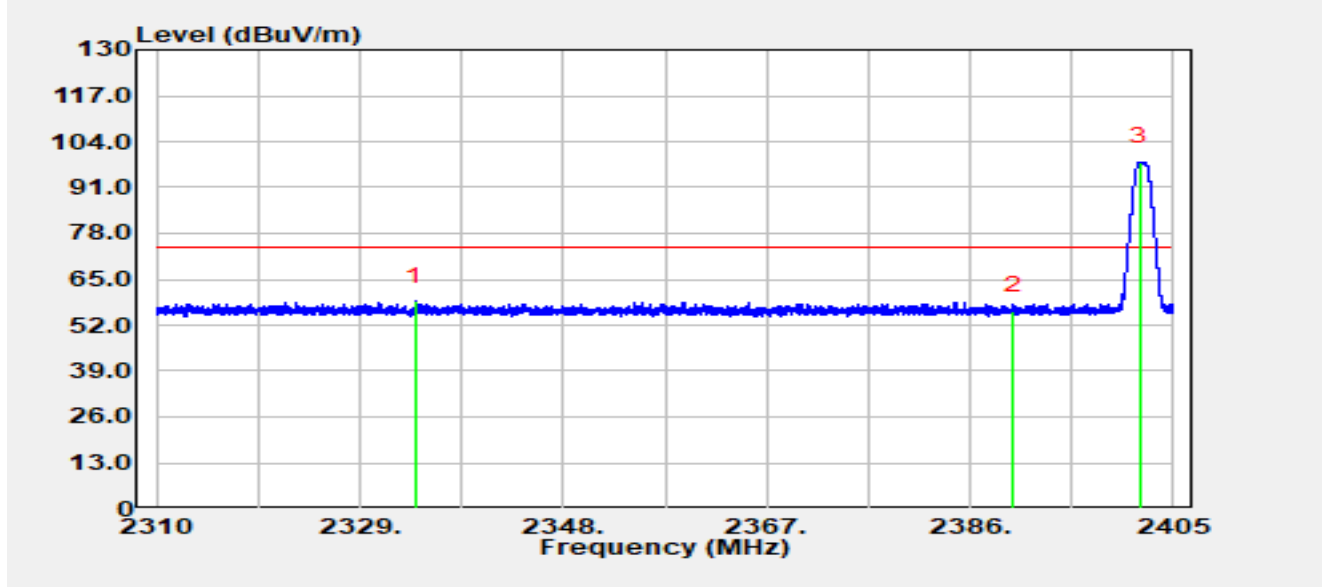
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement @1m (dBμV/m)	Measurement @3m (dBμV/m)	Margin (dB)	Limit @3m (dBμV/m)	Detector
1	*	21063.90	50.58	-4.07	46.51	36.97	-37.03	74.00	Peak
2		22216.10	49.06	-3.14	45.92	36.38	-37.62	74.00	Peak
3		23751.20	47.72	-1.74	45.99	36.45	-37.55	74.00	Peak

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
3. Measurement@3M (dBμV/m) = Measurement@1M (dBμV/m) + 20log(d1/d2) (dB), d1 = 1 m, d2 = 3 m.
4. Measurement @1M (dBμV/m) = Reading (dBμV) + C.F (dB/m).

A.7 Radiated Restricted Band Edge Test Result

Site	WZ-AC1	Test Date	2026-05-16
Temperature	24.8 °C	Humidity	58.5%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by BLE 1M at 2402 MHz		

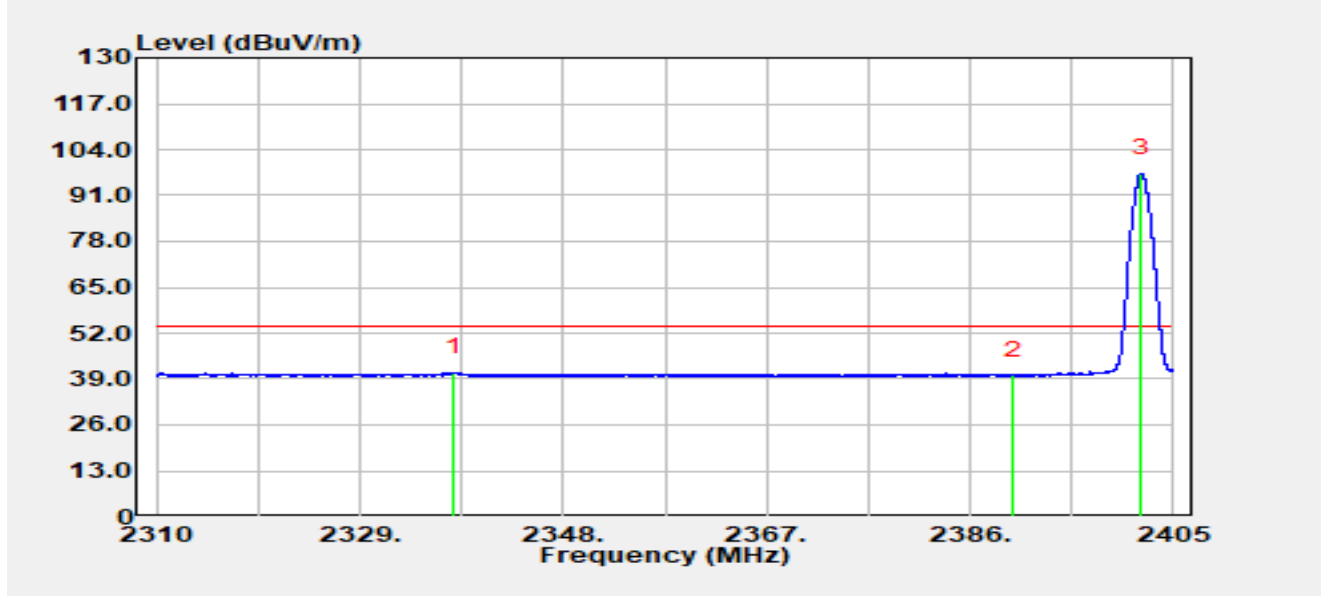


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2334.18	26.61	32.12	58.73	-15.27	74.00	Peak
2		2390.00	24.09	31.95	56.04	-17.96	74.00	Peak
3		2401.81	66.23	31.90	98.13	N/A	N/A	Peak

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2026-05-16
Temperature	24.8 °C	Humidity	58.5%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by BLE 1M at 2402 MHz		

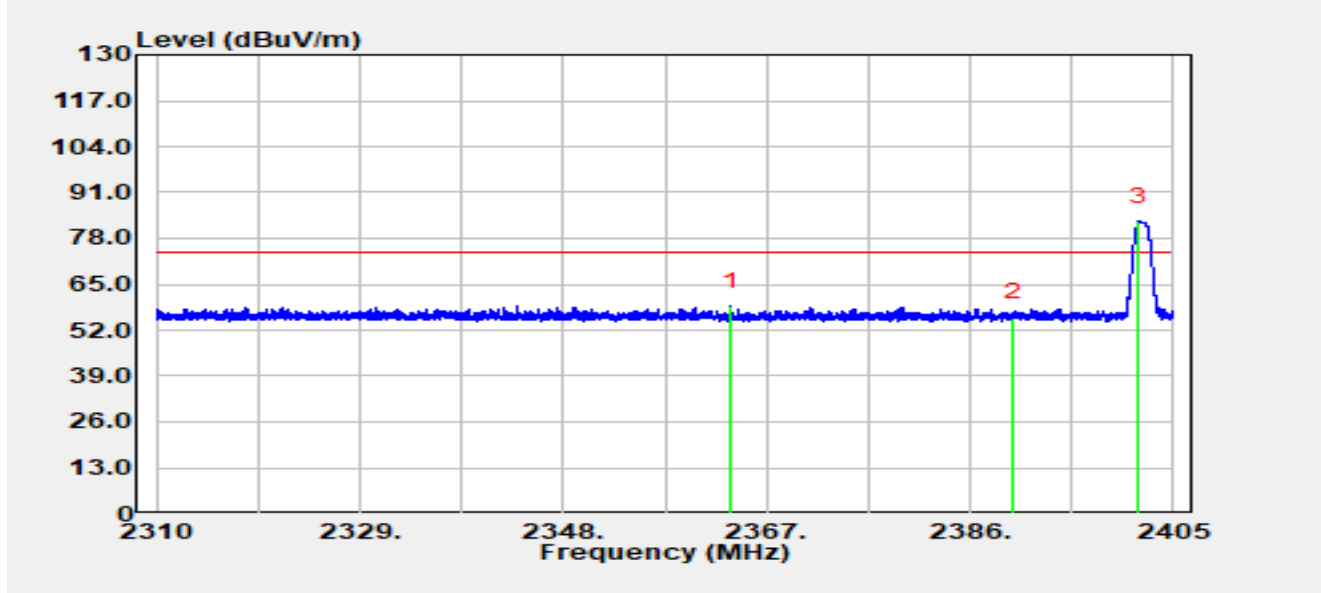


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2337.82	8.68	32.10	40.77	-13.23	54.00	Average
2		2390.00	8.08	31.95	40.03	-13.97	54.00	Average
3		2402.00	65.34	31.90	97.23	N/A	N/A	Average

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2026-05-16
Temperature	24.8 °C	Humidity	58.5%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by BLE 1M at 2402 MHz		

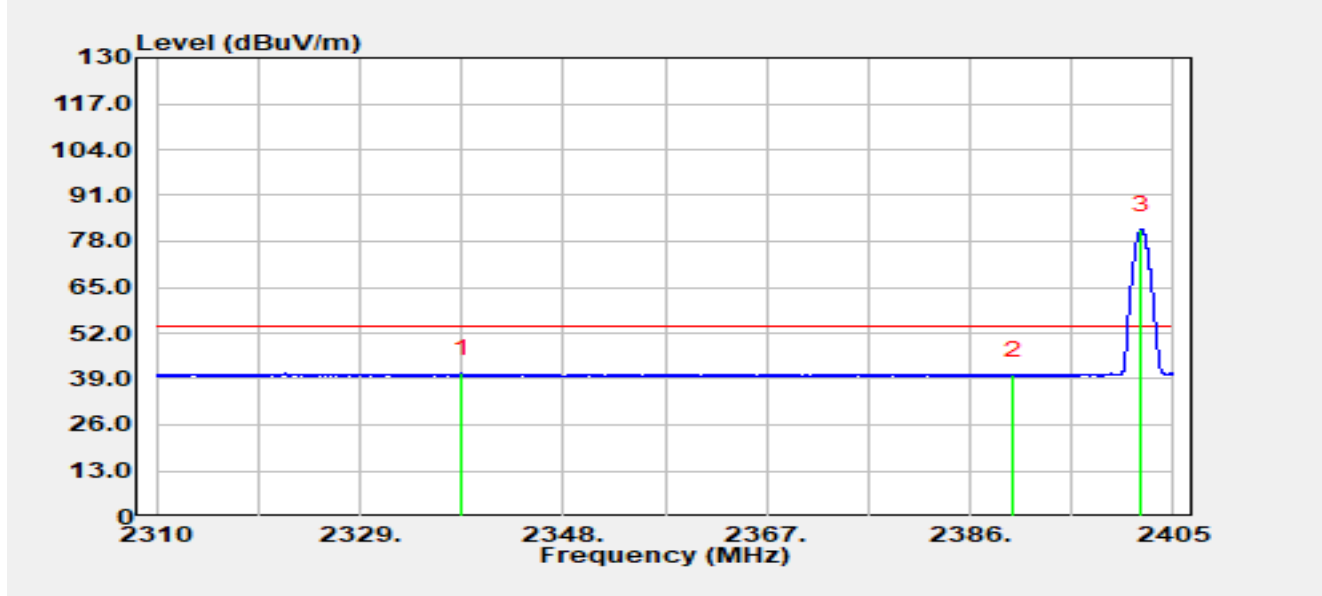


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2363.67	26.75	31.99	58.74	-15.26	74.00	Peak
2		2390.00	23.49	31.95	55.44	-18.56	74.00	Peak
3		2401.78	50.79	31.90	82.69	N/A	N/A	Peak

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2026-05-16
Temperature	24.8 °C	Humidity	58.5%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by BLE 1M at 2402 MHz		

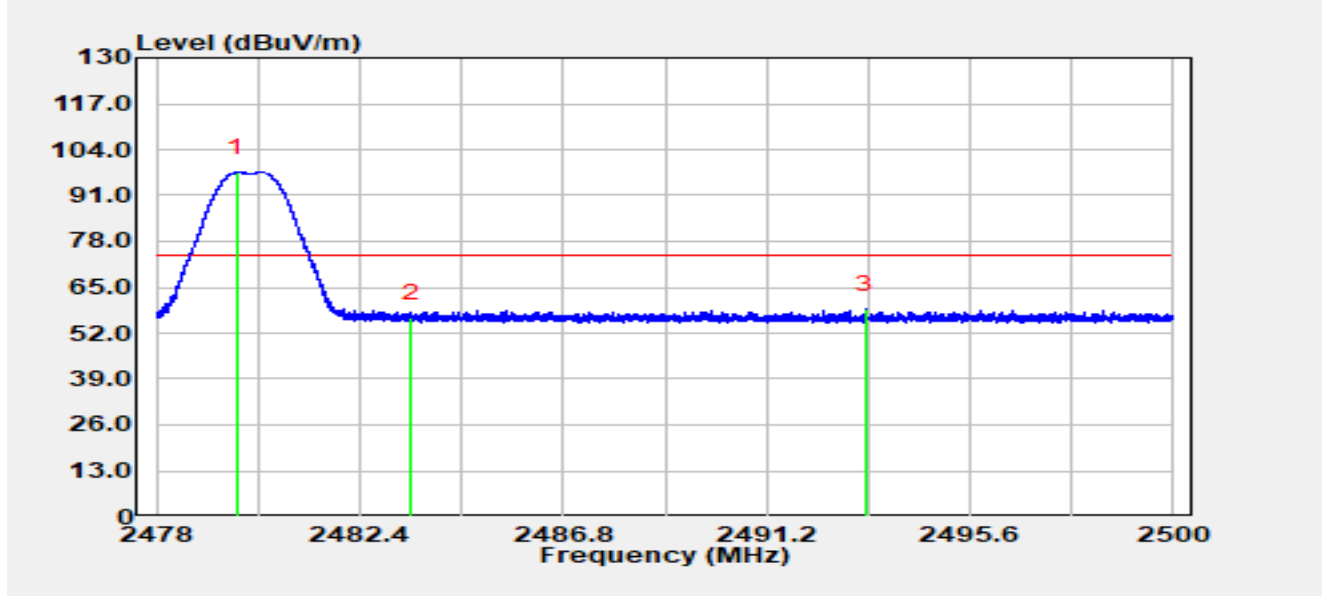


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2338.48	8.41	32.09	40.50	-13.50	54.00	Average
2		2390.00	8.08	31.95	40.03	-13.97	54.00	Average
3		2402.00	49.53	31.90	81.43	N/A	N/A	Average

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2026-05-16
Temperature	24.8 °C	Humidity	58.5%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by BLE 1M at 2480 MHz		

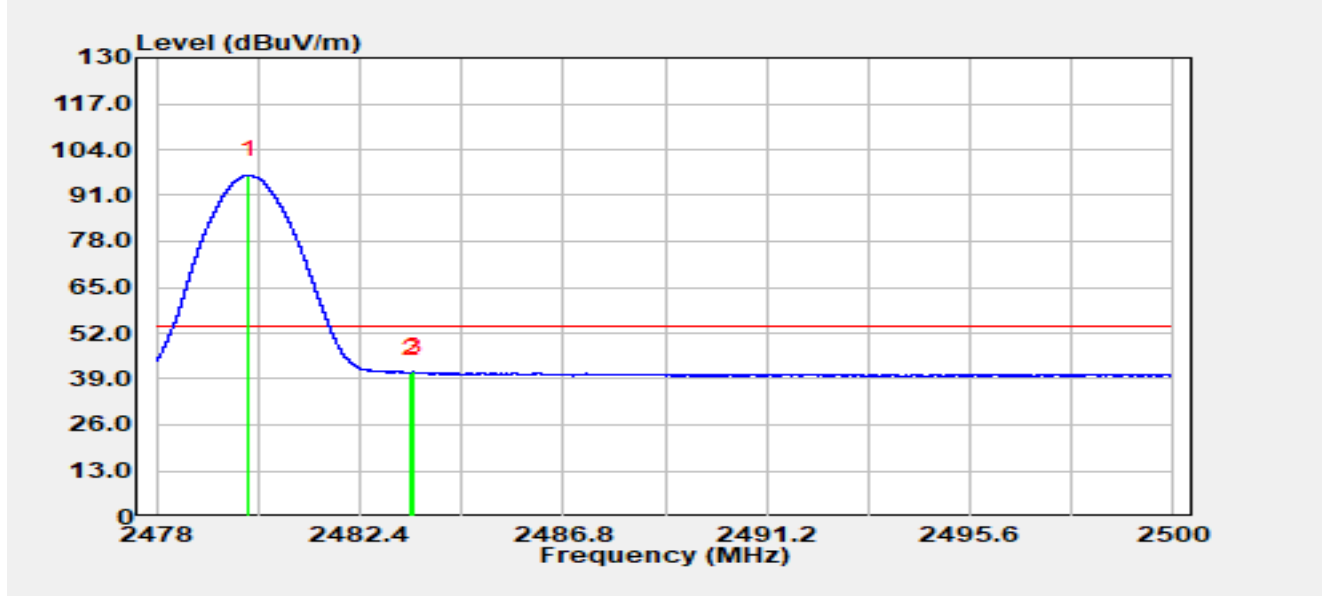


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.74	65.76	31.80	97.57	N/A	N/A	Peak
2		2483.50	24.45	31.81	56.26	-17.74	74.00	Peak
3	*	2493.33	27.02	31.83	58.84	-15.16	74.00	Peak

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2026-05-16
Temperature	24.8 °C	Humidity	58.5%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by BLE 1M at 2480 MHz		

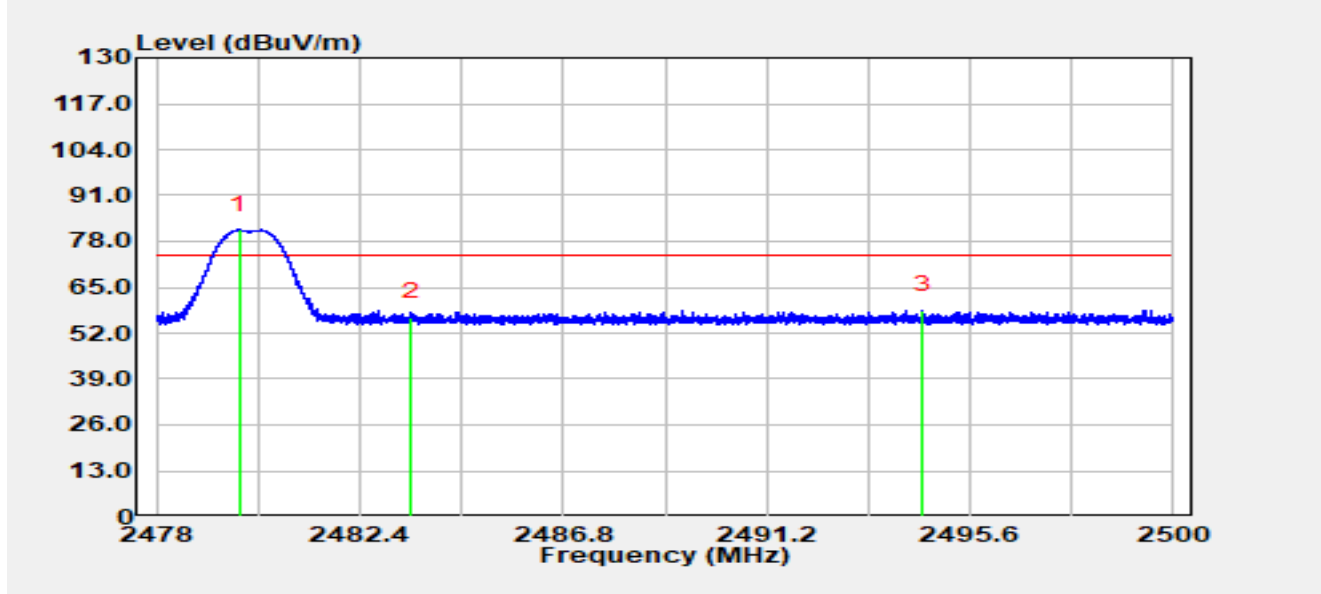


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.99	64.87	31.80	96.68	N/A	N/A	Average
2		2483.50	8.85	31.81	40.66	-13.34	54.00	Average
3	*	2483.56	9.15	31.81	40.96	-13.04	54.00	Average

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2026-05-16
Temperature	24.8 °C	Humidity	58.5%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by BLE 1M at 2480 MHz		

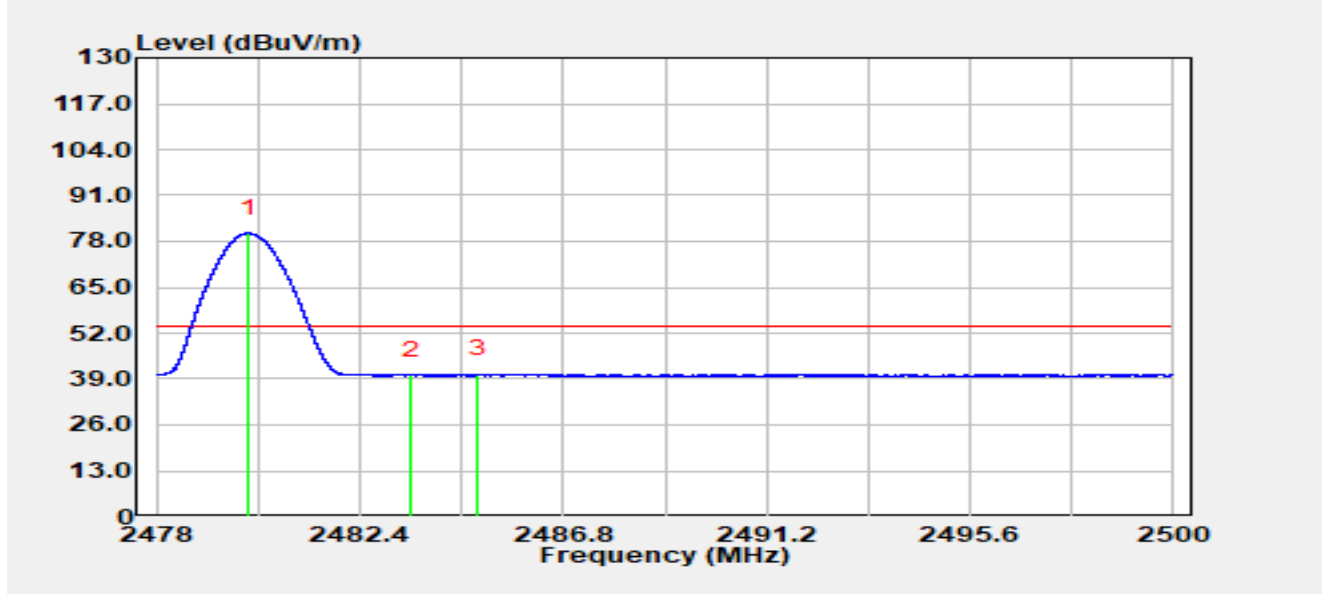


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.80	49.42	31.80	81.23	N/A	N/A	Peak
2		2483.50	24.78	31.81	56.59	-17.41	74.00	Peak
3	*	2494.58	26.65	31.83	58.48	-15.52	74.00	Peak

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2026-05-16
Temperature	24.8 °C	Humidity	58.5%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by BLE 1M at 2480 MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.00	48.47	31.80	80.27	N/A	N/A	Average
2		2483.50	8.21	31.81	40.02	-13.98	54.00	Average
3	*	2484.96	8.60	31.81	40.41	-13.59	54.00	Average

Notes:

1. "*" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Appendix B - Test Setup Photograph

Refer to “R26S1008057-UT” file.

Appendix C - EUT Photograph

Refer to "R26S1008057-UE" file.

_____ The End _____